

Notes: Please refer to the 2019-20 Annual Report Map for the location of areas discussed below.

7. The total disturbance at the mine is now 157.1 acres \pm . Mining has continued on the working face that stretches from north to south on the eastern part of the quarry and on the area north of the processing plant. Mining continues on areas previously disturbed by lowering the mine floor and creating new benches. We continued mining on the northern part of the east side upper benches to correct the heights, width and face angles. The following list outlines the various areas of disturbance at the mine.

DESCRIPTION	ACRES
Partially reclaimed	14.1 (light green)
Reclaimed	22.14 (green)
Topsoil piles	13.7 (yellow)
Mining area	88.5 (brown)
Floor area	19.4 (orange)
Other uses	1.3 (Stage Y)
Undisturbed	128.0

9. As approved in the mining plan, only the mine benches need resoiling and revegetation. The seed beds are fertilized using a mix the goes by the industry name Biosol Forte (7-2-NPK) to the seedbed at a rate of 450 lbs per acres and then seeding and mulching. We are also hand applying a soil amendment, Industry name Humate, an organic-based amendment based on oxidized lignite materials at a rate of 11,820 lbs/acre applied and incorporated into the soil bed prior to seeding.

The upper 6 benches on the northern portion of the east wall have been revegetated 4.13 acres this year. The southern 7.8 acres on the berm was reclaimed prior to 2000 is being monitored. All revegetation is doing well on the benches. Ten benches on the east face covering 14.1 acres are partially reclaimed (light green). Stage Y is used as employee parking and truck tarp area. The 6.94 acres in Stages X and Z were released as being reclaimed from the permit in June 2020 so the total permit area is now 285.13 acres.

10. We will continue to reconfigure the east benches this year and expand the mining area as needed.
11. Reclamation will continue on the benches as mining progresses and they reach their final configuration. Habitat Management, Inc. has been hired to work on the reclamation at the mine and they seeded the 4.13 acres on the northeast side of the mine face in 2020.
18. Current Bond Amount \$741,500.00.

Habitat Management, Inc.
Commercial Herbicide Applicator (CO #11318)
Herbicide Application Record



Location: walstrum_quarry **County:** Clear Creek County

Date: 5/19/2020 8:00 AM to 2:27 PM

Customer: Albert_frei

Qualified Supervisor: Collin Jones #36288

Applicators: Drew Gramer, James Norin

Weather: Partly Cloudy 70 degrees F. **Wind:** 7 mph out of SE

Site/Crop: Reclamation/Revegetation Area

Target Plants: Knapweed, diffuse - Centaurea diffusa - List B, Mullein, common - Verbascum thapsus - List C, Thistle, Canada - Cirsium arvense - List B, Thistle, Musk - Carduus nutans - List B, Thistle, Scotch - Onopordum acanthium/tauricum - List B

Application Equipment: SG 20 Backpack Sprayer **Equipment Rate:** 30 GPA - Stihl SG 20 Backpack Spot Spray **Application Method:** Spot-Spraying **Carrier:** Water

Herbicide Applied	Application Rate	Total Amount Applied	Dillution Rate
Freelexx - 62719-634 - 2,4-D 56.3%	1.1 fl oz per gallon	15.95 fl oz	0.04 fl oz per gallon
Locktite MSO - Adjuvant	0.5 fl oz per gallon	7.25 fl oz	0.02 fl oz per gallon
Transline - 62719-259 - Clopyralid 40.9%	0.5 fl oz per gallon	7.25 fl oz	0.02 fl oz per gallon
Spray Indicator - Blue Dye	0.5 fl oz per gallon	7.25 fl oz	0.02 fl oz per gallon

Total Application: 14.5 gallon

Total Acres Applied with Backpacks if Applicable: 0.48

Total Acres Surveyed if Applicable:

Application Notes:

NPDES COMPLIANCE (Only Applicable to Aquatic Sites)

