2018 Annual Dam and Dike Inspection Report

Conesville Plant
Ash Pond Complex
Document Number: GERS-18-037

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DATE 9/21/2018

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DATE 9/24/2018

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DATE 9/24/2018

I certify to the best of my knowledge, information and belief the information contained in this report meets the requirements of 40 CFR § 257.83(b).
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Attachments
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   Attachment B – Site Maps
   Attachment C – Instrumentation Data
1.0 Introduction
This report was prepared by AEP- Geotechnical Engineering Services (GES) section, in part, to fulfill requirements of 40 CFR 257.83 and the Ohio Department of Natural Resource (ODNR), Division of Water Dam Inspection Section and to provide AEP Generation Resources and the Conesville Power Station with an evaluation of the facility.

Ms. Beth Mullen, Plant Environmental Coordinator for the Conesville Plant provided onsite coordination for inspection activities. The inspection was performed on August 28, 2018 by Brian Palmer of AEP Geotechnical Engineering. Weather conditions were overcast with temperatures in low 70’s F to upper 80’s F and 0.4-in of precipitation occurred in the preceding seven days prior to the inspection.

2.0 Description of Impoundment

2.1 Definitions of Visual Observations and deficiencies
This summary of the visual observations uses terms to describe the general appearance or condition of an observed item, activity or structure. The meaning of these terms is as follows:

Good: A condition or activity that is generally better or slightly better than what is minimally expected or anticipated from a design or maintenance point of view.

Fair or Poor: A condition or activity that generally meets what is minimally Satisfactory: expected or anticipated from a design or maintenance point of view.

Minor: A reference to an observed item (e.g., erosion, seepage, vegetation, etc.) where the current maintenance condition is below what is normal or desired, but which is not currently causing concern from a structure safety or stability point of view.

Significant: A reference to an observed item (e.g. erosion, seepage, vegetation, etc.) where the current maintenance program has neglected to improve the condition. Usually, conditions that have been previously identified in the previous inspections, but have not been corrected.

Excessive: A reference to an observed item (e.g., erosion, seepage, vegetation, etc.) where the current maintenance condition is above or worse than what is normal or desired, and which may have affected the ability of the observer to properly evaluate the structure or particular area being observed or which may be a concern from a structure safety or stability point of view.

This document also uses the definition of a “deficiency” as referenced in the CCR rule section §257.83(b)(5) Inspection Requirements for CCR Surface Impoundments. This definition has been assembled using the CCR rule Preamble as well as guidance from MSHA, “Qualifications for Impoundment Inspection” CI-31, 2004. These guidance documents further elaborate on the definition of deficiency. Items not defined by deficiency are considered maintenance or items to be monitored.

A “deficiency” is some evidence that a dam has developed a problem that could impact the structural integrity of the dam. There are four general categories of deficiencies. These four categories are described below:
1. Uncontrolled Seepage
   a. Uncontrolled seepage is seepage that is not behaving as the design engineer has intended. An example of uncontrolled seepage is seepage that comes through or around the embankment and is not picked up and safely carried off by a drain. Seepage that is collected by a drain can still be uncontrolled if it is not safely collected and transported, such as seepage that is not clear. Seepage that is unable to be measured and/or observe it is considered uncontrolled seepage. [Wet or soft areas are not considered as uncontrolled seepage, but can lead to this type of deficiency. These areas should monitored my frequently.]

2. Displacement of the Embankment
   a. Displacement of the embankment is large scale movement of part of the dam. Common signs of displacement are cracks, scraps, bulges, depressions, sinkholes and slides.

3. Blockage of Control Features
   a. Blockage of Control Features is the restriction of flow at spillways, decant or pipe spillways, or drains.

4. Erosion
   a. Erosion is the gradual movement of surface material by water, wind or ice. Erosion is considered a deficiency when it is more than a minor routine maintenance item.

