



155 East Broad Street
21st Floor
Columbus, Ohio, 43215

o: 614-222-1330
f: 614-222-1337

February 23, 2015

Ms. Barcy F. McNeal, Secretary
Public Utilities Commission of Ohio
180 East Broad Street, 11th Floor
Columbus, Ohio 43215

Re: 15-324-EL-BLN, Duke Energy Ohio, Inc.'s Letter of Notification for the 138 kV
Transmission Line Tap to Enyart Substation

Dear Ms. McNeal:

In accordance with Ohio Administrative Code Rules 4906-5-02 and 4906-11-01, Duke Energy Ohio, Inc., submits the attached Letter of Notification, for expedited approval. A check in the amount of \$2,000 for expedited processing is included. The requested start date of construction is March of 2015. Construction is expected to be completed by December 31, 2015.

As required by the rules, Duke Energy Ohio has sent a copy of the Letter of Notification to officials. Please find attached copies of cover letters that have been forwarded to the Symmes Township Branch of the Cincinnati Public Library, the offices of the Hamilton County Commissioners, the Symmes Township Trustees, and the Hamilton County Planning and Development Director.

Respectfully submitted,


Jeanne W. Kingery
Associate General Counsel

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**LETTER OF NOTIFICATION FOR THE
138 KV TRANSMISSION LINE TAP TO
ENYART SUBSTATION**

PUCO Case Number 15-324-EL-BLN

Submitted pursuant to OAC 4906-11-01

Duke Energy Ohio, Inc.

February 23, 2015



LETTER OF NOTIFICATION

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This Letter of Notification has been prepared by Duke Energy Ohio, Inc. (hereafter "Duke Energy") in accordance with Ohio Administrative Code (OAC) **Section 4906-11-01** requirements. The following sections correspond to the administrative code sections for the requirements of a Letter of Notification to the Ohio Power Siting Board (OPSB).

4906-11-01(A) PROJECT OVERVIEW

Duke Energy proposes to construct 0.22 miles of 138 kV transmission line to loop between the existing Montgomery-Foster 138 kV transmission line (F13746) and the planned Enyart distribution substation. The project is located in Symmes Township of Hamilton County, Ohio approximately 17 miles northeast of Cincinnati, as illustrated in Figure 1 (Project Vicinity map). The site of the planned transmission line, and the Enyart Substation, is on Montgomery Road just south of Union Cemetery Road and is situated on a 6.5-acre parcel owned by Duke Energy. The 0.22 miles of transmission line will be constructed entirely on Duke Energy property and existing (or planned) easement within the Montgomery Road right-of-way.

4906-11-01 (B) GENERAL INFORMATION

(B)(1)(a) Project Name: This proposed project is referred to by Duke Energy Ohio as the 138 kV Transmission Line Tap to Enyart Substation.

(B)(1)(b) Project Description:

Duke Energy Ohio plans to construct and install the 138 kV transmission line based on the alignments, and the seven pole structures, illustrated in Figure 2 (Site Location map). The 6.5 acre lot (owned by Duke Energy) consists of mostly sloping topography toward an un-named tributary that runs through the middle of the property (north to south) for 800 linear feet until enters a culvert beneath Montgomery Road. The proposed transmission lines will connect to the north and south side of the planned Enyart Substation which will be positioned toward the back of the property. The transmission lines terminate on existing pole structures located on the east side of Montgomery Road, thus the new lines will span across the road. The alignments were designed to minimize the impacts on the tributary by positioning the line closer to the property boundary on more topographically elevated parts of the property rather than adjacent to the stream's banks.

(B)(1)(c) Reason the Project Meets Letter of Notification Requirements:

This project qualifies as a Letter of Notification filing because it meets the requirements outlined in the OAC 4906-1-01, Interim Appendix A (1)(d). The rule reads: *"Rerouting or extension or new construction of single or multiple circuit electric power transmission lines(s) as follows: (e) Line(s) one hundred twenty-five kV and above, but less than three hundred kV, and greater than 0.2 miles in length but not greater than two miles in length."*

(B)(2) Need for the Project

The 0.22 miles of transmission lines are an essential component of the Enyart Substation project which has primary objective of increasing system capacity and improve system reliability due to load growth on the Duke Energy system in the Symmes Township area.

(B)(3) Project Location Relative to Existing or Proposed Lines/Forecast Report

The location of this project is illustrated on Figures 1 and 2. Figure 1 shows the general project vicinity illustrated on a USGS topographic quadrangle map. Figure 2 illustrates the planned pipeline location, water resources in the project vicinity, and additional details depicted on an aerial imagery map. This proposed project was not included in the Long-Term Forecast Reports filed with the OPSB.

(B)(4) Alternatives Considered

Given the location of the planned Enyart Substation, and the need to connect this facility to the Montgomery-Foster transmission line located adjacent to Montgomery Road right-of-way, the proposed route was the only reasonable alternative available and no others were considered.

(B)(5) Anticipated Construction Schedule

Construction is planned to begin in March of 2015. The Project is anticipated to be completed and in-service in December 31, 2015.

(B)(6) Area Maps and Directions to Project Area

From Columbus, OH take I-71 South to the Mason-Montgomery Road exit #19 near Mason, Ohio. Turn left at the end of the ramp onto Mason-Montgomery Road. Travel 0.2 miles then turn left onto Fields Ertel Road. Travel approximately 0.6 miles and turn right on Union Cemetery Road. Travel 0.25 miles and turn right onto Montgomery Road. The project site is on the right.

(B)(7) Property Easements

Duke Energy owns the land on which the transmission lines will be constructed. With the exception of coordination with the Hamilton County Engineer's for the aerial crossing of Montgomery Road, and a possible easement revision to cross this public road right-of-way, no new property easements are needed.

4906-11-01 (C) TECHNICAL FEATURES

(C)(1) Operating Characteristics, Structures/Land Requirements

The new 138 kV transmission conductor will be three phases 954 ACSR 45/7 (Rail) with 1/0 ACSR "Raven" as static wire. The line is to be operated at 100°C. The 138 kV steel structures will consist of horizontal posts in a back-to-back configuration and will stagger vertically as the tangents transition to angle structures. The angles will be vertically stacked with the 138 kV conductors. Refer to Appendix A for a diagram of typical steel poles to be used. Angle structures, in particular heavy angles, will be supported using guy lines and anchors.

(C)(2) Electric and Magnetic Fields (EMF)

Estimates of worst-case electric and magnetic fields (EMF) were calculated using a representative cross-section model of the planned 138kV three-phase Enyart Transmission Project. Calculations were performed using the Corona and Field Effects program developed by engineers at the Bonneville Power Administration (BPA). The BPA program utilizes exact electric and magnetic field solutions for two-dimensional cross-section models that assume infinite straight line conductors at a constant height. The approximate lowest sag height for a span is used for the calculations to arrive at estimates of worst-case field magnitudes; electric and magnetic field magnitudes generally decrease moving toward the pole structures because of increasing conductor height from the ground.

In the Enyart cross-section model, the phase conductors are arranged in a vertical configuration offset to one side of the steel pole and held out with insulator standoffs. A shield wire is located at the top of the pole. As noted above, worst-case estimates are calculated using the lowest sag height between pole structures (approximately 48 feet from ground level to the bottom phase conductor) based on a preliminary profile design for the maximum conductor operating temperature of 100 degrees Celsius.

The 138kV circuit consists of three 954 kCM 45x7 ACSR conductors, each conductor with an outside diameter (OD) of 1.165 inches. The shield wire is assumed to a 0.375 inch OD galvanized steel. Table 1 lists the position coordinates for each of the phase conductors and shield wire as modeled in the representative cross-section. Dimensions are in feet with horizontal (x) values relative to the pole center line and with conductor heights (y) relative to ground level for the section being modeled based on the approximate lowest sag height as noted above.

Table 1. Conductor position coordinates for each modeled cross-section (relative to centerline and ground level).

138kV Circuit Conductor Positions							
A phase		B phase		C phase		shield wire	
x (ft)	y (ft)	x (ft)	y (ft)	x (ft)	y (ft)	x (ft)	y (ft)
5.45	47.95	5.45	55.95	5.45	63.95	0.70	72.20

Electric fields are calculated for an assumed operating voltage of 145kV that represents 105% of the nominal 138kV design voltage. Magnetic fields are calculated for three load scenarios:

1. Normal maximum loading, 475 amperes
2. Emergency line loading, 1263 amperes
3. Winter normal conductor rating, 1585 amperes

All calculations are made at a height of 3.28 ft (1 meter) above ground level at lateral positions that correspond to the edge of right-of-way (EROW) on both sides as well as directly beneath the conductors where field magnitudes are largest. For the project, the closest property line is approximately 20 feet from the center line, so this was assumed to be a conservative ROW estimate, and field values were calculated at 20 feet to both side of the pole center line. Field values are calculated on both sides because the phase conductors are offset to the positive side in the model. Thus, field levels are larger on the right side of the pole center line.

EMF results are summarized in Table 2, with electric field results on the left for an operating voltage of 145kV, and three sets of magnetic field results on the right based on the three modeled load scenarios described above (545, 1,263, and 1,585 amperes, respectively). The three results values separated by the two slashes represent calculated field magnitudes at the left EROW (x= -20ft), directly beneath the conductors, and right EROW (x=+20ft), respectively.

Table 2. Summary of calculated electric and magnetic field magnitudes from cross-section model.

EMF SUMMARY TABLE	Electric Field (kV/m)	Magnetic Field (mG)		
		Normal Max	Emergency	Winter Normal
Circuit Description	105% Nominal Voltage			
138kV vertical config	0.34/0.56/0.47	13/16/15	34/43/39	43/53/49
	EROW/MAX/EROW	EROW/MAX/EROW	EROW/MAX/EROW	EROW/MAX/EROW

(C)(2)(b) Discussion of Design Alternatives:

No alternative designs for the new 138 kV transmission line were considered for purposes of EMF. The new transmission line structures will be offset a minimum of approximately eight feet from the residences located to the west of the Duke Energy property.

(C)(3) Estimated Cost

The estimated cost for the proposed 138 kV electric transmission project is approximately \$325,000.

4906-11-01 (D) SOCIOECONOMIC DATA

(D)(1) Land Use and Population Density

The project is located in Symmes Township in Hamilton County, Ohio approximately 17 miles northeast of Cincinnati. Symmes Township, which covers 8.6 square miles, had a population of 14,683 people based on 2010 census data. The land use immediately surrounding the 6.5-acre project site is predominantly retail and commercial businesses, although apartment buildings are located west of the site and divided by trees that serve as an aesthetic screen. The Union Cemetery is located on the opposite side of Montgomery Road from the project site.

(D)(2) Agricultural District Land

The land on which the project will be constructed is not an Agricultural District land as defined by Chapter 929 of the Ohio Revised Code.

(D)(3) Archaeological and Cultural Resources

The Ohio Historic Preservation Office's (OHPO) online mapping system was consulted to determine the presence of previously recorded cultural resources within a 0.5 mile buffer of the Project. The desktop review indicates that there are four known archaeological sites, six historic architectural resources, and one cemetery (associated with one of the architectural resources) is located within the 0.5-mile study radius. No online information is available regarding their National Register of

Historic Places eligibility. Only two resources are located in the vicinity of the Project. One archaeological site (33HA716) and one historic architectural resource (HAM0555851) are likely associated with each other and appear to be situated adjacent to the southwest corner of the proposed Project centerline. However, the house at HAM0555851 no longer exists. Two other architectural resources (HAM0334051 and HAM0334351) also appear to have been removed. One archaeological survey for the Ohio Department of Transportation (NADB# 13823) was conducted along State Route 22 within the study radius and also intersects the Project area. A field reconnaissance revealed the potential for identifying new resources is low to moderate across the Project due to steep slopes and prior disturbances. The Project is therefore considered unlikely to have an adverse effect on cultural resources.

(D)(4) Notification of Officials and Public Information Program

Copies of this Letter of Notification have been sent to the offices of the Hamilton County Commissioners, the Symmes Township Trustees, and the Hamilton County Planning and Development Director. Copies of the letters to these officials are provided in Appendix B.

A copy of this Letter of Notification has been provided to the Symmes Township Branch of the Cincinnati Public Library located at 11850 Enyart Rd., Loveland, Ohio 45140. A newspaper notice will be provided in the Cincinnati Enquirer within 7 days of filing this application.

