



Coachella Valley  
Mosquito and Vector  
Control District

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

**Board of Trustees Meeting**  
**Tuesday, September 11, 2018**  
**6:00 p.m.**

**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 arrangement can be made.

1. **Call to Order** – Shelley Kaplan, President
2. **Pledge of Allegiance**
3. **Oath of Office**
4. **Roll Call**
5. **Motion to Excuse Absences**
6. **Confirmation of Agenda**
7. **Public Comment**
  - Those wishing to address the Board should complete a Public Comment Card and provide it to the Clerk of the Board.
  - Non-Agenda Items: Anyone wishing to address the Board on items not on the agenda should do so at this time. Each presentation is limited to no more than 3 minutes.
  - Agenda Items: Comments should be made when the agenda item is called. Each presentation is limited to no more than 3 minutes.
8. **Closed Session**
  - A. **Closed Session:** Conference with Legal Counsel – Anticipated Litigation – Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of Section 54956.9 (one matter).

9. **Announcements**
  - General Manager's Report – **Jeremy Wittie, M.S., General Manager**
  - Surveillance Update – **Jennifer A. Henke, M.S., Laboratory Manager**
  - Operations Update – **J. Wakoli Wekesa, Ph.D., Operations Manager**
  - Public Outreach Demonstration – **Jill Oviatt, MCDM, Public Information Manager**
10. **Board Reports**
  - A. President's Report – **President Kaplan**
    - Executive Committee (**Pg. 5**)
  - B. Finance Committee – **Treasurer Weightman**
    - Finance Committee Minutes (**Pg. 6**)
11. **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 July 10, 2018, Board Meeting (**Pg. 9**)
  - B. Correspondence (**Pg. 14**)
  - C. Approval of Expenditures for July 11-31, 2018, August 1-31, 2018, and September 1-11, 2018 (**Pg. 15**)
  - D. Informational Items:
    - District Travel (**Pg. 23**)
  - E. Department Reports (**Pg. 24**)
12. **Old Business**
  - A. Discussion and/or approval to add change order to Civil Engineering Agreement with Dudek for the Thermal Facility, in an amount not to exceed \$10,500.00 – *Budgeted; Funds Available* – **Jeremy Wittie, MS, General Manager (Pg. 49)**
13. **New Business**
  - A. Discussion and/or approval to purchase additional control products from the lowest responsible bidders or sole-source providers in the amount not to exceed \$110,000.00 from Fund #7800.01.500.028 – Field Chemical Control for control of invasive Aedes – *Not Budgeted; Funds Available* – **J. Wakoli Wekesa, PhD, Operations Manager (Pg. 51)**
  - B. Discussion and/or approval purchase fourteen (14) vehicles, in an amount not to exceed \$500,000.00, from Capital Replacement Budget Fund #8415.13.300 – utilizing the State of California Contract #1-16-23-20D – *Budgeted; Funds Available* – **Edward Prendez, Information Technology Manager (Pg. 52)**

- C. Discussion and/or approval of additional employee release day, in place of the District's Annual End of the Year Appreciation Luncheon – **Crystal Moreno, Executive Assistant (Pg. 54)**

14. **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 3 minutes.

15. **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 September 7, 2018, 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, 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 September 7, 2018.

\_\_\_\_\_  
Crystal G. Moreno, Clerk of the Board

**SECTION**  
**10**



# **BOARD REPORTS**

# COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

## Executive Committee Meeting Minutes

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**TIME:** 9:00 A.M. SEPTEMBER 4, 2018

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

**TRUSTEES PRESENT:**

Cathedral City	Shelley Kaplan	Rancho Mirage	Franz De Klotz
Indian Wells	Clive Weightman		

**ABSENT:**

La Quinta	Doug Hassett
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**OTHERS PRESENT:**

Jeremy Wittie, General Manager  
Crystal Moreno, Clerk of the Board

1. **Call to Order:** President Kaplan called the meeting to order at 9:03 A.M.
2. **Roll Call:** Roll call indicated three (3) committee members out of four (4) were present.
3. **Confirmation of Agenda**
4. **Public Comments:** None.
5. **Review of Draft September 2018 Board Agenda:**  
The draft Agenda for the June Board Meeting was reviewed by the Committee. A discussion ensued.
6. **Discussion regarding the purchase of Chromebooks for the Trustees:** General Manager Wittie proposed the use of Chromebooks for the Trustees to use and allow the District to go paperless with Board Packet materials. A discussion ensued.
7. **Discussion regarding the District's current and future Legal Counsel needs:** General Manager Wittie provided an overview of the District's past and current legal counsel history. A discussion ensued. An RFP for legal counsel services will be issued and brought to the Board in the near future.
8. **Trustee/Staff Comments:** None.
10. **Rescheduling of Next Meeting Date:** The next Executive Committee Meeting was confirmed for Monday, October 1, 2018, at 9:00 A.M.
11. **Adjournment:** The meeting was adjourned by President Kaplan at 9:23 A.M.

# COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

## Finance Committee Meeting Minutes

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**TIME:** 4:30 P.M. JULY 10, 2018

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

**TRUSTEES PRESENT:**

Cathedral City	Shelley Kaplan	County at Large	Bito Larson
Indian Wells	Clive Weightman		

**TRUSTEES ABSENT:**

Coachella	Betty Sanchez
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**OTHERS PRESENT:**

Jeremy Wittie, General Manager  
David l'Anson, Administrative Finance Manager  
Crystal Moreno, Clerk of the Board  
Veronica Montoya, Accounting Technician II

**1. Call to Order:** Treasurer Weightman called the meeting to order at 4:38p.m.

**2. Roll Call:** Roll call indicated two (2) committee members out of three (3) were present plus President Kaplan as an alternative.

**3. Confirmation of Agenda**

**4. Public Comments:** None.

**5. Items of General Consent:**

**5A – Approval of Minutes from June 12, 2018, Finance Committee Meetings:** On motion from Trustee Larson seconded by President Kaplan, and passed by unanimous vote, the Committee approved item 5A.

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

**6A. Review of Check Report from Abila MIP for the June 13, 2018 to July 6, 2018:** Reviewed by Committee.

**6B. CalCard Charges June 2018:** Reviewed by Committee

**6C. Review of June 2018 Financials:** Reviewed by Committee.

**7. Old Business:** None.

**8. New Business:** None.

**9. Confirmation of Next Meeting:** The next Finance Committee Meeting was scheduled for Tuesday, September 11<sup>th</sup>, at 4:30pm.

**10. Trustee and/or Staff Comments/Future Agenda Items:** None.

**11. Adjournment:** The meeting was adjourned by Treasurer Weightman at 5:13 p.m.

DRAFT

**SECTION**  
**11**



# **ITEMS OF GENERAL CONSENT**



# COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

## Board of Trustees Meeting Minutes

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CALLED TO ORDER: 6:00 P.M. JULY 10, 2018

LOCATION: 43420 Trader Place, Indio, CA 92201

### TRUSTEES PRESENT:

PRESIDENT:	Shelley Kaplan	Cathedral City
VICE-PRESIDENT	Doug Hassett	City of La Quinta
SECRETARY:	Franz De Klotz	County at Large
TREASURER:	Clive Weightman	Indian Wells

County at Large

Bito Larson

Rancho Mirage

Michael Monroe

### TRUSTEES ABSENT:

Coachella

Betty Sanchez

Palm Desert

Doug Walker

Desert Hot Springs

Adam Sanchez

Palm Springs

Dr. Doug Kunz

### OTHERS PRESENT:

Jeremy Wittie, General Manager

David l'Anson, Administrative Finance Manager

Anita Jones, Human Resources Manager

Jill Oviatt, Public Information Manager

Jennifer Henke, Laboratory Manager

Edward Prendez, IT Manager

Kim Hung, Vector Ecologist

Haide Alvarez, Intern

1. **Call to Order:** President Kaplan called the meeting to order at 6:00pm.
2. **Pledge of Allegiance:** Vice-President Hassett led the Pledge of Allegiance.
3. **Roll Call:** Roll call indicated six (6) Trustees out of ten (10) were present.
4. **Motion to Excuse Absences:** On motion from Vice-President Hassett seconded by Secretary De Klotz, and passed by unanimous vote, the Board of Trustees excused the absences of Trustee Kunz, A. Sanchez, B. Sanchez, and Walker.

**Ayes:** Trustees De Klotz, Hassett, Kaplan, Larson, Monroe, and Weightman.

**Noes:** None.

**Abstained:** None.

**Absent:** Trustee Kunz, A. Sanchez, B. Sanchez, and Walker.

**5. Confirmation of Agenda**

**6. Public Hearing for Benefit Assessment**

1. Open Public Hearing – **President Shelley Kaplan**
2. Resolution 2018-12 approving Engineer's Report, Confirming Diagram and Assessment, and Ordering the Levy of Assessments for fiscal year 2018-19 for the Coachella Valley Mosquito and Vector Control District Mosquito, Fire Ant and Disease Control Assessment – **David I'Anson, Administrative Finance Manager (Pg. 6)**
3. Close Public Hearing – **President Shelley Kaplan**

Rancho Mirage resident, Brad Anderson, made a public comment opposing the benefit assessment increase, especially with the District's new reserves and him being unemployed; he stated he was dead against it.

On motion from Vice-President Hassett seconded by Treasurer Weightman, and passed by unanimous vote, the Board of Trustees approved Resolution 2018-12.

**Ayes:** Trustees De Klotz, Hassett, Kaplan, Larson, Monroe, and Weightman.

**Noes:** None.

**Abstained:** None.

**Absent:** Trustee Kunz, A. Sanchez, B. Sanchez, and Walker.

**7. Public Comment:**

Rancho Mirage resident, Brad Anderson, made a public comment regarding the West Nile virus positives in Indian Wells and his request for information from the Public Information Manager. He recommended the District improve its website. Mr. Anderson also commented that he thinks more ground work should be done before using aerial treatments.

**8. Recognition**

- A. Approval of Resolution 2018-13 in recognition of Geneva Ginn for her 30 years of service to the District – **Jeremy Wittie, M.S., General Manager**

On motion from Secretary De Klotz seconded by Vice-President Hassett, and passed by unanimous vote, the Board of Trustees approved Resolution 2018-13.

**Ayes:** Trustees De Klotz, Hassett, Kaplan, Larson, Monroe, and Weightman.

**Noes:** None.

**Abstained:** None.

**Absent:** Trustee Kunz, A. Sanchez, B. Sanchez, and Walker.

**9. Closed Session**

- A. **Closed Session:** Conference with Legal Counsel – Anticipated Litigation – Significant exposure to litigation pursuant to paragraph (2) of subdivision (d) of Section 54956.9 (one matter).

Prior to going into Closed Session, Rancho Mirage resident, Brad Anderson, made a public comment inquiring if the Closed Session item was regarding him. He also commented that there has been an increase in legal fees and why was this item being held now.

Returning from Closed Session, there was no reportable action taken.

**10. Announcements:**

- General Manager's Report – **Jeremy Wittie, M.S., General Manager**
- Laboratory and Surveillance Update – **Jennifer A. Henke, M.S., Laboratory Manager**

General Manager Wittie announced that former Lead Technician Greg Alvarado was promoted to Field Supervisor, he commented on Geneva Ginn's thirty years of service, and reported on the issues the District has had with network service and email communication. General Manager Wittie also gave an update on the District's strategic plan and operations activities.

Laboratory Manager Henke provided an update on the Valley's West Nile and St. Louis encephalitis activity and truck larviciding. She also introduced and gave an update on the District's intern Haide Vela-Alvarez's work, as well as, discussed the future of the District's tank room.

Public Information Manager Oviatt gave a brief update on the District's outreach activities, attendance at rotary meetings, media stories, and that she would be doing an interview with KNEWs tomorrow.

**11. Board Reports:**

**11A – President's Report:** President Kaplan reported that he did not have anything to report.

**11B – Finance Committee: Finance Committee Met Prior to Board Meeting:** Treasurer Weightman reported that the Finance Committee met tonight to review the finances. He commented that everyone deserves a round of applause for lowering costs and that the District is looking to creating monthly budgets. He also gave kudos to Administrative Finance Manager l'Anson for his hard work and that the Board would be voting on the purchase of new budget software tonight.

**12. Items of General Consent:**

- A. Minutes for June 12, 2018, Board Meeting
- B. Correspondence
- C. Approval of Expenditures for June 13-30, 2018, and July 1-10, 2018

- D. Informational Items:
- Treasurer to Approve Release of Payment to Vendors for July
  - District Travel
  - Semi-annual research reports from the University of California at Davis, University of California at Riverside, and USDA for 2018 – **Jennifer A. Henke, M.S., Laboratory Manager**
  - Staff reports from:
    - Pacific Branch of the Entomological Society of America Conference, June 10-13, in Reno, NV
- E. Approval of Resolution 2018-14, Authorizing Attendance of Professional Development Conferences and Meetings by Members of The Board of Trustees and Employees of the District for Fiscal Year 2018-2019 – Jeremy Wittie, M.S., General Manager
- F. Approval of Resolution 2018-15 Adopting Employee Pay Schedule, in conformance with California Code of Regulations, Title 2, Sections 570.5 and 571 – Anita Jones, Human Resources Manager
- G. Approval for a paid intern for the Laboratory Department June 18 through August 24, 2018, in an amount not to exceed \$6,900.00, from Fund 5130.01.400, Payroll – Budgeted Expense – Jennifer A. Henke, MS, Laboratory Manager
- H. Approval to purchase Microix Budgeting Software in an amount not to exceed \$10,000 from Capital Equipment Replacement Fund #8415.13.210 – Budgeted Expense – David l'Anson, Administrative Finance Manager
- I. Approval to sell surplus District property – Edward Prendez, Information Technology Manager
- J. Approval to contract with Hummingbird, Inc. for aerial adulticiding and larviciding services as needed for Fiscal Year 2018-19 – Budgeted Expense – J. Wakoli Wekesa, PhD, Operations Manager
- K. Approval of Resolution 2018-16 Biennial Adoption of a Conflict of Interest Code – Crystal G. Moreno, Clerk of the Board

In regards to item 12B, Rancho Mirage resident Brad Anderson made a public comment stating that the District should publish the names of people who call and give positive feedback about staff so that it can be confirmed. You also stated that negative feedback should also be published along with how it was corrected.

On motion from Vice-President Hassett seconded by Treasurer Weightman, and passed by unanimous vote, the Board of Trustees approved the Items of General Consent.

**Ayes:** Trustees De Klotz, Hassett, Kaplan, Larson, Monroe, and Weightman.

**Noes:** None.

**Abstained:** None.

**Absent:** Trustee Kunz, A. Sanchez, B. Sanchez, and Walker.

**13. Old Business: None.**

**14. New Business:**

**14A. Discussion and/or approval to enter into Public Works contract for well destruction in an amount not to exceed \$25,000.00:** Administrative Finance Manager l'Anson provided a brief report on item 14A. A discussion ensued. The Board requested to table the item and directed Administrative Finance Manager l'Anson to bring the item back to the Board at a future meeting.

**14B. Discussion and/or approval to purchase control products from the lowest responsible bidder or sole-source providers, in the amount not to exceed \$650,000.00, from Fund #7800.02.500, Field Operations Chemical Control:**

On motion from Vice-President Hassett seconded by Treasurer Weightman, and passed by unanimous vote, the Board of Trustees approved item 14B.

