

**San Diego Association of Governments (SANDAG)
Memorandum of Understanding (MOU) #5004552**

**Strategic Removal of Invasive Weed Species
*1st Quarter Report - FY 2017-18: Report #11 for Project***

July 1st, 2017 – September 30th, 2017

Project: County of San Diego, Department of Agriculture, Weights & Measures (AWM) –
Strategic Removal of Invasive Weed Species

To: Keith Greer and Sarah Pierce
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Project:

Invasive plants are considered one of the biggest threats to endangered species and their habitats. A strategic plan for managing non-native invasive plant species in San Diego County was completed in 2012 through a SANDAG contract to the Conservation Biology Institute (CBI) (<http://sdmmp.com>). The Invasive Plant Strategic Plan (IPSP) is designed to develop a strategic approach towards the eradication and management of invasive plants in the San Diego region. The IPSP is meant to work in conjunction with the Management Strategic Plan for Conserved Lands in Western San Diego County (MSP) ([Management Strategic Plan](#)).

This Scope of Work will require the contractor to focus on the management of invasive plants identified in Levels 1, 2, and 3 of the IPSP. The following tasks have been identified as necessary to implement this effort:

This quarterly report covers work funded through the SANDAG Contract, which allowed work to occur from July 1st to September 30th 2017.

TASK 1 – Invasive Plant Species Coordinator:

Level of Effort: (25%) of overall contract

Right of Entry (ROE) Work and Coordination With Property Owners:

Coordination with property owners, land managers and AWM crew occurred throughout the quarter.

The coordinator worked on four species at two field sites:

Work tasks included monitoring field crews, assessing treatment success, and mapping and surveying target plants. Multiple sites invaded by five target species were worked on: yellow star thistle, sea lavender, Canary Island Saint John's wort, French broom, and rattle box. This allowed treatments to occur this quarter as well as prepare for treatments next quarter.

Report preparation:

Quarterly report for Q1 FY 2017-18 was prepared. Contract #1 two year project completion report was submitted (combined with 2017-2018 work plan).

Work plan 2017-18:

The work plan for 2017-2018 was submitted (part of contract #1 two year project report).

TASK 2 – AWM: Invasive Plant Level 1 Management

Level of Effort: (<10%) of overall contract.

Level 1 Management Species are Early Detection Rapid Response (EDRR) targets that were **not known to occur** in the county when the IPSP was written (2012).

Crews surveyed and treated, two invasive weed species (carnation spurge and Volutaria knapweed) at four sites this quarter. AWM Integrated Pest Control (IPC) made optimal pesticide applications, protected the natural environment by preventing off-site movement of pesticides, and utilized Best Management Practices (BMPs) that prevented unintentional discharges to surface waters. For each site, IPC followed the following procedures:

1. Identified the pest species to be treated.
2. Reviewed site conditions, such as soil texture, slope, standing water, irrigation or storm drains.
3. Identified and avoided streamside management areas and surface waters to prevent drift and application of pesticides not labeled for aquatic use onto surface waters.
4. Identified most appropriate method of control based on integrated pest management methods, designed to minimize the scale and number of pesticide applications.
5. Applied the least persistent and least toxic pesticide that effectively mitigates the target pest.

Table 1. Summary of treatments performed by AWM on Level 1 species this quarter.

| Scientific Name | Common Name | # of Sites Worked | Acres Surveyed | Acres Treated | Plants Controlled |
|------------------------------|--------------------|-------------------|----------------|---------------|-------------------|
| <i>Euphorbia terracina</i> | carnation spurge | 3 | 3.7 | 0.3 | 300 |
| <i>Volutaria tubiliflora</i> | Volutaria knapweed | 1 | 4.3 | 0.1 | 20 |

***Euphorbia terracina* (carnation spurge):**

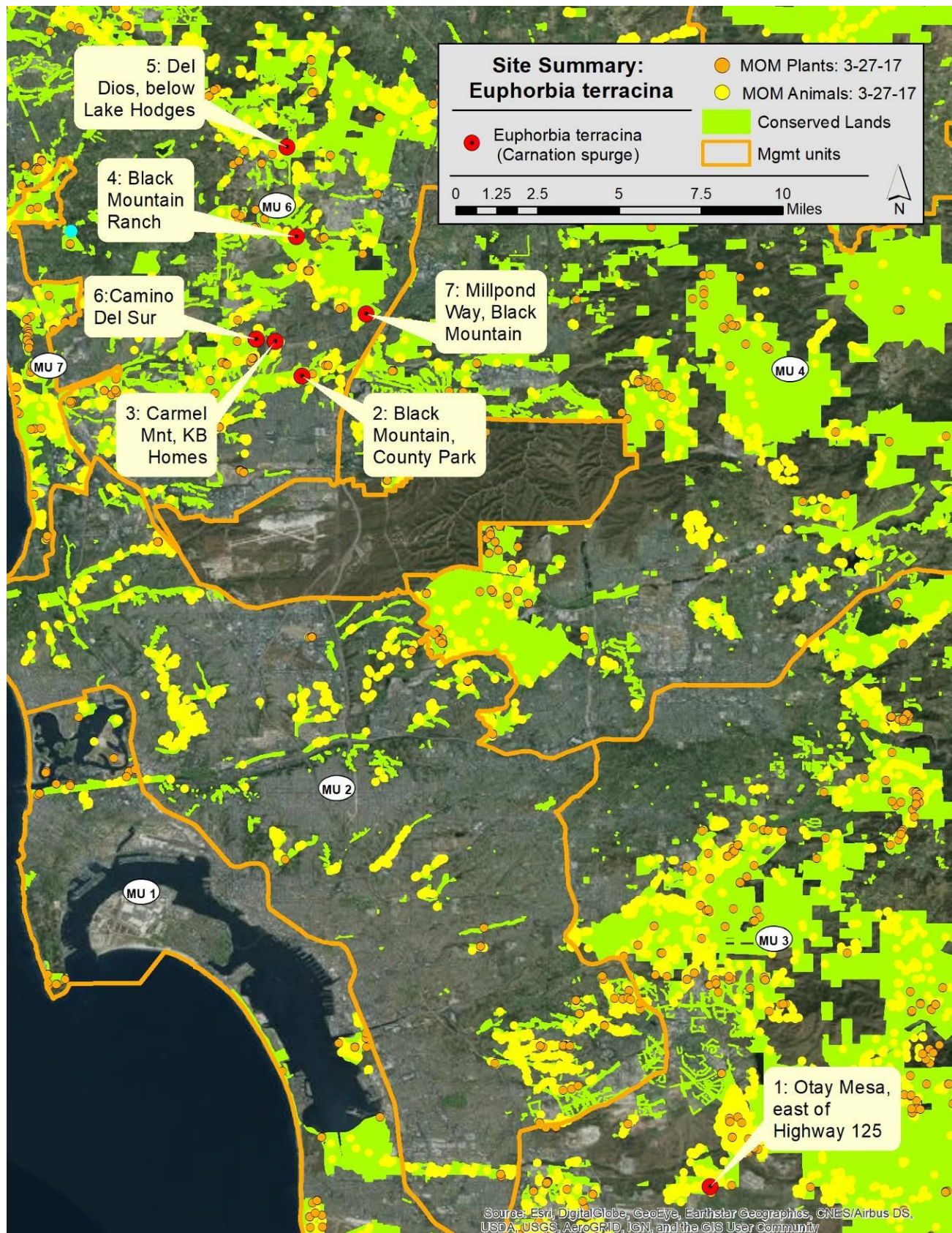
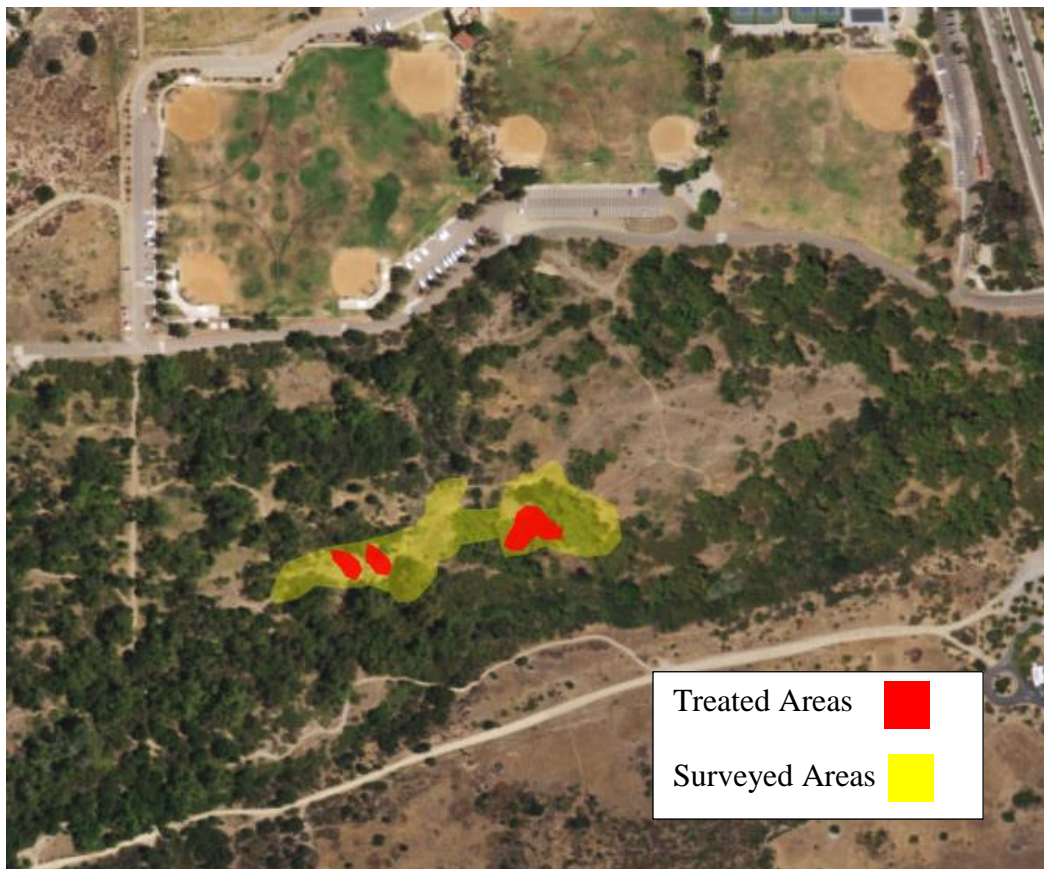


Table 2. Summary of treatments performed by AWM on *Euphorbia terracina* (carnation spurge).

| Work Site | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants Controlled |
|---|------------------|------------------|----------------|---------------|-------------------|
| Site #2, Los Penasquitos Canyon County Preserve (Black Mountain County Park.) | carnation spurge | 1 | 1.0 | 0.1 | 200 |
| Site #3, KB Homes | carnation spurge | 1 | 2.5 | 0.1 | 90 |
| Site #7, Mill Pond | carnation spurge | 1 | 0.2 | 0.1 | 10 |

***Euphorbia terracina* (carnation spurge): Site #2, Los Penasquitos Canyon County Preserve (Black Mountain County Park.)**

Mature plants and seedlings (200) were manually removed. A crew of two individuals worked on 7-5-2017. There has been a reduction in cover (>80%), but there is an extensive seedbank that will likely continue to express itself for some time.



