Post & Schell P.C.
ATTORNEYS AT LAW

17 North Second Street
12th Floor
Harrisburg, PA 17101-1601
717-731-1970 Main
717-731-1985 Main Fax
www.postschell.com

Megan E. Rulli

mrulli@postschell.com
717-612-6012 Direct
717-731-1985 Direct Fax
File #: 204725

December 11, 2025

VIA ELECTRONIC FILING

Matthew Homsher, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd Floor North
P.O. Box 3265
Harrisburg, PA 17105-3265

RE: Application of The York Water Company – Wastewater for approval of the right to: (1) acquire certain wastewater system assets of Margaretta MHP, LLC; and (2) begin to offer, render, furnish or supply wastewater service to the public in an additional portion of Lower Windsor Township, York County, Pennsylvania
Docket No. A-2024-3049695

Dear Secretary Homsher:

In accordance with Ordering Paragraph 3 of the Pennsylvania Public Utility Commission's ("Commission") Opinion and Order entered October 20, 2025, in the above-captioned proceeding, The York Water Company ("York Water" or the "Company") respectfully submits the enclosed Act 537 Official Sewage Facilities Plan revision ("Plan Revision"). The Plan Revision is being filed to supplement the Pennsylvania Department of Environmental Protection ("PA DEP") letter approving the Plan Revision, which was originally filed by the Company on December 3, 2025, and which is also attached hereto. The Plan Revision consists of the abandonment of the Margaretta Mobile Home Park wastewater treatment plant with the reduction of sewage flows to York Water's East Prospect Borough wastewater treatment plant.

Respectfully submitted,

Megan E. Rulli

MER/tjc
Attachment

cc: Matthew T. Lamb, P.E. (*Bureau of Technical Utility Services) (via e-mail*)
Sean Donnelly (*Bureau of Technical Utility Services) (via e-mail*)
Daniel Searfoorce (*Bureau of Technical Utility Services) (via e-mail*)

Pennsylvania
Department of
Environmental Protection

November 26, 2025

Lower Windsor Township Board of Supervisors
2425 Craley Road
Wrightsville, PA 17368

Re: Approval Letter – Revision
Act 537 Planning
The York Water Company
DEP CODE NO. A3-67937-337-3
APS ID No. 1148468, AUTH ID No. 1545947
Lower Windsor Township, York County

Dear Supervisors:

The Department of Environmental Protection (DEP) has reviewed the proposed Official Plan revision consisting of the abandonment of the Margaretta Mobile Home Park wastewater treatment plant with the redirection of sewage flows to the York Water Company's East Prospect Borough wastewater treatment plant. There will be a proposed pump station at the mobile home park, located at 1446 Prayer Mission Road, and a force main that will extend north from the park to Cabin Creek. Once the line crosses the creek, it will continue on to Furnace Road and then travel east to Prayer Mission Road. From this point, the main will head north to East Prospect Road (SR 00124) Road, where it will be directly installed and connected to the wastewater treatment plant. The new facilities will allow for the connection 16,200 gpd, or a total of 42 EDUs (33 from the park and 9 for possible future connection of existing development along the force main route). All facilities will be located in Lower Windsor Township, York County.

The plan revision is approved. The following comment applies:

- The approved project will require a Water Quality Management (Part II) permit for the construction and operation of the proposed sewage facilities. The permit application must be submitted in the name of the York Water Company. Issuance of a Part II permit will be based upon a technical evaluation of the permit application and supporting documentation. Starting construction prior to obtaining a permit is a violation of the Clean Streams Law. The Part II permit application can be obtained from DEP's Clean Water Program at the letterhead address, by telephone at 717.705.4707 or downloaded from the Internet at: www.dep.state.pa.us/dep/deputate/watermgt/wqp/forms/forms_home.htm.

Any person aggrieved by this action may appeal the action to the Environmental Hearing Board (Board), pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. § 7514, and the Administrative Agency Law, 2 Pa. C.S. Chapter 5A. The Board's address is:

Environmental Hearing Board
Rachel Carson State Office Building, Second Floor
400 Market Street
P.O. Box 8457

Harrisburg, PA 17105-8457

TDD users may contact the Environmental Hearing Board through the Pennsylvania Relay Service, 800-654-5984.

Appeals must be filed with the Board within 30 days of receipt of notice of this action unless the appropriate statute provides a different time. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

A Notice of Appeal form and the Board's rules of practice and procedure may be obtained online at https://ehb.pa.gov or by contacting the Secretary to the Board at 717-787-3483. The Notice of Appeal form and the Board's rules are also available in braille and on audiotape from the Secretary to the Board.

IMPORTANT LEGAL RIGHTS ARE AT STAKE. YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD AT 717-787-3483 FOR MORE INFORMATION. YOU DO NOT NEED A LAWYER TO FILE A NOTICE OF APPEAL WITH THE BOARD.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST BE FILED WITH AND RECEIVED BY THE BOARD WITHIN 30 DAYS OF RECEIPT OF NOTICE OF THIS ACTION.

If you have any questions or concerns, please call Carrie Wilt at 717-705-4755 and refer to DEP Code No. A3-67937-337-3, Application No. 1148468 and Authorization No. 1545947.

Sincerely,

Maria D. Bebenek, P.E. (electronically signed 11/24/2025)

Maria D. Bebenek, P.E.
Program Manager

cc: Mark Snyder, The York Water Company (pdf)
Justin J. Mendinsky, Herbert, Rowland & Grubic, Inc. (pdf)
York County Planning Commission (pdf)

96 South George Street, Suite 300
York, PA 17401
717.893.2636
www.hrg-inc.com

SEWAGE FACILITIES PLANNING MODULE
YORK WATER COMPANY
LOWER WINDSOR TOWNSHIP SANITARY SEWER EXTENSION PROJECT

Lower Windsor Township, York County, PA

005887.0447

Submitted: September 2025

Herbert, Rowland & Grubic, Inc.
Engineering | Planning | Infrastructure Solutions

TABLE OF CONTENTS

SECTION 1: TRANSMITTAL LETTER, PA DEP LETTER, & PA DEP CHECKLIST

3850-FM-BCW0355 Rev. 5/2016

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

TRANSMITTAL LETTER FOR SEWAGE FACILITIES PLANNING MODULE

DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) USE ONLY				
DEP CODE #	CLIENT ID #	SITE ID #	APS ID #	AUTH. ID #

TO: Approving Agency (DEP or delegated local agency)
Department of Enviromental Protection, SCRO
ATTN: Carrie A. Wilt
909 Elmerton Avenue, Harrisburg, PA 17110

Date _____

Dear Sir/Madam:

Attached please find a completed sewage facilities planning module prepared by Herbert, Rowland & Grubic, Inc. *(Name)*

Engineering Consultant *(Title)* for Lower Windsor Township Sanitary Sewer Extension *(Name)*

a subdivision, commercial ,or industrial facility located in Lower Windsor Township

York *(City, Borough, Township)* County.

Check one

☒ (i) The planning module, as prepared and submitted by the applicant, is approved by the municipality as a proposed ☒ revision ☐ supplement for new land development to its Official Sewage Facilities Plan (Official Plan), and is ☒ adopted for submission to DEP ☐ transmitted to the delegated LA for approval in accordance with the requirements of 25 *Pa. Code* Chapter 71 and the *Pennsylvania Sewage Facilities Act* (35 P.S. §750),

OR

☐ (ii) The planning module will not be approved by the municipality as a proposed revision or supplement for new land development to its Official Plan because the project described therein is unacceptable for the reason(s) checked below:

Check Boxes

☐ Additional studies are being performed by or on behalf of this municipality which may have an effect on the planning module as prepared and submitted by the applicant. Attached hereto is the scope of services to be performed and the time schedule for completion of said studies.

☐ The planning module as submitted by the applicant fails to meet limitations imposed by other laws or ordinances, officially adopted comprehensive plans and/or environmental plans (e.g., zoning, land use, 25 *Pa. Code* Chapter 71). Specific reference or applicable segments of such laws or plans are attached hereto.

☐ Other (attach additional sheet giving specifics).

Municipal Secretary: Indicate below by checking appropriate boxes which components are being transmitted to the approving agency.

☒ Resolution of Adoption
☒ Module Completeness Checklist
☐ 2 Individual and Community Onlot Disposal of Sewage
☒ 3 Sewage Collection/Treatment Facilities
☐ 3s Small Flow Treatment Facilities
☒ 4A Municipal Planning Agency Review
☒ 4B County Planning Agency Review
☐ 4C County or Joint Health Department Review

Linda J. Zimmerman
Municipal Secretary (print)

Linda J Zimmerman
Signature

9/18/25
Date

Pennsylvania
Department of
Environmental Protection

June 3, 2025

Erica Luongo
Herbert, Rowland & Grubic, Inc.
369 Eat Park Drive
Harrisburg, PA 17111

Re: Checklist Letter – Planning Module (Component 3 – Sewage Collection and Treatment Facilities)
The York Water Company
DEP CODE NO. A3-67937-337-3
Lower Windsor Township, York County

Dear Ms. Luongo:

In response to your application mailer, this checklist letter outlines what is required to be submitted to the municipality and the Department of Environmental Protection (DEP) as a complete module packet for the proposed development. Enclosed are the applicable module forms. Please submit the completed planning modules and supporting information to the municipality in which the project is located. DEP must receive **two** copies. Please answer all questions within the planning module.