**Ayes:** Trustees De Klotz, Hassett, Kaplan, Larson, Monroe, and Weightman.

**Noes:** None.

**Abstained:** None.

**Absent:** Trustee Kunz, A. Sanchez, B. Sanchez, and Walker.

**15. Trustee Comments, Requests for Future Agenda Items, Travel and/or Staff Actions:**

- President Kaplan commented that he was interested in attending the upcoming California Special District's Association Conference.

**16. Adjournment:** The meeting was adjourned by President Kaplan at 7:21 p.m.

**From:** Michael Martinez  
**Sent:** Friday, August 3, 2018 3:52 PM  
**To:** DistrictWideGroup <districtwidegroup@cvmvcd.org>  
**Subject:** Compliment call

Good afternoon,

I got a call from a resident who said **Trinidad Haro** did an amazing job at her property. She explained that he applied a recent RIFA treatment and no activity was seen. He also seen the need to provide her fly bottles to combat her fly problem. He was professional, courteous, informative and very helpful and she just wanted to thank him for his service for above and beyond his duty.

Thank you Trinidad for the professional, knowledgeable, and thoughtful service when representing the District.

Michael Martinez  
Field Supervisor

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**From:** Roberta Dieckmann  
**Sent:** Monday, August 6, 2018 9:02 AM  
**To:** DistrictWideGroup <districtwidegroup@cvmvcd.org>  
**Subject:** Compliment Call - Jess

Good morning,

I received a compliment call from a resident of La Quinta regarding a RIFA service request that **Jess Lucia** did on her property. She said Jess was on time, knowledgeable, patient and kind. She stated that Jess also gave her information on mosquitoes which was greatly appreciated.

Thanks Jess for representing the District so well!

Bobbie Dieckmann  
Field Supervisor

# Coachella Valley Mosquito and Vector Control District

Checks Issued for the Period of:  
August 9, 2018 to September 6, 2018

Check No	Payable To	Description	Check Amount	Total Amount
-	Payroll Disbursement 8/10/2018	-	181,441.60	
-	Payroll Disbursement 8/24/18	-	190,269.85	371,711.45
<b>Pre-Approved Expenditures:</b>				
<b>Cash - First Foundation Bank Checking</b>				
41808	CalPERS Financial Reporting	Professional Fees	700.00	
41809	CalPERS-Healthcare Account	Cafeteria Plan Expense 9/1/18 - 9/30/18	80,207.19	
41810	CalPERS-Retirement Account	Retirement Expense 7/22/18 - 8/18/18	49,403.09	
41811	DirecTV	Utilities 8/5/25-9/24/18	31.99	
41812	ICMA Retirement Trust	Deferred Compensation 7/22/18 - 8/18/18	17,610.82	
41813	Pitney Bowes Purchase Power	Postage	500.00	
41814	Principal Life Insurance Co.	Cafeteria Plan Expense 9/1/18-9/30/18	10,373.33	
41815	Standard Insurance Company	Cafeteria Plan Expense 9/1/18-9/30/18	3,049.11	
41816	Vision Service Plan	Cafeteria Plan Expense 9/1/18-9/30/18	896.54	
				<b>162,772.07</b>
<b>Cash - First Foundation Bank Checking</b>				
41817	Advance Imaging Systems	Contract Expense	287.74	
41818	Airgas Safety	Operating Supplies	1,687.36	
41819	Car Quest Auto Parts	Vehicle Parts & Supplies	252.44	
41820	Clairemont Equipment	Equipment Rental	179.80	
41821	CleanExcel	Contract Expense	3,235.00	
41822	C&R Wellness Works	Employee Assistance Program	264.00	
41823	Daniel's Tire Service	Vehicle Parts & Supplies	1,248.22	
41824	Desert Air Conditioning	Repair & Maintenance	256.00	
41825	Desert Feed Bag	Operating Supplies	265.22	
41826	Desert Resort Security Services	Contract Services	875.00	
41827	Dudek & Associates	Repair & Maintenance - Thermal	2,530.00	
41828	Eisenhower Occupational Health Services	Physician Fees	850.00	
41829	Government Finance Officers Association	Membership Dues	160.00	
41830	Jernigan's Sporting Goods	Safety Expense	838.90	
41831	Kwik Kleen Of The Desert	Offsite Maintenance & Repair	583.00	
41832	Liebert Cassidy Whitmore	Attorney Fees	6,552.67	
41833	Moreno, Crystal	Tuition Reimbursement	1,018.48	
41834	NAPA Auto & Truck Parts	Specialty Vehicle Parts & Supplies	417.11	
41835	NFP Accounting Technologies	Capital Outlay	70.51	
41836	Puretec Industrial Water	Operating Supplies	272.55	
41837	Refrigeration Supplies Distributor	Repair & Maintenance	205.28	
41838	Rutan & Tucker	Attorney Fees	3,616.19	
41839	Salton Sea Air Service	Aerial Applications	6,475.00	
41840	SoCo Group	Motor Fuel & Oils	11,967.92	
41841	TCI Thermal Combustion Innovators	Operating Supplies	405.32	
41842	UPS	Postage	128.30	
41843	U.S. Foods	Chemical Control	835.00	
41844	Valley Lock & Safe	Repair & Maintenances	39.25	
41845	Vector Control Joint Powers Agency	Offsite Vehicle Maintenance & Repair	951.00	
41846	Waxie Sanitary Supply	Maintenance Supplies	28.54	
<b>Cash - First Foundation Bank Check Run Total to be Approved</b>				<b>46,495.80</b>
<b>Total Expenditures: August 9, 2018 to September 6, 2018</b>				<b>580,979.32</b>

Shelley Kaplan, President

Clive Weightman, Treasurer

Coachella Valley Mosquito and Vector Control District  
FINANCES AT A GLANCE  
ALL FUNDS COMBINED  
For the Month Ended August 31, 2018

	Beginning of the Month	Change During the Month	End of the Month
INVESTMENTS	\$ 12,293,242	\$ (1,270,846)	\$ 11,022,396
CASH	\$ (440,598)	550,365	\$ 109,767
INVESTMENTS & CASH	\$ 11,852,644	\$ (720,481)	\$ 11,132,163
CURRENT ASSETS	\$ 2,079,034	(65,988)	2,013,046
FIXED ASSETS	\$ 10,725,824	-	10,725,824
OTHER ASSETS	\$ 5,111,294	-	5,111,294
TOTAL ASSETS	<u>\$ 29,768,796</u>	<u>\$ (786,469)</u>	<u>\$ 28,982,327</u>
TOTAL LIABILITIES	\$ 5,790,749	\$ 4,889	\$ 5,795,638
TOTAL DISTRICT EQUITY	\$ 23,978,047	(791,358)	23,186,689
TOTAL LIABILITIES & EQUITY	<u>\$ 29,768,796</u>	<u>\$ (786,469)</u>	<u>\$ 28,982,327</u>
RECEIPTS		\$ 49,825	
CASH DISBURSEMENTS			
Payroll	\$ 371,711		
General Admin	\$ 398,593		
Total Cash Disbursements		\$ (770,305)	
NON-CASH ENTRIES:		\$ (65,989)	
Accrual Modifications -			
Changes in A/P, A/R & Pre-paid insurance			
Change during Month - Excess of Cash over Receipts & Non-Cash Adjustments		<u>\$ (786,469)</u>	



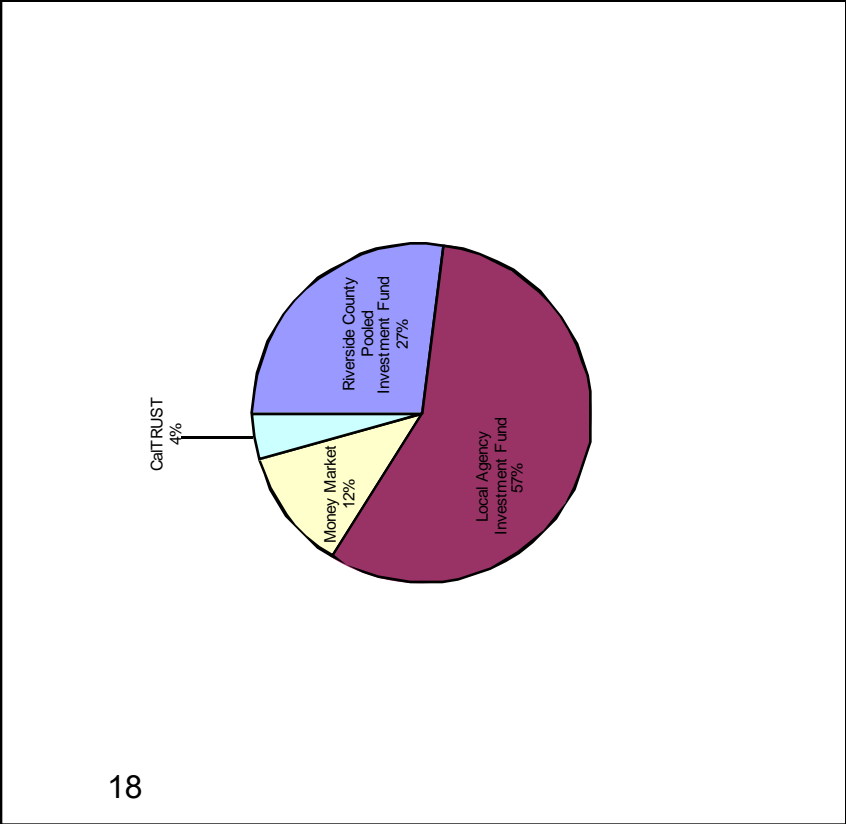
**CVMVCD**  
Cash Journal - deposits  
From 8/1/2018 Through 8/31/2018

Document N...	ID	Payee/Recipient Name	Transaction Description	Effective ...	Deposits
010	RIVERSIDEC...	Riverside County	Deposit 8/9/2018 - VCJPA & Riverside ...	8/9/2018	34,868.18
011	VCJPA	Vector Control Joint Powers Agency	Deposit 8/9/2018 - VCJPA & Riverside ...	8/9/2018	108.23
CD00123	PAYMAC	Paymac Inc	August Receipts	8/14/2018	9,648.71
CD00125	SYNGENTAC...	Syngenta Corp Protection LLC	August Receipts - Pesticide Rebate	8/28/2018	192.00
CD00126	USBANK	US Bank	August Receipts - Calcard Rebate	8/28/2018	4,806.95
CD00127	FIRSTFOUN...	First Foundation Bank	August Receipts - Bank Interest	8/31/2018	168.72
CD00124			August Receipts - Refund of Teamster...	8/31/2018	32.00
Report Total					49,824.79

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT									
INVESTMENT FUND BALANCES AS OF AUGUST 31, 2018									
INSTITUTION	IDENTIFICATION	Issue Date	Maturity Date	YIELD	General Fund	Thermal Capital Fund	Capital Equipment Replacement Fund	Capital Facility Replacement Fund	BALANCE
Investment Fund Balance									
LAIF Riverside County CalTRUST First Foundation	Common Investments			2.00%	7,440,282	476,386	1,605,728	1,500,000	\$ 11,022,396
	Funds 51105 & 51115			1.92%	4,235,123	271,166	914,005	853,823	\$ 6,274,118
	Medium Tem Fund			1.49%	2,014,129	128,961	434,680	406,059	\$ 2,983,829
	Market Rate			0.25%	331,841	21,247	71,617	66,901	\$ 491,606
					859,188	55,012	185,426	173,217	\$ 1,272,843
Total Investments					7,440,282	476,386	1,605,728	1,500,000	\$ 11,022,396

PORTFOLIO COMPOSITION AS OF AUGUST 31, 2018

WEIGHTED YIELD 1.75%



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  
From 7/1/2018 Through 8/31/2018

	<b>Budget - Original</b>	<b>Current Year Actual</b>	<b>Budget Variance</b>	<b>% Y-T-D</b>
<b>Revenues</b>				
4000 Property Tax - Current Secured	<b>3,733,045.00</b>	-	(3,733,045.00)	0.0%
4010 Property Tax - Curr. Supplmntl	<b>72,202.00</b>	-	(72,202.00)	0.0%
4020 Property Tax - Curr. Unsecured	<b>161,854.00</b>	-	(161,854.00)	0.0%
4030 Homeowners Tax Relief	<b>42,732.00</b>	-	(42,732.00)	0.0%
4070 Property Tax - Prior Supp.	<b>28,660.00</b>	-	(28,660.00)	0.0%
4080 Property Tax - Prior Unsecured	<b>9,902.00</b>	-	(9,902.00)	0.0%
4090 Redevelopment Pass-Thru	<b>4,275,025.00</b>	-	(4,275,025.00)	0.0%
4520 Interest Income - LAIF/CDs	<b>100,000.00</b>	288.23	(99,711.77)	0.3%
4530 Other Miscellaneous Receipts	<b>63,000.00</b>	5,139.18	(57,860.82)	8.2%
4551 Benefit Assessment Income	<b>1,996,366.00</b>	-	(1,996,366.00)	0.0%
<b>Total Revenues</b>	<b>10,482,786.00</b>	<b>5,427.41</b>	<b>(10,477,358.59)</b>	<b>0.1%</b>
<b>Expenditures</b>				
<b>Payroll Expenses</b>				
5101 Payroll - FT	<b>4,686,031.00</b>	598,770.95	4,087,260.05	12.8%
5102 Payroll Seasonal	<b>208,460.00</b>	37,211.26	171,248.74	17.9%
5103 Temporary Services	<b>6,900.00</b>	6,900.00	0.00	100.0%
5105 Payroll - Overtime Expense	<b>41,700.00</b>	1,443.25	40,256.75	3.5%
5150 CalPERS State Retirement	<b>566,460.00</b>	195,277.80	371,182.20	34.5%
5155 Social Security Expense	<b>302,827.00</b>	40,556.15	262,270.85	13.4%
5165 Medicare Expense	<b>70,821.00</b>	9,484.92	61,336.08	13.4%
5170 Cafeteria Plan	<b>1,031,051.00</b>	171,928.30	859,122.70	16.7%
5172 Retiree Healthcare	<b>342,420.00</b>	36,458.12	305,961.88	10.6%
5180 Deferred Compensation	<b>101,030.00</b>	16,944.80	84,085.20	16.8%
5195 Unemployment Insurance	<b>36,405.00</b>	644.87	35,760.13	1.8%
<b>Total Payroll Expenses</b>	<b>7,394,105.00</b>	<b>1,115,620.42</b>	<b>6,278,484.58</b>	<b>15.1%</b>
<b>Administrative Expenses</b>				
5250 Tuition Reimbursement	<b>15,000.00</b>	1,197.74	13,802.26	8.0%
5300 Employee Incentive	<b>6,000.00</b>	-	6,000.00	0.0%
5301 Employee Support	<b>4,000.00</b>	648.23	3,351.77	16.2%
5302 Wellness	<b>600.00</b>	-	600.00	0.0%
5305 Employee Assistance Program	<b>3,200.00</b>	540.00	2,660.00	16.9%
6000 Property & Liability Insurance	<b>79,895.00</b>	23,084.68	56,810.32	28.9%
6001 Workers' Compensation Insurance	<b>85,730.00</b>	35,896.00	49,834.00	41.9%
6050 Dues & Memberships	<b>25,480.00</b>	16,495.50	8,984.50	64.7%
6060 Reproduction & Printing	<b>21,750.00</b>	-	21,750.00	0.0%
6065 Recruitment/Advertising	<b>6,500.00</b>	1,033.80	5,466.20	15.9%
6070 Office Supplies	<b>14,980.00</b>	726.47	14,253.53	4.8%
6075 Postage	<b>8,500.00</b>	733.58	7,766.42	8.6%
6080 Computer & Network Systems	<b>5,000.00</b>	1,045.86	3,954.14	20.9%
6085 Bank Service Charges	<b>200.00</b>	-	200.00	0.0%
6090 Local Agency Formation Comm.	<b>1,200.00</b>	1,128.89	71.11	94.1%
6095 Professional Fees	<b>53,000.00</b>	4,048.82	48,951.18	7.6%
6100 Attorney Fees	<b>90,000.00</b>	10,168.86	79,831.14	11.3%
6105 Legal Services / Filing Fees	<b>1,000.00</b>	-	1,000.00	0.0%
6106 HR Risk Management	<b>4,500.00</b>	4,500.00	0.00	100.0%
6110 Conference Expense	<b>48,800.00</b>	420.00	48,380.00	0.9%
6115 In-Lieu	<b>13,200.00</b>	2,000.00	11,200.00	15.2%

