AMERICAN ELECTRIC POWER

American Electric Power
1 Riverside Plaza
Columbus, OH 43215-2373
AEP.com

Mr. Harry Kallipolitis
Section Manager, 401 WQC and Isolated Wetlands Permitting Unit
Lazarus Government Center
50 W. Town St., Suite 700
Columbus, Ohio 43215

May 8, 2015

Re: AEP Generation Resources Inc. – Conesville Plant
Conesville Five Points Phase III – AML Reclamation Project
General Isolated Wetland Permit Application (Level One and Two) – LRH 2014-318

Dear Mr. Kallipolitis:

Please find enclosed a completed General Isolated Wetland Permit Application (Level One and Two) to perform reclamation of pre-Surface Mining Control and Reclamation Act of 1977 abandoned mine lands at AEP Generation Resources Inc.'s Conesville Plant located in Coshocton County, Ohio. The goal of the reclamation is to eliminate hazardous highwalls, abate AMD, restore the subject landscape to its approximate original contours and reforest the reclaimed areas with vegetation native to the region. The project proposes permanent impacts to 0.7 acre isolated wetlands and 0.89 acre isolated open water. In addition, the project proposes permanent impacts to 0.37 acre of jurisdictional wetland and 3.89 acres of jurisdictional open water. A Pre-Construction Notification for coverage under NWP #27 is being submitted concurrently to the U.S. Army Corps of Engineers.

Also enclosed is a check in the amount of $550.00 to cover the application fee.

If you have any questions or need additional information, please contact me at 614-716-2240 or at jmmagalski@aep.com.

Sincerely,

Jonathan M. Magalski - Agent
Principal Environmental Specialist
American Electric Power Service Corporation

Enclosures

AEP Generation Resources Inc.

Conesville Plant
Coshocton County, Ohio

Conesville Five Points Phase III
AML Reclamation Project

LRH 2014-318

General Isolated Wetland Permit Application

Prepared by:

American Electric Power Service Corporation
Environmental Services
1 Riverside Plaza
Columbus, Ohio 43215

Prepared for:

AEP Generation Resources Inc.
Conesville Plant
47201 County Road 273
Conesville, Ohio 43811

May 2015

Table of Contents

1. General Isolated Wetland Permit Application Form (Level One)
2. Supplemental Information to General Isolated Wetland Permit Application Form (Level One)
3. General Isolated Wetland Permit Application Form (Level Two)
4. Figure 1
5. Exhibits 1 (Phase III West) and 2 (Phase III East)
6. Jurisdictional Waters and Isolated Wetlands Report
7. TCLP Characterization Data
8. ODNR Correspondence
9. USFWS Correspondences and Mist Net Survey Report
10. Phase I Cultural Resources Management Survey Report

General Isolated Wetland Permit Application Form (Level One)

General Isolated Wetland Permit Application (Level One)

(For impacts of ½ acre or less to Category 1 & 2 isolated wetlands)

Division of Surface Water 401 Water Quality Certification and Isolated Wetland Permitting Unit

Applicant and Agent Information		
	Applicant:	**Agent:**
Company/ Agency Name:	AEP Generation Resources Inc.	American Electric Power Service Corporation
Name of Contact:	Alan R. Wood, P.E.	Jonathan M. Magalski
Title:	Director, Water & Ecological Resource Services	Principal Environmental Specialist
Technical Point of Contact:	Jonathan M. Magalski	Jonathan M. Magalski
Address:	1 Riverside Plaza	1 Riverside Plaza
City, State, Zip:	Columbus, Ohio 43215	Columbus, Ohio 43215
Phone Number(s):	614-716-1233	614-716-2240
Email Address:	arwood@aep.com	jmmagalski@aep.com

Project Information

Project Name: Conesville Five Points Phase III - AML Reclamation Project

Has Pre-App. Coordination occurred? ☐ **YES** ☒ **NO** **Indicate the 401 reviewer:** Choose an item. **DATE:** Click here to enter a date.

Brief Project Description/Purpose: The purpose of the proposed project is to reclaim pre-law abandoned mine lands to eliminate hazardous highwalls, abate acid mine drainage, restore the subject landscape back to its approximate original contours and reforest the reclaimed areas with vegetation native to the region while utilizing coal combustion residuals in a beneficial manner. See supplemental information for additiona details.

Construction Timeframe (Provide ~start and end dates): August 2014 August 2019

Is any portion of the activity complete now? ☐ **YES** ☒ **NO** **Is this an "After-The-Fact" permit application?** ☐ **YES** ☒ **NO**

Coordinates (degree, minutes, seconds): 40°11' 19.9" **N -** 81° 51' 6.5" **W**

Project Address: **Street:** Immediately South of: 48699 County Road 275 **City or Town:** Coshocton

Zip Code: 43812 **Township:** Franklin **County:** Coshocton

12 Digit HUC No.: 050400040301 and 050400050605	**Watershed Name:** Muskingum River and Wills Creek	**Corps District:** Huntington

Other water related permits issued or required include:

☐ **Individual 404 Permit** – Public Notice #
☐ **Individual 401 WQC -** Choose an item. Click here to enter a date.
☒ **Nationwide Permit #** 27 - Aquatic Habitat Res., Est., & Enh. Activities Will be Submitted: 5/8/2015
☐ **Section 9 Permit** -
☐ **Section 10 Permit** - Choose an item. Click here to enter a date.
☐ **NPDES Permit –** Choose an item. Choose an item. Click here to enter a date.
☐ **Permit to Install –** Choose an item. : Click here to enter a date.
☒ **ODNR Coal Permit** - Date Submitted: 6/2/2014
☐ **ODNR Coastal Permit** - Choose an item. Click here to enter a date.
☐ **Regional Permit -** Choose an item. Click here to enter a date.

Are there other aquatic resources on the project site (check all that apply)?
☐ Perennial Streams ☒ Intermittent Streams ☐ Ephemeral Streams ☒ Non-isolated Wetlands ☒ Lakes/Ponds

I have included the following in this submittal:
☒ Maps showing the project footprint & wetlands ☒ Wetland delineation ☒ Wetland categorization (including 10-page ORAM sheets)
☒ Check for applicable fees ☒ Site photographs ☒ Corps approved jurisdictional determination
☒ Mitigation proposal (including mitigation bank credits or in-lieu fee documentation if appropriate)

Proposed Impacts										
Wetland ID	ORAM Score	Category	Cat. Verified by Ohio EPA?	Ohio EPA Reviewer who Verified	Size (Acres)			Proposed Impacts (Acres)		
					Total	Forest	Non	Forest	Non	Total
See Supplemental Information		1	☐	Choose an item.						
		1	☐	Choose an item.						
		1	☐	Choose an item.						
		1	☐	Choose an item.						
		1	☐	Choose an item.						
Wetland Acreage Totals										
Totals – Category 1 Wetlands										
Totals – Category 2 Wetlands										
Totals – Category 3 Wetlands										

Proposed Wetland Mitigation (Check All That Apply)

☐ **Wetland Mitigation Bank** **Number of Forested Wetland Credits:** **Number of Non-Forested Wetland Credits:**