2.2 Fly Ash Pond Complex
The fly ash pond complex is comprised of diked embankments on the north, southeast, and south sides. County Road 273 runs along the toe of the north dike, a Plant haul road run along the top of the north dike, and a coal haul road runs along the crest or exterior of the Southeast dike. The northwest side of the Ash Pond Complex is located adjacent to a closed landfill area. There are three main ponds within the Ash Pond Complex as listed below.

List of Main Ponds within the Ash Pond Complex
Fly Ash Pond
Bottom Ash Pond
Clearwater Pond

The Fly Ash Pond has internal splitter dikes that divide it into areas referred to as Ponds 1, 2, 3, and 4. The Bottom Ash Pond has an internal splitter dike creating the Bottom Ash Pond and Pond 5. Water enters the Ash Pond complex through either the Bottom Ash Pond or Pond 1. From the Bottom Ash Pond or Pond 1 water flows through the Ash Pond Complex in order from Pond 2, Pond 3, Pond 4, and Pond 5 before reaching the Clearwater Pond where it is discharged to the Holding Pond.

The inspection included the dike for the Metals Waste Cleaning tank as it is adjacent to the South dike of the Ash Pond complex

3.0 Review of Available Information (257.83(b)(1)(i))
A review of available information regarding the status and condition of the Ash Pond Complex, which include files available in the operating record, such as design and construction information, previous periodic structural stability assessments, previous 7 day inspection reports, and previous annual inspections has been conducted. Based on the review of the data there were no signs of actual or potential structural weakness or adverse conditions.
4.0 Inspection (257.83(b) (1)(ii))

4.1 Metals Cleaning Waste Tank Dike (Non-CCR)
A visual inspection of the dike for Metals Cleaning Waste Tank was conducted to identify any signs of distress or malfunction of the secondary containment system. Overall the facility is in good condition. The secondary containment is functioning as intended with no signs of potential structural weakness or conditions which would be disruptive to the safe operation of the containment system. Inspection photos are included in Attachment A. Additional pictures taken during the inspection can be made available upon request.

4.2 Ash Pond Complex

4.2.1 Changes in geometry since last inspection (257.83(b)(2)(i))
No modifications have been made to the exterior geometry of the Ash Pond Complex since the 2017 annual inspection.

4.2.2 Instrumentation (257.83(b)(2)(ii))
The location and type of instrumentation is shown on Figure 2 in Attachment B. The maximum recorded readings of each instrument since the previous annual inspection is shown in Table 1 below.

Table 1 – INSTRUMENTATION DATA

<table>
<thead>
<tr>
<th>Ash Pond Complex</th>
<th>Instrument</th>
<th>Type</th>
<th>Maximum Reading since last annual inspection</th>
<th>Date of reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>B7</td>
<td>Piezometer</td>
<td>729.53</td>
<td>2/27/2018</td>
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</tr>
<tr>
<td>P-11</td>
<td>Piezometer</td>
<td>733.92</td>
<td>2/27/2018</td>
<td></td>
</tr>
<tr>
<td>P-12</td>
<td>Piezometer</td>
<td>747.82</td>
<td>2/27/2018</td>
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<tr>
<td>P-13</td>
<td>Piezometer</td>
<td>749.9</td>
<td>4/24/2018</td>
<td></td>
</tr>
<tr>
<td>B-0901</td>
<td>Piezometer</td>
<td>732.78</td>
<td>2/27/2018</td>
<td></td>
</tr>
<tr>
<td>B-0902</td>
<td>Piezometer</td>
<td>762.46</td>
<td>2/27/2018</td>
<td></td>
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<tr>
<td>B-0902R</td>
<td>Piezometer</td>
<td>739.07</td>
<td>09/10/2018</td>
<td></td>
</tr>
<tr>
<td>B-0903</td>
<td>Piezometer</td>
<td>749.02</td>
<td>2/27/2018</td>
<td></td>
</tr>
<tr>
<td>B-0904</td>
<td>Piezometer</td>
<td>743.29</td>
<td>2/27/2018</td>
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</tr>
</tbody>
</table>

NOTE: A review of the piezometer construction and locations identified issues with the construction of B-0902 and B-0903 resulting in B-0902R replacing B-0902 in May 2018 and B-0903 was abandoned as it is replicated by P-12.

