

SALT LAKE CITY MOSQUITO ABATEMENT DISTRICT

Executive Director's Report

March 2025

1. Personnel:

| Personnel | |
|-----------|----------|
| Staff | Seasonal |
| 12 | 7 |

| Type of Work | 2025 | 3 - Year Average |
|-------------------------|-----------------|------------------|
| Adulticiding | 0.00 | 0.00 |
| Wetlands / Rural | 18.50 | 24.08 |
| Fish Culture | 49.25 | 33.67 |
| Catch Basins / Gutters | 0.00 | 0.00 |
| Tree Holes | 0.00 | 0.00 |
| Prison | 73.50 | 1.33 |
| Service Request | 0.00 | 0.00 |
| Traps | 37.75 | 15.67 |
| Laboratory | 226.75 | 184.00 |
| Office / Administration | 718.25 | 764.92 |
| Equipment Maintenance | 278.75 | 296.92 |
| Facility Maintenance | 213.50 | 138.58 |
| Training | 280.00 | 189.58 |
| Education | 68.00 | 30.17 |
| Unmanned Aerial System | 10.00 | 0.67 |
| CSU Grant | 15.75 | 29.17 |
| Other Grants | Not Recorded | 0.00 |
| Other / Errands | 44.00 | 66.92 |
| Comp. Time Used | 139.50 | 77.00 |
| Vacation | 54.00 | 104.67 |
| Additional Hours | 0 | 8.00 |
| Holidays | 0.00 | 0.00 |
| Sick Leave | 50.50 | 41.33 |
| Total | 2,278.00 | 2,006.68 |

2. Office/Lab Activities:

- The District hosted the Lakefront Water Management Group annual meeting at the facility on 1 March 2025.
- Executive Director Faraji, Assistant Director White, Laboratory Director Bibbs, Education Specialist Rehbein, and Molecular Biologist Byers attended and presented at the annual American Mosquito Control Association in San Juan, Puerto Rico on 3-7 March 2025.
- The District hosted the Southshore Water Management Group annual meeting at the facility on 8 March 2025.
- Executive Director Faraji and Assistant Director White attended the monthly meetings of the Utah Mosquito Abatement Association on 12 March 2025.
- The District hosted the Northpoint Canal Irrigation Company annual meeting at the facility on 12 March 2025.
- Executive Director Faraji and Assistant Director White attended the biweekly meetings of the Rockies and High Plains Vectorborne Center of Excellence on 12 March 2025.
- Executive Director Faraji and Aerial Operations Supervisor Sorensen attended the weekly meetings of the Owner/Architect/Engineers on 13 March 2025.
- Executive Director Faraji attended and presented at the annual conference of the New Jersey Mosquito Control Association on 18-20 March 2025.

Chris Bibbs, Laboratory Director

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| Mar 3-7 | AMCA: Puerto Rico |
| Mar 10 | Reaching out to Envu on Barricor samples; connecting w/ Kara Gaylor (Lake Co MCD, CA) on capgel feeding/tagging study with <i>Ae. sierrensis</i> ; connecting w/ Luis Chavez on long-term surveillance data analysis project through IU; reviewing heartworm paper draft |
| Mar 11 | Presentation prep for University of Washington (Riffell Lab) |
| Mar 12 | Interview scheduling; wind tunnel modification; searching journals for Tox behavior paper; ATSB presentation prep for AMCD workshop |
| Mar 13 | Seasonal interviews; finishing presentation for Riffell Lab and honey bee presentation for AMCD workshop; treehole data paper planning w/ Amy |
| Mar 14 | Seasonal interviews; drafting Capgel and <i>Toxorhynchites</i> presentations for PBESA |
| Mar 17 | Seasonal interviews; finalizing Riffell lab presentation |
| Mar 18 | Seasonal interviews; review for PLoS Global Health; project collaboration solicit on spatial repellent resistance from Ingrid Chen; resubmitting Tox predation manuscript to Behavioral Ecology (Oxford Press) |
| Mar 19 | Conference call w/ Ingrid Chen on repellent resistance research collaborations; presentation for Jeff Riffel at University of Washington |
| Mar 20 | Anthrone work with Clara and Thomas; presentation prep w/ Nate for Pac Vec; finalizing presentation for ATSB for AMCD workshop; rotator trap planning |
| Mar 21 | Seasonal interviews; presentation submissions for AMCD workshop |
| Mar 24-28 | AMCD:FL arbovirus virus surveillance and mosquito control workshop |
| Mar 31 | ESA:PAB conference SLC |