Wetland Mitigation Bank: Choose an item. **Proof of Reservation?** ☐

☒ **In-Lieu Fee Program** **ILF Sponsor:** Ohio Wetlands Foundition **Number of Wetland Credits:** 1.75

☐ **On-Site Permittee-Responsible Mitigation**

☐ **Restoration/Creation** Choose an item. **Acres** ☐ **Enhancement** Choose an item. **Acres**

☐ **Preservation** Choose an item. **Acres** ☐ **Other**

☐ **Off-Site Permittee-Responsible Mitigation**

☐ **Restoration/Creation** Choose an item. **Acres** ☐ **Enhancement** Choose an item. **Acres**

☐ **Preservation** Choose an item. **Acres** ☐ **Other**

Fees

Are you exempt from fees? ☐ **YES** ☒ **NO** **(If YES, leave fee section blank)**

Application Fee = $ 200.00

Review Fee

Wetland Acres Impacted 0.7 x $500 = $ 350.00

Total Fees ($200 Application Fee + Total Review Fees) due at the time of application submittal = $ 550.00

Standard Applicant - Is the fee cap ($5,000) exceeded? ☐ YES ☒ NO (If YES, maximum fees are $5,200)

Is this an After the Fact (ATF) application? ☐ YES ☒ NO (If YES, double the fees. Maximum fees of $10,000)

PLEASE MAKE FEE CHECK PAYABLE TO: "TREASURER, STATE OF OHIO"

Applicant and Agent Signature

Application is hereby made for an Isolated Wetland Permit. I certify that the information provided on this form and all attachments related to this project are true and accurate to the best of my knowledge:

Applicant Name	Alan R. Wood, P.E.	Applicant Signature	Alan R. Wood

[signature] – Agent

Supplemental Information to General Isolated Wetland Permit Application Form (Level One)

Supplemental Information to General Isolated Wetland Permit Application Form (Level One)

Project Description and Purpose

AEP Generation Resources Inc. (AEP) is in the process of completing the Conesville Five Points Phases I and II AML Reclamation Project (Phases I and II) located approximately 1.5 miles northeast of AEP's Conesville Plant (Plant) near Conesville, Franklin Township, Coshocton County, Ohio (Figure 1). Phases I and II consist of beneficially reusing coal combustion byproducts (CCB's) generated by the Plant to eliminate hazardous highwalls and abate acid mine drainage (AMD) leftover from pre-law mining activity in the area (pre-Surface Mining Control and Reclamation Act of 1977). Phases I and II are a joint demonstration project of abandoned mine land (AML) reclamation using CCB's with the Ohio Department of Natural Resources, Division of Mineral Resources Management (ODNR-DMRM) and The Ohio State University.

AEP proposes to begin the Conesville Five Points Phase III AML Reclamation Project (Phase III) located immediately to the east (Phase III East) and west (Phase III West) of Phases I and II (Figure 1). As with Phases I and II, the proposed Phase III intends to beneficially reuse CCB's generated at the Plant to eliminate hazardous highwalls and abate the AMD leftover from previous pre-law mining activity in the area. The CCB's to be beneficially used for the reclamation include Flue Gas Desulfurization (FGD) gypsum, fixated FGD, fly ash and bottom ash. The goal of the reclamation is to eliminate hazardous highwalls, abate AMD, restore the subject landscape to its approximate original contours and reforest the reclaimed areas with vegetation native to the region while utilizing CCB's in a beneficial manner. The application for beneficial use of CCB's for the reclamation activities is currently under review by the ODNR-DMRM. Initiation of Phase III is planned for August 2015 and anticipated to be completed by August 2019.

Beneficially reusing CCB's for AML serves several purposes. These include:

- Providing large quantities of material to fill the stripped landscape to eliminate the safety hazards and returning the areas back to near pre-mining contours;
- Reducing quantity and improving quality of AMD seepage (pH of the AMD seeps from the Phase III areas range from 3.5 – 3.6 s.u. while the pH of the CCB's are in the 11 s.u. range);
- Redirecting surface water runoff away from the reclaimed area and the underground mine complex. This has the potential to reduce the amount of surface water coming into contact with toxics in the mine complex which will reduce AMD generation; and
- Backfilling and covering the highwalls with a CCB structural fill comprised of low permeability FGD gypsum and fixated FGD will reduce storm water infiltration into and through cracks in the highwalls reducing seepage into the coal seam.

Approximately 1,369,000 and 796,000 cubic yards of CCB's will be beneficially used to reclaim Phase III East and Phase III West, respectively. The ration of CCB's utilized will be approximately 70% fixated FGD, 20% FGD gypsum and 10% fly ash / bottom ash. A minimum of 4 feet of fixated FGD will surround all other CCB's. The CCB's in Phase III East and Phase III West will be capped in an interlocking pattern with approximately 239,000 and 70,000 cubic yards of surrounding overburden, respectively. Once capped, the interlocking overburden will be vegetated with herbaceous vegetation and planted with trees native to the area.

Material characterization has been performed on the CCB's, as well as waters to be impacted and AMD seepage. The CCB's have undergone leaching characterization utilizing traditional TCLP characterization, modified TCLP characterization using DI water and modified TCLP characterization using pond water. Based on the results of the characterizations, none of the tests resulted in toxic amounts of CWA Section 307 toxic pollutants. Although not all Section 307 toxic pollutants were tested, historic testing of CCB's resulted in absence of those pollutants and there is no reason to believe they are present. The results of the characterizations are included with this application.

Proposed Impacts

As summarized in Table 3 of the included Jurisdictional Waters and Isolated Wetlands Report (Report), 46 wetland polygons, identified as Wetlands A through Z, were identified within the investigation area. These wetland polygons cover a total area of approximately 5.18 acres, with 23 identified as jurisdictional and 23 determined to be isolated. Of the jurisdictional wetlands, 0.51 acre was Category 1 and 2.51 acres were Category 2. Of the isolated wetlands 1.18 acres were Category 1 and 0.98 acre was Category 2. No Category 3 wetlands occur within the investigation area. In addition, 10 streams, identified as Streams 1 through 10, were identified. These streams were classified using the HHEI and received scores ranging from 14 to 67. Finally, 6 open water areas were identified during the investigations, 1 being jurisdictional and 5 isolated. The jurisdictional open water area totaled 3.89 acres and the 5 isolated open water areas totaled 0.89 acre. Details of these identified features, as well as completed ORAM and HHEI forms and photographs are included in the Report.

In order to complete the proposed Phase III (East and West) reclamation project, impacts to both jurisdictional and isolated waters are necessary. Impacts to jurisdictional waters on Phase III West have been avoided and will be limited to isolated water impacts. Impacts to both jurisdictional and isolated waters are necessary to complete Phase III East. A pre-construction notification for coverage under NWP #27 has been prepared and submitted concurrently with this General Isolated Wetlands Permit Application for the proposed impacts to jurisdictional waters on Phase III East. Proposed impacts to jurisdictional waters are summarized below in Table 1.