A copy of this letter should be attached to the planning module when submitted through the municipality to DEP. This letter is to be used by the applicant (or the applicant's authorized representative) as a checklist and guide to completing the planning modules and does not supersede the rules and regulations found in Chapter 71. The municipality must submit a complete module package. (See end of letter for applicant and municipal certification statements.)

Applicant Checklist (√ or N/A)	Materials Required to be Included in the Planning Package	DEP Completeness Review
DEP Checklist Letter		
√	DEP checklist letter is attached with items checked off by the applicant (or applicant's authorized representative) as included	
√	DEP checklist letter certification statement completed and signed	
Transmittal Letter (Form 3800-FM-BPNPSM0355)		
√	Transmittal Letter is attached, completed and the appropriate boxes in Section (i) are checked.	
√	Transmittal Letter is signed by the municipal secretary	
Resolution of Adoption (Form 3800-FM-BPNPSM0356)		

√	Resolution of Adoption is attached and completed	
√	Resolution of Adoption is signed by the municipal secretary	
√	Resolution of Adoption has a visible municipal seal	
Component 4A - Municipal Planning Agency Review (Form 3800-FM-BPNPSM0362A)		
√	Component 4A is attached, completed and signed	
√	Municipal Responses to Component 4A comments are included	
Component 4B – County Planning Agency Review (Form 3800-FM-BPNPSM0362B)		
√	Component 4B is attached, completed and signed	
√	Municipal Responses to Component 4B comments are included	
Component 3 Sewage Facilities Planning Module (Form 3800-FM-BPNPSM0353)		
Section A: Project Information		
√	Section A.1. The Project Name is completed	
√	Section A.2. The Brief Project Description is completed	
Section B: Client Information		
√	Client Information is completed	
Section C: Site Information		
√	Site Information is completed	
√	A copy of the 7.5-minute USGS Topographic map is attached with the development site outlined, as required by the instructions and the checklist	
Section D: Project Consultant Information		
√	Project Consultant Information is completed	
Section E: Availability of Drinking Water Supply		
√	The appropriate box is checked in Section E	
√	For existing public water supplies, the name of the company is provided	
√	For public water supplies, the certification letter from the public water company is attached	
Section F: Project Narrative		
√	The Project Narrative is attached	
√	All information required in the module directions has been addressed	
Section G: Proposed Wastewater Disposal Facilities		
√	Section G.1.a. The collection system boxes are checked	
N/A	The Pennsylvania Clean Streams Law (CSL) permit number is provided for existing systems	
√	Section G.1.b. The questions on the collection system are completed	
√	Section G.2.a. The appropriate treatment facility box is checked	
√	For existing treatment facilities, the name is provided	
√	For existing treatment facilities, the NPDES permit number is provided	
N/A	For existing treatment facilities, the CSL permit number is provided	
N/A	For new treatment facilities, the discharge location is provided	

√	Section G.2.b. The certification statement has been completed and signed by the wastewater treatment facility permittee or their representative	
√	Section G.3. The plot plan is attached and contains all items in the module instructions under Section G.3	
√	The plot plan will show the proposed sewer facilities, sewer extension and/or point of connection to the existing sewer line or point of discharge	
√	Copies of easement(s) or right-of-way(s) are attached	
√	Section G.4. The boxes are checked regarding Wetland Protection	
√	Section G.5. The boxes are checked regarding Primary Agricultural Land	
√	Section G.6. The boxes are checked confirming consistency with the Historic Preservation Act	
N/A	The Project Reform Form (PRF), available at https://pahistoricpreservation.com/shpo-environmental-review-continuity-operations/	
N/A	A return receipt for its submission to the PHMC is attached	
√	The PHMC review letter is attached	
√	Section G.7. The boxes are checked regarding Pennsylvania Natural Diversity Inventory (PNDI)	
√	Pennsylvania Natural Diversity Inventory (PNDI) Project Environmental Review Receipt is attached	
√	PNDI Review Receipt, if no potential impacts identified, is not older than 2 years	
√	All supporting resolution documentation from jurisdictional agencies (when necessary) is attached and not older than 2 years	
N/A	A completed PNDI Large Project Form (PNDI Form) (Form 8100-FM-FR0161) is attached with all supplemental materials and DEP is requested to complete the search.	
Section H: Alternative Sewage Facilities Analysis		
√	The Alternative Sewage Facilities Analysis is attached	
√	All information required in the module directions has been addressed	
Section I: Compliance with Water Quality Standards and Effluent Limitations		
√	The box is checked regarding Waters Designated for Special Protection	
√	The Social or Economic Justification is attached	
√	The box is checked regarding Pennsylvania Waters Designated As Impaired	
√	The box is checked regarding Interstate and International Waters	
√	The box is checked regarding Tributaries to the Chesapeake Bay and the required information is provided	
√	The Name of Permittee Agency, Authority, Municipality and the	

	Initials of Responsible Agent are provided	
N/A	If discharge to an intermittent stream, dry swale or manmade ditch is proposed, provide evidence that a certified letter has been sent to each owner of property over which the discharge will flow until perennial conditions are met	
Section J: Chapter 94 Consistency Determination		
√	A map showing the path of the sewage to the treatment facility and the location of the discharge is provided	
√	Section J.1. The Project Flows are provided	
√	Section J.2. The permitted, existing, and projected average and peak flows are provided in the table for collection, conveyance and treatment facilities	
√	Section J.3.a. The appropriate box is checked indicating capacity in the Collection and Conveyance Facilities	
N/A	Section J.3.b. The Collection System information is completed, signed and dated	
N/A	Section J.3.b. The Conveyance System information is completed, signed and dated	
N/A	Section J.4.a. The appropriate box is checked regarding projected overloads at the Treatment Facility	
√	Section J.4.b. The Treatment Facility information is completed, signed and dated	
√	The Permittee of the wastewater treatment facility has submitted a Chapter 94 Wasteload Management Report, which includes the information for the collection and conveyance system to serve this project	
N/A	An acceptable Wasteload Management Report Corrective Action Plan (CAP) and schedule has been submitted, as well as a connection management plan	
N/A	A letter from the permittee, which grants allocations to the project consistent with the CAP, and a copy of the connection management plan has been submitted	
N/A	Letter indicating the treatment plant is an interim regional treatment facility is attached	
Section K: Treatment and Disposal Options		
N/A	For proposed treatment facilities, the appropriate box is checked indicating the selected Treatment and Disposal Option	
Section L: Permeability Testing		
N/A	The Permeability Testing information is attached	
Section M: Preliminary Hydrogeologic Study		
N/A	The Preliminary Hydrogeologic Study is attached	
N/A	The Preliminary Hydrogeologic Study is signed and sealed by a Professional Geologist	
Section N: Detailed Hydrogeologic Study		
N/A	The Detailed Hydrogeologic Study is attached	

N/A	The Detailed Hydrogeologic Study is signed and sealed by a Professional Geologist	
Section O: Sewage Management		
√	Section O.1. The box is checked indicating municipal or private facilities	
√	If municipal, the remainder of Section O is not applicable	
N/A	If private, the required analysis and evaluation of sewage management options is attached	
N/A	Section O.2. The appropriate box is checked regarding the use of nutrient credits or offsets	
N/A	Section O.3. The Project Flows for the private facilities are provided	
N/A	Section O.4.a. The appropriate box is checked indicating capacity in the existing private Collection and Conveyance Facilities	
N/A	Section O.4.b. The private Collection System information is completed, signed and dated	
N/A	Section O.4.c. The private Conveyance System information is completed, signed and dated	
N/A	Section O.5.a. The appropriate box is checked regarding projected overloads at the private Treatment Facility	
N/A	Section O.5.b. The private Treatment Facility information is completed, signed and dated	
N/A	Section O.6. The box is checked indicating the municipality will assure proper operation and maintenance of the proposed private facilities	
N/A	The required documentation of sewage management is attached	
Section P: Public Notification Requirement		
√	All Public Notification boxes in this section are checked	
N/A	The public notice is attached, if public notification is necessary	
N/A	All comments received as a result of the notice are attached	
N/A	The municipal responses to these comments are attached	
N/A	The box is checked indicating that no comments were received, if valid	
Section Q: False Swearing Statements		
√	The planning module preparer's false swearing statement is completed and signed	
Section R: Planning Module Review Fee		
√	The correct fee has been calculated	
√	The correct fee has been paid	
N/A	The request for fee exemption has been checked	
N/A	The deed reference information is provided to support the fee exemption	
Completeness Checklist		
√	The module completeness checklist is included	

√	All completeness items have been checked as included by the municipality, as appropriate	
√	The Municipal Official has signed and dated the checklist	

In all cases, address the immediate and long-range sewage disposal needs of the proposal and comply with 25 Pa. Code, Chapter 71, Subchapter C relating to New Land Development Plan Revisions.