(D)(5) Current and Pending Litigation

There is no current or pending litigation involving the proposed transmission line project.

(D)(6) Other Local, State, and Federal Agency Permits and Requirements

A Notice of Intent will be filed with the Ohio Environmental Protection Agency (EPA) for authorization of construction stormwater discharge under General Permit OHC000003. No other permits or authorizations are required for the project.

4906-11-01 (E) ENVIRONMENTAL DATA

The Project area was investigated by Terracon Consultants, Inc. for the presence of wetlands and water bodies in 2014. No wetlands were observed on the 6.5-acre property that includes the planned transmission line corridors. Two streams were identified, S-1 (perennial) having a length of 800 feet and S-2 (perennial) having a length of 20 feet. Both streams have been modified through the placement of concrete slabs (broken), cobblestones and other discarded materials. The S-1

stream is culverted beneath Montgomery Road. A Wetland Delineation Report is included as Appendix C of this LON.

(E)(1) Federal and State Designated Species

The ODNR and the U.S. Fish and Wildlife Service (USFWS) were consulted regarding the potential for the occurrence of rare, threatened, and endangered species within the study area. In a letter response dated August 25, 2014 the ODNR reported no verified records of federally listed endangered, threatened, or candidate species, or their habitats existing within the project site or vicinity. The correspondence with the agencies is included as Attachment 2 of the Wetland Delineation Report (Appendix C of this LON).

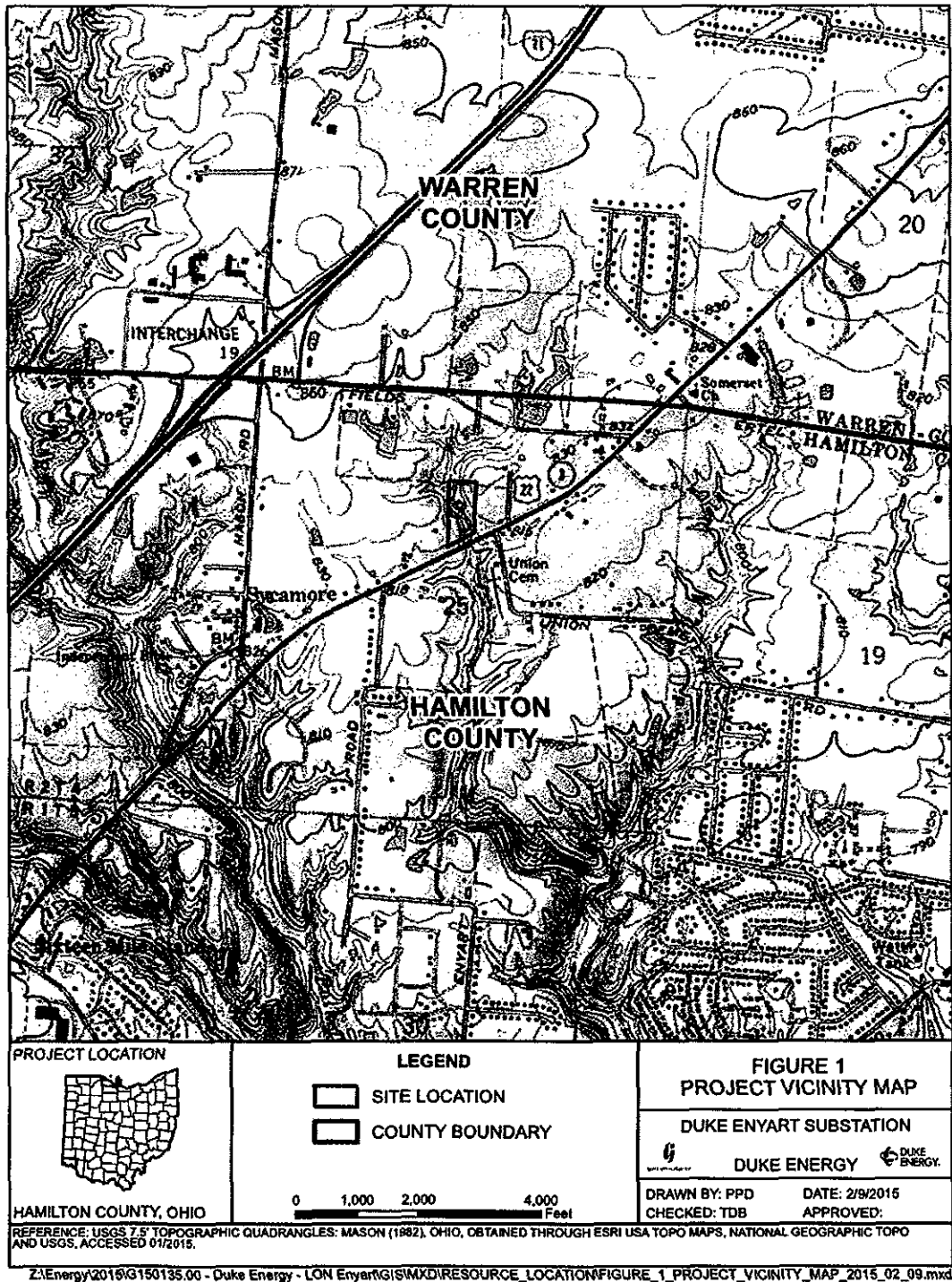
(E)(2) Areas of Ecological Concern

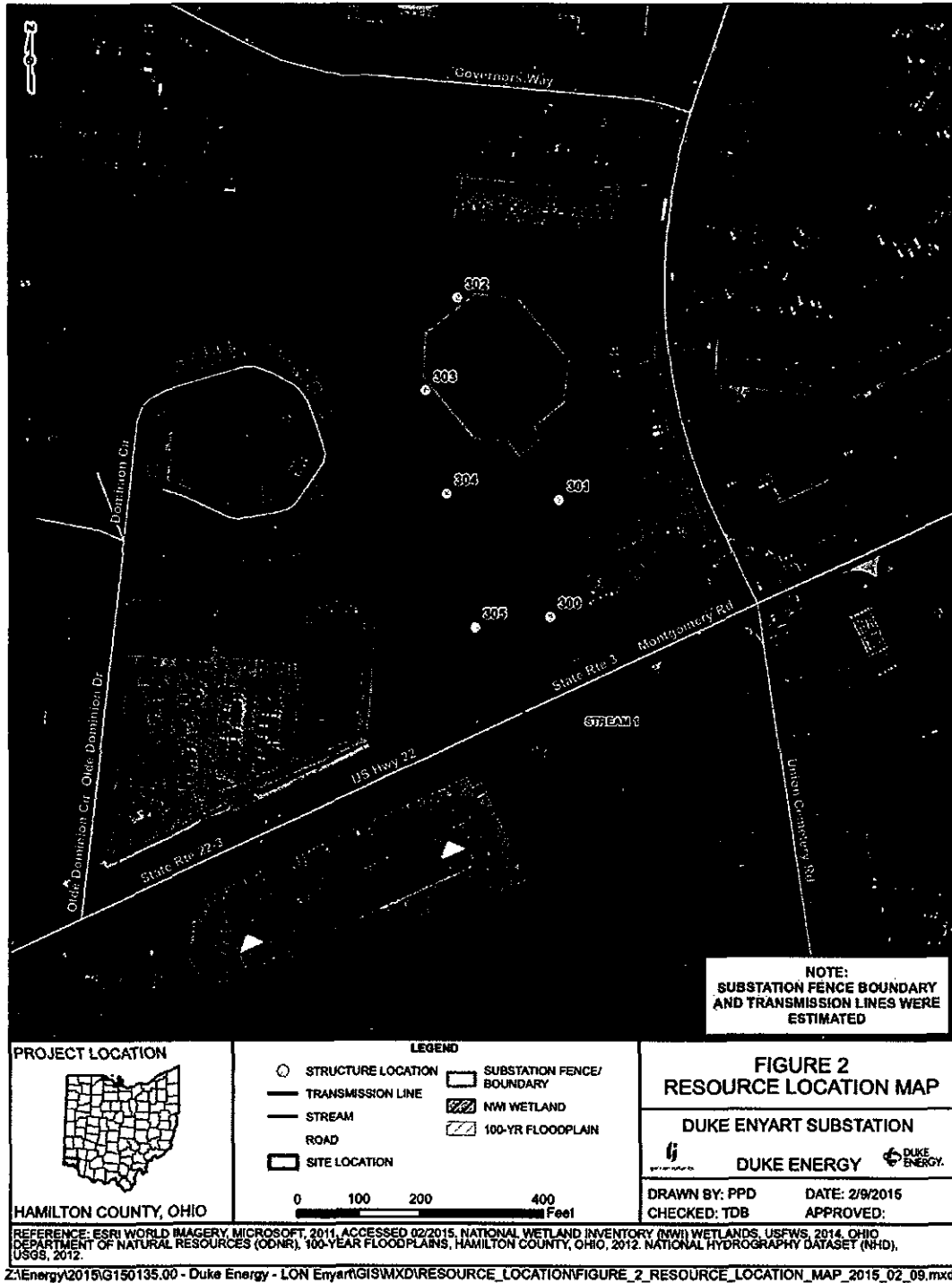
The onsite investigation of the Project area indicated no ecologically-sensitive areas of concern. Trees were cut and removed from the property in December 2014 as part of the Enyart Substation site development work in preparation for construction. This tree cutting occurred during the time period (October 1 to March 31) recommended by the USFWS to avoid adverse impacts to the federally endangered Indiana bat (in the event summer roost trees were present

(E)(3) Unusual Conditions Resulting in Significant Environmental, Social, Health, or Safety Impacts

There are no known unusual conditions or circumstances associated with this project that will result in significant environmental, social, health or safety impacts.

FIGURES 1 AND 2

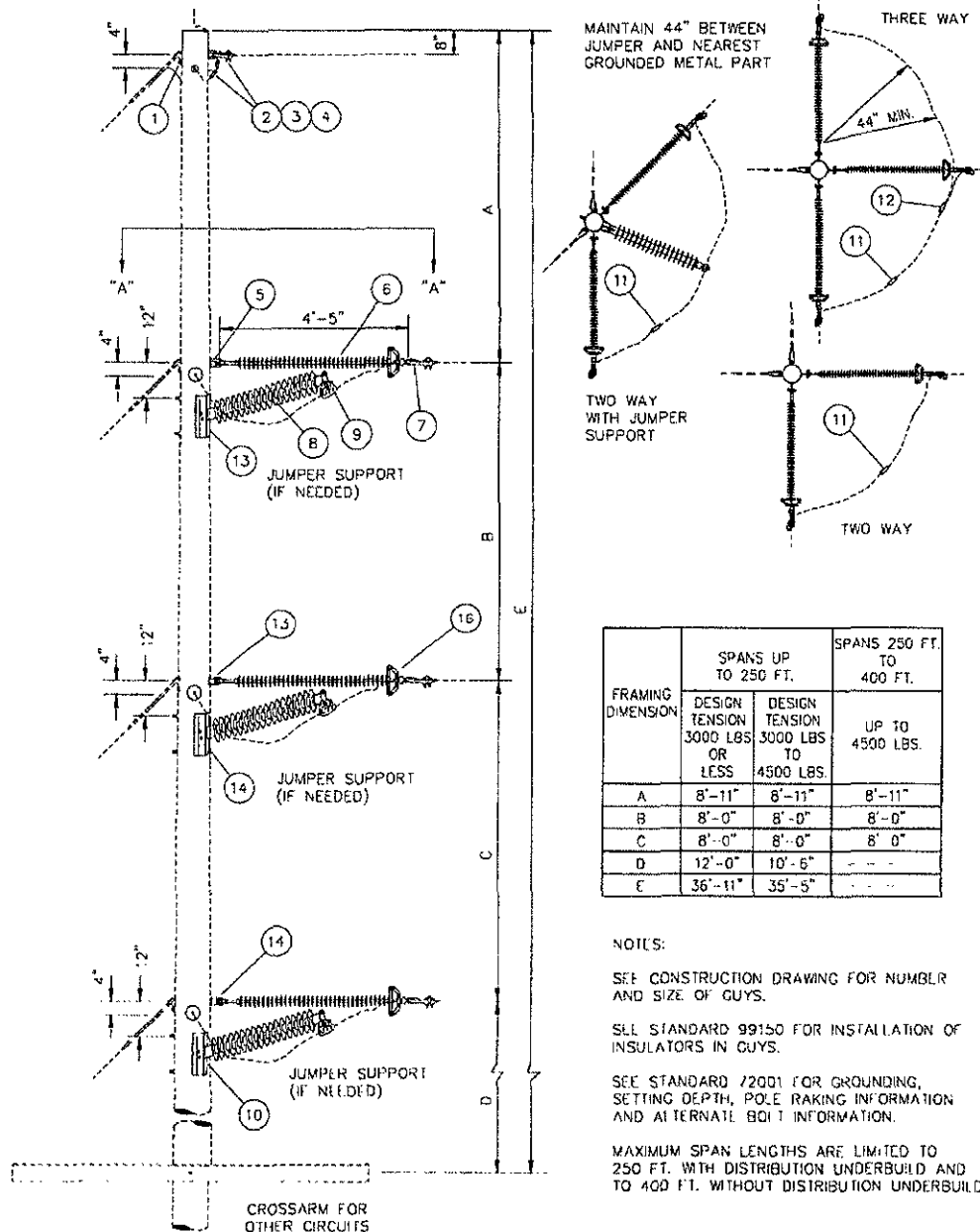




NOTE: USE ACTUAL PDF FILES WHEN CREATING FINAL LON

APPENDIX A

TRANSMISSION STRUCTURE DIAGRAM



APPENDIX B

LETTER TO OFFICIALS

*Duke Energy Ohio, Inc.
139 East Fourth Street
Cincinnati, Ohio 45201*

February 23, 2015

Mr. Kenneth N. Bryant, Trustee
Symmes Township Board of Trustees
Administrative Offices
9323 Union Cemetery Road
Symmes Township, OH 45140

