



Coachella Valley
Mosquito and Vector
Control District

43420 Trader Place
Indio, CA 92201
Phone (760) 342-8287
www.cvmvcd.org

Board of Trustees Meeting

Tuesday, May 8, 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. **Roll Call**
4. **Motion to Excuse Absences**
5. **Confirmation of Agenda**
6. **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.
7. **Announcements**
 - Response Plan and Research Policy Update – **Jennifer A. Henke, M.S., Laboratory Manager**
 - Operations Update – **J. Wakoli Wekesa, PhD, Operations Manager**

8. **Board Reports**
- A. President's Report – **President Kaplan**
 - Executive Committee (**Pg. 6**)
 - B. Finance Committee – **Treasurer Weightman**
 - Finance Committee Minutes for April 10, 2018 (**Pg. 8**)
 - Finance Committee Minutes for May 2, 2018 (**Pg. 10**)
9. **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 April 10, 2018, Board Meeting (**Pg. 12**)
 - B. Correspondence (**Pg. 15**)
 - C. Approval of Expenditures for April 10-30, 2018, and May 1-8, 2018 (**Pg. 17**)
 - D. Informational Items:
 - Certificate of Achievement for Excellence in Financial Reporting (**Pg. 25**)
 - Certificate of Recognition of District's 90th Birthday (**Pg. 26**)
 - *Updated* February 2018 Operations (**Pg. 27**)
 - District Travel (**Pg. 28**)
 - Staff reports from:
 - MVCAC Spring Meeting, April 26-27, in Lake Tahoe, CA (**Pg. 29**)
 - E. Department Reports (**Pg. 30**)
 - F. Approval of Resolution 2018-06 Amending the CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan – **Jennifer A. Henke, M.S., Laboratory Manager (Pg. 53)**
 - G. Approval of Resolution 2018-07 Amending the District's Research Policy – **Jennifer A. Henke, M.S., Laboratory Manager (Pg. 57)**
 - H. Approval for purchase of additional mosquito control product for the fiscal year 2017-18, in an amount not to exceed \$198,000 from Fund# 7800.01.500 – **J. Wakoli Wekesa, PhD, Operations Manager (Pg. 65)**
 - I. Approval to sell surplus District property – **Edward Prendez, Information Technology Manager (Pg. 67)**
 - J. Approval for the Annual Renewal of Abila MIP Fund Accounting Maintenance and Support in an amount not to exceed \$6,000 from Fund #7675.01.210, Computer and Network Systems Maintenance Contracts – **Edward Prendez, Information Technology Manager (Pg. 68)**

- K. Approval to upgrade environmental chamber dehumidifiers in an amount not to exceed \$40,000 from Capital Budget– **David I’Anson, Administrative Finance Manager (Pg. 69)**
- L. Approval to send the Laboratory Manager to the Pacific Branch of the Entomological Society of America Conference in Reno, NV June 10-13 in an amount not to exceed \$1,500.00 from Fund #7600.01.400.027, Professional Development – **Jennifer A. Henke, M.S., Laboratory Manager (Pg. 70)**

10. **Old Business**

- A. Discussion regarding the draft 2018-2021 Coachella Valley Mosquito and Vector Control District Strategic Plan – **Jeremy Wittie, MS, General Manager (Pg. 72)**
- B. Update regarding the status of the District’s Thermal facility – **Jeremy Wittie, MS, General Manager (Pg. 73)**

11. **New Business**

- A. Discussion and/or approval for purchase of Unmanned Aerial System (UAS - drone) including staff training and license fees, in an amount not to exceed \$30,573.00 from Fund #7850.01.500.038, Aerial Applications – **J. Wakoli Wekesa, PhD, Operations Manager (Pg. 75)**

12. **Closed Session**

- A. **Closed Session:** Conference with Labor Negotiations District Representatives: Melanie L. Chaney, Negotiator, and Jeremy Wittie, MS, General Manager; Employee Organization: California School Employees Association (“CSEA”), Chapter 2001

13. **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.

14. **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

Certification of Posting

I certify that on May 4, 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 May 4, 2018.

Crystal G. Moreno, Clerk of the Board

SECTION
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BOARD REPORTS

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Executive Committee Meeting Minutes

TIME: 9:00 A.M. APRIL 30, 2018

LOCATION: 43420 Trader Place, Indio, CA 92201

TRUSTEES PRESENT:

Cathedral City	Shelley Kaplan	La Quinta	Doug Hassett
Indian Wells	Clive Weightman	Rancho Mirage	Franz De Klotz

OTHERS PRESENT:

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

1. Call to Order: President Kaplan called the meeting to order at 9:09 A.M.

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

3. Confirmation of Agenda

4. Public Comments: None.

5. ad hoc Research Committee Appointment: Clerk of the Board Moreno reported that an ad hoc Research Committee of three (3) trustees needed to be appointed and six (6) trustees had volunteered. A discussion ensued. The Committee appointed Trustees Kunz, Monroe, and Walker to serve on the ad hoc Research Committee

6. Discussion regarding conducting a Trustee Survey: General Manager Wittie provided a brief overview on wanting to get input from the Committee regarding creating a trustee survey. The survey would be to see what the Board's preferences are in regards to the department reports that are included in the Board Packet. A discussion ensued.

7. Review of Draft May 2018 Board Agenda:

The draft Agenda for the May Board Meeting was reviewed by the Committee. A discussion ensued. The Committee recommended the following changes: amending the title wording for item 9I and adding item 10B to get an update on the District's Thermal property.

8. Closed Session:

- Conference Regarding Upcoming Union Negotiations Pursuant to Government Code § 54957.6

Returning from Closed Session, President Kaplan announced that there was no reportable action.

9. Trustee/Staff Comments: None.

10. Confirmation of Next Meeting Date: The next Executive Committee Meeting was scheduled for June 1, 2018, at 9:00 A.M.

11. Adjournment: The meeting was adjourned by President Kaplan at 9:49 A.M.

DRAFT

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Finance Committee Meeting Minutes

TIME: 4:30 P.M. APRIL 10, 2018

LOCATION: 43420 Trader Place, Indio, CA 92201

TRUSTEES PRESENT:

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

OTHERS PRESENT:

Jeremy Wittie, General Manager
David l'Anson, Administrative Finance Manager
Crystal Moreno, Clerk of the Board

1. **Call to Order:** Treasurer Weightman called the meeting to order at 4:32 p.m.
2. **Roll Call:** Roll call indicated three (3) committee members out of three (3) were present. President Kaplan was also present.
3. **Confirmation of Agenda**
4. **Public/Staff Comments:** None.
5. **Items of General Consent:**
 - 5A – **Approval of Minutes from March 13, 2018, Finance Committee Meeting:** On motion from President Kaplan seconded by Trustee Sanchez, and passed by unanimous vote, the Committee approved the item 5A.
6. **Discussion and/or Approval:**
 - 6A. **Review of Check Report from Abila MIP for the March 14, 2018 to April 4, 2018:** Reviewed by Committee.
 - 6B. **CalCard Charges March 2018:** Reviewed by Committee
 - 6C. **Review of March 2018 Financials and Treasurer's Report:** Reviewed by Committee.
7. **Old Business:**

7A. **Reserve Study Update:**

Administrative Finance Manager l'Anson provided an update on the reserve study. A discussion ensued.

8. New Business:

8A. Draft FY 2018-19 Budget:

Treasurer Weightman led a discussion on the draft FY 2018-19 Budget. A discussion ensued.

9. Schedule Next Meeting: The next Finance Committee Meeting was scheduled for Tuesday, May 1st, at 10:00am.

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

11. Adjournment: The meeting was adjourned by Treasurer Weightman at 5:34 p.m.

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Finance Committee Meeting Minutes

TIME: 12:00 P.M. MAY 2, 2018

LOCATION: 43420 Trader Place, Indio, CA 92201

TRUSTEES PRESENT:

County at Large	Bito Larson	Indian Wells	Clive Weightman
Coachella	Betty Sanchez		

OTHERS PRESENT:

Jeremy Wittie, General Manager
David l'Anson, Administrative Finance Manager
Crystal Moreno, Clerk of the Board

- 1. Call to Order:** Treasurer Weightman called the meeting to order at 12:06p.m.
- 2. Roll Call:** Roll call indicated three (3) committee members out of three (3) were present.
- 3. Confirmation of Agenda**
- 4. Public Comments:** Rancho Mirage resident, Brad Anderson, made a public comment regarding a discrepancy in the February Operations Department Report.
- 5. Discussion regarding Draft FY 2018/19 Budget:** Administrative Finance Manager l'Anson gave a brief introduction to the draft FY 2018/19 budget. A discussion ensued.
- 6. Confirmation of Next Meeting:** The next Finance Committee Meeting was scheduled for Tuesday, May 8th, at 3:00pm.
- 7. Trustee and/or Staff Comments/Future Agenda Items:** None.
- 8. Adjournment:** The meeting was adjourned by Treasurer Weightman at 1:41 p.m.

SECTION
5



ITEMS OF GENERAL CONSENT

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT

Board of Trustees Meeting Minutes

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

LOCATION: 43420 Trader Place, Indio, CA 92201

TRUSTEES PRESENT:

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

Coachella	Betty Sanchez	Palm Desert	Doug Walker
County at Large	Bito Larson	Palm Springs	Dr. Doug Kunz
Desert Hot Springs	Adam Sanchez	Rancho Mirage	Michael Monroe

TRUSTEES ABSENT:

OTHERS PRESENT:

Jeremy Wittie, General Manager
Crystal Moreno, Clerk of the Board
David l'Anson, Administrative Finance Manager
Anita Jones, Human Resources Manager
Jennifer Henke, Laboratory Manager
Edward Prendez, IT Manager
Kim Hung, Vector Ecologist
Olde Avalos, Field Supervisor
Bobbie Dieckmann, Field Supervisor
Mike Martinez, Field Supervisor

1. **Call to Order:** President Kaplan called the meeting to order at 6:02pm.
2. **Pledge of Allegiance:** Trustee Walker led the Pledge of Allegiance.
 - A moment of silence was held for Trustee John B. Stevens.
3. **Roll Call:** Roll call indicated ten (10) Trustees out of ten (10) were present.
4. **Motion to Excuse Absences**
5. **Confirmation of Agenda**

6. Public Comment: Rancho Mirage resident, Brad Anderson, made a public comment regarding a discrepancy in the February Operations Department Report, the fact that the District doesn't record videos of the Board Meetings, and his termination from the District.

7. Announcements:

Public Outreach Update: Public Information Manager Oviatt gave a brief presentation on the District's recent Fight the Bite 5K.

8. Board Reports:

8A – President's Report: President Kaplan commented that the District's 3rd Annual Fight the Bite 5K went really well.

8B – Finance Committee: Finance Committee Met Prior to Board Meeting: Treasurer Weightman reported that the Finance Committee met to review the finances. He reported that the District's expenditures and operations budget were looking good. Treasurer Weightman also reported that the Finance Committee is working on the FY 2018/2019 budget and will be meeting on May 1st, hoping to move closer to bringing the draft budget to the Board for approval.

9. Items of General Consent:

- A. Minutes for March 13, 2018, Board Meeting
- B. Correspondence
- C. Approval of Expenditures for March 13-31, 2018, and April 1-10, 2018
- D. Informational Items:
 - Hiring of one Field Supervisor for the Operations Department
- E. Department Reports
- F. Approval for General Manager Jeremy Wittie, to sign a one year contract extension with Willdan Financial Services, to provide engineering support services for the District's benefit assessment – **David I'Anson, Administrative Finance Manager**

Public Comment: Rancho Mirage resident, Brad Anderson, made public comment's regarding items 9D and 9F.

In regards to item 9D, Mr. Anderson commented that he thought the money would be well spent in adding technicians.

In regards to item 9D, Mr. Anderson commented that he thought taking the firm with the lowest bidder wouldn't be a bad idea.

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

Ayes: Trustees De Klotz, Hassett, Kaplan, Kunz, Larson, Monroe, A. Sanchez, B. Sanchez, Walker, and Weightman.

Noes: None.

Abstained: None.

Absent: None.

10. Old Business:

10A. Discussion regarding the draft 2018-2021 Coachella Valley Mosquito and Vector Control District Strategic Plan: General Manager Wittie

11. New Business: None.

12. Closed Session: None.

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

- Trustee A. Sanchez thanked Field Supervisor Olde Avalos for taking him on a ride along in Desert Hot Springs and taking him to various trap sites. He commented that he found finding Red Imported Fire Ants in the park the most interesting.
- Trustee Hassett commented that he too had enjoyed his ride along with Rod Chamberlain in the past and he recommended that Trustees take the opportunity.

14. Adjournment: The meeting was adjourned by President Kaplan at 7:26 p.m.



Dear Jeremy,

2018

I just wanted to thank you and the board for the beautiful flower arrangement that was sent to the house, and especially to thank all those that attended John's services.

He will truly be missed.

Jacelyn Stevens

From: Oldembour Avalos
Sent: Monday, April 30, 2018 3:05 PM
To: DistrictWideGroup <districtwidegroup@cvmvcd.org>
Subject: Compliment call- Carlos H

Hello all,

We received a phone call from a homeowner (Mrs. Huckfeldt) to give compliment to Carlos H. for delivering mosquito fish for her ornamental pond, today. She mentioned that "Carlos was on time, he was nice, fantastic" and she was happy with the work done by Carlos.

Excellent Carlos! Way to represent the District.

