

# Anastasia Mosquito Control District

of St. Johns County

[www.amcdsjc.org](http://www.amcdsjc.org)



District Board Meeting

**April 14, 2022**

Thursday at

**5:00 P.M**



**ANASTASIA MOSQUITO CONTROL DISTRICT  
ST. JOHNS COUNTY**

**PROPOSED AGENDA**

**Thursday, April 14, 2022  
5:00 P.M.**

**Invocation and Pledge:** *Commissioner*

**Consent Items: APPROVAL OF:**

1. Treasurer's Report
2. Vouchers (*Cancelled Checks*)
3. Chemical Inventory
4. Minutes: Regular Board Meeting, March 10, 2022 at 5:00 P.M.
5. September Board Meeting and Public Hearing Dates:
  - A. Regular Meeting, Thursday, September 15, 2022 at 5:00 P.M.
  - B. First Public Hearing, Thursday, September 15, 2022 at 5:30 P.M.
  - C. Final Public Hearing, Thursday, September 29, 2022 at 5:30 P.M.
6. 17<sup>th</sup> Annual Workshop Summary Report
7. MOU between AMCD and i2L company about sharing GLP study
8. Laboratory Manager job description
9. Budget Amendments (No Documents Attached)

**Unfinished Business:**

1. Discuss and review Commissioner's absence from Board meetings ~ *Mr. Flowers, Attorney (10 min)*
2. Helicopter insurance summary report ~ *Mr. Dana Smith (10 min)*
3. 2021 collaborative project report ~ *Dr. Whitney Qualls (10 min)*

**New Business:**

1. Discussion and approval of COL raise for FY 22/23 budget ~ *Mr. Scott Hanna (10 min)*
2. Budget Direction Discussion, Board's Input FY 22/23 ~ *Dr. Rui-De Xue (10 min)*

**Reports**

1. Director
2. Attorney

**Commissioner Comments:**

**Attachments:** FOR INFORMATION PURPOSES ONLY

1. None



# Consents

ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY

TREASURER'S REPORT

March 2022 Reconcile

Report for April 2022 Meeting

Cash Balances Ending:

3/31/22

Local Fund	\$	6,235,826.45	
S.B.A. Fund	\$	5,482,553.70	
Bank of America	\$	557,563.07	(E-Pay Account)
<b>Total Funds as of 03/31/22</b>	<b>\$</b>	<b>12,275,943.22</b>	

Source of Income Local/ SBA Fund:

3/31/22

Taxes	\$	90,717.21	(Gross, before Tax Collector's Commission)
Prior Year Tax Distrib.	\$	-	
SBA Fund- Return on Investment	\$	1,360.80	
Local Fund, Interest	\$	-	
Grant Money	\$	40,282.06	Dept. of Defense, UF-Smart Cage
Workshops	\$	5,555.57	
Salvage	\$	272.43	
<b>Total Deposits by 03/31/22</b>	<b>\$</b>	<b>138,188.07</b>	

CHEMICAL & INSECTICIDE INVENTORY

Report for April 2022 Meeting

Summary

VOUCHERS PRESENTED

Report for April 2022 Meeting

Local Fund      Several



**Anastasia Mosquito Control District**  
**VOUCHERS (Electronic Bill Pay & Canceled Checks)**  
**From 03/01/22 through 03/31/22**

Date	Num	Name	Memo	Clr	Amount	Balance
<b>110 · Wells Fargo Bank - Local</b>						6,920,313.03
<b>110-A · QuickBooks Bill Pay</b>						-8,924,378.32
Total 110-A · QuickBooks Bill Pay						-8,924,378.32
<b>110 · Wells Fargo Bank - Local - Other</b>						15,844,691.35
03/01/2022	Direct Dep	Michael Phillips	Coastal Helicopter (Panama city...	X	-83.84	15,844,607.51
03/01/2022	Direct Dep	Cathy Hendricks	Went with Michael Phillips to Co...	X	-21.00	15,844,586.51
03/01/2022	Direct Dep	Catherine Brandhorst	March 2022 Commissioner Sup...	X	-100.00	15,844,486.51
03/01/2022	Direct Dep	Panagiota Becker	March 2022 Commissioner Sup...	X	-100.00	15,844,386.51
03/01/2022	Direct Dep	Jeanne Moeller	March 2022 Commissioner Sup...	X	-100.00	15,844,286.51
03/01/2022	Direct Dep	Gina LeBlanc	March 2022 Commissioner Sup...	X	-100.00	15,844,186.51
03/01/2022	Direct Dep	Gayle Gardner	March 2022 Commissioner Sup...	X	-100.00	15,844,086.51
03/03/2022	9-#426	Payroll	Taxes Withheld	X	-17,662.83	15,826,423.68
03/03/2022	9-#426	Payroll	Bank Account, Other	X	-2,915.52	15,823,508.16
03/03/2022	9-#426	Payroll	Credit Union	X	-725.00	15,822,783.16
03/03/2022	9-#426	Payroll	Net Pay to Bank	X	-49,948.88	15,772,834.28
03/07/2022	9-#418	Dennis Hollingsworth	Distrib. #8 YE 2022	X	88,902.87	15,861,737.15
03/08/2022	9-#419	Workshop reimb	MGK, Caleb Corona	X	144.27	15,861,881.42
03/08/2022	8140	Compass Group Inc.	Work done by February	X	-216,463.11	15,645,418.31
03/08/2022	8141	Williams J. Youker	Invoice #2021-001	X	-2,575.00	15,642,843.31
03/08/2022	8142	World Electric Supply, Inc.	Invoice #SO46504253.002	X	-3,300.00	15,639,543.31
03/08/2022	9-#421	Catherine Brandhorst	Restoring VOID #8123 to Bank	X	357.40	15,639,900.71
03/08/2022	8143	Nationwide Retirement S...	Entity Code#0037184-001	X	-1,025.00	15,638,875.71
03/08/2022	WIRE	Micrarium Enterprises Ltd	Invoice #2022611	X	-3,265.00	15,635,610.71
03/09/2022	Direct Dep	Catherine Brandhorst	01/06/2022 Paycheck	X	-357.40	15,635,253.31
03/09/2022		Catherine Brandhorst	Taxes Withheld	X	-25.68	15,635,227.63
03/09/2022		Catherine Brandhorst	Bank Account, Other	X	0.00	15,635,227.63
03/09/2022		Catherine Brandhorst	Credit Union	X	0.00	15,635,227.63
03/09/2022		Catherine Brandhorst	Net Pay to Bank	X	-150.00	15,635,077.63
03/09/2022	Direct Dep	AMCD Conf. Reimb.	AMCA, Annual Conf. Parking R...	X	-835.12	15,634,242.51
03/09/2022	Direct Dep	Michael Phillips	Lunch Per Diem, Trip to Costal ...	X	-29.00	15,634,213.51
03/09/2022	Direct Dep	Cathy Hendricks	Lunch Per Diem, Trip to Costal ...	X	-29.00	15,634,184.51
03/09/2022	Direct Dep	Dana Smith	9Volt Batteries for Dynavibe	X	-26.60	15,634,157.91
03/10/2022	9-#419	Workshop reimb	Clarke Mosquito, Cherrief Jackson	X	288.54	15,634,446.45
03/10/2022	9-#419	Workshop reimb	Voulusia County Mosquito, 6 @ ...	X	286.56	15,634,733.01
03/10/2022	Direct Dep	AMCD Conf. Reimb.	AMCA, Annual Conf. Parking R...	X	-174.79	15,634,558.22
03/11/2022		wells Fargo	Bank Fees March '22	X	-225.88	15,634,332.34
03/11/2022	Direct Dep	Madeline R. Steck	AMCD Conf. Reimb. Parking	X	-80.00	15,634,252.34
03/11/2022	ACH Debit	Paypal	G-Mail additional Space	X	-1.99	15,634,250.35
03/14/2022	Direct Dep	Gunter Muller	Reimbursement for Dr. Muller Ai...	X	-3,569.63	15,630,680.72
03/14/2022	9-#420R	Gunter Muller	ACH Payment was returned due...	X	3,569.63	15,634,250.35
03/15/2022	8144	Festhaus	Heat Map EDU Center		-2,250.00	15,632,000.35
03/15/2022	8145	Stan Weaver & Company	4624		-250.00	15,631,750.35
03/15/2022	8146	Nationwide Retirement S...	Entity Code#0037184-001		-1,025.00	15,630,725.35
03/17/2022	9-#422	Payroll	Taxes Withheld	X	-17,029.83	15,613,695.52
03/17/2022	9-#422	Payroll	Bank Account, Other	X	-2,915.52	15,610,780.00
03/17/2022	9-#422	Payroll	Credit Union	X	-725.00	15,610,055.00
03/17/2022	9-#422	Payroll	Net Pay to Bank	X	-47,979.14	15,562,075.86
03/17/2022	9-#419	Workshop reimb	University of Central FL, Willenb...	X	1,103.93	15,563,179.79
03/17/2022	Phone Pay	Bank of America	4356 2200 0207 4579	X	-11,988.34	15,551,191.45
03/17/2022	8147	Clyde Mizell, Inc.	Chickens		-1,620.00	15,549,571.45
03/22/2022	9-#419	Workshop reimb	Brevard County, Julie Black	X	672.11	15,550,243.56
03/23/2022	8148	Stan Weaver & Company	VOID: 4624	X	0.00	15,550,243.56
03/23/2022	8149	Stan Weaver & Company	4624		-935.00	15,549,308.56
03/23/2022	9-#476R	Defense Dept	Grant Money 02/01/22 thru 2/28/...	X	28,007.87	15,577,316.43
03/23/2022	WIRE	Bank of America	For Bill Pay	X	-350,000.00	15,227,316.43
03/23/2022	Direct Dep	Whitney Qualls	AMCD Conf. Reimb. Parking	X	-60.00	15,227,256.43
03/24/2022	9-#419	Workshop reimb	UFL, Derrick Mathias	X	576.59	15,227,833.02
03/24/2022	Direct Dep	Scott Lunsford	Aerial Training	X	-7,000.00	15,220,833.02
03/24/2022	9-#420	MISC.	Surplus Sales, Workshop, IRS ...	X	633.52	15,221,466.54
03/25/2022	WIRE	Gunter Muller	WIRE Pmt. Reimbursement for ...	X	-3,569.63	15,217,896.91
03/25/2022	Direct Dep	Lea Bangonan	AMCD Conf. Reimb. Parking	X	-411.37	15,217,485.54
03/28/2022	9-#419	Workshop reimb	Brevard County, Julie Black	X	143.28	15,217,628.82
03/28/2022	8150	Nationwide Retirement S...	Entity Code#0037184-001		-1,025.00	15,216,603.82
03/29/2022	8151	World Electric Supply, Inc.	EDU Center		-455.75	15,216,148.07
03/29/2022	9-#419	Workshop reimb	Univ. of South Carolina, Kyndall ...	X	240.29	15,216,388.36
03/30/2022	9-#419	Workshop reimb	Check, Lee County MCD, Vario...	X	1,913.29	15,218,301.65
03/30/2022	9-#425R	SmartCage-UF	Grant Money 02/01/22 thru 2/28/...	X	12,274.19	15,230,575.84
03/31/2022	9-#420	Payroll	Taxes Withheld	X	-17,448.23	15,213,127.61
03/31/2022	9-#420	Payroll	Bank Account, Other	X	-2,915.52	15,210,212.09

**Anastasia Mosquito Control District**  
**VOUCHERS (Electronic Bill Pay & Canceled Checks)**  
From 03/01/22 through 03/31/22

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Clr</u>	<u>Amount</u>	<u>Balance</u>
03/31/2022	9-#420	Payroll	Credit Union	X	-725.00	15,209,487.09
03/31/2022	9-#420	Payroll	Net Pay to Bank	X	-49,282.32	15,160,204.77
Total 110 · Wells Fargo Bank - Local - Other					-684,486.58	15,160,204.77
Total 110 · Wells Fargo Bank - Local					-684,486.58	6,235,826.45
<b>TOTAL</b>					<b>-684,486.58</b>	<b>6,235,826.45</b>



**Anastasia Mosquito Control District**  
**Reconciliation Summary**  
**110 · Wells Fargo Bank - Local, Period Ending 03/31/2022**

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	<u>Mar 31, 22</u>
<b>Beginning Balance</b>	6,927,667.43
<b>Cleared Transactions</b>	
Checks and Payments - 45 items	-823,394.57
Deposits and Credits - 20 items	139,114.34
<b>Total Cleared Transactions</b>	<u>-684,280.23</u>
<b>Cleared Balance</b>	<u><u>6,243,387.20</u></u>
<b>Uncleared Transactions</b>	
Checks and Payments - 7 items	-7,560.75
<b>Total Uncleared Transactions</b>	<u>-7,560.75</u>
<b>Register Balance as of 03/31/2022</b>	<u><u>6,235,826.45</u></u>
<b>New Transactions</b>	
Checks and Payments - 3 items	-237,782.73
<b>Total New Transactions</b>	<u>-237,782.73</u>
<b>Ending Balance</b>	<u><u>5,998,043.72</u></u>

**Anastasia Mosquito Control District**  
**Reconciliation Detail**  
**110 - Wells Fargo Bank - Local, Period Ending 03/31/2022**

