

**PLACER MOSQUITO & VECTOR CONTROL DISTRICT
BOARD OF TRUSTEES**

2021 Opportunity Drive
Roseville, CA 95678

**REGULAR BOARD MEETING
AGENDA**

March 20, 2023, 4:30 PM

www.placermosquito.org

Pursuant to Assembly Bill 2449 this meeting will be conducted in person and via zoom. Members of the public can participate by calling (408) 638-0968 and when prompted, enter the Meeting ID: 857 7683 4734 or <https://us06web.zoom.us/j/85776834734?pwd=Ymd3WitnMGQ4RUxkZGM5dUpFMW11dz09>

Page

Board of Trustees

Rachel Radell-Harris
City of Auburn

Will Stockwin
City of Colfax

Peter Gilbert
City of Lincoln

Russ Kelley
Town of Loomis

Merry L. Holliday-
Hanson, Ph.D.
Placer County

Jill Gayaldo
City of Rocklin

Ross Hutchings
City of Roseville

General Manager
Joel Buettner

- | | |
|------------------------------|---|
| 1 | Call to Order |
| 2 | Roll Call |
| 3 | Pledge of Allegiance |
| 4 | Introduction of New Trustee
A. Rachel Radell-Harris, City of Auburn appointed District Trustee |
| 5 | Agenda Review |
| 6 | Public Comment
<i>Members of the public shall be allowed to address the Board of Trustees on items which are of interest to public and which are within the jurisdiction of the Board, before or during the Board's consideration of the item; however, no action shall be taken on any item not appearing on the agenda unless otherwise authorized by the Board pursuant to Government Code Section 54954.2(b). It is requested that comments be limited to no more than 5 minutes.</i> |
| 7 | Consent Agenda – Action item
A. Minutes of the January 23, 2023, Regular Board Meeting
B. Financial Report: Fiscal Year to Date February 28, 2022
C. Acknowledge Warrants Issued January - February 2023
D. Board Review and Consideration to Purchase Mosquito Larvicides |
| 3-5
7-9
11-12
13-14 | |
| 15 | 8 Board Review and Consideration of Resolution 2023-02 Directing the Preparation of the Engineer's Report for the Mosquito Control District and East County Mosquito Control and Disease Prevention Assessment District – Action item |
| 17 | 9 Board Review and Consideration of Resolution 2023-03 Directing the Preparation of the Engineer's Report for the Expanded Services and Permanent Facility Assessment – Action item |
| 19-26 | 10 Board Review and Consideration Board Review and Consideration to Purchase Replacement UAS for Mosquito Control Applications – Action item |
| 27-28 | 11 Board Review and Consideration to Hire ACE Asphalt to Perform Parking Lot Maintenance. – Action item |

- 29-33 **12 Board Review and Consideration to Purchase UTV Trailer – Action item**
- 35-37 **13 Board Review and Consideration of Resolution 2023-04 Amending the District Budget for Fiscal Year 2022-23 – Action item**
- 14 Staff Reports**
 - A. Eastern Placer Report – Angella Falco
 - B. Public Information and Outreach Report – Meagan Luevano
 - C. Field Operations and Surveillance Report – Jake Hartle
 - D. General Manager’s Report – Joel Buettner
- 39 **15 Closed Session**
 - A. Closed Session: Conference with District designated labor negotiator Jake Hartle regarding negotiations with employee organizations: Placer Mosquito and Vector Control District Employees Association and Placer Mosquito and Vector Control District Association of Managerial Employees (pursuant to Government Code Section 54957.6)
- 41-42 **Reconvene from Closed Session**
- 43-45 **16 Report from Closed Session**
- 17 Board/Staff General Discussion**
- 18 Announcements**
 - A. The next regular Board meeting will be held April 17, 2023 at 4:30 PM, at 2021 Opportunity Dr., Roseville, CA 95678
 - B. The next regular Personnel Committee meeting will be held April 24, 2023 at 3:30 PM at 2021 Opportunity Dr., Roseville, CA 95678.
- 19 Adjournment**

In compliance with the Americans with Disabilities Act, if you are a disabled person and you need a disability-related modification or accommodation to participate in this meeting, please contact the District at (888) 768-2343, fax (916) 380-5455, and/or send e-mail to info@placermosquito.org. Requests must be made as early as possible and at least one-full business day before the start of the meeting. Documents and materials relating to an open session agenda item that are provided to the PMVCD Board less than 72 hours prior to a meeting will be available for public inspection and copying at 2021 Opportunity Drive, Roseville, CA 95678.

Placer Mosquito & Vector Control District
Board of Trustees Regular Board Meeting – Minutes
January 23, 2023 4:30 PM
Placer Mosquito & Vector Control District Office
2021 Opportunity Drive, Roseville, CA 95678

Pursuant to Assembly Bill 361 this meeting will be conducted via teleconference. In the interest of maintaining appropriate social distancing, the Board encourages the public to participate by calling (408) 638-0968 and when prompted, enter the Meeting ID: 838 8444 8944 or <https://us06web.zoom.us/j/83884448944?pwd=Y1Y4UFIxemNYU3piTUduaDIEalZTZz09>

1. **Call to Order:** President Kelley called the meeting to order at 4:30 PM.
2. **Roll Call:** Trustees Sandra Amara, Peter Gilbert, Holliday-Hanson, Ross Hutchings and Russ Kelley were present. Trustee Jill Gayaldo was absent.
District Employees Present: Manager Joel Buettner, Jake Hartle, Isabel Alvarez, Nikki Rockwell, and Meagan Luevano.
3. **Pledge of Allegiance** was led by Trustee Stockwin
4. **Agenda Review:** The Board accepted the Agenda as presented.
5. **Public Comment:** There were none.
6. **Consent Agenda**
 - A motion to approve the following was made by Trustee Gilbert seconded by Trustee Amara, approved by roll call vote.*
 - Ayes: Trustees Amara, Gilbert, Holliday-Hanson, Hutchings, Kelley, and Stockwin*
 - Noes: ∅ Abstain: ∅ Absent: Trustee Gayaldo*
 - A. *Minutes of the December 19, 2022, Regular Board Meeting.*
 - B. *As a result of the COVID-19 emergency: (i) meeting in person would present imminent risks to the health or safety of attendees; and (ii) the meeting is authorized to be held by teleconference pursuant to Gov. Code, § 54953, subd. (e)(1)(C);*
 - C. *Acknowledge Warrants issued December 2022.*
 - D. *Financial Report: Fiscal Year to Date December 31st 2022*
 - E. *Board Review and Consideration of Out of Class Pay for Assistant Manager*
7. **Board Review and Consideration of Election of Board Officers**
 - A motion to elect Trustee Gayaldo as President was made by Trustee Stockwin, seconded by Trustee Amara approved by roll call vote.*
 - Ayes: Trustees Amara, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin*
 - Noes: ∅ Abstain: ∅ Absent: Trustee Gayaldo*
 - A motion to elect Trustee Hutchings as Vice President was made by Trustee Gilbert, seconded by Trustee Stockwin approved by roll call vote.*
 - Ayes: Trustees Amara, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin*
 - Noes: ∅ Abstain: ∅ Absent: Trustee Gayaldo*
 - A motion to re-appoint Isabel Alvarez, District Secretary, as Board Secretary, was made by Trustee Gilbert, seconded by Trustee Hutchings approved by roll call vote.*
 - Ayes: Trustees Amara, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin*
 - Noes: ∅ Abstain: ∅ Absent: Trustee Gayaldo*

8. Board Review and Consideration of Committees for 2023

A motion to approve the Committees for 2023 as is was made by Trustee Gilbert, seconded by Trustee Stockwin, approved by roll call vote.

Ayes: Trustees Amara, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin

Noes: ∅ Abstain: ∅ Absent: Trustee Gayaldo

<p><u>Personnel Committee:</u> <i>(Meets on the 4th Monday of April at 3:30 PM)</i> <i>Trustee Merry Holliday-Hanson</i> <i>Trustee Jill Gayaldo</i></p>	<p><u>Finance Committee:</u> <i>(Meets on the 1st Tuesday of May Time: TBD)</i> <i>Trustee Russ Kelley</i> <i>Trustee Peter Gilbert</i> <i>Trustee Will Stockwin</i></p>
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9. Board Review and Consideration of Adoption of AB 2449 Rules for Remote Meeting Participation for Trustees

A motion of adoption of AB2449 rules for remote meeting participation for Trustees was made by Trustee Gilbert, seconded by Trustee Holliday-Hanson, approved by roll call vote.

Ayes: Trustees Amara, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin

Noes: ∅ Abstain: ∅ Absent: Trustee Gayaldo

10. Board Review and Consideration of Resolution 2023-01 Amending the District Budget for Fiscal Year 2022-23

A motion to approve Resolution 2023-01 amending the District Budget for fiscal year 2022-23 was made by Trustee Gilbert, seconded by Trustee Hutchings, approved by roll call vote.

Ayes: Trustees Amara, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin

Noes: ∅ Abstain: ∅ Absent: Trustee Gayaldo

11. Staff Reports

- A. Eastern Placer Report –A written report was submitted. No additional items were reported.
- B. Public Information and Outreach Report – A written report was submitted. No additional items were reported.
- C. Field Operations and Surveillance Report – A written report was submitted. No additional items were reported.
- D. General Manager Report – A written report was submitted. No additional items were reported.