**Letter of Notification
138 kV Transmission Line Tap to Enyart Substation**

Dear Mr. Bryant:

Please find enclosed a copy of a Letter of Notification that Duke Energy Ohio, Inc. has submitted to the Ohio Power Siting Board regarding the planned construction of a 0.22-mile electric transmission line. The Letter of Notification submittal is required in accordance with Chapter 4906 of the Ohio Administrative Code. The location of the Project area is situated on property owned by Duke Energy as illustrated on the enclosed map figures. The project will involve a span across Montgomery Road south of the intersection of Union Cemetery Road.

In accordance with Ohio Administrative Code (OAC) 4906-1-01 Appendix A, we are required to prepare this Letter of Notification for the Ohio Power Siting Board and in compliance with OAC 4906-11-01(D)(4), we are hereby providing you with a copy.

Please feel free to contact all me at (317) 838-2428 if you have any questions concerning this project.

Cordially,
Duke Energy Ohio, Inc.

Glenn M. Hauser, PMP
Lead Transmission Siting Lead

Enclosure

*Duke Energy Ohio, Inc.
139 East Fourth Street
Cincinnati, Ohio 45201*

February 23, 2015

Ms. Carol A. Sims, Trustee
Symmes Township Board of Trustees
Administrative Offices
9323 Union Cemetery Road
Symmes Township, OH 45140

**Letter of Notification
138 kV Transmission Line Tap to Enyart Substation**

Dear Ms. Sims:

Please find enclosed a copy of a Letter of Notification that Duke Energy Ohio, Inc. has submitted to the Ohio Power Siting Board regarding the planned construction of a 0.22-mile electric transmission line. The Letter of Notification submittal is required in accordance with Chapter 4906 of the Ohio Administrative Code. The location of the Project area is situated on property owned by Duke Energy as illustrated on the enclosed map figures. The project will involve a span across Montgomery Road south of the intersection of Union Cemetery Road.

In accordance with Ohio Administrative Code (OAC) 4906-1-01 Appendix A, we are required to prepare this Letter of Notification for the Ohio Power Siting Board and in compliance with OAC 4906-11-01(D)(4), we are hereby providing you with a copy.

Please feel free to contact all me at (317) 838-2428 if you have any questions concerning this project.

Cordially,
Duke Energy Ohio, Inc.

Glenn M. Hauser, PMP
Lead Transmission Siting Lead

Enclosure
*Duke Energy Ohio, Inc.
139 East Fourth Street
Cincinnati, Ohio 45201*

February 23, 2015

Ms. Jodie Leis, Trustee
Symmes Township Board of Trustees
Administrative Offices
9323 Union Cemetery Road
Symmes Township, OH 45140

**Letter of Notification
138 kV Transmission Line Tap to Enyart Substation**

Dear Ms. Leis:

Please find enclosed a copy of a Letter of Notification that Duke Energy Ohio, Inc. has submitted to the Ohio Power Siting Board regarding the planned construction of a 0.22-mile electric transmission line. The Letter of Notification submittal is required in accordance with Chapter 4906 of the Ohio Administrative Code. The location of the Project area is situated on property owned by Duke Energy as illustrated on the enclosed map figures. The project will involve a span across Montgomery Road south of the intersection of Union Cemetery Road.

In accordance with Ohio Administrative Code (OAC) 4906-1-01 Appendix A, we are required to prepare this Letter of Notification for the Ohio Power Siting Board and in compliance with OAC 4906-11-01(D)(4), we are hereby providing you with a copy.

Please feel free to contact all me at (317) 838-2428 if you have any questions concerning this project.

Cordially,
Duke Energy Ohio, Inc.

Glenn M. Hauser, PMP
Lead Transmission Siting Lead

Enclosure

*Duke Energy Ohio, Inc.
139 East Fourth Street
Cincinnati, Ohio 45201*

February 23, 2015

Mr. Philip J. Beck, Trustee
Symmes Township Board of Trustees
Administrative Offices
9323 Union Cemetery Road
Symmes Township, OH 45140

**Letter of Notification
138 kV Transmission Line Tap to Enyart Substation**

Dear Mr. Beck:

Please find enclosed a copy of a Letter of Notification that Duke Energy Ohio, Inc. has submitted to the Ohio Power Siting Board regarding the planned construction of a 0.22-mile electric transmission line. The Letter of Notification submittal is required in accordance with Chapter 4906 of the Ohio Administrative Code. The location of the Project area is situated on property owned by Duke Energy as illustrated on the enclosed map figures. The project will involve a span across Montgomery Road south of the intersection of Union Cemetery Road.

In accordance with Ohio Administrative Code (OAC) 4906-1-01 Appendix A, we are required to prepare this Letter of Notification for the Ohio Power Siting Board and in compliance with OAC 4906-11-01(D)(4), we are hereby providing you with a copy.

Please feel free to contact all me at (317) 838-2428 if you have any questions concerning this project.

Cordially,
Duke Energy Ohio, Inc.

Glenn M. Hauser, PMP
Lead Transmission Siting Lead

Enclosure

*Duke Energy Corporation
139 East Fourth Street
Cincinnati, Ohio 45201*

February 23, 2015

Mr. Greg Hartmann
Mr. Chris Monzel
Mr. Todd Portune
c/o Hamilton County Commissioners
Court Street, Rm 603
Cincinnati, Ohio 45202

**Letter of Notification
138 kV Transmission Line Tap to Enyart Substation**

Dear Commissioners:

Please find enclosed a copy of a Letter of Notification that Duke Energy Ohio, Inc. has submitted to the Ohio Power Siting Board regarding the planned construction of a 0.22-mile electric transmission line. The Letter of Notification submittal is required in accordance with Chapter 4906 of the Ohio Administrative Code. The location of the Project area is situated on property owned by Duke Energy as illustrated on the enclosed map figures. The project will involve a span across Montgomery Road south of the intersection of Union Cemetery Road.

In accordance with Ohio Administrative Code (OAC) 4906-1-01 Appendix A, we are required to prepare this Letter of Notification for the Ohio Power Siting Board and in compliance with OAC 4906-11-01(D)(4), we are hereby providing you with a copy.

Please feel free to contact all me at (317) 838-2428 if you have any questions concerning this project.

Cordially,
Duke Energy Ohio, Inc.

Glenn M. Hauser, PMP
Lead Transmission Siting Lead

Enclosure

*Duke Energy Corporation
139 East Fourth Street
Cincinnati, Ohio 45201*

February 23, 2015

Mr. Todd Kinskey
Director, Planning and Development
Hamilton County Board of County Commissioners
138 East Court Street
Cincinnati, Ohio 45202

**Letter of Notification
138 kV Transmission Line Tap to Enyart Substation**

Dear Mr. Kinskey:

Please find enclosed a copy of a Letter of Notification that Duke Energy Ohio, Inc. has submitted to the Ohio Power Siting Board regarding the planned construction of a 0.22-mile electric transmission line. The Letter of Notification submittal is required in accordance with Chapter 4906 of the Ohio Administrative Code. The location of the Project area is situated on property owned by Duke Energy as illustrated on the enclosed map figures. The project will involve a span across Montgomery Road south of the intersection of Union Cemetery Road.

In accordance with Ohio Administrative Code (OAC) 4906-1-01 Appendix A, we are required to prepare this Letter of Notification for the Ohio Power Siting Board and in compliance with OAC 4906-11-01(D)(4), we are hereby providing you with a copy.

Please feel free to contact all me at (317) 838-2428 if you have any questions concerning this project.

Cordially,
Duke Energy Ohio, Inc.

Glenn M. Hauser, PMP
Lead Transmission Siting Lead

Enclosure

APPENDIX C

WETLAND DELINEATION REPORT AND AGENCY

CORRESPONDENCE

Wetland Delineation Report

Enyart Substation

Montgomery Road

Cincinnati, Hamilton County, Ohio

Date:

August 5, 2014

Terracon Project No. N1147119

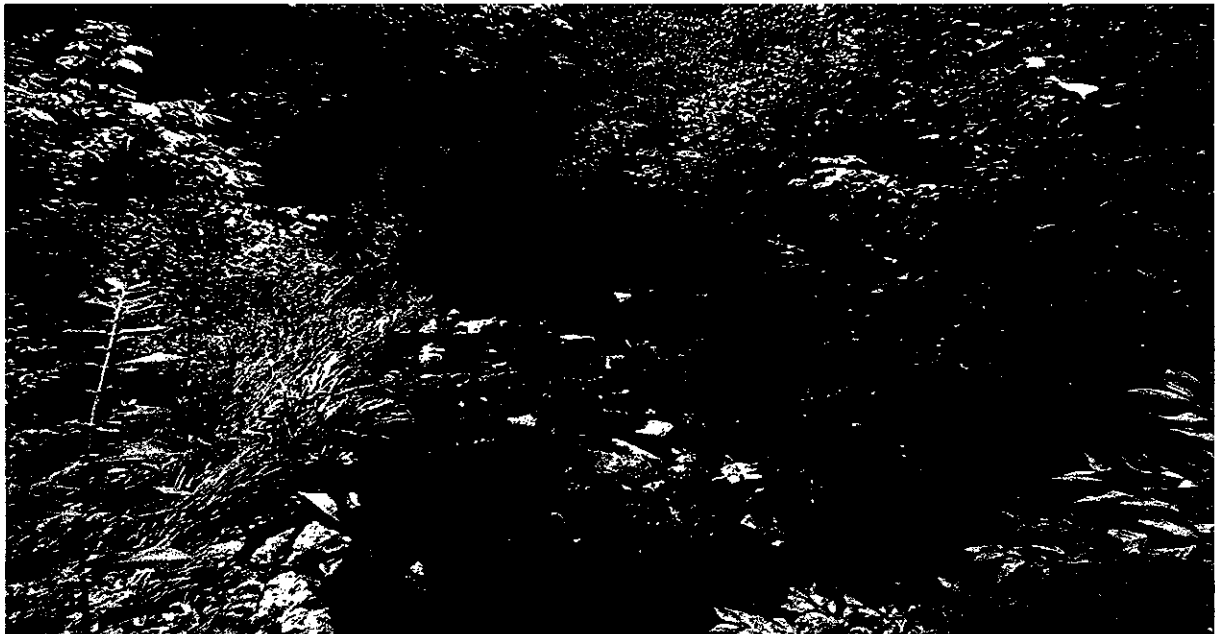
Prepared for:

Duke Energy

Prepared by:

Terracon Consultants, Inc.