Table 1. Proposed Impacts to Jurisdictional Waters in NWP #27 Application

Waters ID	ORAM Score*	Category	HHEI Score**	PHWH Class	Impacts		
					Linear Feet	Acres	Totals
Wetland A Complex	48.5	2	N/A	N/A	N/A	0.17	0.17
Wetland K Complex	47.2	2	N/A	N/A	N/A	0.20	0.20
Open Water OW-1	N/A	N/A	N/A	N/A	N/A	3.89	3.89
Stream 10	N/A	N/A	53	II	80	0.007	80
Total – Category 1 Wetlands					**N/A**	**0**	**0**
Total – Category 2 Wetlands					**N/A**	**0.37**	**0.37**
Total – Category 3 Wetlands					**N/A**	**0**	**0**
Total – Open Water					**N/A**	**3.89**	**3.89**
Total – Streams					**80**	**0.007**	**80**

***** ORAM Scoring Forms are provided in the Jurisdictional Waters and Isolated Wetlands Report.
** HHEI Scoring Forms are provided in the Jurisdictional Waters and Isolated Wetlands Report.

Proposed impacts to isolated waters for Phase III East include permanently filling 0.26 acre of Modified Category 2 isolated wetlands and 0.72 acre isolated open water. This is in addition to the proposed jurisdictional water impacts summarized in Table 1. In order to complete Phase III West, permanent impacts to 0.44 acre isolated wetlands and 0.17 acre isolated open water is proposed. Proposed impacts to isolated wetlands and their assigned categories are summarized in Table 2 below, along with proposed impacts to isolated open water. Detailed development plans for Phase III West and Phase III East are shown on Exhibits 1 and 2, respectively. Potential alternatives to avoid impacts to isolated wetlands are discussed on the General Isolated Wetland Permit Application Form (Level Two).

Table 2. Proposed Impacts to Isolated Waters including Isolated Wetlands

Waters ID	ORAM Score*	Category	Size (Acres)			Impacts (Acres		
			Forest	Non-Forest	Total	Forest	Non-Forest	Total
Wetland N	29.5	1	0	0.03	0.03	0	0.03	0.03
Wetland O Complex	40	Mod. 2	0	0.04	0.04	0	0.04	0.04
Wetland Q Complex	49	2	0	0.28	0.28	0	0.28	0.28
Wetland R Complex	33	1/2 Gray Zone	0	0.09	0.09	0	0.09	0.09
Wetland X	36.5	Mod. 2	0	0.15	0.15	0	0.15	0.15
Wetland Y	35	Mod. 2	0	0.02	0.02	0	0.02	0.02
Wetland Z	37	Mod. 2	0	0.09	0.09	0	0.09	0.09
Open Water OW-2	N/A	N/A	N/A	N/A	0.36	N/A	N/A	0.36
Open Water OW-3	N/A	N/A	N/A	N/A	0.36	N/A	N/A	0.36
Open Water OW-5	N/A	N/A	N/A	N/A	0.06	N/A	N/A	0.06
Open Water OW-6	N/A	N/A	N/A	N/A	0.11	N/A	N/A	0.11
Totals – Category 1 Wetlands			**0**	**0.03**	**0.03**	**0**	**0.03**	**0.03**
Totals – Category 2 Wetlands**			**0**	**0.67**	**0.67**	**0**	**0.67**	**0.67**
Totals – Category 3 Wetlands			**0**	**0**	**0**	**0**	**0**	**0**
Totals – Open Water			**N/A**	**N/A**	**0.89**	**N/A**	**N/A**	**0.89**

***** ORAM Scoring Forms are provided in the Jurisdictional Waters and Isolated Wetlands Report.
** Includes 1/2 Gray Zone and Mod. 2 Category Wetlands.

Proposed Mitigation

In order to compensate for the unavoidable impacts to jurisdictional Wetland A and K Complexes (0.37 acre), Open Water OW-1 (3.89 acres) and Stream 10 (80 linear feet), AEP is proposing to purchase 1 acre of wetland credit in an approved in lieu fee program and demonstrate that the project will raise the pH of the water in Stream 10 to 6.5 s.u. or greater. Based on the collected pH data from Stream 10, the pH ranges from 5.7 – 5.9 s.u. Compensation for the unavoidable impacts to isolated Wetland O, Q and R Complexes, Wetlands N, X, Y and Z, and Open Water Areas OW-2, OW-3, OW-5 and OW-6, AEP is proposing to purchase an additional 1.75 acres of wetland credit in an approved in lieu fee program. Upon review of RIBITS, there are currently no wetland mitigation bank credits available that service this area. Proposed mitigation for the proposed impacts to isolated open water is abating AMD.

General Isolated Wetland Permit Application Form (Level Two)

General Isolated Wetland Permit Application (Level Two)

(For impacts greater than ½ acre of Category 1 isolated wetlands and greater than ½ acre but not exceeding 3 acres for Category 2 isolated wetlands)

Division of Surface Water 401 Water Quality Certification and
Isolated Wetland Permitting Unit

Project Name:

Applicants must submit a completed General Isolated Wetland Permit Application (Level One Review) in addition to providing the following information and/or demonstrations:

1. **Please provide an analysis of practicable on-site alternatives to the proposed filling of the isolated wetland(s) that would have a less adverse impact on the isolated wetland ecosystem**: Care has been taken during the design of Phase III to avoid impacts to jurisdictional and isolated waters to the greatest extent practicable as reflected on Exhibits 1 and 2. Access roads, soil borrow and stockpile areas, storm water control / detention ponds and associated features were designed into the project to avoid and minimize impacts to features to the greatest extent practicable. Further avoidance or minimization of the isolated wetlands (Wetland O, Q and R Complexes and Wetlands N, X, Y and Z) and isolated open water features (Open Water OW-2, OW-3, OW-5 and OW-6) proposed for impact is not practicable. Impacts to jurisdictional waters, isolated Wetlands X, Y and Z and Open Water OW-2 and OW-3 at Phase III East are necessary to eliminate the hazardous highwalls, abate AMD and provide positive surface drainage. Impacts to isolated Wetland Q and R Complexes and Open Water OW-5 and OW-6 at Phase III West are necessary to eliminate the hazardous highwalls, abate AMD and provide positive surface drainage. Reclamation of neither Phase III East or West could occur without impacts to those waters. Impacts to Wetland Complex O and Wetland N are proposed for installation of a storm water management pond. Conceivably, impacts to Wetland Complex O and Wetland N could potentially be avoided by siting the storm water management pond in a different location, however, this is not practicable due to space limitations and contours. The subject storm water management pond could potentially be shifted to the north, but this would require significantly more excavation and grading, and outletting the pond would pose challenges.

2. **Please provide information indicating whether high quality waters, as defined in rule 3745-1-05 of the Administrative Code, are to be avoided by the proposed filling of the isolated wetland(s):** As indicated in Tables 1 and 2 of the supplemental information to General Isolated Wetland Permit Application Form (Level One), Phase III will result in permanent impacts to 0.37 and 0.28 acre of Category 2 jurisdictional and isolated wetlands, respectively. Category 2 wetlands are defined as high quality waters in rule 3745-1-05 of the Administrative Code. The acreage provided herein does not include permanent impacts to Category 1/2 Gray Zone or Modified Category 2 wetlands as totaled in the respective tables for impact and mitigation determinations to Category 2 wetlands. Although these wetlands scored Category 2, function and value is limited, they show signs of impairment (AMD), and were created by pre-law mining activities. Compensation at a ratio of 3:1 for all wetland impacts is being proposed to offset the losses and the project should provide for water quality improvements as discussed in the supplemental information to General Isolated Wetland Permit Application Form (Level One).