Type	Date	Num	Name	Clr	Amount	Balance
<b>Beginning Balance</b>						6,927,667.43
<b>Cleared Transactions</b>						
<b>Checks and Payments - 45 items</b>						
General Journal	01/06/2022	9-#420	Catherine Brandhorst	X	-357.40	-357.40
Bill Pmt -Check	02/17/2022	8139	Rays Tire & Srvc Ctr...	X	-5,972.00	-6,329.40
Bill Pmt -Check	02/17/2022	8138	Nationwide Retirem...	X	-1,025.00	-7,354.40
General Journal	03/01/2022	Direct ...	Catherine Brandhorst	X	-100.00	-7,454.40
General Journal	03/01/2022	Direct ...	Panagiota Becker	X	-100.00	-7,554.40
General Journal	03/01/2022	Direct ...	Jeanne Moeller	X	-100.00	-7,654.40
General Journal	03/01/2022	Direct ...	Gina LeBlanc	X	-100.00	-7,754.40
General Journal	03/01/2022	Direct ...	Gayle Gardner	X	-100.00	-7,854.40
Bill Pmt -Check	03/01/2022	Direct ...	Michael Phillips	X	-83.84	-7,938.24
Bill Pmt -Check	03/01/2022	Direct ...	Cathy Hendricks	X	-21.00	-7,959.24
General Journal	03/03/2022	9-#426	Payroll	X	-49,948.88	-57,908.12
General Journal	03/03/2022	9-#426	Payroll	X	-17,662.83	-75,570.95
General Journal	03/03/2022	9-#426	Payroll	X	-2,915.52	-78,486.47
General Journal	03/03/2022	9-#426	Payroll	X	-725.00	-79,211.47
Bill Pmt -Check	03/08/2022	8140	Compass Group Inc.	X	-216,463.11	-295,674.58
Bill Pmt -Check	03/08/2022	8142	World Electric Suppl...	X	-3,300.00	-298,974.58
Bill Pmt -Check	03/08/2022	WIRE	Micrarium Enterpris...	X	-3,265.00	-302,239.58
Bill Pmt -Check	03/08/2022	8141	Williams J. Youker	X	-2,575.00	-304,814.58
Bill Pmt -Check	03/08/2022	8143	Nationwide Retirem...	X	-1,025.00	-305,839.58
General Journal	03/09/2022	Direct ...	AMCD Conf. Reimb.	X	-835.12	-306,674.70
Bill Pmt -Check	03/09/2022	Direct ...	Catherine Brandhorst	X	-357.40	-307,032.10
General Journal	03/09/2022		Catherine Brandhorst	X	-150.00	-307,182.10
General Journal	03/09/2022	Direct ...	Michael Phillips	X	-29.00	-307,211.10
General Journal	03/09/2022	Direct ...	Cathy Hendricks	X	-29.00	-307,240.10
General Journal	03/09/2022	Direct ...	Dana Smith	X	-26.60	-307,266.70
General Journal	03/09/2022		Catherine Brandhorst	X	-25.68	-307,292.38
General Journal	03/10/2022	Direct ...	AMCD Conf. Reimb.	X	-174.79	-307,467.17
Check	03/11/2022		wells Fargo	X	-225.88	-307,693.05
General Journal	03/11/2022	Direct ...	Madeline R. Steck	X	-80.00	-307,773.05
Bill Pmt -Check	03/11/2022	ACH ...	Paypal	X	-1.99	-307,775.04
Bill Pmt -Check	03/14/2022	Direct ...	Gunter Muller	X	-3,569.63	-311,344.67
General Journal	03/17/2022	9-#422	Payroll	X	-47,979.14	-359,323.81
General Journal	03/17/2022	9-#422	Payroll	X	-17,029.83	-376,353.64
Bill Pmt -Check	03/17/2022	Phone...	Bank of America	X	-11,988.34	-388,341.98
General Journal	03/17/2022	9-#422	Payroll	X	-2,915.52	-391,257.50
General Journal	03/17/2022	9-#422	Payroll	X	-725.00	-391,982.50
Check	03/23/2022	WIRE	Bank of America	X	-350,000.00	-741,982.50
General Journal	03/23/2022	Direct ...	Whitney Qualls	X	-60.00	-742,042.50
Bill Pmt -Check	03/24/2022	Direct ...	Scott Lunsford	X	-7,000.00	-749,042.50
Bill Pmt -Check	03/25/2022	WIRE	Gunter Muller	X	-3,569.63	-752,612.13
General Journal	03/25/2022	Direct ...	Lea Bangonan	X	-411.37	-753,023.50
General Journal	03/31/2022	9-#420	Payroll	X	-49,282.32	-802,305.82
General Journal	03/31/2022	9-#420	Payroll	X	-17,448.23	-819,754.05
General Journal	03/31/2022	9-#420	Payroll	X	-2,915.52	-822,669.57
General Journal	03/31/2022	9-#420	Payroll	X	-725.00	-823,394.57
<b>Total Checks and Payments</b>					<b>-823,394.57</b>	<b>-823,394.57</b>
<b>Deposits and Credits - 20 items</b>						
Bill Pmt -Check	01/06/2022	8123	Catherine Brandhorst	X		
General Journal	03/07/2022	9-#418	Dennis Hollingsworth	X	88,902.87	88,902.87
General Journal	03/08/2022	9-#419	Workshop reimb	X	144.27	89,047.14
General Journal	03/08/2022	9-#421	Catherine Brandhorst	X	357.40	89,404.54
General Journal	03/09/2022		Catherine Brandhorst	X		89,404.54
General Journal	03/09/2022		Catherine Brandhorst	X		89,404.54
General Journal	03/10/2022	9-#419	Workshop reimb	X	286.56	89,691.10
General Journal	03/10/2022	9-#419	Workshop reimb	X	288.54	89,979.64
General Journal	03/14/2022	9-#420R	Gunter Muller	X	3,569.63	93,549.27
General Journal	03/17/2022	9-#419	Workshop reimb	X	1,103.93	94,653.20
General Journal	03/22/2022	9-#419	Workshop reimb	X	672.11	95,325.31
Bill Pmt -Check	03/23/2022	8148	Stan Weaver & Com...	X		95,325.31
General Journal	03/23/2022	9-#476R	Defense Dept	X	28,007.87	123,333.18
General Journal	03/24/2022	9-#419	Workshop reimb	X	576.59	123,909.77
General Journal	03/24/2022	9-#420		X	633.52	124,543.29
General Journal	03/28/2022	9-#419	Workshop reimb	X	143.28	124,686.57
General Journal	03/29/2022	9-#419	Workshop reimb	X	240.29	124,926.86
General Journal	03/30/2022	9-#419	Workshop reimb	X	1,913.29	126,840.15
General Journal	03/30/2022	9-#425R	SmartCage-UF	X	12,274.19	139,114.34
Bill Pmt -Check	04/04/2022	8152	Compass Group Inc.	X		139,114.34



Type	Date	Num	Name	Clr	Amount	Balance
Total Deposits and Credits					139,114.34	139,114.34
Total Cleared Transactions					-684,280.23	-684,280.23
Cleared Balance					-684,280.23	6,243,387.20
<b>Uncleared Transactions</b>						
<b>Checks and Payments - 7 items</b>						
Bill Pmt -Check	03/15/2022	8144	Festhaus		-2,250.00	-2,250.00
Bill Pmt -Check	03/15/2022	8146	Nationwide Retirem...		-1,025.00	-3,275.00
Bill Pmt -Check	03/15/2022	8145	Stan Weaver & Com...		-250.00	-3,525.00
Bill Pmt -Check	03/17/2022	8147	Clyde Mizell, Inc.		-1,620.00	-5,145.00
Bill Pmt -Check	03/23/2022	8149	Stan Weaver & Com...		-935.00	-6,080.00
Bill Pmt -Check	03/28/2022	8150	Nationwide Retirem...		-1,025.00	-7,105.00
Bill Pmt -Check	03/29/2022	8151	World Electric Suppl...		-455.75	-7,560.75
Total Checks and Payments					-7,560.75	-7,560.75
Total Uncleared Transactions					-7,560.75	-7,560.75
Register Balance as of 03/31/2022					-691,840.98	6,235,826.45
<b>New Transactions</b>						
<b>Checks and Payments - 3 items</b>						
Bill Pmt -Check	04/01/2022	Direct ...	New Mountain Innov...		-8,000.00	-8,000.00
Bill Pmt -Check	04/04/2022	8154	Compass Group Inc.		-226,832.73	-234,832.73
Bill Pmt -Check	04/04/2022	8153	Creative Graphic De...		-2,950.00	-237,782.73
Total Checks and Payments					-237,782.73	-237,782.73
Total New Transactions					-237,782.73	-237,782.73
<b>Ending Balance</b>					<b>-929,623.71</b>	<b>5,998,043.72</b>

**Anastasia Mosquito Control District**  
**Reconciliation Summary**  
115 · SBA, Period Ending 03/31/2022

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	<u>Mar 31, 22</u>
Beginning Balance	5,481,192.90
Cleared Transactions	
Deposits and Credits - 1 item	<u>1,360.80</u>
Total Cleared Transactions	<u>1,360.80</u>
Cleared Balance	<u><b>5,482,553.70</b></u>
Register Balance as of 03/31/2022	5,482,553.70
Ending Balance	5,482,553.70



**Anastasia Mosquito Control District**  
**Reconciliation Detail**  
115 · SBA, Period Ending 03/31/2022

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Type	Date	Num	Name	Clr	Amount	Balance
Beginning Balance						5,481,192.90
Cleared Transactions						
Deposits and Credits - 1 item						
Deposit	03/31/2022			X	1,360.80	1,360.80
Total Deposits and Credits					1,360.80	1,360.80
Total Cleared Transactions					1,360.80	1,360.80
Cleared Balance					1,360.80	5,482,553.70
Register Balance as of 03/31/2022					1,360.80	5,482,553.70
<b>Ending Balance</b>					<b>1,360.80</b>	<b>5,482,553.70</b>

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**State Board of Administration  
Local Government Surplus Funds Trust Fund  
Participant Statement**

**AGENCY ACCOUNT 101071**  
03/01/2022 - 03/31/2022

ANASTASIA MOSQUITO CONTROL DIS  
OF ST JOHNS COUNTY  
120 EOC DRIVE  
ST. AUGUSTINE, FL 32092

Participant Return 03/31/2022 : 0.29 %

<u>Date</u>	<u>Transaction Type</u>	<u>Description</u>	<u>Amount</u>	<u>Balance</u>
03/01/2022	BEGINNING BALANCE			5,481,192.90
03/31/2022	EARNED INCOME	INTEREST	1,360.80	5,482,553.70
	Totals:		<u>1,360.80</u>	<u>5,482,553.70</u>



2:51 PM

04/04/22

**Anastasia Mosquito Control District**  
**Reconciliation Summary**  
112 · Bank of America, Period Ending 03/31/2022

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	<u>Mar 31, 22</u>
Beginning Balance	319,370.79
Cleared Transactions	
Checks and Payments - 40 items	-112,070.15
Deposits and Credits - 3 items	350,262.43
Total Cleared Transactions	<u>238,192.28</u>
Cleared Balance	<u><u>557,563.07</u></u>
Register Balance as of 03/31/2022	557,563.07
New Transactions	
Checks and Payments - 7 items	-5,460.70
Total New Transactions	<u>-5,460.70</u>
Ending Balance	<u><u>552,102.37</u></u>

**Anastasia Mosquito Control District**  
**Reconciliation Detail**  
**112 · Bank of America, Period Ending 03/31/2022**

Type	Date	Num	Name	Clr	Amount	Balance
<b>Beginning Balance</b>						319,370.79
<b>Cleared Transactions</b>						
<b>Checks and Payments - 40 items</b>						
Bill Pmt -Check	03/03/2022	E-Pay	Preferred Governme...	X	-9,001.00	-9,001.00
Bill Pmt -Check	03/03/2022	E-Pay	Lewis Longman & ...	X	-1,250.00	-10,251.00
Bill Pmt -Check	03/03/2022	E-Pay	St. Johns County Uti...	X	-345.24	-10,596.24
Bill Pmt -Check	03/03/2022	E-Pay	WM Waste Manage...	X	-194.27	-10,790.51
Bill Pmt -Check	03/03/2022	E-Pay	Augustine Alarm, Fir...	X	-162.97	-10,953.48
Bill Pmt -Check	03/03/2022	E-Pay	Walmart Community	X	-107.12	-11,060.60
Bill Pmt -Check	03/03/2022	E-Pay	Legal Shield	X	-57.80	-11,118.40
Bill Pmt -Check	03/03/2022	E-Pay	COPYFAX	X	-56.86	-11,175.26
Bill Pmt -Check	03/03/2022	E-Pay	Florida Pest Control	X	-53.50	-11,228.76
Bill Pmt -Check	03/08/2022	E-Pay	Florida Mosquito Co...	X	-7,500.00	-18,728.76
Bill Pmt -Check	03/08/2022	E-Pay	A3 Communications...	X	-1,700.00	-20,428.76
Bill Pmt -Check	03/08/2022	E-Pay	Coast to Coast Com...	X	-357.42	-20,786.18
Bill Pmt -Check	03/08/2022	E-Pay	Ring Power Corpora...	X	-318.41	-21,104.59
Bill Pmt -Check	03/08/2022	E-Pay	Pitney Bowes	X	-287.40	-21,391.99
Bill Pmt -Check	03/15/2022	E-Pay	L.V. Hiers, Inc.	X	-9,331.75	-30,723.74
Bill Pmt -Check	03/15/2022	E-Pay	Mosquito Mate	X	-2,372.68	-33,096.42
Bill Pmt -Check	03/15/2022	E-Pay	American Crossroad...	X	-2,337.74	-35,434.16
Bill Pmt -Check	03/15/2022	E-Pay	FPL - EOC DR-Main...	X	-1,787.44	-37,221.60
Bill Pmt -Check	03/15/2022	E-Pay	Lewis Longman & ...	X	-1,730.00	-38,951.60
Bill Pmt -Check	03/15/2022	E-Pay	The Home Depot	X	-1,393.12	-40,344.72
Bill Pmt -Check	03/15/2022	E-Pay	FPL - EOC DR - Re...	X	-938.45	-41,283.17
Bill Pmt -Check	03/15/2022	E-Pay	Dirt Cheap, Inc.	X	-700.00	-41,983.17
Bill Pmt -Check	03/15/2022	E-Pay	CINTAS- 120 EOC- ...	X	-395.24	-42,378.41
Bill Pmt -Check	03/15/2022	E-Pay	Guardian Fueling Te...	X	-233.75	-42,612.16
Bill Pmt -Check	03/15/2022	E-Pay	The St. Augustine R...	X	-161.55	-42,773.71
Bill Pmt -Check	03/15/2022	E-Pay	AFLAC	X	-52.08	-42,825.79
Bill Pmt -Check	03/17/2022	E-Pay	COMCAST TV-Inter...	X	-584.79	-43,410.58
Bill Pmt -Check	03/17/2022	E-Pay	St. Johns County So...	X	-62.85	-43,473.43
Bill Pmt -Check	03/17/2022	E-Pay	Florida Pest Control	X	-53.50	-43,526.93
Bill Pmt -Check	03/17/2022	E-Pay	Village Key & Alarm,...	X	-4.00	-43,530.93
Bill Pmt -Check	03/21/2022	E-Pay	Blue Cross Blue Shi...	X	-43,001.41	-86,532.34
Bill Pmt -Check	03/21/2022	E-Pay	St. Johns County Pr...	X	-21,433.86	-107,966.20
Bill Pmt -Check	03/21/2022	E-Pay	United Concordia	X	-2,130.36	-110,096.56
Check	03/21/2022		Bank of America	X	-405.20	-110,501.76
Bill Pmt -Check	03/21/2022	E-Pay	UHS Premium Billing	X	-248.90	-110,750.66
Bill Pmt -Check	03/21/2022	E-Pay	Turner Ace Hardwar...	X	-110.98	-110,861.64
Bill Pmt -Check	03/21/2022	E-Pay	Staples Credit Plan	X	-95.77	-110,957.41
Bill Pmt -Check	03/25/2022	E-Pay	Ann Simpson	X	-600.00	-111,557.41
Bill Pmt -Check	03/25/2022	E-Pay	Guardian	X	-392.33	-111,949.74
Bill Pmt -Check	03/25/2022	E-Pay	COPYFAX	X	-120.41	-112,070.15
<b>Total Checks and Payments</b>					<b>-112,070.15</b>	<b>-112,070.15</b>
<b>Deposits and Credits - 3 items</b>						
General Journal	03/14/2022	9-#421		X	159.30	159.30
General Journal	03/21/2022	9-#421		X	103.13	262.43
Check	03/23/2022	WIRE	Bank of America	X	350,000.00	350,262.43
<b>Total Deposits and Credits</b>					<b>350,262.43</b>	<b>350,262.43</b>
<b>Total Cleared Transactions</b>					<b>238,192.28</b>	<b>238,192.28</b>
<b>Cleared Balance</b>					<b>238,192.28</b>	<b>557,563.07</b>
<b>Register Balance as of 03/31/2022</b>					<b>238,192.28</b>	<b>557,563.07</b>
<b>New Transactions</b>						
<b>Checks and Payments - 7 items</b>						
Bill Pmt -Check	04/01/2022	E-Pay	Leading Edge Aerial...		-2,080.00	-2,080.00
Bill Pmt -Check	04/01/2022	E-Pay	St. Johns County Uti...		-339.67	-2,419.67
Bill Pmt -Check	04/01/2022	E-Pay	Florida Janitor & Pa...		-335.42	-2,755.09
Bill Pmt -Check	04/01/2022	E-Pay	WM Waste Manage...		-194.27	-2,949.36
Bill Pmt -Check	04/01/2022	E-Pay	Legal Shield		-57.80	-3,007.16
Bill Pmt -Check	04/01/2022	E-Pay	Hagan Ace Mgmt. C...		-15.96	-3,023.12
Bill Pmt -Check	04/04/2022	E-Pay	Michael Turell		-2,437.58	-5,460.70
<b>Total Checks and Payments</b>					<b>-5,460.70</b>	<b>-5,460.70</b>
<b>Total New Transactions</b>					<b>-5,460.70</b>	<b>-5,460.70</b>
<b>Ending Balance</b>					<b>232,731.58</b>	<b>552,102.37</b>



P.O. Box 15284  
Wilmington, DE 19850

### Customer service information

📞 Customer service: 1.888.400.9009

🌐 bankofamerica.com

✉ Bank of America, N.A.  
P.O. Box 25118  
Tampa, Florida 33622-5118

ANASTASIA MOSQUITO CONTROL DISTRICT OF  
ST. JOHNS COUNTY  
LOCAL GOVERNMENT  
120 EOC DR  
ST AUGUSTINE, FL 32092-0927

## Your Full Analysis Business Checking

for March 1, 2022 to March 31, 2022

Account number: 8981 0275 2170

**ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY LOCAL GOVERNMENT**

### Account summary

Beginning balance on March 1, 2022	\$319,370.79
Deposits and other credits	350,262.43
Withdrawals and other debits	-111,664.95
Checks	-0.00
Service fees	-405.20