12. Board/Staff General Discussion: There was none

13. Announcements

- A. The District office will be closed February 13, 2023 in observance of Lincoln’s Birthday Holiday.
- B. The District office will be closed February 20, 2023 in observance of President’s Day Holiday.
- C. The next regular Board meeting will be held March 20, 2023, at 4:30 PM

14. Adjournment:

President Kelley adjourned the meeting at 5:19 PM.

Minutes approved by the Board and dated, this 20th day of March 2023 after passage.

Russ Kelley, Board President: _____

Attest:

Isabel Alvarez, Board Secretary: _____

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**Placer Mosquito and Vector Control District
Budget to Actuals Fiscal Year to Date February 28th 2023**

Ledger Account / Spend Code	Budget	Actuals	Balance	% of Budget
40010:Taxes - Current Secured Property	(\$61,275.00)		(\$27,286.72)	55.47%
RC0010 Taxes - Current Secured Property (GL40010)		(\$33,988.28)	\$33,988.28	
40020:Taxes - Property Tax Impounds	\$0.00		\$12.02	0.00%
RC0020 Taxes - Property Tax Impounds (GL40020)		(\$12.02)		
40040:Taxes - Railroad Unitary Property	(\$92.00)		(\$41.98)	54.37%
RC0040 Taxes - Railroad Unitary Property (GL40040)		(\$50.02)		
40050:Taxes - Unitary and Op Non-Unitary Property	(\$2,294.00)		(\$971.50)	57.65%
RC0050 Taxes - Unitary & Op Non-Unitary Property (GL40050)		(\$1,322.50)		
40060:Taxes - Current Unsecured Property	(\$1,115.00)		\$192.72	117.28%
RC0060 Taxes - Current Unsecured Property (GL40060)		(\$1,307.72)		
40070:Taxes - Delinquent Secured Property	(\$1.00)	\$0.00	(\$1.00)	0.00%
40090:Taxes - Delinquent Unsecured Property	(\$15.00)	\$0.00	(\$15.00)	0.00%
40100:Taxes - Current Supplemental Property	(\$1,603.00)		(\$526.56)	67.15%
RC0110 Taxes - Current Supplemental Property (GL40100)		(\$1,076.44)	\$1,076.44	
40110:Taxes - Delinquent Supplemental Property	(\$1.00)		\$2.40	340.00%
RC0120 Taxes - Delinquent Supplemental Property (GL40110)		(\$3.40)		
40180:Other Taxes	(\$318,240.00)		(\$140,502.00)	55.85%
RC0270 Parcel Taxes (GL40180)		(\$177,738.00)		
42010:Investment Income	(\$30,600.00)		(\$11,945.02)	60.96%
RC0560 Interest / Investment Income (GL42010)		(\$18,655.12)		
RC0561 5151 Interest (GL42010)		\$0.14		
42030:Short-Term Rents and Concessions	(\$6,000.00)		(\$6,000.00)	0.00%
44350:State Homeowners Property Tax Relief	(\$387.00)		(\$204.88)	47.06%
RC1440 Homeowners Property Tax Relief (GL44350)		(\$182.12)		
46030:Direct Charges	(\$5,109,259.00)		(\$2,247,206.52)	56.02%
RC1720 Direct Charges (GL46030)		(\$2,862,052.48)		
46420:Self Insurance Proceeds	\$0.00		(6,324.68)	0.00%
RC2900 Self Insurance Proceeds (GL46420)		(\$6,324.68)		
48030:Miscellaneous	(\$20,000.00)		(\$2,713.53)	86.43%
RC3080 Miscellaneous Other Revenue (GL48030)		(\$17,286.47)		
Total Revenue	(5,550,882.00)	(3,119,999.11)	(\$2,430,882.89)	56.21%
51010:Salaries and Wages	\$2,241,345.00		\$990,980.27	55.79%
SC1010 Salaries and Wages (GL51010)		\$1,250,364.73		
51040:Overtime and Call Back	\$15,118.00		\$6,403.83	57.64%
SC1040 Overtime and Call Back (GL51040)		\$8,714.17		
51210:Retirement	\$259,997.00		\$88,670.67	65.90%
SC1210 CalPERS (GL51210)		\$110,093.33		
SC1852 CalPERS (GL51210)		\$61,233.00		
51220:Payroll Tax	\$45,845.00		\$22,411.37	51.11%
SC1220 FICA (GL51220)		\$23,433.63		
51240:Other Postemployment Benefits (OPEB)	\$116,828.00		\$101,206.48	13.37%
SC1858 Other Post Employment Benefits (OPEB) (GL51240)		\$15,621.52		
51350:Emp Benefits Other Agencies	\$418,228.00		\$147,484.32	64.74%
SC1888 Employee Benefits Other Agencies (GL51350)		\$270,743.68		
51380:Other Benefits	\$1,308.00		\$672.40	48.59%
SC1897 Other Benefits (GL51380)		\$635.60		
52020:Pesticides	\$610,893.00		\$379,326.00	37.91%
SC2030 Poisons, Pesticides and Chemicals - Agricultural and Industrial (GL52020)		\$231,567.00		

**Placer Mosquito and Vector Control District
Budget to Actuals Fiscal Year to Date February 28th 2023**

Ledger Account / Spend Code	Budget	Actuals	Balance	% of Budget
52030:Clothing and Personal	\$6,100.00		\$3,840.93	37.03%
SC2040 Work Clothes (GL52030)		\$2,259.07		
52040:Communication Services Expense	\$70,192.00		\$48,224.11	31.30%
SC2085 Communication Services - Telephone (GL52040)		\$21,967.89		
52050:Food	\$800.00		\$203.75	74.53%
SC2110 Food and Water, All Types (GL52050)		\$596.25		
52060:Janitorial Supplies	\$1,448.00		\$919.60	36.49%
SC2120 Janitorial Supplies (GL52060)		\$528.40		
52080:Insurance	\$187,013.00		\$5,411.00	97.11%
SC2140 Insurance and Insurance Services (GL52080)		\$181,602.00		
52140:Parts	\$14,000.00		\$1,283.46	90.83%
SC2200 Automotive Accessories, Equipment and Parts (GL52140)		\$12,716.54		
52160:Maintenance	\$19,500.00		\$1,629.43	0.00%
SC2260 Equipment Maintenance and Repair Services for Vehicles & Aircraft		\$16,938.09		
SC2270 Equipment Maintenance and Repair Services for General Equipment (GL52160)		\$932.48		
52161:Maintenance - Building	\$36,961.00		\$10,585.30	71.36%
SC2861 Maintenance - Building - 1099 Reportable (GL52161)		\$26,375.70		
52170:Fuels & Lubricants	\$51,750.00		\$23,348.05	54.88%
SC2340 Gasoline, All Types (GL52170)		\$28,401.95		
52180:Materials - Buildings & Improvements	\$1,500.00		\$1,458.20	2.79%
SC2360 Builder's Supplies (GL52180)		\$41.80		
52190:Maintenance - Janitorial	\$6,780.00		\$2,260.00	66.67%
SC2430 Janitorial Management Services - 1099 Reportable (GL52190)		\$4,520.00		
52210:Services	\$342,000.00		\$111,559.25	67.38%
SC2455 Airplane/Helicopter Services NOC - 1099 Reportable (GL52210)		\$230,440.75		
52220:Laboratory Supplies	\$77,300.00		\$44,332.12	42.65%
SC2480 Clinical Laboratory Reagents and Tests (GL52220)		\$1,085.74		
SC2500 Gases, Lab / Medical / Welding (GL52220)		\$4,113.78		
SC2521 Laboratory Supplies (GL52220)		\$27,768.36		
52240:Professional / Membership Dues	\$29,017.00		(\$31.00)	100.11%
SC2550 Membership / Registration / Association / Warranties (GL52240)		\$29,048.00		
52245:Warranties	\$6,284.00		\$1,259.99	79.95%
SC2555 Warranties (GL52245)		\$5,024.01		
52260:Misc Expense	\$0.00		\$6,941.70	0.00%
SC2570 Misc Expense (GL52260)		(\$6,941.70)		
52330:Other Supplies	\$15,918.00		\$11,636.08	26.90%
SC2650 First Aid and Safety Equipment and Supplies (GL52330)		\$2,004.54		
SC2660 Office Supplies (GL52330)		\$2,277.38		
52340:Postage	\$275.00		\$67.27	75.54%
SC2790 Postage (GL52340)		\$207.73		
52360:Professional and Special Services - General	\$151,809.00		\$46,545.21	69.34%
SC2820 Personnel Services - 1099 Reportable (GL52360)		\$12,483.78		
SC2840 Collection Charges - 1099 Reportable (GL52360)		\$77,495.56		
SC2860 SB2557 Property Tax Admin Costs - 1099 Reportable (GL52360)		\$1,120.76		
SC2940 Consulting Services - 1099 Reportable (GL52360)		\$1,050.00		
SC2945 Uniform Rental and Laundry Services - 1099 Reportable (GL52360)		\$3,985.58		
SC3010 Alarm Services - 1099 Reportable (GL52360)		\$5,354.70		
SC3070 AB2838 - LAFCO Fees - 1099 Reportable (GL52360)		\$3,773.41		
52370:Professional and Special Services - Legal	\$15,000.00		\$7,604.75	49.30%

