

IMPOUNDMENT INSPECTION AND REPORT		
Permit Number	C/025/0005	9/17/2019
Mine Name	Coal Hollow Mine	
Company Name	Alton Coal Development, LLC	
Impoundment Identification	Impoundment Name	Pond 1
	Impoundment Number	Pond 1
	MSHA Mine ID Number	42-02519
IMPOUNDMENT INSPECTION		
Inspection Date	17-Sep-19	
Inspected By	Dan Guy / Clint Butterfield	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.	
1. Describe any appearance of any instability, structural weakness, or any other hazardous condition. N/A - None Noted.		
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.</p> <p>Sediment Storage Capacity:  60% Elevation: 6912 (1.26')  100% Elevation: 6913 (2.03')</p> <p>The pond contained approximately 3.5' of water at the time of the inspection. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout level. The pond bottom and sediment level is approximately at elevation 6911.5.</p>	
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6920 feet (The outlet structure for Pond 1 serves as both the Principle and Emergency Spillways)</p> <p>Total volume of pond at Spillway: 3.16 Acre-Feet (Elev. 6920.00')</p> <p>Required runoff storage: 2.57 Acre-Feet</p>	

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outcrops of embankments, etc.

The water level is approximately at elevation 6915.0. Embankments appear to be stable. There is a small sediment delta visible at the pond inlet. Inlet ditch is open and functioning properly. Outlet and oil skimmer are also okay. There was no discharge at the time of the inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only change noted in the structure during the 3rd quarter inspection of 2019 was that the pond contained less water. The pond appears to be stable and operating properly.

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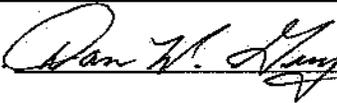
**Certification Statement**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

**By:**

Dan W. Guy, P.E.

Signature



Date:

9/17/19

IMPOUNDMENT INSPECTION AND REPORT		
Permit Number	C/025/0005	Report Date 09/17/2019
Mine Name	Coal Hollow Mine	
Company Name	Alton Coal Development, LLC	
Impoundment Identification	Impoundment Name	Pond 1B
	Impoundment Number	Pond 1B
	MSHA Mine ID Number	42-02519
IMPOUNDMENT INSPECTION		
Inspection Date	17-Sep-19	
Inspected By	Dan Guy / Clint Butterfield	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.</p>		
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.</p> <p>Sediment Storage Capacity:  60% Elevation: 6900.00 (6.00')  100% Elevation: 6902.08 (8.08')</p> <p>The pond was dry at the time of the inspection. The sediment marker is in place. The sediment elevation is approximately 6900.5. The pond is scheduled for cleaning.</p>	
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6906.45 feet (The outlet structure for Pond 1B serves as both the Principle and Emergency Spillways)  Total volume of pond at Spillway: 0.894 Acre-Feet (Elev. 6906.45)  Required runoff storage: 0.50 Acre-Feet</p>	

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on out-slopes of embankments, etc.

The pond is dry and the sediment level is slightly above the 60% cleaning point. There are 2 inlets to the pond - both have been previously rip-rapped and are operational; however, there is sediment build up below each of the inlets. These will be cleaned along with the rest of the pond as scheduled. The outlet is also open and functional. There was no inflow and no discharge at the time of the inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The main change noted since the last inspection is that the pond is dry. The sediment level is slightly above the cleaning point, and the pond is scheduled to be cleaned. The pond appears to be stable and operational. There was no discharge at the time of the inspection.

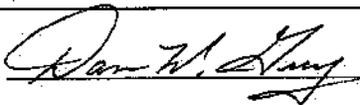
**Certification Statement**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

**By:**

Dan W. Guy, P.E.

Signature:



Date:

9/17/19

IMPOUNDMENT INSPECTION AND REPORT		
Permit Number	C/025/0005	9/17/2019
Mine Name	Coal Hollow Mine	
Company Name	Alton Coal Development, LLC	
Impoundment Identification	Impoundment Name	Pond 2
	Impoundment Number	Pond 2
	MSHA Mine ID Number	42-02519
IMPOUNDMENT INSPECTION		
Inspection Date	17-Sep-19	
Inspected By	Dan Guy / Clark Atwood	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.	
1. Describe any appearance of any instability, structural weakness, or any other hazardous condition. N/A - No appearance of any instability, structural weakness or other hazardous condition was noted.		
Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.  Sediment Storage Capacity: 60 % Elevation: 6892.1 (3.10') 100% Elevation: 6893.5 (4.50')  The pond was dry at the time of the inspection. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The approximate sediment elevation is 6890.0.	
	3. Principle and emergency spillway elevations. Principle and Emergency Spillway Elevation: 6900 feet (The outlet structure for Pond 2 serves as both the Principle and Emergency Spillways) Total volume of pond at Spillway: 2.675 Acre-Feet (Elev. 6901.09') Required runoff storage: 1.71 Acre-Feet	

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

The pond is dry. The single pond inlet is rip-rapped and operating properly. The single pipe outlet and oil skimmer are open and operational. There was no inflow and no discharge at the time of the inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only noted change to the pond noted since the last inspection is that the pond is now dry. The sediment level appears to be unchanged. The pond appears to be stable and operating properly.