If additional copies of the enclosed modules are needed, or if you have any questions concerning the information required, please call me at 717.705.4755.

Sincerely,

Carrie A. Wilt

Carrie A. Wilt
Sewage Planning Specialist

Enclosures (electronic)

CERTIFICATION STATEMENT

I certify that this submittal is complete and includes all requested items. I understand that failure to submit a complete module package may result in a denial of the application.

Signed: _____ Date: 09/18/2025
Applicant (or Applicant's authorized representative)

Signed: _____ Date: 9/18/25
Municipal Secretary

3850-FM-BCW0353 2/2025
Checklist

Pennsylvania
Department of
Environmental Protection

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

Completeness Checklist

The individual completing the component should use the checklist below to assure that all items are included in the module package. The municipality should confirm that the required items have been included within 10 days of receipt, and if complete, sign and date the checklist.

Sewage Collection and Treatment Facilities

- ☒ Name and Address of land development project.
- ☒ U.S.G.S. 7.5 minute topographic map with development area plotted.
- ☒ Project Narrative.
- ☒ Letter from water company (if applicable).
- ☒ Alternative Analysis Narrative.
- ☐ Details of chosen financial assurance method.
- ☐ Proof of Public Notification (if applicable).
- ☒ Name of existing collection and conveyance facilities.
- ☒ Name and NPDES number of existing treatment facility to serve proposed development.
- ☒ Plot plan of project with required information.
- ☒ Total sewage flows to facilities table.
- ☒ Signature of existing collection and/or conveyance Chapter 94 report preparer.
- ☒ Signature of existing treatment facility Chapter 94 report preparer.
- ☐ Letter granting allocation to project (if applicable).
- ☒ Signature acknowledging False Swearing Statement.
- ☒ Completed Component 4 (Planning Agency Review) for each existing planning agency and health department.
- ☐ Information on selected treatment and disposal option.
- ☐ Permeability information (if applicable).
- ☐ Preliminary hydrogeology (if applicable).
- ☐ Detailed hydrogeology (if applicable).

Municipal Action

- ☒ Component 3 (Sewage Collection and Treatment Facilities).
- ☒ Component 4 (Planning Agency Comments and Responses).
- ☐ Proof of Public Notification.
- ☐ Long-term operation and maintenance option selection.
- ☐ Comments, and responses to comments generated by public notification.
- ☒ Transmittal Letter

Signature of Municipal Official

9/18/25

Date submittal determined complete

SECTION 2: RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

2025-16

3850-FM-BCW0356 Rev. 5/2016

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code No.

RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

RESOLUTION OF THE (SUPERVISORS) (COMMISSIONERS) (COUNCILMEN) of Lower Windsor
(TOWNSHIP) ~~(BOROUGH) (CITY)~~, York COUNTY, PENNSYLVANIA (hereinafter "the municipality").

WHEREAS Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the *Pennsylvania Sewage Facilities Act*, as Amended, and the rules and Regulations of the Pennsylvania Department of Environmental Protection (DEP) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, require the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters of the Commonwealth and/or environmental health hazards from sewage wastes, and to revise said plan whenever it is necessary to determine whether a proposed method of sewage disposal for a new land development conforms to a comprehensive program of pollution control and water quality management, and

WHEREAS The York Water Company (land developer) has proposed the development of a parcel of land identified as Margaretta Mobile Home Park (name of subdivision), and described in the attached Sewage Facilities Planning Module, and proposes that such subdivision be served by: (check all that apply), ☐ sewer tap-ins, ☒ sewer extension, ☐ new treatment facility, ☐ individual onlot systems, ☐ community onlot systems, ☐ spray irrigation, ☐ retaining tanks, ☐ other, (please specify). _____

WHEREAS, Lower Windsor Township (municipality) finds that the subdivision described in the attached Sewage Facilities Planning Module conforms to applicable sewage related zoning and other sewage related municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the (Supervisors) ~~(Commissioners) (Councilmen)~~ of the (Township) ~~(Borough) (City)~~ of Lower Windsor hereby adopt and submit to DEP for its approval as a revision to the "Official Sewage Facilities Plan" of the municipality the above referenced Sewage Facilities Planning Module which is attached hereto.

I Ruth J Zimmerman (Signature), Secretary, Lower Windsor Township Township Board of Supervisors ~~(Borough Council) (City Councilmen)~~, hereby certify that the foregoing is a true copy of the Township ~~(Borough) (City)~~ Resolution # 2025-16, adopted, September 11, 2025.

Municipal Address:

Lower Windsor Township
2425 Craley Road
Wrightsville, PA 17368
Telephone (717) 244-6813

Seal of Governing Body

SECTION 3: SEWAGE FACILITIES PLANNING MODULE COMPONENT 3 - SEWAGE COLLECTION AND TREATMENT FACILITIES

HRG

3850-FM-BCW0353 Rev. 2/2025
Form

Code No.

Pennsylvania Department of Environmental Protection

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

SEWAGE FACILITIES PLANNING MODULE

Component 3. Sewage Collection and Treatment Facilities

(Return completed module package to appropriate municipality)

DEP USE ONLY				
DEP CODE #	CLIENT ID #	SITE ID #	APS ID #	AUTH ID #

This planning module component is used to fulfill the planning requirements of Act 537 for the following types of projects: (1) a subdivision to be served by sewage collection, conveyance or treatment facilities, (2) a tap-in to an existing collection system with flows on a lot of 2 EDU's or more, or (3) the construction of, or modification to, wastewater collection, conveyance or treatment facilities that will require DEP to issue or modify a Clean Streams Law permit. Planning for any project that will require DEP to issue or modify a permit cannot be processed by a delegated agency. Delegated agencies must send their projects to DEP for final planning approval.

This component, along with any other documents specified in the cover letter, must be completed and submitted to the municipality with jurisdiction over the project site for review and approval. All required documentation must be attached for the Sewage Facilities Planning Module to be complete. Refer to the instructions for help in completing this component.

REVIEW FEES: Amendments to the Sewage Facilities Act established fees to be paid by the developer for review of planning modules for land development. These fees may vary depending on the approving agency for the project (DEP or delegated local agency). Please see section R and the instructions for more information on these fees.

NOTE: All projects must complete Sections A through I, and Sections O through R. Complete Sections J, K, L, M and/or N if applicable or marked ☒.

A. PROJECT INFORMATION (See Section A of instructions)

1. Project Name Lower Windsor Township Sanitary Sewer Extension Project

2. Brief Project Description At the site of the Margaretta Mobile Home Park Wastewater Treatment Plant (WWTP), a submersible duplex pump station will be installed, with new gravity sewer to collect all flow from the influent of the WWTP, allowing for the existing WWTP to be decomissioned by the property owner. A 4" DR-11 HDPE force main will be installed crossing under the Cabin Creek, down 1st Street, Furance Road, Prayer Mission Road, and East Prospect Street to the East Prospect Sewage Treatment Plant.

B. CLIENT (MUNICIPALITY) INFORMATION (See Section B of instructions)

Municipality Name	County	City	Boro	Twp
Lower Windsor	York	☐	☐	☒

Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title
Zimmerman	Linda			

Additional Individual Last Name	First Name	MI	Suffix	Title

Municipality Mailing Address Line 1	Mailing Address Line 2
2425 Craley Road	

Address Last Line -- City	State	ZIP+4
Wrightsville	PA	17368

Area Code + Phone + Ext.	FAX (optional)	Email (optional)

(717) 244-6813

C. SITE INFORMATION (See Section C of instructions)

Site (Land Development or Project) Name

Lower Windsor Township Sanitary Sewer Extension

Site Location Line 1	Site Location Line 2
Mill Street	

Site Location Last Line -- City	State	ZIP+4	Latitude	Longitude
York	PA	17406	39.961	-76.538

Detailed Written Directions to Site Take I-83 S to PA-124/Mount Rose Ave. Follow PA-124 for 8.3 miles, then turn right on Prayer Mission Road, after 0.4 miles, turn right onto Mill Street. At the end of Mill Street is the existing Margaretta Mobile Home Park WWTP.

Description of Site The existing Margaretta Mobile Home Park wastewater treatment plant (PA DEP Site ID #443089) serves approximately 85 mobile homes within the Margaretta Mobile Home Park (PA DEP Client ID #256550). The York Water Company (PA DEP Client ID #69800) will be installing a submersible duplex pump station and gravity sewer on site to take all wastewater flow from the treatment plant and direct them to the East Prospect Sewage Treatment Plant via a 4-inch force main.

Site Contact (Developer/Owner)

Last Name	First Name	MI	Suffix	Phone	Ext.
Synder	Mark		PE	(717) 845-3601	

Site Contact Title	Site Contact Firm (if none, leave blank)
Vice President of Engineering	The York Water Company
FAX	Email
	marks@yorkwater.com
Mailing Address Line 1	Mailing Address Line 2
130 East Market Street	

Mailing Address Last Line -- City	State	ZIP+4
York	PA	17401

D. PROJECT CONSULTANT INFORMATION (See Section D of instructions)

Last Name	First Name	MI	Suffix
Mendinsky	Justin	J	PE

Title	Consulting Firm Name
Assistant Vice President	Herbert, Rowland & Grubic, Inc.
Mailing Address Line 1	Mailing Address Line 2
369 East Park Drive	

Address Last Line – City	State	ZIP+4	Country
Harrisburg	PA	17111	USA

Email	Area Code + Phone	Ext.	Area Code + FAX
jmendinsky@hrg-inc.com	(717) 564-1121		

E. AVAILABILITY OF DRINKING WATER SUPPLY

The project will be provided with drinking water from the following source: (Check appropriate box)

☐ Individual wells or cisterns.