**Ending balance on March 31, 2022** **\$557,563.07**

# of deposits/credits: 3

# of withdrawals/debits: 40

# of days in cycle: 31

Average ledger balance: \$366,389.72





**ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY**  
**CHEMICAL & FUEL INVENTORY**  
 MONTH OF FEBRUARY 2022

**DISTRICT TOTALS**

CHEMICAL DESCRIPTION (indicate lbs., gals. or ea.)	BEGINNING PHYSICAL COUNT	AMOUNT PURCHASED	TRANSFER IN	TRANSFER OUT	AMOUNT AVAILABLE	AMOUNT USED	ENDING "BOOK" BALANCE	PHYSICAL COUNT	OVER / (UNDER)
ALTIOSID WSP EA.	58,122.00				58,122.00	22.00	58,100.00	58,100.00	0.00
ALTIOSID XR LBS.	2,382.00				2,382.00	0.00	2,382.00	2,382.00	0.00
ALTIOSID XRG LBS.	41,840.00				41,840.00	80.00	41,760.00	41,760.00	0.00
AQUABAC XT GALS.	130.00	450.00			580.00	0.00	580.00	580.00	0.00
AQUALUER 20-20 GALS.	194.30				194.30	0.00	194.30	194.30	0.00
B. t. i. DUNKS (Doughnuts) EA.	838.00				838.00	0.00	838.00	838.00	0.00
COCO BEAR GALS.	51.72				51.72	0.25	51.47	51.47	0.00
DUET GALS.	516.02				516.02	0.00	516.02	516.02	0.00
MOSQUITOMIST TWO GALS.	358.50				358.50	0.00	358.50	358.50	0.00
NALED GALS.	1,270.00				1,270.00	0.00	1,270.00	1,270.00	0.00
NATULAR DT EA.	10,009.00				10,009.00	0.00	10,009.00	10,009.00	0.00
STRIKE PELLETS LBS.	44.00				44.00	0.00	44.00	44.00	0.00
SUSTAIN MBG LBS.	4,480.00				4,480.00	80.00	4,400.00	4,400.00	0.00
TALSTAR P GALS.	45.36				45.36	0.88	44.48	44.46	-0.02
VECTOBAC 12AS GALS.	54.75				54.75	1.75	53.00	53.00	0.00
GASOLINE GALS.	3,124.00				3,124.00	488.37	2,635.63	2,656.00	20.37
JET A GALS.	3,598.00				3,598.00	138.83	3,459.17	3,544.00	84.83
<b>TOTALS</b>	<b>127,057.65</b>	<b>450.00</b>	<b>0.00</b>	<b>0.00</b>	<b>127,507.65</b>	<b>812.08</b>	<b>126,695.57</b>	<b>126,800.75</b>	<b>105.18</b>

PREPARED BY: [Signature]  
 REVIEWED BY: [Signature]  
 REVIEWED BY: [Signature]


DATE: 3/7/2022  
 DATE: 3/17/22  
 DATE: 3/23/22

<b>BASE=</b>	126,800.75
Total	126,800.75



ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY  
 CHEMICAL & FUEL INVENTORY  
 VALUE  
 MONTH OF FEBRUARY 2022

CHEMICAL DESCRIPTION (indicate lbs., gals. or ea.)	PHYSICAL COUNT	ACTUAL COST PER LB/GAL/EA	TOTAL INVENTORY VALUE	INVOICE DATE	PURCHASED FROM
ALTOSID WSP	EA. 34,100.00	\$0.8600	\$29,326.00	10/30/20	VESERIS
ALTOSID WSP	EA. 24,000.00	\$0.8800	\$21,120.00	12/16/21	VESERIS
ALTOSID XR	LBS. 1,502.00	\$3.42	\$5,136.39	10/30/20	VESERIS
ALTOSID XR	LBS. 880.00	\$3.45	\$3,036.00	12/16/21	VESERIS
ALTOSID XRG	LBS. 25,760.00	\$8.9500	\$230,552.00	10/30/20	VESERIS
ALTOSID XRG	LBS. 16,000.00	\$11.5000	\$184,000.00	12/16/21	VESERIS
AQUABAC XT	GALS. 130.00	\$35.0000	\$4,550.00	12/7/21	VESERIS
AQUABAC XT	GALS. 450.00	\$35.0000	\$15,750.00	1/31/22	VESERIS
AQUALUER 20-20	GALS. 194.30	\$121.5400	\$23,615.22	5/10/21	ALLPRO
B. t. i. DUNKS (Doughnuts)	EA. 838.00	\$0.9830	\$823.75	5/5/21	TARGET
COCO BEAR	GALS. 51.47	\$20.4800	\$1,054.11	7/16/18	CLARKE
DUET	GALS. 516.02	\$214.7300	\$110,804.97	8/24/21	CLARKE
MOSQUITOMIST TWO	GALS. 358.50	\$73.3400	\$26,292.39	11/17/20	CLARKE
NALED	GALS. 880.00	\$214.7300	\$188,962.40	8/24/21	CLARKE
NALED	GALS. 390.00	\$2.0000	\$780.00	10/19/21	Osceola Co.
NATULAR DT	EA. 10,009.00	\$0.4168	\$4,171.75	9/9/16	CLARKE
STRIKE PELLETS	LBS. 44.00	\$184.1500	\$8,102.60	5/10/10	ADAPCO
SUSTAIN MBG	LBS. 4,400.00	\$7.1000	\$31,240.00	8/30/21	ALLPRO
TALSTAR P	GALS. 44.46	\$54.9050	\$2,441.08	9/16/20	TARGET
VECTOBAC 12AS	GALS. 53.00	\$32.5000	\$1,722.50	3/4/21	ADAPCO
GASOLINE	GALS. 0.00	\$2.8342	\$0.00	9/13/21	L. V. HIERS
GASOLINE	GALS. 2,656.00	\$2.8157	\$7,478.50	12/1/21	L. V. HIERS
JET A	GALS. 3,544.00	\$2.5164	\$8,918.12	8/19/21	Avfuel
<b>TOTAL</b>	<b>126,800.75</b>	<b>\$1,032.36</b>	<b>\$909,877.78</b>		

PREPARED BY:  Wears DATE: 3/7/2022

COST FIGURES REVIEWED BY:  DATE: 3/7/22

REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_





Corporate Office  
10800 Pecan Park Blvd., Suite 300  
Austin, TX 78750

INVOICE		REMITTANCE	
ACH/EFT		CHECK	
Account Name: ES OPCO USA LLC		ES OPCO USA LLC	
Account #: 334037180288		PO Box 7410137	
ACH ABA Routing #: 061000052		Chicago, IL 60674-0137	



Please send ACH/EFT payment remittances to: [payments@veseris.com](mailto:payments@veseris.com)

RETURN SERVICE REQUESTED

1342000046 PRESORT PBPS001 <>



ANASTASIA MOSQUITO DIST  
120 EOC DR  
SAINT AUGUSTINE FL 32092-0927

CUSTOMER NO.	400947	TERMS	NET30
INVOICE NO.	IN-0380126	DUE DATE	03/02/2022
INVOICE DATE	01/31/22	INVOICE AMOUNT	\$15,750.00 (USD)

SHIP TO TAX EXEMPT NUMBER  
ANASTASIA MOSQUITO DIS  
120 Eoc Dr  
Saint Augustine, FL 32092-0927

VESERIS  
PO BOX 7410137  
CHICAGO, IL 60674-0137

PLEASE DETACH HERE AND RETURN TOP PORTION WITH YOUR PAYMENT

INVOICE NO. IN-0380126	INVOICE DATE 01/31/22	ORDER NO. SO-100-0325160	CUSTOMER PO 12821-kay	FREIGHT TERMS PP-DE
SHIP DATE	SALES REP Joseph Manna	ENTERED BY Nicole Hegeman	WAREHOUSE LOC OR-ORLANDO	SHIP METHOD VWR5-VWR5

Buyer agrees that all orders or purchases are subject to Vesperis' Standard Terms and Conditions of Sale as of the date of shipment available at <https://veseris.com/sales-terms/>. All sales and orders are expressly limited to such terms, which may be updated from time to time. No other terms and conditions apply to any sales order unless agreed to in writing by both parties.

Vesperis' Policy Notice is posted on <https://veseris.com/privacy-policy/>  
To access invoice copies, access your account on <https://veseris.osgview.com/>

Enrollment Token: PK7XD8QF

PRODUCT DESCRIPTION	TAX	QUANTITY ORDERED	QUANTITY SHIPPED/ B.O.	PRICE PER UNIT	EXTENDED AMOUNT
809513 AQUABAC XT 2X2.5GL/CS BECKER MATL		180	180	\$87.50	\$15,750.00
JG NA 62637-1			0		
				Discount: 0.00%	

MERCHANDISE TOTAL \$15,750.00

SUBTOTAL \$15,750.00  
OTHER CHARGES \$0.00  
INVOICE TOTAL \$15,750.00

Other Charges may include state mandated mill tax.

Total Due \$15,750.00 (USD)

450  
\$35.00 gallon

RECEIVED  
FEB 07 2022

By: \_\_\_\_\_

ES OpCo USA, LLC  
 10800 Pecan Park Blvd Ste 300  
 Austin, TX 78750-1477  
 USA



Telephone  
 Tax registration number 84-3689531

### Sales Order Shipping Confirmation

Page 1 of 1  
 Shipment confirmation number SPS-401587.1  
 PO# 12821-kay  
 Order# SO-100-0325160  
 Date ordered 1/31/2022  
 CSR name Nicole Hegeman  
 CSR E-mail nicole.hegeman@veseris.com  
 Sales Rep Name Joseph Manna  
 Sales Rep E-mail JOE.MANNA@veseris.com  
 Payment terms from Invoice Date NET30

Delivery address 400947-001  
 ANASTASIA MOSQUITO DIS  
 120 Eoc Dr  
 Saint Augustine, FL 32092-0927  
 USA

Billing address 400947-000  
 ANASTASIA MOSQUITO DIST  
 120 Eoc Dr  
 Saint Augustine, FL 32092-0927  
 USA

Ship date 1/31/2022  
 Shipping Provider VWR5  
 Shipping Method VWR5  
 Shipping Terms Prepaid Destination  
 Currency USD

Item number	Description	Remaining quantity	Delivered	Unit
809513	AQUABAC XT 2X2.5GL/CS BECKER MATL EPA#:62637-1 <a href="https://pestweb.com/products/document/809513">https://pestweb.com/products/document/809513</a>	43.00	137.00	JG

Receipt: \_\_\_\_\_

Handwritten calculation:  
 137  
 43  
 ---  
 180  
 - 2  
 ---  
 178  
 X 5  
 ---  
 890  
 450 gallons

USA, LLC  
10800 Pecan Park Blvd Ste 300

Austin, TX 78750-1477

USA



Telephone

Tax registration number 84-3689531

### Sales Order Shipping Confirmation

Page 1 of 1  
Shipment confirmation number SPS-401663.1  
PO# 12821-kay  
Order# SO-100-0325160  
Date ordered 1/31/2022  
CSR name Nicole Hegeman  
CSR E-mail nicole.hegeman@veseris.com  
Sales Rep Name Joseph Manna  
Sales Rep E-mail JOE.MANNA@veseris.com  
Payment terms from Invoice Date NET30

Delivery address 400947-001  
ANASTASIA MOSQUITO DIS  
120 Eoc Dr  
Saint Augustine, FL 32092-0927  
USA

Billing address 400947-000  
ANASTASIA MOSQUITO DIST  
120 Eoc Dr  
Saint Augustine, FL 32092-0927  
USA

Ship date 1/31/2022  
Shipping Provider VWR5  
Shipping Method VWR5

Shipping Terms Prepaid Destination  
Currency USD

Item number	Description	Remaining quantity	Delivered	Unit	Unit Price
809513	AQUABAC XT 2X2.5GL/CS BECKER MATL EPA#:62637-1 <a href="https://pestweb.com/products/document/809513">https://pestweb.com/products/document/809513</a>	0.00	43.00	JG	87.50

Receipt : \_\_\_\_\_



**ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY**  
**CHEMICAL & FUEL INVENTORY**  
 MONTH OF FEBRUARY 2022

**STATIONS: 120 EOC DRIVE (BASE STATION)**  
**TAKEN BY: DENA AUTRY**

CHEMICAL DESCRIPTION (indicate lbs., gals. or ea.)	BEGINNING PHYSICAL COUNT	AMOUNT PURCHASED	TRANSFER IN	TRANSFER OUT	AMOUNT AVAILABLE	AMOUNT USED	ENDING "BOOK" BALANCE	PHYSICAL COUNT	OVER / (UNDER)
ALTOSID WSP EA.	58,122.00				58,122.00	22.00	58,100.00	58,100.00	0.00
ALTOSID XR LBS.	2,382.00				2,382.00	0.00	2,382.00	2,382.00	0.00
ALTOSID XRG LBS.	41,840.00				41,840.00	80.00	41,760.00	41,760.00	0.00
AQUABAC XT GALS.	130.00	450.00			580.00	0.00	580.00	580.00	0.00
AQUALUER 20-20 GALS.	194.30				194.30	0.00	194.30	194.30	0.00
B. i. DUNKS (Doughnuts) EA.	838.00				838.00	0.00	838.00	838.00	0.00
COCO BEAR GALS.	51.72				51.72	0.25	51.47	51.47	0.00
DUET GALS.	516.02				516.02	0.00	516.02	516.02	0.00
MOSQUITOMIST TWO GALS.	358.50				358.50	0.00	358.50	358.50	0.00
NALED GALS.	1,270.00				1,270.00	0.00	1,270.00	1,270.00	0.00
NATULAR DT EA.	10,009.00				10,009.00	0.00	10,009.00	10,009.00	0.00
STRIKE PELLETS LBS.	44.00				44.00	0.00	44.00	44.00	0.00
SUSTAIN MBG LBS.	4,480.00				4,480.00	80.00	4,400.00	4,400.00	0.00
TALSTAR P GALS.	45.36				45.36	0.88	44.48	44.46	-0.02
VECTOBAC 12AS GALS.	54.75				54.75	1.75	53.00	53.00	0.00
GASOLINE GALS.	3,124.00				3,124.00	488.37	2,635.63	2,656.00	20.37
JET A GALS.	3,598.00				3,598.00	138.83	3,459.17	3,544.00	84.83
<b>TOTALS</b>	<b>127,057.65</b>	<b>450.00</b>	<b>0.00</b>	<b>0.00</b>	<b>127,507.65</b>	<b>812.08</b>	<b>126,695.57</b>	<b>126,800.75</b>	<b>105.18</b>



**ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY**  
**CHEMICAL & FUEL INVENTORY**  
 February 2022

TAKEN BY: Dena Autry

CHEMICAL DESCRIPTION (indicate lbs., gals. or ea.)	BEGINNING PHYSICAL COUNT	AMOUNT PURCHASED	TRANSFER IN	TRANSFER OUT	AMOUNT AVAILABLE	AMOUNT USED	ENDING "BOOK" BALANCE	PHYSICAL COUNT	OVER / (UNDER)	Actual
ALTOSED WSP EA.	58,122.00				58,122.00	22.00	58,100.00	58,100.00	0.00	0.0000
ALTOSED XR EA.	2,382.00				2,382.00	0.00	2,382.00	2,382.00	0.00	0.0000
ALTOSED XRG LBS.	41,840.00				41,840.00	80.00	41,760.00	41,760.00	0.00	0.0000
AQUABAC XT GALS.	194.30	450.00			580.00	0.00	580.00	580.00	0.00	0.0000
AQUALUER 20-20 GALS.	194.30				194.30	0.00	194.30	194.30	0.00	0.0000
B.T. BRIQUETS EA.	838.00				838.00	0.00	838.00	838.00	0.00	0.0000
COCO BEAR GALS.	51.72				51.72	0.25	51.47	51.47	0.00	0.2500
DUET GALS.	516.02				516.02	0.00	516.02	516.02	0.00	0.0000
MOSQUITOMIST TWO GALS.	358.50				358.50	0.00	358.50	358.50	0.00	0.0000
NALED GALS.	1,270.00				1,270.00	0.00	1,270.00	1,270.00	0.00	0.0000
NATULAR DT EA.	10,009.00				10,009.00	0.00	10,009.00	10,009.00	0.00	0.0000
STRIKE PELLETS LBS.	44.00				44.00	0.00	44.00	44.00	0.00	0.0000
SUSTAIN MBG LBS.	4,480.00				4,480.00	80.00	4,400.00	4,400.00	0.00	0.0000
TALSTAR P GALS.	44.48				44.48	0.88	44.48	44.46	-0.02	0.0000
VECTOBAC GALS.	54.75				54.75	1.75	53.00	53.00	0.00	1.7500
GASOLINE (120 EOC DR.) GALS.	3,124.00				3,124.00	488.37	2,635.63	2,656.00	20.37	0.0000
JET A FUEL GALS.	3,598.00				3,598.00	138.83	3,459.17	3,544.00	84.83	0.0000
TOTALS	127,057.65	450.00	0.00	0.00	127,507.65	812.08	126,695.57	126,800.75	105.18	