Site #2 **Los Penasquitos Canyon County Preserve (Black Mountain County Park)** : 7-5-2017, 200 plants removed of *Euphorbia terracina*.

***Euphorbia terracina* (carnation spurge): Site #3, KB Homes**

Mature plants and seedlings (90) were manually removed. A crew of two individuals worked on 7-5-2017. There has been a reduction in cover (>80%), but there is an extensive seedbank that will likely continue to express itself for some time.



Site #3 KB Homes: 7-5-2017 90 plants removed of *Euphorbia terracina*.

***Euphorbia terracina* (carnation spurge): Site #7, Mill Pond Way**

Mature plants and seedlings (10) were manually removed. A crew of two individuals worked on 7-7-2017. There has been a reduction in cover (>80%), but there is an extensive seedbank that will likely continue to express itself for some time.



Site #7 Mill Pond Way: 7-7-2017 work, 10 plants removed of *Euphorbia terracina*.

Volutaria tubiliflora, *Volutaria* knapweed:





Table 3. Summary of treatments performed by AWM on Volutaria tubiliflora (Volutaria knapweed).

| Site Name | Common Name | # of Visits | Acres Surveyed | Acres Treated | Plants treated |
|---------------------------------------|--------------------|-------------|----------------|---------------|----------------|
| Site #1: <i>Volutaria tubiliflora</i> | Volutaria knapweed | 1 | 4.3 | 0.1 | 20 |

A follow up re-treatment of this site, the third after the initial treatment in January. A crew of two hand pulled 20 mature plants and seedlings on 7-3-2017. Initial plant density was >50,000 when the site was surveyed summer of 2016. At the time (1-27-17) of the application of a pre/post herbicide (Milestone), an estimated 5,000 plants were at basal growth stage (many more would have sprouted). At the first follow-up treatment (5-4-17), 300 plants were treated. At the second re-treatment (6/6/17), 1,080 plants were pulled. At the third and final re-treatment, 20 plants were pulled. This should greatly reduce Volutaria plant cover next spring. Pre/post emergent will be applied in January 2018 followed by re-treatments as needed.



Site #1 Rice Canyon: 7-3-2017 treatment 20 plants pulled of *Volutaria tubiliflora*.

TASK 3 – AWM: Invasive Plant Level 2 Management.

Level of Effort: (>40%) of overall contract

Level 2 Management Species are EDRR targets that were of limited distribution in the county when the IPSP was written (2012).

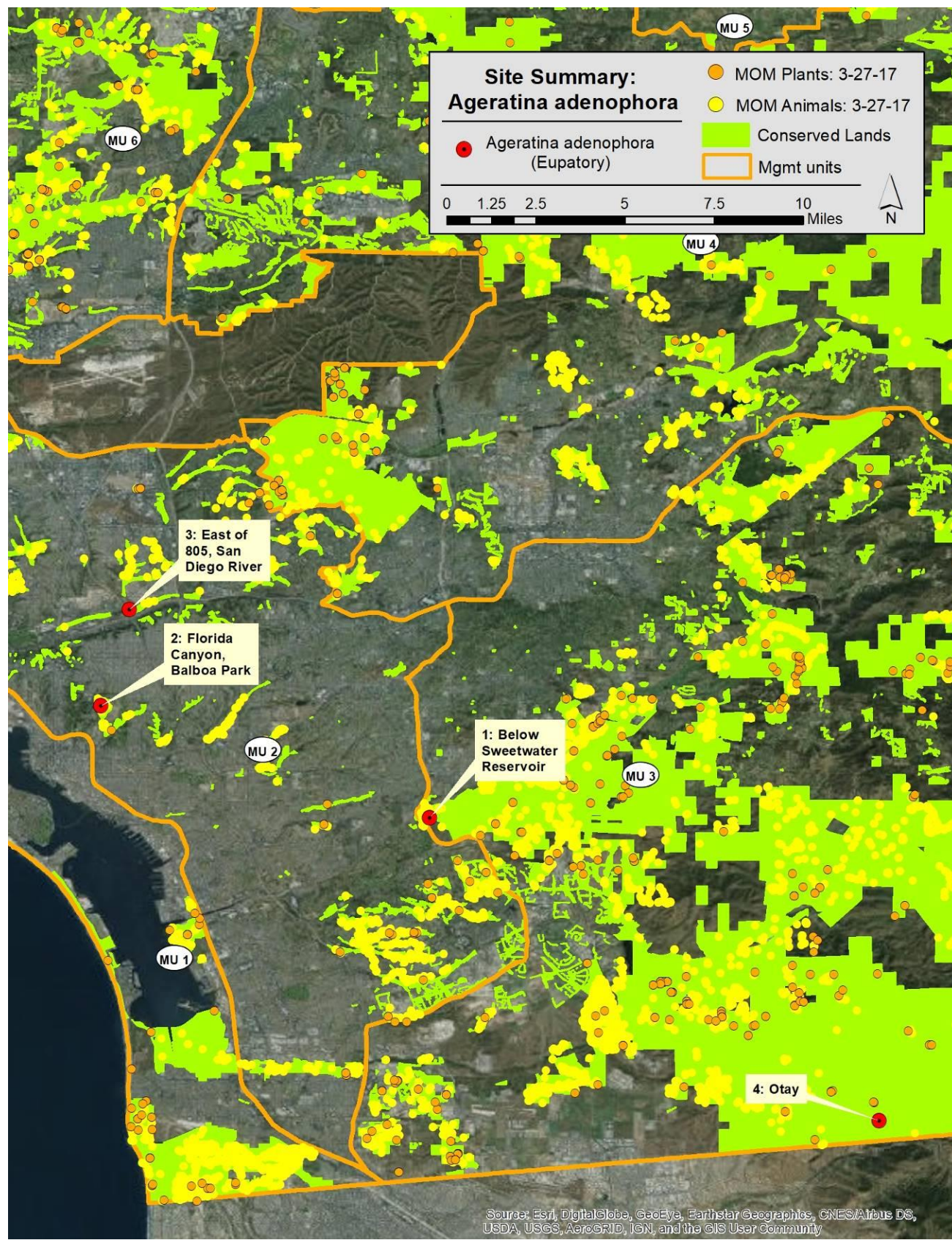
Crews surveyed and treated, six invasive weed species at 15 sites this quarter: Eupatory, yellow star thistle, European sea lavender, Algerian sea lavender, French broom and bridal broom. IPC made optimal pesticide applications, protected the natural environment by preventing off-site movement of pesticides, and utilized BMPs that prevented unintentional discharges to surface waters. For each site, IPC followed the following procedures:

1. Identified the pest species to be treated.
2. Reviewed site conditions, such as soil texture, slope, standing water, irrigation or storm drains.
3. Identified and avoided streamside management areas and surface waters to prevent drift and application of pesticides not labeled for aquatic use onto surface waters.
4. Identified most appropriate method of control based on integrated pest management methods, designed to minimize the scale and number of pesticide applications.
5. Applied the least persistent and least toxic pesticide that effectively mitigates the target pest.

Table 4. Summary of treatments performed by AWM on Level 2 species this quarter.

| Scientific Name | Common Name | # of Sites Worked | Acres Surveyed | Acres Treated | Plants Controlled |
|-------------------------------|-----------------------|--------------------------|-----------------------|----------------------|--------------------------|
| <i>Ageratina adenophora</i> | Eupatory | 1 | 2.0 | 0.2 | 200 |
| <i>Centaurea solstitialis</i> | yellow star thistle | 8 | 45.1 | 1.4 | 4,505 |
| <i>Limonium duriusculum</i> | European sea lavender | 1 | 1.2 | 0.2 | 600 |
| <i>Limonium ramosissimum</i> | Algerian sea lavender | 1 | 1.8 | 0.3 | 750 |
| <i>Genista monspessulana</i> | French broom | 2 | 21.4 | 2.4 | 4,025 |
| <i>Retama monosperma</i> | bridal broom | 2 | 5.7 | 0.6 | 404 |

***Ageratina adenophora* (Eupatory):**

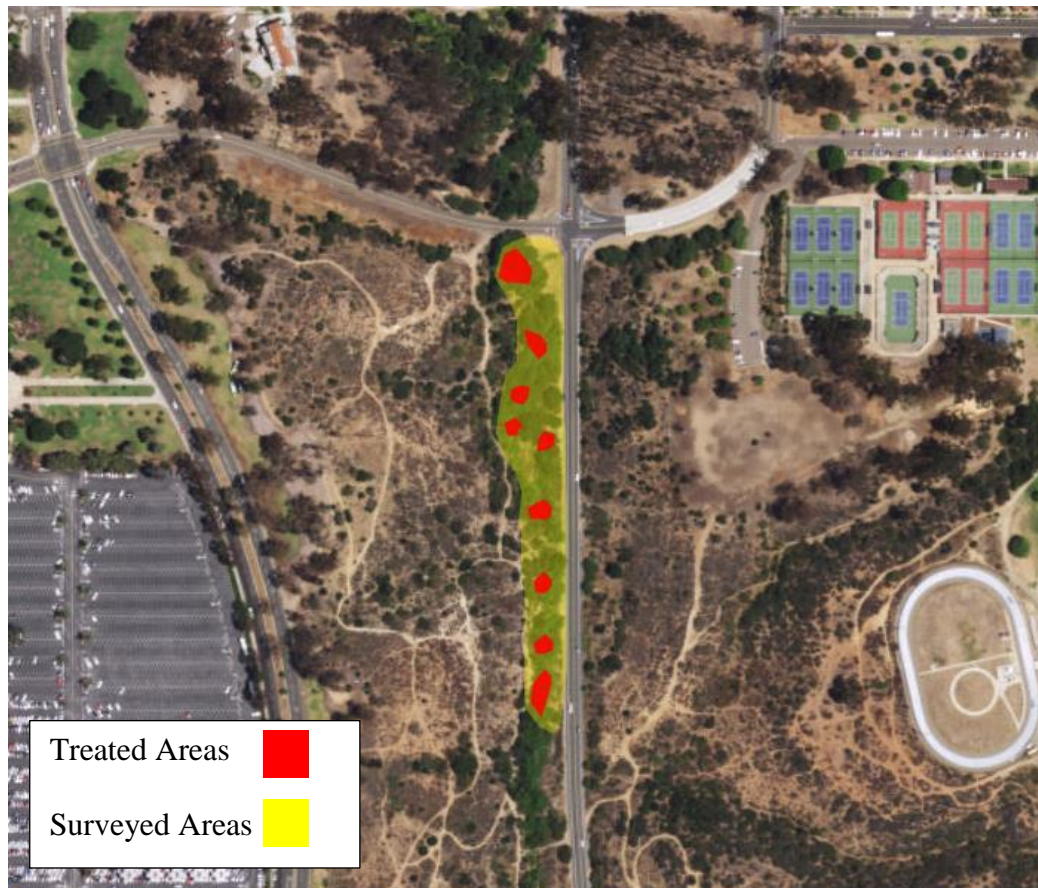


Ageritina adenophora (eupatory): Site #2 Florida Canyon, Balboa Park:

Table 5. Summary of treatments performed by AWM on Ageritina adenophora (eupatory).

