C/025/005 Incoming

RECEIVED

JUN 21 2013

DIV. OF OIL, GAS & MINING

U.S. DEPT. OF THE INTERIOR
OFFICE OF SURFACE MINING
Mine Site Evaluation
State Program

1. Permittee/Person: ALTON COAL DEVELOPMENT LLC	9. Permit Number: ACT025005
2. Address: 463 N. 100 W., SUITE 1	10. Permit Type: PP
	11. Field Visit Date: 5/15/2013 (mm-dd-yyyy)
	12. Purpose: OP
	13. SRA Present: Y
3. City: CEDAR CITY	14. Permit Status: A
4. State: UT	15. Site Status: AP
	16. Facility Type: A
5. Zip Code: 84720	17. OSM Office #: 141
6. Phone Number: (435) 867-5331	18. CCID #:
	19. Land Code: S
7. Operator Name, if Different than Permittee:	20. M.S.H.A. ID #: 42-02519
	21. State Abbrev.: UT
	22. County/Burrough: KANE
8. Mine Name: COAL HOLLOW MINE	23. AVS Permittee Entity ID Number: 247248
	24. State Office:

25. Hours

5.0	a. Permit Review
3.0	b. Site Visit Time
19.0	c. Travel Time
6.0	d. Report Writing

26. Signature Block

Signature:

Elizabeth Shaeffer, ID#377

Printed Name:

Date: 6/18/2013

27. Reviewing Official:

Signature:

Review Date: 06-18-2013 (mm-dd-yyyy)

Is Supplemental MSE Page Used Y/N: Y

Permit Type - Item 10 IP = Interim Program PP = Permanent Program NP = No Permit

Purpose Type Codes - Item 12

Oxx...Oversight
Axx...Assistance
RFx..Reclamation Fees
Fxx...Federal Actions
CCR..Citizen Complaint Referral (non-site visit
CC.....Citizen Complaint (initial site visit)
CCF...Assistance

Joint Inspection - Item 13 A joint inspection is when a state inspector accompanies an OSM inspector at any time during the review of the mine site

Permit Status - Item 14

- A Active: Coal mining activities occurring or permitted but not yet disturbed.
- IN Inactive (Permanent Program Permit): Phase II completed or Temporary Cessation of Operations. (Interim Program Permit): Coal mining completed and reclamation activities initiated.
- BR Bond Release: Reclamation completed and State Regulatory Authority(RA) has released all of the bond (Phase III Release).
- AB Abandoned: All surface and underground coal mining activities have ceased and operator has left the site without completing reclamation as defined in 30 CFR 840:11(g).
- AB1 Bond Forfeiture: Bond forfeiture officially in process or completed and reclamation in progress or not yet commenced.
- AB2 Partially Reclaimed Forfeiture: Forfeited site where all bonds have been used to reclaim site, but site not reclaimed to Program standards.
- AB3 Reclaimed Forfeiture: Forfeited site that has been reclaimed to Program standards.
- NA Not Applicable: When site is unpermitted.

Site Status - Item 15

- ND No Disturbance: No coal mining and reclamation operations have been started.
- EX Coal Exploration: Coal exploration operations have started and where coal mining operations have not begun.
- AP Active Coal Producing: Coal surface mining activities are occurring.
- AN Active Non-Producing: Active non-producing facility such as tipple or preparation plant.
- NM No Mining: The Permit Status is active, site is not in Temporary Cessation, no surface coal mining activity, and site not regraded.
- MC Mining Complete: No mining activity on site, site regraded and awaiting bond release.
- TC Temporary Cessation: The RA has granted cessation of mining pursuant to 30 CFR 816/817:13(b).
- P1 Phase I Release: At least Phase I bond release granted for entire permitted area. For interim permits, partial bond release.
- P2 Phase II Release: At least Phase II bond release for the entire permitted area.
- P3 Phase III Release: Reclamation completed and the RA has released all bond.
- NS Non-Site Visit: Status of site not determined.
- FP Forfeiture Pending: The RA is pursuing actions to revoke the permit, collect the performance bond(s), and/or reclamation of forfeited site is in progress.
- FR Forfeited and Reclaimed: Forfeiture reclamation completed.
- FO Abandoned Site: Abandoned site that is permitted but there is no bond.
- WC Wildcat: Coal mining and reclamation operations have or are taking place and the activity is not covered by the required permits from the RA.