**Placer Mosquito and Vector Control District
Budget to Actuals Fiscal Year to Date February 28th 2023**

Ledger Account / Spend Code	Budget	Actuals	Balance	% of Budget
SC3130 Legal Services - 1099 Reportable (GL52370)		\$7,395.25		
52380:Professional and Special Services - Technical, Engineering and Environmental	\$39,911.00		\$30,207.25	24.31%
SC3150 Grounds Maintenance Services - 1099 Reportable (GL52380)		\$3,625.00		
SC3255 Vector and Disease Testing - 1099 Reportable (GL52380)		\$3,938.00		
SC3280 Security, Fire, Safety, and Emergency Services (GL52380)		\$440.00		
SC3322 Hazardous Waste (GL52380)		\$1,700.75		
52390:Professional and Special Services - County	\$12,001.00		\$196.64	98.36%
SC4705 Internal Professional and Special Services (Non-Interfund Transfer) (GL52390)		\$11,804.36		
52400:Professional and Special Services - Information Technology	\$166,874.00		\$55,981.76	66.45%
SC3360 Information Technology Services - 1099 Reportable (GL52400)		\$21,547.50		
SC3370 Data Processing, Computer, Programming, and Software Services (GL52400)		\$29,588.99		
SC3380 Computer Management Services - 1099 Reportable (GL52400)		\$59,755.75		
52440:Short-Term Rents and Leases - Equipment	\$99,647.00		\$7,253.02	92.72%
SC3460 Short-Term Equipment Rental or Lease Services (GL52440)		\$92,393.98		
52450:Short-Term Rents and Leases - Buildings & Improvements	\$26,989.00		\$8,996.20	66.67%
SC3480 Short-Term Real Property Rental or Lease (GL52450)		\$17,992.80		
52460:Small Tools & Instruments	\$11,000.00		\$7,321.44	33.44%
SC3530 Hardware and Related Items (GL52460)		\$3,678.56		
52480:PC Acquisition	\$10,500.00		\$9,720.97	7.42%
SC3560 Computers, Handheld, Laptop, and Notebook (GL52480)		\$779.03		
52520:Trustee Meetings Compensation	\$8,400.00		\$3,600.00	57.14%
SC3630 Trustee Meetings Compensation - 1099 Reportable (GL52520)		\$4,800.00		
52560:Small Equipment	\$20,000.00		\$4,633.99	76.83%
SC3710 Electronic Equipment, Parts, and Accessories (GL52560)		\$8,369.18		
SC3881 Visual Education Supplies (GL52560)		\$6,996.83		
52570:Advertising	\$75,157.00		\$25,230.86	66.43%
SC3890 Marketing Services - 1099 Reportable (GL52570)		\$49,631.89		
SC3895 Publications and Legal Notices (GL52570)		\$294.25		
52590:Tuition Reimbursement	\$4,000.00	\$3,033.30	\$966.70	75.83%
52650:Landfill Dump Fee	\$110.00	\$0.00	\$110.00	0.00%
52785:Training / Education	\$4,700.00		\$3,117.00	33.68%
SC4000 Educational/Training Services - 1099 Reportable (GL52785)		\$1,583.00		
52790:Transportation and Travel	\$23,385.00		\$7,947.92	66.01%
SC4280 Travel & Transportation (GL52790)		\$14,283.19		
SC4290 Mileage (GL52790)		\$1,153.89		
52800:Utilities	\$79,546.00		\$40,886.71	48.60%
SC4340 Utilities (GL52800)		\$38,659.29		
53040:Lease Purchase Principal	\$279,000.00		\$0.00	100.00%
SC4720 Lease Purchase Principal (GL53040)		\$279,000.00		
53080:Lease Purchase Interest	61,001.00		\$284.48	99.53%
SC4760 Lease Purchase Interest (GL53080)		\$60,716.52		
Total Expenses (Non Capital Assets)	5,665,430.00	3,389,707.22	\$2,275,722.78	59.89%
54450:Equipment	41,753.00	41,753.12	(\$0.12)	100.00%
SC2520 CA Laboratory Equipment (GL54450)		41,753.12		
Total Capital Assets	41,753.00	41,753.12	(\$0.12)	100.00%
Total Expenses	5,707,183.00	3,431,460.34	\$2,275,722.66	60.13%

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Warrants January - February 2023

Payment Date	Payment Category	Payee	Invoice Amount
1/3/2023	Ad Hoc Payment	TED WILLIAMS	150.14
1/6/2023	Supplier Payment	JASSO, DAVID C	395.00
1/6/2023	Supplier Payment	CALPERS	30,997.17
1/9/2023	Supplier Payment	HUNT & SONS INC - Remit-To: PO BOX 101630	1,439.13
1/9/2023	Supplier Payment	PRINCIPAL LIFE INSURANCE COMPANY - Remit-To: PO BOX 77202	4,010.50
1/9/2023	Supplier Payment	HAURY, RITA E	415.50
1/9/2023	Supplier Payment	PACIFIC GAS & ELECTRIC COMPANY - Remit-To: PO BOX. 997300	2,504.40
1/9/2023	Supplier Payment	BURCHAM, KELLY J - Remit-To: 6429 Terra Wy	1,045.99
1/9/2023	Supplier Payment	MEDPRO WASTE DISPOSAL LLC	202.93
1/9/2023	Supplier Payment	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	82.01
1/9/2023	Supplier Payment	ROSEVILLE CITY OF - Remit-To: PO BOX 619136	572.42
1/9/2023	Supplier Payment	ROSEVILLE CITY OF - Remit-To: PO BOX 619136	2,582.32
1/9/2023	Supplier Payment	ROSEVILLE CITY OF - Remit-To: PO BOX 619136	52.58
1/9/2023	Supplier Payment	REPLICON INC	184.00
1/9/2023	Supplier Payment	HARRIS INDUSTRIAL GASES	64.00
1/9/2023	Supplier Payment	VERIZON WIRELESS - Remit-To: Po Box 660108	1,781.33
1/9/2023	Supplier Payment	INFINITY TECHNOLOGIES	6,323.25
1/9/2023	Supplier Payment	LEADING EDGE ASSOCIATES INC	1,800.00
1/12/2023	Supplier Payment	TRIEPEI SMITH & ASSOCIATES INC	8,964.00
1/12/2023	Supplier Payment	TRIEPEI SMITH & ASSOCIATES INC	280.00
1/12/2023	Supplier Payment	VWR FUNDING INC - Remit-To: Po Box 640169	863.74
1/12/2023	Supplier Payment	CITIBANK NA - Remit-To: dba Home Depot Credit Services PO Box 78047	17.87
1/13/2023	Supplier Payment	STAR SECURITY SOLUTIONS INC	379.44
1/13/2023	Supplier Payment	TRUCKSMART INC - Remit-To: 6455 Pacific St	11,736.49
1/13/2023	Supplier Payment	JOHN WALKER HEATING AND COOLING	2,748.94
1/13/2023	Ad Hoc Payment	CASDU - California State Disbursement Unit (SDU)	1,178.76
1/13/2023	Ad Hoc Payment	MEAGAN LUEVANO	1,516.65
1/18/2023	Supplier Payment	HARRIS INDUSTRIAL GASES	194.47
1/18/2023	Supplier Payment	MIDAMERICA ADMINISTRATIVE & RETIREMENT SOLUTIONS	3,205.21
1/18/2023	Supplier Payment	CLARKE MOSQUITO CONTROL PRODUCTS INC	5,146.14
1/18/2023	Supplier Payment	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	98.80
1/18/2023	Supplier Payment	SOUTHWEST GAS CORP - Remit-To: PO BOX 24531	109.60
1/18/2023	Supplier Payment	MASSENGALE, EDWARD	825.00
1/18/2023	Supplier Payment	ADAPCO LLC	73,971.73
1/18/2023	Supplier Payment	STAR INDUSTRIES - Remit-To: 4181 POWER INN ROAD STE D	565.00
1/18/2023	Supplier Payment	LIBERTY UTILITIES CO - Remit-To: Po Box 80374	415.93
1/18/2023	Supplier Payment	US BANK NA - Remit-To: 1310 MADRID ST STE 107	202.37
1/18/2023	Supplier Payment	CONSOLIDATED COMMUNICATIONS OF CALIFORNIA COMPANY	695.64
1/18/2023	Supplier Payment	CONSOLIDATED COMMUNICATIONS OF CALIFORNIA COMPANY	142.20
1/18/2023	Ad Hoc Payment	PHILLIP SPINKS	200.00
1/19/2023	Supplier Payment	MIDAMERICA ADMINISTRATIVE & RETIREMENT SOLUTIONS LLC	10,772.06
1/25/2023	Supplier Payment	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	161.47
1/25/2023	Supplier Payment	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	113.09
1/25/2023	Supplier Payment	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	162.00
1/25/2023	Supplier Payment	US BANCORP	10,131.81
1/25/2023	Supplier Payment	CLARK, PATRICK SPENCER	1,500.00
1/25/2023	Supplier Payment	TRIEPEI SMITH & ASSOCIATES INC	280.00
1/25/2023	Supplier Payment	RIEBES AUTO PARTS LLC - Remit-To: dba NAPA AUTO PARTS 5404 PACIFIC ST	207.59
1/25/2023	Supplier Payment	TEXAS LIFE INSURANCE COMPANY	116.00
1/25/2023	Supplier Payment	HUNT & SONS INC - Remit-To: PO BOX 101630	1,095.47
1/25/2023	Supplier Payment	BUCKMASTER BUSINESS MACHINES	22.97
1/25/2023	Supplier Payment	STAR INDUSTRIES - Remit-To: 4181 POWER INN ROAD STE D	96.55
1/25/2023	Supplier Payment	PRINCIPAL LIFE INSURANCE COMPANY - Remit-To: PO BOX 77202	4,083.90
1/27/2023	Ad Hoc Payment	CASDU - California State Disbursement Unit (SDU)	1,178.76
1/31/2023	Supplier Payment	HUNT & SONS INC - Remit-To: PO BOX 101630	249.51
1/31/2023	Supplier Payment	VECTOR CONTROL JOINT POWERS AGENCY	308.72
1/31/2023	Supplier Payment	KELSIE FIRE EXTINGUISHER SERVICE LLC	65.16
1/31/2023	Supplier Payment	AMERICAN FIDELITY ASSURANCE COMPANY - Remit-To: Po Box 268805	805.73
1/31/2023	Supplier Payment	ARNAUDO BROS LP	2,249.10
2/1/2023	Supplier Payment	JASSO, DAVID C	395.00
2/3/2023	Supplier Payment	VERIZON WIRELESS - Remit-To: Po Box 660108	418.00
2/3/2023	Supplier Payment	VERIZON WIRELESS - Remit-To: Po Box 660108	1,312.95