Piezometers readings were generally consistent since the last inspection. Piezometer well hydrographs are included in Attachment C. B-0902R is discretely screened in the embankment and better characterizes water elevations in the dike.

4.2.3 Impoundment Characteristics (257.83(b)(2)(iii, iv, v))
Table 2 is a summary of the minimum, maximum, and present depth and elevation of the impounded water & CCR based on the bathymetric survey conducted Nov. 9, 2017 and water elevation at time of inspection; the storage capacity of the impounding structure; and the approximate volume of the impounded CCR at the time of the bathymetric survey.
Table 2 – IMPOUNDMENT CHARACTERISTIC DATA

<table>
<thead>
<tr>
<th>Impoundment Characteristics</th>
<th>Ash Pond Complex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximate Minimum depth of impounded water</td>
<td>&lt;1-ft</td>
</tr>
<tr>
<td>Approximate Maximum depth of impounded water</td>
<td>~21-ft</td>
</tr>
<tr>
<td>Approximate Present depth of impounded water</td>
<td>~11 ft (avg)</td>
</tr>
<tr>
<td>Approximate Minimum depth of CCR</td>
<td>~5.5-ft</td>
</tr>
<tr>
<td>Approximate Maximum depth of CCR</td>
<td>~32-ft</td>
</tr>
<tr>
<td>Approximate Present depth of CCR</td>
<td>~16-ft (avg)</td>
</tr>
<tr>
<td>Storage Capacity of impounding structure at the time of the inspection</td>
<td>2,500 ac-ft.</td>
</tr>
<tr>
<td>Approximate volume of impounded water</td>
<td>~800 ac-ft.</td>
</tr>
<tr>
<td>Approximate volume of CCR</td>
<td>~1,200 ac-ft.</td>
</tr>
</tbody>
</table>

Notes:
1. Water and CCR elevations vary across the Ash Pond Complex
2. Values based on observations, bottom elevation of 730, max. operating pool of 762

4.2.4 Visual inspection (257.83(b)(2)(i))
A visual inspection of the Ash Pond Complex was conducted to identify any signs of distress or malfunction of the impoundment and appurtenant structures. The inspection also included hydraulic structures underlying the base of the dike. Specific items inspected included all structural elements of the dam such as inboard and outboard slopes, crest, and toe; as well as appurtenances such as the outlet structure at the Bottom Ash Pond and Clearwater Pond, and pipe discharge structure.

Overall the facility is in good condition. The impoundment is functioning as intended with no signs of potential structural weakness or conditions which are disrupting to the safe operation of the impoundment. Inspection photos are included in Attachment A. Additional pictures taken during the inspection can be made available upon request. Figures of the Ash Pond Complex are included in Attachment B.

4.2.5 Changes that effect stability or operation (257.83(b)(2)(vii))
Based on interviews with plant personnel and field observations there were no changes to the Ash Pond Complex since the last annual inspection that would affect the stability or operation of the impounding structure.

5.0 Summary of Findings

5.1 General Observations
The following general observations were identified during the visual inspection:

Metals Cleaning Waste Tank Dike
1) The outboard slopes, crest and inboard slopes of the embankment were generally in good condition. The embankments did not show any signs of structural weakness or instability. The vegetation along the embankments was well established.

Ash Pond Complex
2) The outboard slopes, crest and inboard slopes of the embankments were generally in good condition. The embankments did not show any signs of structural weakness or instability. The
vegetation along the embankments was well established. The crest did not contain any ruts or other signs of instability.

