



Alton Coal Development, LLC

Florida Extension Office
6602 Ilex Circle
Naples, Florida 34109
Phone (239) 825-2332

02/09/2017

Daron R. Haddock
Coal Program Manager
Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

Subject: **2016 OSM Over-site Inspection follow-up changes, Alton Coal Development, LLC, Coal Hollow Mine, Kane County, Utah, C/025/0005**

Dear Mr. Haddock,

Alton Coal Development, LLC (ACD) is submitting this amendment in response to the June 13, 2016 OSM over-site inspection. At the Divisions request, final changes were made to Drawing 3-1, to remove the Pinyon/Juniper reference area. Also, the table on 3-53, the diversity column was removed and the reference area for Pinyon/Juniper Areas on both 3-27 and 3-53 indicate that they will be compared to the Sagebrush/Grass Reference Areas.

Changes to the MRP associated with this amendment have been uploaded to the DOGM's server for review. Upon approval, 2 (two) clean hard copies of the text for insertion into the MRP will be submitted. Please do not hesitate to contact me if you have any questions 435-691-1551.

Sincerely

B. Kirk Nicholes
Environmental Specialist

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change New Permit Renewal Exploration Bond Release Transfer

Permittee: Alton Coal Development, LLC

Mine: Coal Hollow Mine

Permit Number:

C/025/0005

Title: 2016 OSM Over-site Inspection

Description, Include reason for application and timing required to implement:

Instructions: If you answer yes to any of the first eight questions, this application may require Public Notice publication.

- Yes No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ increase decrease.
- Yes No 2. Is the application submitted as a result of a Division Order? DO# _____
- Yes No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes No 4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes No 6. Does the application require or include public notice publication?
- Yes No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes No 9. Is the application submitted as a result of a Violation? NOV # _____
- Yes No 10. Is the application submitted as a result of other laws or regulations or policies?

Explain: _____

- Yes No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes No 13. Does the application require or include collection and reporting of any baseline information?
- Yes No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes No 15. Does the application require or include soil removal, storage or placement?
- Yes No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes No 17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes No 19. Does the application require or include certified designs, maps or calculation?
- Yes No 20. Does the application require or include subsidence control or monitoring?
- Yes No 21. Have reclamation costs for bonding been provided?
- Yes No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes No 23. Does the application affect permits issued by other agencies or permits issued to other entities?
- Yes No 24. Does the application include confidential information and is it clearly marked and separated in the plan?

Please attach three (3) review copies of the application. If the mine is on or adjacent to Forest Service land please submit four (4) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

B. Kirk Nicholes Environmental Specialist 11/18/2016 *B. Kirk Nicholes*
 Print Name Position Date Signature (Right-click above choose certify then have notary sign below)

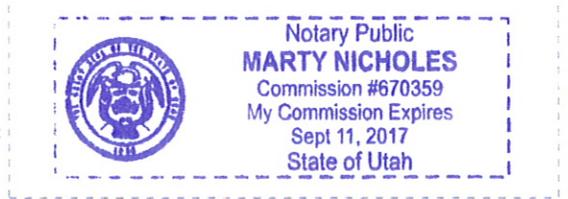
Subscribed and sworn to before me this 18 day of November, 2016

Notary Public: *Marty Nicholes*, state of Utah.

My commission Expires: 9-11-2017

Commission Number: 670359

Address: 11670 E Millstone Cir State: UT Zip: 84721



<p>For Office Use Only:</p>	<p>Assigned Tracking Number:</p>	<p>Received by Oil, Gas & Mining</p>
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Predator Control Plan

Several species that prey on sage-grouse eggs, chicks and adults live in the Alton region including common ravens (*Corvus corax*), American crows (*Corvus brachyrhynchos*) and coyotes (*Canus latrans*). ACD will coordinate with the appropriate government agency to help implement a predator control program to enhance survival of the sage-grouse in the area. The operator will not conduct the predator control measures but will assist the appropriate agency with developing technical expertise to formulate a plan to implement such a program through the appropriate government agency.

Restoration of Sagebrush Habitat (on-site mitigation)

After mining has been completed, reclamation specialists will return the original grade and valley form to approximate pre-disturbance conditions. An emphasis will be placed on restoring sagebrush ecosystems. Reclamation will include seeding similar plant species with comparable plant composition, structure and function as those of the original plant community. PJ communities will be restored to an earlier serial stage of sagebrush/grass plant community and thus sagebrush/grass success standards will be applied per the Divisions request. Final reclamation seed mixtures have been formulated to include forb species critical for survival of hens and their chicks.