Warrants January - February 2023

2/3/2023	Supplier Payment	LEADING EDGE ASSOCIATES INC	21,547.50
2/3/2023	Supplier Payment	LIBERTY UTILITIES CO - Remit-To: Po Box 80374	785.38
2/3/2023	Supplier Payment	ROSEVILLE CITY OF - Remit-To: PO BOX 619136	562.52
2/3/2023	Supplier Payment	ROSEVILLE CITY OF - Remit-To: PO BOX 619136	2,723.81
2/3/2023	Supplier Payment	ROSEVILLE CITY OF - Remit-To: PO BOX 619136	58.68
2/3/2023	Supplier Payment	ENTERPRISE FM TRUST	3,242.49
2/3/2023	Supplier Payment	ENTERPRISE FM TRUST	44,085.60
2/3/2023	Supplier Payment	ENTERPRISE FM TRUST	43,493.46
2/3/2023	Supplier Payment	CITIBANK NA - Remit-To: dba Home Depot Credit Services PO Box 78047	8.59
2/3/2023	Supplier Payment	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	113.09
2/6/2023	Ad Hoc Payment	KEIKO PARKER	129.30
2/7/2023	Supplier Payment	PATRICK J ROONEY	200.00
2/7/2023	Supplier Payment	HARRIS INDUSTRIAL GASES	64.00
2/7/2023	Supplier Payment	REPLICON INC	200.00
2/7/2023	Supplier Payment	US BANCORP	8,598.45
2/8/2023	Supplier Payment	CALPERS	30,997.17
2/8/2023	Ad Hoc Payment	MEAGAN LUEVANO	142.85
2/9/2023	Supplier Payment	ZIONS BANCORPORATION NA	28,081.62
2/9/2023	Supplier Payment	CLARK, PATRICK SPENCER	1,500.00
2/9/2023	Supplier Payment	BURCHAM, KELLY J - Remit-To: 6429 Terra Wy	1,045.99
2/9/2023	Supplier Payment	FUTURE FORD INC - Remit-To: 650 Auto Mall Dr	169.55
2/9/2023	Supplier Payment	PACIFIC GAS & ELECTRIC COMPANY - Remit-To: PO BOX. 997300	2,695.09
2/9/2023	Supplier Payment	MIDAMERICA ADMINISTRATIVE & RETIREMENT SOLUTIONS	3,205.21
2/9/2023	Supplier Payment	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	161.47
2/9/2023	Supplier Payment	HAURY, RITA E	415.50
2/9/2023	Supplier Payment	SPARK CREATIVE DESIGN	451.00
2/9/2023	Supplier Payment	SACRAMENTO-YOLO MVCD	17,466.88
2/9/2023	Supplier Payment	SACRAMENTO-YOLO MVCD	15,937.75
2/9/2023	Supplier Payment	RIEBES AUTO PARTS LLC - Remit-To: dba NAPA AUTO PARTS 5404 PACIFIC ST	28.82
2/10/2023	Ad Hoc Payment	CASDU - California State Disbursement Unit (SDU)	1,178.76
2/16/2023	Ad Hoc Payment	ESMERALDA MENDOZA	1,160.44
2/17/2023	Supplier Payment	INFINITY TECHNOLOGIES	6,873.25
2/17/2023	Supplier Payment	VWR FUNDING INC - Remit-To: Po Box 640169	133.34
2/17/2023	Supplier Payment	VWR FUNDING INC - Remit-To: Po Box 640169	217.63
2/17/2023	Supplier Payment	VWR FUNDING INC - Remit-To: Po Box 640169	203.29
2/17/2023	Supplier Payment	VWR FUNDING INC - Remit-To: Po Box 640169	130.33
2/21/2023	Supplier Payment	LIFE TECHNOLOGIES CORPORATION	2,485.02
2/21/2023	Supplier Payment	TEXAS LIFE INSURANCE COMPANY	116.00
2/21/2023	Supplier Payment	CONSOLIDATED COMMUNICATIONS OF CALIFORNIA COMPANY	696.33
2/21/2023	Supplier Payment	CONSOLIDATED COMMUNICATIONS OF CALIFORNIA COMPANY	142.41
2/21/2023	Supplier Payment	SOUTHWEST GAS CORP - Remit-To: PO BOX 24531	141.11
2/21/2023	Supplier Payment	US BANK NA - Remit-To: 1310 MADRID ST STE 107	186.87
2/21/2023	Supplier Payment	HUNT & SONS INC - Remit-To: PO BOX 101630	1,611.22
2/24/2023	Supplier Payment	STAR INDUSTRIES - Remit-To: 4181 POWER INN ROAD STE D	565.00
2/24/2023	Supplier Payment	ENVIRO CERTIFICATION SERVICES	1,370.00
2/24/2023	Supplier Payment	LEADING EDGE ASSOCIATES INC	13,119.75
2/24/2023	Supplier Payment	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	115.74
2/24/2023	Supplier Payment	TRIPEPI SMITH & ASSOCIATES INC	280.00
2/24/2023	Supplier Payment	THE PERMANENTE MEDICAL GROUP INC - Remit-To: File 50016	65.00
2/24/2023	Supplier Payment	BUCKMASTER BUSINESS MACHINES	38.08
2/24/2023	Ad Hoc Payment	CASDU - California State Disbursement Unit (SDU)	1,178.76

Board Review and Consideration to Purchase Mosquito Larvicides

Background:

Based on consistent performance and cost. The District has selected adulticides, Dibrom™ and Evergreen Air 5-25™ for use in our mosquito adulticide program, and Valent Bioscience's biorational larvicide (Bti) products for use in our mosquito larvicide program. Azelis is the sole source vendor for Valent Bioscience larvicide and for Dibrom™ and Evergreen adulticides.

Azelis is offering a 2.5% discount for Vectobac (Bti) larvicide products used by the District for larval control of mosquito in irrigated rice fields and other areas of standing water. Reign is an adjuvant used to prevent evaporation when applying liquid Vectobac 12 AS.

Below is the bulk of the 2023 mosquito season pesticide purchase order.

Item 1:

Qty	Description	Price
1	Evergreen Air 5-25 (55 gal. drums)	\$10,298.75
5	Dibrom (30 gal drums)	\$39,643.50
60	Reign (2.5 gal. jugs)	\$3,675.00
15	VectoMax FG 40 lbs bags	\$5,472.00
20	VectoBac 12AS (264 GALLON Totes)*	\$161,647.20
40	VectoBac GR (2000 lb Super Sacks)*	\$152,100.00
80	VectoBac GR (40 lb. bags)*	\$6,084.00
15	VectoBac G (40 lb. Bags) *	\$1,017.90
80	VectoBac GR (40 lb. Bags) *	\$6,084.00
	Sub Total	\$386,022.35
	Est. TAX	\$29,916.73
	Shipping	included
	TOTAL	\$415,939.08

*Reflects 2.5% discount

Item 2:

The District is requesting the use of available emergency funds to purchase additional mosquito larvicide products in anticipation of increased West Nile virus vector mosquito activity this season due to the extreme rainfall this spring, and preparation for more invasive mosquito detections.

Qty	Description	Price
30	VectoPrime (40 lb Bags)	\$4,160.00
15	VectoBac WDG (40 lb Bags)	\$19,329.60
	Sub Total	\$29,154.00
	Est. TAX	\$2,259.44
	Shipping	<i>included</i>
	TOTAL	\$31,413.44

Staff Recommendation:

Staff recommends that the Board authorize the District General Manager to purchase mosquito larvicides as presented.