3. **Please provide maps and narratives describing buffers provided for any isolated wetland(s) that will be avoided at the site:** A minimum setback of 25 feet will be provided to all avoided isolated wetlands and jurisdictional waters where achievable. The setback distance will provide an adequate buffer from all construction activities and will also meet requirements included in Ohio EPA's Authorization for Storm Water Discharges Associated with Construction Activity permit. If a 25-foot buffer distance is not achievable, proper onsite identification and protection measures will be taken to protect the avoided waters.

4. **Please demonstrate that the wetland(s) to be filled are not locally or regionally scarce and do not contain rare, threatened or endangered species:** All wetlands to be impacted by implementation of Phase III have developed as a result of past disturbances from pre-law mining activities. The wetlands proposed for impact exhibit similar types of flora and fauna found at other wetlands throughout Ohio. However, many of the wetlands proposed for impact exhibit acid mine drainage impairment (low pH, laden with iron and other metals, sulfate, etc.). These conditions limit use by fauna, let alone rare, threatened or endangered species. During project scoping, the USFWS and ODNR, Natural Heritage Program were consulted. The ODNR search resulted in a record of the state and federally endangered Snuffbox mussel being known to occur in Wills Creek (see enclosed correspondence). Due to distance from the Phase III project, the Snuffbox will not be physically impacted. In fact, Phase III should improve water quality by abating AMD in the watershed. The inquiry to USFWS resulted in the need to perform summer mist net surveys. The surveys were conducted in the summer of 2014 and resulted in the capture of one (1) adult male northern long-eared bat that is proposed for listing as threatened. As implied in a correspondence letter from USFWS, and to be protective of all bats, approximately 93 acres were cleared of trees prior to March 31,

2015. The clearing activities used extreme caution not to impact jurisdictional or isolated waters. Correspondence with USFWS and the subject mist net survey report is included with this application.

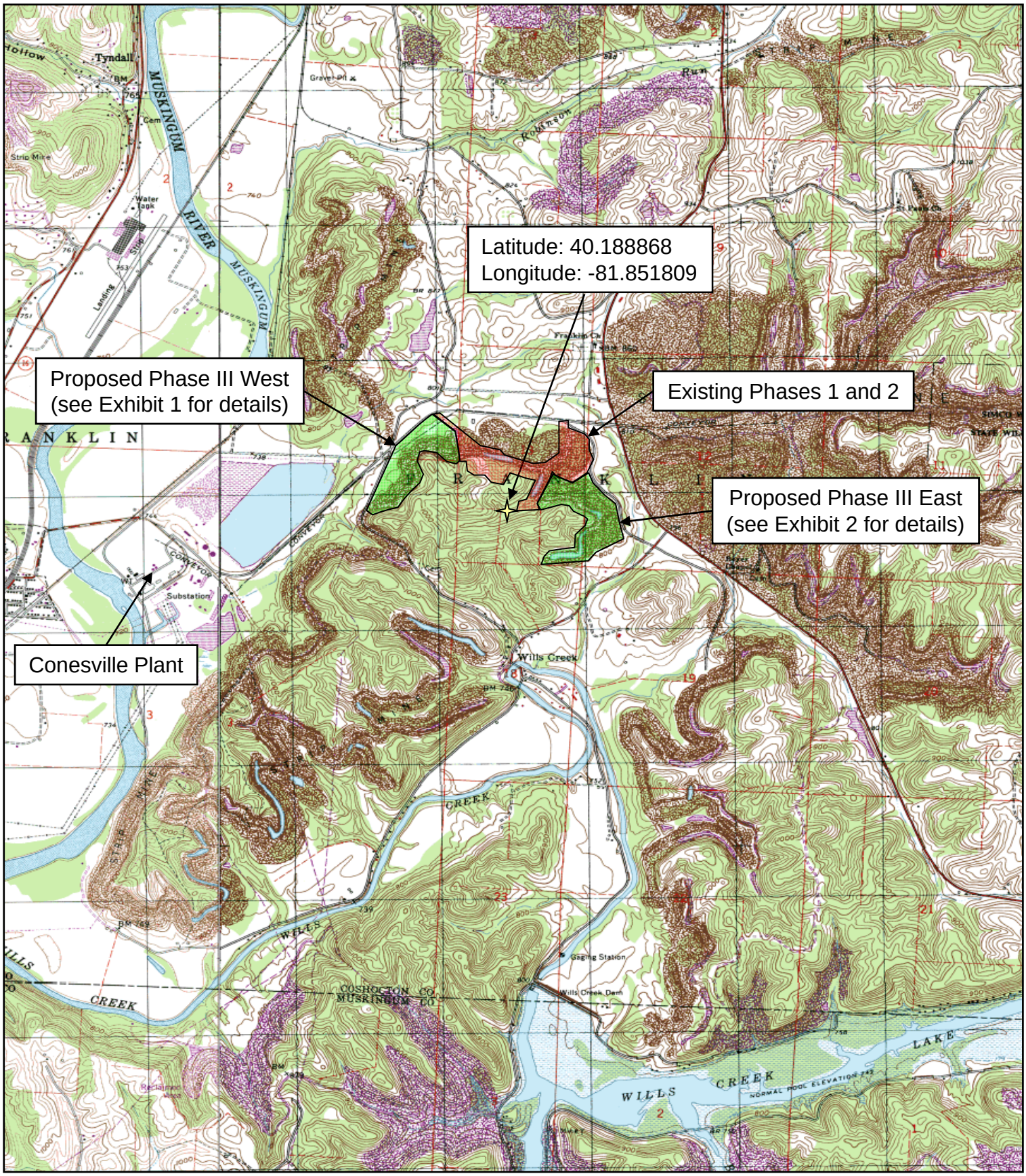
5. **Please demonstrate that the project impacts would not result in significant degradation to the aquatic ecosystem:** The Phase III project will not degrade the aquatic ecosystem and is actually designed as environmental restoration that will: 1) eliminate safety hazards caused by the highwalls and return the areas back to near pre-mining contours, 2) reduce the quantity and improve the quality of AMD seepage in the vicinity, 3) redirect surface water runoff away from the reclaimed area and the underground mine complex thereby reducing the amount of surface water coming into contact with toxics in the mine complex which will reduce AMD generation, and 4) backfilling and covering the highwalls with a CCB structural fill comprised of low permeability FGD gypsum and fixated FGD will reduce storm water infiltration into and through cracks in the highwalls reducing seepage into the coal seam and further AMD.