CVMVCD  
Statement of Revenue and Expenditures  
From 7/1/2018 Through 8/31/2018


		<b>Budget -</b>	Current Year		
		<b>Original</b>	Actual	Budget Variance	% Y-T-D
6120	Trustee Support	<b>4,000.00</b>	530.59	3,469.41	13.3%
6200	Meetings Expense	<b>2,000.00</b>	-	2,000.00	0.0%
6210	Promotion & Education	<b>26,000.00</b>	535.68	25,464.32	2.1%
6220	Public Outreach Advertising	<b>46,000.00</b>	-	46,000.00	0.0%
6500	Benefit Assessment Expenses	<b>96,000.00</b>	-	96,000.00	0.0%
	<b>Total Administrative Expenses</b>	<b>662,535.00</b>	104,734.70	557,800.30	15.8%
	<b>Utilities</b>				
6400	Utilities	<b>105,000.00</b>	7,334.08	97,665.92	7.0%
6410	Telecommunications	<b>11,000.00</b>	1,065.30	9,934.70	9.7%
	<b>Total Utilities</b>	<b>116,000.00</b>	8,399.38	107,600.62	7.2%
	<b>Operating</b>				
7000	Uniform Expense	<b>26,650.00</b>	1,890.94	24,759.06	7.1%
7050	Safety Expense	<b>23,350.00</b>	780.51	22,569.49	3.3%
7100	Physican Fees	<b>4,000.00</b>	850.00	3,150.00	21.3%
7150	IT Communications	<b>40,000.00</b>	2,276.78	37,723.22	5.7%
7200	Household Supplies	<b>4,000.00</b>	515.81	3,484.19	12.9%
7300	Repair & Maintenance	<b>42,000.00</b>	1,242.62	40,757.38	3.0%
7310	Maintenance & Calibration	<b>6,000.00</b>	-	6,000.00	0.0%
7350	Permits, Licenses & Fees	<b>10,850.00</b>	2,693.10	8,156.90	24.8%
7400	Vehicle Parts & Supplies	<b>32,000.00</b>	5,930.38	26,069.62	18.5%
7420	Offsite Vehicle Maint & Repair	<b>12,500.00</b>	4,091.50	8,408.50	32.7%
7450	Equipment Parts & Supplies	<b>16,500.00</b>	1,603.00	14,897.00	9.7%
7500	Small Tools Furniture & Equip	<b>1,700.00</b>	-	1,700.00	0.0%
7550	Lab Supplies & Expense	<b>30,500.00</b>	3,012.32	27,487.68	9.9%
7570	Green Pool Surveillance	<b>25,000.00</b>	-	25,000.00	0.0%
7575	Surveillance	<b>45,500.00</b>	3,441.76	42,058.24	7.6%
7600	Staff Training	<b>72,000.00</b>	17,108.38	54,891.62	23.8%
7650	Equipment Rental	<b>1,000.00</b>	179.80	820.20	18.0%
7675	Contract Services	<b>131,232.00</b>	15,399.50	115,832.50	11.7%
7700	Motor Fuel & Oils	<b>73,200.00</b>	11,967.92	61,232.08	16.3%
7750	Field Supplies	<b>9,400.00</b>	1,777.15	7,622.85	18.9%
7800	Control Products	<b>785,000.00</b>	166,454.30	618,545.70	21.2%
7850	Aerial Applications	<b>114,500.00</b>	12,750.00	101,750.00	11.1%
8415	Capital Outlay	<b>20,650.00</b>	-	20,650.00	0.0%
8510	Research Projects	<b>150,000.00</b>	-	150,000.00	0.0%
9000	Contingency Expense	<b>150,000.00</b>	-	150,000.00	0.0%
	<b>Total Operating</b>	<b>1,827,532.00</b>	253,965.77	1,573,566.23	13.9%
	<b>Contribution to Capital Reserves</b>				
8900	Transfer to other funds	<b>482,614.00</b>	80,435.66	402,178.34	16.7%
	<b>Total Contribution to Capital Reserves</b>	<b>482,614.00</b>	80,435.66	402,178.34	16.7%
	<b>Total Expenditures</b>	<b>10,482,786.00</b>	1,563,155.93	8,919,630.07	14.9%
	<b>Net revenue over/(under) expenditures</b>	<b>0.00</b>	(1,557,728.52)		

**CVMVCD**  
Balance Sheet  
As of 8/31/2018  
(In Whole Numbers)

		<u>Current Year</u>
<b>Assets</b>		
Cash and Investments		
1000	Cash - Investments	11,022,396
1016	Petty Cash	500
1017	Petty Cash Checking	1,500
1025	First Foundation - General	23,779
1026	First Foundation - Payroll	83,988
	Total Cash and Investments	<u>11,132,163</u>
Current Assets		
1050	Accounts Receivable	138,130
1085	Inventory	532,129
1168	Prepaid Insurance	303,519
1169	Deposits	1,039,269
	Total Current Assets	<u>2,013,046</u>
Fixed Assets		
1300	Equipment/Vehicles	1,870,816
1310	Computer Equipment	417,111
1311	GIS Computer Systems	301,598
1320	Office Furniture & Equipment	1,218,125
1330	Land	417,873
1335	Oleander Building	5,665,862
1336	Signage	23,651
1340	Structures & Improvements	3,026,126
1341	Bio Control Building	6,963,768
1342	Bio Control Equip/Furn	32,034
1399	Accumulated Depreciation	(9,211,140)
	Total Fixed Assets	<u>10,725,824</u>
Other Assets		
1520	Resources to Be Provided	3,514,102
1525	Deferred Outflows of Resources	1,284,772
1530	Deferred Outflows of Resources - OPEB	312,420
1900	Due to/from	0
	Total Other Assets	<u>5,111,294</u>
	Total Assets	<u><u>28,982,327</u></u>
<b>Liabilities</b>		
Short-term Liabilities		
Accounts Payable		
2015	Credit Card Payable	154,059
2020	Accounts Payable	109,436
2030	Accrued Payroll	(4,276)
2035	Fundware AP Clearing	1
2040	Payroll Taxes Payable	(1,227)

**CVMVCD**  
Balance Sheet  
As of 8/31/2018  
(In Whole Numbers)

		<b>Current Year</b>
2175	Claims/Judgements Payable	74
2185	Employee Dues	2,492
	Total Accounts Payable	260,558
	Total Short-term Liabilities	260,558
	Long-term Liabilities	
2100	Pollution Remediation Obligati	2,100,000
2200	Net Pension Liability	1,763,285
2210	Deferred Inflows of Resources	131,145
2300	Net OPEB Liaibility	877,253
2500	Compensated Absences Payable	662,567
	Total Long-term Liabilities	5,534,250
	Total Liabilities	5,794,808
	Fund Balance	
	Non Spendable Fund Balance	
3920	Investment in Fixed Assets	10,698,793
3945	Reserve for Prepaids & Deposit	1,373,799
3960	Reserve for Inventory	532,129
	Total Non Spendable Fund Balance	12,604,721
	Committed Fund Balance	
3965	Public Health Emergency	4,103,640
	Total Committed Fund Balance	4,103,640
	Assigned Fund Balance	
3910	Reserve for Operations	4,500,000
3925	Reserve for Future Healthcare Liabilities	877,253
3955	Thermal Remediation Fund	463,724
3970	Reserve for IT Replacement	277,991
3971	Reserve for Vehicle Replacement	344,376
	Total Assigned Fund Balance	6,463,344
	Unassigned Fund Balance	
3900	Fund Equity	1,513,538
3999	P&L Summary	(815)
	Total Unassigned Fund Balance	1,512,723
	Current YTD Net Income	(1,496,910)
	Total Current YTD Net Income	(1,496,910)
	Total Fund Balance	23,187,519
	Total Liabilities and Net Assets	28,982,327

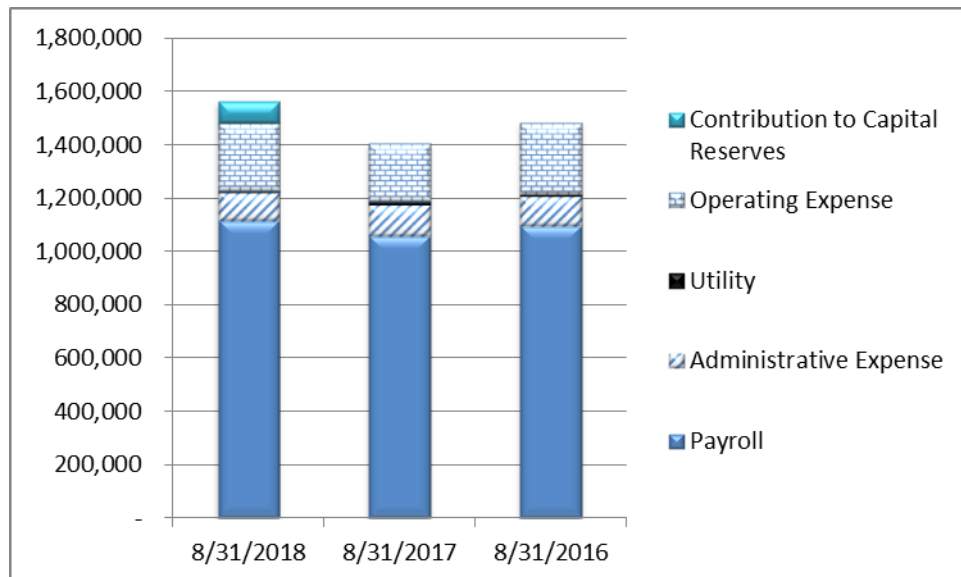
	<p><b>Coachella Valley Mosquito and Vector Control District</b></p> <p><b>Staff Report</b></p>	<p><b>September 11, 2018</b></p>
<p><b>Agenda Item:</b> Informational Item</p> <p>District Travel – <b>Crystal G. Moreno, Executive Assistant/Clerk of the Board</b></p>		
<p><b>Background:</b></p> <p><b>September 24-27, 2018: CSDA Annual Conference (Indian Wells, CA)</b> ~ “The CSDA Annual Conference &amp; Exhibitor Showcase is the one conference special district Leaders can't afford to miss! It is the most densely packed educational and networking experience available to special districts. Come together with other special district leaders from across the state to meet with industry suppliers, hear from the best in special district-specific topics with over thirty breakout session options, network with your peers and more at the leadership conference for special districts.”</p> <p><b>Requests to attend must be made by the SEPTEMBER 2018 BOARD MEETING.</b></p>		

## FINANCE

The financial reports show the balance sheet, receipts, and the revenue and expenditure reports for the month ending August 31, 2018. The revenue and expenditure report shows that the operating budget expenditure for July 1, 2018 to August 31, 2018 is \$1,563,156; total revenue is \$5,427 resulting in excess revenue over (under) expenditure for the year to August 31, 2018 of (\$1,557,729).

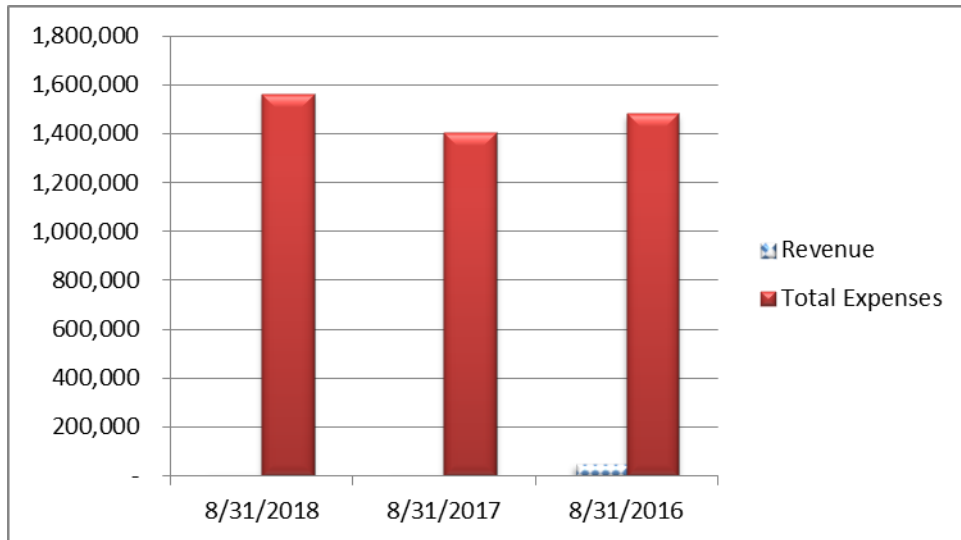
### THREE YEAR FINANCIALS

	8/31/2018	8/31/2017	8/31/2016
<b>Total Revenue</b>	<b>5,427</b>	<b>2,961</b>	<b>43,867</b>
Expenses			
Payroll	1,115,620	1,059,884	1,096,331
Administrative Expense	104,735	115,025	111,583
Utility	8,399	11,704	10,662
Operating Expense	253,966	218,247	263,450
Contribution to Capital Reserves	80,436		
<b>Total Expenses</b>	<b>1,563,156</b>	<b>1,404,860</b>	<b>1,482,026</b>
<b>Profit (Loss)</b>	<b>(1,557,729)</b>	<b>(1,401,899)</b>	<b>(1,438,159)</b>
Capital Expenses			