RESOLUTION NO. 2023-02 - DRAFT

**A RESOLUTION OF THE BOARD OF TRUSTEES
OF THE PLACER MOSQUITO AND VECTOR CONTROL DISTRICT
DIRECTING THE PREPARATION OF THE ENGINEER'S REPORT FOR THE
MOSQUITO CONTROL DISTRICT AND EAST COUNTY MOSQUITO CONTROL AND
DISEASE PREVENTION ASSESSMENT DISTRICT**

WHEREAS, the Placer Mosquito and Vector Control District (formerly known as the Placer Mosquito Abatement District, the "District") is authorized, pursuant to the authority provided in Health and Safety Code Section 2082 and Article XIID of the California Constitution, to levy assessments for mosquito, vector and disease control projects and services; and

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

WHEREAS, on July 24, 2000, by its Resolution No. 2000-03, the Board approved the formation and levying of assessments of the Mosquito Control District ("West County") pursuant to the provisions of Health and Safety Code section 2080 and the provisions of California Constitution Article XIII-D; and

WHEREAS, on July 26, 2004, by its Resolution No. 2004-12, the Board approved the formation and levying of assessments of the East County Mosquito Control and Disease Prevention Assessment District ("East County") pursuant to the provisions of Health and Safety Code section 2080 and the provisions of California Constitution Article XIII-D; and

NOW, THEREFORE BE IT RESOLVED, that SCI Consulting Group is hereby designated as Engineer of Work for purposes of these proceedings and is hereby ordered to prepare Engineer's Reports in accordance with Article 4 of Chapter 1 of Act and Article XIID of the California Constitution. Upon completion, the Engineer shall file the Reports with the Clerk of the Governing Board for submission to the Board.

PASSED AND ADOPTED by the Board of Trustees of the Placer Mosquito and Vector Control District on the 20th day of March 2023 by the following vote:

AYES: ∅
NOES: ∅
ABSTAIN: ∅
ABSENT: ∅

Jill Gayaldo, Board President

Attest:

Isabel Alvarez, Board Secretary

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RESOLUTION NO. 2023-03 - DRAFT

**A RESOLUTION OF THE BOARD OF TRUSTEES
OF THE PLACER MOSQUITO AND VECTOR CONTROL DISTRICT
DIRECTING THE PREPARATION OF THE ENGINEER'S REPORT FOR THE
EXPANDED SERVICES AND PERMANENT FACILITY ASSESSMENT**

WHEREAS, the Placer Mosquito and Vector Control District (formerly known as the Placer Mosquito Abatement District, the "District") is authorized, pursuant to the authority provided in Health and Safety Code Section 2082 and Article XIID of the California Constitution, to levy assessments for mosquito, vector and disease control projects and services; and

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

WHEREAS, on July 16, 2007, by its Resolution No. 2007-10, the Board approved the formation and levying of assessments of the Expanded Services and Permanent Facility Assessment pursuant to the provisions of Health and Safety Code section 2080 and the provisions of California Constitution Article XIII-D; and

NOW, THEREFORE BE IT RESOLVED, that SCI Consulting Group is hereby designated as Engineer of Work for purposes of these proceedings and is hereby ordered to prepare Engineer's Reports in accordance with Article 4 of Chapter 1 of Act and Article XIID of the California Constitution. Upon completion, the Engineer shall file the Reports with the Clerk of the Governing Board for submission to the Board.

PASSED AND ADOPTED by the Board of Trustees of the Placer Mosquito and Vector Control District on the 20th day of March 2023 by the following vote:

AYES: ∅

NOES: ∅

ABSTAIN: ∅

ABSENT: ∅

Jill Gayaldo, Board President

Attest:

Isabel Alvarez, Board Secretary

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Board Review and Consideration to Purchase Replacement UAS for Mosquito Control Applications

Background:

The District requires replacement of our unmanned aircraft used to apply mosquito control products. Our existing spray drone (DJI AGRAS MG-1s) has been in service since 2017 and recently developed a problem with the map in the controller following a firmware update. This seems to be a widespread problem with this make and model and seems to be related to its being at end of life. Please see staff report from Scott Schon, attached.

It is critical to have a U.S. made <55lb spray drone this season to do the following:

1. Treat rice and other areas with mosquito larvicide that are difficult to access or need additional treatments.
2. Test a new mosquito adulticide sprayer that we are working to develop with an agricultural engineering firm that will likely get funded by a federal grant (Deployed Warfighter Protection Program).
3. Anticipate increasing concern over use of foreign UAS by government agencies and look at shifting spray drones to US-made NDAA-compliant models.

We have done some significant research and there is only one small spray drone that meets our needs, the Hyllo AG-110. Hyllo is a sole source for the agricultural spray drone of this size that we require. We have received a quote for \$21,240 + tax for a complete system. They require 50% down to start production with a lead time of 12 weeks. We have funds for this purchase in our capital fund, however we did not budget for this specifically in the current budget.

The attached quotation also includes pricing for a larger spray drone, AG 130, which increases the capacity of operations in rural areas such as agricultural fields. We anticipate recommending, purchase of the larger UAS in addition to the smaller one in a future fiscal year.

Fiscal Impact:

Funds for equipment replacement are available in the capital asset designation.

Staff Recommendation:

Staff recommends that the Board authorize the District General Manager to purchase the Hyllo AG-110 UAS system as presented not to exceed \$25,000.

3-13-23

Recommendation for new Spray Drones

Prepared by Scott Schon

In December 2017 the District purchased its first spray drone, DJI AGRAS MG-1S. This unmanned aircraft system (UAS) was a great turnkey UAS, and one of the best options at the time. Over the last few years we have conducted many trials and treatments evaluating this technology in mosquito control, and quickly learned that UAS are valuable tools in helping us accomplish our mission.

According to the manufacture DJI, this system had a production suspension time of January 2018 and a service suspension time of January 31, 2023. Announcement here:

<https://support.dji.com/help/content?customId=en-us03400007185&spaceId=34&re=US&lang=en&documentType=artical&paperDocType=paper&encryptId=PAYvCA4WSpLvEhJMUSD1KA%25253D%25253D>

At the first of the year, we noticed a failure in our maps loading on our UAS transmitter. As we dug deeper into the issue, we found that DJI updated their map services, and these new services were included in the new firmware v5.3.0.1. After downloading and installing the new firmware we discovered we lost the ability to zoom into the map to see our location. We have been working with DJI over the last month to find solutions, but they have offered up very little assistance as of today.

UAS remote pilots depend heavily on their maps when verifying location of aircraft, obstacle avoidance mapping, and spray block design. The vast majority of UAS applications (96%) are autonomous which require the pilot to place way points on the map of their remote to construct a spray block. With this no longer being an option, I recommend we ground the District's MG-1S for any future autonomous applications.

Over the last 6 years, like with most technology, spray drones have continued to progress and become even more technologically advanced then previous systems. We as end users have become more educated and have watched the industry grow and systems improve which has given us a good sense of what we want in a UAS.

Components of a new system would include things like a FPV camera to improve situational awareness, obstacle avoidance radar, customer service, remote ID compatible, and easy to use software to help with planning, treating, and reporting UAS applications. All things our current system is lacking, even when working properly.

With regulatory issues like the 2019 National Defense Authorization Act (NDAA) Section 889, and other states starting to ban drones made overseas we feel it is important to go with a US based company like Hylío Drones. Hylío <https://www.hyl.io/> is based in Texas where they build their own drones and write their own software. Being US-based and manufacturing a lot of their own parts in-house will help with the availability of spare parts as well as being able to get in touch with someone for customer service.

With our current system grounded and lacking a lot of the new safety features mentioned above I recommend replacing our DJI AGRAS MG-1S with at least one new Hylío UAS.

Scott Schon

Chief Supervisor Agricultural Aircraft Operations

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Hyllo, Inc.

1020 Agnes Road

Richmond, TX 77469

Sales: +1-832-219-6778

General: +1-877-495-4669

<https://www.hyl.io>orders@hyl.io**CONFIGURATOR QUOTE**

QUOTE ID: BDD99B1C

1X AG130 / 1X AG110 + SPRDS

KURTGEORGE@HYL.IO



QTY	PRODUCT	UNIT PRICE	TOTAL PRICE
1	AG-130 Base Price	\$30,520.00	\$30,520.00
1	FPV Camera System	included	
1	20L Spreader System	\$4,000.00	\$4,000.00
1	Obstacle Avoidance System	included	
1	Handheld RC Controller	included	
1	AG-130 Toolkit	included	
1	2 Pumps + 2 Flowmeters Spray System	\$560.00	\$560.00
1	FAA Regulatory Onboarding	included	
			KIT TOTAL \$35,080.00
1	AG-110 Base Price	\$17,240.00	\$17,240.00
1	10L Spreader System	\$3,200.00	\$3,200.00
1	FPV Camera System	included	
1	Intelligent Pump System	\$800.00	\$800.00
1	AG-110 Toolkit	included	
1	Obstacle Avoidance System	included	
1	Handheld RC Controller	included	
1	FAA Regulatory Onboarding	included	
			KIT TOTAL \$21,240.00

ACCESSORIES

QTY	PRODUCT	UNIT PRICE	TOTAL PRICE
12	12S 16000 mAh Battery	\$674.99	\$8,099.88
6	3000w Battery Charger	\$861.25	\$5,167.50
1	Spare Parts Kit AG-110	\$1,153.53	\$1,153.53
1	Spare Parts Kit AG-130	\$1,446.07	\$1,446.07
		50% DEPOSIT \$36,093.49	GRAND TOTAL \$72,186.98

Terms

Minimum of 50% of total due to begin production

Remaining balance due before shipment

Payment Instructions

Please contact our sales team at (832) 219-6778 to pay by electronic bank transfer

Pay by Check:

Make Check Payable to: Hylío, Inc.