Thank you,

Oldembour Avalos
Field Supervisor

Coachella Valley Mosquito and Vector Control District

Checks Issued for the Period of:

April 11, 2018 to May 2, 2018

Check No	Payable To	Description	Check Amount	Total Amount
-	Payroll Disbursement 4/6/2018	-	174,497.10	
-	Payroll Disbursement 4/20/2018	-	179,966.53	
Pre-Approved Expenditures:				354,463.63
Cash - First Foundation Bank Checking				
41583	Unused	-	-	
41584	CalPERS Healthcare	Cafeteria Plan Expense: 5/1/18-5/31/18	76,934.80	
41585	CalPERS OPEB	OPEB Retiree Healthcare: 3/1/18-4/30/18	52,070.00	
41586	CalPERS Retirement	Retirement Expense: 3/18/18 - 4/14/18	46,423.81	
41587	ICMA Retirement	Deferred Compensation: 3/18/18 - 4/14/18	17,109.98	
41588	Principal Life Insurance Co.	Cafeteria Plan Expense: 5/1/18-5/31/18	10,373.33	
41589	Standard Insurance Company	Cafeteria Plan Expense: 5/1/18-5/31/18	3,049.11	
41590	Vision Service Plan	Cafeteria Plan Expense: 5/1/18-5/31/18	896.54	
				206,857.57
Cash - First Foundation Bank Checking				
41591	US Bank	CalCard	57,009.03	
41592	Airgas Safety	Operating Supplies	387.82	
41593	American Engraving	Reproduction & Printing	710.13	
41594	Car Quest Auto Parts	Specialty Vehicle Parts & Supplies	274.75	
41595	Connection	Maintenance Contracts	4,732.76	
41596	C&R Wellness Works	Employee Assistance Program	280.00	
41597	Daniel's Tire Service	Permits, Licenses & Fees	122.50	
41598	Darwin Chambers	Repair & Maintenance - Lab	2,565.00	
41599	Desert Feed Bag	Operating Supplies	228.27	
41600	Dudek & Associates	Repair & Maintenance - Thermal	4,390.90	
41601	Employee Relations Network	Recruiting/Advertising	60.45	
41602	Equipment Direct	Equipment Parts & Supplies	2,215.56	
41603	Flusters, The	Public Outreach Advertising	800.00	
41604	G & C Smog and Auto Repair	Permits, License & Fees	95.00	
41605	Hassett, Douglas	Trustee Travel	102.46	
41606	Hernandez, Janelle	Promotion and Education	225.00	
41607	Jernigan's Sporting Goods	Safety Expense	579.84	
41608	Liebert Cassidy Whitmore	Attorney Fees-Personnel	1,520.00	
41609	Marlin Business Bank	Contract Services	811.13	
41610	Microix	Maintenance Contracts	1,922.50	
41611	Moreno, Crystal	Tuition Reimbursement	873.00	
41612	Unused	-	-	
41613	Praxair Distribution	Equipment Parts & Supplies	47.28	
41614	Rutan & Tucker	Attorney Fees - General	630.92	
41615	Salton Sea Air Service	Aerial Applications	4,775.00	
41616	SoCo Group	Motor Fuel & Oils	5,701.33	
41617	UPS	Postage	20.42	
41618	U.S. Foods	Chemical Control	1,040.00	
41619	Waxie Sanitary Supply	Maintenance Supplies	259.58	
				92,380.63
Cash - First Foundation Bank Check Run Total to be Approved				
Total Expenditures: April 11, 2018 to May 2, 2018				653,701.83

Shelley Kaplan, President

Clive Weightman, Treasurer

Coachella Valley Mosquito and Vector Control District
FINANCES AT A GLANCE
ALL FUNDS COMBINED
For the Month Ended April 30, 2018

	Beginning of the Month	Change During the Month	End of the Month
INVESTMENTS	\$ 10,948,020	\$ (467,745)	\$ 10,480,275
CASH	\$ 112,120	(9,967)	\$ 102,153
INVESTMENTS & CASH	\$ 11,060,140	\$ (477,712)	\$ 10,582,428
CURRENT ASSETS	1,494,036	\$ 68,982	1,563,018
FIXED ASSETS	10,878,714	\$ -	10,878,714
OTHER ASSETS	4,576,583	\$ -	4,576,583
TOTAL ASSETS	<u>\$ 28,009,474</u>	<u>\$ (408,730)</u>	<u>\$ 27,600,744</u>
TOTAL LIABILITIES	\$ 5,480,822	\$ (88,068)	\$ 5,392,754
TOTAL DISTRICT EQUITY	22,526,614	(318,625)	22,207,989
TOTAL LIABILITIES & EQUITY	<u>\$ 28,007,436</u>	<u>\$ (406,692)</u>	<u>\$ 27,600,744</u>
RECEIPTS		\$ 374,846	
CASH DISBURSEMENTS			
Payroll	\$ 354,464		
General Admin	\$ 498,094		
Total Cash Disbursements		\$ (852,557)	
NON-CASH ENTRIES:		\$ 68,982	
Accrual Modifications -			
Changes in A/P, A/R & Pre-paid insurance			
Change during Month - Excess of Cash over Receipts & Non-Cash Adjustments		<u>\$ (408,730)</u>	

CVMVCD

Cash Journal - deposits
1000 - Cash - Investments
From 4/1/2018 Through 4/30/2018

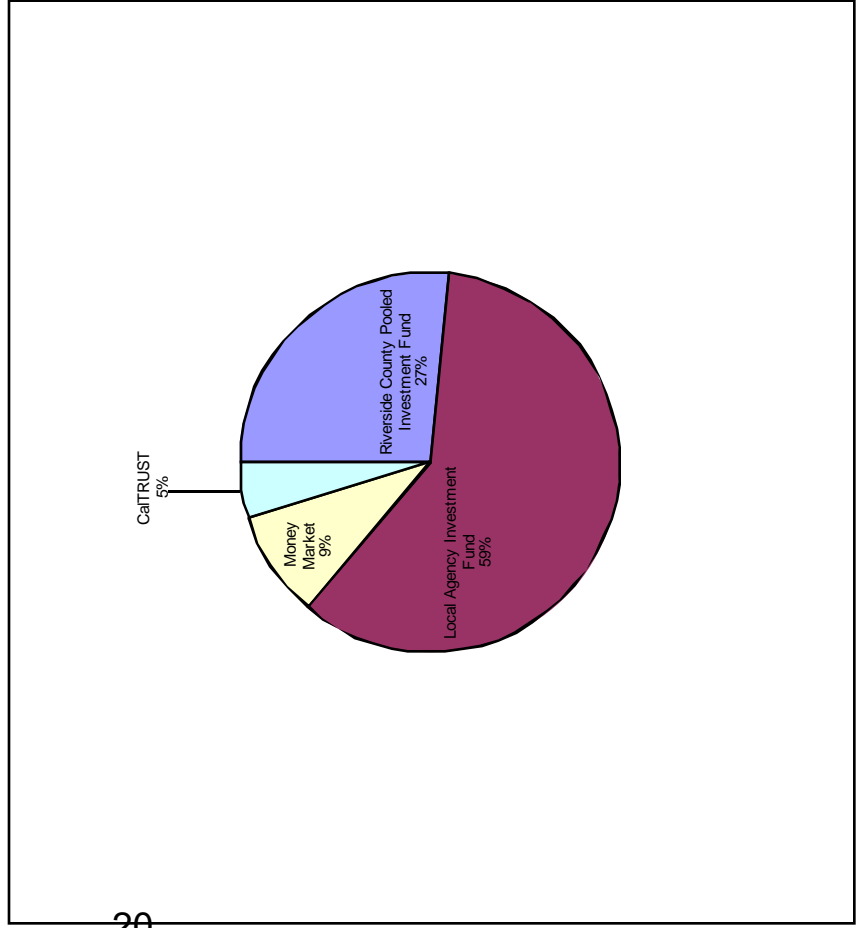
Document N...	ID	Payee/Recipient Name	Transaction Description	Effective ...	Deposits
CD00088	Misc 5K	Misc 5K receipts	April Deposits - 5K Registration	4/12/2018	395.00
CD00086	LAIF	Local Agency Investment Fund	April Deposits - LAIF Interest	4/13/2018	23,147.15
CD00087	Racewire	Racewire	April Deposits - Reimbursement of bank...	4/19/2018	10.00
CD00090	FIRSTFOUN...	First Foundation Bank	April Deposits - Bank Interest	4/30/2018	124.34
CD00085	RIVERSIDE...	Riverside County	Property Tax - Current Secured 10% A...	4/30/2018	351,169.26
Total 1000 - Cash - Investments					374,845.75
Report Total					374,845.75

COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT
INVESTMENT FUND BALANCES AS OF APRIL 30, 2018

INSTITUTION	IDENTIFICATION	Issue Date	Maturity Date	YIELD	General Fund	Thermal Capital Fund	Equipment Fund	BALANCE
Investment Fund Balance								
L.AIF	Common Investments			1.65%	5,705,781	270,034	268,673	\$ 6,244,488
Riverside County	Funds 51105 & 51115			1.63%	2,550,327	120,698	120,089	\$ 2,791,114
CalTRUST	Medium Term Fund			1.49%	449,246	21,261	21,154	\$ 491,661
First Foundation	Market Rate			0.25%	870,797	41,212	41,004	\$ 953,012
Total Investments					9,576,150	453,205	450,920	\$ 10,480,275

PORTFOLIO COMPOSITION AS OF APRIL 30, 2018

WEIGHTED YIELD 1.51%



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 7/1/2017 Through 4/30/2018

		Budget - Original	Current Year Actual	Budget Variance	% Y-T-D
Revenues					
4000	Property Tax - Current Secured	3,698,334.00	2,282,945.91	(1,415,388.09)	61.7%
4010	Property Tax - Curr. Supplmntl	30,000.00	31,570.34	1,570.34	105.2%
4020	Property Tax - Curr. Unsecured	141,427.00	145,598.63	4,171.63	102.9%
4030	Homeowners Tax Relief	46,936.00	20,202.58	(26,733.42)	43.0%
4070	Property Tax - Prior Supp.	18,500.00	23,225.34	4,725.34	125.5%
4080	Property Tax - Prior Unsecured	7,000.00	0.00	(7,000.00)	0.0%
4090	Redevelopment Pass-Thru	4,260,487.00	2,041,149.79	(2,219,337.21)	47.9%
4520	Interest Income - LAIF/CDs	100,000.00	96,331.62	(3,668.38)	96.3%
4530	Other Miscellaneous Receipts	63,000.00	48,148.82	(14,851.18)	76.4%
4551	Benefit Assessment Income	1,620,638.00	<u>884,169.95</u>	<u>(736,468.05)</u>	54.6%
	Total Revenues	<u>9,986,322.00</u>	<u>5,573,342.98</u>	<u>(4,412,979.02)</u>	55.8%
Expenditures					
Payroll Expenses					
5101	Payroll - FT	4,448,098.00	3,387,831.95	1,060,266.05	76.2%
5102	Payroll Seasonal	167,800.00	140,302.75	27,497.25	83.6%
5103	Temporary Services	6,900.00	6,900.00	0.00	100.0%
5105	Payroll - Overtime Expense	42,000.00	15,014.85	26,985.15	35.7%
5150	CalPERS State Retirement	490,340.00	411,191.28	79,148.72	83.9%
5155	Social Security Expense	286,090.00	222,516.79	63,573.21	77.8%
5165	Medicare Expense	66,909.00	53,068.21	13,840.79	79.3%
5170	Cafeteria Plan	1,030,961.00	915,902.32	115,058.68	88.8%
5172	Retiree Healthcare	342,420.00	315,606.88	26,813.12	92.2%
5180	Deferred Compensation	93,153.00	74,933.17	18,219.83	80.4%
5195	Unemployment Insurance	34,669.00	<u>32,351.92</u>	<u>2,317.08</u>	93.3%
	Total Payroll Expenses	<u>7,009,340.00</u>	<u>5,575,620.12</u>	<u>1,433,719.88</u>	79.5%
Administrative Expenses					
5250	Tuition Reimbursement	15,000.00	5,510.73	9,489.27	36.7%
5300	Employee Incentive	6,000.00	5,282.68	717.32	88.0%
5301	Employee Support	4,000.00	3,074.12	925.88	76.9%
5302	Wellness	2,500.00	0.00	2,500.00	0.0%
5305	Employee Assistance Program	2,800.00	2,592.00	208.00	92.6%
6000	Property & Liability Insurance	113,647.00	12,112.83	101,534.17	10.7%
6001	Workers' Compensation Insurance	252,350.00	77,603.70	174,746.30	30.8%
6050	Dues & Memberships	23,530.00	22,503.50	1,026.50	95.6%
6060	Reproduction & Printing	22,600.00	6,356.00	16,244.00	28.1%
6065	Recruitment/Advertising	4,000.00	4,415.10	(415.10)	110.4%
6070	Office Supplies	17,900.00	12,908.67	4,991.33	72.1%
6075	Postage	8,000.00	5,505.37	2,494.63	68.8%
6080	Computer & Network Systems	5,000.00	4,809.40	190.60	96.2%
6085	Bank Service Charges	200.00	69.36	130.64	34.7%
6090	Local Agency Formation Comm.	1,100.00	1,184.22	(84.22)	107.7%
6095	Professional Fees	72,000.00	48,390.43	23,609.57	67.2%
6100	Attorney Fees	81,000.00	76,137.67	4,862.33	94.0%
6106	HR Risk Management	4,500.00	4,500.00	0.00	100.0%
6110	Conference Expense	39,600.00	36,145.50	3,454.50	91.3%
6115	In-Lieu	13,200.00	10,800.00	2,400.00	81.8%
6120	Trustee Support	4,000.00	3,285.39	714.61	82.1%
6200	Meetings Expense	2,000.00	1,321.92	678.08	66.1%

CVMVCD
Statement of Revenue and Expenditures
From 7/1/2017 Through 4/30/2018

		Budget -	Current Year		
		Original	Actual	Budget Variance	% Y-T-D
6210	Promotion & Education	20,000.00	17,226.60	2,773.40	86.1%
6220	Public Outreach Advertising	40,000.00	10,492.25	29,507.75	26.2%
6500	Benefit Assessment Expenses	88,440.00	95,761.11	(7,321.11)	108.3%
	Total Administrative Expenses	843,367.00	467,988.55	375,378.45	55.5%
	Utilities				
6400	Utilities	105,000.00	72,897.18	32,102.82	69.4%
6410	Telecommunications	11,300.00	5,951.44	5,348.56	52.7%
	Total Utilities	116,300.00	78,848.62	37,451.38	67.8%
	Operating				
7000	Uniform Expense	24,450.00	20,859.06	3,590.94	85.3%
7050	Safety Expense	20,550.00	16,659.72	3,890.28	81.1%
7100	Physican Fees	5,000.00	4,830.00	170.00	96.6%
7150	IT Communications	36,200.00	27,937.03	8,262.97	77.2%
7200	Household Supplies	4,000.00	1,883.54	2,116.46	47.1%
7300	Repair & Maintenance	42,000.00	25,634.82	16,365.18	61.0%
7310	Maintenance & Calibration	8,000.00	4,995.75	3,004.25	62.4%
7350	Permits, Licenses & Fees	12,500.00	4,499.70	8,000.30	36.0%
7400	Vehicle Parts & Supplies	29,000.00	22,395.56	6,604.44	77.2%
7420	Offsite Vehicle Maint & Repair	6,000.00	9,240.73	(3,240.73)	154.0%
7450	Equipment Parts & Supplies	19,500.00	11,554.68	7,945.32	59.3%
7500	Small Tools Furniture & Equip	1,700.00	1,080.54	619.46	63.6%
7550	Lab Supplies & Expense	30,500.00	13,992.16	16,507.84	45.9%
7570	Green Pool Surveillance	22,000.00	0.00	22,000.00	0.0%
7575	Surveillance	38,500.00	34,361.31	4,138.69	89.3%
7600	Staff Training	60,200.00	39,862.72	20,337.28	66.2%
7650	Equipment Rental	1,000.00	287.88	712.12	28.8%
7675	Contract Services	153,100.00	100,741.62	52,358.38	65.8%
7700	Motor Fuel & Oils	68,200.00	54,348.56	13,851.44	79.7%
7750	Field Supplies	9,400.00	2,820.67	6,579.33	30.0%
7800	Control Products	772,500.00	386,359.05	386,140.95	50.0%
7850	Aerial Applications	145,500.00	45,625.00	99,875.00	31.4%
8415	Capital Outlay	35,000.00	21,662.93	13,337.07	61.9%
8487	Furniture & Equipment	5,000.00	1,245.09	3,754.91	24.9%
8510	Research Projects	120,000.00	120,000.00	0.00	100.0%
9000	Contingency Expense	154,980.00	0.00	154,980.00	0.0%
	Total Operating	1,824,780.00	972,878.12	851,901.88	53.3%
	Contribution to Capital Reserves				
8900	Transfer to other funds	192,534.00	0.00	192,534.00	0.0%
	Total Contribution to Capital Reserves	192,534.00	0.00	192,534.00	0.0%
	Total Expenditures	9,986,321.00	7,095,335.41	2,890,985.59	71.1%
Net revenue over/(under) expenditures		1.00	(1,521,992.43)		

CVMVCD
Balance Sheet
As of 4/30/2018
(In Whole Numbers)