6. **Please provide a comprehensive post-development storm water plan that includes water quality improvement measures:** The primary objective of the post-development storm water plan is to reduce AMD and re-establish a rich forest community native to the region. The reclamation plan incorporates native tree planting with a native grass seed mixture. Once the placement of the CCBs is complete, the post-development storm water plan calls for a variable thickness mine spoil layer overtopping the fill. The loosely compacted mine spoil layer will provide an excellent medium for the establishment of trees. While post construction storm water controls are not required for mine reclamation sites, this site will utilize some post construction controls as shown on Exhibits 1 and 2. Temporary sediment and erosion controls will be implemented during all phases of construction until the east and west phases achieve permanent stabilization. These temporary controls are provided in a site-specific Storm Water Pollution Prevention Plan developed for Phase III.

Applicant and Agent Signature			
Application is hereby made for an Isolated Wetland Permit. I certify that the information provided on this form and all attachments related to this project are true and accurate to the best of my knowledge:			
Applicant Name	*Alan R. Wood, P.E.*	**Applicant Signature**	Alan R. Wood

- Agent

Figure 1



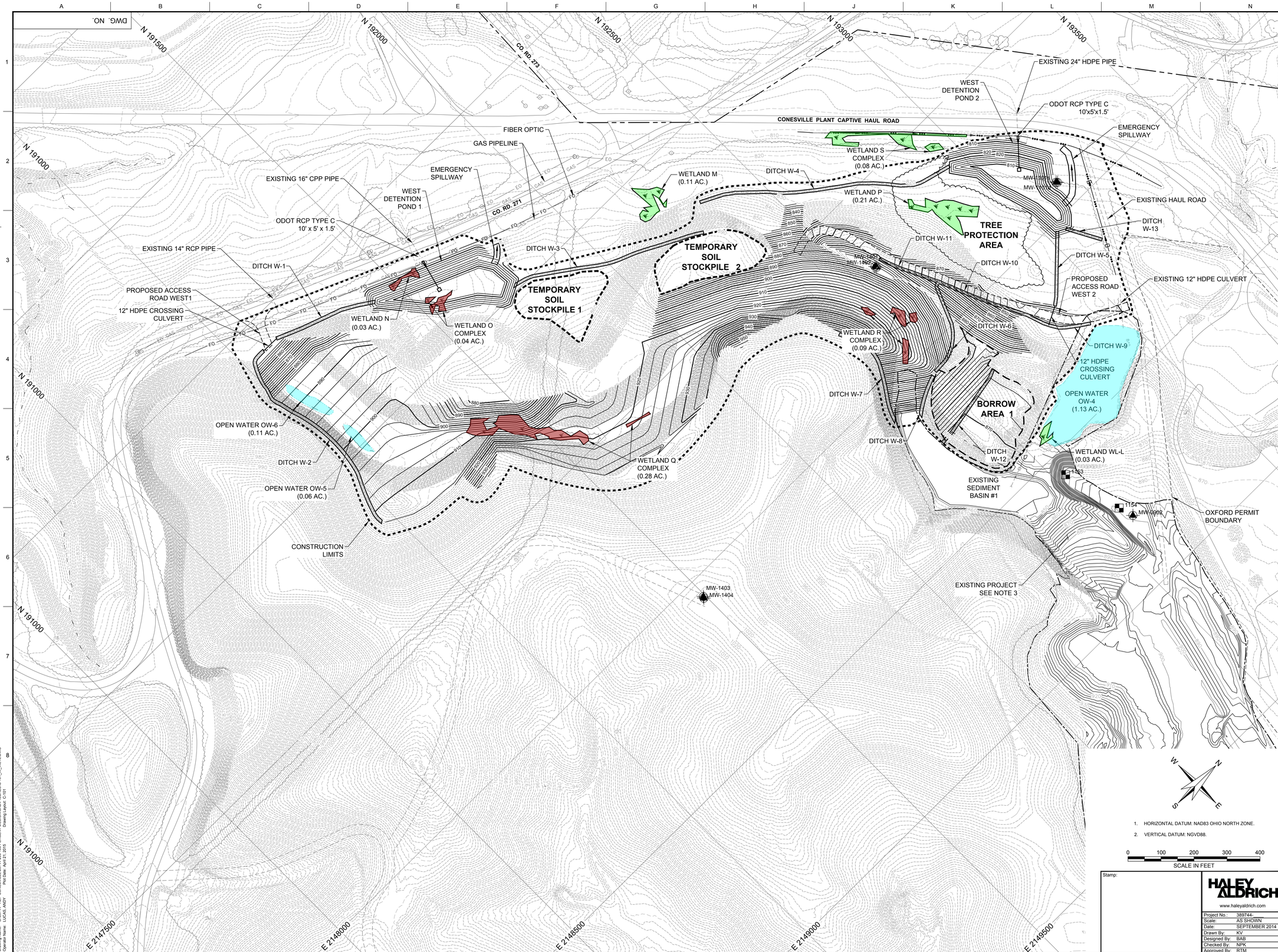
N

Willis Creek, Ohio
Quadrangles
USGS Topographic

AEP Generation Resources Inc.
Conesville Five Points Phase III
AML Reclamation Project
Figure 1 – *USGS Site Location Map*

Water & Ecological Resource Services

Exhibits 1 (Phase III West) and 2 (Phase III East)



LEGEND

- PROPERTY LINE
- GRAVEL ROAD
- PAVED ROAD
- EXISTING STRUCTURE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING TREES AND/OR BRUSH
- WETLANDS - UNIMPACTED
- WETLANDS - IMPACTED
- STREAMS / WATER
- CONSTRUCTION LIMITS
- MW-1302 MONITORING WELL LOCATION AND NUMBER
- BM
- DITCH
- FO FIBER OPTIC
- GAS GAS
- EO OVERHEAD POWER

NOTES

1. EXISTING TOPOGRAPHIC CONTOURS GENERATED FROM HENDERSON AERIAL SURVEYS INC. AERIAL PHOTOGRAPHY DATED 03-23-13 AND AEP DRAWING NO. 56-30005-4 BY STANTEC CONSULTING SERVICES. INC.
2. THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES.
3. GRADES REPRESENT AS-BUILT PHASE 1+2 GRADES.
4. WETLANDS AND STREAMS REFERENCED FROM WETLAND DELINEATION REPORT, APPENDIX 10 IN BENEFICIAL REUSE APPLICATION.
5. THIS EXHIBIT IDENTIFIES WETLANDS TO BE DISTURBED AS PART OF PHASE 3 OF THE CONESVILLE FIVE POINTS PROJECT. FINAL DESIGN PLAN INFORMATION SHOWN ON THIS PLAN IS PRELIMINARY AND IS PROVIDED AS AN APPROXIMATE DEPICTION OF THE ANTICIPATED CUTTING, FILLING AND FINAL GRADING WITHIN THE LIMITS OF CONSTRUCTION.

Ohio Utilities Protection Service Call 811 before you dig

DATE	NO.	DESCRIPTION	APP'D.
REVISIONS			

"THIS DRAWING IS THE PROPERTY OF THE AMERICAN ELECTRIC POWER SERVICE CORP. AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED, IN WHOLE OR IN PART, OR USED FOR FURNISHING INFORMATION TO ANY PERSON WITHOUT THE WRITTEN CONSENT OF THE AEP SERVICE CORP., OR FOR ANY PURPOSE DETRIMENTAL TO THEIR INTEREST, AND IS TO BE RETURNED UPON REQUEST"

AEP GENERATION RESOURCES, INC.