Cincinnati, OH



Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

Terracon

Geotechnical

Environmental

Construction Materials

Facilities

August 5, 2014



US Army Corps of Engineers – Huntington District
ATTN: Regulatory Branch
502 Eighth Street
Huntington, WV 25701-2070

Re: Wetland Delineation Report
Enyart Substation
Montgomery Road
Cincinnati, Hamilton County, OH
Terracon Project Number: N1147119

Regulatory Branch:

Terracon is pleased to submit the Wetland Delineation Report prepared for Duke Energy for the abovementioned project. This assessment describes the observations made during our site visit and other sources of information used to observe the site for wetlands and other waterbodies. Based on the results of the assessment, no wetlands and two streams were observed on the site. At this time, we are requesting that your office perform a Jurisdictional Determination for the project and advise our client if a permit will be required for any proposed impacts.

If you have any questions concerning this report, please contact Scott West at (513) 612-9094 or by e-mail at swest@terracon.com.

Sincerely,
TERRACON Consultants, Inc.

A handwritten signature in black ink, appearing to read "Scott E. West".

Scott E. West
Project Manager II

A handwritten signature in black ink, appearing to read "Michael Perkins".

Michael Perkins
Field Env. Scientist

Copy to: Mr. Chad Miller
Duke Energy
Transmission Engineering
1000 East Main Street
Plainfield, IN 46168

Wetland Delineation Report

Enyart Substation Site ■ Cincinnati, OH

August 5, 2014 ■ Terracon Project: N1147119



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APPENDIX A – EXHIBITS

Exhibit 1 – Topographic Site Map

Exhibit 2 – National Wetland Inventory Map

Exhibit 3 – Soil Survey Map

Exhibit 4 – Wetland/ Stream Delineation Map

APPENDIX B – AERIAL IMAGE

APPENDIX C – GROUND PHOTOGRAPHS

**Wetland Delineation Report
Enyart Substation Site
Cincinnati, OH
Terracon Project No. N1147119
August 5, 2014**

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) was retained by Duke Energy (client) to perform a wetland delineation to determine if potential waters of the U.S. (WUS) are present at the Enyart Substation site, hereafter referred to as the project site. The project site is located on the north side of Montgomery Road and consists of a successional forest growing in a former residential lot in Cincinnati, Ohio. The site location is depicted on Exhibit 1 in Appendix A.

The project site is an approximate 6.5 acre tract of land consisting of a mostly wooded area that was formerly a residential site. The site slopes towards the stream that flows from northwest to the southeast portion of the site.

The purpose of performing this wetland delineation of the project site was to characterize the existing site conditions, observe the site for suspect waterbodies and wetlands and provide a recommendation regarding whether or not suspect waterbodies (if observed) would be considered jurisdictional.

It is important to note that the findings presented in this report represent Terracon's professional opinion, based upon field observations made during the site visit and our experience with current regulatory guidance under the Clean Water Act. In order to verify the delineation boundaries and jurisdictional classifications presented in this report, the U.S. Army Corps of Engineers (USACE) must review this report and make a jurisdictional determination.

2.0 SCOPE OF SERVICES

Terracon performed the following scope of work:

- Reviewed topographical, National Wetland Inventory, soil survey maps and aerial photograph resources to assist with identifying suspect Waters of the United States (WUS) and wetland areas at the subject site.
- Mobilized to the site to conduct the preliminary site visit.

Wetland Delineation Report

Enyart Substation Site ■ Cincinnati, OH

August 5, 2014 ■ Terracon Project No.: N1147119



- Prepared a map showing approximate locations of suspect waterbodies or wetland areas observed during the site visit, if any.
- Completed a Wetland Delineation Report that included site characterization information, a discussion of applicable data, and recommendations for the site.

3.0 PRELIMINARY DATA GATHERING AND ANALYSIS

Prior to performing the delineation, several map and aerial photograph resources were reviewed to assist with identifying WUS and wetland areas at the project site. Each source of data is described in detail below.

3.1 Topographic Map

The United States Department of the Interior Geologic Survey (USGS) 7.5-Minute Topographic Map of the subject site was reviewed to identify drainages or WUS within the project area. A portion of the Mason, OH Quadrangle can be seen as Exhibit 1 in Appendix A. The USGS map does not show any water features within the site boundaries.

3.2 National Wetland Inventory Map

The National Wetland Inventory (NWI) Map of the subject site was reviewed to identify potential wetland areas. The map for the subject site was published by the U.S. Department of the Interior's Fish and Wildlife Service and depicts probable wetland areas based on stereoscopic analysis of high altitude aerial photographs. The review of the NWI map showed no marked wetland or water body areas within the boundaries of the project site. The NWI map data for the project site can be seen as Exhibit 2 in Appendix A.

3.3 Soil Survey

Data from the soil survey of Hamilton County, Ohio was reviewed to identify soil types, including hydric soils. Data for the soil survey was compiled by the U.S. Department of Agriculture Natural Resource Conservation Service (NRCS) in 2010. The soil survey map shows a blue line stream going through the site. A copy of the soil survey map is included as Exhibit 3 in Appendix A.

The following soil types were identified within the project site on the soil survey map:

- Bonnell silt loams 15 to 25 percent slopes (BoD): This soil is dark brown to grayish brown in color, well-drained and deeply sloped. This map unit is classified as non-hydric.

Wetland Delineation Report

Enyart Substation Site ■ Cincinnati, OH

August 5, 2014 ■ Terracon Project No.: N1147119



- Urban land–Udorthents complex, 0 to 12 percent slope (UrUXC): This soil is moderately well drained to excessively drained and is typically heavily modified for a variety of land uses. This map unit is classified as non-hydric.

Hydric soils information was gathered from the 'National Hydric Soils List' (USDA Natural Resource Conservation Service).

3.4 Aerial Photographs

A recent aerial photograph of the project site was reviewed to determine land use and evaluate vegetative cover. The aerial photograph of the project site shows the site to be mostly covered with trees and an access road from Montgomery Road, the southern border of the site. The aerial coverage of the site is similar as it appeared at the time of the site reconnaissance. For reference, the aerial photograph has been included as Appendix B.

4.0 FIELD TECHNIQUES

Terracon personnel Scott West and Michael Perkins conducted a reconnaissance of the project site on July 16, 2014 to characterize the existing site conditions and observe for the presence of wetlands and potential jurisdictional waters. Characteristics of jurisdictional waters and wetland areas were assessed utilizing the criteria detailed in sections 4.1 and 4.2 of this report. The evaluation methods generally followed the routine on-site determination method referenced in the 1987 USACE Manual and 2010 Midwest Supplement.

4.1 Wetland Observations

Wetlands generally have three essential characteristics: hydrophytic (wetland) vegetation, hydric soils, and wetland hydrology. During the site assessment, Terracon personnel walked the project site and observed no wetland areas and two stream channels. Based on NWI data, aerial imagery and topographical data, on-site areas were investigated for potential wetland properties. Additional areas were investigated, based on observations made during site reconnaissance. Data regarding the three essential characteristics was gathered within observed suspect wetland areas to further delineate boundaries.

4.1.1. Plant Community Assessment

Suspect areas were visually observed to determine the species, when possible, and absolute percentage of ground cover for four stratum of plant community types. Herbs were generally observed within a five-foot radius, shrubs/saplings within a fifteen-foot radius, and trees and vines within a thirty-foot radius of the observation location.

Wetland Delineation Report

Enyart Substation Site ■ Cincinnati, OH

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For each species of vegetation observed, their wetland indicator status was evaluated. Indicator status was determined using the NRCS Plants Database. Indicator categories for vegetation are presented below:

- * **Obligate Wetland (OBL)** - occur almost always (estimated probability greater than 99%) under natural conditions in wetlands.
- * **Facultative Wetland (FACW)** - usually occur in wetlands (estimated probability 67% - 99%) but occasionally found in non-wetlands.
- * **Facultative (FAC)** - equally likely to occur in wetlands or non-wetlands (estimated probability 34% - 66%).
- * **Facultative Upland (FACU)** - usually occur in non-wetlands (estimated probability 67% - 99%) but occasionally found in wetlands.
- * **Obligate Upland (UPL)** – rarely occur in wetlands, but occur almost always (estimated probability greater than 99%) under natural conditions in non-wetlands.

The percent cover of each stratum was determined and dominance was evaluated. Dominant species were the most abundant species that accounted for more than 20 percent of the absolute percent coverage of the stratum. The number of dominant species with an indicator status of OBL, FACW, and/or FAC was compared to the total number of dominant species across all strata. Typically, when more than 50 percent of the dominant species had an indicator status of OBL, FACW, and/or FAC, hydrophytic vegetation was present.

If the percentage of dominant species with an indicator status of OBL, FACW, and/or FAC was less than 50 percent, prevalence index and morphological adaptations may have been evaluated to confirm if hydrophytic vegetation was present or absent.

4.1.2. Hydric Soils Assessment

After Terracon evaluated wetland vegetation, subsurface soil samples were collected using a soil probe. The samples were collected to a depth of approximately 15 inches below ground surface and were visually compared to Munsell Soil Color Charts (Munsell, 2009), which aided in the evaluation of hydric soil characteristics. The soil samples were further examined for hydric soil indicators including, but not limited to, histosol, thick dark surface, sandy gleyed matrix, sandy redox, loamy gleyed matrix, redox dark surface, and/or redox depressions. If these or other hydric soil indicators were observed in the subsurface soil sample, the observation location was considered to have hydric soil.

Wetland Delineation Report

Enyart Substation Site ■ Cincinnati, OH

August 5, 2014 ■ Terracon Project No.: N1147119



4.1.3 Wetland Hydrology Assessment

Visual indicators of wetland hydrology were evaluated. Examples of primary wetland hydrology indicators include, but are not limited to, surface water, high water table, soil saturation, water marks, sediment deposits, drift deposits, iron deposits, inundation visible on aerial imagery, sparsely vegetated concave surface, and water-stained leaves. If at least one primary or two secondary indicators were observed, the observation location was considered to have wetland hydrology.

4.1.4 Classification of Wetlands

Upon completion of the review of the three wetland criteria at each area, a wetland determination was made. Under normal circumstances, if one or more of the wetland criteria were not identified, the area was not considered to be a wetland. If all three wetland indicators were identified, the area was classified as wetland. Additional observations were made throughout the wetland area to define the wetland/non-wetland boundary. Vegetation, soil and hydrology assessment data from at least one location within the wetland and one upland location outside of the wetland were recorded on a USACE Wetland Determination Form. The recorded data forms for the subject site can be found in Appendix C.

4.2 WUS Observations

Terracon also made observations of site features that may be considered a jurisdictional waterbody. If a potential jurisdictional waterbody was identified, observations regarding its characteristics were recorded. Potential jurisdictional waterbodies were evaluated based on the observation of the following characteristics:

- Flow Characteristics:
 - Perennial: contains water at all times except during extreme drought.
 - Intermittent: carries water a considerable portion of the time, but ceases to flow occasionally or seasonally.
 - Ephemeral: carries water only during and immediately after periods of rainfall or snowmelt.
- Ordinary High Water Mark: The limit line on the shore established by the fluctuation of the water surface. It is shown by such things as a clear line impressed on the bank, shelving, changes in soil character, destruction of terrestrial vegetation, the presence of litter and debris or other features influenced by the surrounding area.
- Bank Shape Descriptions:
 - Undercut: banks that overhang the stream channel
 - Steep: bank slope of approximately greater than 30 degrees
 - Gradual: bank slope of approximately 30 degrees or less

• Aquatic Habitat Descriptions:

- Pool: deeper portion of a stream where water flows slower than in neighboring, shallower portions, smooth surface, and finer substrate
- Riffle: shallow area in a stream where water flows swiftly over gravel and rock or other coarse substrate resulting in a rough flow and a turbulent surface
- Run: section of a stream with a low or high velocity and with little or no turbulence on the surface of the water.

5.0 FIELD OBSERVATIONS RESULTS

On July 16, 2014 Terracon performed field observations and identified no wetland areas and two stream channels within the project boundaries. Locations of these onsite features are illustrated on Exhibit 4 in Appendix A. Ground photographs, included in Appendix C, provide an indication of the physical characteristics observed during the site visit. The majority of the project site is sloped towards the stream that runs across the parcel to the south and east towards Montgomery Road. Descriptions of the observed areas are listed in the following sections.