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|-------------------------------------|-------------|------------------|----------------|---------------|----------------|
| Site #2 Florida Canyon, Balboa Park | Eupatory | 1 | 2.0 | 0.2 | 200 |

Plants were treatable, so they were controlled with herbicide (Triclopyr). A crew of two individuals visited the site on 9-27-2017. Cover was low, but there were scattered plants.



Site #2: 9-27-2017 work, 200 plants treated of *Ageritina adenophora*.

Centaurea solstitialis, yellow star thistle:

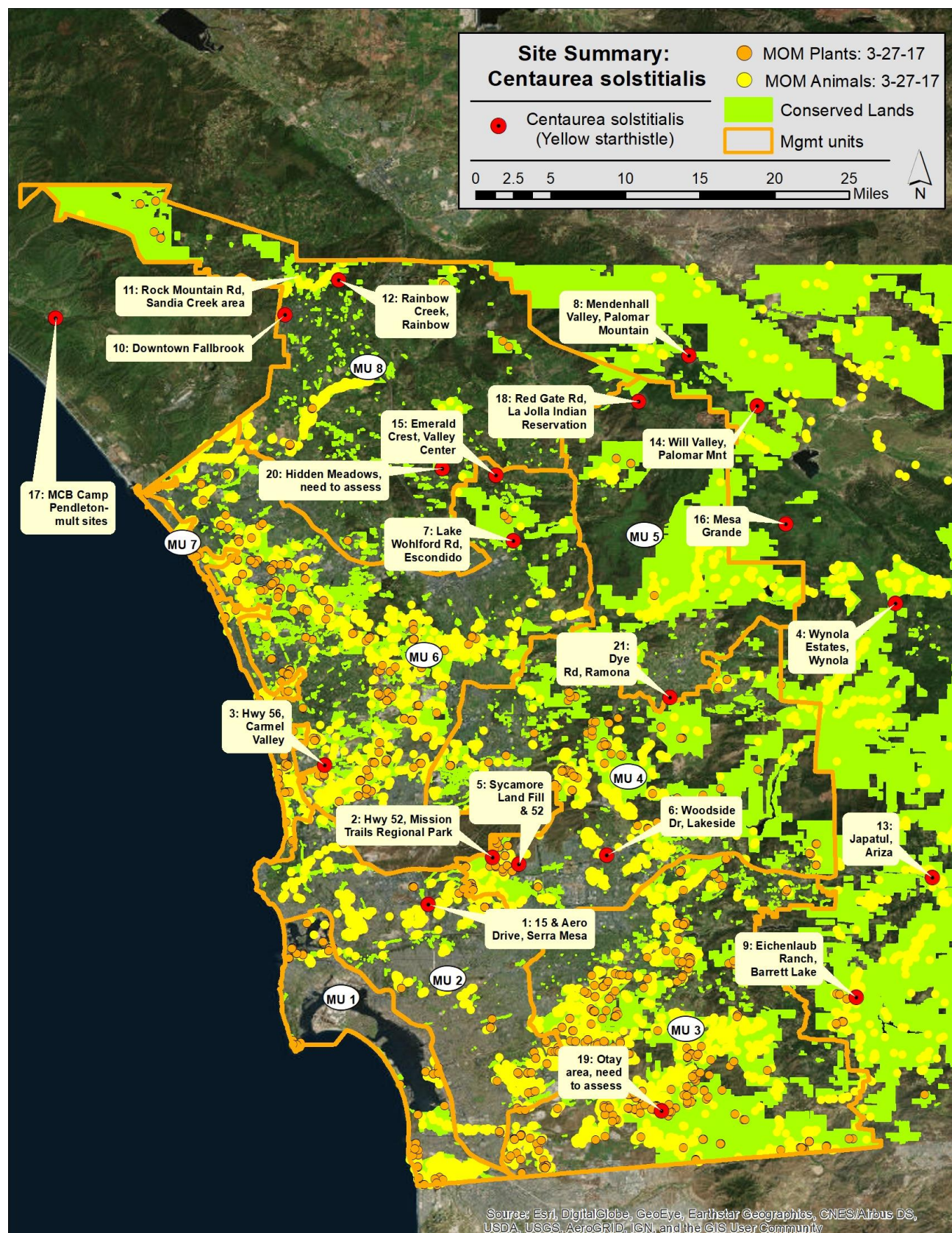


Table 6. Summary of treatments performed by AWM on *Centaurea solstitialis* (yellow star thistle)

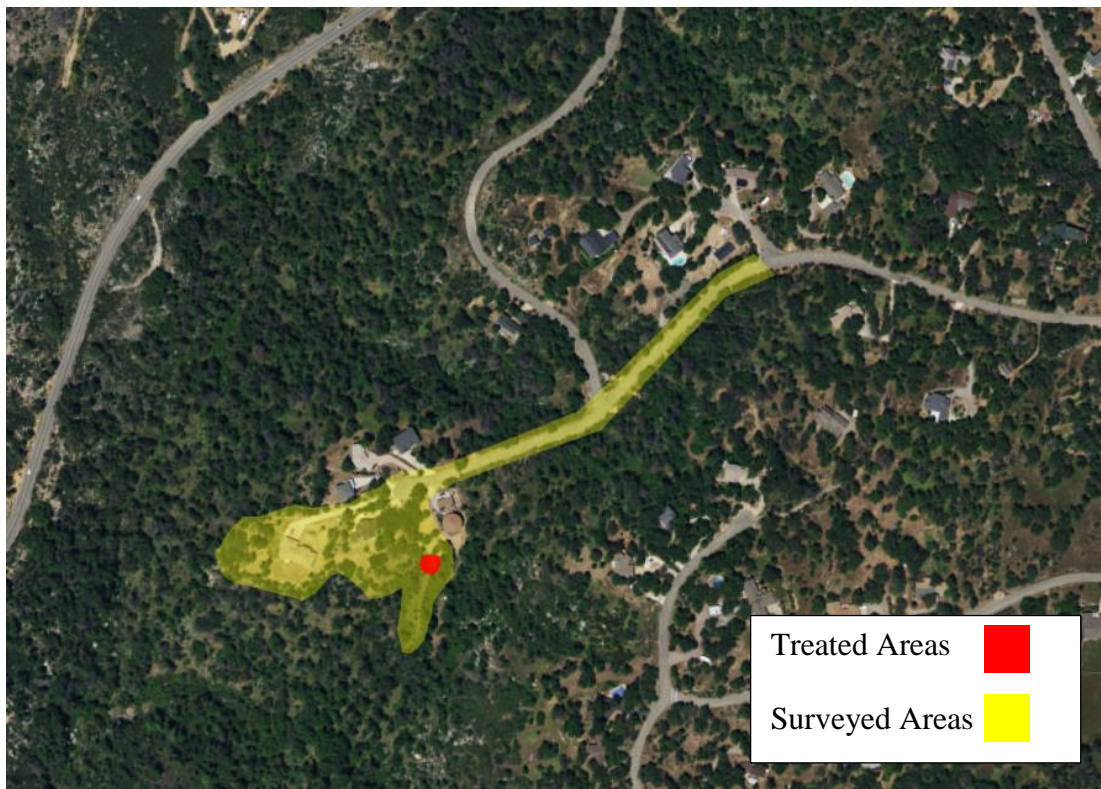
| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|--|---------------------|------------------|----------------|---------------|----------------|
| Site #4, Wynola Estates, Wynola | yellow star thistle | 1 | 8.3 | 0.2 | 635 |
| Site #6, Woodside Drive, Lakeside | yellow star thistle | 1 | 0.6 | - | - |
| Site #8, Mendenhall Valley, Palomar | yellow star thistle | 1 | 11.2 | 0.1 | 15 |
| Site #12, Rainbow Creek, Rainbow | yellow star thistle | 1 | 3.4 | - | - |
| Site #13, Japatul, Ariza | yellow star thistle | 1 | 0.5 | 0.1 | 200 |
| Site #16, Mesa Grande | yellow star thistle | 1 | 19.8 | 0.8 | 2,280 |
| Site #18, Red Gate, La Jolla Reservation | yellow star thistle | 1 | 0.8 | 0.2 | 1,375 |
| Site #21, Dye Rd., Ramona | yellow star thistle | 1 | 0.5 | - | - |

Centaurea solstitialis, yellow star thistle: Site #4, Wynola Estates, Wynola:

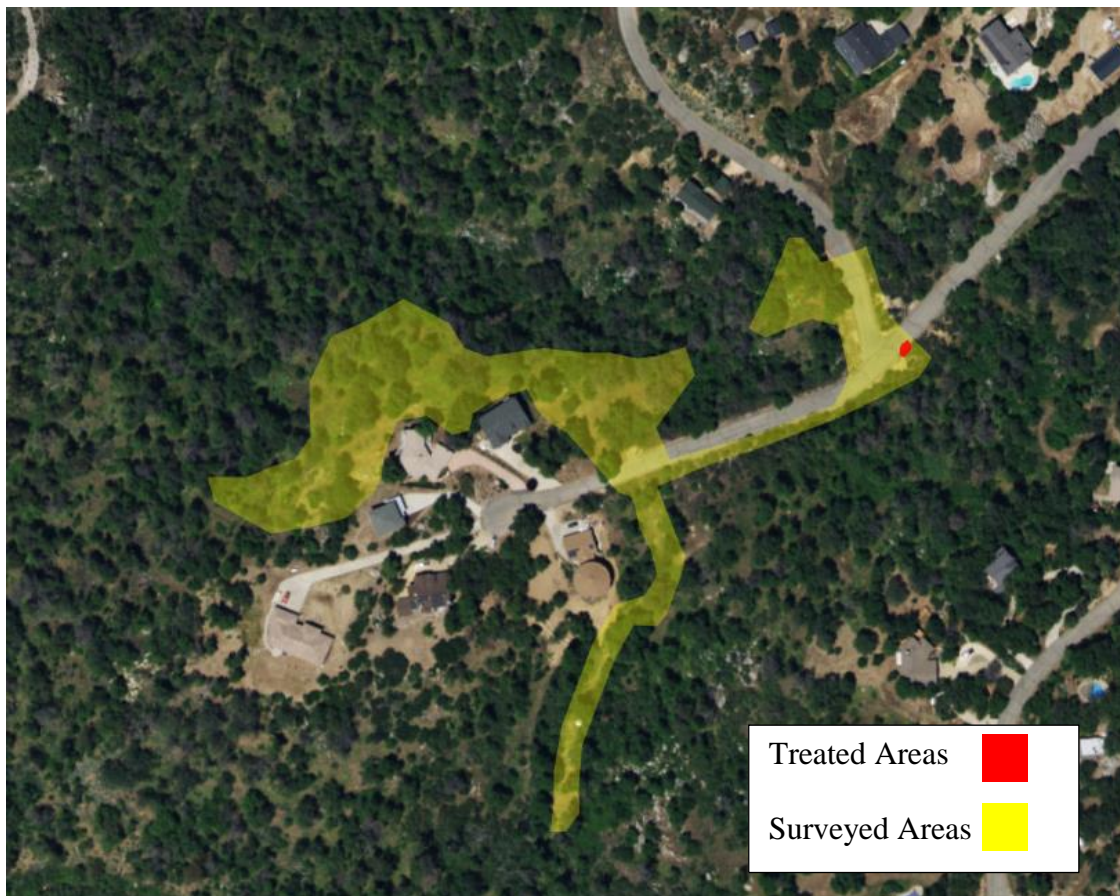
Table 7. Summary of treatments performed by AWM on *Centaurea solstitialis* (yellow star thistle)

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|---------------------------------|---------------------|------------------|----------------|---------------|----------------|
| Site #4, Wynola Estates, Wynola | yellow star thistle | 1 | 8.3 | 0.2 | 635 |

Plants were found in patches and were removed by hand. A crew of two individuals visited the site over two days 7-6-2017 and 7-7-2017.



