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## Coal Hollow April 12 Inspection

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**Cheryl Parker** <cherylparker@utah.gov>

Wed, Apr 13, 2016 at 4:16 PM

To: Priscilla Burton <priscillaburton@utah.gov>, K Nich <knicholes@altoncoal.com>, Andrew Christensen <drew@altoncoal.com>, OGMCOAL DNR <ogmcoal@utah.gov>

Cc: Daron Haddock <daronhaddock@utah.gov>, Suzanne Steab <suzannesteab@utah.gov>

Kirk and Drew,

Attached is the inspection report from April 12, 2016. The Division will need follow up information regarding the first stretch of DD-08 and outfall of DD-06, as stated with Joe at the site and within the attached report. The remainder of concerns mentioned in the report will be address in the abatement of NOV 21174 to construct and maintain the site to the approved plan designs.

I will be in the office tomorrow and follow up with call to discuss the likely date of blasting and bonding situation as you move into Pit 2.

Please call me if you have any questions or concerns in the mean time.

Cheryl Parker, M.S., P.E.

Coal Program Engineer

801-538-5286

State of Utah

DNR - Division of Oil Gas & Mining

1594 W North Temple, Suite 1210

Salt Lake City, UT 84116



**201604012\_preblastingInspection.pdf**

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# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

# Inspection Report

Permit Number:	C0250005
Inspection Type:	PARTIAL
Inspection Date:	Tuesday, April 12, 2016
Start Date/Time:	4/12/2016 10:00:00 AM
End Date/Time:	4/12/2016 2:00:00 PM
Last Inspection:	Wednesday, April 06, 2016

Representatives Present During the Inspection:	
OGM	Cheryl Parker
OGM	Amanda Daniels
Company	Joe Kumpke

Inspector: Cheryl Parker

Weather: Sunny, 64

InspectionID Report Number: 5497

Accepted by: DHADDOCK  
4/13/2016

Permittee: **ALTON COAL DEVELOPMENT LLC**  
 Operator: **ALTON COAL DEVELOPMENT LLC**  
 Site: **COAL HOLLOW**  
 Address: **463 North 100 West, Suite 1, CEDAR CITY UT 84720**  
 County: **KANE**  
 Permit Type: **PERMANENT COAL PROGRAM**  
 Permit Status: **ACTIVE**

#### Current Acreages

721.00	<b>Total Permitted</b>
342.00	<b>Total Disturbed</b>
113.50	<b>Phase I</b>
	<b>Phase II</b>
	<b>Phase III</b>

#### Mineral Ownership

- Federal
- State
- County
- Fee
- Other

#### Types of Operations

- Underground
- Surface
- Loadout
- Processing
- Reprocessing

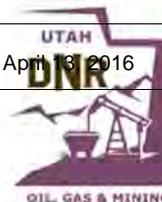
#### Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

The Coal Hollow Mine was inspected by the Division on April 12, 2016 for a pre-blasting inspection. Division staff arrived at the site and checked in at 10am at the Mine office trailer on the South Private lease. Joe Kumpke was the Division's staff guide for the entirety of the inspection. The inspection focused solely on the North Private Lease operations. All surface facilities within the North Lease were inspected including: Pit 1, diversion ditches, silt fences, ponds, haul roads, topsoil pile, subsoil piles, and temporary spoil pile. Active mining operations were taking place at the time of the inspection. Coal was being actively loaded from an excavator in Pit 1 to over-highway end dump trucks. A second excavator, haul trucks, and dozers were actively developing the pit crest working face south. The previous Inspection #5490 resulted in NOV 21174 for failure to follow approved plan. Activity at the site had commenced to meet the abatement of NOV 21174 including: fencing off the Topsoil pile and stopping haul trucks from crossing the public county road 3900, topsoil and subsoil recovery with active Pit 1 development area, see Drawing 1, pond and ditch repairs, and continued construction of County Road 3900 bypass.

Inspector's Signature

Cheryl Parker,  
Inspector ID Number: 70

Date Wednesday, April 13, 2016



**REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS**

1. Substantiate the elements on this inspection by checking the appropriate performance standard.
  - a. For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.
  - b. For PARTIAL inspections check only the elements evaluated.
2. Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS Check	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## **2. Signs and Markers**

The company sign was present at the two access points to the North Private Lease on the west side of County Road 3900 and at the access point to Topsoil pile on the eastern side of County Road 3900, see Photo 30 in Attachment A. All information presented on the three signs displayed the correct ownership and contact information.