		<u>Current Year</u>
Assets		
Cash and Investments		
1000	Cash - Investments	10,480,275
1016	Petty Cash	500
1017	Petty Cash Checking	1,500
1025	First Foundation - General	11,967
1026	First Foundation - Payroll	88,186
	Total Cash and Investments	<u>10,582,428</u>
Current Assets		
1080	Interest Receivable	11,730
1085	Inventory	428,402
1168	Prepaid Insurance	80,861
1169	Deposits	1,042,025
	Total Current Assets	<u>1,563,018</u>
Fixed Assets		
1300	Equipment/Vehicles	1,685,368
1310	Computer Equipment	417,111
1311	GIS Computer Systems	301,598
1320	Office Furniture & Equipment	1,206,328
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	(8,861,005)
	Total Fixed Assets	<u>10,878,714</u>
Other Assets		
1520	Resources to Be Provided	3,489,922
1525	Deferred Outflows of Resources	1,086,661
	Total Other Assets	<u>4,576,583</u>
	Total Assets	<u><u>27,600,744</u></u>
Liabilities		
Short-term Liabilities		
Accounts Payable		
2015	Credit Card Payable	55,150
2020	Accounts Payable	9,545
2030	Accrued Payroll	(4,276)
2040	Payroll Taxes Payable	(1,296)
2175	Claims/Judgements Payable	(144)
2185	Employee Dues	(29)
	Total Accounts Payable	<u>58,949</u>

CVMVCD
Balance Sheet
As of 4/30/2018
(In Whole Numbers)

		<u>Current Year</u>
	Total Short-term Liabilities	<u>58,949</u>
	Long-term Liabilities	
2100	Pollution Remediation Obligati	2,100,000
2110	OPEB Obligation	1,032,754
2200	Net Pension Liability	1,392,005
2210	Deferred Inflows of Resources	229,218
2500	Compensated Absences Payable	<u>579,827</u>
	Total Long-term Liabilities	<u>5,333,805</u>
	Total Liabilities	<u>5,392,754</u>
	Fund Balance	
	Non Spendable Fund Balance	
3920	Investment in Fixed Assets	10,698,793
3945	Reserve for Prepaids & Deposit	1,053,466
3960	Reserve for Inventory	<u>304,047</u>
	Total Non Spendable Fund Balance	<u>12,056,306</u>
	Committed Fund Balance	
3965	Public Health Emergency	<u>3,328,774</u>
	Total Committed Fund Balance	<u>3,328,774</u>
	Assigned Fund Balance	
3910	Reserve for Operations	5,991,793
3925	Reserve for Future Healthcare Liabilities	994,582
3955	Thermal Remediation Fund	452,244
3970	Reserve for IT Replacement	195,714
3971	Reserve for Vehicle Replacement	762,192
3985	Reserve for Facility Capital Improvements	<u>994,582</u>
	Total Assigned Fund Balance	<u>9,391,107</u>
	Unassigned Fund Balance	
3900	Fund Equity	<u>(531,750)</u>
	Total Unassigned Fund Balance	<u>(531,750)</u>
	Current YTD Net Income	<u>(2,036,448)</u>
	Total Current YTD Net Income	<u>(2,036,448)</u>
	Total Fund Balance	<u>22,207,989</u>
	Total Liabilities and Net Assets	<u><u>27,600,744</u></u>



Government Finance Officers Association

**Certificate of
Achievement
for Excellence
in Financial
Reporting**

Presented to

**Coachella Valley Mosquito
and Vector Control District
California**

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

June 30, 2017

Christopher P. Morill

Executive Director/CEO



CERTIFICATE OF RECOGNITION

Presented to

*Coachella Valley Mosquito and Vector
Control District*

In Recognition of

90th Birthday

On behalf of the California State Assembly, this Certificate of Recognition is presented to the Coachella Valley Mosquito and Vector Control District in honor of your 90th Birthday Celebration. Thank you for your service and commitment to "Fighting the Bite" and raising awareness about threats from mosquitos to our residents.

Congratulations and best wishes on your continued success.



March 24, 2018

CHAD MAYES
42ND ASSEMBLY DISTRICT
CALIFORNIA STATE LEGISLATURE

Mosquito Habitats Treated

Operations

2/1/2018 to 2/28/2018 Report



42 Agriculture APPLICATIONS

Applications	FORMULATION: DRY	Acreage
6	Bs/Bti	3.08
3	Bti	4.30
5	Methoprene	4.50
14	Spinosad	3.58
Applications	FORMULATION: LIQUID	Acreage
9	Methoprene	2.20
5	Spinosad	0.95

(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 thuringienis 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, *Saccharopolyspora spinosa*



27 Duck Club APPLICATIONS

Applications	FORMULATION: DRY	Acreage
1	Bs/Bti	0.35
5	Bti	10.82
10	Spinosad	12.92
Applications	FORMULATION: LIQUID	Acreage
5	Bti	2.46
4	Methoprene	2.08
2	Spinosad	0.27



483 Invasive Aedes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
146	Bti	1.04
Applications	FORMULATION: LIQUID	Acreage
146	Barrier	1.04
191	Fogging	71.71



747 Residential APPLICATIONS

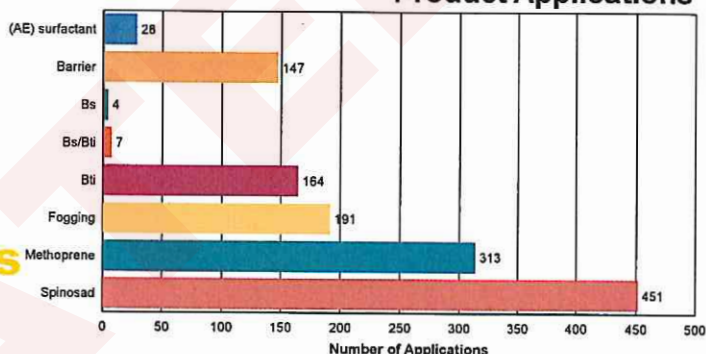
Applications	FORMULATION: DRY	Acreage
4	Bs	0.00
5	Bti	0.01
259	Methoprene	0.86
370	Spinosad	1.39
Applications	FORMULATION: LIQUID	Acreage
28	(AE) surfactant	0.09
1	Barrier	0.10
32	Methoprene	0.48
48	Spinosad	1.68



6 Salton Sea Marshes APPLICATIONS


Applications	FORMULATION: DRY	Acreage
3	Methoprene	2.68
1	Spinosad	0.75
Applications	FORMULATION: LIQUID	Acreage
1	Methoprene	0.01
1	Spinosad	0.02


Product Applications



Product Breakdown

		Total		
		Count	Acreage	Cost
FORMULATION: DRY	Total	832	46.29	\$5,224.23
	Bs	4	0.00	\$7.48
	Bs/Bti	7	3.43	\$351.42
	Bti	159	16.16	\$410.11
	Methoprene	267	8.05	\$2,482.73
	Spinosad	395	18.65	\$1,972.49
FORMULATION: LIQUID	Total	473	83.09	\$8,463.90
	(AE) surfactant	28	0.09	\$3.61
	Barrier	147	1.14	\$8,256.08
	Bti	5	2.46	\$11.53
	Fogging	191	71.71	\$69.15
	Methoprene	46	4.77	\$39.12
	Spinosad	56	2.92	\$84.42

	<p>Coachella Valley Mosquito and Vector Control District</p> <p>Staff Report</p>	<p>May 8, 2018</p>
<p>Agenda Item: Informational Item</p> <p>District Travel – Crystal G. Moreno, Executive Assistant/Clerk of the Board</p>		
<p>Background:</p> <p>September 24-27, 2018: CSDA Annual Conference (Indian Wells, CA) ~ “The CSDA Annual Conference & 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>Requests to attend must be made by the SEPTEMBER 2018 BOARD MEETING.</p>		

	<p>Coachella Valley Mosquito and Vector Control District</p> <p>Staff Report</p>	<p>May 8, 2018</p>
<p>Agenda Item: Informational Item</p> <p>Staff report from:</p> <ul style="list-style-type: none"> • MVCAC Spring Meeting, April 26-27, 2018 in Lake Tahoe, CA 		
<p>Report:</p> <p>The spring quarterly meeting of the MVCAC is a time when the committees that serve to complete specific tasks within the organization meet to update the Board of Directors and the members of MVCAC on their activities. Committees address state wide issues that impact mosquito and vector control districts from surveillance and control to legislation.</p> <p>Staff from the District serve on:</p> <ul style="list-style-type: none"> • Information Technology Committee – Edward Prendez • Laboratory Technologies Committee – Kim Hung • Legislative Committee – Jeremy Wittie, <i>Board Liaison</i> • Public Relations Committee – Jill Oviatt, <i>Chair</i> • Regulatory Affairs Committee – Jennifer Henke, <i>Chair</i> • Vector Control Research Committee – Wakoli Wekesa, <i>Chair</i>; Jennifer Henke, and Jeremy Wittie, <i>Board Liaison</i>. • Vector and Vector-borne Disease Committee – Kim Hung • MVCAC Treasurer – David l'Anson • MVCAC Vice President Elect – Jeremy Wittie • Trustee Council Southern Region Representative – Doug Hassett <p>ATTENDEES:</p> <p>Jeremy Wittie, District Manager Jennifer Henke, Laboratory Manager Jill Oviatt, Public Information Manager Wakoli Wekesa, Operations Manager Kim Hung, Vector Ecologist</p>		

FINANCE

The financial reports show the balance sheet, receipts, and the revenue and expenditure reports for the month ending April 30, 2018. The revenue and expenditure report shows that the operating budget expenditure for July 1, 2017 to April 30, 2018 is \$7,095,335; total revenue is \$5,573,343 resulting in excess revenue over (under) expenditure for the year to April 30, 2018 of \$(1,521,992).

THREE YEAR FINANCIALS

	4/30/2018	4/30/2017	4/30/2016
Total Revenue	5,573,343	4,961,159	4,739,197
Expenses			
Payroll	5,575,620	5,182,177	5,246,520
Administrative Expense	467,989	475,808	461,305
Utility	78,849	93,904	88,028
Operating Expense	972,878	1,426,601	1,084,144
Total Expenses	7,095,335	7,178,490	6,879,997
Profit (Loss)	(1,521,992)	(2,217,331)	(2,140,800)
Capital Expenses	-	496	80,838

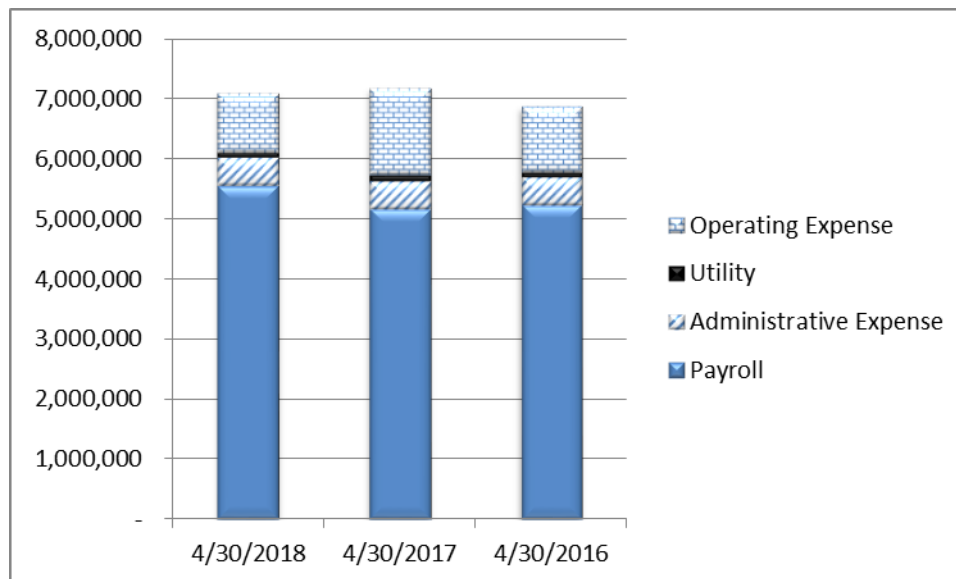


Figure 1 Three Year Expenditure

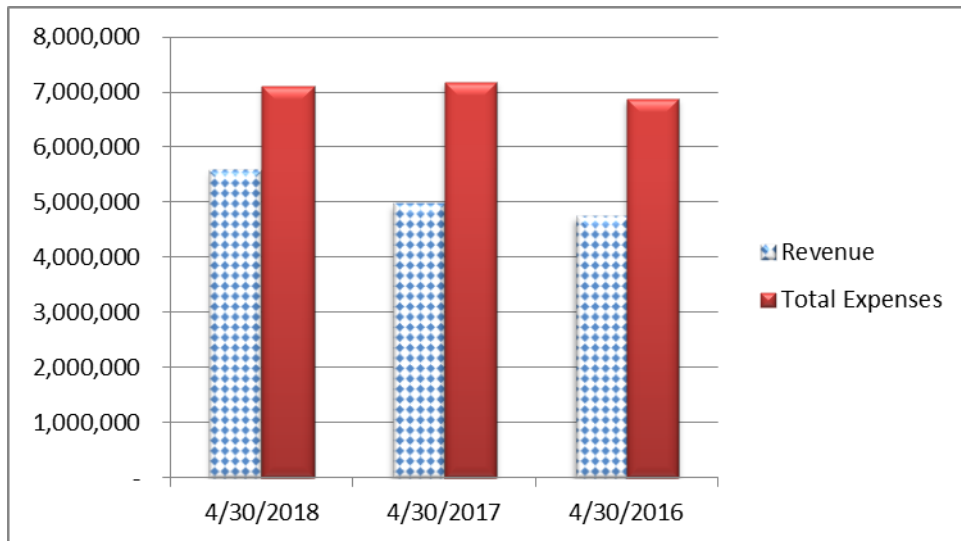


Figure 2 Three Year Revenue & Expenditure

THREE YEAR CASH BALANCE

CASH BALANCES	4/30/2018	4/30/2017	4/30/2016
Investment Balance	10,480,275	10,283,992	10,726,844
Checking Accounting	11,967	(88,280)	5,088
Payroll Account	88,186	262,454	66,096
Petty Cash	2,000	2,000	2,000
TOTAL CASH BALANCES	10,582,428	10,460,166	10,800,029

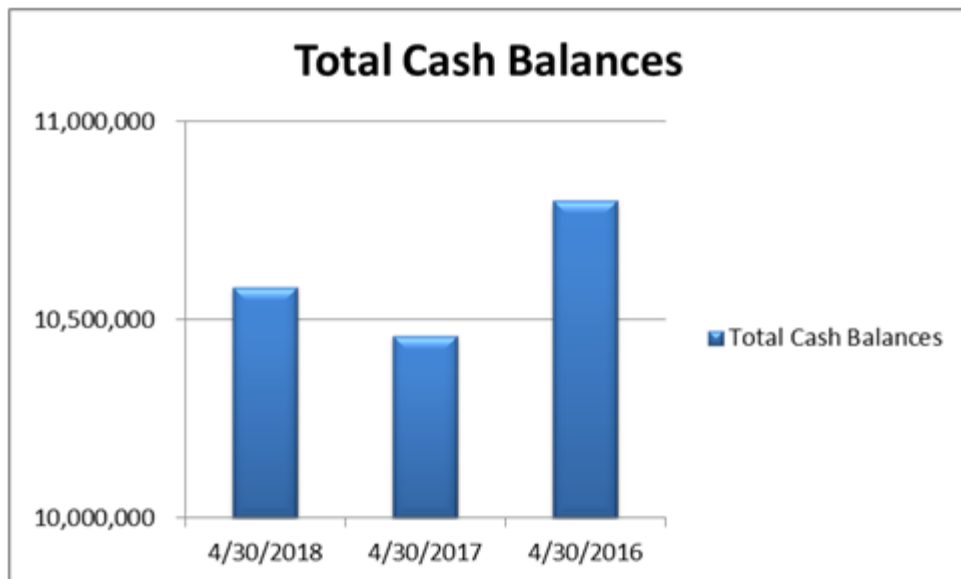


Figure 3 Cash Balances

DISTRICT INVESTMENT PORTFOLIO 4/30/2018

The District's investment fund balance for the period ending April 30, 2018 is \$10,480,275. The portfolio composition is shown in the pie chart. Local Agency Investment Fund (LAIF) accounts for 59% of the District's investments; the Riverside County Pooled Investment Fund is 27% of the total.