Site #4: 7-6-2017 work, 630 plants pulled of *Centaurea solstitialis*.



Site #4: 7-7-2017 work, five plants pulled of *Centaurea solstitialis*.

Centaurea solstitialis, Yellow star thistle: Site #6, Woodside Dr. Lakeside:

Table 8. Summary of treatments performed by AWM on *Centaurea solstitialis* (yellow star thistle)

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|-----------------------------------|---------------------|------------------|----------------|---------------|----------------|
| Site #6, Woodside Drive, Lakeside | Yellow star thistle | 1 | 0.6 | - | - |

No plants were found during a survey of the site. A crew of two individuals visited the site on 7-26-2017.



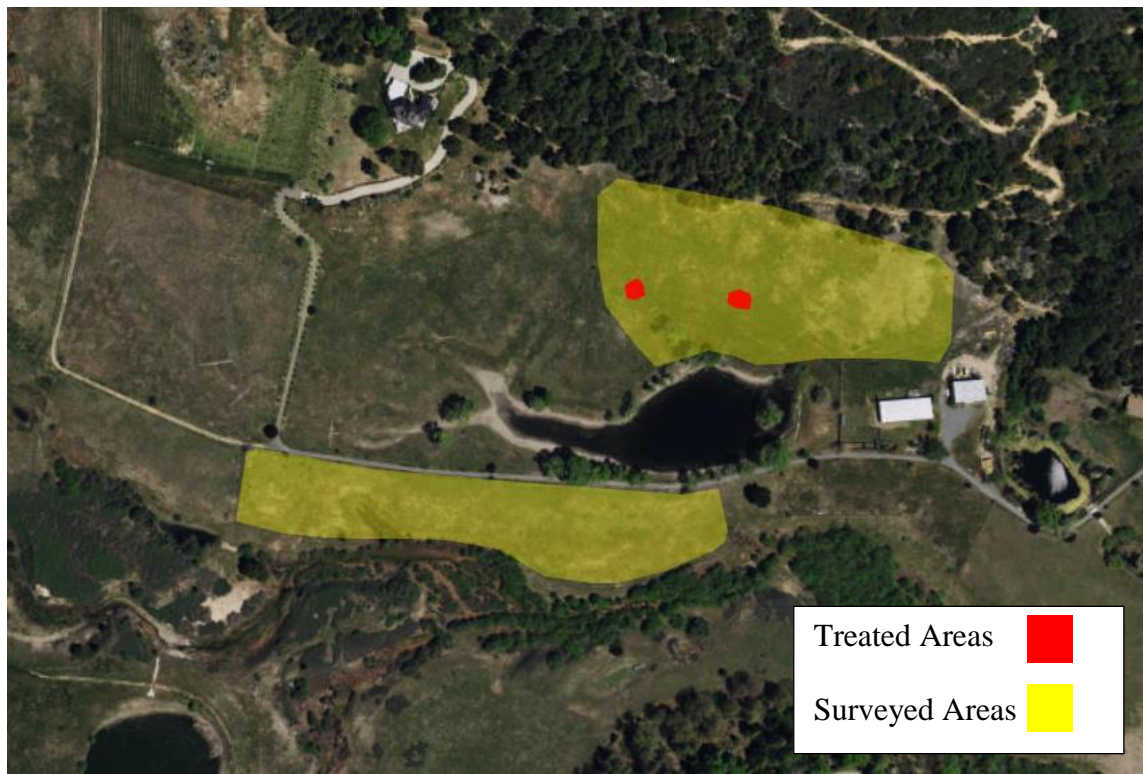
Site #6: 7-26-2017 work, no plants were found of *Centaurea solstitialis*.

Centaurea solstitialis, yellow star thistle: Site #8 Mendenhall

Table 9. Summary of treatments performed by AWM on *Centaurea solstitialis* (Yellow star thistle)

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|--------------------|---------------------|------------------|----------------|---------------|----------------|
| Site #8 Mendenhall | yellow star thistle | 1 | 11.2 | 0.1 | 15 |

15 plants were found and manually removed during a survey of the site. A crew of two individuals visited the site on 9-26-2017.



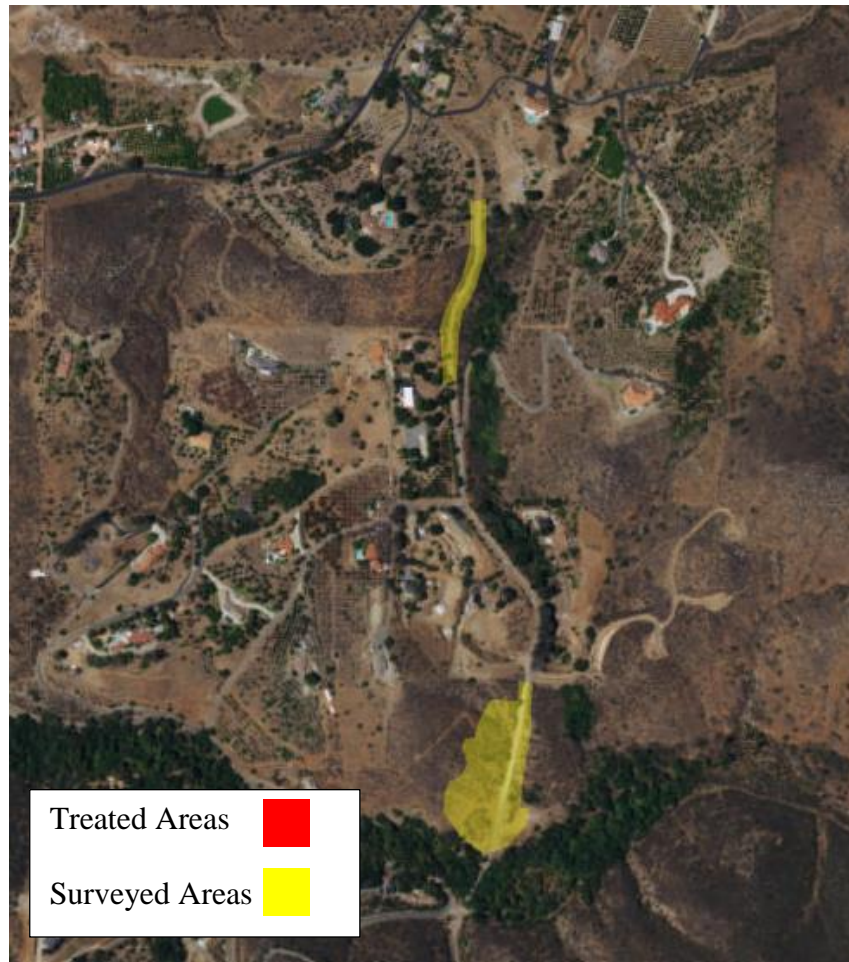
Site #8: 9-26-2017 work, 15 plants were manually removed of *Centaurea solstitialis*.

***Centaurea solstitialis*, yellow star thistle: Site #12 Rainbow**

Table 10. Summary of treatments performed by AWM on *Centaurea solstitialis* (Yellow star thistle)

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|------------------------|---------------------|------------------|----------------|---------------|----------------|
| Site #12 Rainbow Creek | yellow star thistle | 1 | 3.4 | - | - |

No plants were found during a survey of the site. A crew of two individuals visited the site on 7-10-2017.



Site #12: 7-10-2017 work, no plants were found of *Centaurea solstitialis*.

Table 11. Summary of treatments performed by AWM on *Centaurea solstitialis* (yellow star thistle)

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|-------------------|---------------------|------------------|----------------|---------------|----------------|
| Site #13, Japatul | yellow star thistle | 1 | 0.5 | 0.1 | 200 |

200 plants were found and manually removed during a survey of the site. A crew of two individuals visited the site on 7-26-2017. Part of the site could not be accessed. The property owner is being contacted to obtain an ROE agreement. There are also plants on the east side of the road. These are being controlled by the United States Forrest Service and San Diego Gas & Electric.



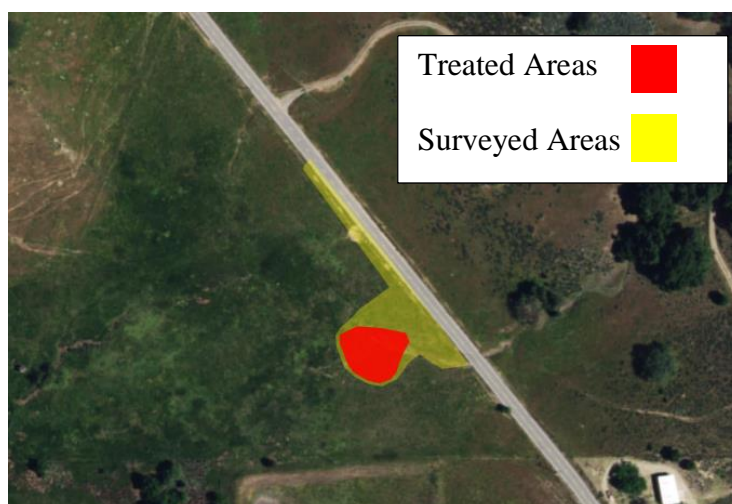
Site #13: 7-26-2017 work, 200 plants were found and removed of *Centaurea solstitialis*.