3) The Clearwater Pond hydraulic structure is in good condition. There were no signs of deterioration of the concrete or steel structures. The maximum pool elevation (762 ft. msl) is also clearly marked on the structure. Stop logs were available for use. Flow within the discharge pipe appeared unobstructed.

5.2 Maintenance Items
The following maintenance items were identified during the visual inspection, see inspection map for locations:

**Metals Cleaning Waste Tank Dike**
1) No specific items identified related to the Metals Cleaning Waste Tank Dike.

**Ash Pond Complex**
2) Continue work to clear the vegetation on the exterior embankment along the Coal Haul road to the toe of the embankment and groin ditch plus a minimum of 25 ft. along the opposite slope and ascertain the origin of the seepage observed within this area.

3) Work on the removal of vegetation at the toe of the north dike along County Road 273.

4) Continue monitoring and taking corrective actions related to groundhogs and other burrowing animals.

5.3 Items to Monitor
The following items were identified during the visual inspection as items to be monitored, see inspection map for locations:

**Metals Cleaning Waste Tank Dike**
1) No specific items identified related to the Metals Cleaning Waste Tank Dike.

**Ash Pond Complex**
2) The abandoned culverts under original coal haul road need to be inspected quarterly for seepage.

3) Continue to monitor for areas of erosion and repair as necessary.

5.4 Deficiencies (257.83(b)(2)(vi))
There were no signs of structural weakness or disruptive conditions that were observed at the time of the inspection that would require additional investigation or remedial action. There were no deficiencies noted during this inspection or any of the periodic 7-day or 30-day inspections. A deficiency is defined as either 1) uncontrolled seepage, 2) displacement of the embankment, 3) blockage of control features, or 4) erosion, more than minor maintenance. If any of these conditions occur before the next annual inspection contact AEP Geotechnical Engineering immediately.
ATTACHMENT A

Photos
---Page Intentionally Left Blank---
Plant Name: Conesville
Unit: Ash Pond
Inspector: B. Palmer
Date: August 28, 2018

Photo #: 1
Description: Crest
Notes: Crest of SE dike haul road
Location: Looking SW
Coordinates: N40 11.366 W81 51.965

Photo #: 2
Description: Groin
Notes: Exterior slope/crest of SE dike
Location: NE corner looking SW
Coordinates: N40 11.351 W81 51.979
Plant Name: Conesville  
Inspector: B. Palmer  

Unit: Ash Pond  
Date: August 28, 2018  

Photo #: 3  
Description: Groin  
Notes: Left groin exterior slope of SE dike  
Location: N40 11.362 W81 51.964  

Photo #: 4  
Description: Other  
Notes: Groundhog hole on slope, identified as part of plant inspection and flagged for repair. Groundhog removed  
Location: N40 11.332 W81 51.987
Plant Name: Conesville
Unit: Ash Pond
Inspector: B. Palmer
Date: August 28, 2018

Photo #: 5
Description: Toe
Notes: Toe of SE dike cleared at least 25ft from exterior toe
Location: Looking SW
N40 11.310 W81 52.014

Photo #: 6
Description: Toe
Notes: Toe of SE dike needing additional work to clear exterior toe area
Location: Looking NE
N40 11.309 W81 52.016
<table>
<thead>
<tr>
<th>Plant Name:</th>
<th>Conesville</th>
<th>Inspector:</th>
<th>B. Palmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit:</td>
<td>Ash Pond</td>
<td>Date:</td>
<td>August 28, 2018</td>
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</table>

<table>
<thead>
<tr>
<th>Photo #:</th>
<th>7</th>
<th>Description:</th>
<th>Slope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes:</td>
<td>General condition of exterior slope of SE dike</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location:</td>
<td>Looking NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N40 11.200 W81 52.172</td>
<td></td>
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<table>
<thead>
<tr>
<th>Photo #:</th>
<th>8</th>
<th>Description:</th>
<th>Slope</th>
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<tbody>
<tr>
<td>Notes:</td>
<td>General condition of exterior slope of SE dike</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location:</td>
<td>Looking SW</td>
<td></td>
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<tr>
<td>N40 11.200 W81 52.172</td>
<td></td>
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</table>
### Conesville Dam Inspection