Aquatic site: No

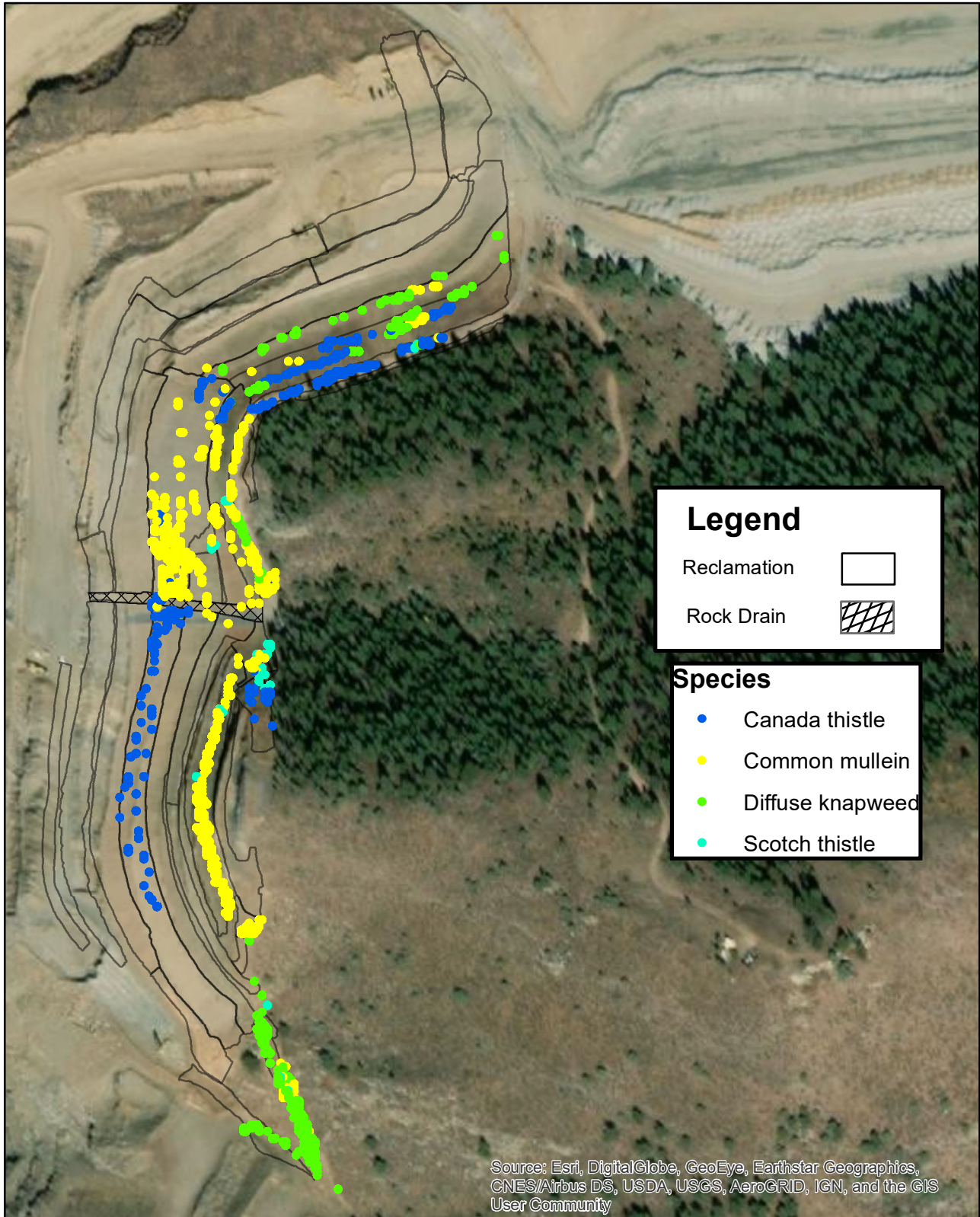
Use Pattern: Weeds and Algae

Is equipment properly calibrated? Yes

Did you conduct visual monitoring for adverse incidents? Yes

Were any adverse incidents identified? No

Walstrum Quarry Reclamation Weed Species Key



0 160 320 640 960 Feet



Walstrum Quarry Reclamation Overview

Created By: JF

Reviewed By: MC

Date Created:
01/23/2019

Date Revised:
06/16/2020