***Centaurea solstitialis*, yellow star thistle: Site #16 Mesa Grande**

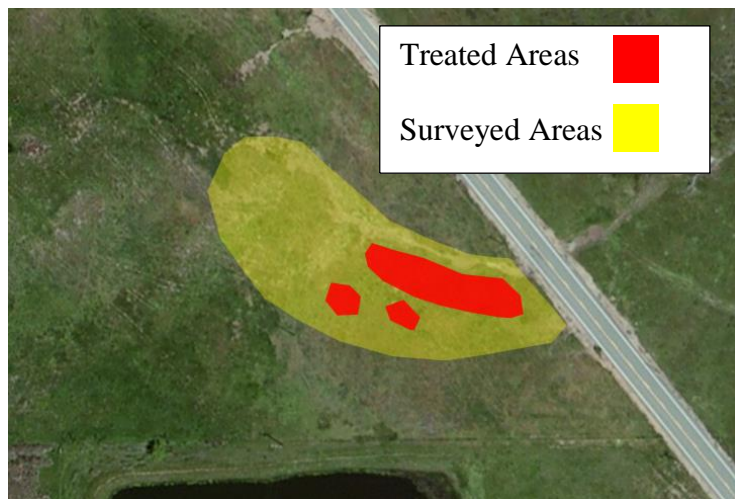
Table 12. Summary of treatments performed by AWM on *Centaurea solstitialis* (Yellow star thistle)

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|-----------------------|---------------------|------------------|----------------|---------------|----------------|
| Site #16, Mesa Grande | yellow star thistle | 1 | 19.8 | 0.8 | 2,280 |

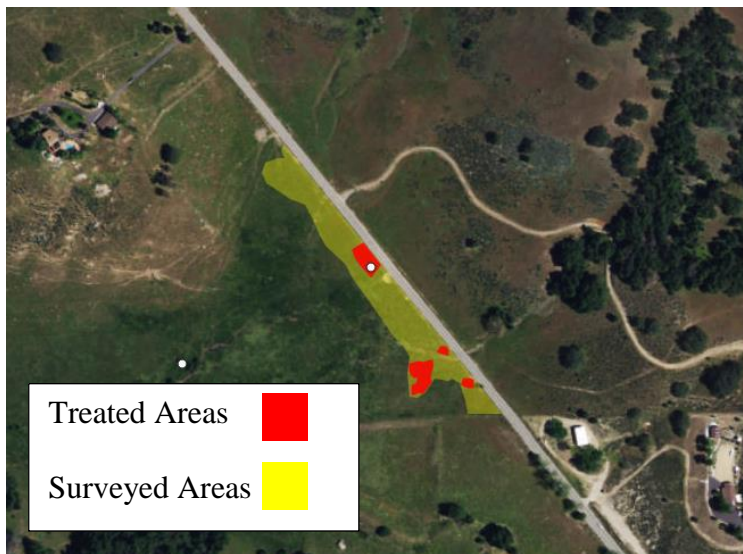
Plants in scattered patches and were removed by hand. A crew of two individuals visited the site over six days during July 2017 (13, 14, 19, 21, 24 and 25).



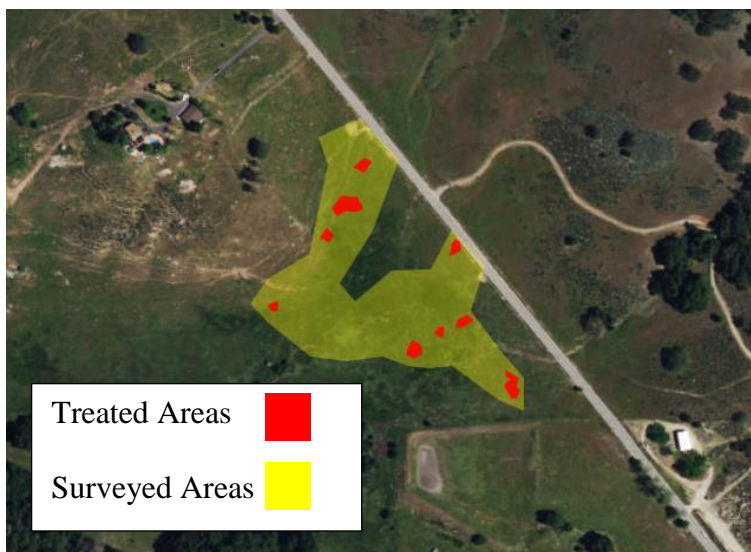
Site #16: 7-13-2017 work, 475 plants were found and removed of *Centaurea solstitialis*.



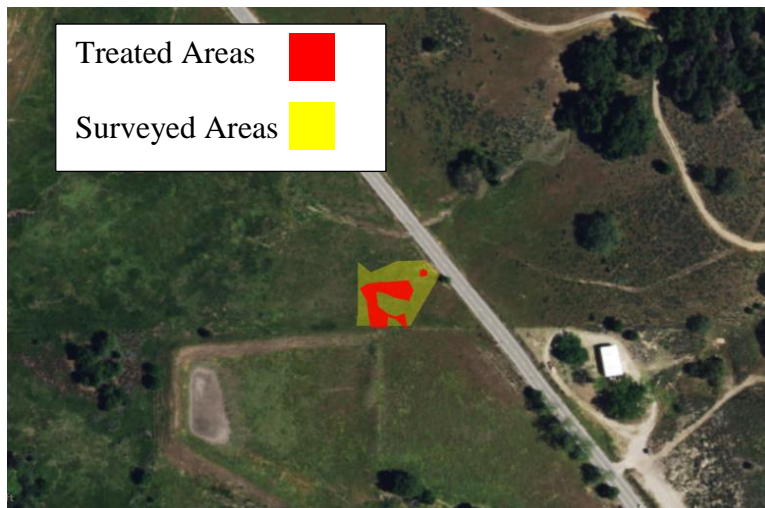
Site #16: 7-14-2017 work, 355 plants were found and removed of *Centaurea solstitialis*.



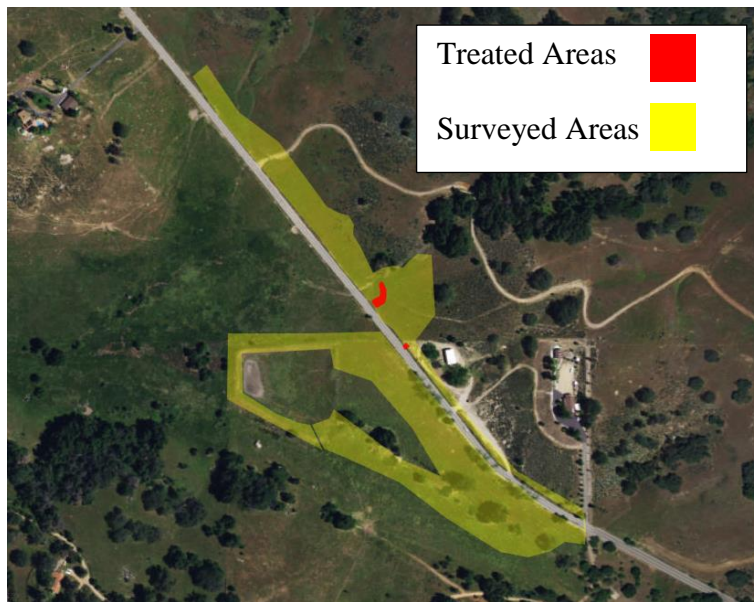
Site #16: 7-19-2017 work, 500 plants were found and removed of *Centaurea solstitialis*.



Site #16: 7-21-2017 work, 480 plants were found and removed of *Centaurea solstitialis*.



Site #16: 7-24-2017 work, 450 plants were found and removed of *Centaurea solstitialis*.



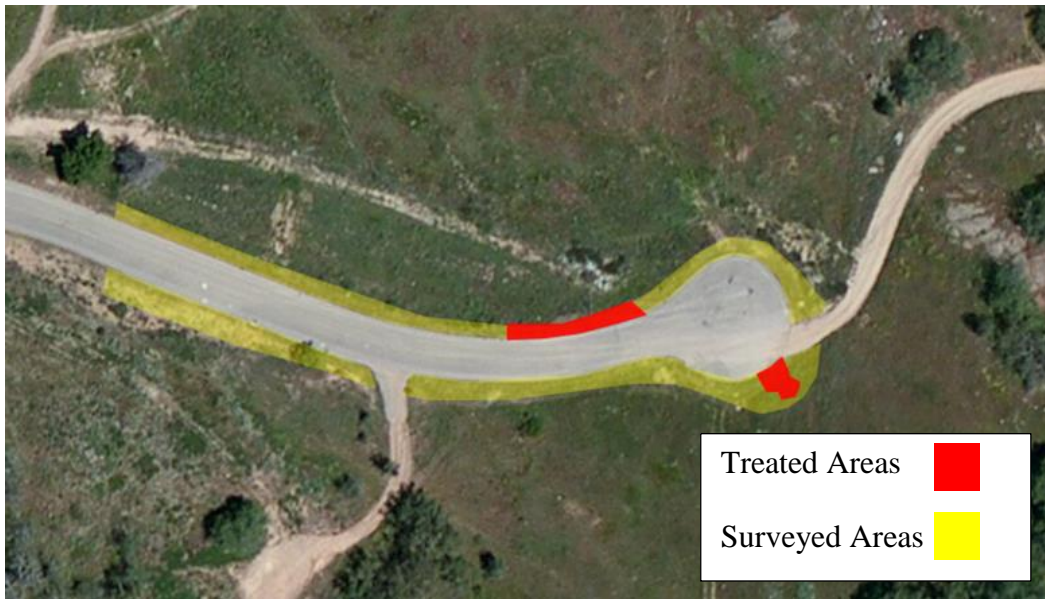
Site #16: 7-25-2017 work, 20 plants were found and removed of *Centaurea solstitialis*.

***Centaurea solstitialis*, yellow star thistle: Site #18 Red Gate Rd.**

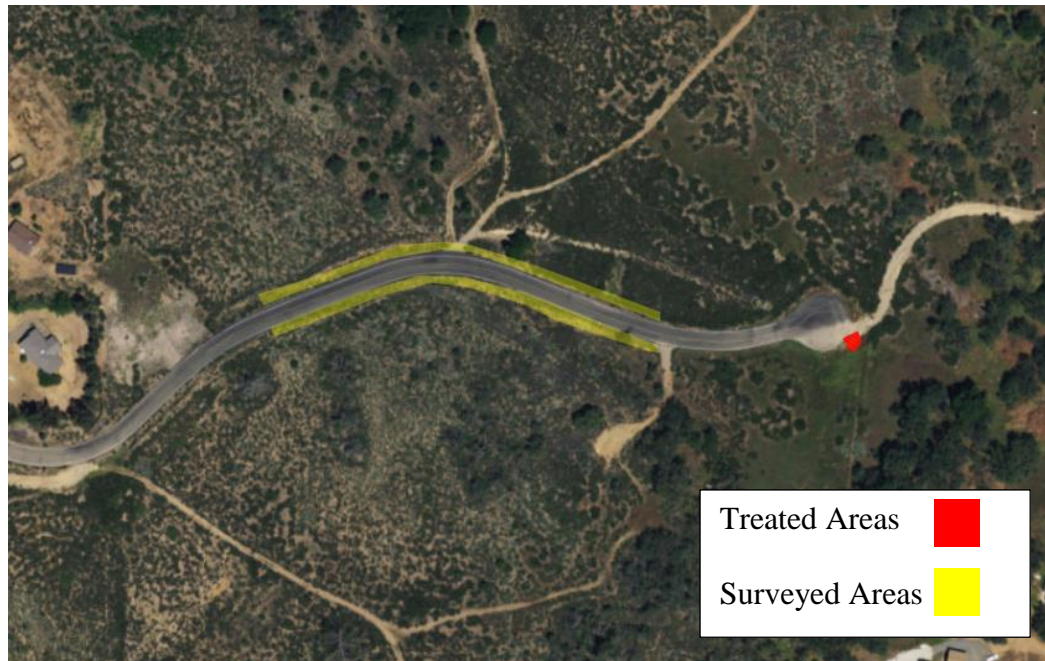
Table 13. Summary of treatments performed by AWM on *Centaurea solstitialis* (Yellow star thistle)

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|-----------------------|---------------------|------------------|----------------|---------------|----------------|
| Site #18 Red Gate Rd. | yellow star thistle | 1 | 0.8 | 0.2 | 1,375 |

1,375 plants in scattered patches and were removed by hand. A crew of two individuals visited the site over two days on 8-15- 2017 and 8-16-2017.