**Figure 1 Three Year Expenditure**

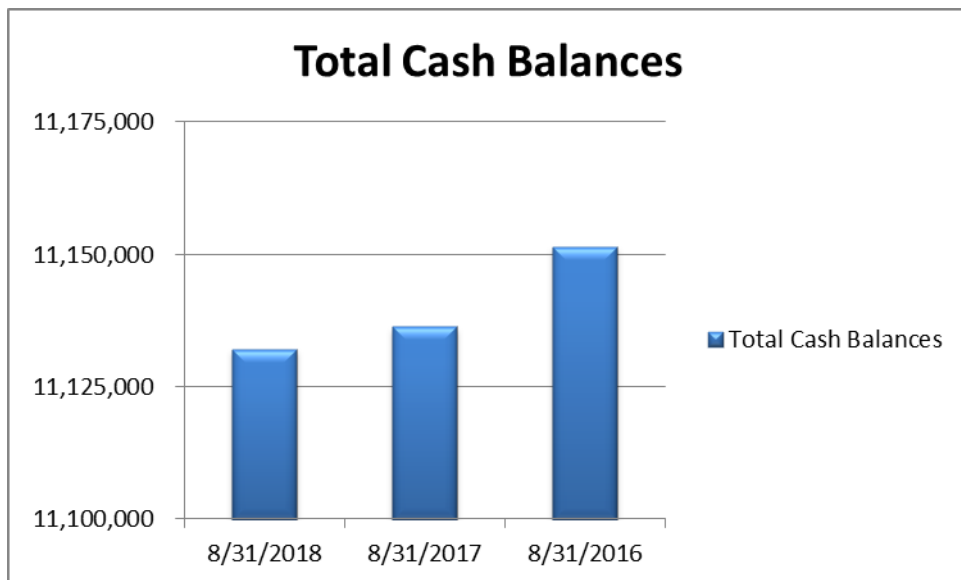




**Figure 2 Three Year Revenue & Expenditure**

### THREE YEAR CASH BALANCE

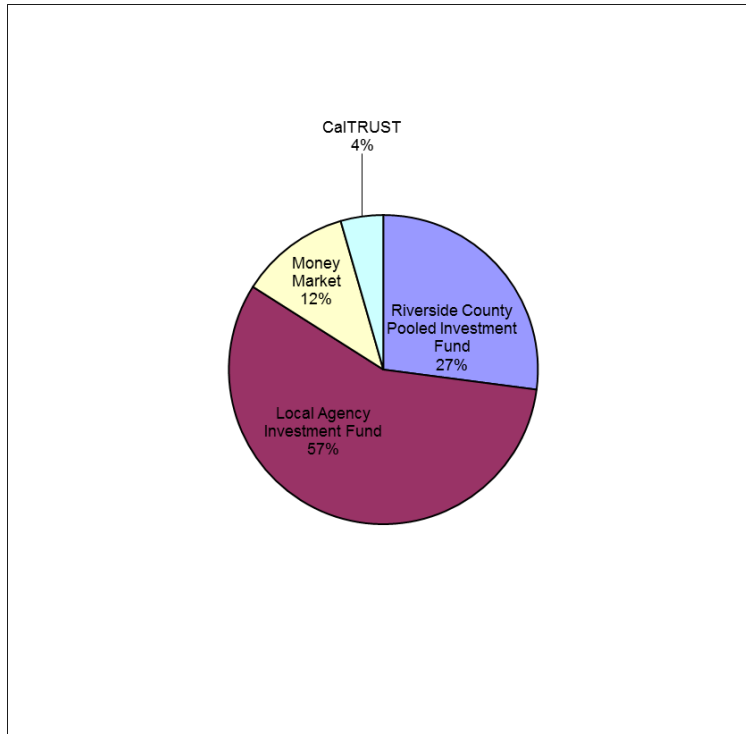
CASH BALANCES	8/31/2018	8/31/2017	8/31/2016
Investment Balance	11,022,396	11,011,264	11,079,529
Checking Accounting	23,779	11,967	6,217
Payroll Account	83,988	111,174	63,777
Petty Cash	2,000	2,000	2,000
<b>TOTAL CASH BALANCES</b>	<b>11,132,163</b>	<b>11,136,405</b>	<b>11,151,523</b>



**Figure 3 Cash Balances**

### DISTRICT INVESTMENT PORTFOLIO 8/31/2018

The District's investment fund balance for the period ending August 31, 2018 is \$11,022,396. The portfolio composition is shown in the pie chart. Local Agency Investment Fund (LAIF) accounts for 57% of the District's investments; the Riverside County Pooled Investment Fund is 27% of the total. The LAIF yield for the end of August was 2.00% and the Riverside County Pooled Investment Fund was 1.92%; this gives an overall weighted yield for District investments of 1.75%.



**Figure 4 Investment Portfolio 8-31-18**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2011	0.66	0.67	0.66	0.64	0.65	0.61	0.60	0.56	0.56	0.54	0.53	0.52
2012	0.53	0.51	0.50	0.50	0.47	0.46	0.47	0.43	0.43	0.41	0.39	0.34
2013	0.33	0.34	0.33	0.32	0.32	0.32	0.32	0.32	0.31	0.30	0.32	0.29
2014	0.27	0.30	0.33	0.31	0.30	0.30	0.34	0.37	0.35	0.37	0.35	0.39
2015	0.37	0.40	0.36	0.35	0.37	0.39	0.41	0.41	0.43	0.43	0.44	0.46
2016	0.50	0.55	0.57	0.56	0.54	0.61	0.57	0.63	0.64	0.63	0.69	0.73
2017	0.74	0.75	0.81	0.91	0.92	0.99	1.04	1.00	1.07	1.10	1.13	1.20
2018	1.22	1.32	1.48	1.55	1.69	1.72	1.73	1.75				

**Figure 5 District Investments Weighted Yield**

## Human Resources

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### **Recruitment**

Recruitment has begun for the positions of Executive Assistant/Clerk of the Board, Vector Control Technician II and Vector Control Technician Trainee. Recruitment continues for the position of Seasonal Vector Control Operator.

### **New Employees**

The following Seasonal employees began work in July, August or September:

*Jessica Arellano*  
*Manuel De La Torre*  
*Marina Espejo*  
*Ryan Gonzalez*  
*Arnold Khakali*  
*Jose Maldonado*  
*Jesse Mendez*

### **Job Changes**

*Gregorio Alvarado*, Lead Vector Control Technician, has been promoted to the position of Field Supervisor effective June 25, 2018. Gregorio received an Associate of Science Degree in Natural Resources from College of the Desert. Gregorio has worked at the District for twelve years.

*Gonzalo Valadez*, Vector Control Technician II, has been promoted to the position of Lead Vector Control Technician effective August 13, 2018. Gonzalo has worked at the District for thirteen years.

*Crystal Moreno*, Executive Assistant/Clerk of the Board, has been appointed to the position of Human Resources Specialist effective September 17, 2018. Crystal received her Bachelor's Degree in Business Management with a Certificate of Concentrated Study in Human Resources Management from Champlain College. Crystal has worked at the District for thirteen years.

### **Open Enrollment**

Open Enrollment for the District's health plans will begin September 10 and end October 5, 2018. Open enrollment is an opportunity to add or make changes to current benefit plans. Changes become effective January 1, 2019.

### **Employee Donations**

District employees filled a large donation box with contributions of school supplies for the Coachella Valley Rescue Mission's annual Backpack Bonanza giveaway drive. The voluntary donations of backpacks, paper, pencils, notebooks, binders, erasers, glue, rulers, etc., were handed out at the Rescue Mission on August 11th. This is the fourth year that the District has participated in collecting school supplies for the approximately 2,500 children attending the event. Children who attended with their parents were able to receive a backpack containing school supplies for the new school year.

## Public Outreach Department

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The Public Outreach Department spent much of May through August informing residents about arbovirus activity detected in different parts of the Coachella Valley, and raising awareness about protection from mosquito bites and mosquito breeding prevention. We took part in 22 events, published nine news releases, and gave seven interviews regarding West Nile Virus (WNV) and St. Louis encephalitis virus (SLEV) activity in the Coachella Valley and the first detection of invasive mosquito *Aedes aegypti* in Rancho Mirage. District staff gave nine presentations, and 11 community events, and two tours. Elected officials, rotary clubs, school districts, businesses, and neighborhood associations partnered with the District to help prevent mosquito-borne viruses. We reached more than 1,400 residents directly in the community through the following activities and reached tens of thousands through our advertising campaign, media interviews, and social media posts.

- **May 2:** KMIR interview with Laboratory Manager *Jennifer Henke*.
- **May 4:** Environmental Sustainability Expo hosted at CSU San Bernardino Palm Desert Campus with *Jennifer* and Public Outreach Coordinator *Edgar Castro* hosting the booth.
- **May 9:** KESQ TV interview with General Manager *Jeremy Wittie* and Telemundo TV interview with *Edgar*.
- **May 12:** Fight the Bite Community Block Party and Clean Up in Mecca to educate residents on invasive *Aedes* prevention and source reduction. A dozen District staff took part in the event which took place at a downtown Mecca, throughout residential streets with a curbside pickup and at a disposal site.
- **May 24:** Riverside County Supervisor V. Manuel Perez toured the District with presentations by District managers and staff.
- **June 3:** World Environment Day Fair in Palm Springs with *Edgar* and Vector Control Technician II *Linda Petersen* at the booth.
- **June 8:** Hoover Elementary school students and parents toured the District.
- **June 15:** Movies in the Park in Indio with *Edgar* and Vector Control Technician I *Fernando Gutierrez* conducting outreach.
- **June 29:** California Healthline news story ran nationwide about mosquito control efforts in California following an interview with *Jill*.
- **June 25:** Indian Wells Rotary Club presentation by *Jeremy*.
- **June 26-29:** Public Outreach staff distributed awareness materials during National Mosquito Control Awareness Week to HOAs and businesses near or in areas in Indian Wells and Palm Desert where WNV had been detected, including, Shadow Mountain Resort, the Vintage Club,



*Riverside County Supervisor V. Manuel Perez (right) learns about mosquito traps. Laboratory Manager Jennifer Henke (middle) and Laboratory Technician Charles Rodriguez (left) explain how the traps work.*

Hyatt Regency, and the Village, and International Hotel and Suites. KESQ interviewed Public Information Manager *Jill Oviatt* and ran mosquito prevention stories twice during the week.

- **June 29:** Mosquito Prevention Best Practices Training was delivered to Palm Spring Unified School District custodial and maintenance workers by Field Supervisor *Michael Martinez* and *Jill*.
- **July 3:** Mosquito Prevention Best Practices Training was delivered by Field Supervisor *Oldembour Avalos* and *Edgar* to the Hyatt Regency groundskeepers in Indian Wells.
- **July 11:** Live in-studio KNEWS Radio interview with *Jill* on the Dump it. Drain it. Scrub it Clean. advertising campaign.
- **July 12:** Summer Camp presentation and interactive activities in Thousand Palms given by *Edgar* and Administrative Clerk *Diana Reyes*.
- **July 18:** Coachella Valley Rotary Club presentation by *Jeremy*.
- **July 19:** Summer Camp presentation and interactive activities in Indio by *Edgar* and Administrative Clerk *Abby Torres*.
- **July 31:** Mosquito Prevention Best Practices Training to Custodian and Maintenance Staff at Desert Unified School District by *Jill*.
- **August 6:** District overview and tour for new County Supervisor Office staff member by *Jill*.
- **August 7:** Mosquito prevention and protection materials were distributed by *Edgar* in response to increased virus activity in the East Valley, including the Northshore Yacht Club, Northshore Fire Department, Reyes Market, Mecca Desert Recreation District, Boys & Girls Club, La Chicanita Market, Mecca Resources and Service Center, Dental Clinic, and Mecca Pharmacy and Health Clinic. *Edgar* also presented at and distributed information materials to nine wellness and nutrition classes at the Women, Infant, and Children (WIC) office in Mecca.
- **August 8:** Developed and launched our new interactive “Hypebox” display tool which will be used at Fight the Bite Block Parties, Fairs, school presentations, and other events. When not being used externally, it will remain in the District lobby for visitors to explore.
- **August 9:** Galilee Center Food Distribution in Mecca information booth hosted by *Edgar*, *Fernando*, and District Intern *Haide Vela*.
- **August 24:** Mosquito prevention and protection materials distributed in the Oasis area by *Edgar* in response to increased virus activity.
- **August 28:** KESQ TV interview with *Jeremy*.



*Participants at the Summer Camp in Thousand Palms pose for a group picture after learning how they can help reduce mosquitoes in their neighborhood.*

## Surveillance and Quality Control Management Program

The vector-borne statewide surveillance program was established in 1969. The District began encephalitis surveillance in the early 1980s, and the surveillance program has been in place since 1990. The District program includes the monitoring of vector and vector-borne diseases and the implementation, evaluation, and analysis of integrated vector management strategies in the Coachella Valley. Information generated by this department is used by District Operations staff to ensure control measures are efficiently implemented in the field.

### DISEASE SURVEILLANCE (As of 8/31/2018) ARBOVIRUS SURVEILLANCE TESTING – CALIFORNIA

	WNV – Positive 2018 YTD	WNV - Positive 2017 YTD	WNV – 5 year Average	WEE 2018 YTD	SLE 2018 YTD
Positive Counties	36	34	38	0	8
Human Cases	42	87	118	0	0
Positive Dead Birds / # Tested	397/1,603	264/1,438	947	0	0
Positive Mosquito Pools / # Tested	1,456/30,672	2,545/31,999	2427	0	264/24,113

2018	Chikungunya	Dengue	Zika
Mosquito Pools YTD (positive/total tested)	0/1,017	0/1,017	0/1,017

### ARBOVIRUS SURVEILLANCE TESTING – COACHELLA VALLEY

		MAY	JUNE	JULY	AUGUST	2018 YTD	2017 YTD	5 YEAR AVERAGE YTD
HUMANS		0	0	0	0	0	1	1
DEAD BIRDS		0	0	0	0	0	0	0.2
MOSQUITO POOLS	WNV	0	5	9	7	21	108	58.2
	SLE	0	0	19	15	34	2	24.7*
	# TESTED	592	463	371	282	3,005	3,148	1,518

\* Three year average based SLE detections from 2015-2017

### ENDEMIC MOSQUITO SURVEILLANCE

#### CO<sub>2</sub> TRAPS

During the normal mosquito season (March through mid-November) the District Laboratory staff maintains 102 CO<sub>2</sub> (carbon dioxide) traps through the District to monitor the mosquito populations. Extra emphasis is placed on mosquito species that are known to be vectors of virus that cause human disease. These vector species in the Coachella Valley are *Culex tarsalis* and *Cx. quinquefasciatus*. In the rural areas *Cx. tarsalis* is the most abundant vector species. CO<sub>2</sub> traps release carbon dioxide to attract mosquitoes looking to obtain a blood meal and are very effective at collecting *Culex* mosquitoes. The average number of vectors captured per trap per night is monitored and used to guide operational activities of the District. The number of mosquitoes collected in half-month periods is compared to the previous 5-year average. The surveillance program mosquito abundance is broadly reported in two areas – Urban and Rural. These Urban and Rural areas are also broken down into smaller zones to look at more specific regions of the District when planning mosquito control activities.