5.1 Wetlands

No wetlands were observed at the project site.

5.2 Streams

Two streams were identified within the limits of the project boundaries

- S-1: 800 linear feet. This stream appears to be mainly fed by a culvert on the north end of the parcel as well as precipitation runoff from the residential and commercial properties surrounding the site. The stream goes off site for approximately 120 feet before reentering the site. The stream, then, exits the site to the south into a culvert that goes under Montgomery Road. The stream bank-full width averaged approximately 12 feet. The channel was heavily modified by the presence of broken concrete slabs, cobblestones used for bank stabilization, large pieces of other discarded materials, and trash. It appears the stream is perennial (RPW) in flow.
- S-2: 20 linear feet. The second stream identified on the site enters the site from the southwest, from a culvert that runs under Montgomery Road. It appears that the stream is fed by precipitation runoff from the south side of Montgomery Road. The stream runs 20 feet before connecting to the main channel (S-1), which exits the site just past the confluence of S-1 and S-2. The stream bank-full width averaged approximately 6 feet. Similar to S-1, the channel of S-2 contained broken concrete slabs and trash. It appears that this stream is perennial (RPW) in flow.

5.3 Other Waters

No ponds or lakes were observed within the limits of the project site.

6.0 SUMMARY AND CONCLUSIONS OF FIELD OBSERVATIONS

A wetland delineation of an approximately 6.5 acre site located in Cincinnati, Hamilton County, Ohio was conducted on July 16, 2014. A review of the site was conducted utilizing readily available information including, but not limited to, topographical, aerial and wetland data. In addition, a preliminary site visit was performed to characterize the existing site conditions and observe the site for suspect waterbodies and wetlands (if any). A summary of field observations and conclusions concerning jurisdictional status is outlined in the following sections.

6.1 Wetlands

As discussed in Section 4, Terracon personnel did not observe wetlands on the project site.

6.2 Streams

As discussed in section 5.2, two streams (S-1 and S-2) were observed within the limits of the project site. Stream 1 was measured to have 800 linear feet within the project boundaries. Stream 2 was measured to have 20 feet within the project boundary.

6.3 Other Waters

No other waters were observed within the limits of the project site.

7.0 RECOMMENDATIONS

According to our preliminary site visit observations, no wetlands and two stream channels were observed on the project site. It is the opinion of Terracon that the onsite waters are jurisdictional and regulated by the USACE, due to their apparent connection to navigable waters.

Based on conversations with the client, it is understood that efforts will be made to avoid impacts to the potential WUS within the project site. However, it may be determined that unavoidable impacts may be necessary in order to accommodate to project needs. If future development of the project site does impact the wetland or stream areas, it is Terracon's

Wetland Delineation Report

Enyart Substation Site ■ Cincinnati, OH

August 5, 2014 ■ Terracon Project No.: N1147119



opinion that these features would be considered under the jurisdiction of the USACE. However, for all onsite areas, only the USACE can make the final determination on the jurisdictional status of waterbodies, and on the need for permit processing and compensatory mitigation.

If impacts are proposed to the aforementioned waterbodies, the USACE should be consulted to determine if a Section 404 Permit will be required for the project. The USACE must make the final jurisdictional determination. Again, Terracon recommends a copy of this report be submitted to the USACE for their final determination of potential jurisdictional waters on the site and required USACE permitting and mitigation (if any) for potential impacts to these waters. The USACE can be reached at the following address:

US Army Corps of Engineers – Huntington District
ATTN: Regulatory Branch
502 Eighth Street
Huntington, WV 25701-2070

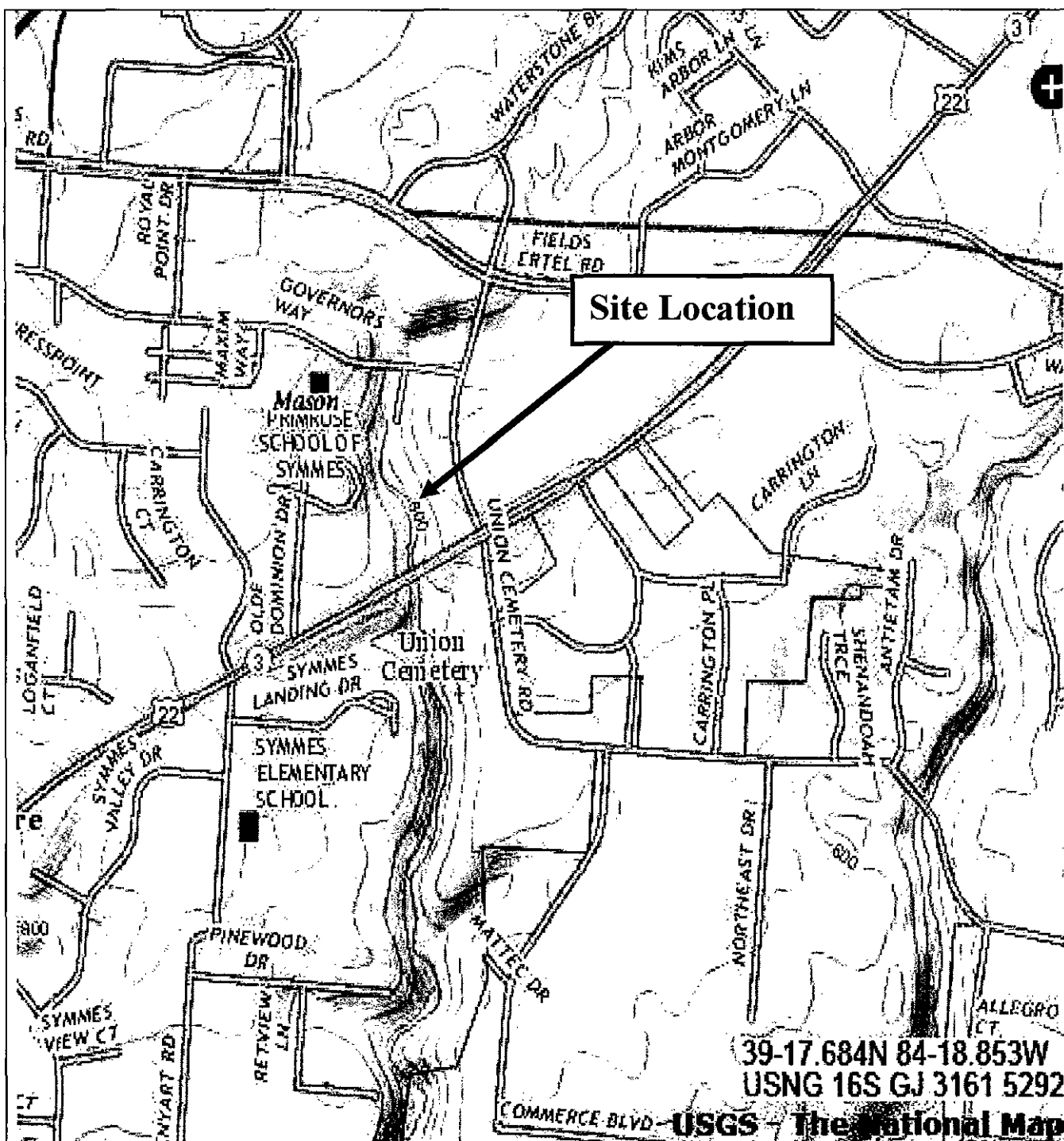
8.0 GENERAL COMMENTS

The preliminary WUS assessment was performed in accordance with generally accepted practices of this profession undertaken in similar studies at the same time and in the same geographical area. A preliminary WUS assessment, such as the one performed at this site, is of limited scope, is noninvasive, and cannot eliminate the potential that wetlands or waterbodies are present at the site beyond what is identified by the limited scope of this preliminary assessment. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. No biological assessment can wholly eliminate uncertainty regarding the potential for concerns in connection with a project. The limitations of this preliminary assessment should be recognized.

This report has been prepared in accordance with generally accepted scientific and engineering evaluation practices. This report is for the exclusive use of the client for the project being discussed. No warranties, either expressed or implied, are intended or made.

APPENDIX A

Exhibits



Terracon

Consulting Engineers & Scientists

Exhibit 1 Topographic Site Map

Enyart Substation Site
Cincinnati, Hamilton County, Ohio

↑
NORTH



U.S. Fish and Wildlife Service

National Wetlands Inventory

Proposed Enyart
Substation Site

Jul 14, 2014

Wetlands

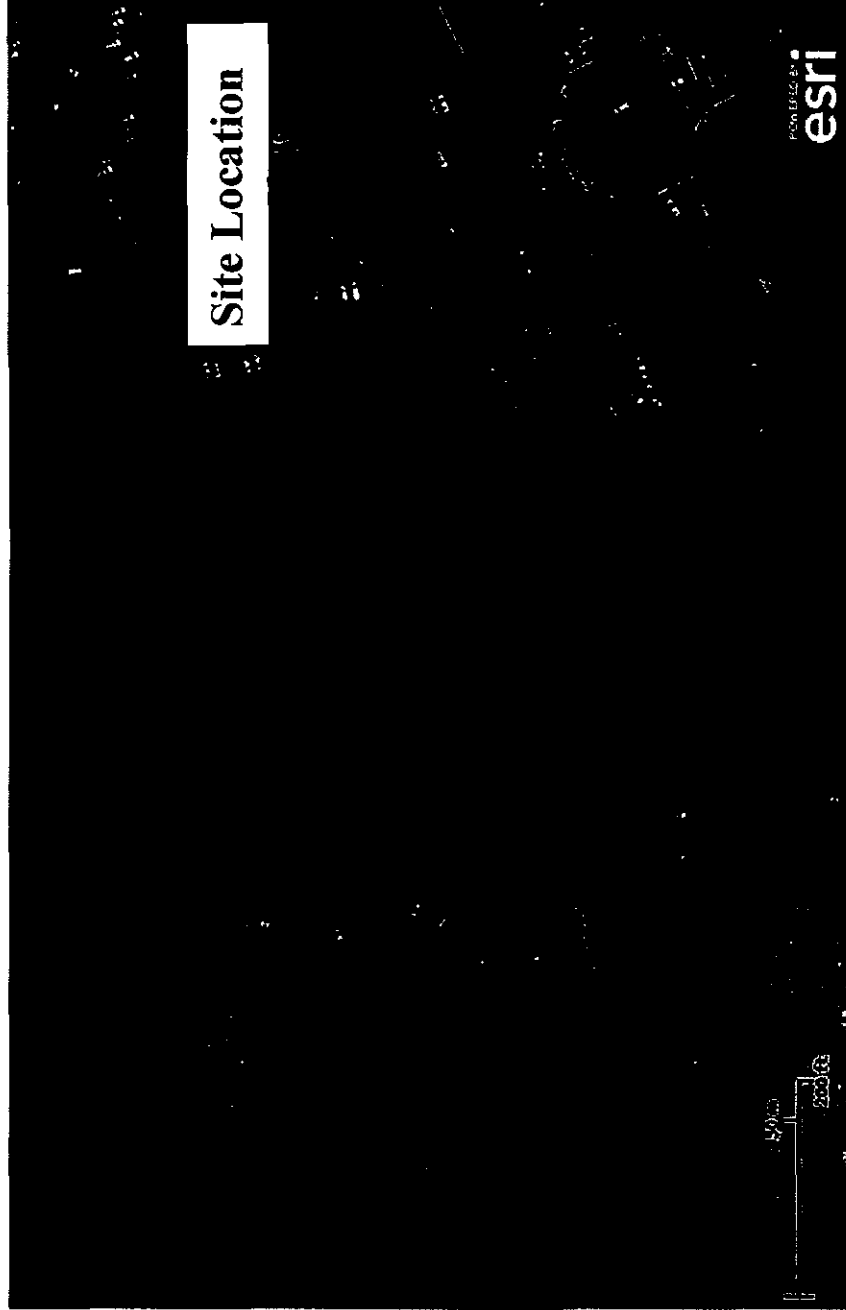
- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Riparian