The LAIF yield for the end of April was 1.65% and the Riverside County Pooled Investment Fund was 1.63%; this gives an overall weighted yield for District investments of 1.51%.

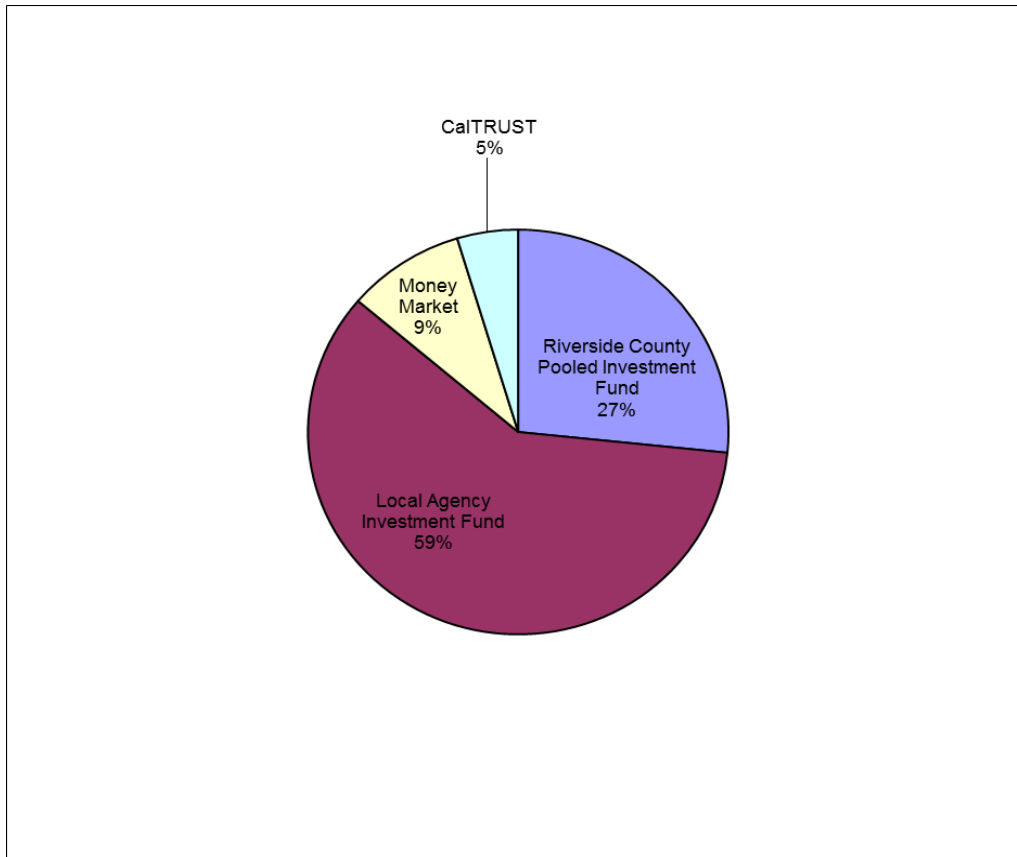


Figure 4 Investment Portfolio 4-30-18

	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	1.51								

Figure 5 District Investments Weighted Yield

Human Resources

Recruitment

Recruitment has begun for the position of Field Supervisor.

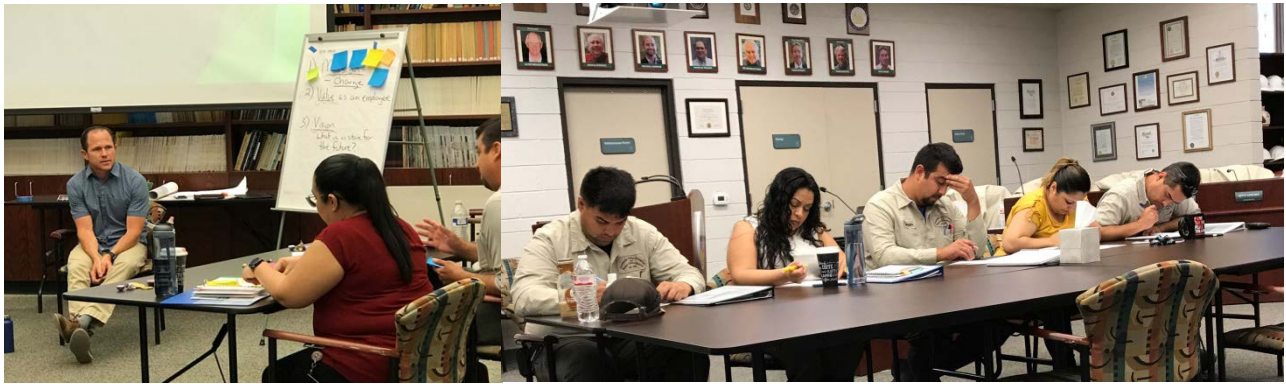
New Employee

The following Seasonal employees began work in March and April:

<i>Jesus Giron</i>	<i>Michael Silva</i>
<i>Barbara Gerardo</i>	<i>Carlos Torres</i>

Beyond the Bite Academy

The District's second annual Beyond the Bite Academy began on April 4th. Members of this year's class are: Vector Technicians *Gonzalo Valadez*, *Vincent Valenzuela*, *Miguel Vargas*, and *Jonathan Zamaniego*; Accounting Technician *Veronica Montoya*; and Administrative Clerk *Abelina Torres*. The Academy training program is designed to provide relevant training, in alignment with organizational needs, through which individual skills are developed and performance is enhanced.



Public Outreach Department

Fight the Bite 5K: The District held its 3rd annual mosquito awareness walk/run and Community Resource Fair at Rancho Mirage Community Park. We had great support from community, with 175 people registered for the race (the largest number to date), 13 local businesses donating food, water, and other items; 12 local agencies/organizations hosted a booth, including Riverside County Public Health, and the cities of Indio, La Quinta, and Rancho Mirage. CAL FIRE Riverside sent two units to the park to provide first aid to runners. Coachella Valley High School sent 10 students and Rancho Mirage High School two students to hand out food, water, and finisher medals. Newspaper, digital, radio, and TV ads reached thousands, more raising awareness about mosquito threats. General Manager, *Jeremy Wittie*, Public Information Manager, *Jill Oviatt*, and Public Outreach Coordinator, *Edgar Castro* gave interviews on English and Spanish radio and TV stations to talk about mosquito-borne threats and promote the race. *Edgar* promoted the race at Indio and La Quinta city council meetings, and at the Mecca/North Shore Community Council meeting. District Board President *Shelley Kaplan* presented a proclamation recognizing the District's 90 years



The start line at the Fight the Bite 5K with emcee Bill Feingold of KNEWS Radio.

of service to the community and Trustees *Doug Hassett*, *Michael Monroe*, and *Doug Walker* were present to support the event.

Mosquito Awareness Week April 15-21: The District distributed mosquito awareness materials to all Coachella Valley City Halls, libraries, and community and wellness centers; *Edgar* hosted an Indio health fair to speak to residents about mosquito source prevention; we provided materials to Riverside County Public Health for distribution at an Infectious Disease Conference in Palm Springs with more than 100 local medical providers; Vector Ecologist, *Kim Hung*, and *Jill* organized a "Scorpion Hunt" in a Indio HOA community to demonstrate best practices for bark scorpion removal and mosquito prevention. Participating residents received mosquito awareness materials and a free scorpion hunt kit. More than 60 people took part.



Vector Ecologist Kim Hung trains residents on scorpion removal.

Legislative Outreach: *Jeremy*, *Jill*, and Trustees *Hassett* and *Monroe* attended Legislative Day in Sacramento in March. *Jill* worked with KP Public Relations and the MVCAC PR Committee to produce legislative day materials provided to legislators and also talking points for participants when meeting with legislators. *Jill* also facilitated training for



District legislative team in front of the governor's office.

MVCAC participants. The District team met with state elected officials *Eduardo Garcia, Chad Mayes, and Jeff Stone*.

Working with Schools: Coachella Valley High School student *Alex Franco* finished his job shadow program at the District. *Alex* and a team of students presented their work with the District and the Medical Reserve Corp at the 2018 HOSA (Health Occupations Students of America) State Leadership Conference in Anaheim and earned the school's first ever gold medal at the competition.



Coachella Valley High School team at HOSA Leadership Conference.

Advertising: The District kicked off its new mosquito awareness campaign “Dump it. Drain it. Scrub it Clean. Your Weekly Mosquito Prevention Routine” with a jingle and District staff demonstrating how to rid yards of standing water and mosquito breeding sources as part of a weekly routine.

Vector Control Technician Continuing Education: District certified staff attended a two-day live continuing education programming in Riverside as part of their state recertification requirements, where they learned about the trending topics and current challenges in vector control. *Jill* worked with San Gabriel Valley Mosquito and Vector Control District staff to organize the speakers and logistics for the event. *Edgar* helped with recording attendance for the program. *Jill*, Laboratory Manager *Jennifer Henke*, and Field Supervisor *Michael Martinez* gave presentations as part of the program.



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 4/20/2018) ARBOVIRUS SURVEILLANCE TESTING – CALIFORNIA

	WNV – Positive 2018 YTD	WNV - Positive 2017 YTD	WNV – 5 year Average	WEE 2018 YTD	SLE 2018 YTD
Positive Counties	2	3	5	0	0
Human Cases	0	0	0	0	0
Positive Dead Birds / # Tested	4/123	3/93	6	0	0
Positive Mosquito Pools / # Tested	0/3,385	1/1,506	0	0	0

2018	Chikungunya	Dengue	Zika
Mosquito Pools YTD (positive/total tested)	0/34	0/34	0/34

ARBOVIRUS SURVEILLANCE TESTING – COACHELLA VALLEY

		2018 YTD	2017 YTD	5 YEAR AVERAGE YTD
	MARCH/APRIL			
HUMANS	0	0	0	0
DEAD BIRDS	0	0	0	0
MOSQUITO POOLS	WNV	1	0	0.8
	SLE	0	0	0
	# TESTED	838	1,092	7,868

ENDEMIC MOSQUITO SURVEILLANCE

CO₂ TRAPS

During the normal mosquito season (March through mid-November) the District Laboratory staff maintains 102 CO₂ (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. CO₂ 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.

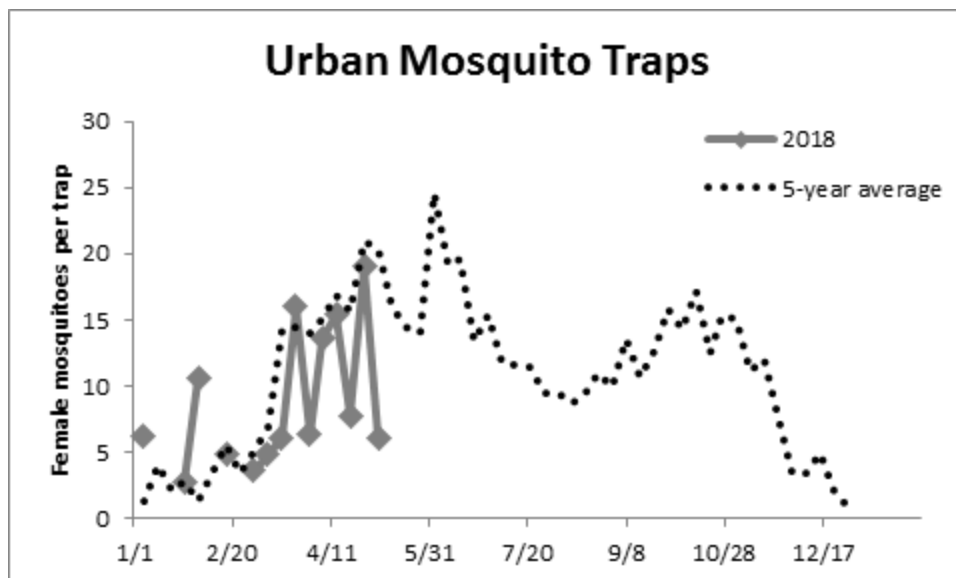


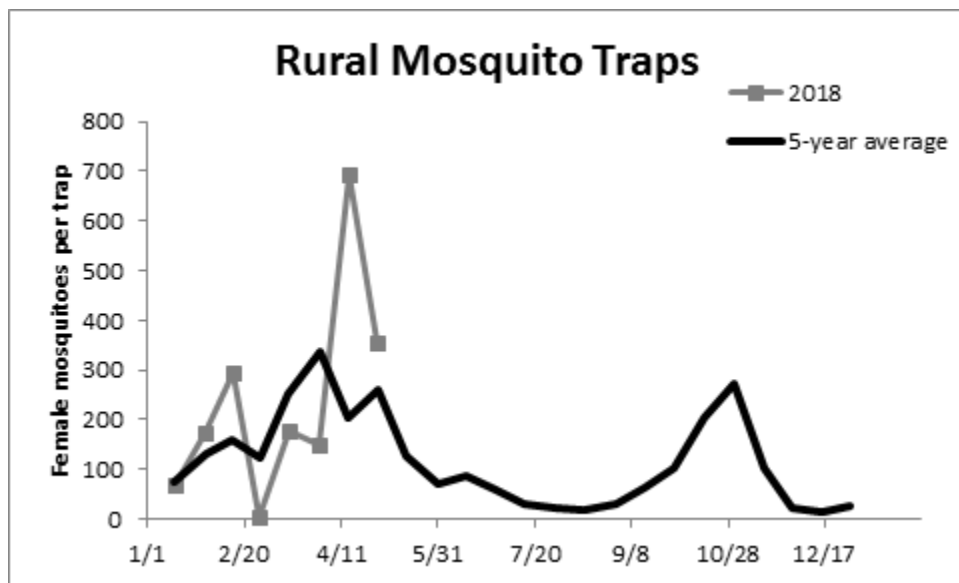
Gravid Traps

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



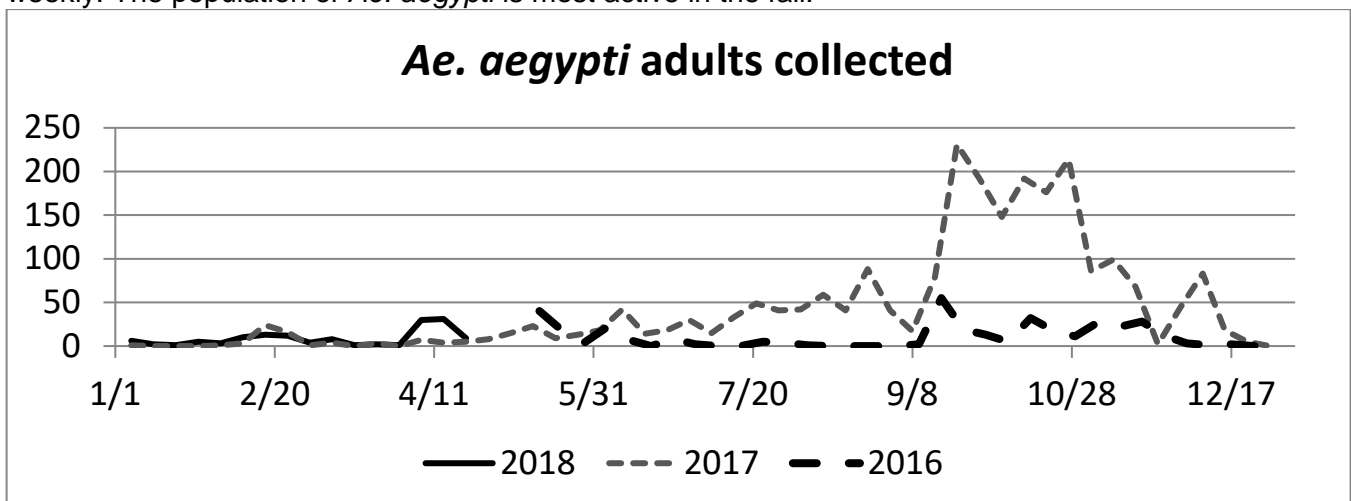


EXOTIC MOSQUITO SURVEILLANCE

Aedes aegypti has been detected 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 at 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).



