

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

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Quarterly Inspection Form - Refuse Disposal Areas

(please provide to DOGM promptly after inspection is complete)

Permit Number : C/025/0005 Inspection Date : 03/29/2018
 Mine Name : Coal Hollow Project Quarter / Year : 1st / 2018
 Mine Operator (Permittee) : Alton Coal Development Inspector Name : Dan W. Guy
 MSHA ID # : 42-02519 Inspector Signature : *Dan W. Guy*
 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)

IMPOUNDMENT INSPECTION AND REPORT		
Permit Number	C/025/0005	3/29/2018
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	29-Mar-08	
Inspected By	Kirk Nicholes / Dan Guy	
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.	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: 6912 (1.26') 100% Elevation: 6913 (2.03') The pond is full and discharging. The sediment marker is in place, and field observation shows the sediment level to be at, or slightly above the cleanout elevation. Some sediment buildup is evident at the inlet. The average sediment level is approximately at elevation 6912.0.	
	3. Principle and emergency spillway elevations. Principle and Emergency Spillway Elevation: 6920 feet (The outlet structure for Pond 1 serves as both the Principle and Emergency Spillways) Total volume of pond at Spillway: 3.16 Acre-Feet (Elev. 6920.00') Required runoff storage: 2.57 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 outlooes of embankments, etc.

The water level is at elevation 6920 and discharging. Embankments appear to be stable. The pond should be cleaned as soon as conditions allow.

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.

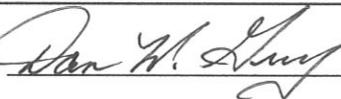
The changes noted in the structure during the 1st quarter of 2018 include an increase in the water level and the sediment is at the cleaning level.

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:

(Full Name and Title)

Signature:  Date: 3/29/18

IMPOUNDMENT INSPECTION AND REPORT		
Permit Number	C/025/0005	Report Date 03/29/2018
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	29-Mar-18	
Inspected By	Kirk Nicholes / Dan Guy	
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 contained approximately 9.0' of water at the time of the inspection. The sediment marker is in place. The pond has been cleaned and the bottom (sediment) elevation is approximately 6894.0.</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 outslopes of embankments, etc.

The water level is approximately at elevation 6903. There are 2 inlets to the pond - both have been previously ripped and are operating properly. The outlet is also open and functional. The pond has been recently cleaned.

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 pond has been cleaned and has been inspected and recertified on this form.

Certification Statement



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By:

(Full Name and Title)

Signature: Dan W. Guy Date: 3/29/18

IMPOUNDMENT INSPECTION AND REPORT		
Permit Number	C/025/0005	3/29/2018
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	29-Mar-18	
Inspected By	Kirk Nicholes / Dan Guy	
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: 6892.1 (3.10') 100% Elevation: 6893.5 (4.50')</p> <p>The pond contained approximately 1.5' 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 elevation. The approximate sediment elevation is 6889.0.</p>	
	<p>3. Principle and emergency spillway elevations.</p> <p>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</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 water level is approximately at elevation 6890.5. The single pond inlet is rip-rapped.

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 was that the pond now contained a small amount of water.

Certification Statement

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By:

(Full Name and Title)

Signature: *Don M. Long* Date: 3/29/18

IMPOUNDMENT INSPECTION AND REPORT		
Permit Number	C/025/0005	3/29/2018
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	29-Mar-18	
Inspected By	Kirk Nicholes / Dan Guy	
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>None 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: 6805.0 (4.0') 100% Elevation: 6807.0 (6.0')</p> <p>The pond contained approximately 5.0' of water at the time of the inspection. The sediment marker is in place, and field observation shows the average sediment level to be below the cleanout elevation. The approximate average sediment elevation is 6803.</p>	
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle and Emergency Spillway Elevation: 6811 feet (The outlet structure for Pond 3 serves as both the Principle and Emergency Spillways)</p> <p>Total volume of pond at Spillway: 12.60 Acre-Feet (Elev. 6811.00')</p> <p>Required runoff storage: 6.30 Acre-Feet</p> <p>Decant Elevation: 6808.0</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 average water level is approximately at elevation 6808.0.

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 since the last inspection was an increase in the overall water level. The pond and the dam appear to be stable and are operating properly.

Certification Statement

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By:

(Full Name and Title)

Signature:  Date: 3/29/18

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	Report Date	03/29/2018
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	29-Mar-18		
Inspected By	Kirk Nicholes / Dan Guy		
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 1.5' of water in the upper cell and only a puddle of water in the lower cell. 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 6827.2.</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 average water elevation is approximately 6828.5. The open-channel spillway is in place and ripped. No discharge.

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 a slight increase in the water level in the upper cell and a small amount of water in the lower cell.

Certification Statement

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By: Dan W. Guy, P.E.

(Full Name and Title)

Signature: *Dan W. Guy* Date: 3/29/18

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	03/29/2018	
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	29-Mar-18		
Inspected By	Kirk Nicholes / Dan Guy		
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: 6843.0 (3.00') 100% Elevation: 6844.0 (4.00')</p> <p>The pond had approximately 2.5' of water at the time of inspection . The sediment marker has been reset, and field observation shows the sediment level to be well below the cleanout elevation. The bottom of pond and approximate sediment elevation is 6841.0.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>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</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. The sediment marker has been reset.

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.

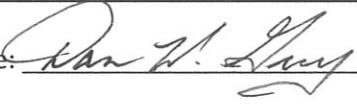
There were no noted changes to the pond since the last inspection.

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:

(Full Name and Title)

Signature:  Date: 3/29/18

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	Report Date	03/29/2018
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	29-Mar-18		
Inspected By	Kirk Nicholes / Dan Guy		
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 inspection . 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 6855.0.</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 was dry at the time of 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.

There have been no changes since the last inspection.

Certification Statement

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By:

(Full Name and Title)

Signature: *Don W. Long* Date: 3/29/18

IMPOUNDMENT INSPECTION AND REPORT			
Permit Number	C/025/0005	Report Date 03/29/2018	
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	29-Mar-18		
Inspected By	Kirk Nicholes / Dan Guy		
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 an average of approximately 1' of water in the pond at the time of inspection. 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 6839.0.</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 pond contained approximately 1.0' of water at the time of inspection. Average water elevation is approximately 6839.5.

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 a slight increase in the water level.

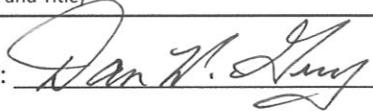
Certification Statement

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By:

(Full Name and Title)

Signature:



Date:

3/29/18