05-12

# Treatment Summary

From Date : 02-01-2022

To Date : 02-28-2022

Zone : All

Material : All

Task : All

Printed on 2022-03-01 07:57:49 EST

Material	Amount	Area Treated	Application Rate	Times
Altosid WSP	22 ea	0.07 acre	322.68 ea / acre	1 times
Altosid XRG	80 lb	13.33 acre	6 lb / acre	1 times
Cocobear	32 fl oz	0.08 acre	384.02 fl oz / acre	4 times
Sustain MBG	80 lb	10.67 acre	7.5 lb / acre	1 times
Talstar P	0.88 gal	2.62 acre	0.34 gal / acre	3 times
VectoBac 1ZAS	224 fl oz	14 acre	16 fl oz / acre	7 times

# AMCD

## Product Totals For Sites

Date Range From : 02/01/2022 12:00:00AM To : 02/28/2022 11:59:59PM

Pump - Hose		Transactions	Total Quantity
Product :	01 Unleaded		
Site Id :	003 Anasatisia Moquito Control		
01-1		38	488.366
Totals For Site :		<u>38</u>	<u>488.366</u>
Totals For Product :		38	488.366
Product : 02 Jet-A			
Site Id : 003 Anasatisia Moquito Control			
02-1		5	138.830
Totals For Site :		<u>5</u>	<u>138.830</u>
Totals For Product :		5	138.830



MONTHLY VEHICLE CHEMICAL INVENTORY

February 2022

NAME	VEHICLE	MILEAGE	EA. ALTOSID WSP	EA. ALTOSID XR	LBS. ALTOSID GRANULAR	GAL. AQUABAC XT LIQUID BTI	GAL. AQUALUER LIQUID ADULTICIDE	EA. SUMMIT BTI BRIQUETS	GAL. COCO BEAR	GAL. DUET	GAL. MOSQ MIST II	NATURAL DT	LBS. STRIKE PELLETS	LBS. SUSTAIN GRANULAR	OZ. TALSTAR P LIQUID	GAL. VECTOBAC LIQUID BTI
Ford Tractor	686	1,385														
ATV	934	898														
Backhoe	1018	862														
ATV	1109	550														
Service (TF)	1132	76,816														
Fog MM2	1133	87,989									10					
Conch Island	1134															
Service (TF)	1173	81,558														
Baby Conch	1194	0														
Fog MM2	1195	93,942									10					
Service	1196	108,111														
Surveillance	1197	69,288														
Service	1198	69,015														
Fog MM2	1199	58,413									10					
Fog MM2	1200	80,446									10					
Service	1201	78,397														
Service	1202	40,004														
Service	1203	67,100														
Gator	1223															
ATV	1273															
Service	1342	104,099														
Service Truck	1343	85,950														
Polaris 4 Wheeler	1366	453														
ATV	1367	562														
Surveillance (Air Boat)	1410	115,587														
Air Boat	1422	161														160
Spare	1425	65,225					3.2							40		
Service	1426	99,596														
Phil Vaughn	1462	63,382					3.2									
Holly Usina	1463	72,503					3.2									
Ford Explorer(Taylor)	1479	60,427														320
Spare Dual	1484	57,589					3.2									
Spare Dual	1485	62,538					3.2									
David Strickland	1493	48,364					3.2									240
Dena Autry	1494	53,189	100				3.2									
Fork Lift	1536	182														
Jerry Iser	1544	55,351	50	34			3.2	38	128			37				224
Dazmond Hackney	1546	37,806					3.2							20		256
Kyle Arber	1548	32,373					3.2							20		176
Cathy Hendricks	1550	52,529					3.2									
Mike Phillips	1611	10,142					3.2									
Jeremy Wohlforth	1613	22,538					3.2		60							288
Ruide Xue	1615	13,133														
Service Expedition	1630	6,221														
Holly Usina	1633	5,962	50				3.2		128							320
Gator	1666	79														
Pending Dual Duty	1692	3,183														
Gallons / Pcs.			200	42	0	0	44.8	38	316	0	40	37	0	80	0	1984
Chemical Room	EOC		57900	2340	41760	74240	149.5	800	49	516.02	318.5	1270	9972	44	4320	4800
Physical Count			58,100.00	2,382.00	41,760.00	580.00	194.30	838.00	51.47	516.02	358.50	1,270.00	10,009	44.00	4,400.00	53.00

EA. ALTOSID WSP	EA. ALTOSID XR	LBS. ALTOSID GRANULAR	GAL. AQUABAC XT LIQUID BTI	GAL. AQUALUER LIQUID ADULTICIDE	EA. SUMMIT BTI BRIQUETS	GAL. COCO BEAR	GAL. DUET	GAL. MOSQ MIST II	NATURAL DT	LBS. STRIKE PELLETS	LBS. SUSTAIN GRANULAR	OZ. TALSTAR P LIQUID	GAL. VECTOBAC LIQUID BTI
200	42	0	0	44.8	38	316	0	40	37	0	80	0	1984
57900	2340	41760	74240	149.5	800	49	516.02	318.5	1270	9972	44	4320	4800
58,100.00	2,382.00	41,760.00	580.00	194.30	838.00	51.47	516.02	358.50	1,270.00	10,009	44.00	4,400.00	53.00

Meter Reading

Base      End Reading      Last Month      Used      K800 used      488.366

MONTHLY MILEAGE

February Mileage 2022 (2)

NAME	VEHICLE	MILEAGE
Ford Tractor	686	1,385
ATV	934	898
Backhoe	1018	862
ATV	1109	550
Service (TF)	1132	76,816
Fog MM2	1133	87,989
Conch Island	1134	0
Service (TF)	1173	81,558
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Surveillance	1197	69,288
Service	1198	69,015
Fog MM2	1199	58,413
Fog MM2	1200	80,446
Service	1201	78,397
Service	1202	40,004
Service	1203	67,100
Gator	1223	0
ATV	1273	0
Sevice	1342	104,099
Service Truck	1343	85,950
Polaris 4 Wheeler	1366	453
ATV	1367	562
Surveillance (Air Boat)	1410	115,587
Air Boat	1422	161
Dena Autry	1425	65,225
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Cathy Hendricks	1550	52,529
Mike Phillips	1611	10,142
Jeremy Wohlforth	1613	22,538
Ruide Xue	1615	13,133
Service Expedition	1630	6,221
Dual Duty	1633	5,962
Gator	1666	79
Pending Dual Duty	1692	3,183





# Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, FL 32092  
Telephone: (904)-471-3107 \* Fax (904) 471-3189 \* Web: [www.amcdsjc.org](http://www.amcdsjc.org)

## BOARD OF COMMISSIONERS

Jeanne Moeller, Chairperson  
Trish Becker, Vice-Chairperson  
Gayle Gardner, Secretary/Treasurer  
Catherine Brandhorst, Commissioner  
Gina LeBlanc, Commissioner



## DISTRICT DIRECTOR

Dr. Rui-de Xue



Thursday, March 10, 2022

Next Meeting(s): Regular Meeting.; Thursday, April 14, 2022 – 5:00 PM

## MINUTES

The regular Board meeting for the Anastasia Mosquito Control District of St. Johns County was held on Thursday, March 10, 2022, at 5:00 P.M.

Board members in attendance:

Mrs. Jeanne Moeller, Chairperson  
Mrs. Trish Becker, Vice-Chairperson  
Mrs. Gayle Gardner, Secretary/Treasurer  
Ms. Gina LeBlanc, Commissioner

Board member absent:

Mrs. Catherine Brandhorst, Commissioner

Also in attendance:

Dr. Rui-De Xue, Director  
Mr. Wayne Flowers, Attorney

Chairperson Moeller called the meeting to order.

Vice-Chairperson Becker Led the Pledge of Allegiance to the flag.

**ROLL CALL:** Chairperson Moeller noted ~ Commissioner Brandhorst was absent missing third meeting in a row

**CITIZEN PARTICIPATION:** For Items not on the agenda ~ None

**APPROVAL OF AGENDA:** Chairperson Moeller called for approval of the agenda as presented.

**A. A motion was made to approve the agenda as presented.**

- Motioned by: Commissioner Trish Becker
- Seconded by: Commissioner Gayle Gardner
- VOTE accepted unanimously by all commissioner's present
- **MOTION PASSED UNANIMOUSLY**

**APPROVAL OF CONSENT AGENDA:** Chairperson Moeller called for approval of the Consent Agenda.



**A. A motion was made to approve the Consent Agenda as presented.**

- Motioned by: Commissioner Gayle Gardner
- Seconded by: Commissioner Gina LeBlanc
- VOTE: Accepted unanimously by all Commissioners present
- **MOTION PASSED UNANIMOUSLY**

**Consent Items ~ APPROVAL OF:**

1. Treasurer's Report
2. Vouchers (*Cancelled Checks*)
3. Chemical Inventory
4. Minutes: Regular Board Meeting, February 10, 2022 at 5:00 P.M.
5. Agreement between MosquitoMate and AMCD for software use.
6. Commissioner Mrs. Moeller and 2 staff to attend SOVE meeting in September.
7. Commissioner Mer. Becker and Mr. Weaver attending AMCA Washington DC legislation meeting, May 18-19.
8. Approval of the appointment of Dr. Uli Bernier as Adjunct Senior Chemistry (Volunteer).
9. Approval of allowing Salt Lake City MCD's Director and two Board members to ride our helicopter during the 17<sup>th</sup> workshop.

**UNFINISHED BUSINESS:**

**Item 1: Update about SIT building progress... ~ Thompson Taylor, Harrell Construction**

- Mr. Tayler reported from his written report that they have the site permit, the building plans have been submitted to the County for permitting, they are one month ahead of schedule, talked about delivery of the generator and asked for questions. Commissioner Becker asked if the steel building is on site, Mr. Thompson confirmed it was on site. Commissioner Becker then asked if once the permits are issued then we can start pouring concrete. Mr. Tayler responded, that the addendums for the contract will need to be approved and asked Mr. Glen Harrell to address this issue. Mr. Harrell said, that once the plans are permitted, Harrell Construction will review any changes to the plans and the cost associated with those changes and bring back those changes to the Board.

- **THERE WAS NO MOTION ON THIS ITEM**

**Item 2: Summary report about AMCA meeting in Jacksonville... ~ Dr. Rui-De Xue**

- Dr. Xue started by talking about the AMCA meeting, saying that AMCD had eleven collaborative presentations, six from AMCD employees, Commissioner Becker gave presentation in the student competition, Dr. Xue received the medal of honor from the AMCA and was elected Vice-President of AMCA. Dr. Xue reported that three Commissioners, eight staff attended, and also eight staff volunteered at the AMCA conference. Dr. Xue continued that before the meeting AMCD had about forty people visit the AMCD facility and had very good feedback especially on the building of the SIT building that may lead to collaboration and/or grants.

- **THERE WAS NO MOTION ON THIS ITEM**

**Item 3: Commissioner Mrs. Becker's presentation (Ppt)... ~ Mrs. Becker**

- Chairperson Moeller introduced Commissioner Becker and said that she saw the presentation at the AMCA and thought it was important for the other Board member to see the presentation.

Commissioner Becker gave the presentation Environmental Plastic Pollution is Giving Mosquitoes a New Superpower (presentation attached to minutes). Commissioner Becker asked for questions. Chairperson Moeller commented how important the student presentations are and that they are often doing cutting edge research how important Commissioner Becker's subject was.

- **THERE WAS NO MOTION ON THIS ITEM**

### NEW BUSINESS

#### **Item 1: Approval of switching May 12's Board meeting to May 5 ~ Mrs. Becker**

- Commissioner Becker asked the Board to move the May 12, 2022 meeting to May 5, 2022 because of a scheduling conflict. The Board agreed that moving the meeting to the fifth was fine.

- **THERE WAS NO MOTION ON THIS ITEM**

#### **Item 2: Update about the 17<sup>th</sup> arbovirus surveillance and mosquito control workshop, March 29-31...~ Dr. Rui-De Xue**

- Dr. Xue reported that so far 43 were registered, with 67 presentations scheduled although international speakers had to cancel. Dr. Xue also canceled three AMCD employee speeches to allow for more guest speakers and expects over 200 people spread over the three days. Dr. Xue talked about waiving registration fees for collaborators and sharing printed copies of the annual report at the meeting. Dr. Xue then asked if anyone had questions. Commissioner Becker asked if the speakers would be in the hangar, Dr. Xue responded the speakers will be in the board room but the food will be in the hangar.

- **THERE WAS NO MOTION ON THIS ITEM**

#### **Item 3: Update about 2021 annual program report (draft)... ~ Dr. Rui-De Xue**

- Dr. Xue talked about items in the report to include the grant money, approval of the Education building and the SIT building, Chairperson's welcome letter and millage rate. Dr. Xue explained this is still a draft and the Board has about a week to let him know about edits before going to print next week.

- **THERE WAS NO MOTION ON THIS ITEM**

### REPORTS:

1. **Director** ~ Dr. Xue reported: Talked about the warm winter, preparations for the sentinel chicken program, trap repairs, helicopter repairs, employee evaluations and workshop.
2. **Attorney** ~ Mr. Flowers; No report this month.

### COMMISSIONER COMMENTS:

**Commissioner LeBlanc** ~ Thank the staff for all their hard work.

**Commissioner Becker** ~ Thanked the volunteer staff at AMCA, and talked about how impressed she was with the event especially the vender exhibits. Commissioner Becker explained that she talked to all the vendors about the SIT and Education buildings and how excited people were with these new buildings

and she also touted AMCD's GLP status. Commissioner Becker then said that she wrote an article celebrating women's history month for Loving Our Town St. Augustine magazine about women in science to be published in about a week. She gave Mr. Weaver a donated cartoon for the education center and said thank you. Dr. Xue asked Commissioner Becker to write an article for Wing Beats on micro plastics, Commissioner Becker agreed and said how much interest the talk got at the AMCA. Dr Xue talked about the possibility of getting a grant for this type of study.

**Commissioner Gardner** ~ None.

**Commissioner Moeller** ~Thanks staff for their hard work, asked to please note that Commissioner Brandhorst has missed her third meeting and then closed the meeting.

**ATTACHMENTS:** ~

- 1. None

**ADJOURNMENT:**

Chairperson Moeller adjourned the meeting at 5:45 P.M.

**ATTEST**

\_\_\_\_\_  
**Chairperson, Commissioner Jeanne Moeller**

\_\_\_\_\_  
**Secretary/Treasurer, Commissioner Gayle Gardner**

*These minutes are not intended to be a verbatim transcript of this meeting and could easily be misinterpreted by a reader who was not present. To obtain a full and accurate record of the meeting, an individual should view/listen to the entire proceedings via the District's DVD visual/recording system.*







# Anastasia Mosquito Control District of St. Johns County

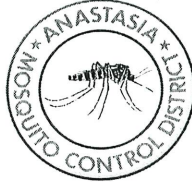
120 EOC Drive, St. Augustine, Florida 32092

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## 2022 MEMO

DISTRICT DIRECTOR

Dr. Rui-De Xue



BOARD OF COMMISSIONERS:

Jeanne Moeller, Chairperson  
Trish Becker, Vice-Chairperson  
Gayle Gardner, Secretary/Treasurer  
Catherine Brandhorst, Commissioner  
Gina LeBlanc, Commissioner

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Commissioners

DATE: April 6, 2022

RE: Approval of September Board regular meeting and public hearing dates

---

The regular September's Board meeting will be held on September 15 (Thursday) at 5:00pm and the 1<sup>st</sup> public hearing will be held on the same day at 5:30pm. Based on the TRIM law requirement (final hearing must be held within 15 days after the 1<sup>st</sup> public hearing), the final public hearing will be held on September 29 (Thursday) at 5:30pm. We will publish and announce the meeting and hearing date and time.