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 three formulations of Bti products in March (VectoMax FG, VectoBac G, and Aquabac 200G); all three had 100% larval mortality in the assays.

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 3 of the 7 products in microcosm ponds at this time and has determined their effectiveness as compared to the products that are only available to licensed vector control technicians. Further trials on the remaining products are being tested.

CONSUMER PRODUCT	DISTRICT PRODUCT	MORTALITY RESULTS (3 days after treatment)		MORTALITY RESULTS (>7 days after treatment)	
		Consumer	District	Consumer	District
EcoRaider™ Mosquito Larvicide/Pupacide (2% Geraniol, 2% Cedarwood oil, 4% Sodium lauryl sulfate)	Coco Bear Mosquito Larvicide/Pupacide (10% mineral oil)	<u>EcoRaider</u> 9 5.3%	<u>CocoBear</u> 9 8.5%	<u>EcoRaider</u> 33%	<u>CocoBear</u> 90%
Mosquito Beater WSP® Mosquito Granular Larvicide in Water Soluble Pouches (1.7% Bti)	VectoMax WSP Mosquito Granular Larvicide in Water Soluble Pouches (4.5% Bti)	<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%
Summit Mosquito Bits® Mosquito Granular Larvicide (2.86% Bti)	VectoBac G Mosquito Granular Larvicide (2.80% Bti)	<u>Summit Mosquito Bits</u> 100%	<u>VectoBac G</u> 100%	<u>Summit Mosquito Bits</u> 96.5%	<u>VectoBac G</u> 84%

EVERGREEN ULV APPLICATIONS. District staff began evaluations of EverGreen ULV 5-25 (pyrethrin and piperonyl butoxide) for use in adulticide treatments. The first of three rates has been tested against lab-reared mosquitoes (which should be susceptible to all products) and wild caught mosquitoes. The resistance assays that the staff conduct annually have shown that there is a trend towards resistance to the pyrethrins and pyrethroids, so evaluating the effectiveness of any product against the wild mosquitoes is important in ensuring that treatments will be effective. The first rate worked well against both lab-reared and wild mosquitoes.

BIOLOGICAL CONTROL

MOSQUITOFISH (*Gambusia affinis*)

As of April 18, 2018, the District produced 25,000 mosquitofish which is fewer than what was produced in the first four months of 2017. About 16,500 fish were stocked in neglected swimming pools, private ponds, detention basins, and animal water troughs.

DEPARTMENT WORK

TRAP EVALUATION. Kim Hung evaluated the impact of adding CO₂ traps to the urban trap locations. Prior to 2015, the urban trap locations were set with gravid traps to collect *Cx. quinquefasciatus*, and rural locations were set with CO₂ traps for *Cx. tarsalis*. In areas close to rural sites, we would find *Cx. quinquefasciatus* in the CO₂ traps. In March 2015, CO₂ traps were added to each trap site to determine whether this would improve trap capture and virus detection in the urban areas. Kim examined the records from 2015-2017. She found that in general, mosquito samples which were positive for virus came from traps that collected more mosquitoes. In no area did the gravid traps outperform the CO₂ traps, and the removal of the CO₂ traps could lead to not collecting enough mosquitoes for virus tests. Given the low cost of running the additional traps and the information added, we plan to continue using both traps at urban locations.

Operations Department Update

General Control Overview

The Operations Department activities completed in the month of March:

- 4,030 mosquito inspections (March 2017 = 3,419 inspections)
- 1,967 control applications on 217.30 acres (March 2017 = 1,980 applications)

In the month of April Operations personnel completed:

- 3,891 mosquito inspections (April 2017 = 3,018 inspections)
- 2,610 control applications on 1,106 acres (April 2017 = 2,518 applications)

Operations Department conducted 4,030 mosquito inspections in March 2018 compared to 3,891 in April. Over the same months in 2017, 3,419 inspections were conducted in March compared to 3,018 in April. A total of 1,967 control applications (treatments) were applied over 217 acres in March compared to 2,610 control treatments over 1,106 acres in the month of April. The acreage for applications was higher in April reflecting the larger area where aerial larvicide application was conducted along the shoreline to reduce the anticipated surge in adult mosquito counts. Similar observations were reported in 2017 as there were 1,980 control treatments in March of last year compared to 2,518 control treatments April. The total inspections and control treatments were a slightly higher in 2018 compared to 2017 reflecting the program changes implemented on March 5, 2018.

The Operations Department program changes designating regular zone operation work to 18 vector control technicians covering 14 urban zones and 4 rural and agricultural zones. Two full time technicians manning Red Imported Fire Ants (RIFA) and two others leading the Invasive *Aedes* monitoring and control program; each of the two latter programs is supported by five seasonal employees. The focus and attention to detail is being brought to each of the three program areas in the department. The department expects to harness efficiencies within the Invasive *Aedes*, RIFA and regular zone control programs. The inspections, treatments, and re-inspections should continue to increase with ultimate goal of reducing trap counts and both mosquito and RIFA activities within neighborhoods and communities throughout the District.

The RIFA program in the month of March 2018 had 237 inspections, 190 control applications on 1,617 acres and in the month of April had 260 inspections, 245 control applications on 1,721 acres. The

increase in inspections, treatment and acreage for the month April over March was marginal however the overall activity for the program is reasonably robust reflecting the efforts of a dedicated RIFA crew. The focus of the program is to work larger properties including schools, public parks, golf courses, and country clubs encouraging large property owners to develop their RIFA programs with Zone technicians doing initial response to service requests leaving the bulk of the work to the RIFA program personnel.

In the month of March 2018 the Operations Department completed 170 Service Requests (SR) from residents compared to 205 Service Requests in April 2018. Overall number of service requests for March and April 2108 was lower than those of similar months in 2017 by more than 100 SR for each month (March 2017 – 276 SR, April 2017 – 317 SR) reflecting the mild temperature and weather condition for Coachella Valley for this time of year in 2018 compared to 2017.

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 March registered 498 invasive *Aedes* inspections and 756 inspections in April 2018. The inspections and treatments for the month of March and April 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. A total of 228 treatments against *Aedes aegypti* were conducted in the month of March and 440 treatments in April 2018. Inspections and treatments are anticipated to increase in the coming months.

Mosquito Habitats Treated

Operations

3/1/2018 to 3/31/2018 Report



80 Agriculture APPLICATIONS

Applications	FORMULATION: DRY	Acreage
31	Bs/Bti	20.02
2	Bti	0.95
6	Methoprene	2.68
22	Spinosad	29.29
Applications	FORMULATION: LIQUID	Acreage
1	Bti	4.00
9	Methoprene	2.53
9	Spinosad	0.43



11 Duck Club APPLICATIONS

Applications	FORMULATION: DRY	Acreage
5	Bs/Bti	2.80
2	Bti	1.30
2	Spinosad	1.37
Applications	FORMULATION: LIQUID	Acreage
2	Methoprene	3.15



228 Invasive Aedes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
89	Bti	0.41
Applications	FORMULATION: LIQUID	Acreage
91	Barrier	0.41
47	Fogging	13.81



1,634 Residential APPLICATIONS

Applications	FORMULATION: DRY	Acreage
7	Bs	0.02
29	Bs/Bti	0.07
58	Bti	0.20
571	Methoprene	1.84
573	Spinosad	1.86
Applications	FORMULATION: LIQUID	Acreage
61	(AE) surfactant	0.28
102	Bti	0.94
102	Methoprene	0.52
131	Spinosad	0.64



14 Salton Sea Marshes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
4	Bs/Bti	15.55
1	Methoprene	1.25
Applications	FORMULATION: LIQUID	Acreage
5	Methoprene	2.27
4	Spinosad	0.05

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

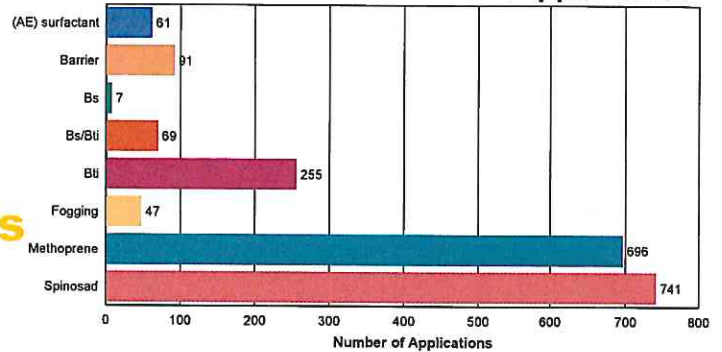
BS (*Bacillus sphaericus*) - soil-dwelling bacterium, used as a biological pesticide that during sporulation produce crystals that have insecticidal action when ingested by mosquito larvae

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, *Saccharopolyspora spinosa*

Product Applications



Product Breakdown

		Total		
		Count	Acreage	Cost
FORMULATION: DRY	Total	1,403	79.61	\$9,443.18
	Bs	7	0.02	\$29.78
	Bs/Bti	69	38.44	\$3,197.91
	Bti	152	2.86	\$90.62
	Methoprene	578	5.76	\$1,973.23
	Spinosad	597	32.52	\$4,151.64
FORMULATION: LIQUID	Total	564	29.05	\$3,556.30
	(AE) surfactant	61	0.28	\$11.28
	Barrier	91	0.41	\$3,415.81
	Bti	103	4.94	\$23.45
	Fogging	47	13.81	\$13.50
	Methoprene	118	8.47	\$69.33
	Spinosad	144	1.13	\$22.93

Mosquito Habitats Treated

Operations

4/1/2018 to 4/30/2018 Report



120 Agriculture APPLICATIONS

Applications	FORMULATION: DRY	Acreage
30	Bs/Bti	8.63
4	Bti	1.30
8	Methoprene	8.02
39	Spinosad	59.76
Applications	FORMULATION: LIQUID	Acreage
1	(AE) surfactant	0.14
9	Bti	1.68
7	Methoprene	3.02
22	Spinosad	8.58



13 Duck Club APPLICATIONS

Applications	FORMULATION: DRY	Acreage
7	Bs/Bti	16.73
2	Bti	1.14
4	Spinosad	7.08



439 Invasive Aedes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
155	Bti	1.09
1	Spinosad	0.00
Applications	FORMULATION: LIQUID	Acreage
155	Barrier	1.09
128	Fogging	42.50



2,006 Residential APPLICATIONS

Applications	FORMULATION: DRY	Acreage
4	Bs	0.01
132	Bs/Bti	0.58
171	Bti	0.55
461	Methoprene	1.21
625	Spinosad	3.26
Applications	FORMULATION: LIQUID	Acreage
91	(AE) surfactant	0.31
253	Bti	4.32
110	Methoprene	0.56
159	Spinosad	128.57



32 Salton Sea Marshes APPLICATIONS

Applications	FORMULATION: DRY	Acreage
14	Bs/Bti	229.45
6	Bti	5.44
5	Spinosad	16.50
Applications	FORMULATION: LIQUID	Acreage
4	Bti	1.01
1	Methoprene	0.07
2	Spinosad	0.57

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

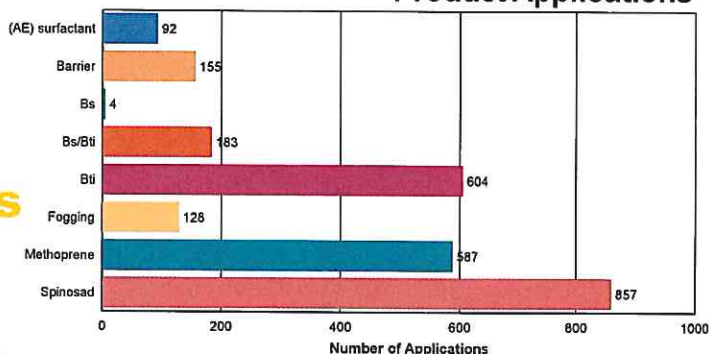
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Methoprene - used as a biological pesticide that mimics natural juvenile hormone of insects and acts as a growth regulator. Juvenile hormone must be absent from mosquito pupa to molt to an adult. Mosquito pupae treated with Methoprene will be unable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

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

Product Applications



Product Breakdown

		Total		
		Count	Acreage	Cost
FORMULATION: DRY	Total	1,668	360.74	\$37,035.44
	Bs	4	0.01	\$13.02
	Bs/Bti	183	255.38	\$21,309.89
	Bti	338	9.52	\$264.64
	Methoprene	469	9.23	\$3,060.88
	Spinosad	674	86.60	\$12,387.00
FORMULATION: LIQUID	Total	942	192.41	\$9,094.19
	(AE) surfactant	92	0.44	\$17.59
	Barrier	155	1.09	\$8,702.27
	Bti	266	7.01	\$38.37
	Fogging	128	42.50	\$40.87
	Methoprene	118	3.65	\$29.75
	Spinosad	183	137.72	\$265.34

Operations

3/1/2018 to 3/31/2018 Report



52 Country Club

APPLICATIONS

324.06 ACRES TREATED
50 BROADCAST TREATMENTS
2 SPOT TREATMENTS



10 Golf Course

APPLICATIONS

1,144.64 ACRES TREATED
10 BROADCAST TREATMENTS



104 Homeowner

APPLICATIONS

35.06 ACRES TREATED
103 BROADCAST TREATMENTS
1 SPOT TREATMENTS



21 Park

APPLICATIONS

112.63 ACRES TREATED
21 BROADCAST TREATMENTS



3 School

APPLICATIONS

23,086.80 SQFT TREATED
3 BROADCAST TREATMENTS

Red Imported Fire Ant



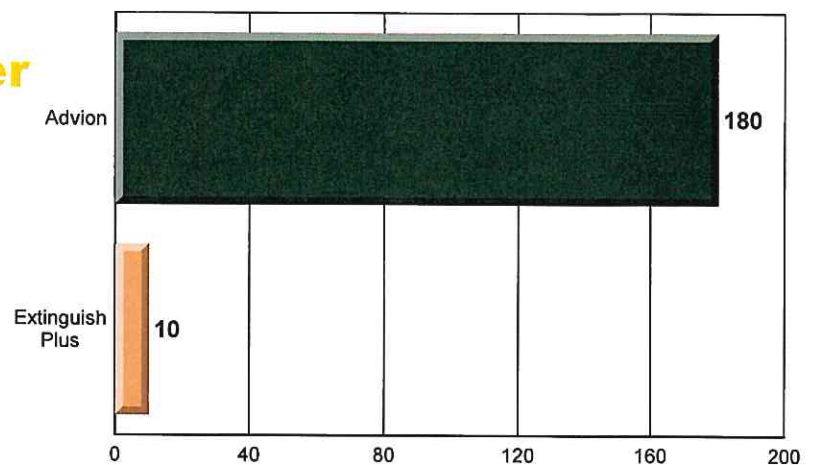
Scientific classification

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

Binomial name

Solenopsis invicta
(Buren, 1972)