CONESVILLE FIVE POINTS PHASE III

CONESVILLE OHIO

CONESVILLE PLANT

PHASE III WEST

EXHIBIT 1

1. HORIZONTAL DATUM: NAD83 OHIO NORTH ZONE.
2. VERTICAL DATUM: NGVD88.

0 100 200 300 400

SCALE IN FEET

Stamp:

HALEY ALDRICH

www.haleyaldrich.com

Project No.:	389744-
Scale:	AS SHOWN
Date:	SEPTEMBER 2014
Drawn By:	KV
Designed By:	BAB
Checked By:	NPK
Approved By:	RTM

DWG. NO.

SCALE: AS SHOWN — CIVIL ENGINEERING DIVISION

DR: CH: SUPV: ENGR: DATE: — APPROVED BY

AEP AMERICAN ELECTRIC POWER

AEP SERVICE CORP.
1 RIVERSIDE PLAZA,
COLUMBUS, OH 43215

Drawing Name: G:\389744 - AEP CONESVILLE\389744-203 100 PERCENT DESIGN\CAD\FIGURES\C-101_W_WETL.DWG
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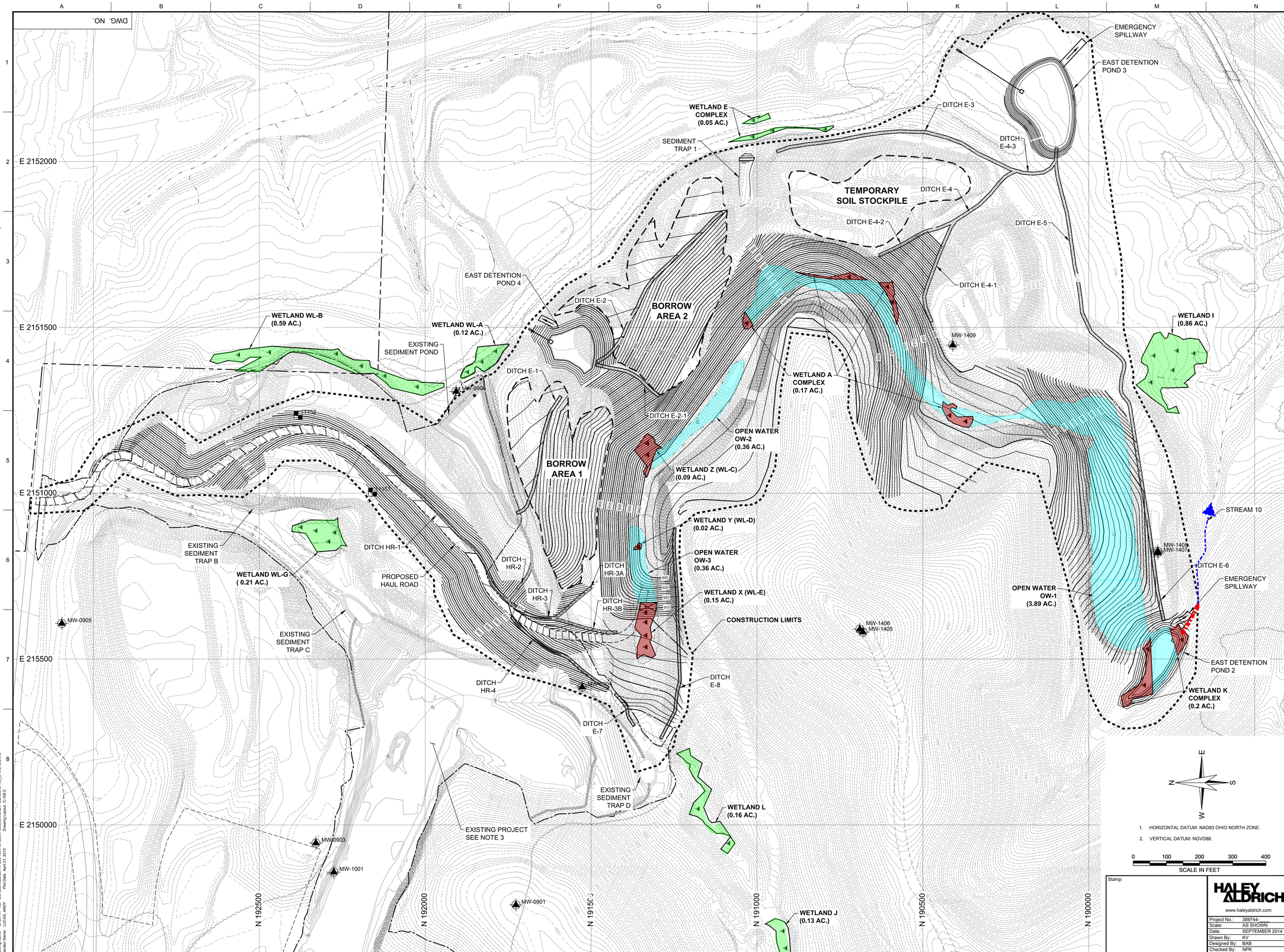


LEGEND

- PROPERTY LINE
- GRAVEL ROAD
- PAVED ROAD
- EXISTING STRUCTURE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING TREES AND/OR BRUSH
- WETLANDS - UNIMPACTED
- WETLANDS - IMPACTED
- STREAMS / WATER
- CONSTRUCTION LIMITS
- DITCH FLOPEN WATER OW
- MW-1302 MONITORING WELL LOCATION AND NUMBER
- BM

NOTES

1. EXISTING TOPOGRAPHIC CONTOURS GENERATED FROM HENDERSON AERIAL SURVEYS INC. AERIAL PHOTOGRAPHY DATED 03-23-13 AND AEP DRAWING NO. 56-30005-4 BY STANTEC CONSULTING SERVICES. INC.
2. THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOPEN WATER OWN ARE APPROXIMATE, ARE SHOPEN WATER OWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES.
3. GRADES REPRESENT AS-BUILT PHASE 1+2 FINAL GRADES.
4. WETLANDS AND STREAMS REFERENCED FROM WETLAND DELINEATION REPORT, APPENDIX 10 IN BENEFICIAL REUSE APPLICATION.
5. THIS EXHIBIT MAP IDENTIFIES WETLANDS TO BE DISTRIBUTED AS PART OF PHASE 3 OF THE CONESVILLE FIVE POINTS PROJECT. FINAL DESIGN PLAN INFORMATION SHOPEN WATER OWN ON THIS PLAN IS PRELIMINARY AND IS PROVIDED AS AN APPROXIMATE DEPICTION OF THE ANTICIPATED CUTTING, FILLING AND FINAL GRADING WITHIN THE LIMITS OF CONSTRUCTION.