- Herbaceous
- Forested/Shrub

Riparian Status

- Digital Data

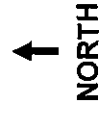


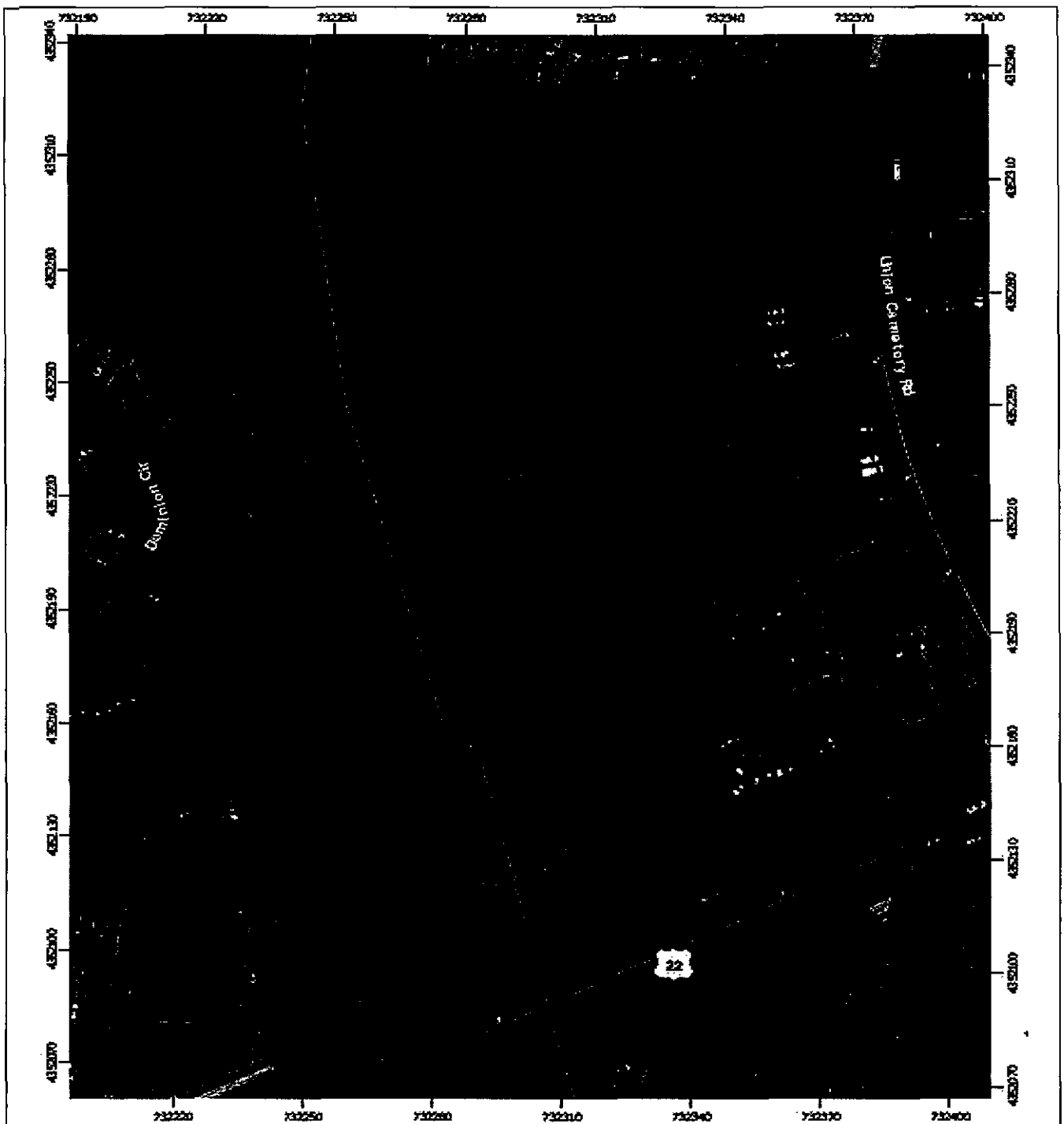
Terracon

Consulting Engineers & Scientists

Exhibit 2 National Wetlands Inventory Map

Enyart Substation Site
Cincinnati, Hamilton County, Ohio





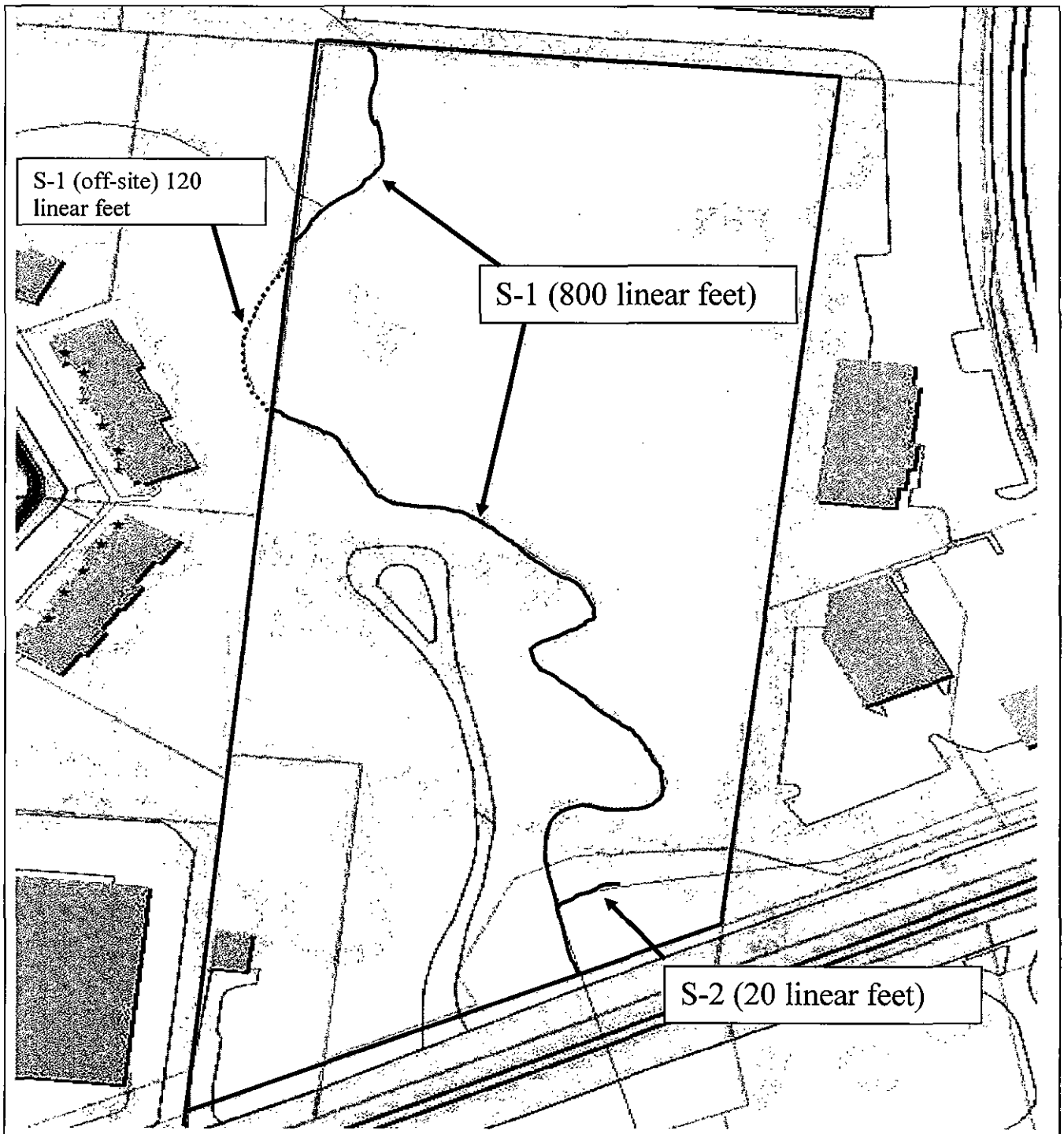
Terracon

Consulting Engineers & Scientists

Exhibit 3
Soil Survey Map

Enyart Substation Site
Cincinnati, Hamilton County, Ohio

↑
NORTH



Terracon
Consulting Engineers & Scientists

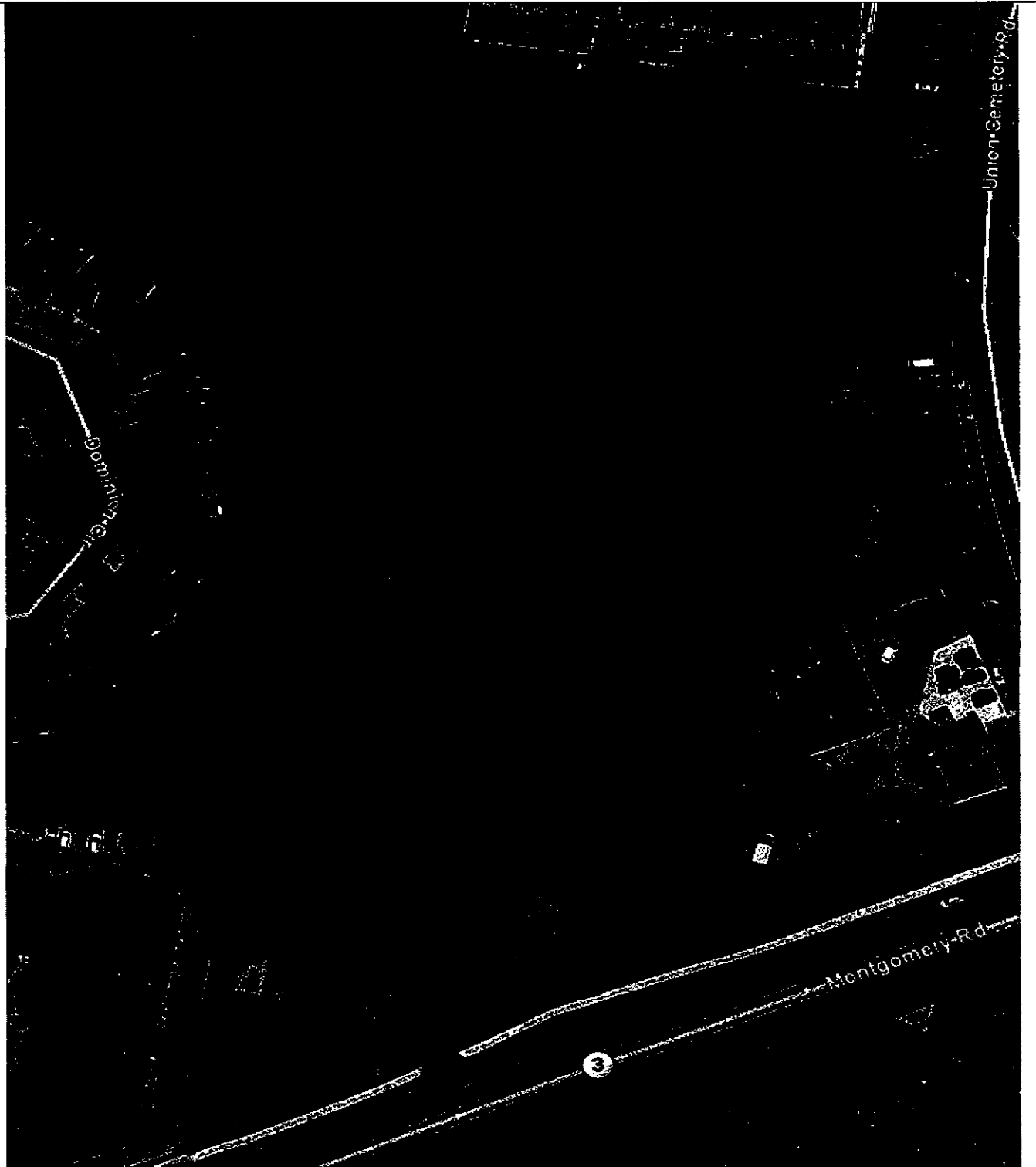
Exhibit 4
Wetland/Stream Delineation Map

Enyart Substation Site
Cincinnati, Hamilton County, Ohio

↑
NORTH

APPENDIX B

Aerial Photographs



Terracon

Consulting Engineers & Scientists

**Appendix B
Aerial Image**

Enyart Substation Site
Cincinnati, Hamilton County, Ohio
Source: Google Earth 2014