☐ A proposed public water supply.

☒ An existing public water supply.

If existing public water supply is to be used, provide the name of the water company and attach documentation from the water company stating that it will serve the project.

Name of water company: The York Water Company

F. PROJECT NARRATIVE (See Section F of instructions)

☒ A narrative has been prepared as described in Section F of the instructions and is attached.

The applicant may choose to include additional information beyond that required by Section F of the instructions.

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (See Section G of instructions)

Check all boxes that apply, and provide information on collection, conveyance and treatment facilities and EDU's served. This information will be used to determine consistency with Chapter 93 (relating to wastewater treatment requirements).

1. **COLLECTION SYSTEM**

a. Check appropriate box concerning collection system

☐ New collection system ☒ Pump Station ☒ Force Main

☒ Grinder pump(s) ☐ Extension to existing collection system ☐ Expansion of existing facility

Clean Streams Law Permit Number _____

b. Answer questions below on collection system

Number of EDU's and proposed connections to be served by collection system. EDU's 42

Connections 13

Name of:

existing collection or conveyance system Discharges directly to East Prospect STP

owner The York Water Company

existing interceptor _____

owner _____

2. **WASTEWATER TREATMENT FACILITY**

Check all boxes that apply, and provide information on collection, conveyance and treatment facilities and EDU's served. This information will be used to determine consistency with Chapter(s) 91 (relating to general provisions), 92 (relating to national Pollution Discharge Elimination System permitting, monitoring and compliance) and 93 (relating to water quality standards).

a. Check appropriate box and provide requested information concerning the treatment facility

☐ New facility ☒ Existing facility ☐ Upgrade of existing facility ☐ Expansion of existing facility

Name of existing facility East Prospect STP

NPDES Permit Number for existing facility PA0084565

Clean Streams Law Permit Number _____

Location of discharge point for a new facility. Latitude _____ Longitude _____

b. The following certification statement must be completed and signed by the wastewater treatment facility permitee or their representative.

As an authorized representative of the permittee, I confirm that the East Prospect STP (Name from above) sewage treatment facilities can accept sewage flows from this project without adversely affecting the facility's ability to achieve all applicable technology and water quality based effluent limits (see Section I) and conditions contained in the NPDES permit identified above.

Name of Permittee Agency, Authority, Municipality The York Water Company

Name of Responsible Agent Mark Snyder

Agent Signature Mark S Snyder Date 07/24/2025

(Also see Section I. 4.)

G. PROPOSED WASTEWATER DISPOSAL FACILITIES (Continued)

3. PLOT PLAN

The following information is to be submitted on a plot plan of the proposed subdivision.

a. Existing and proposed buildings.
b. Lot lines and lot sizes.
c. Adjacent lots.
d. Remainder of tract.
e. Existing and proposed sewerage facilities. Plot location of discharge point, land application field, spray field, COLDS, or LVCOLDS if a new facility is proposed.
f. Show tap-in or extension to the point of connection to existing collection system (if applicable).
g. Existing and proposed water supplies and surface water (wells, springs, ponds, streams, etc.)
h. Existing and proposed rights-of-way.
i. Existing and proposed buildings, streets, roadways, access roads, etc.
j. Any designated recreational or open space area.
k. Wetlands - from National Wetland Inventory Mapping and USGS Hydric Soils Mapping.
l. Flood plains or Flood prone areas, floodways, (Federal Flood Insurance Mapping)
m. Prime Agricultural Land.
n. Any other facilities (pipelines, power lines, etc.)
o. Orientation to north.
p. Locations of all site testing activities (soil profile test pits, slope measurements, permeability test sites, background sampling, etc. (if applicable).
q. Soils types and boundaries when a land based system is proposed.
r. Topographic lines with elevations when a land based system is proposed

4. WETLAND PROTECTION

	YES	NO	
a.	☒	☐	Are there wetlands in the project area? If yes, ensure these areas appear on the plot plan as shown in the mapping or through on-site delineation.
b.	☒	☐	Are there any construction activities (encroachments, or obstructions) proposed in, along, or through the wetlands? If yes, Identify any proposed encroachments on wetlands and identify whether a General Permit or a full encroachment permit will be required. If a full permit is required, address time and cost impacts on the project. Note that wetland encroachments should be avoided where feasible. Also note that a feasible alternative **MUST BE SELECTED** to an identified encroachment on an exceptional value wetland as defined in Chapter 105. Identify any project impacts on streams classified as HQ or EV and address impacts of the permitting requirements of said encroachments on the project.

5. PRIME AGRICULTURAL LAND PROTECTION

YES	NO	
☐	☒	Will the project involve the disturbance of prime agricultural lands? If yes, coordinate with local officials to resolve any conflicts with the local prime agricultural land protection program. The project must be consistent with such municipal programs before the sewage facilities planning module package may be submitted to DEP. If no, prime agricultural land protection is not a factor to this project.
☐	☐	Have prime agricultural land protection issues been settled?

6. HISTORIC PRESERVATION ACT

☒ Applicants shall coordinate with the State Historic and Preservation Office (SHPO) and the Pennsylvania Historic and Museum Commission (PHMC) using the PA-SHARE online consultation tool at https://www.pa.gov/agencies/phmc/pa-share.html. The planning submittal must include the response received by the applicant from PA-SHARE.

7. **PROTECTION OF RARE, ENDANGERED OR THREATENED SPECIES**

Check one:

☒ The "Pennsylvania Natural Diversity Inventory (PNDI) Project Environmental Review Receipt" resulting from my search of the PNDI database and all supporting documentation from jurisdictional agencies (when necessary) is/are attached.

☐ A Manual Project Submission Form was submitted to each jurisdictional agency and their responses are attached.

☐ A concurrent review has been requested. I realize that all supporting documentation from each jurisdictional agency must be submitted to the DEP before the end of the technical review due date or my planning module may be denied.

Applicant or Consultant Initials _____.

H. ALTERNATIVE SEWAGE FACILITIES ANALYSIS (See Section H of instructions)

☒ An alternative sewage facilities analysis has been prepared as described in Section H of the attached instructions and is attached to this component.

The applicant may choose to include additional information beyond that required by Section H of the attached instructions.

I. COMPLIANCE WITH WATER QUALITY STANDARDS AND EFFLUENT LIMITATIONS (See Section I of instructions) (Check and complete all that apply.)

1. **Waters designated for Special Protection**

☐ The proposed project will result in a new or increased discharge into special protection waters as identified in Title 25, Pennsylvania Code, Chapter 93. The Social or Economic Justification (SEJ) required by Section 93.4c. is attached.

2. **Pennsylvania Waters Designated As Impaired**

☐ The proposed project will result in a new or increased discharge of a pollutant into waters that DEP has identified as being impaired by that pollutant. A pre-planning meeting was held with the appropriate DEP regional office staff to discuss water quality based discharge limitations.

3. **Interstate and International Waters**

☐ The proposed project will result in a new or increased discharge into interstate or international waters. A pre-planning meeting was held with the appropriate DEP regional office staff to discuss effluent limitations necessary to meet the requirements of the interstate or international compact.

4 **Tributaries To The Chesapeake Bay**

☒ The proposed project result in a new or increased discharge of sewage into a tributary to the Chesapeake Bay. This proposal for a new sewage treatment facility or new flows to an existing facility includes total nitrogen and total phosphorus in the following amounts: 5.40 pounds of TN per year, and 0.95 pounds of TP per year. Based on the process design and effluent limits, the total nitrogen treatment capacity of the wastewater treatment facility is _____ pounds per year and the total phosphorus capacity is _____ pounds per year as determined by the wastewater treatment facility permitee. The permitee has determined that the additional TN and TP to be contributed by this project (as modified by credits and/or offsets to be provided) will not cause the discharge to exceed the annual total mass limits for these parameters. Documentation of compliance with nutrient allocations is attached.

Name of Permittee Agency, Authority, Municipality The York Water Company

Initials of Responsible Agent (See Section G 2.b) MLS

See *Special Instructions* (Form 3800-FM-BPNPSM0353-1) for additional information on Chesapeake Bay watershed requirements.

☒ J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)

Projects that propose the use of existing municipal collection, conveyance or wastewater treatment facilities, or the construction of collection and conveyance facilities to be served by existing municipal wastewater treatment facilities must be consistent with the requirements of Title 25, Chapter 94 (relating to Municipal Wasteload Management). If not previously included in Section F, include a general map showing the path of the sewage to the treatment facility. If more than one municipality or authority will be affected by the project, please obtain the information required in this section for each. Additional sheets may be attached for this purpose.