Facility Type Codes - Item 16

A....Surface
B....Underground
C....Preparation Plant
D....Ancillary (Haulroad, Conveyor, and/or Rails
E....Refuse and/or Impoundment
F....Loading Facility and/or Tipple
G....Stockpiles
H...Exploration Permits
I....Notice of Intent to Explore
J....Exempt 16 and 2/3
K....Government Financed Construction Exemption
L....Remining site permitted under 30 CFR 785.25

Small Business Regulatory Enforcement Fairness Act (SBREFA)
Your Comments are Important

The Small Business and Agriculture Regulatory Enforcement Ombudsman and 10 Regional Fairness Boards were established to receive comments from small businesses about Federal agency enforcement actions. The Ombudsman will annually evaluate the enforcement activites and rate each agency's responsiveness to small business. If you are a small business (a business with 500 or fewer employees including those of affiliates) and wish to comment on the enforcement or compliance activities of OSM, call 1-888-REG-FAIR (1-888-734-3247).

U.S. DEPT. OF THE INTERIOR
OFFICE OF SURFACE MINING
Mine Site Evaluation

Permittee/ Person	ALTON COAL DEVELOPMENT LLC	Permit Number	ACT025005	Field Visit Date	5/15/2013	State Program Continuation Page

28. Performance Standard Categories

Codes:1=Compliance, 2=Noncompliance, 3=Not Planned, 4=Not Started, 5=Noncompliance Identified Elsewhere, 6=Previously Cited, 7=Permit Defect

A. Administrative
1. 1 Mining within Valid Permit
2. 1 Mining within Bonded Area
3. ___ Terms & Conditions of Permit
4. ___ Liability Insurance
5. ___ Ownership and Control
6. ___ Temporary Cessation
7. ___ AML Rec. Fees - Non-Respondent
8. ___ AML Rec. Fees - Failure to Pay

B. Hydrologic Balance
1. 1 Drainage Control
2. ___ Inspections & Certifications
3. ___ Siltation Structures
4. 1 Discharge Structures
5. 1 Diversions
6. ___ Effluent Limits
7. ___ Ground Water Monitoring
8. ___ Surface Water Monitoring
9. ___ Drainage - Acid-Toxic Materials
10. 1 Impoundments
11. 1 Stream Buffer Zones

C. Topsoil & Subsoil
1. ___ Removal
2. ___ Substitute Materials
3. 1 Storage and Protection
4. ___ Redistribution

D. Backfilling & Grading
1. ___ Exposed Openings
2. ___ Contemporaneous Reclamation
3. ___ Approximate Original Contour
4. ___ Highwall Elimination
5. ___ Steep Slopes (includes downslope)
6. ___ Handling of Acid and Toxic Materials
7. ___ Stabilization (rills and gullies)

E. Excess Spoil Disposal
1. ___ Placement
2. ___ Drainage Control
3. ___ Surface Stabilization
4. ___ Inspections & Certifications

F. Coal Mine Waste (Refuse Piles/Impoundments)
1. ___ Drainage Control
2. ___ Surface Stabilization
3. ___ Placement
4. ___ Inspections & Certifications
5. ___ Impounding Structures

G. Use of Explosives
1. ___ Blaster Certification
2. ___ Distance Prohibitions
3. ___ Blast Survey/Schedule
4. ___ Warnings & Records
5. ___ Control of Adverse Effects