**Certification Statement**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

**By:**

Dan W. Guy, P.E.

Signature: *Dan W. Guy* Date: 9/17/19

IMPOUNDMENT INSPECTION AND REPORT		
Permit Number	C/025/0005	9/17/2019
Mine Name	Coal Hollow Mine	
Company Name	Alton Coal Development, LLC	
Impoundment Identification	Impoundment Name	Pond 3
	Impoundment Number	Pond 3
	MSHA Mine ID Number	42-02519
IMPOUNDMENT INSPECTION		
Inspection Date	17-Sep-19	
Inspected By	Dan Guy / Clark Atwood	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.	
1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.		
None Noted.		
Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.	
	<p>Sediment Storage Capacity:  60 % Elevation: 6803.4 (7.4')  100% Elevation: 6804.9 (8.9')</p> <p>The pond has been cleaned and enlarged per the approved plans. The sediment marker is in place. The surveyed pond bottom and sediment elevation is 6796.0. There was only a small puddle of water in the pond at the time of the inspection.</p>	
	3. Principle and emergency spillway elevations.	
	Principle and Emergency Spillway Elevation: 6812 feet (The outlet structure for Pond 3 serves as both the Principle and Emergency Spillways) Total volume of pond at Spillway: 18.03 Acre-Feet (Elev. 6812.00') Required runoff storage: 14.89 Acre-Feet Decant Elevation: 6808.0	

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The pond has been cleaned and enlarged. There was only a small puddle of water in the bottom of the pond. The inlet, spillway and decant are all open and operational. Previous erosion noted above the east inlet has been repaired along with the cleaning process. The sediment marker is in place. There was no inflow and no discharge at the time of the inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

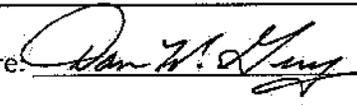
The changes noted since the last inspection include the completion of the cleaning and enlargement of the pond. The pond and the dam appear to be stable and are operating properly. The pond has been resurveyed and was certified on 9/16/19.

**Certification Statement**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By:

Dan W. Guy, P.E.

Signature: 

Date: 9/17/19

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	Report Date	09/17/2019
Mine Name	Coal Hollow Mine		
Company Name	Alton Coal Development, LLC		
Impoundment Identification	Impoundment Name	Pond 4	
	Impoundment Number	Pond 4	
	MSHA Mine ID Number	42-02519	
IMPOUNDMENT INSPECTION			
Inspection Date	17-Sep-19		
Inspected By	Dan Guy / Clark Atwood		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No instability of the embankment or hazardous condition was noted during the inspection.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.</p> <p>Sediment Storage Capacity:  60% Elevation: 6829.0 (7.0')  100% Elevation: 6830.0 (8.0')</p> <p>The pond contained approximately 1.0' of water in the upper section only. The sediment marker is in place, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6827.5.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6834 feet (The outlet structure for Pond 4 serves as both the Principle and Emergency Spillways)</p> <p>Total volume of pond at Spillway: 5.50 Acre-Feet (Elev. 6834.00')</p> <p>Required runoff storage: 3.80 Acre-Feet</p>		

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The water elevation is approximately 6828.5. The open-channel spillway is in place and rip-rapped. The inlet is open and operating properly. There was no inflow or discharge at the time of the inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

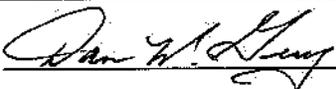
The only change noted since the last inspection is the decrease in the water level. The pond appears to be stable and operating properly. There was no inflow and no discharge at the time of the inspection.

**Certification Statement**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

**By:**

Dan W. Guy, P.E.

Signature: 

Date: 9/17/19

**IMPOUNDMENT INSPECTION AND REPORT**

Permit Number	C/025/0005	09/17/2019
Mine Name	Coal Hollow Mine	
Company Name	Alton Coal Development, LLC	
Impoundment Identification	Impoundment Name	Pond 5
	Impoundment Number	Pond 5
	MSHA Mine ID Number	42-02519

**IMPOUNDMENT INSPECTION**

Inspection Date	17-Sep-19
Inspected By	Dan Guy / Clark Atwood

Reason for Inspection <small>(Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)</small>	Quarterly Inspection.
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1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.  
 No instability of the embankment or hazardous condition was noted during the inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.