**Plant Name:** Conesville  
**Unit:** Ash Pond  
**Inspection:** B. Palmer  
**Date:** August 28, 2018

<table>
<thead>
<tr>
<th>Photo #</th>
<th>Description</th>
<th>Notes</th>
<th>Location</th>
<th>Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Other</td>
<td>Old CMP culverts along exterior toe of SE dike</td>
<td></td>
<td>N40 11.143 W81 52.232</td>
</tr>
<tr>
<td>10</td>
<td>Other</td>
<td>Old concrete culvert near old CMP pipes</td>
<td></td>
<td>N40 11.146 W81 52.227</td>
</tr>
<tr>
<td>Photo #</td>
<td>Description</td>
<td>Notes</td>
<td>Location</td>
<td></td>
</tr>
<tr>
<td>---------</td>
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<td>--------------------------------------------</td>
<td>-------------------</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Slope</td>
<td>General condition of slope above access</td>
<td>N40 11.089 W81 52.302</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Culvert</td>
<td>Outlet of discharge structure</td>
<td>N40 11.100 W81 52.299</td>
<td></td>
</tr>
</tbody>
</table>
Plant Name: Conesville
Inspector: B. Palmer
Unit: Ash Pond
Date: August 28, 2018

Photo #: 13
Description: Slope
Notes: General condition of north dike exterior slope
Location: East end looking west
N40 11.542 W81 51.863

Photo #: 14
Description: Groin
Notes: Right exterior groin and abutment north dike
Location: N40 11.541 W81 51.862
Plant Name: Conesville
Unit: Ash Pond

Inspector: B. Palmer
Date: August 28, 2018

Photo #: 15
Description: Toe
Notes: General condition of exterior toe of north dike along county road
Location: Looking west
Coordinates: N40 11.560 W81 52.020

Photo #: 16
Description: Crest
Notes: General condition of crest outside of fence
Location: Looking east
Coordinates: N40 11.543 W81 52.293
Plant Name: Conesville
Inspector: B. Palmer
Date: August 28, 2018

Photo #: 17
Description: Crest
Notes: Crest SE dike above coal haul road
Location: SE dike exterior slope above coal haul road
N40 11.108 W81 52.350

Photo #: 18
Description: Slope
Notes: SE dike exterior slope above coal haul road
Location: SW corner looking NW
N40 11.106 W81 52.317
<table>
<thead>
<tr>
<th>Photo #</th>
<th>Description</th>
<th>Notes</th>
<th>Location</th>
<th>Notes</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Toe</td>
<td>General condition of SW dike exterior toe and slope</td>
<td>Looking west</td>
<td>N40 11.103 W81 52.392</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Slope</td>
<td>General condition of SW dike exterior slope</td>
<td>Looking east</td>
<td>N40 11.142 W81 52.443</td>
<td></td>
</tr>
<tr>
<td>Photo #:</td>
<td>21</td>
<td>Description:</td>
<td>Other</td>
<td></td>
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<td>---------</td>
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<td>--------------</td>
<td>-------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Notes:</td>
<td>Metal Cleaning Waste Tank (MCWT) east dike general condition</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location:</td>
<td>N40 11.140 W81 52.448</td>
<td></td>
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<table>
<thead>
<tr>
<th>Photo #:</th>
<th>22</th>
<th>Description:</th>
<th>—</th>
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</thead>
<tbody>
<tr>
<td>Notes:</td>
<td>South MCWT dike general condition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location:</td>
<td>N40 11.128 W81 52.472</td>
<td></td>
<td></td>
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</tbody>
</table>
Plant Name: Conesville