Ohio Utilities Protection Service Call 811 before you dig

DATE	NO.	DESCRIPTION	APPD.
		REVISIONS	

"THIS DRAWING IS THE PROPERTY OF THE AMERICAN ELECTRIC POWER SERVICE CORP. AND IS LOANED UPON CONDITION THAT IT IS NOT TO BE REPRODUCED OR COPIED, IN WHOLE OR IN PART, OR USED FOR FURNISHING INFORMATION TO ANY PERSON WITHOUT THE WRITTEN CONSENT OF THE AEP SERVICE CORP., OR FOR ANY PURPOSE DETRIMENTAL TO THEIR INTEREST, AND IS TO BE RETURNED UPON REQUEST"

AEP GENERATION RESOURCES, INC.

CONESVILLE FIVE POINTS PHASE III

CONESVILLE OHIO

CONESVILLE PLANT

PHASE III EAST

EXHIBIT 2

1. HORIZONTAL DATUM: NAD83 OHIO NORTH ZONE.
2. VERTICAL DATUM: NGVD88.

0 100 200 300 400
SCALE IN FEET

Stamp:

HALEY ALDRICH
www.haleyaldrich.com

Project No.:	389744-
Scale:	AS SHOWN
Date:	SEPTEMBER 2014
Drawn By:	KV
Designed By:	BAB
Checked By:	NPK
Approved By:	RTM

DWG. NO.

SCALE: AS SHOWN — CIVIL ENGINEERING DIVISION

DR: CH: SUPV: ENGR: DATE: — APPROVED BY

AMERICAN ELECTRIC POWER

AEP SERVICE CORP.
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

Drawing Name: G:\389744 - AEP CONESVILLE\389744-203 100 PERCENT DESIGN\CADD\FIGURES\C-108_E-WETL.DWG
Operator Name: LUCAS, ANDY Plot Date: April 21, 2015 Drawing Layout: C-108 E

Jurisdictional Waters and Isolated Wetlands Report

DEPARTMENT OF THE ARMY
HUNTINGTON DISTRICT, CORPS OF ENGINEERS
502 EIGHTH STREET HUNTINGTON, WEST VIRGINIA 25701-2070

June 8, 2015

Regulatory Division
Energy Resource Branch
LRH-2014-318-MUS-Unnamed tributary to Wills Creek

APPROVED JURISDICTIONAL DETERMINATION

Mr. Jonathan M. Magalski
American Electric Power
1 Riverside Plaza
Columbus, OH 43215-2373

Dear Mr. Magalski:

I refer to the "Jurisdictional Waters and Isolated Wetlands report for the American Electric Power (AEP) 5 High Points AML Reclamation Project Expansion- Conesville Plant" received in this office on October 23, 2013 and revised August 29, 2014 with additional information received from a field investigation by representatives of this office on December 10, 2014. The preceding information is concerning potential waters of the United States for the approximate 363 acre study area located in Clayton Township and Harrison Township, Coshocton County, Ohio. A total of forty-two (42) potential waters of the United States were identified within the study area. This JD request has been assigned the following file number: LRH-2014-318-MUS-Unnamed tributary to Wills Creek. Please include this file number on all future correspondence related to this JD.

The United States Army Corps of Engineers (Corps) authority to regulate waters of the United States is based on the definitions and limits of jurisdiction contained in 33 CFR 328 and 33 CFR 329. Section 404 of the Clean Water Act requires that a Department of the Army (DA) permit be obtained prior to placing dredged or fill material into waters of the United States, including wetlands. Section 10 of the Rivers and Harbors Act of 1899 requires that a DA permit be obtained for any work in, on, over or under navigable water. Our December 2, 2008 headquarters guidance entitled *Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in* *Rapanos v. United States* & *Carabell v. United States* was followed in the final verification of Clean Water Act jurisdiction.

Based on a review of the submitted information it has been determined that Stream 1 (unnamed tributary to Wills Creek, 25 linear feet) and Stream 2 (unnamed tributary to Wills Creek, 65 linear feet) are intermittent relatively permanent waters (RPW's), and they are indirect tributaries to the Muskingum River, a traditional navigable water (TNW) and are therefore jurisdictional. Stream 3 (unnamed tributary to the Muskingum River, 28 linear feet) has been determined to have a significant nexus to the Muskingum River and is therefore jurisdictional.

Open Water Pond 1 (3.89 acres) drains into Stream 1 and is therefore jurisdictional. Wetland A-1 (0.22 acre), Wetland A-2 (0.040 acre), Wetland A-3 (0.045 acre), Wetland A-4 (0.063 acre), Wetland K-1 (0.136 acre), Wetland K-2 (0.064 acre) abut Open Water Pond 1 and are therefore jurisdictional. Wetland P (0.21 acre), Wetland S-1 (0.058 acre) and Wetland S-2 (0.022 acre) are determined to be adjacent to Stream 3 and have a significant nexus to the Muskingum River, traditional navigable water (TNW).

Open water ponds OW-2 (0.36 acre), OW-3 (0.36 acre), OW-4 (1.130 acres), OW- 5 (0.060 acre), OW-6 (0.110 acre), and Wetland A (0.12 acre), Wetland B (0.59 acre), Wetland E-1 (0.029 acre), Wetland E-2 (0.021 acre), Wetland G (0.21 acre), Wetland J (0.13 acre), Wetland L (0.16 acre), Wetland M (0.11 acre), Wetland N (0.03 acre), Wetland O-1 (0.008 acre) Wetland O-2 (0.032 acre), Wetland Q-1 (0.272 acre), Wetland Q-2 (0.008 acre), Wetland R-1 (0.013 acre), Wetland R-2 (0.034 acre), Wetland R-3 (0.014 acre), Wetland R-4 (0.029 acre), Wetland X (0.15 acre), Wetland Y (0.02 acre), and Wetland Z (0.09 acre) are surrounded by uplands and do not present a hydrological connection to the tributary system. Based on the absence of a hydrological connection or adjacency to a water of the United States, these wetlands and open water ponds are determined to be isolated. Isolated waters are only regulated under Section 404 of the Clean Water Act when the use, degradation or destruction of which could affect interstate or foreign commerce. The isolated wetlands and open water ponds totaling approximately 0.46 acre and 2.02 acres, respectively, have no substantial connection to interstate or foreign commerce and are not considered to be waters of the United States. You should contact the Ohio Environmental Protection Agency, Division of Surface water at (614) 644-2139 to determine state permitting requirements for isolated waters.

Four (4) sediment basins, #1 (1.58 acres), #2 (0.09 acre), #3 (0.66 acre) and #4 (0.18 acre) totaling 2.51 acres have been constructed through uplands pursuant to stormwater management criteria for Section 402 of the Clean Water Act (33 CFR 328.3(a)) and are determined to be non-jurisdictional features.

In accordance with the June 5, 2007 Joint Memorandum between the United States Environmental Protections Agency (USEPA) and the Corps, and the January 28, 2008 Corps Memorandum regarding coordination on jurisdictional determinations, this determination was coordinated with USEPA Region 5, with significant nexus coordination completed on May 20, 2015 and isolated waters coordination completed on May 25, 2015.