Mail Check to: 1020 Agnes Rd, Richmond, TX 77469

Purchase Orders:

Send Purchase Orders to: orders@hyl.io

TANK CAPACITY

2.6 gallons

EFFICIENCY

Up to 15 ac/hr @ 1gpa

MAX SPRAY RATE

2.1 gpm

SWATH WIDTH

Up to 20 feet



AG-110

AGRICULTURAL SPRAY DRONE
OPERATIONAL: 46" x 46" x 24" | FOLDED: 23" x 23" x 20"

Your Kit Includes:**Tank Capacity**

2.6 gallon tank

Efficiency

Up to 15 acres per hr @ 1 gallon per acre

Max Spray Rate

2.1 gallons per minute (no nozzles max)

Swath Width

Up to 20 feet

Obstacle Avoidance

Millimeter-wave radars (both forward and backward facing)

FPV

1080p HD first-person-view live camera feed

Toolkit

Includes torque wrench, pliers, screwdrivers, digital level, GPS tracker, and more

Software

Lifetime license to AgroSol (Ground Control Software) standard edition

Training

Comprehensive manuals and simulation training program

Shipping

Domestic shipping to 48 contiguous states, drone is shipped fully assembled

Regulatory Assistance

FAA documentation and consulting

One Year Manufacturer Warranty

Covers manufacturer defects

TANK CAPACITY

8 gallons

EFFICIENCY

Up to 50 ac/hr @ 1gpa

MAX SPRAY RATE

2.6 gpm

SWATH WIDTH

Up to 35 feet



AG-130

AGRICULTURAL SPRAY DRONE
OPERATIONAL: 81" x 81" x 35" | FOLDED: 44" x 44" x 35"

Your Kit Includes:**Tank Capacity**

Two 4 gallon tanks = 8 gallons

Efficiency

Up to 50 acres per hr @ 1 gallon per acre

Max Spray Rate

2.6 gallons per minute (no nozzles max)

Swath Width

Up to 35 feet

Obstacle Avoidance

Millimeter-wave radars (both forward and backward facing)

FPV

1080p HD first-person-view live camera feed

Toolkit

Includes torque wrench, pliers, screwdrivers, digital level, GPS tracker, and more

Software

Lifetime license to AgroSol (Ground Control Software) standard edition

Training

Comprehensive manuals and simulation training program

Shipping

Domestic shipping to 48 contiguous states, drone is shipped fully assembled

Regulatory Assistance

FAA documentation and consulting

One Year Manufacturer Warranty

Covers manufacturer defects

Board Review and Consideration to hire ACE Asphalt to Perform Parking Lot Maintenance.

Background:

The District has identified normal wear and cracking in the parking lot asphalt at the District headquarters in Roseville. To prevent further damage and increased maintenance costs in the future, General Manager Buettner asked staff to contact asphalt contractors to inquire about maintenance work, and repair damaged asphalt in eight locations to include the removal of concrete curbs surrounding landscaping in the parking lot. Following the repairs, the parking lot would be sealed and restriped.

Three licensed contractors were contacted, and two quotes were received:

Action Asphalt \$27,995

ACE Asphalt \$19,819

J&S Asphalt no bid submitted.

ACE Asphalt was the lowest responsible bid.

Fiscal Impact:

Funds for facility maintenance are available in the capital asset designation.

Staff Recommendation:

Staff recommends that the Board authorize the District General Manager to negotiate a contract with ACE Asphalt to perform the scope of work as presented not to exceed \$21,400.



Paving & Grading ~ Parking Lot Striping ~ Asphalt Sealcoat

ESTIMATE # 22A-215

CA. LIC. # 651790
State of CA SBE #11824
DIR Registration #1000813052
Bond Rate 1% Min. \$300

DATE:	12/15/2022
BID DATE:	

8464 Specialty Circle
Sacramento, CA 95828
(916) 383-1711 Office (916) 383-3773 Fax

Attn **Mike**
TO: **PLACER MOSQUITO & VECTOR
CONTROL DISTRICT
MIKE ASHLEY
2021 OPPORTUNITY DR
ROSEVILLE CA 95678**

Project	Asphalt, Seal & Striping
ADDRESS:	2021 Opportunity Dr
CITY:	Roseville, CA
ESTIMATOR:	Rick
PREVAILING WAGE:	YES

ITEM #	QTY	DESCRIPTION	TOTAL
1		ASPHALT REPAIRS:	10,119.00
	1,078	SF. EXCAVATE (APPX: 1,078 SF) OF DAMAGED ASPHALT TO 4" AT (8) LOCATIONS. COMPACT EXISTING BASE MATERIAL AND APPLY TACK OIL.	
	1,078	SF. PAVE (APPX: 1,078 SF) WITH 4" OF HOT ASPHALTIC CONCRETE AND ROLL TO COMPACTION.	
	1	EA. RAISE EXISTING G-5 UTILITY BOX AND PLACE ASPHALT AROUND LID.	
	1	EA. WEEKDAY MOBILIZATION TO JOBSITE	
2		ASPHALT SEAL COAT & STRIPING:	7,150.00
	26,200	SF. SEALCOAT ASPHALT SURFACE.. BROOM & AIR SWEEP ASPHALT PARKING AREA PRIOR TO APPLICATION. APPLY (1) COAT OF RAYNGUARD "STEELGUARD" ASPHALT PAVEMENT SEALER (SQUEEGEE APPLIED METHOD. BARRICADE UNTIL DRY.	
	52	PARKING STALLS (SINGLE LINE WHITE)	
	2	HANDICAPPED STALLS	
	1	CROSSHATCHED AREA W/ 12" NO PARKING (18'X20')	
	1	CROSSHATCHED CROSSWALK	
	3	8" VISITOR Stencil	
	1	EA. WEEKDAY MOBILIZATION TO JOBSITE	
3		OPTION #1 HOT RUBBERIZED CRACKFILL (PRIOR TO SEAL COAT)	2,550.00
	985	LF. CLEAN OUT CRACKS (1/4"-1" WIDE) IN PAVEMENT AND FILL WITH "CRAFCO" SUPER-FLEX HT HOT MELT CRACKFILL MATERIAL.	
		EXCLUDES: Permits, Utilities, Underground, Landscape, Pressure Wash Asphalt Prior To Seal, Weekend Work.	

*We cannot comply under Skilled & Trained Workforce unless As Per SB 693 Exception:
Excuses compliance with graduation percentages for subs not listed as subs on bid and where sub doesn't exceed 1/2 of 1% of prime contract price.*

ACCEPTANCE OF PROPOSAL: Work to be completed in a workmanlike manner according to standard practices. Any alterations or deviations from the above specifications will become an extra charge. Unless otherwise stated in the estimate the area should be clean of dirt, debris and all obstacles. If we are required to clean prior to work or return because of obstacles in our area of work this will become an extra charge. Unless stated any work done on week-ends will be subject to additional charges.

TOTAL	\$19,819.00
--------------	--------------------

The above prices, specifications and provisions are satisfactory and are hereby accepted If a work order or purchase order is required, please provide us the number.
Ace Asphalt is authorized to do the work specified. Payment will be due upon completion and/or receipt of invoice. Prices are only good for the next 1 month. Subject to material and labor increases after that time.

Date of Acceptance: _____ By: _____ JOB / PO / WO #: _____

Board Review and Consideration to Purchase UTV Trailer.

Background:

The District requires replacement of our utility trailer used to transport a side-by-side UTV.

The District has obtained three quotes for purchasing a new trailer to transport the District's UTV (side-by-side). The current trailer is over 20 years old and was originally used to transport the Argo amphibious vehicle, then repurposed to carry the John Deere Gator in 2019.

Staff compared quotes and characteristics of three different trailers (attached), and recommends purchase of the UL Cal Trailer, which is a 14 foot, tandem-axle trailer, 83" wide with a capacity of 5000 lbs. Other trailers were rejected due to size constraints in the warehouse, and weight capacity.

Fiscal Impact:

Funds for equipment replacement are available in the capital asset designation.

Staff Recommendation:

Staff recommends that the Board authorize the District General Manager to purchase the UL Cal Trailer Tandem Axle (quote 1), not to exceed \$7,000.

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35530 Antelope Rd
 Murrieta, CA 92563
 (951) 901-5780
www.CaliforniaTrailers.com

Invoice

1/26/2023

Bill To: Mike Ashley
 916.380.5444
 2021 Opportunity Drive Roseville, CA 95678
mikea@placermosquito.org

Salesperson	VIN	Stock Number	Payment Form
Demi	Special Order	N/A	Cash / Check
Qty	Description	Unit Price	
1.00	14' (UL) 83" Tndm Axle Channel Utility, black, 2" coupler, Straight Deck w/ 4' Fold-up Gate, (2) 3,500# (Dexter) Idler / Spring axel, Front Toolbox, Spare Tire and Mount	\$	5,800.00
	Parts		
	Labor		
	10% non refunable deposit required		
	Notes: Credit Card + 2%, Finance Amt +4%		
	** Please Note: Price subject to change upon final delivery!! **		
	8-12 Week lead time. Customers are responsible for any price increase from PJ, Haulmark, or Compass		

Item Subtotal	\$ 5,800.00
Unit Sales Tax	\$ 449.50
Freight	\$ 150.00
DOC Fee	\$ 70.00
Dealer Fees	
Transfer Fee	
Retail Sales Tax	\$ 19.25
DMV License	\$ 74.00
Labor	\$ -
Deposit	
Total Due:	\$ 6,562.75

This estimate is based on our initial inspection only, and does not cover any additional material or labor which may be necessary after work has been begun. Occasionally, after work has started, worn and/or damaged parts or circumstances are discovered which are not evident on first inspection. As such, the prices described are not guaranteed.