Site #18: 8-15-2017 work, 650 plants were found and removed of *Centaurea solstitialis*.



Site #18: 8-16-2017 work, 725 plants were found and removed of *Centaurea solstitialis*.

***Centaurea solstitialis*, yellow star thistle: Site #21 Dye Rd.**

Table 14. Summary of treatments performed by AWM on *Centaurea solstitialis* (Yellow star thistle)

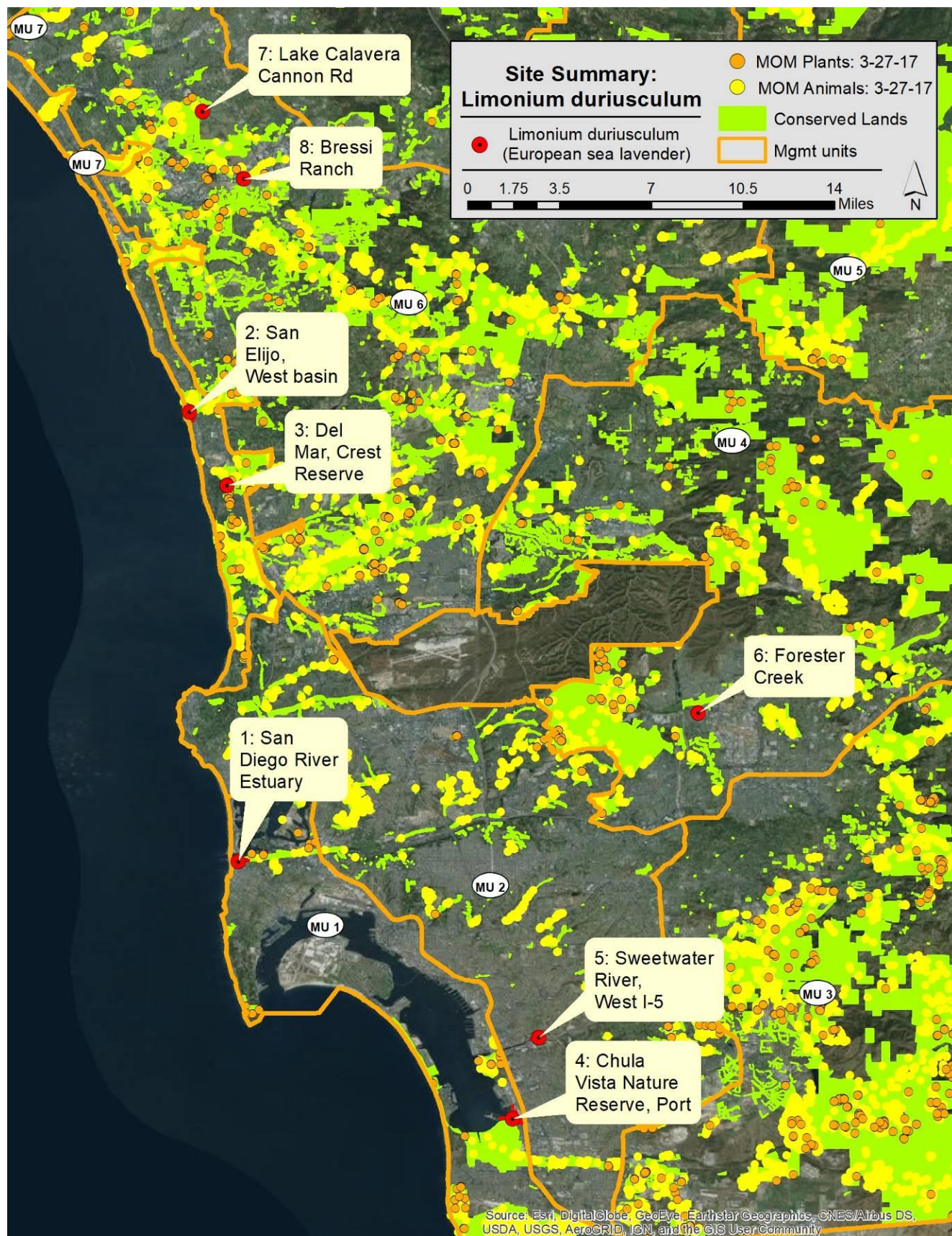
| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|------------------|---------------------|------------------|----------------|---------------|----------------|
| Site #21 Dye Rd. | yellow star thistle | 1 | 0.5 | - | - |

No plants were found during a survey of the site. A crew of two individuals visited the site on 7-10-2017.



Site #21: 7-26-2017 work, no were found during survey for *Centaurea solstitialis*.

Limonium duriusculum, European sea lavender:



***Limonium duriusculum*, European sea lavender: Site #2 San Elijo:**

Table 15. Summary of treatments performed by AWM on *Limonium duriusculum* (European sea lavender).

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|--------------------------|-----------------------|------------------|----------------|---------------|----------------|
| Site #2 San Elijo Lagoon | European sea lavender | 1 | 1.2 | 0.2 | 600 |

Mature plants and seedlings were manually removed. A crew of two individuals worked on 8-7-2017 and 9-25-2017. Cover is greatly reduced (>90% cover reduction), but there are seedlings sprouting.

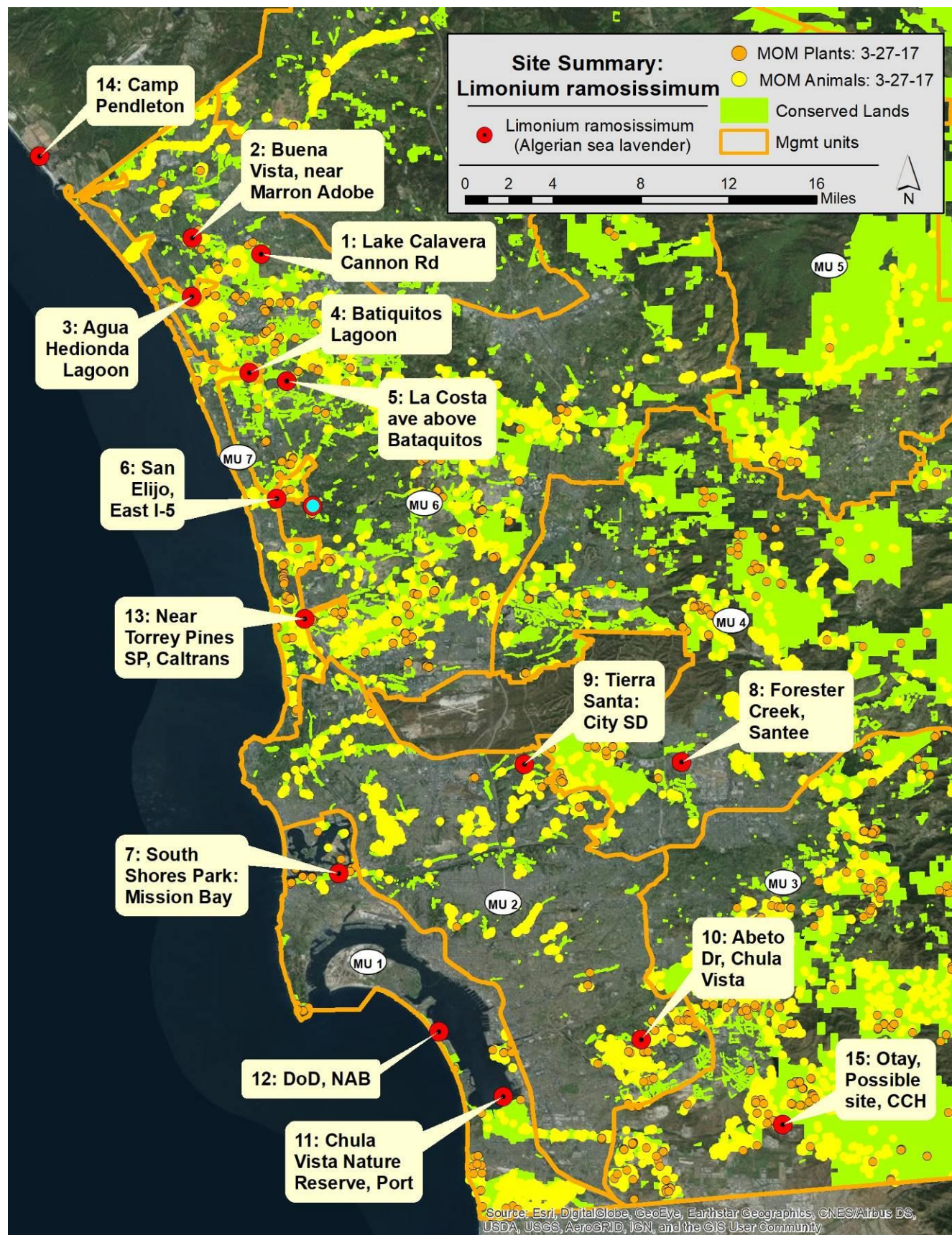


Site #2: 8-7-2017 work, 550 *Limonium duriusculum* plants were found and removed.



Site #2: 9-22-2017 work, 50 *Limonium duriusculum* plants were found and removed.