1. Project Flows 16,200 gpd
2. Total Sewage Flows to Facilities (pathway from point of origin through treatment plant)

   When providing "treatment facilities" sewage flows, use Annual Average Daily Flow for "average" and Maximum Monthly Average Daily Flow for "peak" in all cases. For "peak flows" in "collection" and "conveyance" facilities, indicate whether these flows are "peak hourly flow" or "peak instantaneous flow" and how this figure was derived (i.e., metered, measured, estimated, etc.).

   a. Enter average and peak sewage flows for each proposed or existing facility as designed or permitted.

   b. Enter the average and peak sewage flows for the most restrictive sections of the existing sewage facilities.

   c. Enter the average and peak sewage flows, projected for 5 years (2 years for pump stations) through the most restrictive sections of the existing sewage facilities. Include existing, proposed (this project) and future project (other approved projects) flows.

   To complete the table, refer to the instructions, Section J.

	a. Design and/or Permitted Capacity (gpd)		b. Present Flows (gpd)		c. Projected Flows in 5 years (gpd) (2 years for P.S.)	
	Average	**Peak**	**Average**	**Peak**	**Average**	**Peak**
Collection	N/A	N/A	N/A	N/A	N/A	N/A
Conveyance	N/A	N/A	N/A	N/A	N/A	N/A
Treatment	0.175	0.205	0.057	0.062	0.086	0.091

3. Collection and Conveyance Facilities

   The questions below are to be answered by the sewer authority, municipality, or agency responsible for completing the Chapter 94 report for the collection and conveyance facilities. These questions should be answered in coordination with the latest Chapter 94 annual report and the above table. The individual(s) signing below must be legally authorized to make representation for the organization.

   YES NO

   a. ☐ ☒ This project proposes sewer extensions or tap-ins. Will these actions create a hydraulic overload within five years on any existing collection or conveyance facilities that are part of the system?

   If yes, this sewage facilities planning module will not be accepted for review by the municipality, delegated local agency and/or DEP until all inconsistencies with Chapter 94 are resolved or unless there is an approved Corrective Action Plan (CAP) granting an allocation for this project. A letter granting allocations to this project under the CAP must be attached to the module package.

   If no, a representative of the sewer authority, municipality, or agency responsible for completing the Chapter 94 report for the collection and conveyance facilities must sign below to indicate that the collection and conveyance facilities have adequate capacity and are able to provide service to the proposed development in accordance with both §71.53(d)(3) and Chapter 94 requirements and that this proposal will not affect that status.

   b. Collection System

   Name of Agency, Authority, Municipality N/A - Proposed force main flows directly to WWTP

   Name of Responsible Agent _____

   Agent Signature _____ Date _____

☒ J. CHAPTER 94 CONSISTENCY DETERMINATION (See Section J of instructions)

c. Conveyance System

Name of Agency, Authority, Municipality N/A - Proposed force main flows directly to WWTP

Name of Responsible Agent _____

Agent Signature _____

Date _____

4. Treatment Facility

The questions below are to be answered by a representative of the facility permittee in coordination with the information in the table and the latest Chapter 94 report. The individual signing below must be legally authorized to make representation for the organization.

YES NO

a. ☐ ☒ This project proposes the use of an existing wastewater treatment plant for the disposal of sewage. Will this action create a hydraulic or organic overload within 5 years at that facility?

If yes, this planning module for sewage facilities will not be reviewed by the municipality, delegated local agency and/or DEP until this inconsistency with Chapter 94 is resolved or unless there is an approved CAP granting an allocation for this project. A letter granting allocations to this project under the CAP must be attached to the planning module.

If no, the treatment facility permittee must sign below to indicate that this facility has adequate treatment capacity and is able to provide wastewater treatment services for the proposed development in accordance with both §71.53(d)(3) and Chapter 94 requirements and that this proposal will not impact that status.

b. Name of Agency, Authority, Municipality The York Water Company

Name of Responsible Agent MARK S SNYDER

Agent Signature Mark S Snyder

Date 07/24/2025

☐ K. TREATMENT AND DISPOSAL OPTIONS (See Section K of instructions)

This section is for land development projects that propose construction of wastewater treatment facilities. Please note that, since these projects require permits issued by DEP, these projects may **NOT** receive final planning approval from a delegated local agency. Delegated local agencies must send these projects to DEP for final planning approval.

Check the appropriate box indicating the selected treatment and disposal option.

☐ 1. Spray irrigation (other than individual residential spray systems (IRSIS)) or other land application is proposed, and the information requested in Section K.1. of the planning module instructions are attached.

☐ 2. Recycle and reuse is proposed and the information requested in Section K-2 of the planning module instructions is attached.

☐ 3. A discharge to a dry stream channel is proposed, and the information requested in Section K.3. of the planning module instructions are attached.

☐ 4 A discharge to a perennial surface water body is proposed, and the information requested in Section K.4. of the planning module instructions are attached.

☐ L. PERMEABILITY TESTING (See Section L of instructions)

☐ The information required in Section L of the instructions is attached.

☐ M. PRELIMINARY HYDROGEOLOGIC STUDY (See Section M of instructions)

☐ The information required in Section M of the instructions is attached.

☐ N. DETAILED HYDROGEOLOGIC STUDY (See Section N of instructions)

☐ The detailed hydrogeologic information required in Section N. of the instructions is attached.

O. SEWAGE MANAGEMENT (See Section O of instructions)

(1-3 for completion by the developer(project sponser), 4-5 for completion by the non-municipal facility agent and 6 for completion by the municipality)

	Yes	No	
1.	☐	☒	Is connection to, or construction of, a DEP permitted, non-municipal sewage facility or a local agency permitted, community onlot sewage facility proposed.

If Yes, respond to the following questions, attach the supporting analysis, and an evaluation of the options available to assure long-term proper operation and maintenance of the proposed non-municipal facilities. If No, skip the remainder of Section O.

2. Project Flows _____ gpd

	Yes	No	
3.	☐	☐	Is the use of nutrient credits or offsets a part of this project?

If yes, attach a letter of intent to puchase the necessary credits and describe the assurance that these credits and offsets will be available for the remaining design life of the non-municipal sewage facility;

(For completion by non-municipal facility agent)

4. Collection and Conveyance Facilities

The questions below are to be answered by the organization/individual responsible for the non-municipal collection and conveyance facilities. The individual(s) signing below must be legally authorized to make representation for the organization.

	Yes	No	
a.	☐	☐	If this project proposes sewer extensions or tap-ins, will these actions create a hydraulic overload on any existing collection or conveyance facilities that are part of the system?

If yes, this sewage facilities planning module will not be accepted for review by the municipality, delegated local agency and/or DEP until this issue is resolved.

If no, a representative of the organization responsible for the collection and conveyance facilities must sign below to indicate that the collection and conveyance facilities have adequate capacity and are able to provide service to the proposed development in accordance with Chapter 71 §71.53(d)(3) and that this proposal will not affect that status.

b. Collection System
Name of Responsible Organization _____
Name of Responsible Agent _____
Agent Signature _____
Date _____

c. Conveyance System
Name of Responsible Organization _____
Name of Responsible Agent _____
Agent Signature _____
Date _____

5. Treatment Facility

The questions below are to be answered by a representative of the facility permittee. The individual signing below must be legally authorized to make representation for the organization.

	Yes	No	
a.	☐	☐	If this project proposes the use of an existing non-municipal wastewater treatment plant for the disposal of sewage, will this action create a hydraulic or organic overload at that facility?

If yes, this planning module for sewage facilities will not be reviewed by the municipality, delegated local agency and/or DEP until this issue is resolved.

If no, the treatment facility permittee must sign below to indicate that this facility has adequate treatment capacity and is able to provide wastewater treatment services for the proposed development in accordance with §71.53(d)(3) and that this proposal will not impact that status.

b. Name of Facility _____

Name of Responsible Agent _____

Agent Signature _____

Date _____

(For completion by the municipality)

6. ☐ The **SELECTED OPTION** necessary to assure long-term proper operation and maintenance of the proposed non-municipal facilities is clearly identified with documentation attached in the planning module package.

P. PUBLIC NOTIFICATION REQUIREMENT (See Section P of instructions)

This section must be completed to determine if the applicant will be required to publish facts about the project in a newspaper of general circulation to provide a chance for the general public to comment on proposed new land development projects. This notice may be provided by the applicant or the applicant's agent, the municipality or the local agency by publication in a newspaper of general circulation within the municipality affected. Where an applicant or an applicant's agent provides the required notice for publication, the applicant or applicant's agent shall notify the municipality or local agency and the municipality and local agency will be relieved of the obligation to publish. The required content of the publication notice is found in Section P of the instructions.

To complete this section, each of the following questions must be answered with a "yes" or "no". Newspaper publication is required if any of the following are answered "yes".

	Yes	**No**	
1.	☐	☒	Does the project propose the construction of a sewage treatment facility ?
2.	☐	☒	Will the project change the flow at an existing sewage treatment facility by more than 50,000 gallons per day?
3.	☐	☒	Will the project result in a public expenditure for the sewage facilities portion of the project in excess of $100,000?
4.	☐	☒	Will the project lead to a major modification of the existing municipal administrative organizations within the municipal government?
5.	☐	☒	Will the project require the establishment of *new* municipal administrative organizations within the municipal government?
6.	☐	☒	Will the project result in a subdivision of 50 lots or more? (onlot sewage disposal only)
7.	☐	☒	Does the project involve a major change in established growth projections?
8.	☐	☒	Does the project involve a different land use pattern than that established in the municipality's Official Sewage Plan?

