



March 25, 2019

State of Colorado
Division of Reclamation, Mining and Safety
Department of Natural Resources
1313 Sherman ST., Room 215
Denver, CO 80203

Exhibit E – Reclamation Plan

To whom it may concern,

The proposed mining activities for the Hale Sand Pit Expansion will be performed in 10-acre maximum blocks. Each block will be disturbed, mined, and then reclaimed before mining activities begin in the next block. The topsoil from the site will be used to create an earthen berm along the floodplain boundary.

The reclamation process will be as noted below:

1. The topsoil will be moved back over the disturbed area and regraded at no more than 4:1 slopes, although it is expected that the reclaimed condition will match existing slopes (+/- 1.0%).
2. Topsoil will be applied to a minimum 3" of depth and greater if resource is available.
3. Apply 50# nitrogen (1.2# per 1,000 ft²) and 50# phosphate (1.2# per 1,000 ft²) to topsoil.
4. Revegetation will be performed by using the following seed mix:

<u>SPECIES</u>	<u>VARIETY</u>	<u>100% RATE</u>	<u>PROPOSED MIXTURE</u>
Sideoats Grama	Vaughn	9.0# PLS*	50%
Pubescent Wheatgrass	Luna	14.0# PLS*	30%
Crested Wheatgrass	Nordan	10.0# PLS*	20%

*PLS = Pure Live Seed

5. Drill grasses with adapted grass drill equipment having depth bands and press wheels. Time of drilling February 1 to May 15 or October 15 to freezeup. Depth of seeding is 1-3" to ½" deep.
6. Apply mulch – 4,000# per acre of native grass hay or wheat straw. This needs to be crimped in. This operation is done after seeding and fertilizing.

Final stabilization shall be achieved and accepted by El Paso County within 8 months post reclamation.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

John Heiberger, P.E., Senior Project Manager