H. ___ Subsidence Control Plan

I. Roads
1. 1 Road Construction
2. ___ Certification
3. 1 Drainage
4. 1 Surfacing and Maintenance
5. ___ Reclamation

J. Signs & Markers
1. 1 Signs
2. 1 Markers

K. ___ Distance Prohibitions

L. Revegetation
1. 1 Vegetative Cover
2. 1 Timing

M. ___ Postmining Land Use

N. Other

General Performance Category		

Performance Standard Categories
30 CFR Counterparts

A. Administrative
1. Valid Permit — 773.11
2. Mining within Bonded Area — 773.11
3. Terms & Conditions of Permit — 773.17
4. Liability Insurance — 800.60
5. Ownership and Control — 778.13
6. Temporary Cessation — 842.11(e) & 816/817.131
7. AML Rec. Fees – Non-Respondent — 870.15(b)
8. AML Rec. Fees – Failure to Pay — 870.15(a)

B. Hydrologic Balance — (816/817.41-57)
1. Drainage Control — 45
2. Inspections & Certifications — 49(a)(10)
3. Siltation Structures — 46
4. Discharge Structures — 47
5. Diversions — 43
6. Effluent Limits — 42
7. Ground Water Monitoring — 41(c)
8. Surface Water Monitoring — 41(e)
9. Drainage--Acid - Toxic Materials — 41(f)
10. Impoundments — 49
11. Stream Buffer Zones — 57

C. Topsoil & Subsoil — (816/817.22)
1. Removal — 22(a)
2. Substitute Materials — 22(c)
3. Storage and Protection — 22(c)
4. Redistribution — 22(d)

D. Backfilling & Grading — 816/817.95-107)
1. Exposed Openings — 816/817.13, 14, 15, & 823.11 & 21
2. Contemporaneous Reclamation — 100
3. Approximate Original Contour — 102(a)(1)
4. Highwall Elimination — 102(a)(2)
5. Steep Slopes (includes downslope) — 107
6. Handling of Acid & Toxic Materials — 102(c)
7. Stabilization (rills and gullies) — 95(b)

E. Excess Spoil Disposal — (816/817.71-74)
1. Placement — 71(e)
2. Drainage Control — 71(f)
3. Surface Stabilization — 71(g)
4. Inspections & Certifications — 71(h)

F. Coal Mine Waste (Refuse Piles/Impoundments) — 816/817.81-84)
1. Drainage Control — 83(a)
2. Surface Stabilization — 83(b)
3. Placement — 83(c)
4. Inspections and Certifications — 83(d)
5. Impounding Structures — 84

G. Use of Explosives — (816/817.61-68)
1. Blaster Certification — 61(c)
2. Distance Prohibitions — 61(d)
3. Blast Survey/Schedule — 62-64
4. Warnings & Records — 66 & 68
5. Control of Adverse Effects — 67

H. Subsidence Control Plan — (817.121-122)

I. Roads — (816/817.150-151)
1. Road Construction — 150(c)
2. Certification — 151(a)
3. Drainage — 150(b)-151(d)
4. Surfacing and Maintenance — 150(a)-151(d)
5. Reclamation — 150(f)

J. Signs & Markers — 816/817.11)
1. Signs — 11(a),(b),&(c)
2. Markers — 11(a),(b),(d),(e),&(f)

K. Distance Prohibitions — (761.11)

L. Revegetation — (816/817.111-116)
1. Vegetative Cover — 111 & 116
2. Timing — 113

M. Postmining Land Use — (816/817.133)

OSM Action
1) Deferred to State Action
2) TDN Issued
3) NOV Issued
4) FTA-CO Issued
5) IH-CO Issued
6) IO-CO Issued (Imminent Danger to Public)
7) Previously cited by RA, abatement pending
8) Abated during or before OSM inspection
9) Follow-up of Federal Action
0) Off-site impact with no violation

Off-Site Impacts
For each type of impact and resource affected, enter "N, D, or J" to describe the degree of off-site impact:
N - Minor Occurrence
D - Moderate Occurrence
J - Major Occurrence