Product Applications



Number of Applications

Product Breakdown

		Advion	Extinguish Plus
Total	Acreage	472.28	1144.64
	Amount (lbs.)	708.43	1,717.05
	Cost	\$ 6,701.73	\$ 11,057.80

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

4/1/2018 to 4/30/2018 Report



44 Country Club

APPLICATIONS

362.48 ACRES TREATED
44 BROADCAST TREATMENTS



13 Golf Course

APPLICATIONS

993.30 ACRES TREATED
13 BROADCAST TREATMENTS



116 Homeowner

APPLICATIONS

18.73 ACRES TREATED
115 BROADCAST TREATMENTS
1 SPOT TREATMENTS



68 Park

APPLICATIONS

336.44 ACRES TREATED
68 BROADCAST TREATMENTS



4 School

APPLICATIONS

9.82 ACRES TREATED
4 BROADCAST TREATMENTS

Red Imported Fire Ant



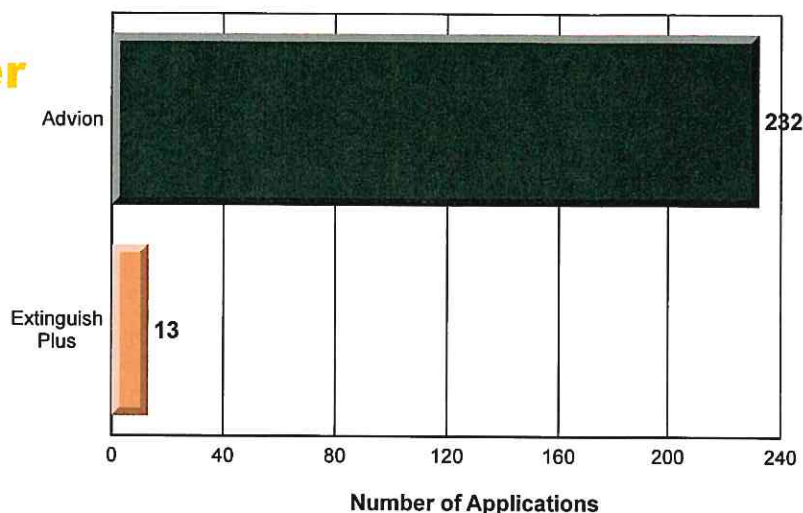
Scientific classification

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	727.47	993.30
	Amount (lbs.)	1,091.54	1,489.95
	Cost	\$ 10,326.01	\$ 9,595.28

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.

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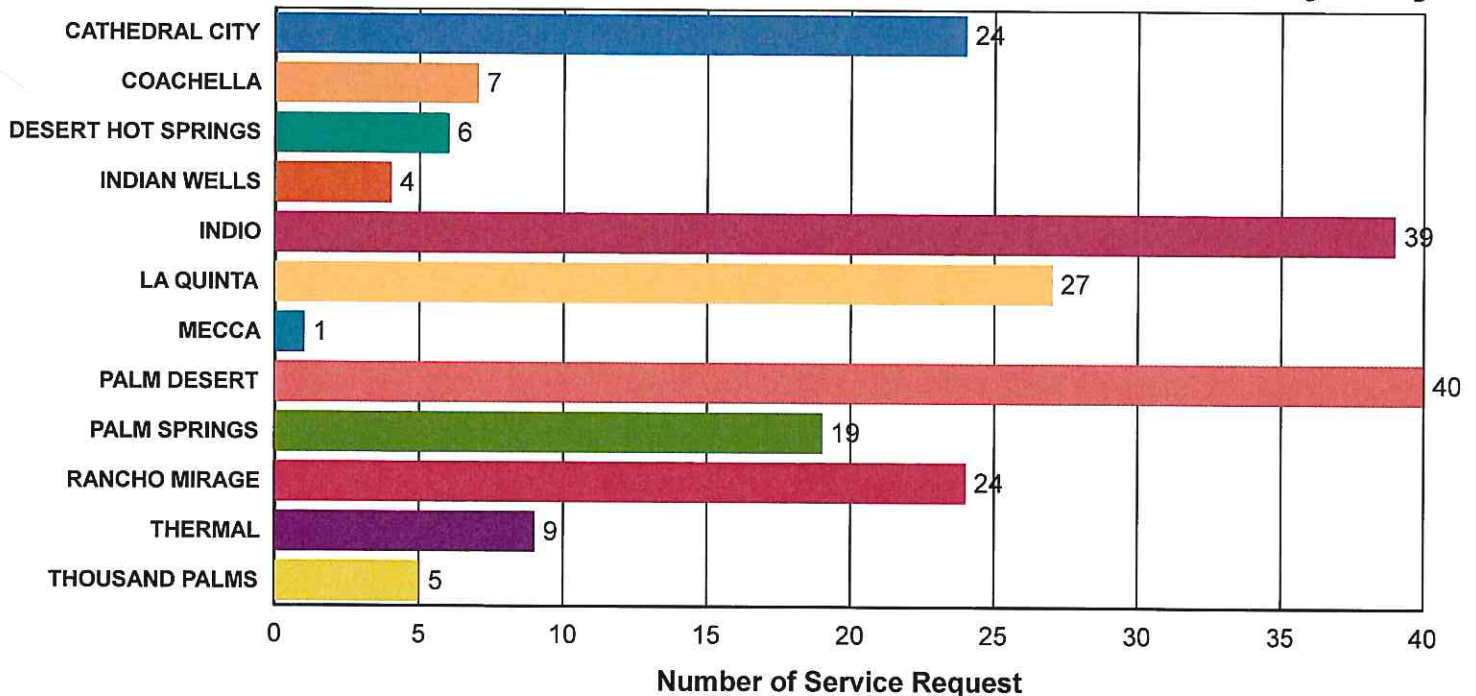
Service Request Operations

4/1/2018 to 4/30/2018 Report

Service Request Types

	TOTAL	STANDING WATER	NEGLECTED POOL	FLY/EYE GNATS	MOSQUITO	BEEES	RIFA
TOTAL	205	6	12	17	22	6	142
CATHEDRAL CITY	24	0	1	3	3	0	17
COACHELLA	7	1	0	3	2	0	1
DESERT HOT SPRINGS	6	0	1	0	1	2	2
INDIAN WELLS	4	0	0	0	0	0	4
INDIO	39	0	3	2	4	0	30
LA QUINTA	27	1	1	1	4	1	19
MECCA	1	0	0	0	0	1	0
PALM DESERT	40	0	0	2	4	0	34
PALM SPRINGS	19	4	0	1	1	2	11
RANCHO MIRAGE	24	0	6	2	1	0	15
THERMAL	9	0	0	3	2	0	4
THOUSAND PALMS	5	0	0	0	0	0	5

Service Request by City



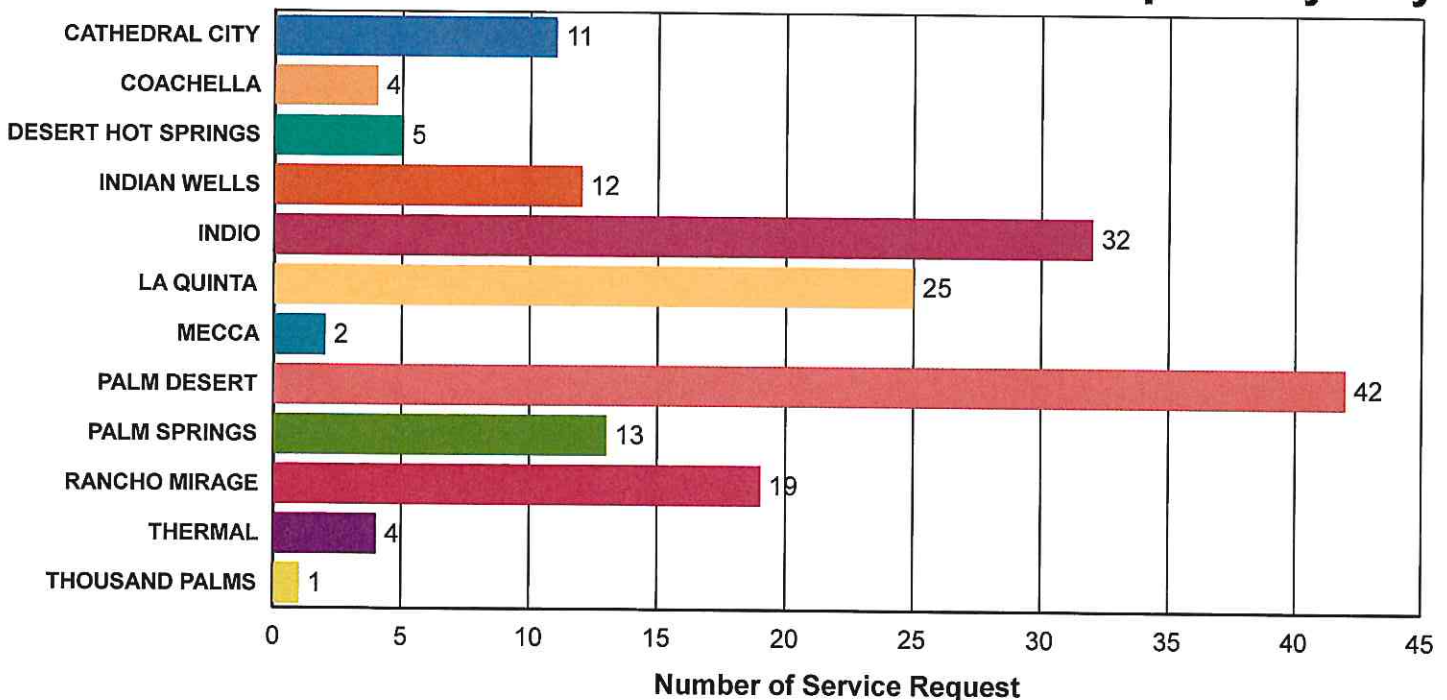
Service Request Operations

3/1/2018 to 3/31/2018 Report

Service Request Types

	TOTAL	STANDING WATER	NEGLECTED POOL	FLY/EYE GNATS	MOSQUITO	RODENTS	BEEES	RIFA
TOTAL	170	5	18	7	7	4	8	121
CATHEDRAL CITY	11	0	0	0	0	0	1	10
COACHELLA	4	1	0	1	0	0	0	2
DESERT HOT SPRINGS	5	0	2	0	0	1	0	2
INDIAN WELLS	12	0	1	0	0	0	0	11
INDIO	32	2	4	0	1	0	2	23
LA QUINTA	25	2	3	1	1	1	1	16
MECCA	2	0	0	1	0	0	1	0
PALM DESERT	42	0	4	1	3	1	1	32
PALM SPRINGS	13	0	2	0	0	0	1	10
RANCHO MIRAGE	19	0	2	0	2	0	1	14
THERMAL	4	0	0	3	0	0	0	1
THOUSAND PALMS	1	0	0	0	0	1	0	0

Service Request by City



Information Technology

PROJECTS / HARDWARE / SOFTWARE:

- Sophos Firewall Installation
- Troubleshoot issues with:
 - **Drop Calls:** Verizon Communication Express VoIP (Voice over Internet Protocol) Phone System
 - **Not Printing:** HP 4100 DTN Duplex Printer
- Migrating Verizon FiOS Static IP Addresses to FiOS by Frontier Static IP Addresses
- WorkFlow Modules implementation for Department Heads
- Updating of client computers for TeamViewer, ESET Antivirus & Windows Updates
- Prepared Information Technology and Fleet Services Budgets

WEBSITE

- Added new 'Agenda' Photo link to the Homepage to comply with the requirements for the Transparency Certificate.



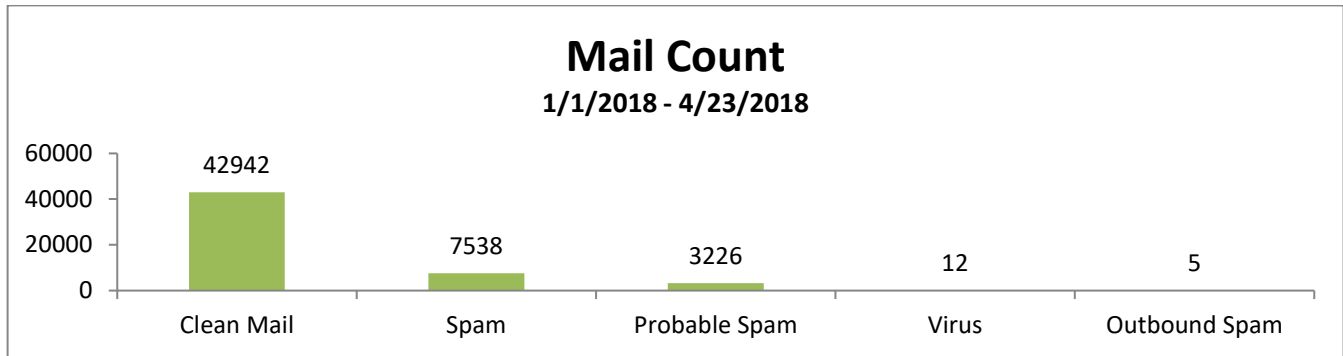
- Added links to the District's 'Reimbursement and Compensation Policy' Document and to the State Controller's Webpage for Financial Transaction Reports Page.

MOBILE INSPECTION APPLICATION

- Number of Properties digitized or re-digitized for the Mobile Inspection Application:

6	3	14
February	March	April

MAIL TRAFFIC SUMMARY



FLEET SERVICES

VEHICLE ACCIDENTS

- On 3/30/2018 Unit# 57 was rear-ended by an Acura Sports Car; Highway Patrol was called to report the accident.
- On 4/16/2018 Unit# 43 was hit by a delivery truck while parked at Balloon Ranch; Highway Patrol was called to report the accident.
- On 4/6/2018 UNIT# 50 ran into a fence while surveying a mosquito habitat area.
- On 3/26/2018 Unit# 3 had minor body damage when the trailer popped off the coupler and hit the tailgate.



NEW EQUIPMENT

- Mattracks XT Tracks have been received and are to be installed on the District's ATV to provide Vector Control Technicians a greater surface area to operate in water saturated habitats.



FACILITIES

SOLAR PANELS – The following charts show the total yield from the solar panels during March and April, and a comparison between the power output per hour for March 31, 2018 and April 30, 2018.