Signature: _____

** Please Note: Price subject to change upon final delivery!! **

TrailersPlus Live Oak
2240 Bishop Ave
Live Oak, CA 95953
Phone: 530-617-1419

Salesperson: Trenton Sellers
www.TrailersPlus.com

Customer: Mike Ashlee
Quote Number: 50310
Created On: 02-07-2023 03:45:56

CO6X14GW2BRK

6'4" X 14 Tandem Utility

VIN: 4YMBU142XPR000928
Located In: Live Oak, CA

Quote Detail:

PartNumber	QTY	Description	Units	Extended
CO6X14GW2BRK	1.00	6'4" X 14 Tandem Utility, Wood Floor, Rear Gate VIN:4YMBU142XPR000928	EACH	\$6509.00
DISCOUNT	1.00	Dealer Discount Pre-approved	EACH	\$-2020.00
	1.00	DISCOUNTED TRAILER PRICE		\$4489.00
07-RT2001-FLM	4.00	Surface Mount Rope Tie with Spacer	Piece	\$16.24
95-CO00797	1.00	Carry-On Solid Tongue Box	Piece	\$441.96
10-TM0005-CH	1.00	Spare Tire Mount 5 Hole on 4-1/2" Bolt Pattern w/ Chain	Each	\$41.76
WELDING	2.00	30 Minutes of Welding labor	Piece	\$180.00
LABOR	1.00	Labor Charge per 30 Minutes	Time	\$75.00
02-TR0015-BLK	1.00	Tire Radial 205/75R15C on 5 Hole 545 Blk Mod Wheel	Piece	\$278.40
		Total:		\$5522.36

Payments as low as \$115.82 Per Month*

* For well qualified applicants. On Approved Credit, 9.99% APR, 60 Month term. Excludes tax, tag, title and doc fees and any accessories not listed on this quote. Quotes valid for 2 days and subject to prior sale. Quotes are valid for the specific trailer identified by the VIN number. Quotes may not include any applicable taxes, documentation or title fees, tire fees and or any other recommended accessories. Starting prices are based on lowest cash prices of comparable trailers in district.

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Board Review and Consideration to Amend the District Budget for Fiscal Year 2022-23

Background:

The following amendments to the FY 22-23 budget are requested.

1. Parking lot maintenance and repair project at the Roseville facility was considered by the board under a separate agenda item. If approved, we request \$21,400 be allocated from Capital Asset Designation OT991007 Capital Assets (30210) to SC2861 Maintenance-Building (52161)
2. Replacement of the District's mosquito control application drone was considered by the board under a separate agenda item. If approved, we request \$25,000 be allocated from Capital Asset Designation OT991007 Capital Assets (30210) to SC2680 FA Aircraft and Airport Equipment (GL54450)
3. Replacement of the District's trailer used to transport a side-by-side UTV was considered by the board under a separate agenda item. If approved, we request \$7,000 be allocated from Capital Asset Designation OT991007 Capital Assets (30210) to SC5220 FA Trailers (GL54450)
4. The District keeps an emergency response designation to fund the first two seasons of a new invasive mosquito infestation, and to fund larger than average outbreaks of West Nile virus vectoring mosquito species. Our normal practice is to track emergency response costs as they occur, and replenish the current year's budget with funds from the emergency response designation as a budget amendment. We request \$79,744 be allocated from Emergency Response Designation OT991017 Other (30210) to the spend categories / ledger accounts shown on the attached spreadsheet.

Fiscal Impact:

These proposed budget amendments draw funds from capital asset and emergency response reserves for unforeseen needs not included in the current FY 2022-23 budget.

Staff Recommendation:

Staff recommends that the Board approve Resolution 2023-04 Amending the District Budget for Fiscal Year 2022-23.

Date	Supplier as Worktag	Amount	Line Memo	Spend Category	Program
9/8/2022	ADAPCO LLC	12,794	2307-004	SC2030 Poisons, Pesticides and Chemicals - Agricultural and Industrial (GL52020)	PG703001 Invasive Response
11/1/2022	ADAPCO LLC	21,324	2307-006 VECTOBAC WDG 20 X 25LB	SC2030 Poisons, Pesticides and Chemicals - Agricultural and Industrial (GL52020)	PG703001 Invasive Response
		34,118			
11/1/2022	US BANCORP	273	Agricameras Backup Cam Invasives 2307-007	SC2200 Automotive Accessories, Equipment and Parts (GL52140)	PG703001 Invasive Response
		273			
9/1/2022	HARRIS INDUSTRIAL GASES	105	DRY ICE 8/31/22	SC2500 Gases, Lab / Medical / Welding (GL52220)	PG703001 Invasive Response
9/7/2022	HARRIS INDUSTRIAL GASES	105	DRY ICE 9/07/22	SC2500 Gases, Lab / Medical / Welding (GL52220)	PG703001 Invasive Response
9/12/2022	HARRIS INDUSTRIAL GASES	248	DRY ICE 9/12/22	SC2500 Gases, Lab / Medical / Welding (GL52220)	PG703001 Invasive Response
9/19/2022	HARRIS INDUSTRIAL GASES	275	DRY ICE 9/19/22	SC2500 Gases, Lab / Medical / Welding (GL52220)	PG703001 Invasive Response
9/26/2022	HARRIS INDUSTRIAL GASES	275	DRY ICE 9/26/22	SC2500 Gases, Lab / Medical / Welding (GL52220)	PG703001 Invasive Response
10/1/2022	HARRIS INDUSTRIAL GASES	198	DRY ICE 9/19/22	SC2500 Gases, Lab / Medical / Welding (GL52220)	PG703001 Invasive Response
11/1/2022	US BANCORP	140	Barnes Welding - Dry Ice Invasives	SC2500 Gases, Lab / Medical / Welding (GL52220)	PG703001 Invasive Response
12/1/2022	US BANCORP	70	Barnes Welding - Dry Ice Invasives	SC2500 Gases, Lab / Medical / Welding (GL52220)	PG703001 Invasive Response
		1,415			
10/1/2022	US BANCORP	450	Invasive Supplies 2307-003	SC2521 Laboratory Supplies (GL52220)	PG703001 Invasive Response
11/1/2022	US BANCORP	62	Amazon 2307-005 Invasives	SC2521 Laboratory Supplies (GL52220)	PG703001 Invasive Response
		512			
12/1/2022	US BANCORP	210	Amazon 2307-005 Invasives	SC2650 First Aid and Safety Equipment and Supplies (GL52330)	PG703001 Invasive Response
		210			
9/16/2022	RIEBES AUTO PARTS LLC	22	INVASIVES	SC3530 Hardware and Related Items (GL52460)	PG703001 Invasive Response
10/1/2022	CITIBANK NA	35	INVASIVE HARDWARE	SC3530 Hardware and Related Items (GL52460)	PG703001 Invasive Response
		57			
8/1/2022	US BANCORP	3,160	Invasives PO 2307-001 & 2307-002	SC3710 Electronic Equipment, Parts, and Accessories (GL52560)	PG703001 Invasive Response
		3,160			
Pending	AZELIS	<u>40,000</u>	Larvicides	SC2030 Poisons, Pesticides and Chemicals - Agricultural and Industrial (GL52020)	
		<u>79,744</u>			

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**A RESOLUTION OF THE BOARD OF TRUSTEES
OF THE PLACER MOSQUITO AND VECTOR CONTROL DISTRICT
AMENDING THE DISTRICT BUDGET
FOR FISCAL YEAR 2022-23**

WHEREAS, The Board of Trustees (the "Board") of the Placer Mosquito and Vector Control District (the "District") County of Placer, State of California, have reviewed the budget and desire to change the approved final District Budget, and

NOW, THEREFORE BE IT RESOLVED as follows:

1) Amend the District Budget for Fiscal Year 22-23 by adjusting the following:

\$21,400 from Capital Asset Designation OT991007 Capital Assets (30210) to SC2861 Maintenance-Building (52161)

\$25,000 from Capital Asset Designation OT991007 Capital Assets (30210) to SC2680 FA Aircraft and Airport Equipment (GL54450)

\$7,000 from Capital Asset Designation OT991007 Capital Assets (30210) to SC5220 FA Trailers (GL54450)

\$79,744 from Emergency Response Designation OT991017 Other (30210) to the following accounts:

- \$74,118 to SC2030 Poisons, Pesticides and Chemicals - Agricultural and Industrial (GL52020)
- \$272 to SC2200 Automotive Accessories, Equipment and Parts (GL52140)
- \$1,415 to SC2500 Gases, Lab / Medical / Welding (GL52220)
- \$512 to SC2521 Laboratory Supplies (GL52220)
- \$210 to SC2650 First Aid and Safety Equipment and Supplies (GL52330)
- \$57 to SC3530 Hardware and Related Items (GL52460)
- \$3,160 to SC3710 Electronic Equipment, Parts, and Accessories (GL52560)

PASSED AND ADOPTED by the Board of Trustees of the Placer Mosquito and Vector Control District on the 23rd day of January 2023 by the following vote:

AYES: ∅

NOES: ∅

ABSTAIN: ∅

ABSENT: ∅

Jill Gayaldo, Board President

Attest:

Isabel Alvarez, Board Secretary

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Public Information and Outreach Report

Reporting period: January/February

Prepared by: Meagan Luevano, Public Information Officer

AT-A-GLANCE

- Presented at MVCAC and AMCA
- MVCAC Leg Day on March 21
- 2 school assemblies complete, 6 to go!
- Mosquito Awareness Week media event @ Rock Creek Elementary in Rocklin on April 17
- Advertising planning
- Summer social media intern planning

INTERNAL COMMUNICATIONS & NEWS

- Ongoing customer satisfaction survey – development in progress.
- Staff and Board photoshoot and headshots – April 6

MEDIA RELATIONS

- Planning for Mosquito Awareness Week press outreach, collaboration with Rocklin Unified PIO

PROFESSIONAL TRAININGS & CONFERENCES

- Attending Science Talk sci-comm virtual conference in April
- CAPIO 2023 in May

COMMUNITY OUTREACH AND EDUCATION EVENTS

- Lincoln HS and Twelve Bridges Career Fairs, March 21 and April 18
- Master Gardeners Event @ Maidu in Roseville on April 22

SCHOOL OUTREACH

- Two assemblies complete – Cirby and Sargent Elementary

OUTREACH MATERIALS/SOCIAL MEDIA/ADVERTISING

- Ongoing social media development
- Monthly eblasts
- Summer advertising planning



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Field Operations and Surveillance Report

Prepared March 13, 2023

Assistant Manager: Jake Hartle

Mosquito & Tick Surveillance

- **Adult Mosquito Abundance**
 - Adult abundance traps continue to collect low amounts of mosquitoes, while numbers are still low, both abundance and species diversity should start increasing when the rain decreases, and day and nighttime temperatures increase.
 - We are planning to begin our peak season trapping schedule starting the first week in April, though this is dependent on weather and staffing resources.
- **Vector-borne Disease Testing**
 - To ensure quality control and consistency of disease testing among local agencies' labs, a proficiency panel is provided annually by Davis Arbovirus Research and Training (DART). The results of this panel are reviewed and published by DART, and if results are not sufficiently similar to the reference results, DART works with the local lab to ensure that disease testing labs meet minimum sensitivity and accuracy benchmarks.
 - Senior Research Scientist Phil Spinks has nearly completed the District's panel. Once submitted, we expect results from DART within a couple weeks.

Field Operations

- **Arena Air 2023: Aerial larvicide contract**
 - Russ Stocker has returned the 2023 aerial larvicide contract, it is expected to be reviewed and completed by March 17.
- **Aerial and Ground product and equipment calibration:**
 - Arena Air: Aerial larvicide calibration is scheduled for the third week of April. Two fixed winged aircrafts will be calibrated for liquid and granular products.
 - Truck Adulticide: Dennis Candito, a representative from Azelis, will be onsite in April to characterize droplet sizes for our truck mounted and handheld adulticide equipment.
- **Source Work**
 - Field technicians continue to check mosquito sources and respond to service requests in their zones.

General Updates

- **Welcome New Employees**

- On March 6, 2023, we welcomed three new employees to our surveillance team. This is an exciting time for the district as we reached 25 total employees and are at full staffing for the surveillance team.
 - Vector Biologist: Casey Hubble
 - VCT Surveillance: Tyler Stuhaan
 - VCT Surveillance: Elizabeth Slagboom

- **Pesticide Safety Training**

- Dennis Candito from Azelis gave an in-person pesticide safety training to staff on 3/14/23.

- **Best Wishes**

- Sara Sanders Surveillance VCT has accepted a position outside of the district, her last day was March 3, 2023.

General Manager's Report

Joel Buettner, General Manager

03/15/2023

STAFFING

- We welcome Casey Hubble, Tyler Stuhaan, and Elizabeth Slagboom to the Placer Mosquito team. Casey is joining the surveillance team as our Vector Biologist. Tyler and Elizabeth are also joining the surveillance team as Vector Control Technician I.

AMERICAN MOSQUITO CONTROL ASSOCIATION (AMCA)

- Staff attended the AMCA annual meeting in Reno last month. Presentations from Scott Schon and Meagan Luevano were well received.
- Our 2022 Applied Research intern, Esmeralda Mendoza received a \$250 honorable mention award from the Reeves Student Paper Competition.
- As chair of the Unmanned Aerial Systems (UAS) subcommittee, I submitted the attached UAS report to the AMCA board.
- I am currently working with Drone attorney Jonathan Rupprecht and the FAA to establish a special collaboration between the FAA innovation office and the AMCA to potentially establish nation-wide exemptions to conduct mosquito control drone missions.

Mosquito and Vector Control of California (MVCAC)

- We will be participating in MVCAC legislative days in Sacramento next week by meeting with our District's legislators and providing information about MVCAC and its legislative agenda.

UPCOMING EVENTS

- MVCAC Legislative Day and Spring Meeting – 3/21-22/2023 – Sacramento, CA
- AMCA Washington Day and Strategic Planning – 5/15-18/2023 – Washington D.C.

AMCA Legislative and Regulatory Committee
UAS subcommittee Report
Joel Buettner, UAS subcommittee Chair
February 9, 2023

The UAS subcommittee has not met in quite a while, however my goal is to re-establish regular communications moving forward. There are several priorities that affect the current and future use of UAS in mosquito control from regulatory, technological, and operational perspectives.

Remote ID

https://www.faa.gov/uas/getting_started/remote_id

This is the most pressing issue for agencies and their pilots who operate UAS regardless of what regulations (civil or public aircraft). **As of September 16, 2023, all drone pilots must meet the operating requirements of Part 89.** For most operators this will mean flying a Standard Remote ID Drone or equipping with a broadcast module.

For spray drones, the only models that have gained a declaration of compliance to operate as standard remote ID are the DJI T-30 and T-40 as of this writing. Drone manufacturers must apply to the FAA for a declaration of compliance specific drone models to be deemed standard remote ID compliant. The list of aircraft declaration of compliance can be found at <https://uasdoc.faa.gov/listDocs>

For UAS models that do not have an approved declaration of compliance, operators can comply by attaching a remote id broadcast module. The first broadcast module and associated app approved for use by the FAA is made by [DroneTag](#) and costs several hundred dollars. There may also be other brands approved now and in the near future. Pilots are responsible for ensuring that their aircraft is compliant with remote ID and any equipment attached does not compromise the safe operation and airworthiness of their aircraft.

UAS in Mosquito Control Guidelines Document

AMCA support of the development of a guidelines document for use of UAS in mosquito control has been discussed for some time. The Mosquito and Vector Control Association of California's (MVCAC) drone committee is currently working on parts of such a document which would tentatively include the following sections:

1. Introduction
2. UAS Mission Types that Support Integrated Mosquito Management
3. Relevant UAS Regulations
4. Best Practices for Operating UAS for Mosquito Control
5. Considerations For Starting a UAS Program
6. Mosquito UAS Mission Database

This manual will serve as a foundation for setting an industry standard for UAS use in mosquito control, and may be leveraged to gain mosquito control specific exemptions or other regulatory compliance for industry specific operations such as flying beyond visual line of sight, operating over 400', and gaining airspace authorization in difficult areas.

Regulatory Issues

Since several desirable UAS mission types have some regulatory hurdles to overcome, we are looking into collaborating with federal regulatory agencies to identify solutions to some of these hurdles. The main issues lie with either the FAA or the EPA related to pesticide label language for UAS applications.

FAA – related issues

- Spraying with a 55+lb UAS within 500 feet of structures, non-participating people, roads, or vehicles is prohibited when operating under Part 137 rules. Some exemptions have been granted to lessen this buffer to 100' if the pilot meets a certain number of flight hours, but without a complete waiver of this buffer requirement, the use of 55+lb UAS is severely limited in areas with bordering structures or roads.
- Beyond visual line of sight (BVLOS) operations is becoming more commonly granted as an exemption in many industries. For mosquito control being able to operate BVLOS more than "briefly" requires special authorization. As mosquito control operations become more complex and larger scale, BVLOS operations will become necessary. Currently only Standard RID UAS qualify for an exemption permitting BVLOS.
- Flying over residential areas to look for unmaintained swimming pools. Triggers several concerns such as: line of sight operations is difficult to maintain in developed areas, <400' altitude may create some privacy concerns based on existing case law, and flying over structures, roads, and non-participating people is generally prohibited.
- Spraying adulticides from a <55lb UAS may require brief operation near or over structures, roads, vehicles, and non-participating people. Aside from the pesticide label concerns, simply operating the UAS in the places and at the altitudes necessary for a safe and effective mosquito adulticide application is potentially problematic.

EPA-related issues

- Unmanned Aerial Adulticide Applications are generally allowed by the FAA as long as the application is authorized by the pesticide label ([Part 137.39](#)). Our understanding from the EPA is that unmanned applications are allowed if the application can comply with the approved aerial application label language and the registrant is in agreement that unmanned aerial application is consistent with the label.
- US EPA has stated that for UAS-specific pesticide label language to be approved, a pesticide risk assessment is required and has traditionally required the use of the AGDISP model. Unfortunately, the AGDISP model is not compatible with multi-rotor aircraft, and therefore is unable to be used to evaluate pesticide applications from multi-rotor unmanned aircraft.