2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Sediment Storage Capacity:  
 60 % Elevation: 6843.0 (3.00')  
 100% Elevation: 6844.0 (4.00')

The pond had approximately 1.5' of water at the time of inspection. The sediment marker is in place, and field observation shows the sediment level to be below the cleanout elevation. The bottom of pond and sediment elevation is estimated to be 6841.7.

3. Principle and emergency spillway elevations.

Principle Spillway Elevation: 6848 feet  
 Emergency Spillway Elevation: 6849 feet  
 Total volume of pond at Spillway: 1.43 Acre-Feet (Elev. 6848.00')  
 Required runoff storage: 1.28 Acre-Feet

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The water level is approximately at elevation 6843.2. The inlets are open and appear to be operating properly. The inverted elbow at the outlet pipe has been repaired. The outlet and spillway are both open. There was no inflow or discharge at the time of the inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The only change noted to the pond since the last inspection is the decrease in the water level. The pond and embankment appear to be stable and operating properly.

**Certification Statement**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

**By:**

Dan W. Guy, P.E.

Signature: *Dan W. Guy*

Date: 9/17/19

IMPOUNDMENT INSPECTION AND REPORT		
Permit Number	C/025/0005	9/17/2019
Mine Name	Coal Hollow Mine	
Company Name	Alton Coal Development, LLC	
Impoundment Identification	Impoundment Name	Pond 6
	Impoundment Number	Pond 6
	MSHA Mine ID Number	42-02519
IMPOUNDMENT INSPECTION		
Inspection Date	17-Sep-19	
Inspected By	Dan Guy / Clark Atwood	
Reason for Inspection (Annual, Quarterly or Other-Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No instability of the embankment or hazardous condition was noted during the inspection.</p>		
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.</p> <p>Sediment Storage Capacity:  60 % Elevation: 6860.0 (5.00')  100% Elevation: 6861.0 (6.00')</p> <p>The pond was dry at the time of the inspection. The sediment marker is in place, and field observation shows the sediment level to be below the cleanout elevation. The bottom of pond and sediment elevation is estimated at 6855.7.</p>	
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle Spillway Elevation: 6866 feet  Emergency Spillway Elevation: 6867 feet  Total volume of pond at Spillway: 3.36 Acre-Feet (Elev. 6866.00')  Required runoff storage: 1.43 Acre-Feet</p>	

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The pond is dry. The inlets, outlet and spillway are also open and functional. There was no inflow or discharge at the time of the inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

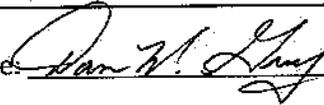
The only change noted since the last inspection is that the pond is now dry. The pond and embankment appear to be stable and operating properly.

**Certification Statement**

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**By:**

Dan W. Guy, P.E.

Signature: 

Date: 9/17/19

IMPOUNDMENT INSPECTION AND REPORT		
Permit Number	C/025/0005	9/17/2019
Mine Name	Coal Hollow Mine	
Company Name	Alton Coal Development, LLC	
Impoundment Identification	Impoundment Name	Pond 7
	Impoundment Number	Pond 7
	MSHA Mine ID Number	42-02519
IMPOUNDMENT INSPECTION		
Inspection Date	17-Sep-19	
Inspected By	Dan Guy / Clark Atwood	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspections, Critical Installation, or Completion of Construction)	Quarterly Inspection.	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No instability of the embankment or hazardous condition was noted during the inspection.</p>		
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.</p> <p>Sediment Storage Capacity:  60% Elevation: 6843.79 (4.79')  100% Elevation: 6844.91 (5.91')</p> <p>There was approximately 3' of water in the pond at the time of inspection. The sediment marker was not visible; however, field observation shows the sediment level to be below the cleanout elevation. The bottom of pond and sediment elevation were estimated to be 6840.5.</p>	
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle Spillway Elevation: 6848.00  Emergency Spillway Elevation: 6849.00  Total volume of pond at principle spillway: 12.97 Acre-Feet (Elev. 6848.00).  Required runoff storage: 7.11 Acre-Feet</p>	

4. **Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond decanting, embankment erosion/repairs, monitoring information, vegetation on outlopes of embankments, etc.

The water level is approximately at elevation 6843.5. Inlet structures appear to be open and functioning properly. The oil skimmer is disconnected from the principle spillway, and the scheduled repairs include replacement of the principle spillway and skimmer with cmp. The spillways are still operational. There was no inflow and no discharge at the time of the inspection.

5. **Field Evaluation.** Describe any changes in the geometry of the structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

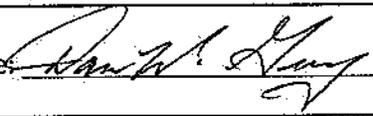
The changes noted since the last inspection are a decrease in the water level and a slight increase in the sediment level. The repair of the principle spillway and resetting of the sediment marker will be completed as soon as the water level is sufficiently reduced. The pond appears stable and operational.

