

has been being treated around the bathroom area. Dense grass, around the picnic area has been aiding with the process of noxious weed control. A small population of oxeye daisy was identified and treated in the willows at Crowe Gulch. It is important to continue inspecting and treating for oxeye daisy in this area because the feasibility for the noxious weed seeds to spread from the large amount of vehicles that stop here. The bouncingbet population at the Crystal Reservoir overlook was not identified in either treatment in 2018. This population could have been fairly new when it was first discovered in 2016. A newly discovered population is easier to control because it hasn't gotten a chance to establish itself or a seed bank. Continued treatments and inspections will be needed to ensure the bouncingbet population doesn't return and has been eradicated.

### **Crystal Reservoir to Halfway Picnic Ground**

The infestation on the immediate shoulder of the highway from Crystal Reservoir to the Halfway Picnic Ground has shown regression with the amount of noxious weeds. The areas 20 to 50 feet off of the shoulder remain heavily infested with Canada thistle, common mullein, yellow toadflax, and musk thistle. Future treatments will need to continue to monitor and treat up to the border of the USFS land to prevent noxious weeds from spreading to the highway. The vast clearing located to the south of the Pikes Peak Hill Climb starting area has decreased and a lot of native grasses and forbs have shown new growth. This area will need continued treatments because of how large the area is and how widespread the infestation was during the first treatment here in 2017. Continued treatments here will allow for the native vegetation to become established.

### **Halfway Picnic Ground to Glen Cove**

The length of the highway from the Halfway Picnic Ground to Glen Cove was not inspected in 2018. Per Habitat Management's recommendations in 2017, the area is to be inspected by Pikes Peak America's Mountain staff for noxious weeds and to inform Habitat Management staff if it is necessary to treat any populations identified. This length of road should be inspected before both herbicide treatments in 2019 and Habitat Management should be informed where to treat for noxious weeds if at all necessary.

### **Crystal Reservoir Gravel Pits**

 The myrtle spurge infestation continues to remain roughly the same size. Habitat Management will use a different herbicide solution for this area specifically. The Colorado Department of Agriculture (CDA) recommends using Dicamba and 2,4-D or Picloram and 2,4-D to control myrtle spurge. In 2019, Habitat Management will use either one of these solutions to treat the myrtle spurge. The northern gravel pit had a widespread infestation of common mullein in 2017 that was effectively control and the population showed a great decrease before the 2018 growing season treatments. The 2018 treatments were very thorough and reduced the population size with each treatment. Both gravel pits will need to continue being inspected and treated for noxious weeds. The gravel pits received seeding and hydromulching in 2018 from Pikes Peak America's Mountain staff. Doing this well reintroduce desirable native vegetation to the gravel pits, which in turn will help control the noxious weed populations and in an integral part of an integrated weed management plan.

### **Eight-mile Sediment Basin**

The eight-mile sediment basin has shown a significant decline in the quantity of noxious weeds along the road down to the sediment basin. In 2018, no noxious weeds were identified along the

Habitat Management, Inc.

Commercial Herbicide Applicator (CO #11318)

Herbicide Application Record



Location: Pike's Peak Highway County: El Paso County



Crystal gravel pits

Date: 6/11/2018 10:44 AM to 3:22 PM

Customer: Pikes Peak America's Mountain 5089 Pikes Peak Highway, Cascade, CO 80809

Qualified Supervisor: Mark Ray #32504

Applicators: Mark Ray, Caleb Dikes

Weather: Sunny 7 degrees F. Wind: 3 mph out of SE

Site/Crop: Natural Area

Target Plants: Knapweed, diffuse - Centaurea diffusa - List B, Mullen, common - Verbascum thapsus - List C, Myrtle spurge- Euphorbia myrsinites- List A, Thistle, Canada - Cirsium arvense - List B, Thistle, Musk - Carduus nutans - List B, Toadflax, Yellow- Linaria vulgaris - List B

Application Equipment: Orange Kubota #3 Application Method: Spot-Spraying Carrier: Water

Herbicide Applied	Application Rate	Total Amount Applied	Dilution Rate
Induce - Adjuvant	10 fl oz per acre	7.5 fl oz	0.25 fl oz per gallon
Spray Indicator - Blue Dye	16 fl oz per acre	12 fl oz	0.40 fl oz per gallon
Milestone - 62719537 - Aminopyralid	5 fl oz per acre	3.75 fl oz	0.13 fl oz per gallon
Weedestroy AM40 - 228145 - 2,4-D	32 fl oz per acre	24 fl oz	0.80 fl oz per gallon

Total Application: 0.75 acre

Application Notes:

**NPDES COMPLIANCE (Only Applicable to Aquatic Sites)**

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated?

Did you conduct visual monitoring for adverse incidents?

Were any adverse incidents identified?

Habitat Management, Inc.

Commercial Herbicide Applicator (CO #11318)

Herbicide Application Record



Location: Pike's Peak Highway County: El Paso County

Maintenance facility and gravel pits

Date: 8/22/2018 6:50 AM to 2:07 PM

Customer: Pikes Peak America's Mountain 5089 Pikes Peak Highway, Cascade, CO 80809

Qualified Supervisor: Mark Ray #32504

Applicators: Mark Ray, Caleb Dikes

Weather: Overcast 70 degrees F. Wind: 2 mph out of E

Site/Crop: Natural Area

Target Plants: Mullen, common - Verbascum thapsus - List C, Myrtle spurge- Euphorbia myrsinites- List A, Orange hawkweed - Hieracium aurantiacum - List A, Thistle, Bull - Cirsium vulgare - List B, Thistle, Canada - Cirsium arvense - List B, Thistle, Musk - Carduus nutans - List B, Toadflax, Yellow- Linaria vulgaris - List B

Application Equipment: Orange Kubota #2 Application Method: Spot-Spraying Carrier: Water

Herbicide Applied	Application Rate	Total Amount Applied	Dilution Rate
Induce - Adjuvant	10 fl oz per acre	7.5 fl oz	0.25 fl oz per gallon
Spray Indicator - Blue Dye	16 fl oz per acre	12 fl oz	0.40 fl oz per gallon
Milestone - 62719537 - Aminopyralid	5 fl oz per acre	3.75 fl oz	0.13 fl oz per gallon
Weedar_64	32 fl oz per acre	24 fl oz	0.80 fl oz per gallon

Total Application: 0.75 acre

Application Notes: Treated 8 mile sediment basin, maintenance facility, and crystal reservoir gravel pits.

**NPDES COMPLIANCE (Only Applicable to Aquatic Sites)**

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated?

Did you conduct visual monitoring for adverse incidents?

Were any adverse incidents identified?