



Nature Collective

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San Diego Association of Governments Quarterly Progress Report

Reporting Period: Quarter 1 (January 1st – March 31st) 2022

SANDAG Contract Number: S833005 – Nature Collective Invasive Plant Treatment

Work Performed This Period:

Task 1- Project Management, Admin and Meetings

Communications occurred with SANDAG, partners, contractors, and consultants to ensure compliance with agreements and contracts. Field contractor is under contract and registered under the labor compliance program. Invoicing and Quarterly reporting to SANDAG is occurring. MOUs, ROEs, and other agreements required for project reviewed and signed. Meetings, preparation for field work, and continuation of work on tasks 2-4 occurred.

Task 2- Oncosiphon Treatment for Priority Species

Co-ordination and planning:

Coordination of work in two areas occurred: Otay Mesa West (City of San Diego and Caltrans) and a portion of San Pasqual Battlefield State Park. Work was also set up for the County of San Diego at Furby Park property, with work completed by the County of San Diego AWM crew. This addresses stinknet populations to the west (Figure 1). Ongoing communication occurred with SDMMMP staff, including discussion of additional work areas in fall/winter 2022/23.

ROE or MOU work:

ROE/MOUs were secured for Caltrans which owns a parcel, and coordination with Jason Allen, City of San Diego occurred for Otay Mesa West work.

Field work:

Otay West (Figure 1 and site photos):

This site has two general habitat areas: vernal pool habitat (where only post emergent glyphosate was used) and upland grassland/disturbed habitat and/or scrubland habitat (where a mix of pre-emergent, Gallery, and post emergent, glyphosate, were used). Treatments around the vernal pools were on scattered patches of stinknet. Treatments of upland stinknet plants varied from small patches (10 to 50 plants) to larger stands (thousands of plants). All areas were treated except for some stands of plants at an SDG&E substation (no ROE). Stinknet was found to cover a fairly large area, but portions of the site did seem to be free of plants. Areas to the west were also invaded, this area (Furby Park Preserve) was treated by the County.