Thanks for your support.



# Anastasia Mosquito Control District of St. Johns County

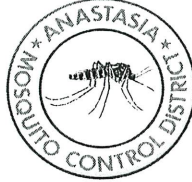
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Catherine Brandhorst, Commissioner  
Gina LeBlanc, Commissioner

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Commissioners

DATE: April 6, 2022

RE: Summary Report (17<sup>th</sup> annual arbovirus surveillance and mosquito control workshop)

---

The 17<sup>th</sup> annual arbovirus surveillance and mosquito control workshop has been held in persons at AMCD, St. Augustine, FL, March 29-31 after 2 year postpone due to COVID pandemic. The workshop was in conjunction with the NECE equipment demo in the afternoon of March 31, but the demo was cancelled due to bad weather condition. There were more than 160 participates with 64 presentations (4 presentations by virtual). We received many positive feedbacks about the workshop programs and AMCD facility. No international speakers presented due to travel restriction this year.

Thanks for your support.



**MEMORANDUM OF UNDERSTANDING BETWEEN  
i2L RESEARCH LIMITED  
and  
ANASTASIA MOSQUITO CONTROL DISTRICT**

This MEMORANDUM OF UNDERSTANDING is hereby made and entered into this \_\_\_\_ day of April, 2022 by i2L Research Limited, hereinafter referred to as “i2L” and Anastasia Mosquito Control District, hereinafter referred to as “AMCD”.

**A. PURPOSE**

The purpose of this Memorandum of Understanding (MOU) is to establish a mutually agreeable framework for i2L to reserve and utilize AMCD’s facilities and personnel for research projects, hereinafter referred to as “i2L Research”.

**B. STATEMENT OF MUTUAL BENEFIT AND INTERESTS**

Both parties to the MOU agree that it is in their mutual interest and benefit to work cooperatively in establishing this MOU to support i2L Research at AMCD facilities.

**C. PROGRAM OVERVIEW**

AMCD is an independent special district created by legislative act and based in St. Augustine, Florida. AMCD operates mosquito control facilities in Florida for purposes of providing mosquito control, community education, and research services. AMCD is willing to work with i2L for purposes of facilitating and assisting with various i2L Research projects.

i2L is a Maryland corporation with its headquarters located in Baltimore, Maryland. i2L is a leading product testing and development center for the agrochemical, household pesticide, and animal health industries. i2L has extensive experience in plant protection products, biocides and professional pest control products. As part of its business model, i2L is interested in partnering with AMCD to conduct research for purposes of testing and developing various products.

AMCD and i2L are executing this MOU for purposes of creating a framework to facilitate their partnership and to standardize the process for i2L submitting requests for proposal quotes, AMCD submitting proposal quotes, and the parties working together once the proposal is accepted.

**D. i2L’s OBLIGATIONS**

- From time to time, i2L is approached by its customers to carry out mosquito product semi-field testing. When this occurs, i2L agrees to consider AMCD for purposes of carrying out such semi-field testing.

- When i2L has a project that it determines is appropriate for AMCD, i2L will ask AMCD to submit a quote to carry out the work. In i2L's request for proposal, i2L will provide sufficient detail of the project to enable AMCD to determine the cost and time frame necessary to carry out the work.
- After receiving a proposal quote from AMCD, i2L will respond to the proposal notifying AMCD if the proposal has been accepted.
- Once a proposal is agreed, i2L will liaise with AMCD to complete the project. This may include the presence, agreed in advance, of i2L personnel on site to assist with the work.
- i2L will pay all validly issued invoices after receiving payment from the sponsor of the i2L Research.

#### E. AMCD'S OBLIGATIONS

- When AMCD receives a request for proposal from i2L, it will use its best efforts to submit a proposal quote within seven (7) days of receiving the request.
- The proposal quote submitted will provide an itemized list of costs, a suggested time frame to carry out the work, and any material conditions or limitations associated with the proposal.
- AMCD will invoice i2L for 50% of the total costs at the start of the project, and the remaining 50% once the project is complete.
- Once a proposal is accepted by i2L, AMCD will perform its services using that degree of care and skill ordinarily exercised under similar conditions by professional researchers in the same field of research.
- All testing should follow appropriate guidelines: EPA, FIFRA etc. and experiments performed under GLP (Good Laboratory Practices) as defined by 40 CFR Part 160 (when applicable).

#### F. GENERAL TERMS. It is mutually understood and agreed by the parties that:

1. **Term and Termination.** This MOU is effective as of \_\_\_\_\_, 2022 and will remain effective until terminated by either party with ninety (90) days advance written notice.
2. **Principal Contacts.** The principal contacts for this MOU and i2L Research are:

i2L Research Limited

Edwin Afful PhD  
I2LResearch Inc. USA  
1430 Joh Ave Suite L-M  
Executive Director  
Baltimore MD 20724  
[edwin@i2lresearch.com](mailto:edwin@i2lresearch.com)

Anastasia Mosquito Control District

[Insert Contact Info]

AND

Peter McEwen PhD FRES  
Chief Executive Officer  
i2LResearch Limited,  
Capital Business Park,  
Wentloog, Cardiff, CF3 2PX, UK  
[peter@i2lresearch.com](mailto:peter@i2lresearch.com)

3. **Independent Contractors.** This MOU reflects an entirely voluntary commitment between the parties. With respect to each other, the parties are independent contractors at all times and neither party shall have any right, power, or authority to create any obligation, express or implied, on behalf of the other party.
4. **Compliance with Law.** Both i2L and AMCD agree to comply with all applicable federal, state, and local laws and regulations in the performance of services hereunder.
5. **On Site Safety.** To the extent i2L employees are on site to assist with i2L research, AMCD will ensure that such employees are informed and educated regarding all necessary safety protocols in connection with AMCD facilities.
6. **Confidentiality.** The terms of this MOU and i2L Research are confidential. Each party is required to hold the non-public, confidential, or proprietary information it receives from the other party in confidence and agrees to protect such information using at least the same degree of care it uses to protect its own proprietary and confidential information and materials of like importance (but not less than the care of a reasonably prudent person). AMCD will not disclose or permit any third person or entity access to the confidential or proprietary information related to i2L Research without i2L's prior written permission.
7. **Indemnification.** Each of i2L and AMCD (being the "indemnifying party") shall indemnify and hold the other harmless for, from, and against any and all claims, lawsuits, actions, demands, losses, liabilities, damages, judgments, penalties, costs, and expenses (including, without limitation, attorneys' fees) that are brought against,



incurred by, or sought to be imposed on the other arising from the indemnifying party's unlawful or grossly negligent act or omission or its willful misconduct.

8. **LIMITATION OF LIABILITY. IN NO EVENT WILL EITHER PARTY BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO ANY LOSS OF USE OR UNDER-UTILIZATION OF LABOR OR FACILITIES, LOSS OF REVENUE OR ANTICIPATED PROFITS, OR LOST DATA, REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT, OR OTHERWISE, EVEN IF A PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**
9. **Insurance.** Each party will maintain general liability and property insurance policies sufficient to cover any potential liabilities under this MOU or in connection with the i2L Research.
10. **Force Majeure.** Either party will be excused for any failure or delay in performance or delivery due to any cause beyond its reasonable control, including, but not limited to, act of God, outbreak, war, riot, pandemic, fire, explosion, flood, storm, accident, labor strike, sabotage, compliance with governmental requests, laws, regulations, orders or actions.
11. **Governing Law.** This MOU is governed by and will be construed in accordance with the laws of the state of Florida, without regard to conflict of laws principles.
12. **Modifications.** Either party may request changes to this MOU. Any changes, modifications, revisions or amendments to this MOU which are mutually agreed upon by and between the parties to this MOU shall be incorporated by written instrument, executed and signed by authorized individuals from both parties to this MOU.
13. **Counterparts.** This MOU may be executed in any number of counterparts, each of which shall be deemed to be an original, and all of which together shall constitute one and the same agreement. Each party acknowledges that an original signature or a copy thereof transmitted by facsimile or other electronic image transmission shall constitute an original signature for purposes of this MOU.

IN WITNESS WHEREOF, each of the parties hereto has caused this MOU to be executed by its duly authorized officers or representatives.

i2L RESEARCH LIMITED

ANASTASIA MOSQUITO CONTROL DISTRICT

By \_\_\_\_\_

By \_\_\_\_\_

Name \_\_\_\_\_

Name \_\_\_\_\_

Title \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_





# Anastasia Mosquito Control District of St. Johns County

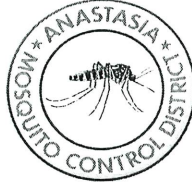
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## 2022 MEMO

DISTRICT DIRECTOR

Dr. Rui-De Xue



BOARD OF COMMISSIONERS:

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Trish Becker, Vice-Chairperson  
Gayle Gardner, Secretary/Treasurer  
Catherine Brandhorst, Commissioner  
Gina LeBlanc, Commissioner

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Commissioners

DATE: April 6, 2022

RE: Job Description for a Laboratory Manager

---

Based on GLP requirement, three insectaries (one under quarantine), laboratory equipment and facility, especially the Sterile Insect Technology (SIT) facility, the District needs to have a Laboratory Manager to supervise and manage all laboratories from next budget year. Attached is the Job Description for the laboratory manager for discussion and approval.

Thanks for your support.

**THE ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY**  
**JOB DESCRIPTION**

<b>JOB TITLE</b>	<b>DEPARTMENT</b>	<b>STATUS</b>	<b>REPORTS TO (TITLE:)</b>
Lab Manager	Science Dept.	Exempt	Science Manager

**PURPOSE OF JOB:**

Direct, supervise, and conduct laboratory activities in coordination with District personnel. This includes managing personnel that oversee the insectaries, bioassay laboratories, and other laboratory spaces where projects may be conducted. Assistance with testing protocols, quality control, study design, safety, calculations, and data analysis of projects supporting District operations will be an essential job function. Develop and provide training to employees related to laboratory programs to enhance knowledge and further the understanding of the District's mission and goals. Make sure safety manuals and protocols are developed, maintained, updated and followed by lab employees. Maintain records for all equipment and instruments to include calibration and repairs.

**ESSENTIAL DUTIES AND RESPONSIBILITIES:**

1. Supervise and manage the insectaries, related lab, and associated personnel.
2. Conduct, develop, and refine insectary protocols and maintain quality assurance of AMCD's mosquito colonies.
3. Conduct fitness and resistance testing of AMCD colonies to ensure quality control for good laboratory practice, sponsored, and grant related projects.
4. Develop and maintain laboratory supplies list for purchasing and ensuring that laboratory studies can be completed.
5. Conduct and coordinate applied research laboratory projects in mosquito control, as determined by the Science Manager.
6. Develop and maintain annual schedule of calibration for laboratory equipment.
7. Develop and maintain inventory and maintenance list of all equipment and supplies used in laboratory studies including chemicals.
8. Develop and maintain all laboratory SOPs, Chemical usage sheets, laboratory chemical inventory, and laboratory safety protocols.
9. Report findings, data summaries, and present timely reports, which may be required daily, to the Director and Science Manager, from all programs in a scientifically accurate manner and be prepared to also present findings to the Board of Commissioners.
10. Maintain a current literature file on laboratory techniques used in Mosquito Control.
11. Assure all laboratory staff utilize safe handling and application of all chemicals used by the District for mosquito control and their understanding of the current "safety data sheets".

12. Assist the District Director and Supervisors in budget recommendations and purchases for programs and special projects related to laboratory equipment and supplies per accepted District purchasing policies and procedures.
  13. Participate in District staff meetings, technical meetings and budget meetings, as directed.
  14. Maintain memberships (paid by the District) and active participation in the Professional Mosquito Control Associations (ie. AMCA, FMCA etc.).
  15. Other projects and job duties as assigned and based on District need.
- 

#### **SUPERVISORY RESPONSIBILITIES:**

Responsible for the direct supervision, evaluation and performance management of Biological Technician(s), Seasonal Laboratory Assistant(s) and Seasonal Intern(s).

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#### **QUALIFICATIONS:**

1. Masters Degree in entomology, zoology, biology, public health or related scientific field from an accredited college or university.
  2. Minimum of two years (3) years of laboratory experience is required. Publication in peer-reviewed journals recommended.
  3. Proficiency in Microsoft Office **Suite** to include MS Word, Excel, Access, PowerPoint software and working knowledge of email and the internet.
  4. Proficiency in basic statistical analysis is required.
  5. Must possess proficient skills in written grammatical composition. Must possess good organizational, interpersonal, and communication skills. Public speaking skills are desirable.
  6. Must possess a valid Florida driver's license with an acceptable driving record.
  7. Must maintain applicable licenses, including certification in the application of "restricted use" pesticides, as per Chapter 388, Florida Statutes, and Chapter 5E-13, Florida Administrative Code, FL Department of Agriculture and Consumer Services. If not in possession when hired, certification is required within six months of employment.
  8. Must have the ability to travel.
- 

#### **WORK ENVIRONMENT/PHYSICAL REQUIREMENTS:**

The physical demands and work environment characteristics described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform essential functions.

**Physical Requirements:** Heavy physical activity is occasionally required when in the field including lifting, reaching for, pulling and carrying up to fifty pounds, reaching and pulling with arms, stooping, kneeling, bending frequently, standing for long periods of time, walking for long distances, sitting for long periods of time while driving a vehicle, and climbing over and around natural obstacles, in and out of a variety of equipment and vehicle and up and



down ladders. Must be able to use hands and fingers to type, and grip and operate a variety of hand tools and other equipment. Excellent vision, both close and distance, is regularly required.

**Work Environment:** The work environment varies but normally includes laboratories and office buildings and may occasionally include workshops, animal rearing/storage facilities, boats, vehicles, marshes, fields, and islands. When in the field, exposure to all types of weather will occur and exposure to sun, rain, mud, manure, a variety of farm animals and insects will occur frequently. Frequent local travel is required. Noise level is usually low. Working with and around chemicals and biological control organisms, which are stored, handled, applied/used and disposed of according to exact labeling instructions, is required frequently.

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**I HAVE READ AND UNDERSTAND THIS JOB DESCRIPTION.**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

# Unfinished Business #1



**LLW**

**LEWIS  
LONGMAN  
WALKER**

Attorneys at Law  
llw-law.com

Reply to Jacksonville

January 19, 2022

Ms. Catherine Brandhorst  
220 Whispering Woods Lane Apt. 12  
St. Augustine, FL 32084

Re: Attendance at Anastasia Mosquito Control  
District Board Meetings

Dear Ms. Brandhorst:

At the January 13, 2022 meeting of the Anastasia Mosquito Control District (“AMCD”) Board of Commissioners (“Board”), I was asked by the Board to communicate with you regarding the Board’s Policy on Commissioner Attendance at Board Meetings (“Policy”). When a Commissioner has 3 unexcused absences from regular monthly Board meetings within a period of 12 consecutive months, the Policy requires a communication, such as this letter, with a Commissioner whose absences have reached this threshold. Inasmuch as you have had at least 3 unexcused absences from Board meetings (including the January 13, 2022 meeting) over the last 12 months, the Policy requires this letter to you. A copy of Policy is enclosed with this letter for your review.

Please know that the Board is concerned if health or other issues are affecting your ability to attend Board meetings in-person. As a reminder, the Board’s policies permit attendance at meetings via communications media (e.g., by telephone) when extraordinary circumstances exist that prevent a Commissioner from attending a meeting in-person. I have also included a copy of that policy for your review as well.