***Limonium ramosissimum*, Algerian sea lavender:**

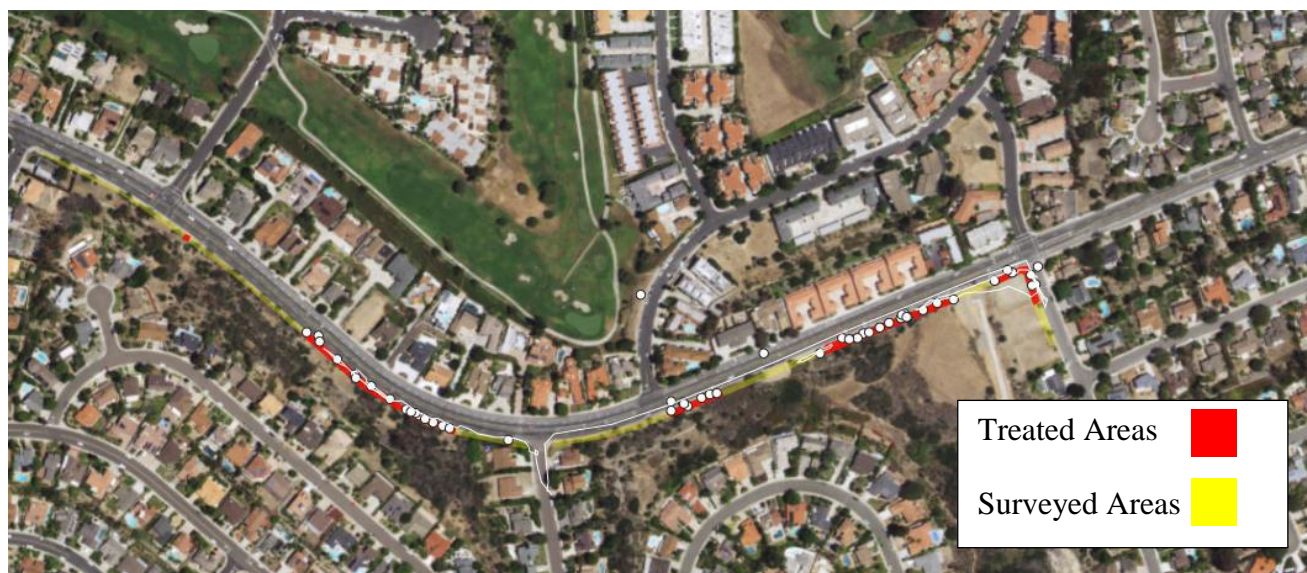


***Limonium ramosissimum*, Algerian sea lavender: Site #5 La Costa Ave**

Table 16. Summary of treatments performed by AWM on *Limonium ramosissimum* (Algerian sea lavender).

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|----------------------|-----------------------|------------------|----------------|---------------|----------------|
| Site #5 La Costa Ave | Algerian sea lavender | 2 | 1.8 | 0.3 | 750 |

Mature plants and seedlings were foliar treated with glyphosate. A crew of two individuals worked on 8-7-2017 and re-treated the same area on 9-22-2017. Cover is greatly reduced compared to initial infestation (>90% cover reduction), but there are seedlings sprouting.



Site #5: 8-7-2017 treatment of 600 *Limonium ramosissimum* plants.



Site #5: 9-22-2017 treatment of 150 *Limonium ramosissimum* plants.

Genista monspessulana, French broom:

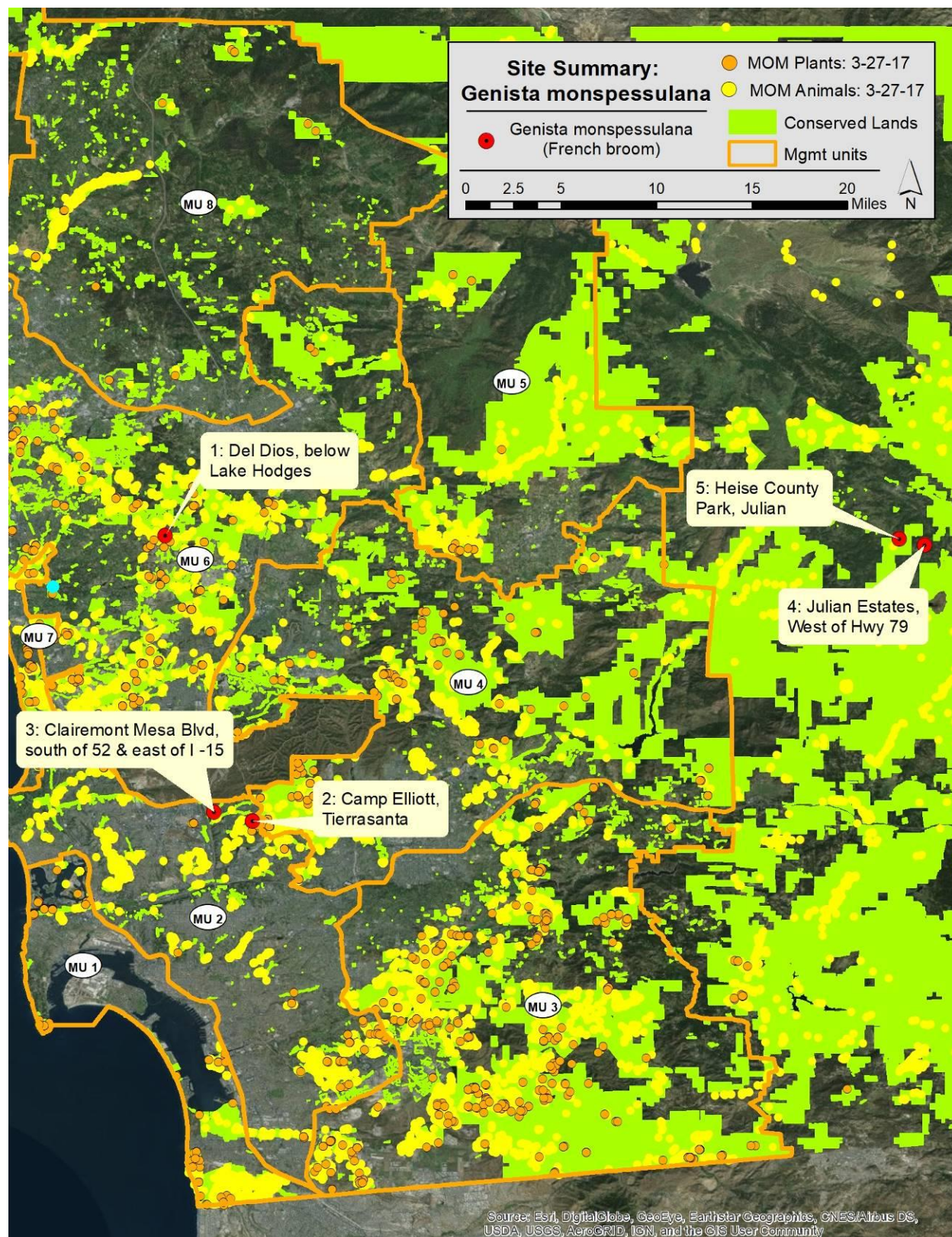


Table 17. Summary of treatments performed by AWM on *Genista monspessulana*, French broom:

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|---------------------------|--------------|------------------|----------------|---------------|----------------|
| Site #2 Tierrasanta | French broom | 1 | 12.5 | - | - |
| Site #3 Clairemont Mesa | French broom | 1 | 1.1 | 0.3 | 1,325 |
| Site #5 Heise County Park | French broom | 1 | 7.8 | 2.1 | 2,700 |

Genista monspessulana, French broom: Site #2 Tierrasanta

Table 18. Summary of treatments performed by AWM on *Genista monspessulana*, French broom.

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|---------------------|--------------|------------------|----------------|---------------|----------------|
| Site #2 Tierrasanta | French broom | 1 | 12.5 | - | - |

Canyon areas was surveyed in Tierrasanta (City of San Diego property). Volunteers are controlling the plants. Their work will be checked periodically. Two private properties also have plants. AWM will pursue ROEs to treat these backyard areas adjacent to open space.



Site #2: Survey on 8-4-2017 for *Genista monspessulana* plants.

***Genista monspessulana*, French broom: Site #3 Clairemont Mesa Blvd.:**

Table 19. Summary of treatments performed by AWM on *Genista monspessulana*, French broom.

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|--------------------------------|--------------|------------------|----------------|---------------|----------------|
| <i>Site #3 Clairemont Mesa</i> | French broom | 1 | 1.1 | 0.3 | 1,325 |

Mature plants were cut stump treated with Element 4 (Triclopyr). A crew of two individuals worked six days (first three days cutting and treating, second three days hauling and disposing) on 7-27/28, 8-2, 8-11, 8-14, and 8-17-2017.



Site #3: Treatments and biomass removal on 7-27/28, 8-2, 8-11, 8-14, and 8-17-2017 for *Genista monspessulana* plants.

***Genista monspessulana*, French broom: Site #5 Heise Park:**

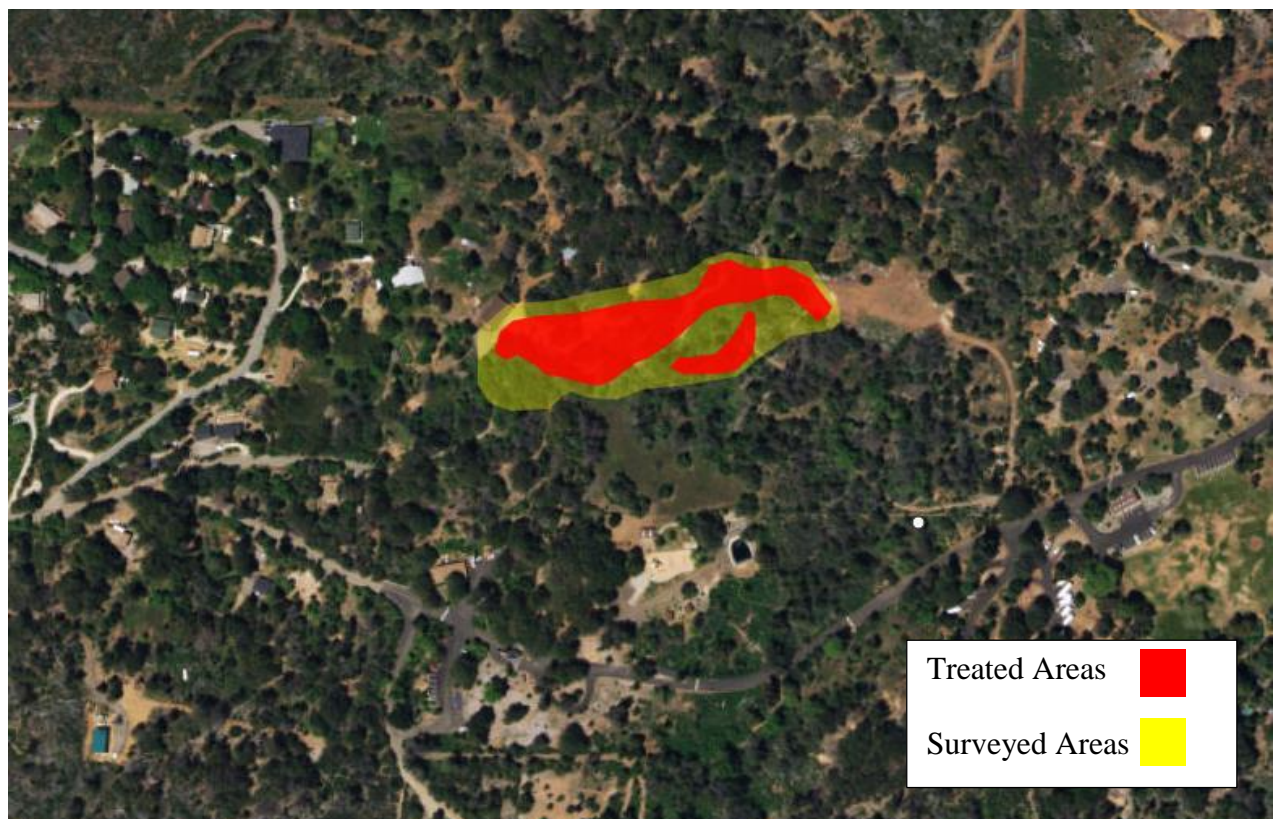
Table 20. Summary of treatments performed by AWM on *Genista monspessulana*, French broom.