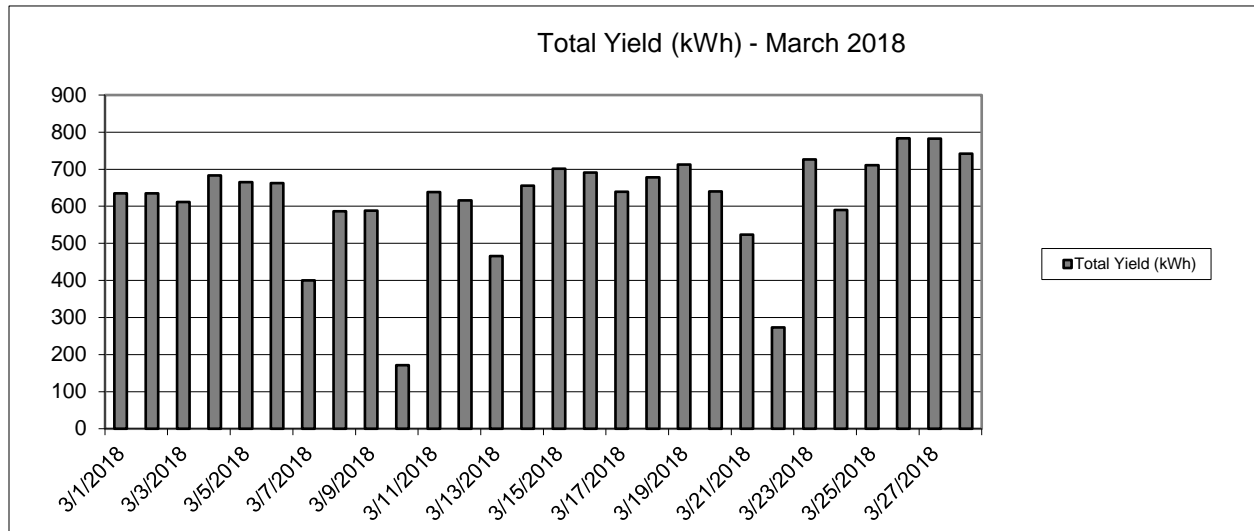


Figure 1 March 2018 Daily Solar Yield

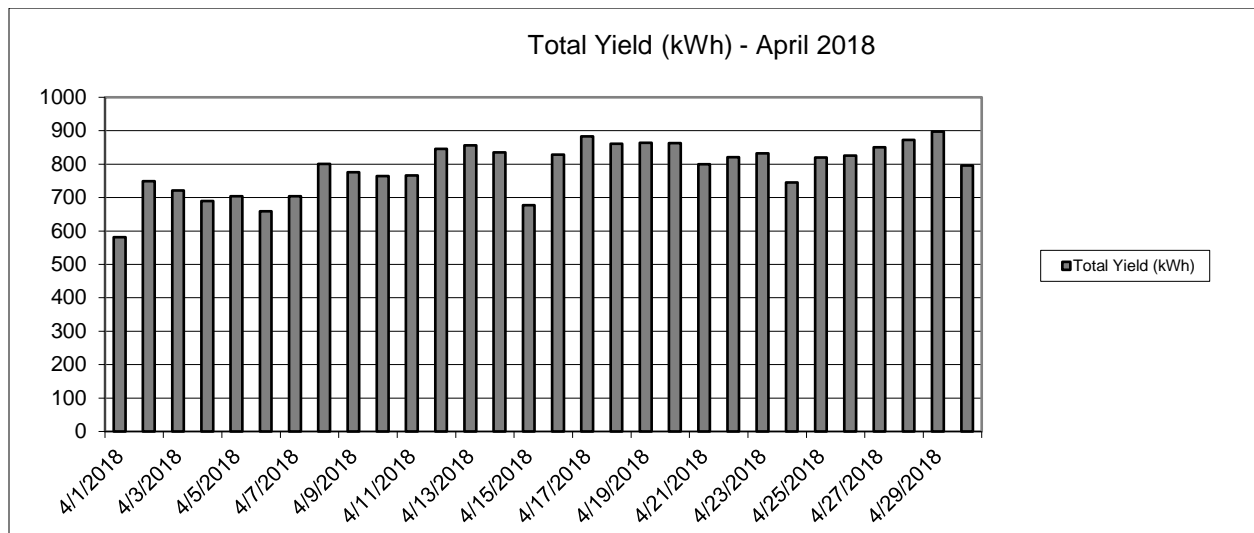


Figure 2 April 2018 Daily Solar Yield

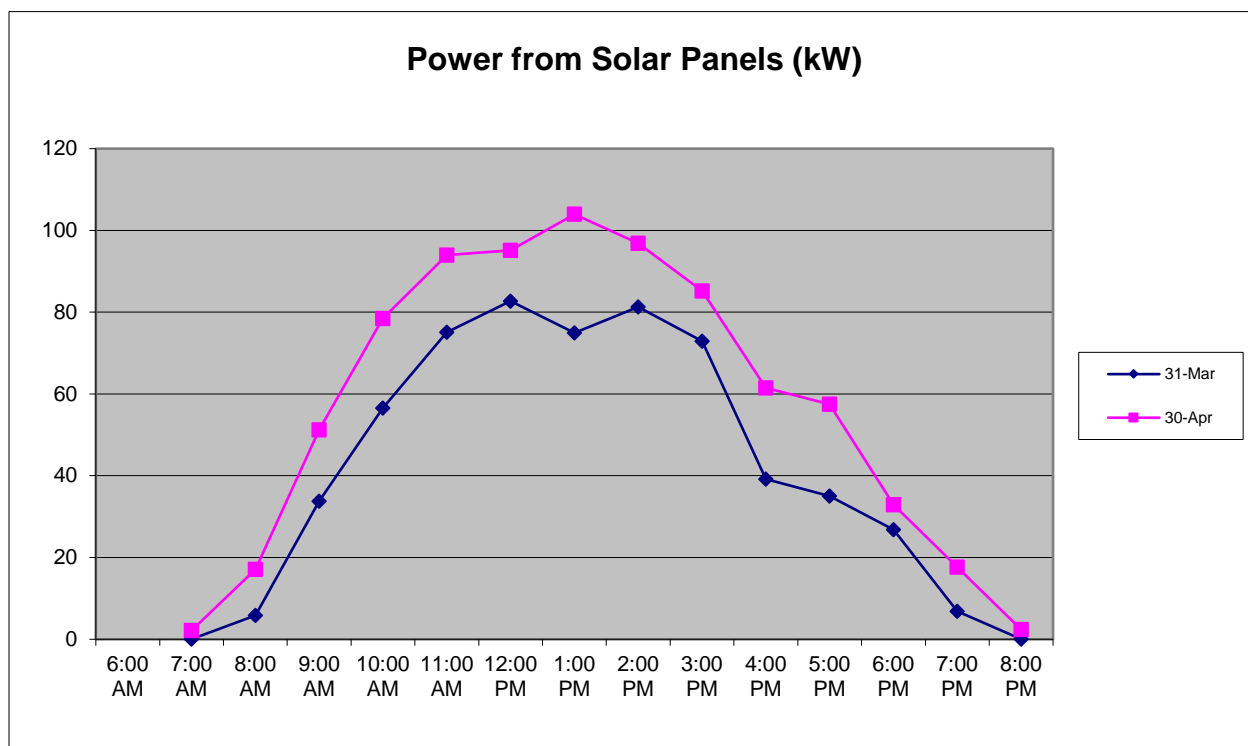
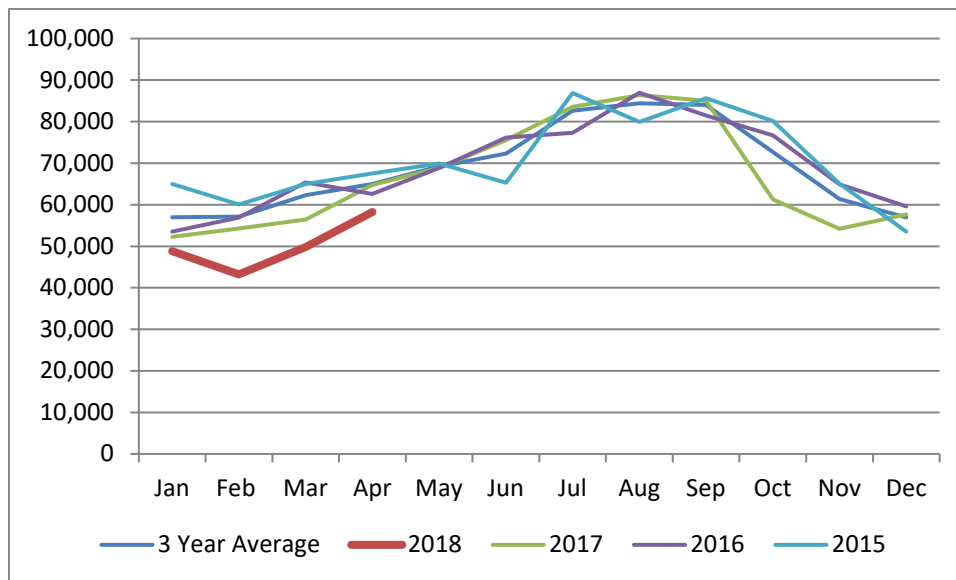



Figure 3 Hourly Solar Yield for March 31, 2018 and April 30, 2018

Energy Consumption

In 2018 on average the District has consumed over 10,000 kWh less each month compared with the 3 year average. Electricity consumption and the bills have been lower since the well has been offline.



For 2018, 35% of the Districts energy consumption percentage is provided by solar the rest is provided by IID.

	<p>Coachella Valley Mosquito and Vector Control District</p> <p>Staff Report</p>	<p>May 8, 2018</p>
<p>Agenda Item: Items of General Consent</p> <p>Approval of Resolution 2018-06 Amending the CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan – Jennifer A. Henke, MS, Laboratory Manager</p>		
<p>Background:</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 & Response Plan generated by California Department of Public Health, 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.</p>		
<p>Staff Recommendation:</p> <p>Approval of Resolution 2018-06, revising the CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan.</p>		
<p>Fiscal Impact: N/A</p>		
<p>Exhibits:</p> <ul style="list-style-type: none"> • Resolution 2018-06 • CVMVCD Mosquito-borne Virus Surveillance and Emergency Response Plan 		

Resolution No. 2018-06

**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.

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PASSED, ADOPTED AND APPROVED, this 8th day of May, 2018.

Shelley Kaplan, President
Board of Trustees

ATTEST:


Crystal G. Moreno, Clerk of the Board

APPROVED AS TO FORM:

M. Katherine Jenson, General Counsel

REVIEWED:

Jeremy Wittie, MS, General Manager

	<p style="text-align: center;">Coachella Valley Mosquito and Vector Control District</p> <p style="text-align: center;">Staff Report</p>	<p style="text-align: center;">May 8, 2018</p>
<p>Agenda Item: Items of General Consent</p> <p>Approval of Resolution 2018-07 Amending the District's Research Policy – Jennifer A. Henke, M.S., Laboratory Manager</p>		
<p>Background:</p> <p>The District's <i>Annual Research Funding Policy</i> identifies and specifies the manner by which research projects are identified and funded each calendar year.</p> <p>The previous policy indicated that funds were at a set amount without taking into account that the District's budget may change on an annual basis. The revision maintains a set level of funding for the Research Fund, but it also provides additional information that ensures that the Board of Trustees approves expenditures. This is in practice with what the Board has done, and it ensures that smaller grants are still approved by the Board.</p>		
<p>Staff Recommendation:</p> <p>Staff recommends that the Board of Trustees adopts resolution 2017-07, revising the District's Policy for Research Funding.</p>		
<p>Attachments:</p> <ul style="list-style-type: none"> • Resolution 2018-07 • Revised Research Policy 		
<p>Fiscal Impact: N/A</p>		

RESOLUTION NO. 2018-07

A RESOLUTION OF THE BOARD OF TRUSTEES OF THE COACHELLA VALLEY MOSQUITO AND VECTOR CONTROL DISTRICT ADOPTING A REVISED RESEARCH FUNDING POLICY & PROCEDURE

WHEREAS, the Coachella Valley Mosquito and Vector Control 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. ("District"); and

WHEREAS, the Board of Trustees of the District ("Board") has been granted the statutory authority and responsibility to administer the financial affairs of the District; and

WHEREAS, the Board is authorized to fund regional research institutions to improve the District's surveillance and integrated pest management programs; and

WHEREAS, on September 8, 2015, the Board adopted Resolution No. 2015-19 which adopted the District policy and procedure for funding research ("Previous Policy"); and

WHEREAS, the Board desires to adopt the Coachella Valley Mosquito and Vector Control District Revised Research Funding Policy & Procedure, attached hereto and incorporated herein as Exhibit "A" ("New Policy"), and to repeal and replace the Previous Policy.

NOW, THEREFORE, BE IT RESOLVED by the Board of Trustees of the Coachella Valley Mosquito and Vector Control District that:

Section 1. Recitals.

The recitals set forth above are true and correct.

Section 2. New Policy Adopted.

The Board hereby approves and adopts the New Policy, and simultaneously repeals the Previous Policy.

Section 3. Severability.

The Board 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 4. Repeal of Conflicting Provisions.

All the provisions of any resolution or policy heretofore adopted by the Board that are

in conflict with the provisions of this Resolution are hereby repealed.

Section 5. Effective Date.

This Resolution shall take effect upon its adoption.

Section 6. 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.

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PASSED, ADOPTED AND APPROVED, this 8th day of May, 2018.

Shelley Kaplan, President
Board of Trustees

ATTEST:

Crystal G. Moreno, Clerk of the Board

APPROVED AS TO FORM:

M. Katherine Jenson, General Counsel

REVIEWED:

Jeremy Wittie M.S., General Manager

EXHIBIT “A”

**SEE ATTACHED
COACHELLA VALLEY MOSQUITO AND VECTOR
CONTROL DISTRICT REVISED
RESEARCH FUNDING POLICY & PROCEDURE**

COACHELLA VALLEY MOSQUITO & VECTOR CONTROL DISTRICT				
REVISED RESEARCH FUNDING POLICY & PROCEDURE				
Subject Funding Research	Policy Number	Date Adopted	Date Revised	Board Approved
	1.12	03/10/10	05/13/14 09/2/15 <u>5/8/18</u>	09/08/15

Policy Statement

The goal of the Coachella Valley Mosquito & Vector Control District's ("District") Research Funding Policy and Procedure ("Policy") is to work collaboratively with accredited research institutions to improve the District's Integrated Vector Management Program. At each January Board meeting, an ad hoc Research Committee shall be formed. The ad hoc Research Committee is composed of three members from the Board of Trustees. The staff from the Scientific, Operations, and Administration Departments will serve in an advisory role to the Committee. The ad hoc Research Committee identifies the needs for applied research, seeks out proposals from accredited academic institutions, reviews proposals, and makes recommendations to the Board.

1. The ad hoc Research Committee will determine the research interests.
2. Funding for the Research program will come from general revenue and is set at \$150,000 per fiscal year, not to exceed 2% of the annual Operating Expenditures. This will be approved annually during the District's Annual Budget Calendar, if funds are available.
- ~~2.3.~~ The expenditures from the Research budget will be discussed by the ad hoc Research Committee. Final approval of expenditures will be determined by the Board of Trustees.
- ~~3.4.~~ Once the District's Operating Budget is approved by the Board of Trustees, the ad hoc Research Committee will meet in June, contingent upon approval of budget at the June Board meeting, in person or electronically, to finalize the District's request for research proposals.
- ~~4.5.~~ Starting in July, the District will invite research proposals from accredited academic institutions.
- ~~5.6.~~ Research proposals will be submitted to the District no later than September 1st.
- ~~6.7.~~ The ad hoc Research Committee will evaluate and discuss proposals after they have been received.
- ~~7.8.~~ Research proposals that best meet District research priorities and are within budget will be recommended to the full Board of Trustees for funding approval at the November Board meeting.

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~~8-9~~ Board approved University of California research proposals may be submitted to the Mosquito and Vector Control Association of California (MVCAC). Proposals will be handled as *pass through* funding by the MVCAC as described in Association's "Manual of Administration Policies."