P. PUBLIC NOTIFICATION REQUIREMENT cont'd. (See Section P of instructions)

9. ☐ ☒ Does the project involve the use of large volume onlot sewage disposal systems (Flow > 10,000 gpd)?
10. ☐ ☒ Does the project require resolution of a conflict between the proposed alternative and consistency requirements contained in §71.21(a)(5)(i), (ii), (iii)?
11. ☐ ☒ Will sewage facilities discharge into high quality or exceptional value waters?

☐ Attached is a copy of:
- ☐ the public notice,
- ☐ all comments received as a result of the notice,
- ☐ the municipal response to these comments.

☐ No comments were received. A copy of the public notice is attached.

Q. FALSE SWEARING STATEMENT (See Section Q of instructions)

I verify that the statements made in this component are true and correct to the best of my knowledge, information and belief. I understand that false statements in this component are made subject to the penalties of 18 PA C.S.A. §4904 relating to unsworn falsification to authorities.

Justin J Mendinsky, PE	Justin J. Mendinsky
Name (Print)	Signature
Assistant Vice President	07/30/2025
Title	Date
369 East Park Drive, Harrisburg, PA 17111	717-564-1121
Address	Telephone Number

R. REVIEW FEE (See Section R of instructions)

The Sewage Facilities Act establishes a fee for the DEP planning module review. DEP will calculate the review fee for the project and invoice the project sponsor **OR** the project sponsor may attach a self-calculated fee payment to the planning module prior to submission of the planning package to DEP. (Since the fee and fee collection procedures may vary if a "delegated local agency" is conducting the review, the project sponsor should contact the "delegated local agency" to determine these details.) Check the appropriate box.

☐ I request DEP calculate the review fee for my project and send me an invoice for the correct amount. I understand DEP's review of my project will not begin until DEP receives the correct review fee from me for the project.

☒ I have calculated the review fee for my project using the formula found below and the review fee guidance in the instructions. I have attached a check or money order in the amount of $2,100 payable to "Commonwealth of PA, DEP". Include DEP code number on check. I understand DEP will not begin review of my project unless it receives the fee and determines the fee is correct. If the fee is incorrect, DEP will return my check or money order, send me an invoice for the correct amount. I understand DEP review will NOT begin until I have submitted the correct fee.

☐ I request to be exempt from the DEP planning module review fee because this planning module creates **only** one new lot and is the **only** lot subdivided from a parcel of land as that land existed on December 14, 1995. I realize that subdivision of a second lot from this parcel of land shall disqualify me from this review fee exemption. I am furnishing the following deed reference information in support of my fee exemption.

County Recorder of Deeds for _____ County, Pennsylvania

Deed Volume _____ Book Number _____

Page Number _____ Date Recorded _____

R. REVIEW FEE (continued)

Formula:

1. For a new collection system (with or without a Clean Streams Law Permit), a collection system extension, or individual tap-ins to an existing collection system use this formula.

   #42 Lots (or EDUs) X $50.00 = $ 2,100

   The fee is based upon:

   - The number of lots created or number of EDUs whichever is higher.
   - For community sewer system projects, one EDU is equal to a sewage flow of 400 gallons per day.

2. For a surface or subsurface discharge system, use the appropriate one of these formulae.

   A. A new surface discharge greater than 2000 gpd will use a flat fee:

   $ 1,500 per submittal (non-municipal)
   $ 500 per submittal (municipal)

   B. An increase in an existing surface discharge will use:

   #_____ Lots (or EDUs) X $35.00 = $ _____

   to a maximum of $ 1,500 per submittal (non-municipal) or $ 500 per submittal (municipal)

   The fee is based upon:

   - The number of lots created or number of EDUs whichever is higher.
   - For community sewage system projects one EDU is equal to a sewage flow of 400 gallons per day.
   - For non-single family residential projects, EDUs are calculated using projected population figures

   C. A sub-surface discharge system that requires a permit under The Clean Streams Law will use a flat fee:

   $ 1,500 per submittal (non-municipal)
   $ 500 per submittal (municipal)

WATER WILLINGNESS TO SERVE NOTIFICATION

HRG

The York Water Company

"That good York water"
SINCE 1816

July 23, 2025

Erica Luongo, PE
Assistant Project Manager
Herbert, Rowland & Grubic, Inc.

via email: eluongo@hrg-inc.com

Reference: Water Availability Letter
Proposed Lower Windsor Sanitary Sewer Extension
Lower Windsor Township, York County, PA

In response to your inquiry, we wish to advise that The York Water Company currently provides potable water service to the Margaretta Mobile Home Park community.

Additionally, The York Water Company is currently able to provide potable water service to the properties along the proposed wastewater force main route that are not already served and that request service, as described in the Planning Module.

Please note that the extension of water service is contingent upon our receipt of proper application. Also note that this general statement concerning water service is not a declaration or guarantee regarding the available water flow rate or pressure. On-site and/or off-site improvements to The York Water Company's facilities may be required to provide water service.

Sincerely,

Mark S. Snyder, P.E.
Vice President - Engineering
717-718-2977
marks@yorkwater.com

PLOT PLAN

HRG

PLAN VIEW

SCALE: 1" = 150'

HORIZ: 30' 15' 0' 30'

VERT: 3' 1.5' 0' 3'

SCALE IN FEET

HRG

HERBERT, ROWLAND & GRUBIC, INC.
96 SOUTH GEORGE STREET
SUITE 300
YORK, PA 17401
717.893.2636 | hrg-inc.com

PROFESSIONAL SEAL:

LOWER WINDSOR TOWNSHIP SANITARY

SEWER EXTENSION PROJECT

THE YORK WATER COMPANY
130 E MARKET ST
YORK, PENNSYLVANIA 17403

LOWER WINDSOR TOWNSHIP | YORK COUNTY | PENNSYLVANIA

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		

HRG PROJECT NUMBER:	005887.0447
PLAN DATE:	MAY 2025
DRAWING SCALE:	AS NOTED
PROJ. MANAGER:	JJM

SHEET TITLE:

PLOT PLAN

SHEET:

1 | 1

PROJECT NARRATIVE

Herbert, Rowland & Grubic, Inc.
96 South George Street, Suite 300
York, PA 17401
717.893.2636
www.hrg-inc.com

PROJECT NARRATIVE

LOWER WINDSOR TOWNSHIP SEWER EXTENSION

The York Water Company

HRG Project Number: 005887.0447

September 2025

The York Water Company (YWC) is constructing a new submersible duplex pump station and force main to serve the Margaretta Mobile Home Park (MHP) and residences along Furnace Road, Prayer Mission Road, and East Prospect Road in Lower Windsor Township, York County, PA. The proposed pump station will allow the owners of the Margaretta MHP property to decommission the existing Margaretta MHP Wastewater Treatment Plant (WWTP), which discharges under NPDES Permit No. PA0042528 while continuing to serve the MHP property. The system is designed to allow for additional extensions, which will be submitted as separate planning modules prior to construction of those extensions.

A 4-inch DR-11 HDPE force main will be installed crossing under Cabin Creek and to the York Water Company's East Prospect Sewage Treatment Plant (STP) located off of E Prospect Road in Lower Windsor Township. All flow connected to the force main will be conveyed to a proposed manhole at the influent of the existing East Prospect STP, discharging under NPDES Permit No. PA0084565.

This extension will add 33 Equivalent Dwelling Units (EDUs) to the flows received at the sewage treatment plant. The EDU value was derived by using the maximum day flow from the Margaretta MHP WWTP DMR data, which was 12,900 gallons per day (gpd), and dividing by 275 gpd/EDU to get the 33 EDUs. The 275 gpd/EDU is due to Lower Windsor Township having approximately 2.75 persons per equivalent dwelling unit (EDU), resulting in 275 gpd per EDU when assuming 100 gpd per person. The pump station has capacity for an additional currently vacant lots that may be filled at the MHP.

There is an opportunity for the single homes to connect along the force main route, but they will not be required to connect. The connection of the existing units along the route will require the use of grinder pumps and the proposed system is designed for those connections. Should all the homes along the route be connected, there would be an additional 3,300 gpd or 9 additional EDUs, assuming 275 gpd per EDU and 12 potential single family home connections. This planning module is seeking approval for 42 EDUs, including the 33 EDUs from the Mobile Home Park and the 9 EDUs for the potential future connections along Furnace Road and Prayer Mission Road.

Since the force main discharges directly to the STP, there will be no proposed flows going into an existing collection or conveyance system. Attached to this project narrative is a general map showing the path of sewage to the treatment facility.