Michele Rehbein, Education Specialist

- Dr. Rehbein attended a City Nature Challenge Social Media Workshop webinar on 18 March on how to engage the public and get people interested.
 - Dr. Rehbein worked on a presentation for the RaHP Vec Spring Workshop taking place in New Mexico 25-26 March.
 - Dr. Rehbein attended a City Nature Challenge Press & Media Webinar (this will be useful for SLCMAD as well) on 19 March.
 - Dr. Rehbein recorded a presentation for the RaHP VEC spring workshop for 25-26 March, on 24 March.
 - Dr. Rehbein assisted the AMCA L&R committee in sending out invites for the Washington Conference in May, on 26 March.
 - Dr. Rehbein worked on preparing presentations for the Entomological Society of America Pacific Branch meeting and the Utah Public Health Association meetings in April during March.
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- Dr. Rehbein attended the 2025 AMCA Annual Meeting in San Juan, Puerto Rico from 3-7 March and presented two talks during the conference.
 - Dr. Rehbein met with Drs. Faraji, White, Bibbs, and Byers on 10 March to review the AMCA annual meeting.
 - Dr. Rehbein met with Pakeeza Azizpor through the EnSoc PACT mentorship program on 11 March.
 - Dr. Rehbein met with Ellen Eiriksson from NHMU to discuss planning for the City Nature Challenge on 18 March.
 - Dr. Rehbein attended the AMCA Washington Conference Informational Call on 19 March.
 - Dr. Rehbein attended an AMCA Media Cause meeting on 20 March.
 - Dr. Rehbein attended a JRC TAC meeting on 20 March.
 - Dr. Rehbein attended a Jordan River Commission Event Guide feedback meeting on 24 March.
 - Dr. Rehbein met with Yevgeny Pevzner from Granite School District, who helps with the STEM 360 Initiative, to discuss ways we can collaborate on 24 March.
 - Dr. Rehbein attended an UMAA Spring Workshop planning committee meeting with Dr. White, Tyson Packer, and Steve Schaeffer on 27 March.
 - Dr. Rehbein attended an AMCA national campaign committee meeting on 27 March.
 - Dr. Rehbein attended the EnSoc Pacific Branch meeting on 31 March.

Nate Byers, Molecular Biologist

Prepped new fan design for surveillance season
Provided Neil Vickers with *Cx. pipiens* eggs/1st instar larvae twice

Presented at AMCA, 4 March to 6 March, on SLCMAD's virus testing protocols and surveillance results

Discussed *phragmites* research and control with Ary, Dr. Kristen Healy, Dr. Tanner Sparks, & Dr. Rodrigo Diaz 25 March 25

Had phone calls with Liz Hart (MAD-D), Ryan Lusty (Magna MAD), and Rick Chapoose Jr. (Ute tribe) about their projects for PacVec; various dates

Met with Dr. Norah Saarman (USU), Dr. Steven Su and Ary about larvicide resistance projects & genetic differentiation of *Culex* populations 31 March 25

Brad Sorensen, Aerial Operations Supervisor

Continued work on season Prep
Continue working on helicopter build and set up with Airbus
Continue working on phase 2 development
Attended Verticon event in Dallas
SLC Airport Badge training and renewal
Building new pesticide transport tanks for truck 28
Building flow rate reduction system for T40 (potential ULV testing)
UAS Seasonal Pilot Interviews with Greg

3/3 Tour of facility and UAS operations for Davis Catalyst Center Students
3/5 OAC Meeting
3/5 Lab Foundations meeting with GSH and OAC team
3/10 through 3/13 Verticon 2025 in Dallas
3/19 Airbus Meeting about wACS system in helicopter
3/19 OAC Meeting
3/25 SLC Airport Badge renewal
3/26 OAC Meeting
3/26 Keying meeting with ABS doors and OAC team

Quinten Salt, Urban Field Supervisor

2/20 Pick up 2025 bike team bikes. 6 regular and 1 Ebike
2/10 Take care of fish hatchery, hang new lights and shades

3. Field Data:

Service Requests:

MOSQUITO SERVICE OPPORTUNITIES RECEIVED BY MONTH

| | March | April | May | June | July | Aug. | Sept. | Oct. | Total |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 2024 | 5 | | | | | | | | 5 |
| 3-Year Avg. | 4.00 | 11.33 | 26.33 | 40.00 | 34.00 | 19.33 | 9.67 | 20.33 | 165.00 |

4. Weather:

March's weather was cooler (by 0.2°) and wetter (by 0.65") than normal.

Temperature:

| | Monthly Avg. | Normal | High | Low |
|---------|--------------|--------|------|------|
| January | 32.4° | 31.4° | 58° | 15 ° |
| March | 45.6° | 45.8° | 78° | 25 ° |

<https://www.weather.gov/wrh/Climate?wfo=slc>

Precipitation:

| | Total for Month | Normal | Most in 24 hours | | |
|----------|-----------------|--------|------------------|----|------------------|
| February | 1.36" | 1.30" | 0.63" | on | 20 th |
| March | 2.40" | 1.75" | 0.49" | on | 18 th |

<https://www.weather.gov/wrh/Climate?wfo=slc>

Great Salt Lake (elevation in feet above sea level):

| | Feb 1 | Mar 1 | Apr 1 |
|------|---------|---------|---------|
| 2024 | 4,192.8 | 4,193.8 | 4,194.3 |
| 2025 | 4,192.6 | 4,193.1 | 4,193.4 |

<https://waterdata.usgs.gov/monitoring-location/10010000/#parameterCode=62614&period=P7D&showMedian=true>