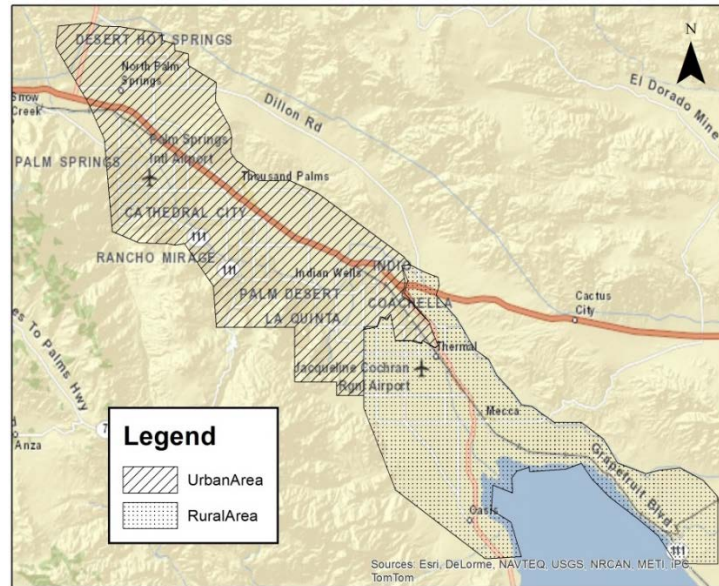


## Gravid Traps

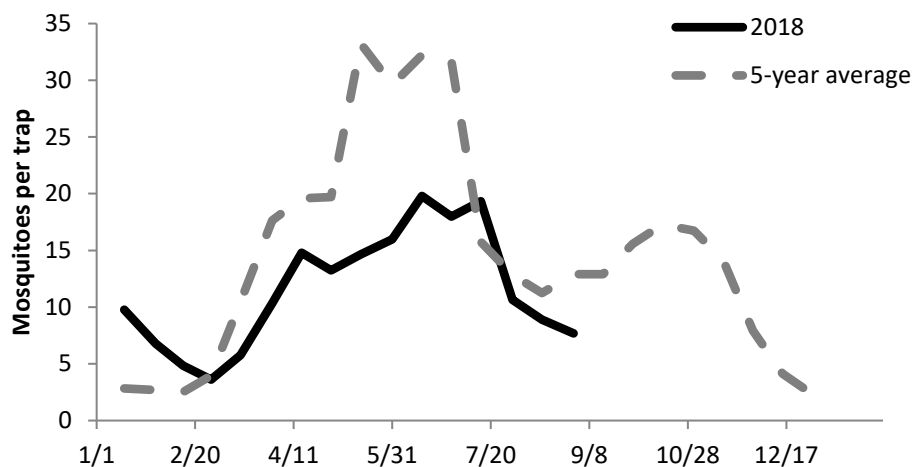
Gravid traps use water infused with organic matter such as alfalfa to attract mosquitoes looking to lay eggs. These traps are especially effective at collecting *Cx. quinquefasciatus* mosquitoes, which are the primary disease vector in the urban areas of the District. However, other mosquito species, including *Cx. tarsalis* are not attracted to these traps. Because of their use in targeting *Cx. quinquefasciatus* mosquitoes, these traps are placed in urban areas of Coachella Valley. The District currently uses gravid traps at 53 locations during the normal mosquito season.

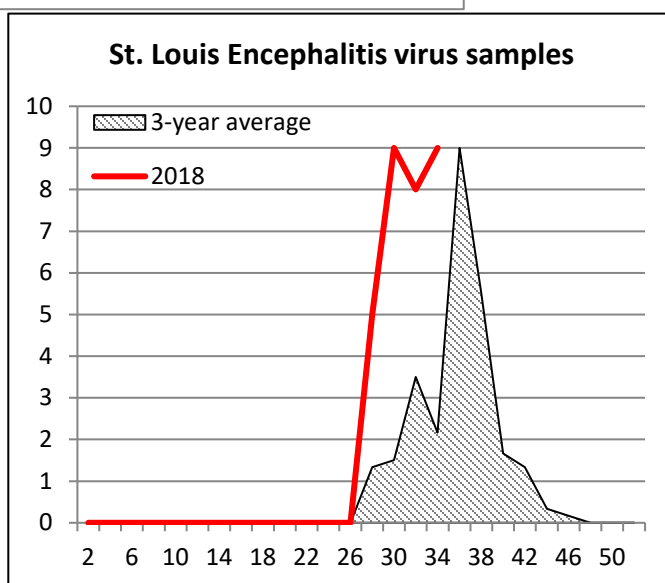
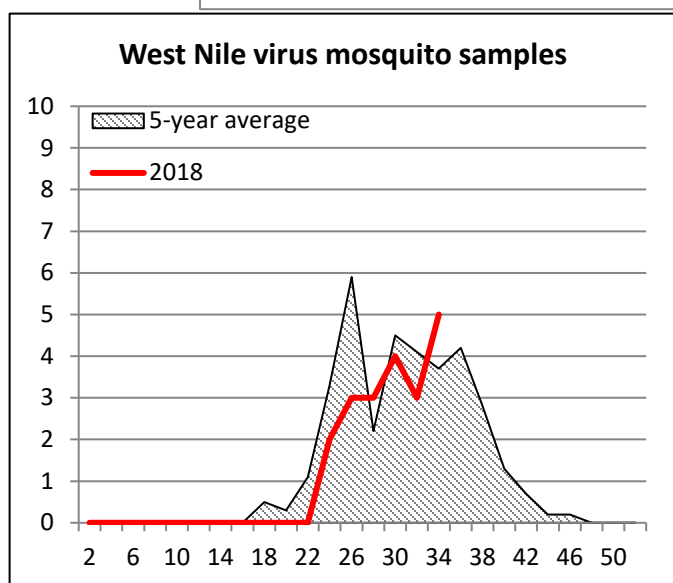
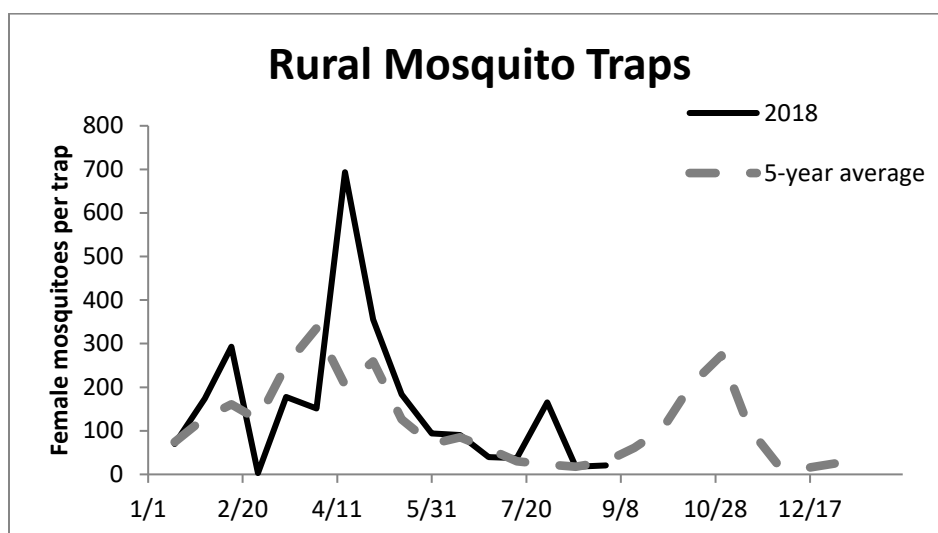


## MOSQUITO SURVEILLANCE ZONES



## Urban Mosquito Traps





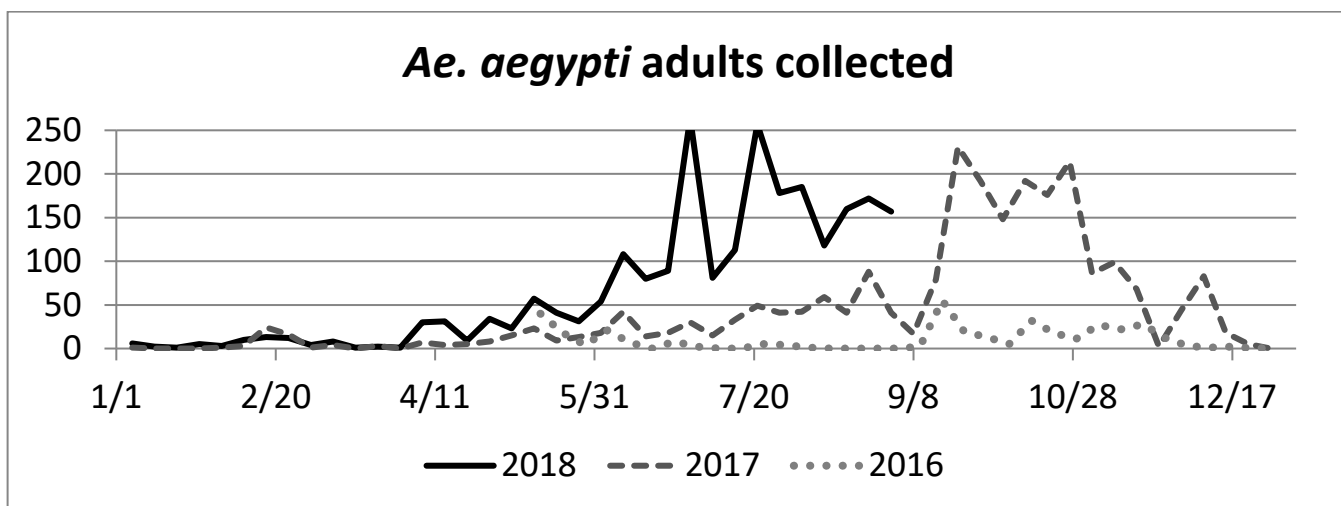
## EXOTIC MOSQUITO SURVEILLANCE

*Aedes aegypti* has been detected in most cities within the Coachella Valley, from Palm Springs to Mecca. This invasive species is not native to southern California. It is a species of interest because it is the primary vector of dengue, chikungunya, Zika, and yellow fever. BG-Sentinel traps are deployed weekly in each region to detect adult mosquitoes looking to bite people. Autocidal Gravid Ovitrap (AGOs) are deployed in locations where female mosquitoes might lay eggs. Ovicups are placed throughout the Coachella Valley region with higher cup density in areas with prior *Aedes* activity. These ovicups collect eggs and are examined weekly. The population of *Ae. aegypti* is most active in the fall.



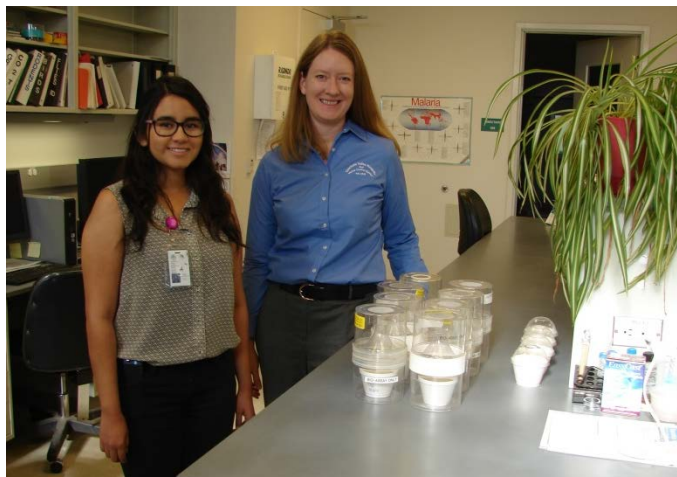
Left: BG Sentinel trap. Right: Autocidal Gravid Trap (AGO).





### DEPARTMENT WORK

**INTERNSHIP.** Haide Vela-Alvarez interned in the department from the middle of June until the end of August. The internship is part of the Health Career Connections program which provides internships with health-related fields across the Coachella Valley, encouraging college students and recent graduates to explore the opportunities in health in the valley. Haide examined the impact of the Block Party and Community Clean-up event in Mecca in May by re-inspecting residences to determine if there were fewer mosquitoes and fewer items in people's yards after the event. Fewer residences had mosquitoes after the event; however, there were more potential breeding sources after the event. Haide also examined product efficacy for a new product and found that the higher rate lasted longer than the lower rate. While at the District, Haide also worked with the Operations and the Public Outreach Departments, learning firsthand about the work done to control mosquitoes and protect the public.



	Pre-Event	Post-Event
Number of Active Mosquito Breeding residences	13	8
Number of Potential Breeding sources	562	747

### Biological Control

#### **Mosquitofish (*Gambusia affinis*)**

As of August 24, 2018, approximately 20,000 fish were stocked in neglected swimming pools, private ponds, detention basins, and animal water troughs. The District has moved all mosquitofish production to the outdoor rearing ponds.

### Product Efficacy

**QUALITY CONTROL ASSAYS.** Quality control assays are conducted on the control products that we receive from manufacturers to ensure the products are effective after transport and storage. In 2018, we are assaying the Bti and *L. sphaericus* products (microbials). To determine if products are working, larvae are treated, and mortality is counted. Microbials produce toxins that destroy the stomach of larvae, so if they are working, we expect 100% larval mortality. The District received one formulation of a Bti product in June and again in August (VectoMax FG); all lot numbers had 100% larval mortality in the assays.

**BOTTLE BIOASSAY.** Bottle bioassays are conducted to monitor the effectiveness of products used to control adult mosquitoes. By exposing mosquitoes to a small amount of product, we can compare wild mosquitoes to our laboratory-reared mosquitoes which we know are susceptible to the products. This year, we examined mosquito resistance for our rural mosquitoes and urban mosquitoes against 3 products: Scourge 18+54, AquaReslin, and DeltaGard. This is the first look at Deltagard against our rural mosquitoes. The rural mosquitoes show signs of resistance to AquaReslin and Scourge. They are not showing signs of resistance to DeltaGard. Our urban mosquitoes are showing signs of resistance to all three products especially Scourge 18+54.

**EVERGREEN ULV APPLICATIONS.** District staff evaluated EverGreen ULV 5-25 (pyrethrin and piperonyl butoxide) at 3 rates for use in adulticide treatments. The product was tested against lab-reared mosquitoes (which should be susceptible to all products) and wild-caught mosquitoes. The wild-caught mosquitoes demonstrated good susceptibility to the product at the lowest application rate so we plan to include this product in our options to use for adulticiding. This product can be used in organic fields, which provides an advantage on product use when doing adulticide treatments.

**DEMAND CS BARRIER APPLICATION.** Demand CS is a product used at the district as early as 2006, but no protocols were developed to properly evaluate this product for mosquito resistance. The product cannot be evaluated as part of our regular bottle bioassays, so a field assay was conducted to test the product against wild-caught mosquitoes and lab-reared mosquitoes. The wild-caught mosquitoes were less susceptible (64-77% mortality) compared to the lab-reared mosquitoes (96% mortality) demonstrating resistance developing in the wild mosquitoes to Demand CS.

**ONEGUARD BARRIER APPLICATION.** Joe Camacho from Target Specialty visited and assisted the District during the initiation of the OneGuard barrier application trial. OneGuard is a multi-mode-of-action concentrate containing 4 active ingredients which target the larval and the adult stages. The benefit of using this product is the ease of mixing and the potential for quick activity after a short exposure. Currently, barrier applications are used in the urban zones for *Aedes* treatments and throughout the valley to interrupt the virus transmission cycle. The barrier application was made in two plots in the rural zones. The product is expected to last up to 4 months.



**TRUCK LARVICIDING.** District staff worked with staff from Valent BioSciences, Greater Los Angeles County Vector Control District, Riverside County Department of Environmental Health, and San Diego County Department of Environmental Health to examine 4 pieces of equipment that are available for use to apply larvicide in neighborhoods. Three pieces were examined for their effective swath width by placing cups out every 30 feet perpendicular to the spray path. Later, water and mosquito larvae were added to the cups to see if enough product was deposited to control mosquitoes. If all of the mosquito larvae died, then complete coverage was said to have occurred, but if some lived, then partial coverage was said to have occurred. A summary of the effective swath widths is below.

Equipment	Angle	Time of application	Temperature	Wind	Complete coverage	Partial coverage
Guardian	0 (vertical)	1:48 am	86.3°F	10.1 mph	240 ft.	540 ft.
	45	2:12 am	85.8°F	9 mph	240 ft.	600 ft.
Buffalo (San Diego)	0 (vertical)	2:48 am	85°F	5.8 mph	240 ft.	570 ft.
	45	3:14 am	84.7°F	5.4 mph	210 ft.	570 ft.
Buffalo (Riverside)	0 (vertical)	3:41 am	84.4°F	5.9 mph	390 ft.	600 ft.
	45	4:04 am	84.9°F	5.3 mph	150 ft.	540 ft.