The average daily wastewater flow from the Lower Windsor Township Sewer Extension to the York Water Company's East Prospect STP is anticipated to increase by 16,200 gpd. Based on the NPDES Permit, the existing East Prospect STP has an average annual design flow of 0.175 MGD and a hydraulic capacity of 0.210 MGD. The average daily flow from the past 5-years of Discharge Monitoring Report (DMR) data is approximentally 0.057 MGD. The proposed flow, 0.0162 MGD, will increase the flow to an average daily flow of 0.0732 MGD, which does not show exceedance of the average annual design flow or the hydraulic capacity.

According to the National Wetlands Inventory (NWI) Mapping and a field delineation of the project area, one palustrine wetland areas was identified, the Cabon Creek, therefore permits will be needed for the stream crossing disturbances. There is no bog turtles present and the necessary permit applications for the wetlands and stream crossings will be submitted to PA DEP in June.

In accordance with Chesapeake Bay Tributary Strategy, potential nitrogen and phosphorus loadings to the E Prospect STP from the sewer extension are attached to this project narrative. Concentrations of 40 mg/L for total nitrogen and 7 mg/L for total phosphorus were assumed (Metcalf & Eddy). Using 0.0162 MGD, the loadings for total nitrogen and total phosphorus would be 5.40 lbs/day and 0.95 lbs/day, respectively. The nutrient capacity determination present in Section I, Part 4, does not account for the additional offsets that will be achieved by the decommissioning of the existing Margaretta MHP WWTP. When YWC renews there NPDES Permit for the East Prospect STP, YWC will request the offsets at that time.

Table 3-15
Typical composition of untreated domestic wastewater

Contaminants	Unit	Concentration[a] Low strength	Medium strength	High strength
Solids, total (TS)	mg/L	390	720	1230
Dissolved, total (TDS)	mg/L	270	500	860
Fixed	mg/L	160	300	520
Volatile	mg/L	110	200	340
Suspended solids, total (TSS)	mg/L	120	210	400
Fixed	mg/L	25	50	85
Volatile	mg/L	95	160	315
Settleable solids	mL/L	5	10	20
Biochemical oxygen demand, 5-d, 20°C (BOD_5, 20°C)	mg/L	110	190	350
Total organic carbon (TOC)	mg/L	80	140	260
Chemical oxygen demand (COD)	mg/L	250	430	800
Nitrogen (total as N)	mg/L	20	40	70
Organic	mg/L	8	15	25
Free ammonia	mg/L	12	25	45
Nitrites	mg/L	0	0	0
Nitrates	mg/L	0	0	0
Phosphorus (total as P)	mg/L	4	7	12
Organic	mg/L	1	2	4
Inorganic	mg/L	3	5	10
Chlorides[b]	mg/L	30	50	90
Sulfate[b]	mg/L	20	30	50
Oil and grease	mg/L	50	90	100
Volatile organic compounds (VOCs)	mg/L	<100	100–400	>400
Total coliform	No./100 mL	10^6–10^8	10^7–10^9	10^7–10^{10}
Fecal coliform	No./100 mL	10^3–10^5	10^4–10^6	10^5–10^8
Cryptosporidium oocysts	No./100 mL	10^{-1}–10^0	10^{-1}–10^1	10^{-1}–10^2
Giardia lamblia cysts	No./100 mL	10^{-1}–10^1	10^{-1}–10^2	10^{-1}–10^3

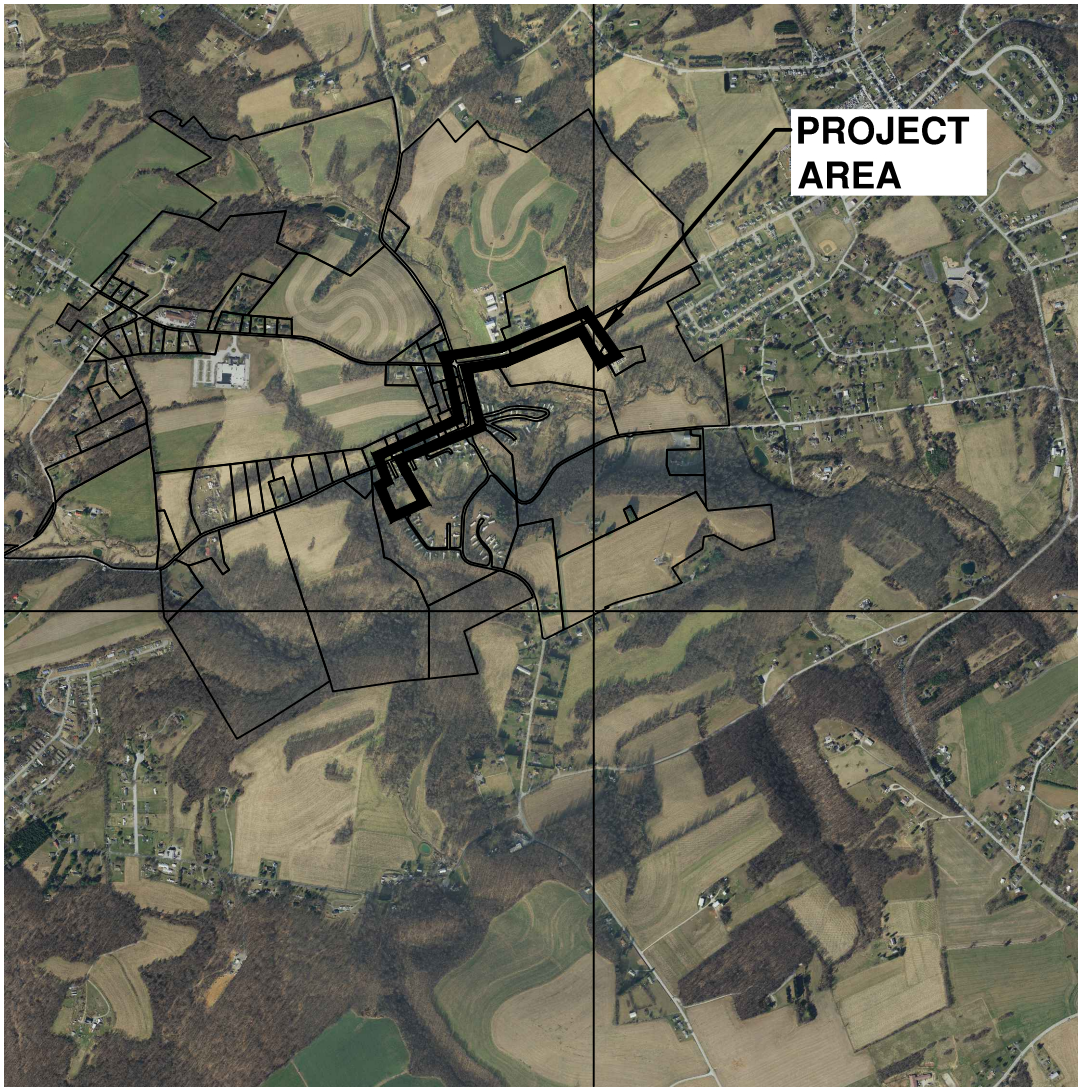
[a] Low strength is based on an approximate wastewater flowrate of 750 L/capita·d (200 gal/capita·d). Medium strength is based on an approximate wastewater flowrate of 460 L/capita·d (120 gal/capita·d). High strength is based on an approximate wastewater flowrate of 240 L/capita·d (60 gal/capita·d).

[b] Values should be increased by amount of constituent present in domestic water supply.

Note: mg/L = g/m^3.

PROJECT LOCATION & ZONING MAP

HRG



LOCATION MAP

GRAPHIC SCALE

2,000' 1,000' 0' 2,000'

SCALE: 1"= 2,000'