↑
NORTH

APPENDIX C

Ground Photographs

Photographic Documentation

Client: Duke Energy
Location: Enyart Substation Site

Project Number: N1147119
Photographer: S. West

Photograph No. 1

Date: July 16, 2014

Direction: North

Description:
View of the culvert that is the
origin of S-1 on the project site



Photograph No. 2

Date: July 16, 2014

Direction: South

Description:
View of channel modifications in
S-1



Photographic Documentation

Client: Duke Energy
Location: Enyart Substation Site

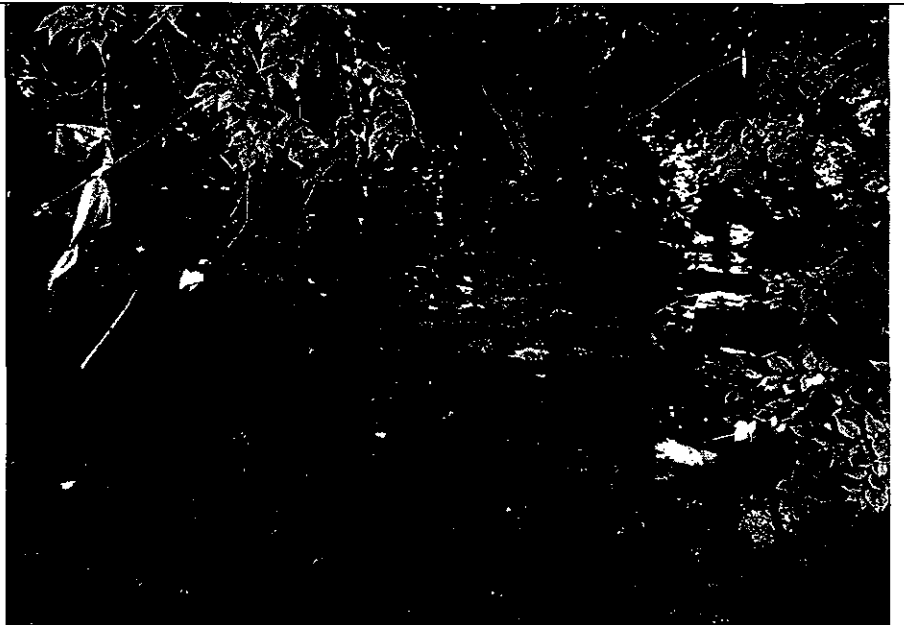
Project Number: N1147119
Photographer: S. West

Photograph No. 3

Date: July 16, 2014

Direction: West

Description:
View of channel modifications of
S-1.



Photograph No. 4

Date: July 16, 2014

Direction: South

Description:
View of typical large debris found
in S-1.



Photographic Documentation

Client: Duke Energy
Location: Enyart Substation Site

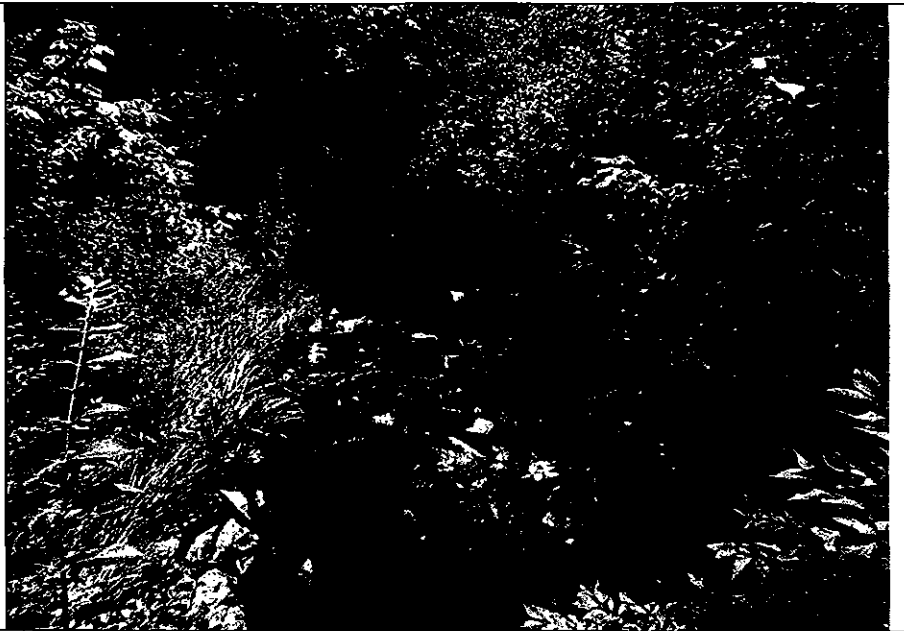
Project Number: N1147119
Photographer: S. West

Photograph No. 5

Date: July 16, 2014

Direction: North

Description:
View of S-1.

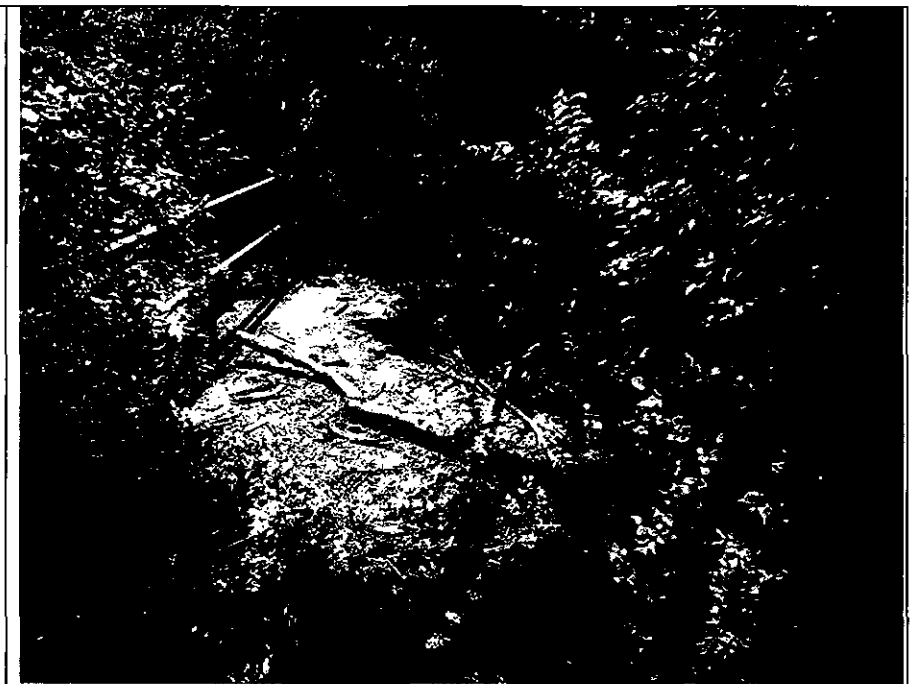


Photograph No. 6

Date: July 16, 2014

Direction: West

Description:
Existing bridge over S-1



Photographic Documentation

Client: Duke Energy
Location: Enyart Substation Site

Project Number: N1147119
Photographer: S. West

Photograph No. 7

Date: July 16, 2014

Direction: North

Description:

View of S-1 near the south end of the project site.



Photograph No. 8

Date: July 16, 2014

Direction: Southeast

Description:

View of S-2.



Photographic Documentation

Client: Duke Energy

Project Number: N1147119

Location: Enyart Substation Site

Photographer: S. West

Photograph No. 9

Date: July 16, 2014

Direction: South

Description:

View of culvert that is the terminus of S-1 on-site. S-2 is immediately out of the frame to the left.



Photograph No. 10

Date: July 16, 2014

Direction: West

Description:

View of S-2 (center) and the confluence with S-1. The culvert on the right drains under Montgomery Road.



Attachment 2

Agency Correspondence



August 20, 2014

Submitted via email

Ms. Debbie Woischke
Ohio Department of Natural Resources
Division of Natural Areas and Preserves
Ohio Natural Heritage Program
2045 Morse Road, Building F-1
Columbus, OH 43229

**Re: Natural Heritage Data Request
Enyart Substation
Montgomery Road
Cincinnati, Hamilton County, Ohio**

Dear Ms. Woischke:

Terracon Consultants, Inc. (Terracon) is requesting all pertinent file information for an approximately 6.5-acre site located in Cincinnati, Hamilton County, Ohio. The project involves potential fill activities in an on-site stream. Specifically, Terracon is interested in Natural Heritage database records regarding plant or animal species or other special features on-site or within the surrounding area (i.e., ½-mile radius search). Enclosed is a completed Data Request Form and site location map (USGS Mason, Ohio quadrangle) showing the project location (Lat. 39° 17' 16.92" N, Long. 84° 18' 24.03" W) for your use.

If you have any questions regarding this request, please feel free to call me at (513) 612-9094. Thank you for your time and effort.

Sincerely,
Terracon Consultants, Inc.

A handwritten signature in black ink, appearing to read "Scott E. West".

Scott E. West
Project Manager II

Enclosure

NATURAL HERITAGE DATA REQUEST FORM

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE
OHIO NATURAL HERITAGE PROGRAM
2045 MORSE RD., BLDG. G-3
COLUMBUS, OHIO 43229-6693
PHONE: 614-265-6452; EMAIL: obdrequest@dnr.state.oh.us



INSTRUCTIONS:

Please complete both pages of this form, sign and return it to the address or email address above along with: (1) a brief letter describing your project, and (2) a map detailing the boundaries of your project site. A copy of the pertinent portion of a USGS 7.5 minute topographic map is preferred but other maps are acceptable. Data requests will be completed within approximately 30 days. There is currently no charge for data requests.

WHAT WE PROVIDE: The Natural Heritage Database is the most comprehensive source of information on the location of Ohio's rare species and significant natural features. Records for the following will be provided: plants and animals (state and federal listed species), high quality plant communities, geologic features, breeding animal concentrations and unprotected significant natural areas. We also provide locations for managed areas including federal, state, county, local and non-profit sites, as well as state and national scenic rivers. A minimum one mile radius around the project site will automatically be searched. Because the data is sensitive information, it is our policy to provide only the data needed to complete your project. The information is generally provided without comment on potential impacts to the species and their habitats and therefore does not constitute coordination with ODNR under NEPA, the Fish & Wildlife Coordination Act or the Federal Water Pollution Control Act. If your project requires ODNR coordination, please submit it for a more extensive environmental review by contacting John Kessler in the Office of Real Estate at 614-265-6621 or john.kessler@dnr.state.oh.us

Date: August 20, 2014 Company name: Terracon Consultants

Name of person response letter should be addressed to: Mr. ☒ Ms. ☐
Scott West

Address: 611 Lunken Park Drive

City/State/Zip: Cincinnati, Ohio 45226

Phone: (513) 612-9094 Fax: (513) 321-0294

E-mail address: swest@terracon.com

Project Name: Enyart Substation Site

Project Number: N1147119

Project Site Address: North side of Montgomery Road, approximately 275 feet west of the intersection with Union Cemetery Road

Project County: Hamilton

Project City/Township: Cincinnati

Project site is located on the following USGS 7.5 minute topographic quad(s): Mason, Ohio

Project Latitude and Longitude if available (decimal degrees is preferred):

Lat. 39° 17' 16.92" N, Long. 84° 18' 24.03" W

Description of work to be performed at the project site: Development of an electrical substation

How do you want your data reported? (Both formats provide exactly the same data. The only difference is in the format of our response. The manual search is most appropriate for small scale projects or for those who do not have GIS capabilities. Please choose only one option.)