Revised October 1, 2010

Coal Hollow Mine Evaluation

Coal Hollow Mine, Alton Coal Development (ACD)
Utah Division of Oil, Gas, and Mining (DOGM) Permit No. UT-025-0005

May 15, 2013, 11:00 – 3:30

Weather conditions: 68 degrees, windy, partly cloudy

Participants: Joe Helfrich, DOGM
Karl Houskeeper, DOGM
Howard Strand, OSM
Elizabeth Shaeffer, OSM, Badge #377
Kirk Nicholes, Alton Coal Development

Background:

The purpose of this evaluation was to evaluate whether DOGM (the Division) is implementing its approved regulatory program by ensuring that the Utah program is successful in preventing offsite impacts to listed or proposed threatened or endangered species by ensuring that operators follow a *Protection and Enhancement Plan* to minimize disturbances and adverse impacts to threatened and endangered species (when species are identified within the permit area) as a result of mining activities, and whether mine operators are complying with applicable regulatory and permit requirements pertaining to the minimization of adverse impacts to threatened and endangered species and their habitat during coal mining and reclamation operations.

The Federal Rules at 30 CFR 816/817.97(b) and Utah Administrative Code at R645-301-358.100 state that:

> "No coal mining and reclamation operation will be conducted which is likely to jeopardize the continued existence of endangered or threatened species listed by the Secretary or which is likely to result in the destruction or adverse modification of designated critical habitats of such species in violation of the Endangered Species Act of 1973. The operator will promptly report to the Division any state- or federally-listed endangered or threatened species within the permit area of which the operator becomes aware. Upon notification, the Division will consult with appropriate state and federal fish and wildlife agencies and, after consultation, will identify whether, and under what conditions, the operator may proceed."

The Division requires that each *Mining and Reclamation Plan (MRP)* include a list of proposed or listed threatened or endangered species and the probability of presence in the permit area. In some circumstances, the Division may require surveys or other site-specific resource information necessary to address the respective species or habitats when the permit area or adjacent area is likely to include listed or proposed endangered or threatened species of plants or animals or their critical habitats. The Division requests that this list and site-specific resource information be updated when the operator wants to increase or change their permit area or mining practices.

If a listed or proposed endangered or threatened species of plants or animals or their critical habitat is identified on the permit area, the Division consults with the appropriate State and Federal fish and wildlife agencies and the landowner to determine under what conditions the operator may proceed with mining. These conditions may include avoiding certain areas, developing a habitat mitigation plan, animal or plant relocation, periodic surveys, or a combination of these.

The Team visited the Coal Hollow Mine in May of 2012 to evaluate this special focus topic. Because sage grouse habitat protection measures were in the early stages of being employed by the Mine, the Team decided to carry the evaluation into EY 2013 to determine if the strategies implemented by the Mine had a positive effect on sage grouse and their habitat.

The documents reviewed for this evaluation include:

- Coal Hollow Mining and Reclamation Permit (MRP) Volume 2, Chapter 3 Text
- Coal Hollow MRP Volume 2, Chapter 3 Appendices 3-5
- Coal Hollow MRP Volume 2, Chapter 3 Appendices 3-6, *Greater Sage grouse population monitoring and habitat improvement*, incorporated April 11, 2013
-
- Coal Hollow MRP Drawing 3-5, *Sage Grouse Brood Habitat Map*
- 2012 Progress Report for Sage grouse (currently under review by Utah Division of Wildlife Resources (DWR), DOGM, and the U.S. Fish and Wildlife Service (FWS)

Threatened and Endangered Species:

Mexican Spotted Owl

The Utah Division of Wildlife Resources (DWR) has conducted raptor surveys for all potential raptor species in the mine project area and did not find habitat for the Mexican Spotted Owl (MSO). However, MSO habitat does occur in the Dixie National Forest to the east and west of the Alton area.