**Certification Statement**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

**By:**

Dan W. Guy, P.E.

Signature: 

Date: 9/17/19

**State of Utah**  
**DEPARTMENT OF NATURAL RESOURCES**  
**Division of Oil, Gas & Mining**

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801  
 Telephone (801) 538-5340 facsimile (801) 359-3940 TTY (801) 538-7458  
 www.ogm.utah.gov



**Quarterly Inspection Form - Refuse Disposal Areas**  
 (please provide to DOGM promptly after inspection is complete)

Permit Number : C/025/0005 Inspection Date : 09/17/2019  
 Mine Name : Coal Hollow Project Quarter / Year : 3rd / 2019  
 Mine Operator (Permittee) : Alton Coal Development Inspector Name : Dan W. Guy  
 MSHA ID # : 42-02519 Inspector Signature : *[Signature]*  
 Facility Name / Location / Address : 2060 South Alton Road, Alton, UT 84710

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):  
Most of Main Pile has been removed. Remaining material will be removed during final borrow operation. Pile is regraded, subsoiled and seeded.

2. Lift Height / Thickness Avg 4.0' Maximum 4.0' # \_\_\_\_\_ Elevation of Active Benches : 6918  
 3. Vertical Angle of Outslope(s) / Location(s) where measured 3H:1V Avg. / No. Slope / So. Slope  
 4. Total storage capacity: 8,600,000 cy Remaining storage capacity 8,211,000 cy Volume placed during year : 0  
 5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material):  
Topsoil and subsoil removed and stored on site.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed):  
Dumped by truck / Pushed by dozer / Compaction primarily from large trucks / Tested with nuclear density unit.

7. Is there any evidence of fires or burning on the structure? (if YES, specify extent, location, and abatement/extinguishment of such fires):  
None

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow):  
None

9. Describe any appearances of instability, structural weakness, or other hazardous conditions:  
No instability noted, Most of pile has been removed.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

Are there cracks or scarps in crest ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Is there any detectable sloughing or bulging ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Do slope erosion problems exist ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Cracks or scarps in slope ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Surface movements? (valley bottom, hillsides)	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Erosion of Toe ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Water impounded by structure ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Are diversion ditches stable?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Is drainage positive ?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

Could failure of structure create an impoundment (provide description)? No

Are design standards established within the mining and reclamation plan for the disposal facility being met ?  
Yes.

Proctor Determination : 88% minimum - 98% maximum compaction as determined by nuclear density tests on 5/13/13.

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)

**State of Utah**  
**DEPARTMENT OF NATURAL RESOURCES**  
**Division of Oil, Gas & Mining**

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801  
 Telephone (801) 538-5340 facsimile (801) 359-3940 TTY (801) 538-7458  
[www.ogm.utah.gov](http://www.ogm.utah.gov)



**Quarterly Inspection Form - Refuse Disposal Areas**

(please provide to DOGM promptly after inspection is complete)

Permit Number :	<u>C/025/0005</u>	Inspection Date :	<u>09/17/2019</u>
Mine Name :	<u>Northwest Temporary Spoil Pile</u>	Quarter / Year :	<u>3rd / 2019</u>
Mine Operator (Permittee) :	<u>Coal Hollow Project - Alton Coal</u>	Inspector Name :	<u>Dan W. Guy</u>
MSHA ID # :	<u>42-02519</u>	Inspector Signature :	
Facility Name / Location / Address :	<u>2060 South Alton Road, Alton, UT 84710</u>		

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):  
No changes noted since last inspection.

2. Lift Height / Thickness Avg 4.0' Maximum 4.0' # \_\_\_\_\_ Elevation of Active Benches : 6920  
 3. Vertical Angle of Outslope(s) / Location(s) where measured N/A Not Graded / /  
 4. Total storage capacity: 215,000 cy Remaining storage capacity 152,500 cy Volume placed during year: 50,000 cy  
 5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :  
Vegetation removed. Topsoil and subsoil removed and stored on site.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :  
Dumped by truck. Will be graded and pushed by dozer. Compaction will be primarily from large trucks.

7. Is there any evidence of fires or burning on the structure ? (if YES, specify extent, location, and abatement/extinguishment of such fires) :  
None

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :  
None

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :  
No instability noted.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

Are there cracks or scars in crest ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Is there any detectable sloughing or bulging ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Do slope erosion problems exist ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Cracks or scars in slope ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Surface movements? (valley bottom, hillsides)	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Erosion of Toe ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Water impounded by structure ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Are diversion ditches stable?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Is drainage positive ?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

Could failure of structure create an impoundment (provide description) ? No

Are design standards established within the mining and reclamation plan for the disposal facility being met ?  
Yes. Pile grading not yet completed due to wet ground conditions.

Proctor Determination : \_\_\_\_\_

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)