Unit: Ash Pond

Inspector: B. Palmer

Date: August 28, 2018

Photo #: 23

Description: Other

Notes: West MCWT dike general condition

Location: N40 11.158 W81 52.474

Photo #: 24

Description: —

Notes: North side of MCWT about SW dike of Ash Pond

Location: N40 11.159 W81 52.470
Plant Name: Conesville
Inspector: B. Palmer
Unit: Ash Pond
Date: August 28, 2018

Photo #: 25
Description: Other
Notes: General condition of SW dike exterior toe and slope
Location: Looking east
N40 11.218 W81 52.547

Photo #: 26
Description: Crest
Notes: General condition of SW dike crest
Location: Looking se
N40 11.222 W81 52.544
<table>
<thead>
<tr>
<th>Photo #</th>
<th>Description</th>
<th>Notes</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>Slope</td>
<td>Interior slope of SW dike in bottom ash pond</td>
<td>Looking SE</td>
</tr>
<tr>
<td>28</td>
<td>Other</td>
<td>Bottom ash discharge pipes crossing top of berm at SW corner. Wood vegetation is starting to develop.</td>
<td></td>
</tr>
</tbody>
</table>
Plant Name: Conesville
Unit: Ash Pond
Inspector: B. Palmer
Date: August 28, 2018

Photo #: 29
Description: Other
Notes: General condition of bottom ash outlet pipes
Location: Bottom ash pond
N40 11.229 W81 52.513

Photo #: 30
Description: General
Notes: Bottom ash canal
Location: Bottom ash pond
N40 11.226 W81 52.517
<table>
<thead>
<tr>
<th>Photo #</th>
<th>Description</th>
<th>Notes</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>Slope</td>
<td>Toe and exterior slope on west side dike at bottom ash pond</td>
<td>Looking north</td>
<td>N40 11.236</td>
<td>W81 52.542</td>
</tr>
<tr>
<td>32</td>
<td>Crest</td>
<td>Crest and interior slope of west side dike at bottom ash pond</td>
<td>Looking south</td>
<td>N40 11.315</td>
<td>W81 52.446</td>
</tr>
<tr>
<td>Photo #</td>
<td>Description</td>
<td>Notes</td>
<td>Location</td>
<td></td>
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<td>---------</td>
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<td>-------</td>
<td>----------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Crest</td>
<td>North dike haul road crest</td>
<td>West end looking east</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Slope</td>
<td>General condition of North dike interior slope</td>
<td>Looking west</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Plant Name: Conesville

Unit: Ash Pond

Inspector: B. Palmer

Date: August 28, 2018

Photo #: 35

Description: General

Notes: Overview of Ash Pond Complex

Location: Looking SW from NE corner

N40 11.413 W81 51.909

Photo #: 36

Description: Slope

Notes: SE dike interior slope

Location: 

N40 11.415 W81 51.909
Plant Name: Conesville

Unit: Ash Pond

Inspector: B. Palmer

Date: August 28, 2018

Photo #: 37

Description: Slope

Notes: SE dike above coal haul road

Location: Looking SW from clearwater pond

N40 11.177 W81 52.245

Photo #: 38

Description: Other

Notes: Outlet riser in clearwater pond

Location: 

N40 11.169 W81 52.253
Plant Name: Conesville
Unit: Ash Pond

Inspector: B. Palmer
Date: August 28, 2018

Photo #: 39
Description: Other
Notes: General condition of walkway to outlet riser
Location: Clearwater Pond
N40 11.155 W81 52.331

Photo #: 40
Description: Other
Notes: Discharge opening at outlet riser
Location: Clearwater Pond
N40 11.148 W81 52.321
ATTACHMENT B

Inspection / Instrumentation Location Maps
ATTACHMENT C

Instrumentation Data
FIGURE 3 - INSTRUMENTATION DATA.