## **3. Topsoil**

The current disturbance of the North Private lease is divided into two areas by the public county road K3900, which is still open to the public. K3900 will divide the site and remain open to the public until the by-pass is constructed. The approved topsoil pile for the North Private lease is currently the only facility feature located on the eastern side of K3900. The Topsoil pile is contained within a fenced area and has a berm completely around it, see Photo 30. After NOV 21174 was issued on 4/6/16 the Permittee fenced the access to the topsoil storage pile and ceased all off-road haul truck traffic crossing the county road. Part of the abatement for NOV 21174 included the salvaging of all topsoil within the approved Area 1 operations. Several small topsoil piles were created during the salvage operations around Area 1 as a result. Specifically of concern are three separate topsoil piles located throughout the site, as shown on Drawing 1. Photos 8 and 9 show the extent of Temporary topsoil pile 1, which was located on DD-07. Photos 19 through 23 show the two temporary topsoil piles, Temporary topsoil pile 2 and 3, located along DD-05 and the haul road out of NLPit 1. The Permittee was told at the time of the inspection to remove the temporary topsoil piles 2 and 3 to the location of temporary topsoil pile 1. Any remaining soil salvaging should also be located to temporary topsoil pile 1. The temporary topsoil pile should then be at a minimum bermed to control topsoil erosion. The Permittee indicated that upon completion of the County Road K3900 By-Pass all temporary topsoil piles will be relocated to the approved Topsoil stockpile area detailed on Drawing 5-48. NOV 21174 abatement deals with this issues and is due 4/15/16 by COD. Follow up is required for the relocation of the Topsoil piles and establishment of erosion protection.

#### **4.a Hydrologic Balance: Diversions**

The inspection included walking all the existing diversion within the North Private Lease Area 1. Drawing 1 show the GPS track of Division staff. There are no diversion features constructed east of K3900( DD-09, DD-10, DD-11). Diversion ditches DD-05 through DD-08 are constructed in Area 1 west of the existing K3900 road, as shown on Drawing 1. None of the culverts (C-1 or C-2) were installed at the time of the inspection, see photo 29).

The initial segment of DD-08 was graded out as a point of access for equipment to build the K3900 by pass was in place, see Photo 1 and 2. The Permittee was alerted for the potential of off-site impacts due to a lack of drainage control and was told to place a hardened crossing asap. The Permittee will follow up with the Division when this task is completed and include pictures as documentation. Photo 3 begins where DD-08 was graded at the time of the inspection. The Permittee was alerted to remove the remaining topsoil just north of DD-08 that is inhibiting sheet flow to enter DD-08, see Photo 3 and 4 of Attachment A. DD-08 will then be established to the typical design shown on MRP Drawing 5-65 and 5-72. The Division will follow up with the all ditch design and clean ups at the next inspection.

The second inlet to Pond 6 is the outfall of DD-07 seen in Photo 7. As stated previously, the ditch needs to be constructed to typical V Ditch approved designs instead of a tire track. The ditch must be free of loose material and flow as designed towards Pond 6. A temporary topsoil pile was present on the boundary of DD-07 that was not protected; see Temp Topsoil pile on Drawing 1 attached as well as Photos 8 and 9. The pile is associated with abatement activities with NOV 21174, so the Permit was altered to move the topsoil pile away from DD-07 and to construction a berm around the pile until it is moved to the approved topsoil pile location on the eastern side of K3900.

DD-06 begins at the top crest in elevation of DD-07, as shown on Drawing 1 attached. As stated previously, the ditch needs to be constructed to typical V Ditch approved designs instead of a tire track, see photo 10 and 11. The ditch must be free of loose material and flow as designed towards Pond 5. The Permittee and inspectors discussed reinforcing the southeast corner of DD-06, due to the potential for high erosion in the area. The higher erosion at this point is a result of the ditch slope change from an aggressively steep slope to a relevantly flatter slope, along with a focus point of sheet drainage of the pit area east of the ditch. This corner of DD-06 will be closely monitored by the Division as a likely point of ditch failure resulting in a potential off site impact. The outfall of DD-06 was not constructed properly and could result in potential off site impacts as it was graded with a tire track, see photo 12. The Permittee will address this item and re-establish DD-06 outfall into Pond 5 asap . The Permittee will follow up with the Division when this item has been addressed and include photo documentation.