Seed mixes that are used for reclamation will consist of native shrub, grass and forb species that provide cover and food. In order to accelerate shrub re-establishment, bareroot or containerize sagebrush and bitterbrush transplants can be planted (in addition to sage-grouse preferred forb species) to enhance sagebrush ecosystem restoration (see Coal Hollow Project, Mining & Reclamation Plan, Chapter 3, Revegetation Seed Mixtures). cursory surveys conducted on April 30, 2006 found that there is a low probability that a dominant invasive species (i.e. cheatgrass, medusahead) could establish on reclaimed sites. However, post-reclamation surveys will be conducted for undesirable invasive plants. If a breakout does occur, mechanical and/or chemical treatments will be applied.

Primary brood-rearing habitat in the Alton valley is associated with alfalfa fields near the town of Alton. Birds likely utilize these areas due to the availability of forbs, insects,

Revegetation success standards and postmining land uses at the Coal Hollow Mine, Utah

COAL HOLLOW LEASE

RECLAIMED AREA	TOTAL LIVING COVER	WOODY SPECIES DENSITY	PRODUCTION
Sagebrush/Grass ⁽⁶⁵⁾	Sagebrush/Grass Reference Area	10% of the total value in the Sagebrush/Grass Reference Area ⁽¹⁾	Sagebrush/Grass Reference Area
Pasture Land ⁽⁷⁾	64.50% ⁽⁶⁴⁾	No woody species density standard	1,100 lbs/ac ⁽⁸⁷⁾
Pinyon-Juniper ⁽⁶⁵⁾	49.75% ⁽⁴⁾ <u>Sagebrush/Grass Reference Area</u>	10% of the total value in the Pinyon-Juniper <u>Sagebrush/Grass Reference Area</u> ⁽¹⁾	700 lbs/ac ⁽⁹⁾ <u>Sagebrush/Grass Reference Area</u>
Meadow ⁽⁶⁵⁾	Meadow Reference Area	10% of the total value in the Meadow Reference Area ⁽¹⁾	Meadow Reference Area
Oak Brush ⁽⁶⁵⁾	Oak Brush Reference Area	10% of the total value in the Oak Brush Reference Area ⁽¹⁾	Oak Brush Reference Area
Meadow (Dry) ⁽⁶⁵⁾	Meadow (Dry) Reference Area	10% of the total value in the Meadow (Dry) Reference Area ⁽¹⁾	Meadow (Dry) Reference Area

NORTH PRIVATE LEASE

Pasture Land ⁽⁷⁶⁾	64.50% ⁽⁶⁴⁾	No woody species density standard	1,100 lbs/ac ⁽⁸⁷⁾
Sagebrush Drainage ⁽⁷⁶⁾ Sagebrush within the incised channels west of Kanab Creek channel (i.e. Sample Site: V-07)	Sagebrush Drainage Reference Area (Sample Site: V-03)	10% of the total value Sagebrush Drainage Reference Area ⁽¹⁾ (Sample Site: V-03)	Sagebrush Drainage Reference Area (Sample Site: V-03)
Wetlands ⁽⁷⁾	U.S. Army COE standards	U.S. Army COE standards	U.S. Army COE standards

(1) Can include shrubs and subshrubs. Rabbitbrush (*Chrysothamnus nauseosus*) cannot account for more than 10% of the total density.

(2) Recommended index: Diversity for Forbs; MacArthur=s Diversity Index for forbs.

