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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangert  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

May 6, 1991

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Dear Mr. 2~:

Re: Updated Seed Mixes, Consolidation Coal Company, Emery Deep Mine,  
ACT/015/015-91A, Folder #2, Emery County, Utah

Enclosed is one (1) copy of Consolidation Coal Company's final approved plans for PAP Amendment for the Emery Deep Mine in Emery County, Utah. This material should be used to update your file copy of the approved Permit Application Package (PAP) for this mine.

The Division approved this permit change on May 3, 1991. If you have any questions or need information, please contact me at your earliest convenience.

Sincerely,

A handwritten signature in cursive script that reads "Daron R. Haddock".

Daron R. Haddock  
Permit Supervisor

mbm  
Enclosure  
BT015015.CCC

Mr. Peter A. Rutledge, Chief  
Division of Federal Programs  
Western Field Operations  
Office of Surface Mining  
Brooks Towers, 1020 15th Street  
Denver, Colorado 80202

Mr. Robert Hagen, Director  
Office of Surface Mining  
Reclamation and Enforcement  
Suite 310, Silver Square  
625 Silver Avenue, S. W.  
Albuquerque, New Mexico 87102

Mr. Gary Johnson, Supervisor  
Price Coal Office  
Bureau of Land Management  
900 North 700 East  
Price, Utah 84501

Mr. Randy Heuscher, Chief  
Branch of Mining Law and Solid Minerals  
Bureau of Land Management  
324 South State Street, Suite 301  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

Mr. Gene Nodine  
District Manager  
Bureau of Land Management  
Moab District  
82 East Dogwood  
P. O. Box 970  
Moab, Utah 84532

Mr. Timothy H. Provan, Director  
Utah Division of Wildlife Resources  
1596 West North Temple  
Salt Lake City, Utah 84116

Mr. Ken Phippin, Resource Analyst  
Utah Division of Wildlife Resources  
455 West Railroad Avenue  
Price, Utah 84501

Mr. Stephen Demczak  
Reclamation Specialist  
Division of Oil, Gas and Mining  
Price Field Office  
451 East 400 North  
Price, Utah 84501-2699

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MAY 03 1991

DIVISION OF  
OIL GAS & MINING

Consolidation Coal Company  
Mid-Continent Region  
12755 Olive Boulevard  
St. Louis, Missouri 63141  
(314) 275-2300

May 1, 1991

Mr. Daron R. Haddock  
Permit Supervisor  
Utah Division of Oil, Gas and Mining  
355 W. North Temple  
3 Triad Center - Suite 350  
Salt Lake City, UT 84180-1203

Dear Mr. Haddock:

Re: Emery Mine, Permit #ACT/015/015  
Amendment Request to Update Proposed Seed Mixes

In accordance with Condition #3 found in Attachment A of the renewed mining permit for the Emery Mine, Consolidation Coal Company requests that the proposed seed mixes be amended by adding the following species at the specified seeding rates:

Seed Mixes: a. Mixed Desert Shrub  
b. Greasewood

Sand dropseed	0.1 # PLS/Ac.
Gardner saltbush	2.0 # PLS/Ac.
Black sagebrush	0.25 # PLS/Ac.

Seed Mix: c. Riparian Mix

Jones reedgrass	1.0 # PLS/Ac.
Gooseberryleaf globemallow	1.0 # PLS/Ac.
Alfalfa (ladak variety)	1.0 # PLS/Ac.
Winterfat	1.0 # PLS/Ac.
Fourwing saltbush	2.0 # PLS/Ac.
Woods rose	1.0 # PLS/Ac.

Revised Pages 21 and 22 in Chapter VIII of the permit renewal application package are attached and include the additional seed mix species.

If you have any questions concerning this request, please contact Richard Denning at the above location.

Sincerely,



Kevin L. Cheeks  
Supervisor  
Environmental Quality Control

KLC;rjd:vms  
Attachments

VIII.C.4 UMC 817.111 REVEGETATION: GENERAL REQUIREMENTS

Our revegetation plan is as follows:

Soil testing will be conducted on the reclamation sites before seeding takes place. Based on the soil testing reports, soil amendments will be added, if necessary, to enhance vegetation establishment.

A firm seedbed will be prepared through discing, cultivating, harrowing and other conditioning practices that are necessary, depending on the soil texture and soil condition at this time. During the seedbed preparation, fertilizer will be broadcast onto the soil and incorporated.

Plant species for (UMC 817.112) revegetation were selected on the basis of their compatibility with both wildlife and livestock. Also included in our seeding mixes are introduced species due to their improved establishment rate. The following seed mixes will be seeded:

- a. Arid mix to revegetate mixed desert shrub and annual forb community.

<u>Species</u>	<u>Pounds of Pure Live Seed/Acre</u>
Indian ricegrass	3.0
alkali sacaton	0.5
galleta	2.5
western wheatgrass	3.0
winterfat	4.0
4-wing saltbush	4.0
rubber rabbitbrush	1.0
yellow sweetclover	1.5
desert globemallow	0.5
blueleaf aster	0.5
sand dropseed	0.1
Gardner saltbush	2.0
Black sagebrush	0.25
	<u>22.85</u>

- b. Mesic mix to revegetate a greasewood community.

<u>Species</u>	<u>Pounds of Pure Live Seed/Acre</u>
blue grama	0.75
streambank wheatgrass	3.0
sand dropseed	0.25
winterfat	4.0
4-wing saltbush	4.0
rubber rabbitbrush	1.0
big sagebrush	0.25
greasewood	2.5
yellow sweetclover	1.0
blue flax	1.0
evening primrose	0.5
sand dropseed	0.1
Gardner saltbush	2.0
Black sagebrush	0.25
	<u>20.6</u>

c. Riparian mix to revegetate riparian meadow sites.

<u>Species</u>	<u>Pounds of Pure Live Seed/Acre</u>
western wheatgrass	5.0
slender wheatgrass	3.0
alkali sacaton	0.25
Spike Muhly (only one available)	0.25
alkalagrass	0.5
yellow sweetclover	1.5
blueleaf aster	0.5
Indian blanket	1.0
Jones reedgrass	1.0
gooseberry leaf globemallow	1.0
alfalfa (ladak variety)	1.0
winterfat	1.0
fourwing saltbush	2.0
woods rose	1.0
	<u>19.0</u>

All grass and shrub seeding will be performed using a drill when moisture is adequate for germination, emergence, and establishment.