Printed list and map (manual search) X OR GIS shapefile (computer search) _____

Additional information you require: _____

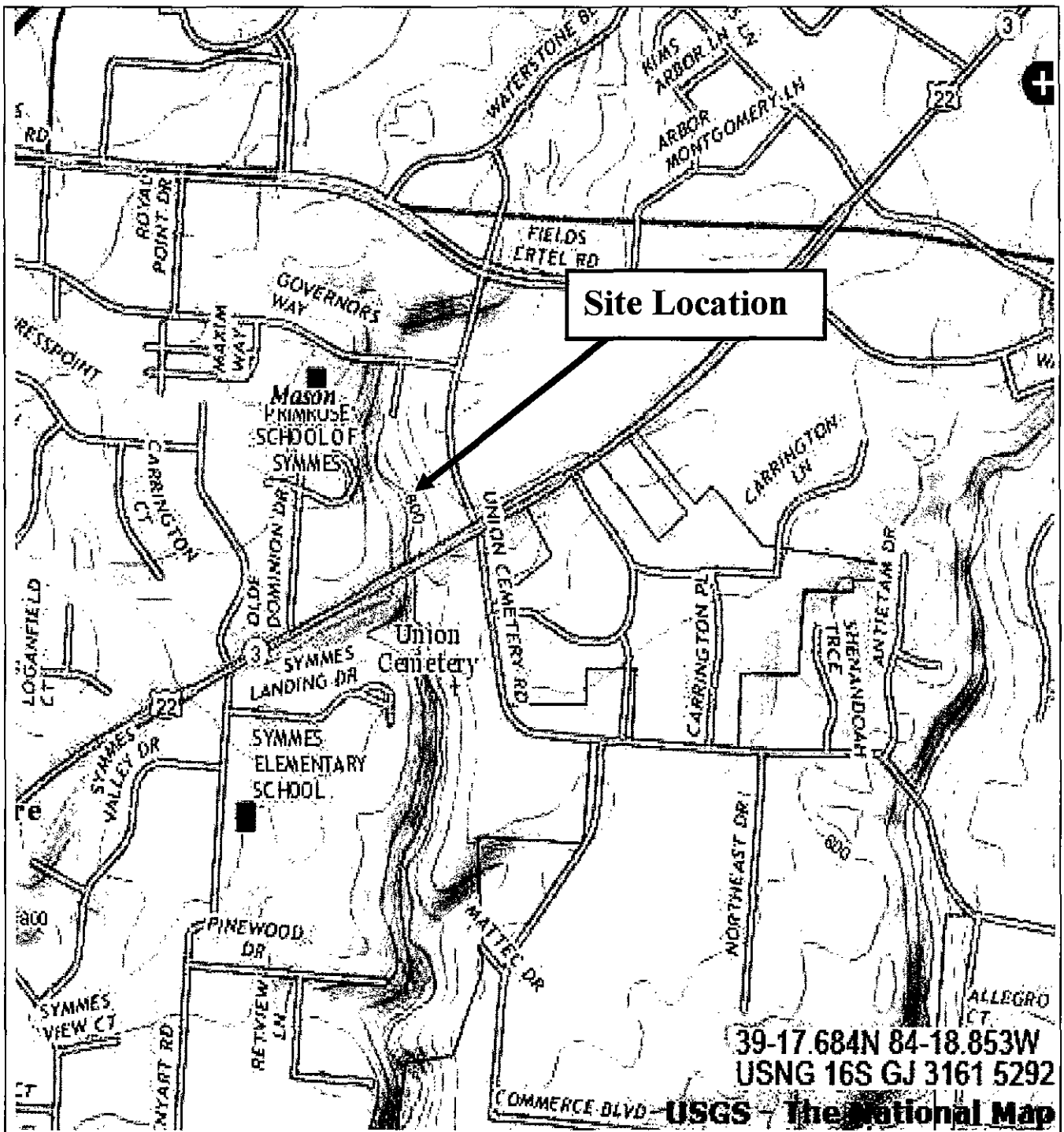
How will the information be used? This information will be used as supportive documentation for a USACE 404 NWP.

I certify that data supplied by the Ohio Natural Heritage Program will not be published without crediting the ODNR Division of Wildlife as the source of the material. In addition, I certify that electronic datasets will not be distributed to others without the consent of the Division of Wildlife, Ohio Natural Heritage Program.

Signature



Date: August 20, 2014



Terracon

Consulting Engineers & Scientists

Exhibit 1 Topographic Site Map

Enyart Substation Site
Cincinnati, Hamilton County, Ohio

↑
NORTH



Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

Ohio Division of Wildlife
Scott Zody, Chief
2045 Morse Rd., Bldg. G
Columbus, OH 43229-6693

August 25, 2014

Scott West
Terracon
611 Lunken Park Drive
Cincinnati, OH 45226

Dear Mr. West

After reviewing the Natural Heritage Database, I find the Division of Wildlife has no records of rare or endangered species in the Enyart Substation Site project area, including a one mile buffer, in the City of Cincinnati, Hamilton County, Ohio. We are unaware of any unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forests, national wildlife refuges, parks or forests or other protected natural areas within a one mile radius of the project area.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. This letter only represents a review of rare species and natural features data within the Ohio Natural Heritage Database. It does not fulfill coordination under the National Environmental Policy Act (NEPA) or the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.) and does not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Please contact me at 614-265-6452 if I can be of further assistance.

Sincerely,

A handwritten signature in cursive script that reads "Greg Schneider".

Greg Schneider, Administrator
Ohio Natural Heritage Database Program

August 20, 2014

Dr. Mary Knapp
U.S. Fish and Wildlife Service
4625 Morse Rd Suite 104
Columbus, OH, 43230

**Re: Threatened & Endangered Species Information Request
Enyart Substation
Montgomery Road
Cincinnati, Hamilton County, Ohio**

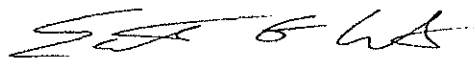
Dear Dr. Knapp:

Terracon Consultants, Inc. (Terracon) is requesting all pertinent file information for an approximately 6.5-acre site located in Cincinnati, Hamilton County, Ohio. The project involves potential fill activities within a stream. Enclosed is a site location map (USGS Mason, Ohio quadrangle) showing the project location (Lat. 39° 17' 16.92" N, Long. 84° 18' 24.03" W) for your use.

We are requesting any known occurrences of federally listed threatened or endangered species or any areas of designated critical habitat on-site or in the vicinity of the site. We would appreciate a review of your records for any occurrences within a ½-mile radius of the site. Please include as much detail as possible (e.g., a photocopy of the USGS topographic map or a list of latitude/longitude) for each known occurrence.

If you have any questions, please feel free to call me at (513) 612-9094 or email at swest@terracon.com. Thank you for your time and effort.

Sincerely,



Scott West
Project Manager II

Terracon Consultants, Inc. 611 Lunken Park Drive Cincinnati, Ohio 45226
P (513) 612 9094 F (513) 321 0294 www.Terracon.com

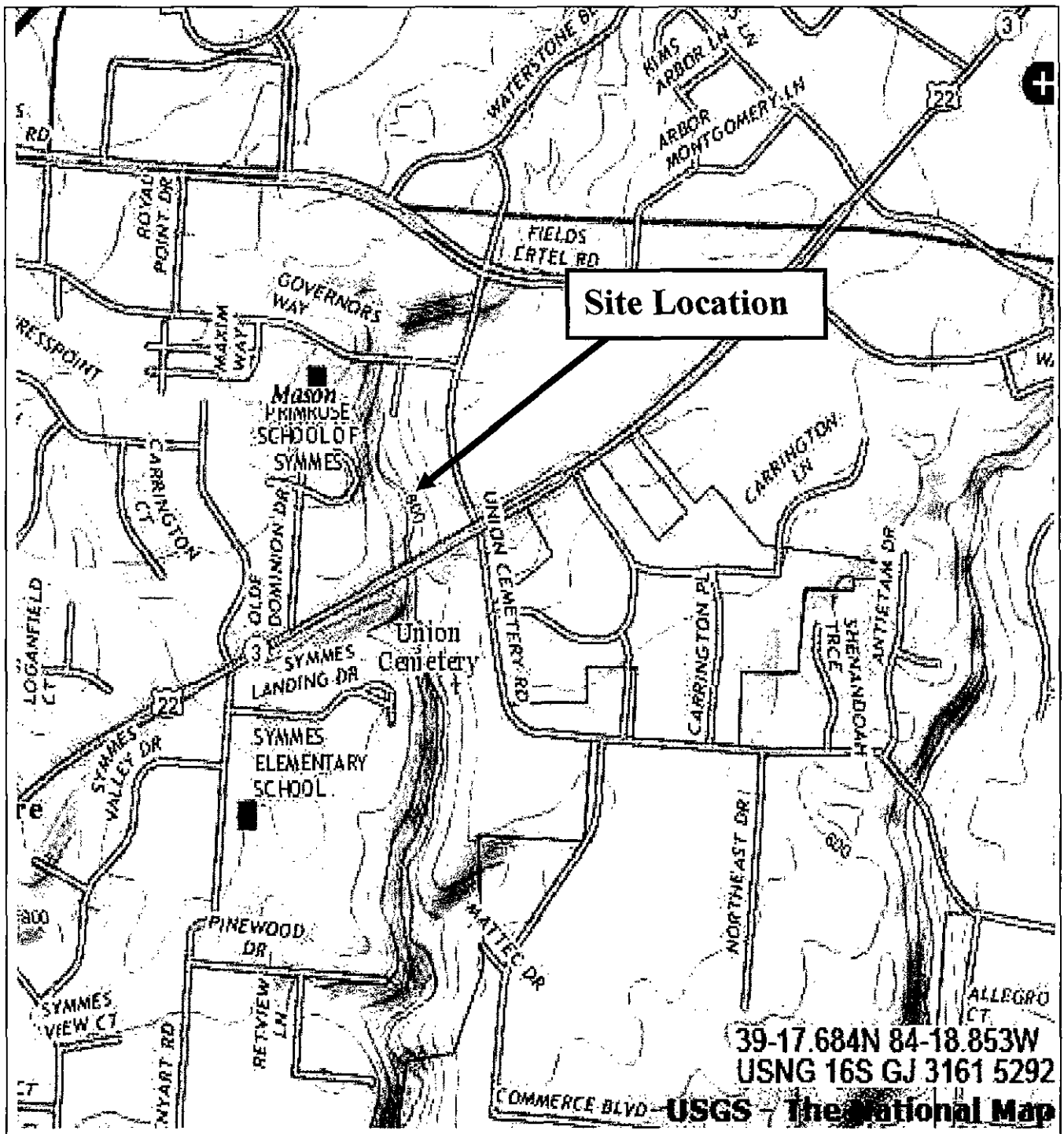


Geotechnical

Environmental

Construction Materials

Facilities



Terracon

Consulting Engineers & Scientists

Exhibit 1 Topographic Site Map

Enyart Substation Site
Cincinnati, Hamilton County, Ohio

↑
NORTH

From: susan_zimmermann@fws.gov [mailto:susan_zimmermann@fws.gov] **On Behalf Of** Ohio, FW3
Sent: Friday, September 05, 2014 9:03 AM
To: West, Scott
Subject: More Information Requested from USFWS

References:

Southgate Road Site - Guernsey Co.

Enyart Substation - Hamilton Co.

Proposed Kroger A-959 - Butler Co.

Duke Substation - Butler Co.

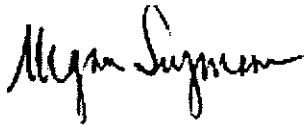
Dear Mr. West,

We have received your recent correspondence regarding the subject proposal. However, your request contained only minimal information regarding the proposed project and habitat types within the project area, precluding a thorough review by our office. Without additional information, it is impossible to accurately assess the project's potential effects. In order for our office to provide technical assistance, the following information should be submitted:

- location, including site address and **latitude/longitude**.
- a detailed project description, including a map and layout of any new construction.
- a detailed description of onsite habitat, including the size, location, and quality of streams, wetlands, forests and other natural areas that are proposed to be impacted.
- a description of potential Indiana bat roosting habitat (e.g., dead or living trees with split branches, split trunks, and/or exfoliating bark) and any cave/mine openings.
- photographs representative of all cover types on the site.
- any proposed measures to avoid and minimize impacts to federally listed species.

Prior to submitting this information, we recommend visiting the Service's Endangered Species Act Section 7 Technical Assistance website: <http://www.fws.gov/midwest/endangered/section7/s7process>. There you will find guidance to assist you in fulfilling the requirements for consultation under section 7 of the Endangered Species Act, including a step-by-step explanation of the section 7 process, species distribution lists, species life history information and examples of typical letters. If, after reviewing the technical assistance website, you determine that additional information from a biologist in our office is necessary to assist in the consultation process, please submit a complete request to Acting Field Supervisor Megan Seymour. Requests can be submitted to the address at the top of this letter, or e-mailed to ohio@fws.gov. If you have additional questions, please contact our office at (614) 416-8993.

Sincerely,

A handwritten signature in black ink, appearing to read "Megan Seymour". The signature is fluid and cursive, with the first name "Megan" and last name "Seymour" clearly distinguishable.

Megan Seymour

Acting Field Supervisor