Staff then used the Guardian and another piece of equipment, an A1 Super Duty, to examine the ability to control mosquitoes in a neighborhood in Indio. Cups were placed out at residences in the front and backyards, in both the open where the product could easily enter and in obstructed areas where it was more difficult for the product to land. Cups were brought back to the District where water and mosquito larvae were added. In all of the cups, enough product was deposited to control the mosquitoes.



**HOMEOWNER MOSQUITO CONTROL.** Periodically residents ask about mosquito control products that can be purchased online or in home improvement centers. For those wishing to conduct mosquito control on their own property, we have reviewed the available products and have found the following options that can be legally obtained. District staff has examined 6 of the 7 products in microcosm ponds at this time. In nearly all instances, the product licensed for use by vector control technicians is more effective than the product licensed for use by private residents. The final product is being tested currently.

CONSUMER PRODUCT	DISTRICT PRODUCT	MORTALITY RESULTS (3 days after treatment)		MORTALITY RESULTS (>7 days after treatment)	
		Consumer	District	Consumer	District
<b>EcoRaider™ Mosquito Larvicide/Pupacide</b> (2% Geraniol, 2% Cedarwood oil, 4% Sodium lauryl sulfate)	<b>Coco Bear Mosquito Larvicide/Pupacide</b> (10% mineral oil)	<u>EcoRaider 9</u> 5.3%	<u>CocoBear 9</u> 8.5%	<u>EcoRaider</u> 33%	<u>CocoBear</u> 90%
<b>Mosquito Beater WSP® Mosquito Granular Larvicide in Water Soluble Pouches (1.7% Bti)</b>	<b>VectoMax WSP Mosquito Granular Larvicide in Water Soluble Pouches (4.5% Bti)</b>	<u>Mosquito Beater WSP</u> 68.3%	<u>VectoMax WSP</u> 98.3%	<u>Mosquito Beater WSP</u> 10%	<u>VectoMax WSP</u> 95.3%
<b>Summit Mosquito Bits® Mosquito Granular Larvicide (2.86% Bti)</b>	<b>VectoBac G Mosquito Granular Larvicide (2.80% Bti)</b>	<u>Summit Mosquito Bits</u> 100%	<u>VectoBac G</u> 100%	<u>Summit Mosquito Bits</u> 96.5%	<u>VectoBac G</u> 84%
<b>First Watch™ Mosquito Larvicide/Pupacide Monomolecular Surface Film 100% - Poly(oxy-ethanediyl), α-isooctadecyl-w-hydroxyl</b>	<b>Agnique MMF Mosquito Larvicide/Pupacide Monomolecular Surface Film 100% - Long chain Multi-branched alcohol</b>	<u>First Watch</u> 98.2%	<u>Agnique MMF</u> 99.2%	<u>First Watch</u> 34.2%	<u>Agnique MMF</u> 75.8%
<b>Pre-Strike Mosquito Torpedo™ Insect Growth Regulator 8.62% - (S) – Methoprene</b>	<b>Altosid Briquet Insect Growth Regulator 8.62% - (S) – Methoprene</b>	<u>Pre-Strike Torpedo</u> 98.2%	<u>Altosid Briquet</u> 99.2%	<u>Pre-Strike Torpedo</u> 71.2%	<u>Altosid Briquet</u> 79%
<b>Microbe-Lift BMC® Mosquito Aqueous Larvicide 8% - BTI</b>	<b>VectoBac 12AS Mosquito Aqueous Larvicide 11.61% - BTI</b>	<u>Microbe-Lift BMC</u> 99.2%	<u>VectoBac 12AS</u> 99.5%	<u>Microbe-Lift BMC</u> 37.8%	<u>VectoBac 12AS</u> 57.8%



## Operations Department Update

### General Control Overview

This update covers the months of June, July, and August 2018 contrasted with the same period of 2017. As reported earlier in the year the department changed its workflow with regular zone operation work to be covered by 18 vector control technicians, 14 in urban zones and 4 in rural and agricultural zones. Two full time technicians were assigned to Red Imported Fire Ants (RIFA) program and the other two to the Invasive *Aedes* program. Two of the latter programs are supported by five seasonal employees. This report partly has results from the restructuring.

### 1. Mosquito Inspections and Control

The operations activities completed in the month of June, July and August, 2018 as compared to similar months in 2017 are as follows:

Month	Mosquito Inspections		Number of Applications		Area Treated (Acres)	
	2018	2017	2018	2017	2018	2017
June	4,880	3,363	2,939	2,003	145.2	245.6
July	4,824	3,454	2,489	2,120	249.5	178.1
August	5,752	3,795	2,359	1,750	164.6	302.1
Total	15,456	10,612	7,787	5,875	559.3	725.7
% Change	46		33		-23	

The month to month mosquito inspections in 2018 have been running at above 40 percent more in 2018 compared to 2017 with more than 30 percent of actual chemical control applications in June, July and August of this year than the same period last year. The approach in controlling mosquitoes in duck club habitats this year has been a little different than last year. The operation department has deliberately held back on pre-treatment of the duck clubs and has engaged the duck club owners/caretakers more to know when the pre-flooding occurs so that our treatments closely coincide with actual flooding. This approach may partly explain the decrease in treated acreage by more than 20 percent in the month of June, July and August this year compared to last year. The decrease in acreage treated was more in June and August than July of 2018.

### 2. The Red Imported Fire Ant Program

The RIFA program inspections and chemical control applications in the months of June, July, and August 2018 as contrasted to same period in 2017 are shown below. The inspections and treatments for RIFA although slighted higher for the three months in 2018 compared to 2017 resulted in about half RIFA infested area being treated in 2018 compared to 2017. In 2017 while the District continued to develop its invasive *Aedes* program a majority of the large acreage RIFA work was performed by seasonal staff. In 2018 with the reconfiguration of the Operations Department, the RIFA surveillance and control program re-incorporated full time Vector Control Technicians supported by seasonal staff which has led to better surveillance and adherence to treatment thresholds lowering treated acreage in 2018.

	RIFA Inspections		RIFA Treatments		Area Treated (Acres)	
	2018	2017	2018	2017	2018	2017
June	253	248	235	237		
July	300	228	271	222		
August	297	279	283	239		
Total	850	755	789	698	4,791.8	8,479.7

### 3. Service Request

In the months of June, July and August of 2018 the Operations Department completed 1,369 Service Requests (SR) from residents compared to 807 Service Requests in same period of 2017. The service requests for both 2018 and 2017 were mostly in response to RIFA then followed by mosquito calls. The zone technicians handled most of the service requests except the Aedes calls and RIFA calls from large properties

### 4. Control of *Aedes aegypti*

The Operations Department starting March 2018 started conducting its inspections and control of *Aedes aegypti* by the Invasive *Aedes* Program of two full time technicians assisted by 5 seasonal staff. The staff has been canvassing neighborhoods for properties infested with *Aedes aegypti* mosquitoes confirming presence of eggs, larvae, pupae and/or adults. The operation activities in the month of June, July, and August of 2018 registered a total of 3,622 invasive *Aedes* inspections and 3,040 inspections over the same period for 2017. The inspections and treatments over these three months were conducted mostly in the cities of Coachella, Indio, Cathedral City, Palm Springs, Palm Desert and Mecca. Treatments of properties against invasive *Aedes* is being conducted on properties identified by field staff and confirmed by the laboratory as positive for *Aedes aegypti*, and treatments of such properties includes barrier sprays and residential fogging with larvicides and adulticides. Month to month records of inspections and treatments are as follows in the table below. The number of treatments for June, July and August 2018 were about half over the same period in 2017. The reduction in treatments over this period could be wholly attributed to treating properties that are positive or could potentially be positive for *Aedes aegypti*, and properties that had no potential of breeding or growing this mosquito were not treated.

	Invasive <i>Aedes</i> Inspections		Invasive <i>Aedes</i> Treatments	
	2018	2017	2018	2017
June	1,329	1,247	462	843
July	1,180	934	320	1,006
August	1,113	859	326	322
Total	3,622	3,040	1,108	2,171

### Proposed Activities for Operations Department

1. Wide Area Larvicide Applications; Operation and Surveillance are working together on a wide area larvicide applications in two most impacted cities by *Aedes aegypti*. The planning is still in progress with proposed treatments to begin in September through October.

2. Unmanned Autonomous Systems (Drone) program is being developed. Two UAS vehicles have been purchased, 15 employees trained and are at different stages of licensure. The policy and standard operating procedures are being developed.

# Mosquito Habitats Treated

# Operations

6/1/2018 to 8/31/2018 Report



## 296 Agriculture APPLICATIONS

Applications	FORMULATION: DRY	Acreage
2	Bs	0.50
36	Bs/Bti	13.69
39	Bti	22.76
20	Methoprene	5.31
82	Spinosad	63.76
Applications	FORMULATION: LIQUID	Acreage
1	(AE) surfactant	0.00
32	Bti	4.99
9	Methoprene	3.13
75	Spinosad	21.98



## 19 Duck Club APPLICATIONS

Applications	FORMULATION: DRY	Acreage
4	Bs/Bti	1.35
4	Bti	6.52
4	Methoprene	12.20
5	Spinosad	4.75
Applications	FORMULATION: LIQUID	Acreage
2	Spinosad	0.50



## 1,108 Invasive Aedes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
1	Bs	0.00
347	Bti	2.72
2	Methoprene	0.02
Applications	FORMULATION: LIQUID	Acreage
347	Barrier	2.71
411	Fogging	152.22



## 5,726 Residential APPLICATIONS

Applications	FORMULATION: DRY	Acreage
6	Bs	1.55
232	Bs/Bti	1.40
407	Bti	12.22
1,544	Methoprene	106.34
1,732	Spinosad	6.83
Applications	FORMULATION: LIQUID	Acreage
189	(AE) surfactant	0.52
596	Bti	21.47
319	Methoprene	2.10
700	Spinosad	27.69



## 24 Salton Sea Marshes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
1	Bs/Bti	1.50
6	Bti	32.58
3	Methoprene	6.58
3	Spinosad	3.05
Applications	FORMULATION: LIQUID	Acreage
4	Bti	0.07
2	Methoprene	0.06
5	Spinosad	4.36

**(AE) surfactant** - reduces surface tension of water making it difficult for mosquito larvae and pupae to attach and causes them to drown

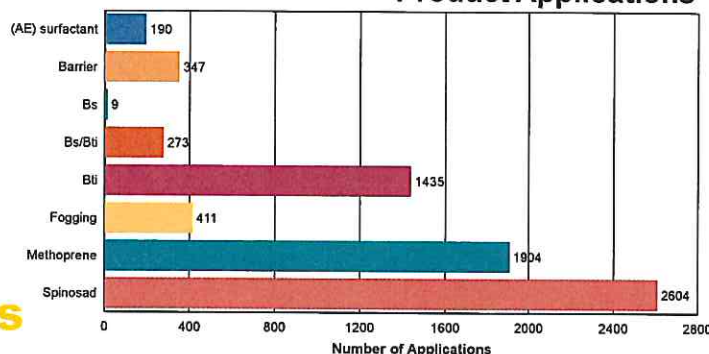
**BS (*Bacillus sphaericus*)** - soil-dwelling bacterium, used as a biological pesticide that during sporulation produce crystals that have insecticidal action when ingested by mosquito larvae

**BTI (*Bacillus thuringiensis israelensis*)** - soil-dwelling bacterium, commonly used as a biological pesticide that during sporulation produce crystal proteins that have insecticidal action when ingested by mosquito larvae

**Methoprene** - used as a biological pesticide that mimics natural juvenile hormone of insects and acts as a growth regulator. Juvenile hormone must be absent from mosquito pupa to molt to an adult. Mosquito pupae treated with Methoprene will be unable to successfully mature from pupae to the adult mosquito

**Spinosad** - a naturally-occurring soil-dwelling bacterium, *Saccharopholyspora spinosa*

Product Applications



Product Breakdown

		Total		
		Count	Acreage	Cost
FORMULATION: DRY	Total	4,481	305.65	\$23,602.39
	Bs	9	2.05	\$185.82
	Bs/Bti	273	17.95	\$1,794.89
	Bti	803	76.80	\$2,146.25
	Methoprene	1,574	130.46	\$10,230.96
	Spinosad	1,822	78.39	\$9,244.46
FORMULATION: LIQUID	Total	2,692	241.81	\$23,760.66
	(AE) surfactant	190	0.52	\$20.32
	Barrier	347	2.71	\$22,412.20
	Bti	632	26.53	\$226.50
	Fogging	411	152.22	\$148.85
	Methoprene	330	5.30	\$42.97
	Spinosad	782	54.53	\$909.82



# Mosquito Habitats Treated

# Operations

6/1/2017 to 8/31/2017 Report



## 293 Agriculture APPLICATIONS

Applications	FORMULATION: DRY	Acreage
20	Bs/Bti	13.10
59	Bti	23.97
21	Methoprene	6.57
79	Spinosad	85.79
Applications	FORMULATION: LIQUID	Acreage
3	(AE) surfactant	1.51
28	Bti	10.41
17	Methoprene	1.95
66	Spinosad	19.65



## 46 Duck Club APPLICATIONS

Applications	FORMULATION: DRY	Acreage
5	Bs/Bti	7.95
7	Bti	23.80
9	Methoprene	3.99
13	Spinosad	11.56
Applications	FORMULATION: LIQUID	Acreage
2	Bti	0.35
5	Methoprene	1.04
5	Spinosad	3.11



## 2,170 Invasive Aedes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
693	Bti	8.22
2	Spinosad	0.01
Applications	FORMULATION: LIQUID	Acreage
695	Barrier	8.18
778	Fogging	303.24
1	Spinosad	0.00



## 2,989 Residential APPLICATIONS

Applications	FORMULATION: DRY	Acreage
102	Bs	0.25
86	Bs/Bti	0.63
238	Bti	1.01
584	Methoprene	2.28
987	Spinosad	4.96
Applications	FORMULATION: LIQUID	Acreage
194	(AE) surfactant	1.32
1	Barrier	0.05
300	Bti	12.23
4	Fogging	2.07
102	Methoprene	0.60



## 33 Salton Sea Marshes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
4	Bs/Bti	10.45
7	Bti	24.62
5	Methoprene	1.92
10	Spinosad	10.42
Applications	FORMULATION: LIQUID	Acreage
5	Bti	1.05
2	Spinosad	0.01

**(AE) surfactant** - reduces surface tension of water making it difficult for mosquito larvae and pupae to attach and causes them to drown

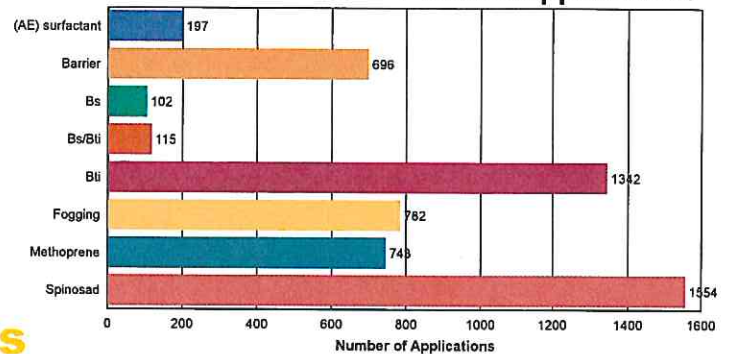
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**Methoprene** - used as a biological pesticide that mimics natural juvenile hormone of insects and acts as a growth regulator. Juvenile hormone must be absent from mosquito pupa to molt to an adult. Mosquito pupae treated with Methoprene will be unable to successfully mature from pupae to the adult mosquito