Colorado River Fish

Impacts to endangered Colorado River Fish, including the Colorado pikeminnow, razorback sucker, humpback chub, and bonytail fish that inhabit the lower warm water reaches of the Colorado, Green, Yampa, White, and Gunnison Rivers is also a concern regarding the protection of T and E species. Currently, Utah participates in the Upper Colorado River Endangered FishRecovery Program (established in 1988 by The Secretary of the Interior, Governors of Colorado, Wyoming, and Utah, and the Administrator of the Western Area Power Administration) as a way to offset water depletions, thereby providing a method to mitigate the impacts to endangered fish. As part of the recovery program, calculations must be performed to determine if consumption of water from coal mining is contributing or will contribute to water depletions, thereby affecting fish habitat.

During the processing of a new permit application, a determination must be made as to the amount of water that will be depleted from the upper Colorado River Watershed as a result of the proposed coal mining activity. Existing coal mine operations have been required to revisit the

water depletion calculations if a proposed change to the MRP has the potential to significantly increase the amount of depletion from the Colorado River Watershed.

The Coal Hollow Mine was not required to submit water consumption calculations because the mine is not within the Upper Colorado River Basin, the specific area delineated and directed to comply with the Recovery Program.

Sage Grouse

Although not officially registered as a T and E species, much attention has been given to the sage grouse as it is currently a "candidate species for listing." The mine area contains "Crucial Value brood habitat" for the birds. The Bureau of Land Management (BLM) and the DWR located a sage grouse lek in the proposed mine area. In 2005, BLM biologists captured, collared, and began monitoring four sage grouse in an effort to study the lifecycle and migrating patterns of these birds. In April of 2006, ACD began its own sage grouse studies. In 2007, Southern Utah University and ACD joined the BLM and DWR in capturing, taking blood samples, and placing radio transmitters on sage grouse. In April of that year, ACD conducted two helicopter flights to search for satellite sage grouse leks. Recently, the BLM acquired money for several GPS collars, which were placed on selected sage grouse in 2013. Additional collars will be placed on the grouse in 2014 to aid in determining migratory patterns of the birds and connectivity with other leks in the Sink Valley area. Monthly monitoring of sage grouse is also conducted by ACD from August to April each year, primarily by using a spotlight to count the birds at night. Monthly vegetation surveys are also conducted beginning in early fall.

In addition to studying the sage grouse, the mine is implementing techniques determined collectively by the Mine, DOGM, DWR, and the Natural Resources Conservation Service to improve the habitat for the birds. Landscape with many sagebrush plants is essential for sage grouse habitat. Single juniper trees that are scattered throughout sagebrush communities are ideal locations for predatory species to perch and hunt the sage grouse. To encourage sage grouse survival, over 10,000 juniper trees had been removed by plucking equipment prior to mining. This equipment pulls the entire tree (including roots) out of the ground. This technique causes minor impacts to the existing, essential sagebrush community. Additionally, the Mine has employed a "lop and scatter" method, where the limbs of the trees are cut off and scattered on the ground below. The BLM also continues to perform a technique known as "bull hogging," where entire trees (mainly pinion and juniper) are mulched to increase the production of grasses and forbs.

Inspection:

For the filed component of this evaluation, the Team visited the conservation area, the vegetation treatment area, the "shifted" or current lek area for the past two seasons, and the traditional/historic lek area.

The "conservation" area includes 76 acres, only a few of which have been treated. The area also consists of deep overburden that ACD may potentially mine under but protect the surface. In 2010, the mine employed an experimental practice (mosaic landscape with 15 percent sage brush

cover) on approximately 2½ acres that fall within the general footprint of the habitat area. Prior to mining, this area contained mostly pinion juniper, which is not ideal sage grouse habitat.