~~9-10~~ The projects must have specific objectives and the District typically provides additional in-kind support. Grant monies for Board approved research proposals shall be for the sole purpose of research and shall not be applied to cover indirect or overhead expenses in any way.

~~10-11~~ When feasible, the District will provide full funding for each requested year.

~~11-12~~ If Board approved, each year's proposed research budget for multi-year projects will be disbursed in January of the subsequent funded year(s).

~~12-13~~ Awardees will submit reports in June and December of each award year and shall be reviewed by the full Board of Trustees at the July and January Board meetings.

~~13-14~~ In fiscal years when Approved Research proposals total less than the annual funding level, the excess funds will be transferred to the *Reserve for Research*. The *Reserve for Research* funding level is not to exceed \$300,000.

~~14-15~~ Funds held in the *Reserve for Research* may be used to supplement the annual research budget.

Two Year Research Funding Cycle

Year	Month	Description
Pre-Year 1	January	Ad hoc Research committee formed.
	April	Ad hoc Research committee completes research interests and two year draft budget.
	July	RFP Issued
	September	Proposals submitted to CVMVCD
	November	Research Projects selected for funding.
Year 1	January	<i>Researcher receives 1st year of funds.</i>
	June	Researcher submits first semi-annual report.
	July	First semi-annual report reviewed and approved by Board of Trustees.
	December	First annual report submitted by researcher.
Year 2	January	First annual report reviewed and approved at Board of Trustees meeting.
	January/February	<i>Researcher receives 2nd year of funding.</i>
	June	Researcher submits second semi-annual report.
	July	Second semi-annual report reviewed and approved at Board of Trustees meeting.

	December	Second annual report submitted by researcher.
Pre-Year 1	January	Pre-Year 1 activities begin in year 2



Coachella Valley Mosquito and Vector Control District

Staff Report

May 8, 2018

Agenda Item: Items of General Consent

Approval for purchase of additional mosquito control product for the fiscal year 2017-18, in an amount not to exceed \$198,000 from Fund# 7800.01.500 – **J. Wakoli Wekesa, PhD, Operations Manager**

Background:

Operations Department is responsible of controlling disease transmitting vectors and mosquitoes throughout the District using a prescribed set of environmentally-friendly products. The budget for 2017-18 FY was passed authorizing the amount of vector control products projected for use throughout the fiscal year. The projection for some of the products fell short of lasting the season and there is an urgent need to purchase additional products to last us through the 2017-18 FY.

After reviewing the 2017 Comprehensive Mosquito Control and Response plan adopted by the Board of Trustees there is a minimum amount of product that must be held in stock to but used in unforeseen disease outbreak or mosquito emergencies. Some of the control products in storage fall below the established minimums and approval of this additional purchase will ensure reserve inventory is at prescribed levels as the 2018-19 FY approaches. The products to be purchased are as follows:

Product	Quantity	Cost Per	Total
Natular G30*	4000 lbs	\$15.63/lbs	\$62,250.00
Altosid Pellets	2400 lbs	\$27.59/lbs	\$66,216.00
VectoMax FG	3200 lbs	\$9.06/lbs	\$28,992.00
Aqua Reslin	100 gallons	\$209.80/gallon	\$20,980.00
		Tax	\$15,613.33
		Total	\$194,051.30

**The Natural G30* was authorized for purchase in April due to projected need April through June 2018 for anticipated Salton Sea Shoreline treatments and to meet the minimum amount requirements specified in our comprehensive Mosquito Control Response plan. Per District Purchasing Policy "The General Manager may authorize the purchase of materials, supplies, equipment, services, public broadcasting and overtime where an emergency is deemed to exist and it is determined that service involving the public health, safety or welfare would be interrupted if the normal procedure were followed. All emergency purchases, which would otherwise require formal bidding procedures, or prior Board of Trustee approval, shall be submitted to the Board of Trustees for ratification at the next regular trustee meeting after purchase is authorized."*

Staff Recommendation:

- Staff recommends approval of purchasing additional control products required for the

remainder of fiscal year 2017-18 in an amount not to exceed \$198,000.00.

Fiscal Impact:

FY2017-18 Budget 7800.01.500	Current Available Funds	Proposed Expense	Remaining Available Funds
\$770,406	\$386,359	\$198,000	\$188,359



Coachella Valley Mosquito and Vector Control District

May 8, 2018

Staff Report

Agenda Item: Items of General Consent

Approval to sell surplus District property – **Edward Prendez, Information Technology Manager**

Background:


The District has identified three (3) vehicles, one (1) ATV, five (5) golf carts, a battery charger, three (3) gas containers and two (2) Clark Smartflow ULV Foggers to be auction off as part of the District's restructuring effort.


The District has previously utilized Public Surplus, a third party marketplace, to attract a wider audience, increase revenue and eliminate any appearance of conflict of interest. Utilizing this avenue eases the burden on District staff to transport, show and answer questions from the public regarding the vehicle sales. Buyers of District Property will pay a premium of 7% or 10.5% depending upon the collection method.


Light-Duty Trucks					
UNIT	MAKE	MODEL	STYLE	YEAR	MILEAGE
127	Ford	F-150	Pickup 4X4	2006	73,037
161	Ford	F-150	Pickup 4X4	2008	75,596
163	Ford	F-150	Pickup 4X4	2008	94,067
All-Terrain Vehicles (ATV)					
UNIT	MAKE	MODEL	STYLE	YEAR	MILEAGE
105	Sportsman	800	ATV 4X4	2003	700 HRS
Utility Vehicles					
UNIT	MAKE	MODEL	STYLE	YEAR	MILEAGE
65	Carryall	Club Car	4.x2	1998	1501 HRS
88	Carryall	Club Car	2Plus 350	2002	1831 HRS
89	Carryall	Club Car	2Plus 350	2002	2515 HRS
146	Carryall	Club Car	4.x2	2007	773 HRS
147	Carryall	Club Car	4.x2	2007	2474 HRS
Miscellaneous Items					
	MAKE	TYPE	MODEL	SERIAL	DATE CODE
	Solar	Battery Charger	141-31-904	Q184395	07/14/97
QTY (3)	Fuel Chief	Transport 25			
QTY (2)	Clark Smartflow	ULV Fogger	A0003s		06/15/12

Staff Recommendation:

- Staff recommends approving the sale of surplus District property.

	<div>Coachella Valley Mosquito and Vector Control District</div> <div>Staff Report</div>	May 8, 2018								
<div>Agenda Item: Items of General Consent</div> <div>Approval for the Annual Renewal of Abila MIP Fund Accounting Maintenance and Support in an amount not to exceed \$6,000 from Fund #7675.01.210, Computer and Network Systems Maintenance Contracts – Edward Prendez, IT Manager</div>										
<div>Background:</div> <div>The District uses Abila MIP for financial software, which includes accounts payable, accounts receivable, fixed assets and financial reporting. The annual maintenance provides updates to the software, support and access to online resources.</div>										
<div>Staff Recommendation:</div> <div><ul style="list-style-type: none">Approval for the Annual Renewal of Abila MIP Fund Accounting Maintenance and Support.</div>										
<div>Fiscal Impact:</div> <table><tr><td>FY2017-18 Budget 7675.01.210</td><td>Current Available Funds</td><td>Proposed Expense</td><td>Remaining Available Funds</td></tr><tr><td>51,000</td><td>\$21,001</td><td>\$5,267</td><td>15,734</td></tr></table>			FY2017-18 Budget 7675.01.210	Current Available Funds	Proposed Expense	Remaining Available Funds	51,000	\$21,001	\$5,267	15,734
FY2017-18 Budget 7675.01.210	Current Available Funds	Proposed Expense	Remaining Available Funds							
51,000	\$21,001	\$5,267	15,734							


	Coachella Valley Mosquito and Vector Control District Staff Report		May 8, 2018
Agenda Item: Items of General Consent			
Approval to upgrade environmental chamber dehumidifiers in an amount not to exceed \$40,000 from Capital Budget– David I’Anson, Administrative Finance Manager			
Background: The District environmental chambers in the Laboratory Building are used to rear susceptible and wild mosquitoes to ensure that the products that the District Operations uses are effective. The susceptible mosquitoes have been kept for more than 40 years away from pesticides. Assays using products compare the results between these susceptible mosquitoes and wild-caught mosquitoes from the District to see if the wild mosquitoes are resistant to the products. The chambers allow for the temperature and humidity to be set at a variety of environmental conditions to optimize the growth of mosquitoes or to mimic the outside conditions. The dehumidifiers that are currently used are not powerful enough to counteract the pans of water needed to rear the mosquitoes. Using the current dehumidifiers, the doors need to be kept open to not overheat the rooms. To conduct work using <i>Aedes aegypti</i> mosquitoes, the doors need to be kept closed to ensure that the District does not spread the invasive mosquito. Upgrading the dehumidifiers will allow for the environmental chambers to work as intended and allow the District to expand its product efficacy work to the new species of mosquito. Expenses related to upgrading of environmental chamber dehumidifiers include installation of Ebac DD400 desiccant dehumidifiers for each of the three chambers. Installation cost which includes labor (prevailing wage) and travel. The dehumidifiers are 240 volts 20 amp rated, electrical work includes pulling new wire for the 3 units and at the electrical panel install 20 amp breakers for the individual units. Mechanical work includes ducting for ventilation, involving running new ductwork, a fan to vent the condensation to the outside of the laboratory.			
Staff Recommendation: <ul style="list-style-type: none">• Approve upgrade of environmental chamber dehumidifiers in an amount not to exceed \$40,000 from Capital Budget			
Fiscal Impact:			
FY2017-18 Budget 8487.11.800.000	Current Available Funds	Proposed Expense	Remaining Available Funds
150,000	150,000	40,000	110,000


	Coachella Valley Mosquito and Vector Control District Staff Report		May 8, 2018
Agenda Item: Items of General Consent			
Approval to send the Laboratory Manager to the Pacific Branch of the Entomological Society of America Conference in Reno, NV June 10-13 in an amount not to exceed \$1,500.00 from Fund #7600.01.601.027, Professional Development – Jennifer A. Henke, M.S., Laboratory Manager			
Background: The 102 nd Annual Meeting of the Pacific Branch of the Entomological Society of America will be held in Reno, Nevada from June 10-13, 2018. The meeting will consist of presentations and exhibits that illustrate the latest science, technology and products used to conduct research and control of insects. This meeting also provides ample opportunities to network with entomologists, researchers, and educators from around the world. Jennifer A. Henke has been elected the President-Elect of the Pacific Branch of the Entomological Society of America and will become President at the conclusion of the meeting. She has an accepted presentation on the work that the District has done for <i>Aedes</i> mosquitoes and has been asked to serve on a panel of career opportunities for students.			
Staff Recommendation: <ul style="list-style-type: none">Staff recommends approval of funds for the Laboratory Manager to attend the Annual Meeting of the Pacific Branch of the Entomological Society of America in Reno, NV from June 10-13, 2018.			
Fiscal Impact:			
FY2017-18 Budget 7600.01.601.027	Current Available Funds	Proposed Expense	Remaining Available Funds
6,000	6,000	1,500	3,500

SECTION
6



OLD BUSINESS


	<p>Coachella Valley Mosquito and Vector Control District</p> <p>Staff Report</p>	<p>May 8, 2018</p>
<p>Agenda Item: Old Business</p> <p>Discussion regarding the draft 2018-2021 Coachella Valley Mosquito and Vector Control District Strategic Plan – Jeremy Wittie, MS, General Manager</p>		
<p>Background:</p> <p>The Board of Trustees, District Management and Supervisory staff participated in a day-long strategic planning workshop on February 7, 2018 facilitated by the District’s strategic planning consultant. At the workshop, the group reviewed the results of the strategic planning interviews, undertook a number of exercises to examine the current state of the District, identified critical issues and opportunities expected to confront the District in the future, and discussed priorities.</p> <p>During the April 10, 2018 Board meeting, the District General Manager facilitated the Board of Trustees through a review and discussion of the draft Goals and Objectives that were developed from the discussion at the Strategic Planning workshop. Comments and direction was taken and incorporated into the final Strategic Plan Goal and Objective statements.</p> <p>During the May Board meeting the General Manager will briefly review the final version of the Strategic Plan Goals and Objectives and lead a discussion to review the District’s mission statement, core values, and revise the District’s vision statement with input from the Board of Trustees.</p>		

	<p>Coachella Valley Mosquito and Vector Control District</p> <p>Staff Report</p>	<p>May 8, 2018</p>
<p>Agenda Item: Old Business</p> <p>Update regarding the status of the District's Thermal facility – Jeremy Wittie, MS, General Manager</p>		
<p>Background:</p> <p>At the November 14, 2017, Board Meeting the Board of Trustees approved contracting Dudek for Civil Engineering and Surveying Services for the Thermal Facility. On February 2, 2018, the District held its initial kick-off meeting with Dudek to discuss the work the District wanted to be done. On April 13, 2018 we received the initial plans from Dudek.</p> <p>General Manager Wittie will provide and update and summarize next steps on this project.</p>		

SECTION
7



NEW BUSINESS

	<div>Coachella Valley Mosquito and Vector Control District</div> <div>Staff Report</div>	May 8, 2018								
<div>Agenda Item: New Business</div> <div>Discussion and/or approval for purchase of Unmanned Aerial System (UAS - drone) including staff training and license fees, in an amount not to exceed \$33,000.00 from Fund #7850.01.500.038, Aerial Applications – J. Wakoli Wekesa, PhD, Operations Manager</div>										
<div>Background:</div> <div>The Coachella Valley has diverse habitats in which mosquito develop and disperse spreading their biting nuisance and disease transmission throughout the Valley. In some of the rural and Salton Sea shoreline the breeding habitats are remote requiring specialized vehicles to enable field staff to access them for monitoring and control. Amphibious and ATV vehicles have traditionally been used to access such habitats that includes marshes, swamps and muddy ground of retreating shoreline. The limitation of this equipment is moving on the soft shoreline and accessing remote areas making it difficult to provide proper monitoring and control of mosquitoes. The emerging technologies of UAS such as PrecisionVision Pro equipped with high resolution digital video camera and upgradable to conduct applications of granules and liquids can improve mosquito surveillance, staff safety, and in the very near future control of mosquitoes.</div> <div>The operations, surveillance and IT/Fleet departments are collaborating to purchase an UAS and appropriate accessories of video, camera, battery, display surface and weather sensors for \$15,708.00. The weather station sensors are an additional \$1,500.00. In addition, 15 staff onsite training for FAA part 107 Knowledge test course, basic flight training, and UAS pilot licensure at a cost of \$13,365.00. The total cost of purchasing the UAS, weather station, other accessories, and onsite training shall be applied to the Aerial applications - urban 2017-18 budget in this authorization is \$30,573, and not to exceed \$33,000.</div>										
<div>Staff Recommendation:</div> <div>Staff recommends approval of purchasing UAS including staff training and license fees in an amount not to exceed \$33,000.</div>										
<div>Fiscal Impact:</div> <table><tr><td>FY2017-18 Budget 7850.01.500.038</td><td>Current Available Funds</td><td>Proposed Expense</td><td>Remaining Available Funds</td></tr><tr><td>\$63,000</td><td>\$63,000</td><td>\$33,000</td><td>\$30,000</td></tr></table>			FY2017-18 Budget 7850.01.500.038	Current Available Funds	Proposed Expense	Remaining Available Funds	\$63,000	\$63,000	\$33,000	\$30,000
FY2017-18 Budget 7850.01.500.038	Current Available Funds	Proposed Expense	Remaining Available Funds							
\$63,000	\$63,000	\$33,000	\$30,000							