This jurisdictional verification is valid for a period of five (5) years from the date of this letter unless new information warrants revision of the delineation prior to the expiration date. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the Great Lakes and Ohio River Division Office at the following address:

Appeal Review Officer
United States Army Corps of Engineers
Great Lakes and Ohio River Division
550 Main Street, Room 10524
Cincinnati, Ohio 45202-3222
Phone: (513) 684-7261 Fax: (513) 684-2460

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by August 2, 2015. **It is not necessary to submit an RFA form to the Division office if you do not object to the determination in this letter.**

This determination has been conducted to identify the limits of the Corps' Clean Water Act jurisdiction for the particular site identified in this request. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are United States Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

If you have any questions concerning the above, please contact Deb Henry of the Dillon Lake Field Office at (740) 454-2225 ext. 5 or at Debra.J.Henry@usace.army.mil.

Sincerely,

Christopher L. Carson
Regulatory Project Manager
Energy Resource Branch

Enclosures
Copy furnish letter only to:

Mr. Alan Wood
1 Riverside Plaza- 22nd Floor
Columbus, OH 43215

Ms. Rachel Taulbee
Ohio EPA, Division of Surface Water
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

Approved Jurisdictional Determination Table - AEP 5 Points AML

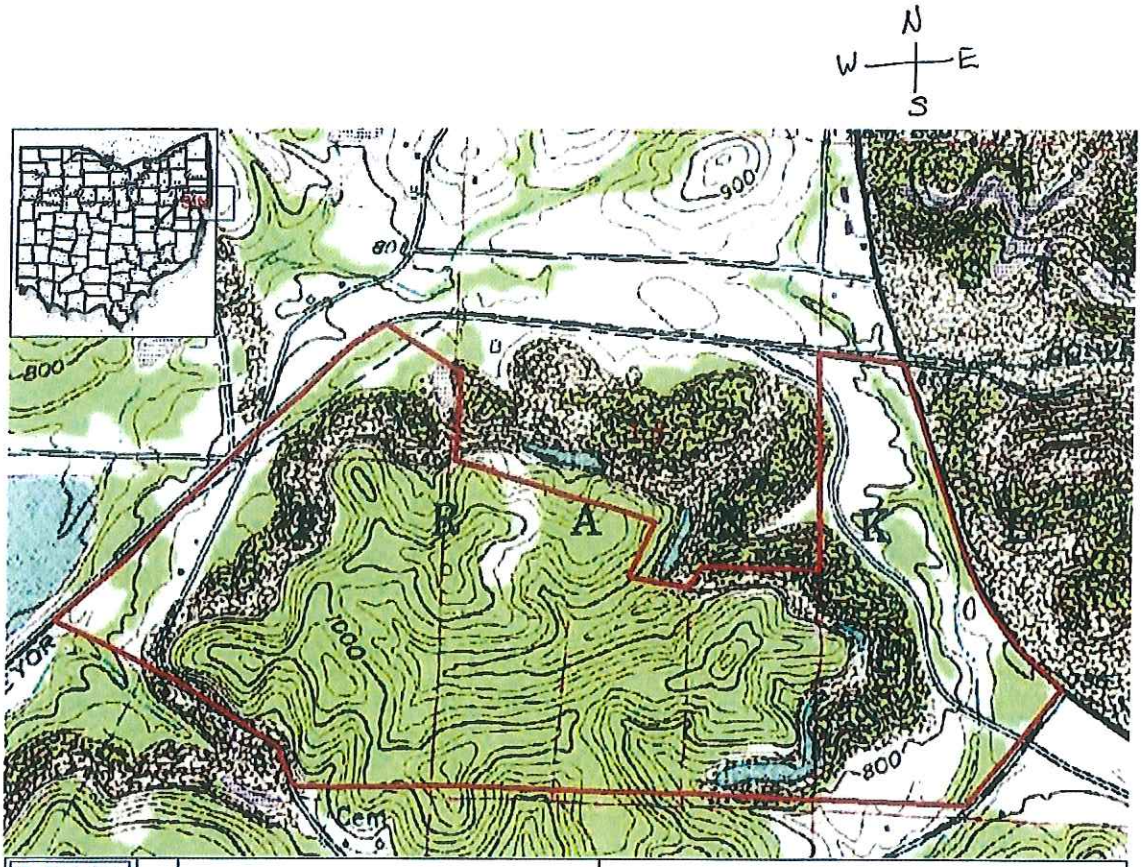
DA # LRH-2014-318-MUS

			Jurisdictional					Non-Jurisdictional				
			Streams - linear feet			Wetland	Imp/Pond	Streams/Ditches - linear feet			Wetland	Imp/Pond
Name	RR	JD	per.	int.	eph.	acre	acre	per.	int.	eph.	acre	acre
Stream 1		RPW		25								
Stream 2		RPW		65								
Stream 3		NRPW			28							
Open Water Pond OW-1		RPWN					3.890					
Wetland A-1		RPWN				0.220						
Wetland A-2		RPWN				0.040						
Wetland A-3		RPWN				0.045						
Wetland A-4		RPWN				0.063						
Wetland K-1		RPWN				0.136						
Wetland K-2		RPWN				0.064						
Wetland P		RPWN				0.210						
Wetland S-1		RPWN				0.058						
Wetland S-2		RPWN				0.022						
Wetland A		Isolated									0.120	
Wetland B		Isolated									0.590	
Wetland E-1		Isolated									0.029	
Wetland E-2		Isolated									0.021	
Wetland G		Isolated									0.210	
Wetland J		Isolated									0.130	
Wetland L		Isolated									0.160	
Wetland M		Isolated									0.110	
Wetland N		Isolated									0.030	
Wetland O-1		Isolated									0.008	
Wetland O-2		Isolated									0.032	
Wetland Q-1		Isolated									0.272	
Wetland Q-2		Isolated									0.008	
Wetland R-1		Isolated									0.013	
Wetland R-2		Isolated									0.034	
Wetland R-3		Isolated									0.014	
Wetland R-4		Isolated									0.029	
Weland X		Isolated									0.150	
Wetland Y		Isolated									0.020	
Wetland Z		Isolated									0.090	
Open Water Pond OW-2		Isolated										0.360
Open Water Pond OW-3		Isolated										0.360
Open Water Pond OW-4		Isolated										1.130
Open Water Pond OW-5		Isolated										0.060
Open Water Pond OW-6		Isolated										0.110
Sediment Basin 1		NJD										1.580
Sediment Basin 2		NJD										0.090
Sediment Basin 3		NJD										0.660
Sediment Basin 4		NJD										0.180
		TOTALS:	0.00	90.00	28.00	0.858	3.890	0.00	0.00	0.00	2.070	4.530

118.00

*RPW - relatively permanent water
*NRPW - non-relatively permanent water subject to significant nexus determination
*NRPW - non-relatively permanent water subject to significant nexus determination
*RPWWN - wetland adjacent to a relatively permanent water, and may or may not be abutting or adjacent to a NRPW or NJD
*ISOLATED - isolated/non-jurisdictional water
*NJD - non-jurisdictional water
*UPLAND - features that do not exhibit a stream or water resource, and may or may not be a hydraulic connection for other waters

LRH-2014-318-MLS-UT-Trib to Wills Creek
Conesville Plant
5 Points Reclamation Project Expansion



MAD Scientist & ASSOCIATES LLC	N	Figure 1. General Site Location	Source: DeLorme Topo North America 9.0
		Conesville, OH	Created By: LS / Created 06-17-2013