The "vegetation treatment" area consists of 160 acres that do not fall in the permit boundary. , Eighty-five of these acres have received rabbit brush treatment (spray). The mine implemented the "lop and scatter" method on trees in the area as part of the 2012 mitigation effort. Random vegetation sampling was also conducted in the area to determine the success of rabbit brush reduction treatment.

The "shifted" or current lek area encompasses approximately 100 acres of BLM land and is where lekking has occurred during the past two seasons.

The "traditional/historic" lek area is where nesting and brooding takes place and consists of approximately 160 acres, 80 of which are considered "core acres". An average l of 20-30 birds have been counted in the lek and nesting and brood rearing areas since 2010., During the 2013 lek counts an average of 12 birds (mostly males) were observed displaying approximately ¼ mile West of the traditional lek. However 3 males were also observed on the traditional lek by a Division of Wildlife Resources (DWR) biologist. The previous year's (2012) lek survey data also indicated that the majority of the birds were lekking ¼ mile west of the mine. The lek count data for 2013 indicates that the # of displaying males (12) was within several birds of the total observed prior to mining.

Past efforts have been made to establish a corridor between lekking areas on the permit and the large leks to the north of the current permit area. This connectivity is thought to greatly increase the chances of survival for the birds. To open up this corridor, many pinion juniper stands had been removed.

The mine proposed reclamation seed mixtures that include plant species which sage grouse depend on for food and cover. Areas that are currently dominated by grass species will be seeded with big sagebrush and black sagebrush, which provide excellent nesting habitat for the grouse.

Various State agencies have combined their efforts to create a plan for the protection and enhancement of sage grouse habitat. Due to the status of Greater Sage-grouse as a candidate species for listing under the Endangered Species Act, State wildlife agencies have encouraged greater protection, enhancement and mitigation of sage-grouse habitat. On February 14, 2013, the Governor approved the Greater Sage-grouse Plan, which includes protective measures to prevent the Sage-grouse from being listed, including a one-mile lekking buffer and a 3 mile buffer from the lek for nesting, brood rearing and wintering activities. DOGM has encouraged ACD to work with numerous agencies to further develop sage grouse habitat. ACD's future Federal lease application and its associated Reclamation Plan will be affected by the Governor's action.

<u>Pending Habitat Improvements</u>
ACD submitted an addendum to Appendix 3-6, *The 2012 Progress Report,* currently under review by DOGM, DWR and FWS. This document includes the results of predator control

efforts, vegetation treatment, and grouse and vegetation monitoring efforts. DOGM will consult with DWR and FWS and make recommendations to ACD regarding habitat improvement for the sage grouse.

Additional Inspection Items:

The Coal Hollow Mine has 635.64 permitted acres, 289 of which are disturbed. No bond release has occurred.

Signs and Markers
Mine identification signs were observed at both the main access point (near the mine office) and the south end of the permit area. The Mine Identification signs contained all the required information (mine name, phone number, address, and permit number) (Photo 11726). Stream buffer zones signs were seen near Robinson Creek (Photo 11727).

Hydrology
The mine is currently constructing Pond 4 at the south end of the permit area near proposed Pit 28 (Photo 11728). The construction of this pond could potentially affect sage grouse brood-rearing habitat, since the young need more time brood before they are able to relocate to an area that is not being disturbed. The pond is being constructed to capture sedimentation from the proposed mining sequence, which progresses from north to south.

From a vantage near the Pit 9 overview looking south, the Team saw a newly- constructed drainage (Diversion Ditch #1) along the east side of the permit connecting to the Pond 4 area. This pond will be approximately 3.6 acre-feet, even though only 2.1 acre-feet are required for the disturbed area. ACD's original design was for a 5.7 acre-feet pond, but during construction the mine encountered the water table at the east end of the pond and subsequently had to modify the pond's design. The outlet will be located on the north east end of the pond.

Pond 1 was being pumped for dust control water (Photo 11729). Ponds 1 and 1B (which collects Pond 1 overflow and road runoff) were functioning as designed (Photo 11730). Pond embankments appeared stable. The Pond 1 discharge culvert is UPDES outfall 001. The Pond 1B discharge culvert is UPDES outfall 1B.