If you have any questions about these policies, please call me or Dr. Xue. I know the Board joins me in hoping we will see you at the February 10, 2022 Board meeting.

Sincerely,

Wayne E. Flowers  
Counsel for AMCD

c: Dr. Rui de Xue

**JACKSONVILLE**

245 Riverside Ave.  
Suite 510  
Jacksonville, FL 32202  
T: 904.353.6410  
F: 904.353.7619

**ST. PETERSBURG**

100 Second Ave. South  
Suite 501-S  
St. Petersburg, FL 33701  
T: 727.245.0820  
F: 727.290.4057

**TALLAHASSEE**

315 South Calhoun St.  
Suite 830  
Tallahassee, FL 32301  
T: 850.222.5702  
F: 850.224.9242

**TAMPA**

301 West Platt St.  
Suite 364  
Tampa, FL 33606  
T: 813.775.2331

**WEST PALM BEACH**

360 South Rosemary Ave.  
Suite 1100  
West Palm Beach, FL 33401  
T: 561.640.0820  
F: 561.640.8202



## <sup>37</sup>COMMISSIONER ATTENDANCE AT BOARD MEETINGS

Election to the Board of Commissioners (Board) of the AMCD creates a relationship of trust between the voters of St. Johns County and any individual honored to be elected as a Commissioner of the AMCD. Critical to that trust relationship, and importantly, critical to the ability of any elected Commissioner to provide effective service to the voters of St. Johns County is attendance at meetings of the Board. The purpose of this policy is to establish guidelines for Commissioners regarding regular attendance at Board meetings.

### **1. Commissioners Shall Attend Board Meetings**

Commissioners are expected to attend all monthly Board meetings as well as Board Committee meetings for any Board Committee on which a Commissioner serves.

### **2. Notification in Event of Necessary Absence from Board Meeting**

In the event it becomes necessary for a Commissioner to be absent from a Board meeting, the Commissioner shall:

- a) Notify the Executive Director or the Executive Director's designee as far in advance as possible of the Commissioner's anticipated absence from a scheduled meeting, and provide the reasons necessitating the Commissioner's absence from the meeting; and
- (b) Where authorized pursuant to the terms of the Board's Participation in Meetings of the Board of Commissioners via Communications Media Technology and feasible, follow the appropriate steps to be permitted by the Board to attend and participate in the meeting via communications media technology.

The Executive Director will report to the Board any notifications received from a Commissioner of that Commissioner's intention to be absent from an upcoming Board meeting along with the reasons stated for the absence.

### **3. Excused Absences from Board Meetings**

The Board recognizes that there are circumstances in which a Commissioner's absence from a Board meeting is unavoidable and would therefore be excused, e.g., illness of a Commissioner or of a Commissioner's family member, death of a member of the Commissioner's family, a Board decision to change the date of a previously scheduled Board meeting, required business travel, etc. While these examples do not necessarily cover all circumstances that would warrant excusing an absence from a scheduled Board meeting, the circumstances should be such that for the absence to be excused, it is not based on mere convenience for the requesting Commissioner. The Board ultimately determines whether the circumstances warrant an absence being excused or unexcused.

### **4. Guideline for Commissioner Attendance**

A Commissioner shall not have more than three (3) total unexcused absences from regularly scheduled meetings of the Board in any consecutive twelve (12) month period.

### **5. Communication when Attendance Guideline Exceeded**

Should a Commissioner exceed the attendance guideline stated in Paragraph 4, above (more than 3 unexcused absences in a consecutive 12 month period), the Board Chair (or the Vice-Chair if the Commissioner involved is the Board Chair) shall send a letter to that Commissioner noting the exceedance of the Board's attendance guideline and enclosing a copy of this policy. The letter will be read by the Board Chair in public at the next scheduled Board meeting.

BACK to "TOC"

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<sup>37</sup> As approved by the Board of Commissioners on 8-30-18

### **38 PARTICIPATION IN MEETINGS OF THE BOARD OF COMMISSIONERS VIA COMMUNICATIONS MEDIA TECHNOLOGY**

This Policy describes the circumstances under which a Commissioner may participate in a meeting of the Board of Commissioners ("Board") or a committee thereof through the use of communications media technology, without being physically present for the meeting. Communications media technology, for purposes of this Policy includes electronic transmission of printed matter, audio, full-motion video, freeze-frame video, compressed video, and digital video by any method available. As discussed further below, a Commissioner may only be permitted to participate in a meeting via communications media technology when extraordinary circumstances exist that prevent the Commissioner from being physically present at the meeting in question.

A Commissioner may participate in any meeting of the Board, or a committee thereof, including casting votes on matters before the Board, only when all of the following requirements are met:

- A. A quorum of the Commissioners is physically present at the site of the meeting. Any Commissioner attending via electronic media technology may not be counted towards establishing a quorum for the meeting.
- B. All participants attending the meeting (Commissioners, staff, and the public) are able to hear and be heard by the Commissioner attending the meeting via communications media technology.
- C. Extraordinary circumstances exist that prevent the Commissioner proposing to attend the meeting via communications media technology from being physically present at the meeting. "Extraordinary circumstances" for purposes of this Policy includes one or more of the following:
  1. Hospitalization of the Commissioner or an "immediate family member" (as outlined in the Bereavement Policy of the Employee Handbook, page 4-32) of the Commissioner;
  2. Injury or Illness, including an illness that is contagious, that prevents the Commissioner from leaving home to attend the meeting, or injury or illness of a Commissioner's "immediate family member" (as outlined in the Bereavement Policy of the Employee Handbook, page 4-32) who must be cared for by the Commissioner;
  3. Death of an "immediate family member" (as outlined in the Bereavement Policy of the Employee Handbook, page 4-32) of the Commissioner.
  4. Physically Disabled Member
  5. Such other circumstances as are described in a written request by a Commissioner to the Board asking permission to participate in a meeting via communications media technology.

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If a Commissioner makes a request pursuant to number 5 above the request will be the first item for consideration on the agenda of the meeting the Commissioner seeks to attend through use of communications media technology. If the Board present at the meeting determines, through majority vote, that the circumstances described in the written request are extraordinary, then the request will be granted and the Commissioner will be permitted to participate in the meeting through use of communications media technology.

[BACK to "TOC"](#)



# Unfinished Business #2

# Anastasia Mosquito Control District of St. Johns County

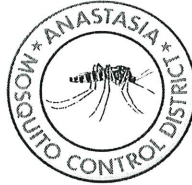
120 EOC Drive, St. Augustine, Florida 32092

PH: (904) 471-3107 • Fax (904) 471-3189 • Web Address: [www.amcdsjc.org](http://www.amcdsjc.org)

## 2022 MEMO

DISTRICT DIRECTOR

Dr. Rui-De Xue



BOARD OF COMMISSIONERS:

Jeanne Moeller, Chairperson

Trish Becker, Vice-Chairperson

Gayle Gardner, Secretary/Treasurer

Catherine Brandhorst, Commissioner

Gina LeBlanc, Commissioner

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director & Mr. Dana Smith, Chief Pilot

CC: Commissioners

DATE: April 6, 2022

RE: Helicopter Insurance Summary Report

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Aircraft N874M was incident and the insurance company has paid for the repair. Total funds expended for the repairs of helicopter 74M is \$216,000.00. Allowable paid hours for inhouse repairs \$26,000.00. After the deductible of \$20,000.00 was met and the \$120,000.00 that was already reimbursed for the cost of the blades the insurance company is issuing a final payment of \$106,083.88.

The aircraft repairs are complete and the issuance of the final payment was coordinated the last week of March 2022.

Thanks for your support.


# Unfinished Business #3



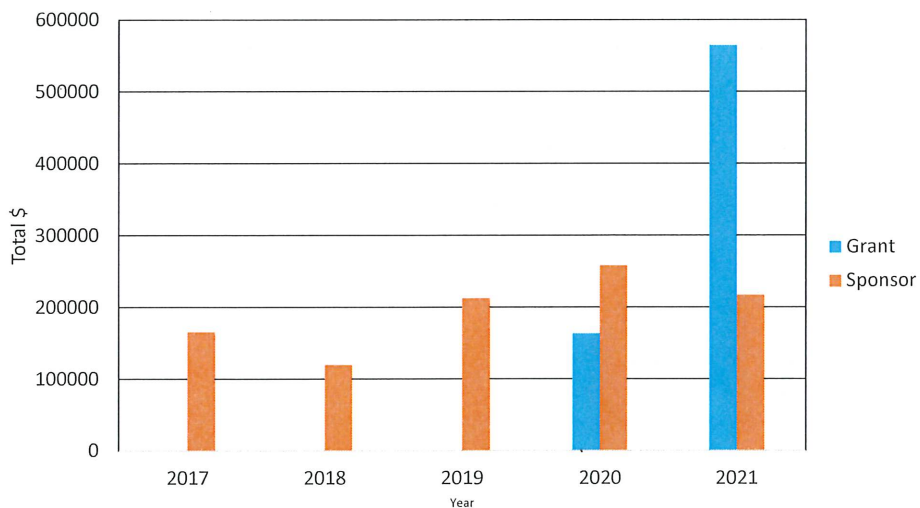


ANASTASIA  
MOSQUITO  
CONTROL  
DISTRICT'S APPLIED  
RESEARCH  
COLLABORATION

Whitney A. Qualls, MS, PHD  
Science Manager and  
Entomologist



## Total Dollars from Grants and Sponsored Projects 2017-2021







Study Code	Study Director	Sponsor	Study Type (GLP or non-GLP)	Nature of Study	Study Location	Test Items	Test Systems	Other Staff
2021/001	Farooq	Thermacell	non-GLP	Evaluation of candidate products for thermacell unit	AMCD	Natural Oils	Ae. aegypti	Kai Blore, Olivia Sypes
2021/002	Farooq	Onedrings	non-GLP	Evaluation of repellents for dose response	AMCD	Decanonic and Lauric Acids Clove Oil, Immotelle Oil,	Ae. aegypti	Lea Bangonan
2021/003	Farooq	Internal	non-GLP	Natural oils as spatial repellents	AMCD	Euclytis Oil, Gernoil, Lemongrass Oil	Ae. aegypti	Lea Bangonan
2021/004	Farooq	Internal	non-GLP	Evaluation of battery powered misters as ULV sprayers	AMCD	Field King, Ryobi, Spray Mate	Ae. aegypti	Morgan, Steven, Whitney,
2021/005	Blore	Internal	non-GLP	Insect rearing	AMCD	Albumin	Ae. aegypti	Olivia Sypes
2021/006	Peper	DNW Global	GLP	Bio-Efficacy of REXCU-S as a Larvicide Against Three Species of Mosquito	AMCD	REXCU-S	mosquitoes	Aryaprema, Blore, Sypes, Ward
2021/007	Peper	Internal	non-GLP	Evaluate the educational focus of vector-borne diseases	AMCD	Survey	N/A	Steck
2021/008	Peper	Internal	non-GLP	Evaluation of trap design	AMCD	Longray trap	Ae. aegypti	Ward
2021/009	Peper	Internal	non-GLP	Evaluate the efficacy of BG Counters	AMCD	BG Counter	Ae. aegypti	Ward
2021/010	Peper	Herb Nyberg	non-GLP	Detection of hemoglobin in mosquitoes	AMCD	abcam assay	Toxorhynchites	
2021/011	Peper	Internal	non-GLP	Stability of chicken serum	AMCD	ID-Vet	Serum	Ward
2021/012	Peper	Internal	non-GLP	Development of in-house IR assay	AMCD	PCR	Ae. aegypti	
2021/013	Blore	BigShot	non-GLP	Insecticide efficacy	AMCD	BigShot nanoformulation	Ae. aegypti	Olivia Sypes
2021/014	Farooq	Internal	non-GLP	Testing methodology assessment	AMCD	Testing protocol configuration	mosquitoes	Kai Blore

2021/014	Farooq	Internal	non-GLP	Testing methodology assessment	AMCD	Testing protocol configuration	mosquitoes	Kai Blore
2021/015	Qualls	Westham	Non-GLP	Testing Production Run	AMCD	ATSB product	Ae. aegypti/Cx. quinqs	Kai Blore, Olivia Sypes
2021/016	Blore	Internal	non-GLP	Colony fitness test	AMCD		Ae. aegypti	Olivia Sypes
2021/017	Farooq	Onedrings	non-GLP	Evaluation of contact repellents for dose response	AMCD	Decanonic Acid	Ae. aegypti	Kai Blore, Olivia Sypes
2021/018	Farooq	BIGSHOT	non-GLP	Evaluation of BIGSHOT Nanopesticide as repellent for ticks	AMCD	BigShot nanoformulation	Lone Star Ticks	Lea Bangonan, Alexis Middleton
2021/019	Farooq	BIGSHOT	non-GLP	Evaluation of BIGSHOT Nanopesticide as acaricide	AMCD	BigShot nanoformulation	Lone Star Ticks	Lea Bangonan, Alexis Middleton
2021/020	Farooq	Internal	non-GLP	Thermal Fogger to apply adulticide and larvicide as mixture	AMCD	Aqualuer, VectoBac 12AS	Ae. aegypti	Whitney, Laryssa, Steven
2021/021	Peper	Internal	non-GLP	Weekly WNV sentinel chicken testing	AMCD	ID-Vet ELISA Kit	Chickens	Ward
2021/022	Peper	Internal	non-GLP	Weekly arboviral mosquito pool testing	AMCD	TaqPath Master Mix	Mosquitoes	Ward
2021/023	Qualls	Central Life Sciences	non-GLP	Spatial candle evaluation in screened enclosures	AMCD	Candles	Ae.aegypti; An. Quads; Cx. quinqs	Blore, Sypes, Farooq
2021/024	Qualls	Central Life Sciences	non-GLP	Larvicide study	AMCD	Bti/Methoprene	Ae.aegypti	Blore, Sypes, Peper
2021/025	Qualls	Woostream	non-GLP	Attractant Study	AMCD	Attractants	Ae. albopictus	Blore, Sypes



## Breakdown of Work Load

- 9/25 were internal projects—most of the projects are sponsored
- 12 publications in 2021 from grant/sponsored related projects
- 4 published already in 2022 related to grant/sponsored projects
- The Master List does not list grant related work—which comprises Dr. Vindyha's 40 hours a week with the DOD grant and SIT grant
- 3 Biological Technicians supported on grants



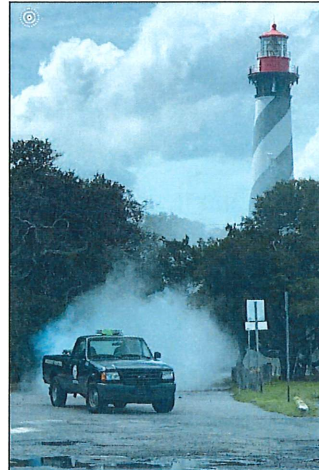
GRANTS 2021

## Establishing Mosquito Control Action Thresholds

(funded by Armed Forces Pest Management Board/Department of Defense) PI: Dr. Whitney Qualls

### Broad objective:

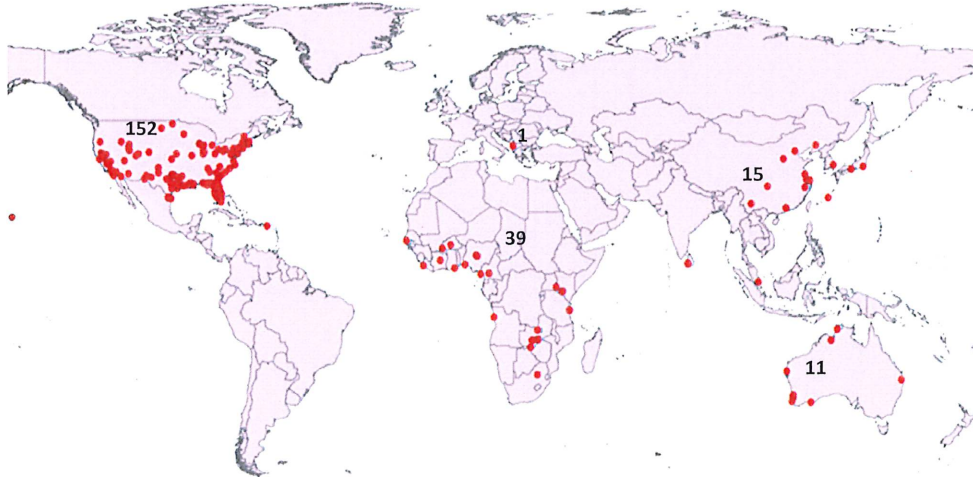
To establish evidence-based action thresholds for mosquito control in different geographic regions in the world



### **Specific aims:**

1. To identify action thresholds used by mosquito control in different geographical regions
2. To develop statistical models for action thresholds using AMCD historical data
3. To perform real-time validation of the developed models

224 responses from across the world (5 continental regions)



Distribution map of responded mosquito control programs from different continental regions and US military units (6)

## Modeling

### Main Objective:

Use AMCD mosquito surveillance records to build models and evidence-based action thresholds for mosquito control that better guide mosquito management decisions of deployed personnel.