**Spinosad** - a naturally-occurring soil-dwelling bacterium, *Saccharopolyspora spinosa*

Product Applications



Product Breakdown

		Total		
		Count	Acreage	Cost
FORMULATION: DRY	Total	2,933	241.49	\$25,314.64
	Bs	102	0.25	\$287.52
	Bs/Bti	115	32.14	\$3,344.06
	Bti	1,006	81.62	\$2,244.64
	Methoprene	619	14.75	\$4,420.70
	Spinosad	1,091	112.73	\$15,017.71
FORMULATION: LIQUID	Total	2,598	385.64	\$68,926.39
	(AE) surfactant	197	2.83	\$112.56
	Barrier	696	8.22	\$67,253.35
	Bti	336	24.04	\$207.46
	Fogging	782	305.31	\$291.02
	Methoprene	124	3.59	\$19.03
	Spinosad	463	41.64	\$1,042.97



# Operations

6/1/2018 to 8/31/2018 Report



## 169 Country Club

### APPLICATIONS

1,359.19 ACRES TREATED  
168 BROADCAST TREATMENTS  
1 SPOT TREATMENTS



## 28 Golf Course

### APPLICATIONS

2,729.47 ACRES TREATED  
28 BROADCAST TREATMENTS



## 502 Homeowner

### APPLICATIONS

99.22 ACRES TREATED  
496 BROADCAST TREATMENTS  
6 SPOT TREATMENTS



## 8 Park

### APPLICATIONS

57.67 ACRES TREATED  
8 BROADCAST TREATMENTS



## 82 School

### APPLICATIONS

546.29 ACRES TREATED  
81 BROADCAST TREATMENTS  
1 SPOT TREATMENTS

## Red Imported Fire Ant



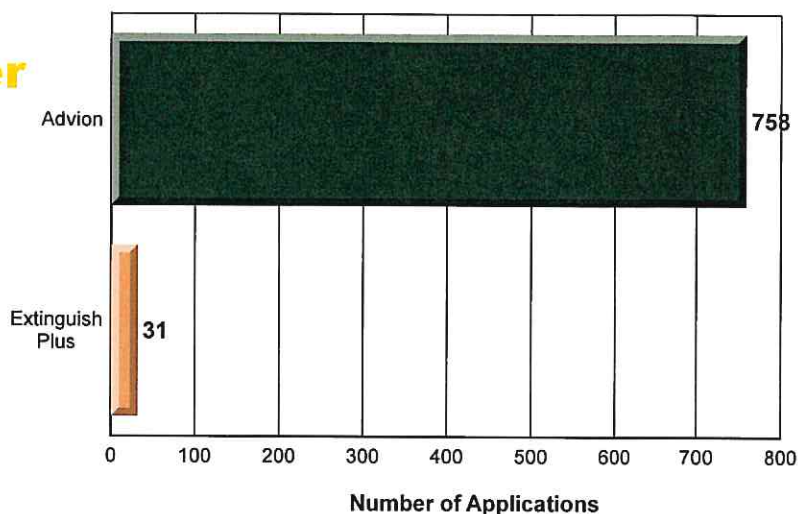
### Scientific classification

Kingdom: Animalia  
Phylum: Arthropoda  
Class: Insecta  
Order: Hymenoptera  
Family: Formicidae  
Genus: *Solenopsis*  
Species: *invicta*

### Binomial name

*Solenopsis invicta*  
(Buren, 1972)

## Product Applications



## Product Breakdown

		Advion	Extinguish Plus
Total	Acreage	2024.89	2766.95
	Amount (lbs.)	3,039.96	4,150.83
	Cost	\$ 28,758.05	\$ 26,731.35

ADVION® fire ant bait may be used to control imported fire ants, bigheaded ants\* and pavement ants\* in noncrop/nongrazed areas such as residential lawns, golf courses, recreational areas, industrial sites and other similar areas where imported fire ants, bigheaded ants and pavement ants are found. Rainfall or irrigation within 2 to 3 hours after application may reduce the effectiveness of ADVION® fire ant bait and a repeat application within 7 days may be necessary to achieve the desired level of control.

EXTINGUISH® PLUS is highly attractive to imported and native fire ants and other ants. Worker ants carry the bait into the mound as food for the colony. The ants will then begin feeding the bait to the rest of the colony. They eat it and feed it to the queen. EXTINGUISH® PLUS is a unique product containing a slow acting insecticide and an Insect Growth Regulator (IGR). This two-way action ensures complete control of fire ants. The IGR prevents rebound of the colony, while the insecticide insures rapid demise of the colony. EXTINGUISH® PLUS will start to kill ants after they feed on the bait. The colony will begin to decline in about a week, after the bait has been brought back to the mound. The mound is destroyed when the queen dies.

# Operations

6/1/2017 to 8/31/2017 Report



## 178 Country Club

### APPLICATIONS

1,586.55 ACRES TREATED  
172 BROADCAST TREATMENTS  
6 SPOT TREATMENTS



## 62 Golf Course

### APPLICATIONS

6,635.16 ACRES TREATED  
62 BROADCAST TREATMENTS



## 436 Homeowner

### APPLICATIONS

110.75 ACRES TREATED  
432 BROADCAST TREATMENTS  
4 SPOT TREATMENTS



## 8 Park

### APPLICATIONS

48.82 ACRES TREATED  
7 BROADCAST TREATMENTS  
1 SPOT TREATMENTS



## 14 School

### APPLICATIONS

98.43 ACRES TREATED  
14 BROADCAST TREATMENTS

## Red Imported Fire Ant



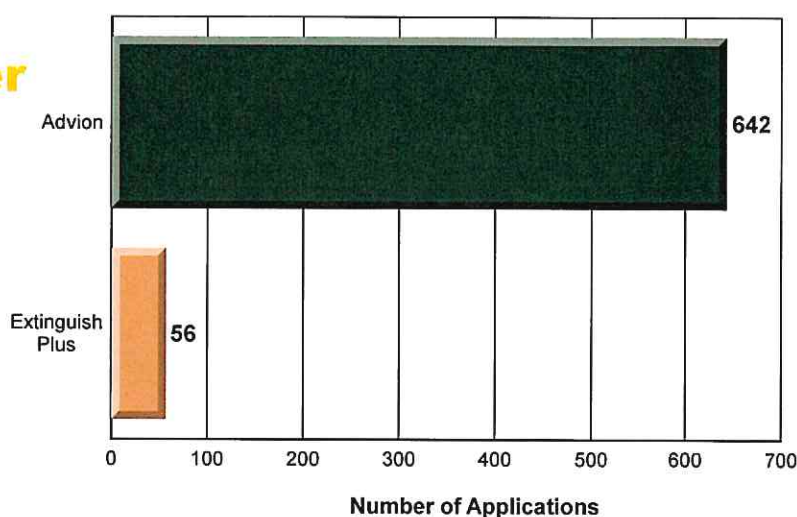
### Scientific classification

Kingdom: Animalia  
Phylum: Arthropoda  
Class: Insecta  
Order: Hymenoptera  
Family: Formicidae  
Genus: *Solenopsis*  
Species: *invicta*

### Binomial name

*Solenopsis invicta*  
(Buren, 1972)

## Product Applications



## Product Breakdown

		Advion	Extinguish Plus
Total	Acreage	2647.01	5832.70
	Amount (lbs.)	3,962.94	8,749.50
	Cost	\$ 37,489.40	\$ 56,346.75

ADVION® fire ant bait may be used to control imported fire ants, bigheaded ants\* and pavement ants\* in noncrop/nongrazed areas such as residential lawns, golf courses, recreational areas, industrial sites and other similar areas where imported fire ants, bigheaded ants and pavement ants are found. Rainfall or irrigation within 2 to 3 hours after application may reduce the effectiveness of ADVION® fire ant bait and a repeat application within 7 days may be necessary to achieve the desired level of control.

EXTINGUISH® PLUS is highly attractive to imported and native fire ants and other ants. Worker ants carry the bait into the mound as food for the colony. The ants will then begin feeding the bait to the rest of the colony. They eat it and feed it to the queen. EXTINGUISH® PLUS is a unique product containing a slow acting insecticide and an Insect Growth Regulator (IGR). This two-way action ensures complete control of fire ants. The IGR prevents rebound of the colony, while the insecticide insures rapid demise of the colony. EXTINGUISH® PLUS will start to kill ants after they feed on the bait. The colony will begin to decline in about a week, after the bait has been brought back to the mound. The mound is destroyed when the queen dies.



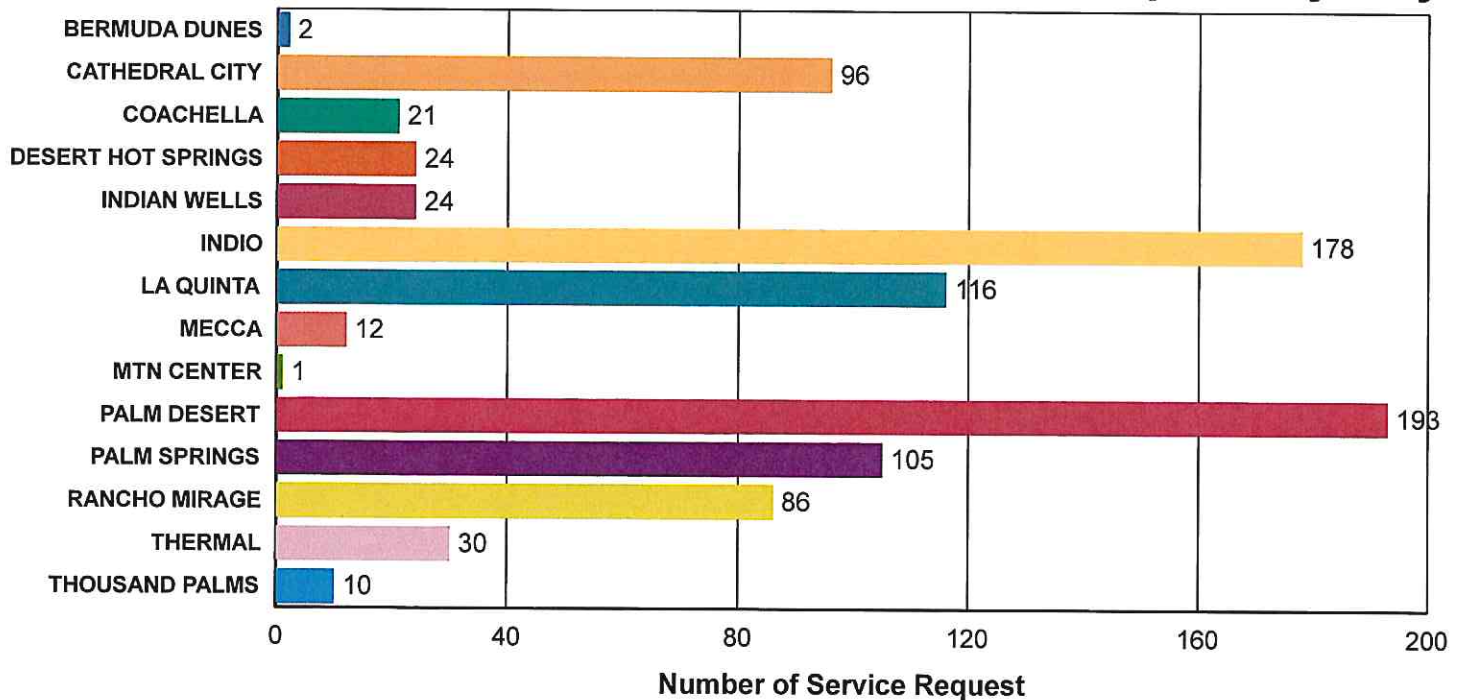
# Service Request Operations

6/1/2018 to 8/31/2018 Report

## Service Request Types

	TOTAL	STANDING WATER	NEGLECTED POOL	FLY/EYE GNATS	MOSQUITO	RODENTS	BEEES	RIFA	OTHER
TOTAL	898	53	62	41	130	6	30	572	4
BERMUDA DUNES	2	0	0	0	0	0	0	2	0
CATHEDRAL CITY	96	7	12	1	10	0	4	61	1
COACHELLA	21	0	1	1	3	0	1	15	0
DESERT HOT SPRINGS	24	3	2	0	0	2	1	16	0
INDIAN WELLS	24	1	1	0	3	0	0	19	0
INDIO	178	8	6	6	19	0	8	130	1
LA QUINTA	116	6	14	5	9	1	1	80	0
MECCA	12	2	0	8	1	0	0	1	0
MTN CENTER	1	0	0	0	0	0	0	1	0
PALM DESERT	193	12	8	8	38	2	6	119	0
PALM SPRINGS	105	10	8	1	18	0	6	60	2
RANCHO MIRAGE	86	3	10	5	9	1	3	55	0
THERMAL	30	1	0	6	20	0	0	3	0
THOUSAND PALMS	10	0	0	0	0	0	0	10	0