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|---------------------------|--------------|------------------|----------------|---------------|----------------|
| <i>Site #5 Heise Park</i> | French broom | 1 | 7.8 | 2.1 | 2,700 |

Re-sprouts and seedlings were foliar treated with Element 4 (Triclopyr). A crew of two individuals worked two days 9-28-2017 and 9-29-2017.



Site #5: Treatments and biomass removal on 9-28-2017 for *Genista monspessulana* plants.



Site #5: Treatments and biomass removal on 9-29-2017 for *Genista monspessulana* plants.

Retama monosperma, Bridal broom:

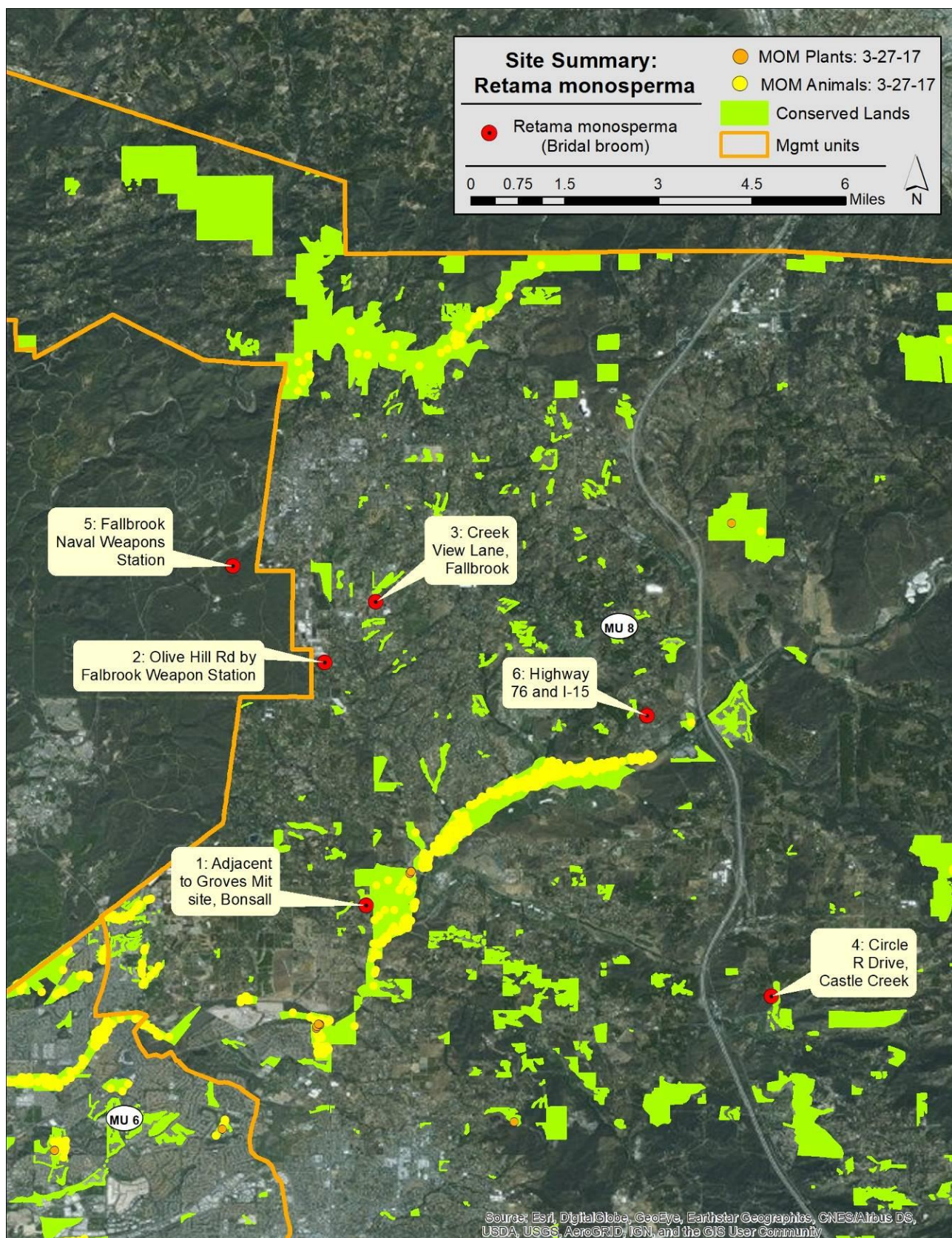


Table 21. Summary of treatments performed by AWM on *Retama monosperma*, Bridal broom:

| Site Name | Common Name | # of Work Cycles | Acres Surveyed | Acres Treated | Plants treated |
|--------------------------------|--------------|------------------|----------------|---------------|----------------|
| <i>Site #2 Olive Hill Rd</i> | Bridal broom | 1 | 5.4 | 0.5 | 400 |
| <i>Site #3 Creek View Lane</i> | Bridal broom | 1 | 0.3 | 0.1 | 4 |

***Retama monosperma*, Bridal broom: Site #2 Olive Hill Rd**

400 re-sprouts and seedlings were foliar treated with Element 4 (Triclopyr). A crew of two individuals worked two days 7-10-2017 and 7-12-2017.



Site #2: Treatments on 7-10-2017 & 7-12-2017 for *Retama monosperma* plants.

Retama monosperma, Bridal broom: Site #3 Creek View Lane:

Four re-sprouts and seedlings were hand pulled. A crew of two individuals worked 7-10-2017.



Site #3: Treatments on 7-12-2017 for *Retama monosperma* plants.

TASK 4 – AWM: Invasive Plant Level 3 Management.

Level of Effort: (<20%) of overall contract

- No charges during this quarter.

TASK 5 – Coordinator: Tracking and Updating Invasive Species for Priority Removal.

Level of Effort: (5%) of overall contract

- Volutaria knapweed (*Volutaria tubuliflora*) has been located in San Diego County (Anza Borrego (Borrego Springs), Chula Vista, and Rice Canyon). This plant also occurs in Orange County (Newport Bay). Coordination work with these regions on mapping, ID and treatment approaches continued (emails and calls).
- Plant ID sheets were distributed for seven species (six cards) (Table 22).
- An update on SANDAG-funded EDRR work for the year was presented at the San Diego Weed Management Area (SDWMA) meeting.
- Contributed to Stinknet (*Oncosiphon piluliferum*) meeting and work group.

Table 22. Primary EDRR targets for program with status of SDPAF and weed ID sheets noted. Six new cards have been prepared and distributed.

| Scientific name | Common name | Growth form | Habitat | SD ID Sheet |
|-------------------------------|---------------------|-----------------|-------------------------|----------------------|
| <i>Aegilops triuncialis</i> | barbed goat grass | Annual grass | Grassland | Completed |
| <i>Ageratina adenophora</i> | Eupatory | Perennial forb | Riparian | Yes |
| <i>Carrichtera annua</i> | Ward's weed | Annual forb | Uplands (shrub & grass) | Completed |
| <i>Centaurea solstitialis</i> | yellow star thistle | Annual forb | Grassland | Draft |
| <i>Elymus caput-medusae</i> | Medusahead | Annual grass | Grassland | Draft |
| <i>Euphorbia terracina</i> | carnation spurge | Annual forb | Uplands | Completed |
| <i>Euphorbia virgata</i> | leafy spurge | Annual forb | Uplands | Completed (on above) |
| <i>Genista monspessulana</i> | French broom | Perennial shrub | Riparian or uplands | Yes |
| <i>Genista monosperma</i> | Bridal broom | Perennial shrub | Uplands (shrub & | Completed |

| Scientific name | Common name | Growth form | Habitat | SD ID Sheet |
|------------------------------|-------------------------------|-----------------|-----------------------------------|-------------|
| | | | grass) | |
| <i>Hypericum canariense</i> | Canary Island St. John's wort | Perennial shrub | Shrublands | Completed |
| <i>Limonium duriusculum</i> | European sea lavender | Perennial forb | Wetlands (salt & fresh) & uplands | Yes |
| <i>Limonium ramosissimum</i> | Algerian sea lavender | Perennial forb | Wetlands (salt & fresh) & uplands | Yes |
| <i>Lythrum salicaria</i> | purple loosestrife | Perennial forb | Wetlands (fresh) | Yes |
| <i>Sesbania punicea</i> | rattlebox | Perennial shrub | Wetlands (fresh) | Yes |
| <i>Volutaria tubuliflora</i> | Volutaria knapweed | Annual forb | Uplands (shrub & grass) | Completed |

Work Anticipated for 2nd Quarter Period, October 1, 2017 – December 31, 2017:

Task 1 – Invasive Plant Species Coordinator:

- Coordinate ROE work with AWM, update database.
- Monitor and coordinate with AWM during implementation.
- Survey and map sites as needed.
- Prepare quarterly and annual report.
- Submit Geographic Information System (GIS) data for target EDRR species.

Task 2 – AWM: Invasive Plant Level 1 Management.

- Survey, map, and treat any reported sightings of target Level 1 plants.
- Supervision of staff, provide training, guidance, and preparation for field work.
- Collect GIS points of targeted weeds, if found.

Task 3 – AWM: Invasive Plant Level 2 Management.

- Re-treatment of sites.
- Supervision of staff, provide training, guidance, and preparation for field work.
- Coordinate and finalize tracking methods for work completed.
- Initiate and continue work outlined in work plan.
- Obtain signed ROEs.
- Collect GIS points of targeted weeds.

Task 4 – AWM: Invasive Plant Level 3 Management.

- No work planned.

Task 5 – Coordinator: Tracking and Updating Invasive Species for Priority Removal.

- Continue coordination with Department of Defense, California Department of Parks and Recreation, San Diego Weed Management Area and Orange County Chapter, California Native Plant Society EDRR invasive group.
- Continue to aggregate data and track new prospective EDRR target species.
- Work on 12 San Diego Plant Assessment Forms for EDRR species will continue, so that the Invasives Strategic Plan can be updated to include them.
- Contribute to Stinknet, *Oncosiphon piluliferum* meeting and work group. Prepare weed ID sheet.
- Attend San Diego Management & Monitoring Program meetings, if requested.