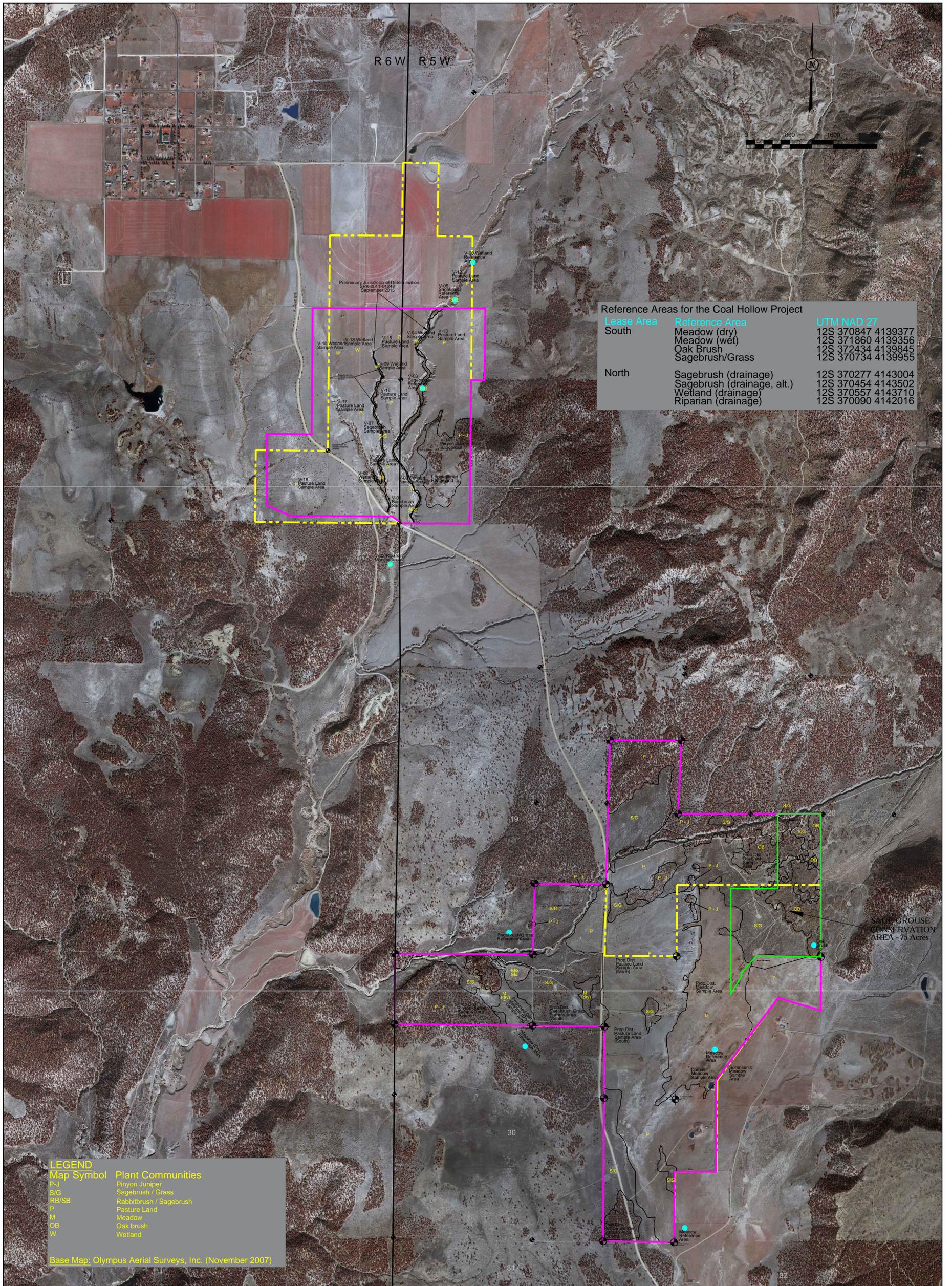
(3) Recommended index: Diversity for Grasses; MacArthur=s Diversity Index for grasses.

⁽⁶⁴⁾ This is the average total living cover measured for all Pasture Lands sampled (see Appendix 3-4 and Volume 12 for Pasture Land cover data).

⁽⁶⁵⁾ Postmining land use is primarily domestic grazing with limited wildlife use.

⁽⁷⁶⁾ Postmining Land use is domestic grazing.

⁽⁸⁷⁾ Refer to Volume 12, Table 43 for production information.



Reference Areas for the Coal Hollow Project		
Lease Area	Reference Area	UTM NAD 27
South	Meadow (dry)	12S 370847 4139377
	Meadow (wet)	12S 371860 4139356
	Oak Brush	12S 372434 4139845
	Sagebrush/Grass	12S 370734 4139955
North	Sagebrush (drainage)	12S 370277 4143004
	Sagebrush (drainage, alt.)	12S 370454 4143502
	Wetland (drainage)	12S 370557 4143710
	Riparian (drainage)	12S 370090 4142016

Map Symbol	Plant Communities
P-J	Pinyon Juniper
S/G	Sagebrush / Grass
RB/SB	Rabbitbrush / Sagebrush
P	Pasture Land
M	Meadow
OB	Oak brush
W	Wetland

Base Map: Olympus Aerial Surveys, Inc. (November 2007)

LEGEND: PERMIT AREA PRIVATE COAL FOUND SECTION CORNER FOUND PROPERTY CORNER REFERENCE AREA	DRAWN BY: K.NICHOLAS	CHECKED BY: LWJ	REVISIONS		VEGETATION MAP COAL HOLLOW PROJECT ALTON, UTAH DRAWING: 3-1	 Also Coal Development Coal Hollow Project
	DRAWING: 3-1	DATE: 8/22/16	DATE: 09/30/16	BY: KN		
	JOB NUMBER: SHEET	SCALE: 1" = 800'	DATE: 10/12/16	BY: KN		
	JOB NUMBER: SHEET	SCALE: 1" = 800'	DATE: 02/09/17	BY: KN		
463 North 100 West, Suite 1 Cedar City, Utah 84721 Phone (435)867-5331 Fax (435)867-1192						