## Service Request by City



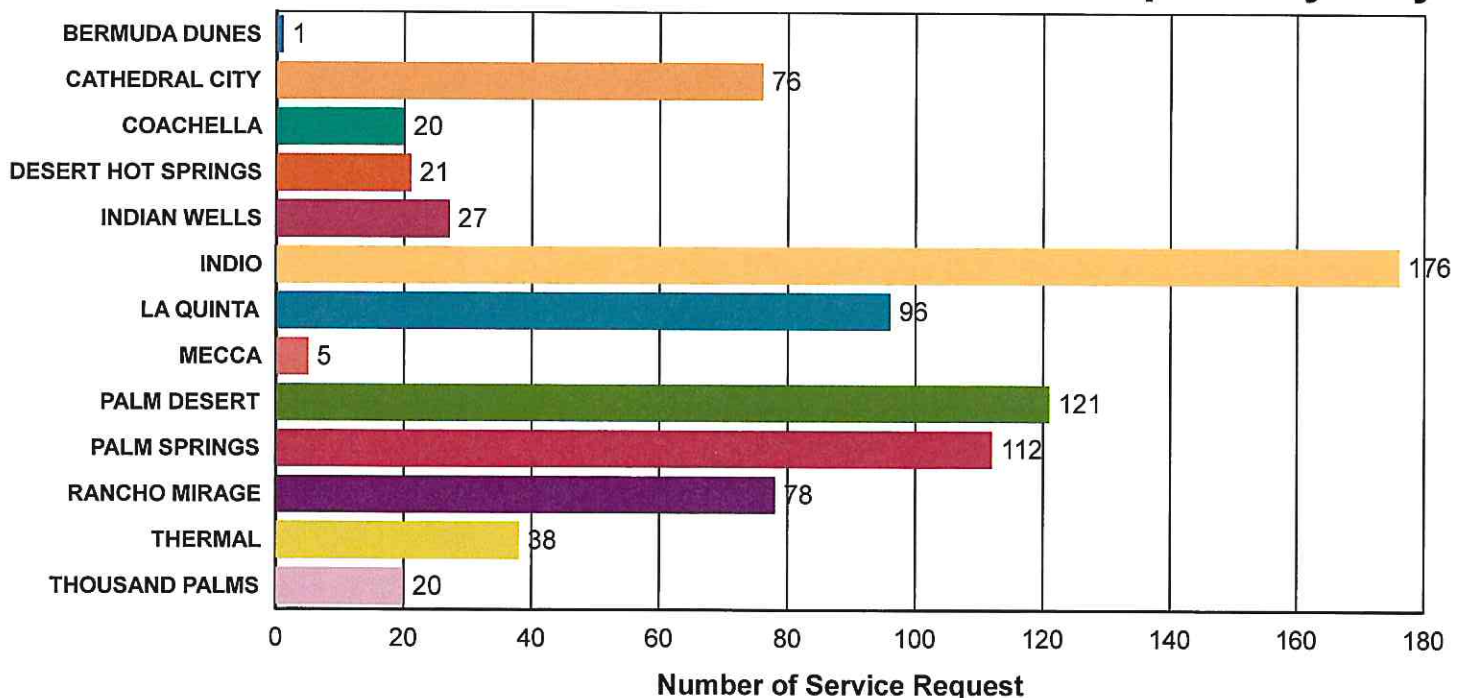
# Service Request Operations

6/1/2017 to 8/31/2017 Report

## Service Request Types

	TOTAL	STANDING WATER	NEGLECTED POOL	FLY/EYE GNATS	MOSQUITO	RODENTS	BEEES	RIFA	OTHER
TOTAL	791	50	61	41	100	4	28	504	3
BERMUDA DUNES	1	0	0	1	0	0	0	0	0
CATHEDRAL CITY	76	0	6	1	11	1	3	54	0
COACHELLA	20	1	0	2	4	0	4	9	0
DESERT HOT SPRINGS	21	1	6	3	2	0	2	7	0
INDIAN WELLS	27	1	1	0	4	0	0	21	0
INDIO	176	16	9	2	11	0	13	124	1
LA QUINTA	96	1	9	6	18	0	2	60	0
MECCA	5	0	0	5	0	0	0	0	0
PALM DESERT	121	5	7	1	13	2	0	93	0
PALM SPRINGS	112	17	16	1	18	1	1	56	2
RANCHO MIRAGE	78	3	7	5	6	0	3	54	0
THERMAL	38	3	0	14	13	0	0	8	0
THOUSAND PALMS	20	2	0	0	0	0	0	18	0

## Service Request by City



## Information Technology

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**Network: Outage:** The Coachella Network suffered a severe service outage that began Saturday, June 30, 2018, at 1:00PM and persisted intermittently until Thursday, July 5, approximately until 3:00PM. On Thursday, July 5, 2018, email communication was re-established for new incoming and outgoing messages with the assistance of Microsoft Technical Support. On July 16<sup>th</sup>, the email merge was initiated, which restore a majority of the District's old e-mail.

**E-Mail:** On July 30<sup>th</sup>, a 'Transfer Request', SPAM Message was received by David IAnson from Jeremy requesting to process a payment of \$5,250. E-mail Sample was forwarded to SPAM Filter Vendor to be analyzed. Ticket# 8255398 was opened regarding the E-mail Sample. SPAM Filter Database was updated to reject these types of SPAM Messages.

**INTEL Storage Server:** INTEL BMC Console reported a predictive power supply failure. Warranty Ticket# 03538395 was created to address the alert. Event Logs were exported from the console and sent to INTEL for RMA Review. Upon review, the logs do not indicate a predictive power failure but indicate a power loss. Recommended course of action is to check power supply cables and connection.

**Desktop Computer:** Public Outreach Manager's Desktop Computer suffered a thermal shutdown, requiring the computer to be taken offline. A new motherboard has been ordered to resolve the non-operational desktop computer.

**Printer:** HP LaserJet C4525 is displaying a 59.F0 Error. This error is primarily caused by a transfer alienation failure in which the ITB is stuck and unable to rotate, the SR9 sensor (the primary transfer roller disengagement sensor) has gone bad or the fuser drive assembly has failed. In layman terms, this is a huge 2 -3 hour repair job requiring the dismantling the C4525. Estimates are being gathered to determine proper course of action.

**Johnson Controls:** Temperatures in the BSL, Ante and Sorting Rooms of Laboratory have been exceeding 80/90/100 degrees, depending on outside conditions. We are currently working with Johnson Controls, to provide us with the ability to change the temperatures of the various rooms in the Laboratory via the Phoenix Micro Server. Johnson Controls will be remoting into the NAE to evaluate the situation.

### Six Month Outlook

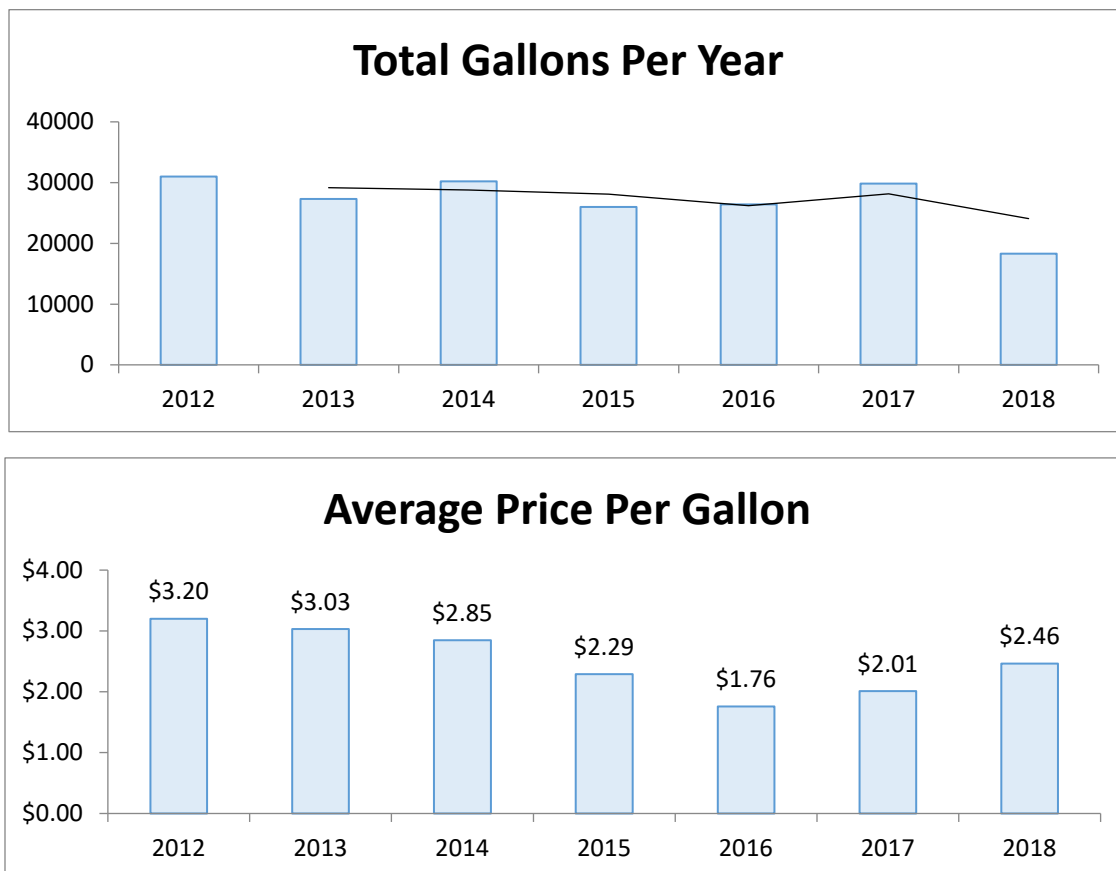
1. Upgrade MIC in Boardroom
2. Acquire and install new server
3. Acquire and install SQL
4. Acquire and install new core network switch
5. Install Phones in the Cold/Dry Storage Rooms

## Fleet Services

### Summary

DEPARTMENT	No. of Vehicles	COMPLETED WORK ORDERS
ADMINISTRATION	1	86
FACILITIES/SHOP	2	PENDING WORK ORDERS
MAINTENANCE	1	9
OPERATIONS	43	REPORTING PERIOD
PUBLIC OUTREACH	1	6/1/2018 – 8/31/2018
SURVEILLANCE	9	
<b>Grand Total</b>	<b>57</b>	

### Fuel Usage



### Six Month Outlook


1. Acquire seventeen (17) new vehicles for the District's Fleet of Vehicles
2. Acquire one (1) new ARGO for Operations Department

**SECTION**  
**12**



# **OLD BUSINESS**



	<b>Coachella Valley Mosquito and Vector Control District</b>  <b>Staff Report</b>		<b>September 11, 2018</b>
<b>Agenda Item:</b> Old Business			
Discussion and/or approval to add change order to Civil Engineering Agreement with Dudek for the Thermal Facility, in an amount not to exceed \$10,500.00 – <b>Jeremy Wittie, MS, General Manager</b>			
<b>Background:</b>			
The initial scope of work with Dudek Civil Engineers regarding the District’s paving of the Thermal Facility was split into three projects:			
<ul style="list-style-type: none"><li>• Project 1 – NE Corner Paving,</li><li>• Project 2 – Landscape Area Plan</li><li>• Project 3 – Mitigation paving of entire site per requirements of covenant.</li></ul>			
After review of the proposed project, environmental reports, and site covenant, the Regional Water Quality Control Board approved the proposed Thermal facility paving project on July 27, 2018, with additional direction to extend the mitigation area to include the shoulder along Avenue 55.			
As part of the change order, Dudek will prepare a separate plan (cover, plan, and details) for stabilizing the soil in this location. Dudek will coordinate with CV Water District identifying the location, depth and any concerns or additional protection required for work over the irrigation pipe running parallel to Avenue 55.			
Once this is complete District staff will move forward with an RFP for construction.			
<b>Staff Recommendation:</b>			
Staff recommends approval to add change order to Civil Engineering Agreement with Dudek for the Thermal Facility in an amount not to exceed \$10,500.			
<b>Fiscal Impact:</b>			
FY2018-19 Adopted Budget <b>Thermal Remediation Fund</b>	Current Available Funds	Proposed Expense	Remaining Available Funds
<b>\$463,724</b>	<b>\$463,724</b>	<b>\$10,500</b>	<b>\$453,224</b>

**SECTION**  
**13**



# **NEW BUSINESS**



## Coachella Valley Mosquito and Vector Control District

### Staff Report

**September 11, 2018**

#### **Agenda Item:** New Business

Approval to purchase additional control products from the lowest responsible bidders or sole-source providers, in the amount not to exceed \$110,000.00, from Fund #7800.01.500.028 – Field Chemical Control for control of invasive Aedes -- **J. Wakoli Wekesa, PhD, Operations Manager**

#### **Background:**

In 2014, the purchase of chemical control products was changed requiring approval of annual purchase of products based on multi-year historical analysis of pesticide usage to predict total product requirements and delivery schedules.

After the approval by the Board of the FY 2018-2019 budget several chemical control products were awarded to the lowest responsible bidders or sole-source suppliers for purchase. That process is complete.

After review and analysis of invasive Aedes surveillance data from over the past several months compared to 2017 mosquito season, intensified control measures will be taken to reduce the population in infested areas surpassing action thresholds and to prevent and slow further spread of this invasive mosquito species. This request is for additional chemical products not included in an earlier staff report specifically required to control container breeding mosquitoes such as *Aedes aegypti*.

PRODUCT	TARGET	TOTAL AMOUNT	COST
ALOSID LIQUID LARVICIDE	MOSQUITO	60 GALLON	\$16,200.00
VECTOBAC WDG	MOSQUITO	2,000 LBS	\$78,800.00
<b>TOTAL</b>			<b>\$95,000.00</b>

#### **Staff Recommendation:**

1. The Operations Department is requesting Board approval to purchase chemical control products in the amount not to exceed \$110,000.00.

#### **Fiscal Impact:**

FY2018-19 Budget <b>7850.01.500.028</b>	Current Available Funds	Proposed Expense	Remaining Available Funds
<b>\$770,500</b>	<b>\$188,738</b>	<b>\$110,000</b>	<b>\$78,738</b>



## Coachella Valley Mosquito and Vector Control District

**September 11, 2018**

### Staff Report

#### **Agenda Item:** New Business

Discussion and/or approval to purchase fourteen (14) vehicles, in an amount not to exceed \$500,000.00, from Capital Replacement Budget Fund #8415.13.300 – utilizing the State of California Contract #1-18-23-20D – **Edward Prendez, Information Technology Manager**

#### **Background:**

This purchase request is for fourteen (14) replacement vehicles, Double Cab Trucks estimated to cost \$28,602.06 each. All fourteen (14) trucks will be full-size and have four-wheel drive and be distributed to the Operations and Surveillance Departments.

The District's Purchasing Policy allows exceptions to competitive bidding when the purchase or contract is directly related to another government agency's purchase order or contract authorized or approved through the respective government agency's competitive bidding procedures. This provision allows the District to piggyback on other government agency contracts including the State of California Contract #1-18-23-20D.

#### **Vehicle Replacement Criteria:**

A weighted point system based on age, usage, type of service, maintenance and repair costs and overall condition of the vehicle is used to determine the vehicles which should be replaced in the upcoming fiscal year.


The points are totaled and vehicles are monitored throughout the year to identify any issues or possible re-assignment to extend the life of the vehicle.

Score Point Ranges	Conclusion
Above 28	Needs immediate consideration
24 to 28 Points	Qualifies for replacement
18 to 23 Points	Keep unit
Under 18 Points	Keep unit

The vehicle replacement strategy is to provide the departments of the Coachella Valley Mosquito & Vector Control District with safe, reliable, economical and environmentally sound transportation.

The Capital Outlay budget item for Fleet Maintenance – vehicle purchases is \$400,428.87 along with estimated outfitting cost \$16,800.

<b>Staff Recommendation:</b>			
Approval to purchase fourteen (14) vehicles utilizing the State of California Contract #1-18-23-20D.			
<b>Fiscal Impact:</b>			
FY2018-19 Budget <b>8513.13.300</b>	Current Available Funds	Proposed Expense	Remaining Available Funds
<b>\$520,000</b>	<b>\$520,000</b>	<b>\$500,000</b>	<b>\$20,000</b>

	<p><b>Coachella Valley Mosquito and Vector Control District</b></p> <p><b>Staff Report</b></p>	<p><b>September 11, 2018</b></p>
<p><b>Agenda Item:</b> New Business</p> <p>Discussion and/or approval of additional employee release day, in place of the District's Annual End of the Year Appreciation Luncheon – <b>Crystal Moreno, Executive Assistant</b></p>		
<p><b>Background:</b></p> <p>In past years, to thank the staff for their service and to honor outstanding employees, the District has held a President's Appreciation Luncheon at the end of the year. The luncheon has traditionally been offsite and included a brief awards presentation</p> <p>In 2013, 2014, 2016, and 2017, the Board opted to give employees an additional day off in place of having an offsite luncheon. Staff is requesting that we continue this tradition for 2018.</p> <p><i>The employee release day would be on Monday, December 24<sup>th</sup>, and would allow staff to have a four day holiday weekend.</i></p>		
<p><b>Staff Recommendation:</b></p> <p><i>That the Board choose what they deem appropriate.</i></p>		