The outfall of DD-05 is shown in photo 17 looking up gradient of the ditch. As stated previously, the ditch needs to be constructed to typical V Ditch approved designs instead of a tire track. The ditch must be free of loose material and flow towards Pond 5. Photo 19 -23 show the previously discussed topsoil piles along the ditch that must be removed. The permittee will also salvage the additional topsoil see in photo 24. The overall lack of ditch design and flow problems are part of NOV 21174 which has an abatement date of 4/15/16.

#### **4.b Hydrologic Balance: Sediment Ponds and Impoundments**

Photo 5 shows the outfall of DD-08 at the inlet of Pond 6. The Permittee recently repaired the south embankment of the pond as seen by the different colored dirt on the southern embankment in photo 5. The sediment clean out markers were installed since Inspection report #5490, as seen in Photo 6. The Primary spillway was installed with an oil skimmer but was not connected to the outfall culvert. The Permittee was alerted at the time of inspection that a new certified inspection by a Utah PE will be required.

Photo 13 shows Pond 5 from the southern end, Outfall of DD-06, looking north. The pond has been installed with the primary spillway with an oil decanter. The sediment marker was also installed since the previous inspection. Inspection 5490 called out specific repairs required to build the pond to design. The Permittee addressed how stakes had been placed detailed the required amount of additional fill (1-1.5 feet).

Photo 15 shows where the tracks over the embankment are along with the fill stakes. Photo 16 is standing on the pond embankment looking directly west. A silt fence is currently installed along the boundary as the outfall culvert has not been established yet. The Permittee was alerted at the time of inspection that a new certified inspection by a Utah PE will be required.

#### **4.c Hydrologic Balance: Other Sediment Control Measures**

ASCA 1 was not installed yet on the eastern side of K3900. Silt fences had been installed at the outfall embankments of Pond 6 and 5. Additional silt fence detailed on Drawing 5-48 along the eastern boundary of the disturbance area and K3900 was installed to control off site impacts.

#### **4.d Hydrologic Balance: Water Monitoring**

The Permittee is in the process of getting a UPDES, at this point in time Ponds 5 and 6 operate as total containment ponds.

### **5. Explosives**

The primary purpose of this inspection was to scout a potential site to establish the Division's borrowed seismography prior to any blasting activity. MRP Chapter 5 and Appendix 5-4 detail that the Permittee's blasting contractor will place a seismograph at the fishing pond north west of the permit boundary but within a ½ mile of the blasts. Ideally, the Division hoped to place the unit half way between the fishing pond and the blasting site. Photo 36 shows the hill between the blasting site and the fishing pond. Approximately halfway between the site and the fishing pond is the top of the pond, see photo 39. The fishing pond is shown in photo 38 from the top of the hill shown in photo 36. Photo 37 show the mine site from the potential monitoring point.

## **6. Disposal of Excess Spoil, Fills, Benches**

Photo 27 and 28 show the current state of the temporary excess spoil pile from the development of NLPit 1. The size and general location can be seen on Drawing 1 of the Division's GPS tracks. Off road haul trucks continued to haul throughout the inspection from just above pond 5, see photos 31 through 35. The Division still requires the foundation inspection's per MRP and R645 regulations. This is part of NOV 21174.

## **12. Backfilling And Grading**

No backfill or grading was taking place at the North or South Coal Hollow permits