We inspected the Pond 3 expansion project (Photo 11731). DOGM requested that this pond's capacity be increased after consecutive storm events in 2010 caused the pond to overtop. This pond discharges to Robinson Creek, which connects with Kanab Creek.

Active Mining
Pit 9 is currently being mined. A lower bench in Pit 9 was being prepared for a blast (flagging marks the blast holes to be drilled). Pits 6, 7, and 8 are currently taking backfill (Photo 11732). We stood on top of future Pit 10 to gain an overview perspective of active operations. From this point, as mining progresses eastward, the coal dips more steeply with increasing elevation and overburden.

Potential Compliance Issues:

DWR and DOGM are currently in discussions as to how to proceed with and resolve the issues related to (1) ACD's change in mining sequence (approved by DOGM April 19, 2013) and (2) the subsequent construction of Pond 4 and Diversion Ditch #1, which could potentially affect the Alton lek area and critical nesting and brood rearing habitat.

OSM will monitor and report on the outcome of these discussions once a determination is made in our EY 2013 Utah Annual Evaluation Report.

I&E Inspection Photos

Permit: ACT025005 Inspection Date: 5/15/2013

Permittee: ALTON COAL DEVELOPMENT LLC

Notes:

Photo ID: 11726

Photographer: SM\ESHAEFFER

Date Taken: 5/15/2013

State: UT

County: KANE

Latitude: 0.00000000

Longitude: 0.00000000

Subject: MINE ID SIGN

Mine Name: COAL HOLLOW MINE

Notes:

Photo ID: 11727

Photographer: SM\ESHAEFFER

Date Taken: 5/15/2013

State: UT

County: KANE

Latitude: 0.00000000

Longitude: 0.00000000

Subject: STREAM BUFFER ZONE

Mine Name: COAL HOLLOW MINE

I&E Inspection Photos

Permit: ACT025005 Inspection Date: 5/15/2013

Permittee: ALTON COAL DEVELOPMENT LLC

Notes:

Photo ID: 11728

Photographer: SM\ESHAEFFER

Date Taken: 5/15/2013

State: UT

County: KANE

Latitude: 0.00000000

Longitude: 0.00000000

Subject: POND 4 CONSTRUCTION

Mine Name: COAL HOLLOW MINE

Notes:

Pumping for dust control

Photo ID: 11729

Photographer: SM\ESHAEFFER

Date Taken: 5/15/2013

State: UT

County: KANE

Latitude: 0.00000000

Longitude: 0.00000000

Subject: POND 1

Mine Name: COAL HOLLOW MINE

I&E Inspection Photos

Permit: ACT025005 Inspection Date: 5/15/2013

Permittee: ALTON COAL DEVELOPMENT LLC

Notes:

Photo ID: 11730

Photographer: SM\ESHAEFFER

Date Taken: 5/15/2013

State: UT

County: KANE

Latitude: 0.00000000

Longitude: 0.00000000

Subject: POND 1B

Mine Name: COAL HOLLOW MINE

Notes:

Photo ID: 11731

Photographer: SM\ESHAEFFER

Date Taken: 5/15/2013

State: UT

County: KANE

Latitude: 0.00000000

Longitude: 0.00000000

Subject: PON D3 EXPANSION PROJECT

Mine Name: COAL HOLLOW MINE

I&E Inspection Photos

Permit: ACT025005 Inspection Date: 5/15/2013

Permittee: ALTON COAL DEVELOPMENT LLC

Notes:

Overview Photo

Photo ID: 11732

Photographer: SM\ESHAEFFER

Date Taken: 5/15/2013

State: UT

County: KANE

Latitude: 0.00000000

Longitude: 0.00000000

Subject: ACTIVE MINING OF PIT 9

Mine Name: COAL HOLLOW MINE