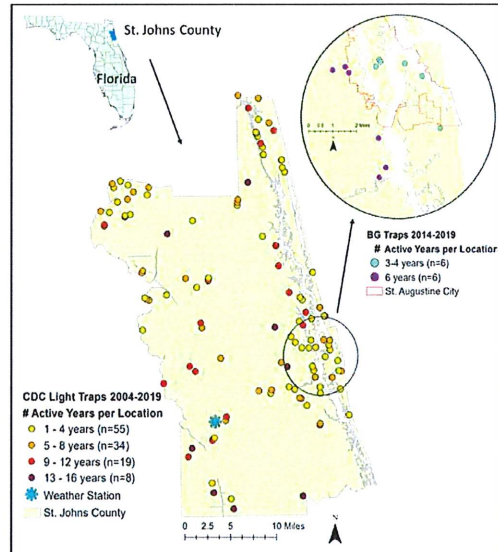
Part 1: Determine key variables for predicting optimal initiation of mosquito control using AMCD historical records and public climate data (**in progress**).

Part 2: Optimize a proactive and generalizable action threshold for controlling mosquito genera of public health concern (**upcoming**).



## ✓ Data preparation: Mosquitoes & Climate

- Reformatted AMCD database's historical surveillance records
  - CDC light traps: 2004-2019
  - BG traps: 2014-2019
  - Adult female counts
- Found local weather station with daily climate values 2004-2019
  - Rainfall (total)
  - Temperature (ave, min, max)
  - Relative humidity (ave)



## ✓ Modeling

- Grouped key species by genera/habitat
  - Container - *Aedes aegypti*, *Aedes albopictus*
  - Floodwater - *Aedes atlanticus*, *Aedes informatus*
  - Saltmarsh - *Aedes taeniorhynchus*, *Aedes sollicitans*
  - Standing water - *Culex nigripalpis*, *Culex quinquefasciatus*
  - Anopheles - *Anopheles crucians*
  - Total Mosquitoes – all 40+ species in CDC LT
- Tested climate parameters on ability to predict mosquito trap counts by week
  - Grouped mosquito and climate values by epiweek (Mon-Sun)
  - Lagged climate values by 1-3 weeks
- Found key variables for each species group and built statistically significant models

Species Model	Predictor
Container	TMIN1
	PRCP2
Total Mosquitoes	Epiweek
	PRCP2
Floodwater	PRCP2
	TMAX3
Saltmarsh	Epiweek
	TMIN3
Standing water	PRCP2
	Epiweek
Anopheles	RH1
	Epiweek

## ✓ Validation

- Collected mosquito and climate data from 2020 & 2021 seasons
- Used same climate parameters of models created with 2004-2019 data
- Results:
  - The models did not accurately predict the mosquito numbers in 2020-2021
  - This may be due to:
    - Change in annual climate trends from 2004-2021; average annual temperature has significantly increased
    - Treatment and control missions confounding natural population trends

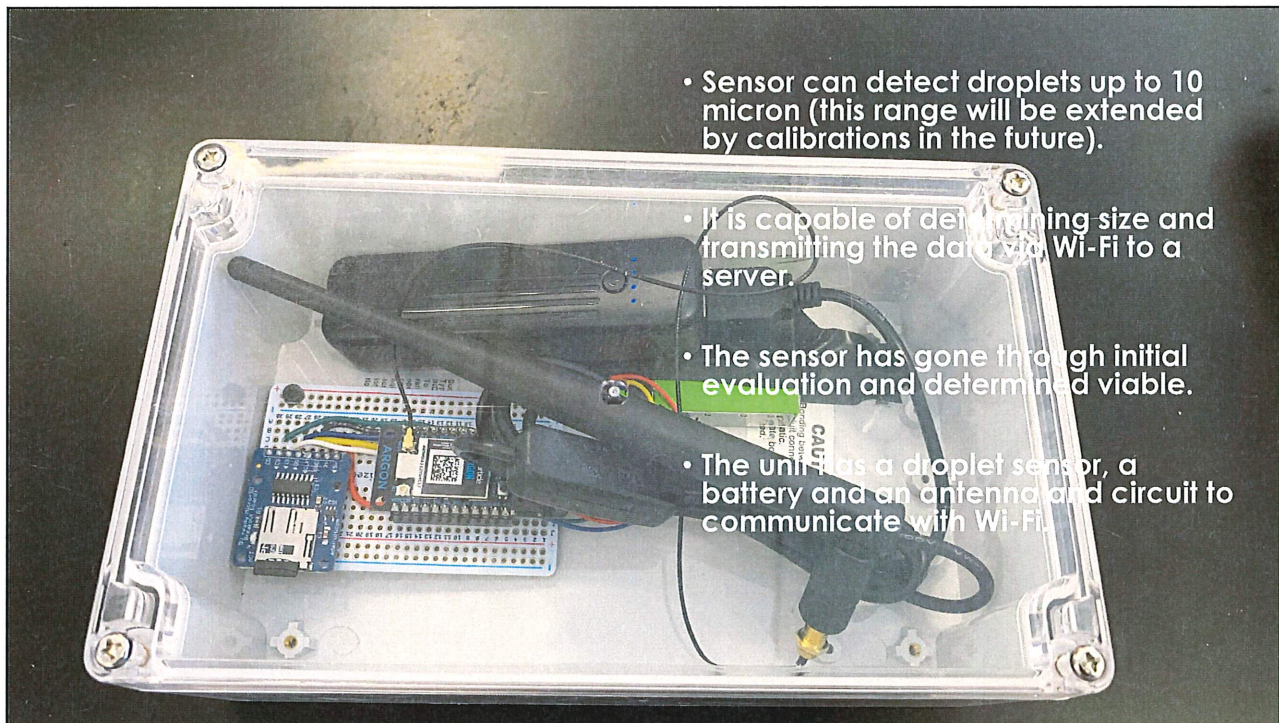
## Takeaway and Future Steps

- Incorporate more focused climate variables
  - Describe weeks by #Hot and #Wet days
  - Hot – temp >  $\underline{X}$  degrees
  - Wet– rainfall >  $\underline{X}$  inches
  - Will try different variations of  $\underline{X}$  to optimize the climate threshold
- Incorporate absence/presence of mosquito control
  - Compare pre- and post- trap collections in zones that received ground adulticide treatments (available data - 2016-2021 seasons)
  - Quantify the effectiveness of AMCD mosquito control
- Suggest guidelines for deployed personnel programs based off the model findings and known limitations from these analyses
  - Manuscript in progress



## CDC Broad Agency Announcement (BAA)

- *Smart Bio-Assay Cage Development for Evaluation of Efficacy of Mosquito Control Adulticides—2 year grant*
- Collaboration with University of Florida, Department of Electrical and Computer Engineering—PI: Dr. William Eisenstadt
- Project has three main objectives:
  - to develop a sensor that evaluates the properties of insect spray aerosols,
  - to develop a sensor that records environmental information at spraying time such as temperature, humidity, timestamp and location
  - to develop a sensor the relays information wirelessly to a cell phone or a computer.



- Sensor can detect droplets up to 10 micron (this range will be extended by calibrations in the future).
- It is capable of determining size and transmitting the data via Wi-Fi to a server.
- The sensor has gone through initial evaluation and determined viable.
- The unit has a droplet sensor, a battery and an antenna and circuit to communicate with Wi-Fi.



## Troubleshooting

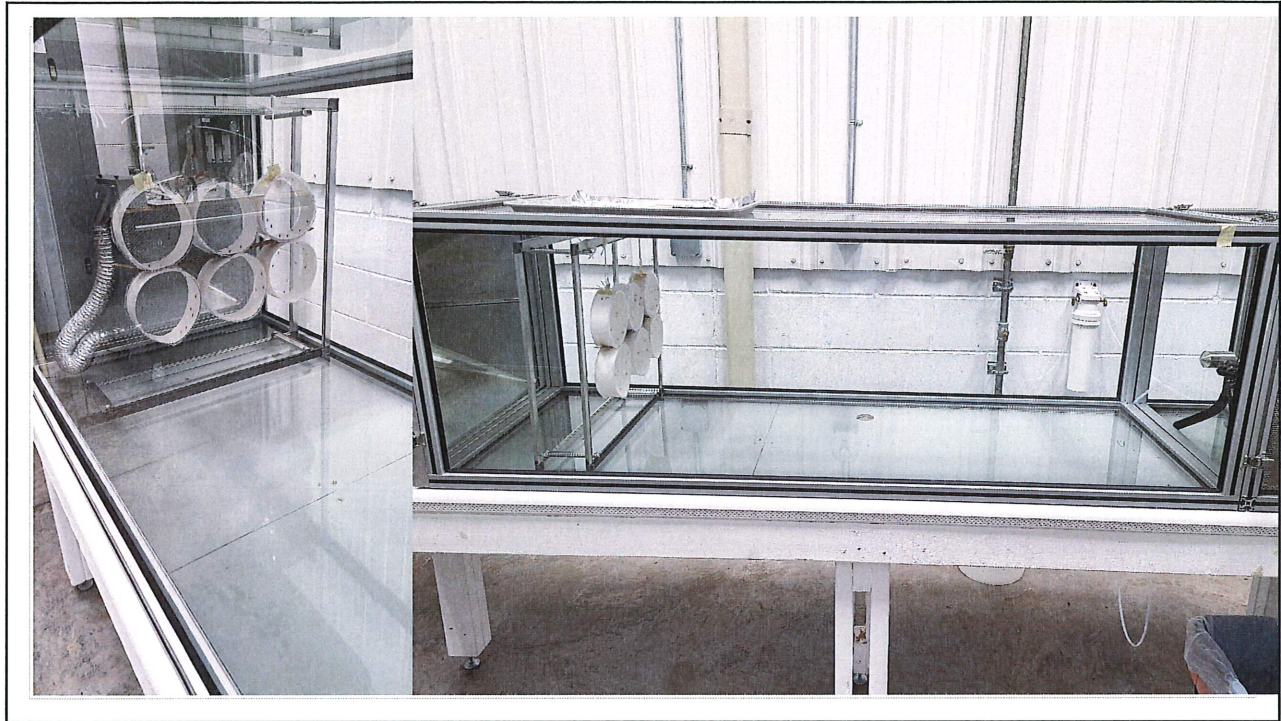


- The router has been tested to provide required Wi-Fi strength required at all 9 test locations in our test field covering an area of 300 ft x 300 ft.
- The sensors have been tested at three of the nine test site locations in the test field to determine if they still successfully communicate with the server using the field Wi-Fi.
- During the latest evaluation, some interruptions in communication were observed.

## Florida Department of Agriculture and Consumer Services

- Evaluation of Nanoparticle encapsulated permethrin formulations against three species of adult mosquitoes: *Aedes aegypti*, *Culex quinquefasciatus*, and *Anopheles quadrimaculatus* –2 year grant
- Collaboration with University of Florida Department of Entomology—PI: Dr. Rebecca Baldwin
- Project has two main objectives:
  - Evaluate the efficacy of nano-encapsulated permethrin adulticide formulations against mosquitoes
  - Compare efficacy of nano-encapsulated permethrin formulations against resistant and non-resistant strains of *Ae. aegypti*





## Florida Department of Agriculture and Consumer Services

- *Operational Sterile Insect Technique for Innovative Aedes aegypti* Control in Downtown St. Augustine, FL –2 year project
- Collaboration with University of Florida Department of Entomology  
PI: Dr. Dan Hahn & USDA-CMAVE
- Project has one main objective:
  - Evaluate *Aedes aegypti* population suppression using SIT



**Two sites:** Intervention site (Downtown)  
Control site (West King Area)

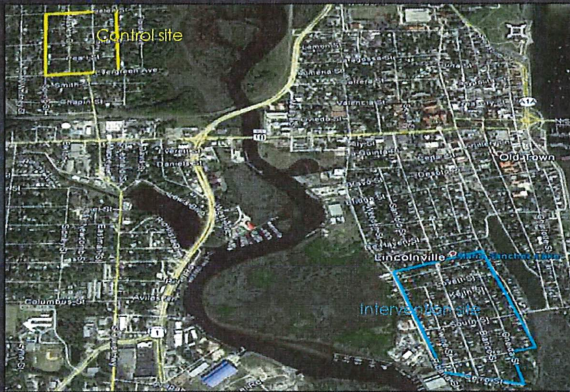
**Aedes aegypti surveillance :**

from Oct-Dec 2019-

- 24 BG traps in each site – twice a week
- 24 Ovi-traps in each site – once a week

since January 2020-

- 24 BG traps in each site – once a week
- 34 Ovi-traps in each site – once a week



**Actual suppression releases** - 45 release points – one at each 100 ft distance  
 started 4<sup>th</sup> March 2020  
 twice a week  
 completed only 5 releases and stopped due to COVID-19



Multiple release points in the intervention site

Restarted – 15<sup>th</sup> July 2020

- twice a week (every Wednesday and Friday)
- target - to release ~ 50,000 mosquitoes each week
- completed 14 releases/7 weeks

Ended—November 2021

Conducted 116 mosquito releases



## Where we are now

- We have completed 2 years of operational field work
- Data in process of being analyzed
- Building an SIT Program



## SPONSORED PROJECTS 2021



## Sponsor Collaborations

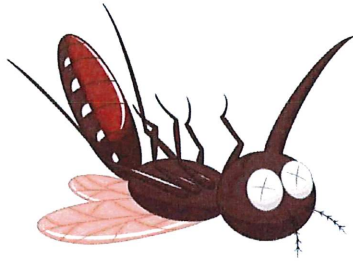
- Central Life Sciences—spatial repellent evaluations, novel larvicide product evaluations, novel adulticide evaluations
- Onedrings repellent evaluations
- DNW Global—GLP Larvicide efficacy evaluation
- PreVasive—adulticides and repellent evaluations for ticks and mosquitoes
- USDA—repellent evaluations
- Woodstream—attractant, repellent and trap evaluations
- Mosquito Mate

## GLP Study Bio-Efficacy of REXCU-S® as a Larvicide

- REXCU-S® formula was first introduced in the 1950's as an algacide and bactericide and has since expanded its use as an agricultural fungicide.
- REXCU-S® is a clear blue liquid, odorless and tasteless, certified by the National Sanitation Foundation (NSF/ANSI Standard 60) safe for drinking water and registered by the EPA (reg. no. 92686-1).
- Preliminary studies on  $\text{CuSO}_4 \cdot \text{H}_2\text{O}$  as a larvicide suggest it may be effective even at low concentrations.