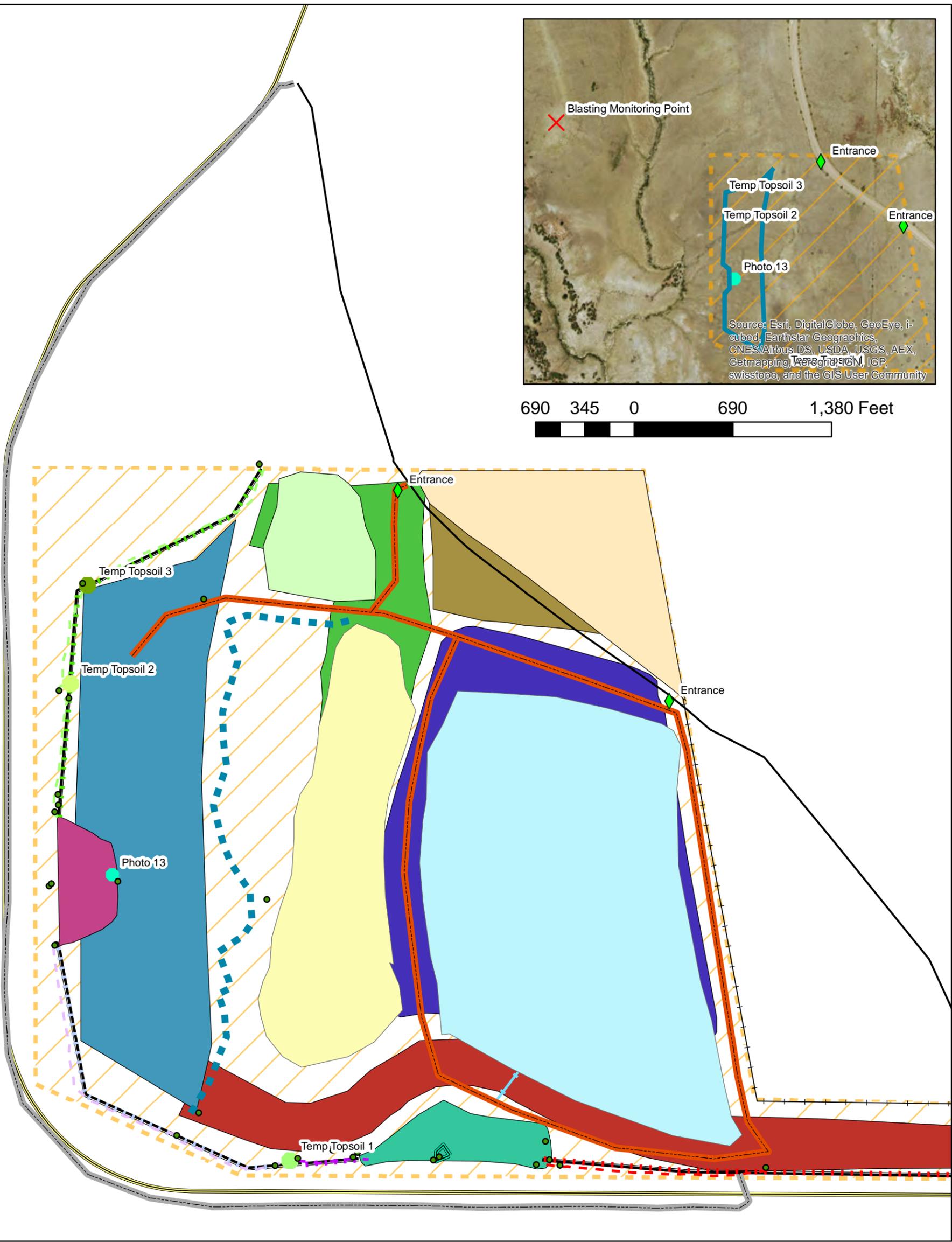
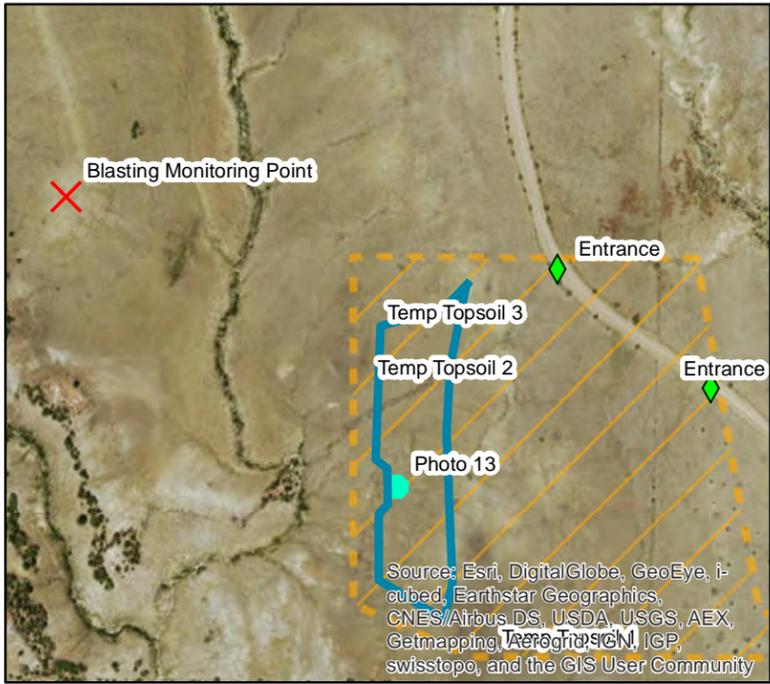
### **16.a Roads: Construction, Maintenance, Surfacing**

Drawing 1 attached shows the only approved haul road for the North private lease along the southern boundary. Drawing 1 shows the Division's field gps tracking location of the existing haul roads for spoil and coal at the time of inspection. These items are covered by NOV 21174 failure to follow approved plan. The abatement of the NOV is 4/15/16. The Permittee was alerted for the need to address the location of haul road within the abatement.