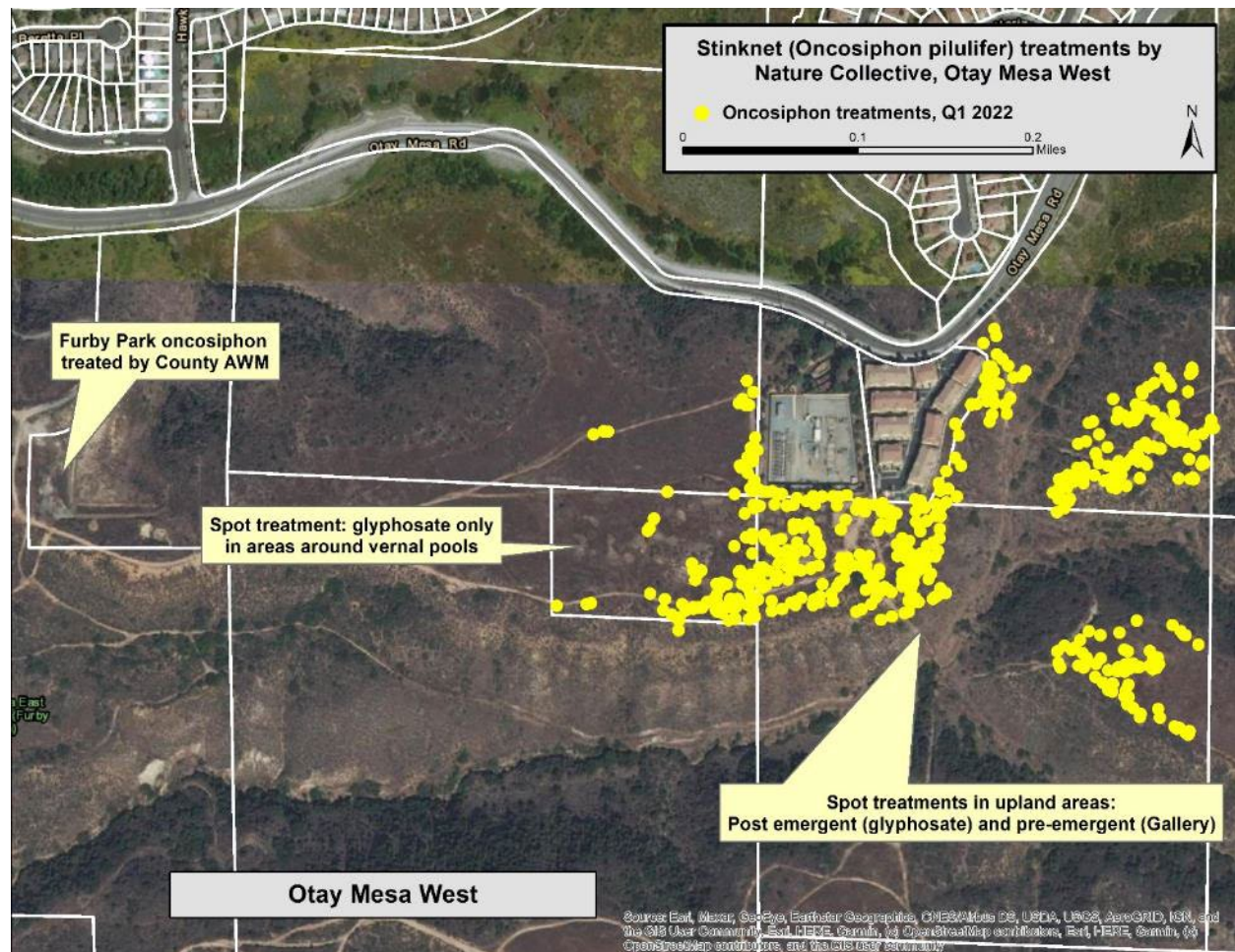


Figure 1: Otay Mesa West





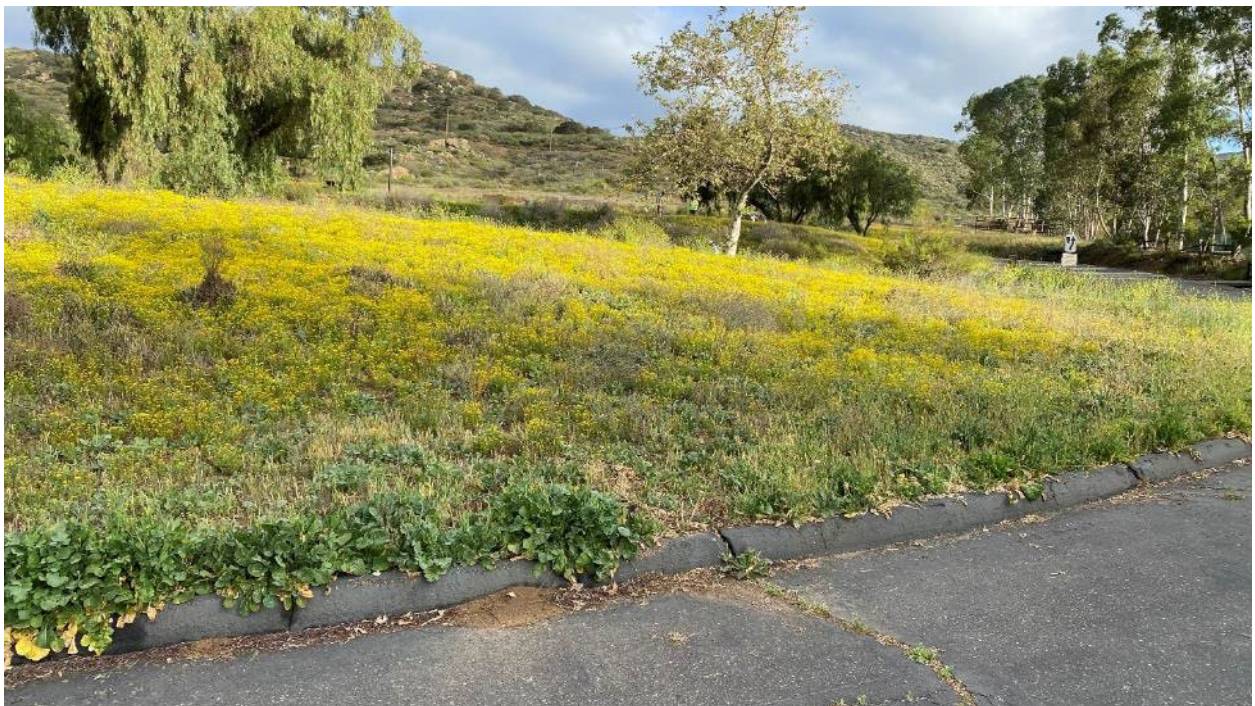
San Pasqual Battlefield State Park (Figure 2 and photos):

An untreated (no pre-emergent in winter 2021/22) portion of the site was treated with post emergent (glyphosate). A smaller area was hand pulled around a well. Two areas were not

treated: the area around the caretaker residence (plants were observed in this area) and the cemetery (this area had no visible plants, and it was also line trimmed). Plants were quite large and in flower, so the post emergent treatment may have been too late to achieve 100% control of the seeds held in flowers. Monitoring plots will sample treatment areas in Q2 2022. The pre-emergent worked quite well, but some plants were found, these were treated with glyphosate and Gallery.



Figure 2 San Pasqual Battlefield State Park





Task 3- Arundo Re-treatment

Co-ordination and planning:

Two additional areas were treated: a Carlsbad HU site by I-5 and La Costa (adjacent to Batiquitos estuary) and an area on San Diego River in Santee (Figure 3). Caltrans was coordinated for the Batiquitos site and Carlton Oaks Golf Course was coordinated with for the Santee site.



Figure 3: Arundo re-treatment areas.

Carlsbad Watershed:

The Batiquitos site was cut stump treated as the Arundo was growing in heavy tree cover (Figure 4). The treated area was about 0.25 acres in size.



Figure 4: Arundo re-treatment at Batiquitos Lagoon an La Costa Ave and I-5.





San Diego Watershed:

A 0.1 acre stand of Arundo at the Santee Carlton Oaks Golf Course site was cut and chipped, with cut stump treatment applied (Figure 5).



Figure 5 Arundo treatment at Carlton Oaks Golf Course.





Canary Island St. John's wort are the dark brown shrubs/stands in this image.







Ward's weed site

Co-ordination and planning:

A Ward's weed site was selected for work in Encinitas Ranch area of Encinitas. The City of Encinitas coordinated with as the population is along a city trail, so the trail was closed while crews worked..

Field work:

The site was treated with pre-emergent in January 2022.



Figure 7: Ward's weed site in Encinitas Ranch.

Work Anticipated Next Period: Q2 2022

Task 1- Project Management, Admin and Meetings

Work will continue on this task.

Task 2- Oncosiphon Treatment for Priority Species

Vegetating monitoring at San Pasqual Battlefield State Park will monitor effect of pre-emergent and post-emergent treatment of stinknet on plant cover. Some priority sites may be mapped to assist with treatments in fall/winter 2022.

Task 3- Arundo Re-treatment

A small site may be treated on the west side of I-5 at La Costa in Carlsbad HU.

Task 4- EDRR Level 2 sites

Sesbania: field work will occur in Q2 2022.

Additional sites are being identified. These may include: purple loosestrife, Limonium sites, and other complicated access/work situations.