## Bio-Efficacy of REXCU-S as a Larvicide Against Three Species of Mosquitoes

- 7 replicates of each species/concentration were conducted
- Mortality was observed at 24, 48, and 72 hours
- LD<sub>50</sub> and LD<sub>90</sub> were calculated for each species at each mortality point



## Bio-Efficacy of REXCU-S as a Larvicide Against Three Species of Mosquitoes

- Larval bioassays were conducted from October 11<sup>th</sup> 2021 – October 30<sup>th</sup> 2021
  - 1.00ppm
  - 1.30ppm
  - 2.5ppm
  - 5.00ppm
  - 15.0ppm
  - Neg control (water)
  - Pos control (0.001ppm BTI)
- Species tested
  - *Aedes aegypti*
  - *Anopheles quadrimaculatus*
  - *Culex quinquefasciatus*





## Bio-Efficacy of REXCU-S as a Larvicide Against Three Species of Mosquitoes

- Positive controls had 100% mortality after 24 hours
- Negative controls had minimal mortality - <4.3% after 72 hours

### *Aedes aegypti*

Hours	LC <sub>50</sub>	LC <sub>90</sub>
24	23.79	60.84
48	14.05	35.92
72	10.49	33.9

### *Anopheles quadrimaculatus*

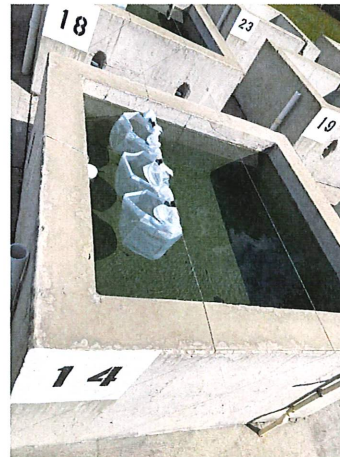
Hours	LC <sub>50</sub>	LC <sub>90</sub>
24	18.6	79.35
48	4.27	25.3
72	1.3	2.94

### *Culex quinquefasciatus*

Hours	LC <sub>50</sub>	LC <sub>90</sub>
24	2.97	6.88
48	1.53	2.94
72	0.98	1.74

## Bio-Efficacy of REXCU-S as a Larvicide Against Three Species of Mosquitoes

- Next steps
  - Semi-field evaluation using the larval tanks





THANK YOU TO AMCD STAFF AND  
COMMISSIONERS FOR CONTINUED SUPPORT OF  
THE APPLIED RESEARCH PROGRAM



**New Business**

**#1**



# Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, Florida 32092

PH: (904) 471-3107 • Fax (904) 471-3189 • Web Address: [www.amcdsjc.org](http://www.amcdsjc.org)

## 2022 MEMO

DISTRICT DIRECTOR

*Dr. Rui-De Xue*



BOARD OF COMMISSIONERS:

*Jeanne Moeller, Chairperson*

*Trish Becker, Vice-Chairperson*

*Gayle Gardner, Secretary/Treasurer*

*Catherine Brandhorst, Commissioner*

*Gina LeBlanc, Commissioner*

TO: Board of Commissioners & Dr. Rui-De Xue, Director

FROM: Scott Hanna, CPA

DATE: April 14, 2022

RE: Discussion and Approval of COLA for FY 22/23 Budget

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Research of data, via the Bureau of Labor Statistics (CPI) , USDA, FHFA, the Media, and real world experience, dictates approving a COLA of 7% for the Fiscal Year 2022/2023.



**Transmission of material in this release is embargoed until  
8:30 a.m. (ET) March 10, 2022**

USDL-22-0415

Technical information: (202) 691-7000 • [cpi\\_info@bls.gov](mailto:cpi_info@bls.gov) • [www.bls.gov/cpi](http://www.bls.gov/cpi)  
Media Contact: (202) 691-5902 • [PressOffice@bls.gov](mailto:PressOffice@bls.gov)

### CONSUMER PRICE INDEX – FEBRUARY 2022

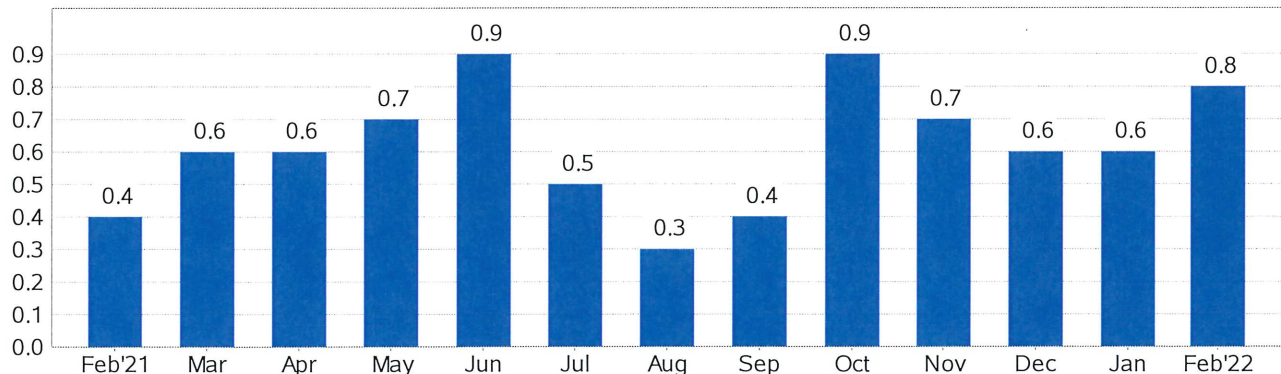
The Consumer Price Index for All Urban Consumers (CPI-U) increased 0.8 percent in February on a seasonally adjusted basis after rising 0.6 percent in January, the U.S. Bureau of Labor Statistics reported today. Over the last 12 months, the all items index increased 7.9 percent before seasonal adjustment.

Increases in the indexes for gasoline, shelter, and food were the largest contributors to the seasonally adjusted all items increase. The gasoline index rose 6.6 percent in February and accounted for almost a third of the all items monthly increase; other energy component indexes were mixed. The food index rose 1.0 percent as the food at home index rose 1.4 percent; both were the largest monthly increases since April 2020.

The index for all items less food and energy rose 0.5 percent in February following a 0.6-percent increase the prior month. The shelter index was by far the biggest factor in the increase, with a broad set of indexes also contributing, including those for recreation, household furnishings and operations, motor vehicle insurance, personal care, and airline fares.

The all items index rose 7.9 percent for the 12 months ending February. The 12-month increase has been steadily rising and is now the largest since the period ending January 1982. The all items less food and energy index rose 6.4 percent, the largest 12-month change since the period ending August 1982. The energy index rose 25.6 percent over the last year, and the food index increased 7.9 percent, the largest 12-month increase since the period ending July 1981.

**Chart 1. One-month percent change in CPI for All Urban Consumers (CPI-U), seasonally adjusted, Feb. 2021 - Feb. 2022**  
Percent change



**New Business**

**#2**



# Anastasia Mosquito Control District of St. Johns County

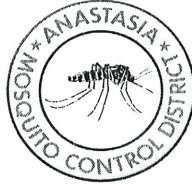
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## 2022 MEMO

DISTRICT DIRECTOR

Dr. Rui-De Xue



BOARD OF COMMISSIONERS:

Jeanne Moeller, Chairperson  
Trish Becker, Vice-Chairperson  
Gayle Gardner, Secretary/Treasurer  
Catherine Brandhorst, Commissioner  
Gina LeBlanc, Commissioner

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Commissioners

DATE: April 6, 2022

RE: FY22/23 budget instruction and Board direction

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Based on the TRIM law and regulation, the Board of Commissioners needs to approve the work plan budget and tentative millage rate at July 14's Board meeting. The submission deadline of District work plan budget to the Department of Agriculture and Consumer Service is July 15. Please let us know your plan and what you need for the FY22/23 budget.

The District budget process schedule:

Collection of needed lists from supervisors, managers, and Board members by the end of April.

Staff works out the budget draft books and deliveries the draft books on May 12.

The Board of Commissioners study and input drafted budget at June 9's Board meeting.

The Board of Commissioners discuss and approve budget and tentative millage rate at July 14's board meeting.

The Board has more time to discuss and input the budget and millage rate with staff before the public hearing in September.

The Board holds the 1<sup>st</sup> public hearing about budget and millage rate, September 15 at 5:30pm.

The Board holds the final public hearing about budget and millage rate, September 29 at 5:30pm.

The DACS certified budget deadline is September 30.

Thanks for your support.

# Reports

Director report (March 2022)

**Program Management:**

**Customer & professional service and service request process:** AMCD answered 199 service requests. Staff reviewed > 4 manuscripts for several professional journals and hosted the 17<sup>th</sup> workshop.

**Surveillance:** Salt march mosquito larval survey has been started. A small population of flooding water mosquito and midge population in several areas outbreak. AMCD continued BG sentinel traps with BG lures and dry ice and ovitraps for *Aedes* mosquito surveillance once a week after the holidays. BG traps collected 572 adult mosquitoes (major species were *Culex*).

**Ground and aerial operation:** Positive larval dips were 305 and MCT treated larvae for 125 times for 328 acres by ground application. Conducted barrier spraying 1 time for 0.1 acre. Two helicopter annual maintenances have been done and granular larvicide system has been calibrated.

**Applied research:** CDC smart cages, DoD, and DACS's grant projects have been continued. GLP project about larvicide and a new larvicide have been scheduled for semi-field evaluation. A new larvicide has been tested in the laboratory. A new formulation of insect repellents has been tested in the laboratory.

**Education:** Three Board members and 8 employees attended the AMCA and 8 joined as volunteers. Face book, twitter, and website have been updated. All employees and two Board members attended the 17<sup>th</sup> workshop and 7 staff gave presentations at the workshop.

**Business Management & Administration:**

**Serve to the Board of Commissioners:** Staff prepared for Mar 10's Board meetings, minutes, and the AMCA travel arrangement.

**Budget and Auditor:** Auditor finished FY21/22 auditor and will give the report for the Board on May meeting.

**Contract:** Education building about media is under process. The SIT building site has been marked.

**Insurance:** The helicopter insurance for the incident has been closed.

**HR:** An intern student (master degree in Public Health) from FSU has been hired and starts from May and one intern student finished required intern hours and left AMCD on March 18.

**Meeting:**

Mar 1-3. Attended AMCA annual meeting and held AMCD symposium and gave a talking about overview of AMCD programs. Jacksonville, FL. Received the award of medal of honor and start the service as Vice President of the AMCA.

Mar 4. Attended AMCA Board meeting in AM. Host two visitors from California in PM.

Mar 6. Met Dr. Gunter Muller about project progress.

Mar 7 & 8. Met Dr. Muller and attend ATSB experiment. Review manuscript for Frontier for Sciences.

Mar 9. Noon. Met Commissioner Mrs. Moeller and Dr. Muller about malaria project in Mali.



Mar 10. 5pm. Attended Board meeting.

Mar 11. Check ATSB testing results.

Mar 14 & 15. Worked o annual program report proof reading and correction.

Mar 16. Attended FSU's intern student interview.

Mar 17. 2:15pm. Tele conference with Mr. Flowers and Dr. Arypreman about ATSB station legal issue.

Mar 18. 3pm. Attended UF's mosquito seminar.

Mar 21. Attended ESA vector control group meeting.

Mar 22. 10am. Held staff meeting about workshop. Noon. Interview intern student from UF. 1pm. Interviewed by St. Augustine Record reporter and hosted their visiting and tour.

Mar 23. 1pm. Attended UF Ph.D. student defense about sublethal insecticides against mosquitoes.

Mar 24. Attended insecticide resistance global virtual meeting. Noon. Attended AMCA Board executive committee meeting.

Mar 25. Reviewed manuscript for Scientific Report. 3pm. Attended UF seminar.

Mar 28. Prepared for 17<sup>th</sup> workshop program agenda and meeting items.

Mar 29. Organized and moderated workshop morning session and gave a presentation about prospects and challenges for ATSB against mosquitoes.

Mar 30-31. Attended workshop and met many professional and collaborators.

# Treatment Summary

From Date : 03-01-2022

To Date : 03-31-2022

Zone : All

Material : All

Task : All

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Material	Amount	Area Treated	Application Rate	Times
Altosid WSP	1764 ea	5.47 acre	322.68 ea / acre	41 times
Altosid XR	203 ea	0.47 acre	435.54 ea / acre	11 times
Altosid XRG	190 lb	31.67 acre	6 lb / acre	3 times
B.i. Briquets	360 ea	0.83 acre	435.54 ea / acre	7 times
Cocobear	188 fl oz	0.49 acre	384.02 fl oz / acre	6 times
Duet 50%	416 fl oz	264.97 acre	1.57 fl oz / acre	2 times
Sustain MBG	310 lb	41.33 acre	7.5 lb / acre	8 times
Talstar P	0.03 gal	0.09 acre	0.34 gal / acre	1 times
VectoBac 12AS	3968 fl oz	248 acre	16 fl oz / acre	49 times

# Task Time Summary

From Date : 03-01-2022

To Date : 03-31-2022

Zone : All

Employee Name : All

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Task Time Summary			
Task	Total Time	Total Timesheets	Total Time
Administrative	1130:19 hrs	177	
Aerial Maint	429:00 hrs	163	
Aerial Survey	35:45 hrs	13	
AM Briefing	32:35 hrs	99	
Assist	46:55 hrs	11	
Building & Grounds Work	497:11 hrs	167	
Chicken Program	51:45 hrs	18	
Computer Repair	151:30 hrs	23	
Daily Paperwork	77:24 hrs	139	
Field Experiment	12:30 hrs	8	
Fish Placement	02:25 hrs	1	
Fish Program	07:30 hrs	6	
Fog Mission Serv Req	02:21 hrs	13	
Ground Adulticide	00:30 hrs	1	
Ground Larvicide	204:16 hrs	125	
Ground Site Inspection	455:45 hrs	282	
Hand Adulticide	16:56 hrs	44	
Insectary	233:00 hrs	36	
Inventory	12:02 hrs	5	
Lab Experiment	55:30 hrs	15	
Mechanics Time	243:58 hrs	27	
Meeting	370:45 hrs	89	5660:55 hrs
Molecular Lab Work	233:15 hrs	36	
Mosquito Trap BG	19:00 hrs	4	
Mosquito Trap ID	08:30 hrs	4	
Mosquito Traps Misc	22:30 hrs	9	
Produce Papers & Programs	294:00 hrs	52	
Project Research	164:45 hrs	29	
Public Relations	50:07 hrs	10	
Public School Program	05:30 hrs	1	
Resupplying Trucks	22:10 hrs	37	
Supervisory	67:32 hrs	18	
Training Classroom	275:24 hrs	31	
Training Field	12:55 hrs	2	
Travel	36:45 hrs	6	
Trim Trails	01:35 hrs	4	
Vehicle Maintenance	25:35 hrs	22	
Administrative Leave	09:30 hrs	1	
Annual Leave	211:15 hrs	43	
Leave Without Pay	08:45 hrs	2	
Sick Leave	122:00 hrs	20	



<b>BG</b>			
<b>3/1/2022</b>			
<b>To :</b>			
<b>3/31/2022</b>			
<b>Trap Type :</b>			
<b>BG</b>			
	<b>2022 03</b>		
<b>Species Name</b>	<b>8</b>	<b>15</b>	<b>Species Total</b>
Ae aegypti	11	20	31
Ae albopictus	1	12	13
Ae atlanticus	0	0	0
Ae canadensis	0	0	0
Ae eggs	0	0	0
Ae fulvus pallens	0	0	0
Ae infirmatus	10	1	11
Ae mitchellae	0	0	0
Ae signifera	0	0	0
Ae sollicitans	0	0	0
Ae taeniorhynchus	0	0	0
Ae triseriatus	5	0	5
Ae vexans	0	0	0
An atropos	0	0	0
An bradleyi	0	0	0
An crucians	76	22	98
An perplexens	0	0	0
An punctipennis	0	0	0
An quadrimaculatus	2	0	2
An walkeri	0	0	0
Cq perturbans	0	0	0
Cs inornata	0	0	0
Cs melanura	0	0	0
Cx coronator	0	0	0
Cx eraticus	5	0	5
Cx nigripalpus	17	11	28
Cx quinquefasciatus	229	205	434
Cx restuans	1	0	1
Cx salinarius	15	25	40
Cx territans	0	0	0
Ma dyari	0	0	0
Ma titillans	0	0	0
Or signifera	0	0	0
Ps ciliata	0	0	0
Ps columbiae	0	0	0
Ps cyanescens	0	0	0
Ps ferox	0	0	0
Ps howardii	0	0	0
Tx rutilus	0	0	0
Ur lowii	0	0	0
Ur sapphirina	0	0	0
Wy Mitchelli	0	0	0
<b>Daily Total</b>	<b>372</b>	<b>296</b>	<b>668</b>

Malaria vector
WNV/SLE vector
EEE vector
Dengue, yellow fever, chick-v, Zika

# Attachments