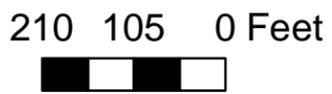
The subsoil pile, as shown on Drawing 1, is currently divided into two sections by the haul road out of NLPit 1. Photo 25 shows the northern most point of subsoil pile 1. The pile had not been placed by a dozer and the Permittee will establish the erosion control berm around the subsoil piles when the lifts are placed. The Division still requires the foundation inspection's per MRP and R645 regulations. This is part of NOV 21174. Photo 26 shows the haul road separating the two subsoil piles.

### **16.b Roads: Drainage Controls**

Photos 21, 23, 25, 26, 27, and 28 show how the existing haul roads do not currently have any drainage controls associated with the roads. Drawing 1 shows the Division's field gps tracking location of the existing haul roads for spoil and coal at the time of inspection. These items are covered by NOV 21174 failure to follow approved plan. The abatement of the NOV is 4/15/16. . The Permittee was alerted of the need to address the location of haul roads within the abatement.



GPS Field Features	Inspection Waypoints	GPS Field Footprints	MRP Approved Features	MRP Approved footprints
County Road K3900 By Pass Road	Blasting Monitoring Point	Spoil Pile	ByPass Rd	Excess Spoil
DD-05	Entrance	Subsoil Pile 1	C-1	Haul Road
DD-06	Photo 13	Subsoil Pile 2	C-2	Pit 1 Crest
DD-07	Temp Topsoil 1	Topsoil Pile	DD 05	Pond 5
DD-08	Temp Topsoil 2		DD 08	Pond 6
Existing County Road K3900	Temp Topsoil 3		DD 09	Subsoil
Haul Road			DD-07	Topsoil
Pit Extent			DD-06	Permit Area 1 Approved to Mine
Pond 6 Outfall Area			Berm and Silt Fence	

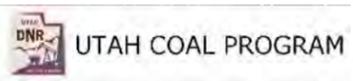


CLIENT  
ALTON COAL DEVELOPMENT

PROJECT  
COAL HOLLOW MINE  
C/0025/0005

TITLE  
NORTH PRIVATE LEASE  
INSPECTION 5497

YYYY-MM-DD	2016-4-13
PREPARED	CHERYL PARKER
DESIGN	CHERYL PARKER
REVIEW	PRISCILLA BURTON
APPROVED	DARON HADDOCK



PROJECT	MINE	Ref.	FIGURE
Coal Hollow	Alton Coal Development	C/025/005	Drawing 1

**NOTES**

- SHAPEFILES ARE BASED OFF EXHIBIT A OF THE BOND SUPPLEMENTAL INFORMATION.
- GARMIN ETRX 20 WAS UTILIZED DURING INSPECTION FOR

**REFERENCE**

TASK 4942, ITEM 99 SUPPLEMENTAL BOND INFORMATION

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 11x17

**ATTACHMENT A – Photos**



**PHOTO 1**

Eastern most point of DD-08, Missing section of Ditch to be installed, follow up required  
April 2016



**PHOTO 2**

Missing section of DD-08, used as access to County By-Pass construction. Standing on haul road looking directly south.  
April 2016



**PHOTO 3**

Walking DD-08 down gradient west towards Pond 6  
April 2016



**PHOTO 4**

DD-08 looking East, up gradient, Non-salvaged soil inhibiting flow  
April 2016

## ATTACHMENT A – Photos continued

**PHOTO 5**

Outfall of DD-08 into inlet of Pond 6, repairs to embankment previous day  
April 2016

**PHOTO 6**

Pond 6, looking North, Sediment Marker and primary spillway with oil skimmer  
April 2016

**PHOTO 7**

DD-07 outlet into Pond 6  
April 2016

**PHOTO 8**

DD-07 looking West, up gradient, towards recently recovered Topsoil, ditch to be fixed and soil to be removed, follow up required  
April 2016

## ATTACHMENT A – Photos continued

**PHOTO 9**

Salvaged Topsoil pile next to DD-07, Told Permittee to move away from ditch and protect asap, follow up required  
April 2016

**PHOTO 10**

DD-06 looking down gradient NW towards Pond 5. Staff standing at stress point in the ditch. Ditch to be fixed, follow up required  
April 2016

**PHOTO 11**

Walking DD-06 down gradient north towards Pond 5, to be fixed  
April 2016

**PHOTO 12**

DD-06 has potential draining off site, looking North. Ditch Outfall to be fixed asap and follow up required.  
April 2016

**ATTACHMENT A – Photos continued**



**PHOTO 13**

Standing at DD-06 inlet to Pond 5 looking at sediment marker installed, primary spillway with oil decanter, and DD-05 outfall/inlet into Pond 5.  
April 2016



**PHOTO 14**

Pond 5 inlet from DD-06, DD-06 linear needs to be keyed in  
April 2016



**PHOTO 15**

Pond 5 embankment needs to be repaired and raised 1 ft – 1.5 ft, follow up required  
April 2016



**PHOTO 16**

Looking west on Pond 5 embankment at Silt fence control measures at area to be repaired. Disturbance drainage captured by silt fence and salvaged soil piles for County By-Pass  
April 2016

**ATTACHMENT A – Photos continued**



**PHOTO 17**

Standing at DD-05 outlet into Pond 5 looking North , up gradient, of DD-05 to be repaired  
April 2016



**PHOTO 18**

DD-05 looking south, down gradient, along haul road, to be repaired  
April 2016



**PHOTO 19**

Salvaged Topsoil in DD-05 and a long haul road, looking north. To be moved asap to southern topsoil pile, follow up required  
April 2016



**PHOTO 20**

Looking south at Photo 19 Topsoil pile along haul road and DD-05. To be moved asap to southern topsoil pile, follow up required  
April 2016

## ATTACHMENT A – Photos continued

**PHOTO 21**

Walking DD-05 North, up gradient, towards second topsoil pile. Ditch to be repaired, follow up required  
April 2016

**PHOTO 22**

DD-05 looking south, down gradient, at Second topsoil pile shown in Photo 21. Topsoil to be moved and ditch to be repaired, follow up  
April 2016

**PHOTO 23**

Walking DD-05 North, up gradient, towards just past second topsoil pile. Ditch to be repaired, follow up required, haul road no drainage  
April 2016

**PHOTO 24**

DD-05 starting point, soil to be salvaged and ditch repaired, follow up required  
April 2016

## ATTACHMENT A – Photos continued

**PHOTO 25**

NW point of subsoil pile, began driving around subsoil. To be bermed when lift is placed by dozer, follow up required  
April 2016

**PHOTO 26**

Haul Road dividing subsoil piles, looking towards the route into the pit.  
April 2016

**PHOTO 27**

Driving South on haul road to spoil pile. Subsoil pile on right and spoil on left.  
April 2016

**PHOTO 28**

Spoil pile for North Private lease  
April 2016

## ATTACHMENT A – Photos continued

**PHOTO 29**

Culverts, C-1 to be installed under haul road, follow up required  
April 2016

**PHOTO 30**

Topsoil pile East of County Road 3900, bermed and fenced  
April 2016

**PHOTO 31**

North Lease Pit 1 coal removal and overburden removal, looking SW  
April 2016

**PHOTO 32**

Pit 1 overburden removal cutting slope to Pit Crest, Blue flagged  
stakes mark Pit Crest and bonded area for Pit 1. Facing East from  
Pond 5  
April 2016

**ATTACHMENT A – Photos continued**



**PHOTO 33**

Pit 1 overburden removal cutting slope to Pit Crest, Blue flagged stakes mark Pit Crest and bonded area for Pit 1. Facing East from DD-06  
April 2016



**PHOTO 34**

Overburden removal of pit development rolling into Pond 5.  
April 2016



**PHOTO 35**

North Lease Pit 1 overburden removal, looking NW at edge of pit crest  
April 2016



**PHOTO 36**

Hill midway between blasting site and fishing pond, potential seismography location  
April 2016

**ATTACHMENT A – Photos continued**



**PHOTO 37**

At potential seismograph location looking SE back at Mine Site  
April 2016



**PHOTO 38**

Fishing Pond NW of Mine site within ½ mile of blasting area.  
April 2016



**PHOTO 39**

Potential seismograph location looking SE back at Mine Site crest  
marked  
April 2016



**PHOTO 40**

Salvaged soil for County By-pass road alongside permit boundary.  
To be graded and seeded at time of inspection  
April 2016



**PHOTO 41**

Dozer grading out salvaged soil for County By-Pass road  
April 2016