PROJECT #:	005887.0447
DATE:	JUNE 2025
SCALE:	AS NOTED
PM:	JJM
SHEET: 1	1

LOWER WINDSOR TOWNSHIP SANITARY SEWER EXTENSION PROJECT FOR THE YORK WATER PROJECT

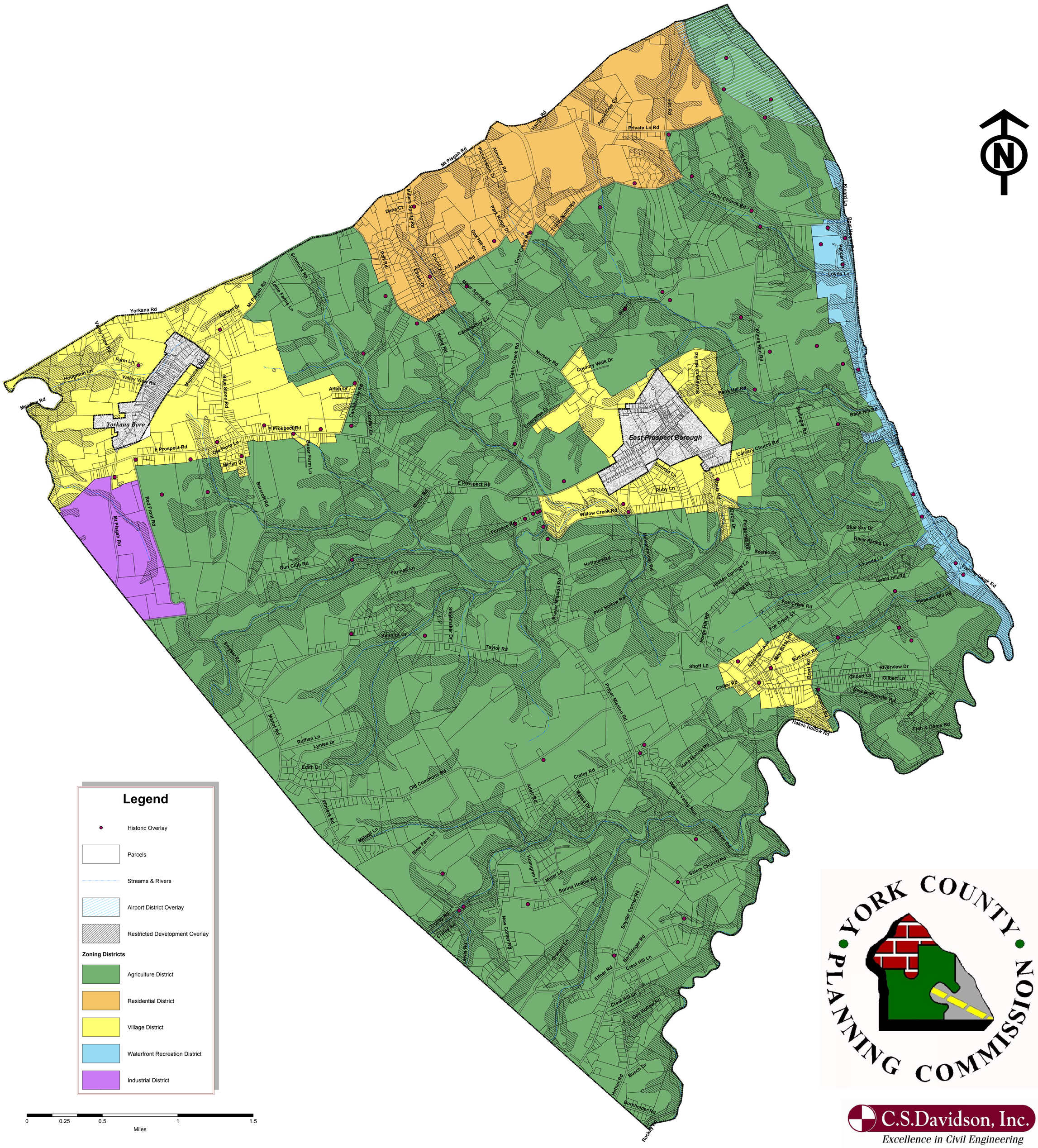
LOWER WINDSOR TOWNSHIP YORK COUNTY PENNSYLVANIA

HERBERT, ROWLAND & GRUBIC, INC.
96 SOUTH GEORGE STREET
SUITE 300
YORK, PA 17401
717.893.2636 | hrg-inc.com

LOWER WINDSOR TOWNSHIP

York County, Pennsylvania

ZONING MAP (09/15/11)



Base Map-York County Planning Commision

4/3/03-Zoning map.mxd

ALTERNATIVE SEWAGE FACILITIES ANALYSIS

HRG

Herbert, Rowland & Grubic, Inc.
96 South George Street, Suite 300
York, PA 17401
717.893.2636
www.hrg-inc.com

ALTERNATIVE SEWAGE FACILITIES ANALYSIS

LOWER WINDSOR TOWNSHIP SEWER EXTENSION

The York Water Company

HRG Project Number: 005887.0447

September 2025

The York Water Company (YWC) is constructing a new submersible duplex pump station and force main to serve the Margaretta Mobile Home Park (MHP) and residences along Furnace Road, Prayer Mission Road, and East Prospect Road in Lower Windsor Township, York County, PA. The proposed pump station will allow the owners of the Margaretta MHP property to decommission the existing Margaretta MHP Wastewater Treatment Plant (WWTP), which discharges under NPDES Permit No. PA0042528 while continuing to serve the MHP. The system is designed to allow for additional extensions, which will be submitted as separate planning modules prior to construction of those extensions. The additional future extensions are detailed later in this analysis.

A 4-inch DR-11 HDPE force main will be installed crossing under the Cabin Creek and to the York Water Company's East Prospect Sewage Treatment Plant (STP) located off of E Prospect Road in Lower Windsor Township. All flow connected to the force main will be conveyed to a proposed manhole at the influent of the existing East Prospect STP, discharging under NPDES Permit No. PA0084565.

This extension will add 33 Equivalent Dwelling Units (EDUs) to the flows received at the sewage treatment plant. The EDU value was derived by using the maximum day flow from the Margaretta MHP WWTP DMR data, which was 12,900 gallons per day (gpd), and dividing by 275 gpd/EDU to get the 33 EDUs. The 275 gpd/EDU is due to Lower Windsor Township having approximately 2.75 persons per equivalent dwelling unit (EDU), resulting in 275 gpd per EDU when assuming 100 gpd per person.

There is an opportunity for the single homes to connect along the force main route but they will not be required to connect. The connection of the existing units along the route will require the use of grinder pumps and the proposed system is designed for those connections. Should all the homes along the route be connected, there would be an additional 3,300 gpd or 9 additional EDUs, assuming 275 gpd per EDU and 12 potential single family home connections. This planning module is seeking approval for 42 EDUs, including the 33 EDUs from the Mobile Home Park and the 9 EDUs for the potential future connections along Furnace Road and Prayer Mission Road.

As listed in Section G of the Sewage Facilities Planning Module form, this includes 13 total connections, one connection being the proposed pump station and the other 12 connections being the potential future grinder pump connections.

Since the force main discharges directly to the STP, there will be no proposed flows going into an existing collection or conveyance system.

The average daily wastewater flow from the Lower Windsor Township Sewer Extension to the York Water Company's East Prospect STP is anticipated to increase by 16,200 gpd. Based on the NPDES Permit submission in December 2023, the existing East Prospect STP has an Average Annual Flow of 0.175 MGD and a Hydraulic Capacity of 0.210 MGD. The proposed flow, 0.0162 MGD, will increase the flow to an Average Annual Flow of 0.1912 MGD, which does not show exceedance of the hydraulic capacity.

The proposed project complies with the Lower Windsor Township's Subdivision and Land Development Ordinance. The project area is zoned as "Agriculture District" and is currently existing farmland, woodlands, and farm buildings. Designated land uses adjacent to the site are zoned "Village District" and the York Water Company sewer service is provided to the area surrounding the Margaretta MHP site.

Due to the proximity and capacity in the existing STP and the decommissioning of the Margaretta MHP Wastewater Treatment Plant, all options investigated for the Project included conveying the wastewater to the existing East Prospect STP. A Feasibility Study was conducted for the various routes and alternatives for connection. The following existing developments within close proximity to the current Lower Windsor service territory were included in the evaluation: Margaretta Mobile Home Park (MHP) located on Furnace Road and Prayer Mission Road, an existing commercial facility located on E. Prospect Road (State Route 124) approximately 0.80 miles from the current East Prospect STP, an additional commercial and residential structures located on East Prospect Road, Prayer Mission Road and adjacent to the Margaretta MHP, and Log Cabin MHP.

Due to the topography of the MHP in reference to the East Prospect STP, a pump station is required, and the existing service lines will be connected to a new pump station. Minimal adjustment to the existing sewer lines will take place in order to facilitate connection to the new pump station.

The force main is proposed to be routed on Prayer Mission Road to East Prospect Road until reaching the East Prospect STP. The following force main alternatives were considered for extending sanitary sewer from the mobile home park to the East Prospect STP:

- Alternative FM-1: Force Main Routed East through MHP Property to Prayer Mission Road
- Alternative FM-2: Force Main Routed North to Furnace Road

An alternative was considered for routing the force main along Cabin Creek to the East Prospect STP but this option is considered technically difficult due to multiple easements needed and being within the floodplain or floodway for a large portion of the force main alignment.

Alternative FM-1 includes a pump station located approximately 50 feet northeast of the existing Margaretta WWTP and a force main to be routed through the MHP Property to Prayer Mission Road. From Prayer Mission Road, the force main will head eastward on East Prospect Road and discharge into an existing manhole at the East Prospect STP. YWC has a blanket easement for the Margaretta MHP property, which includes the pump station area and the approximately 850 feet of force main through the MHP property. With this alternative, the force main will need to cross Cabin Creek once before reaching Prayer Mission Road along with a creek crossing on Prayer Mission Road and East Prospect Road.

Alternative FM-2 includes a new pump station located approximately 50 feet northeast of the existing MHP WWTP and a new force main routed north to 1st Street, continuing down Furnace Road to Prayer Mission Road. From Prayer Mission Road, the force main will head eastward on East Prospect Road and discharge into an existing manhole at the East Prospect STP. As mentioned above, YWC has a blanket easement across the MHP property. In this alternative, Cabin Creek will be crossed once before reaching the roadway along with the creek crossing on East Prospect Road.

Ultimately, Alternative FM-2 was chosen due to there being one less creek crossing, allowing the force main to mainly be within the roadway, allowing for easier maintenance, and gives additional homes an opportunity to connect to the force main via grinder pumps.

SECTION 4: SEWAGE FACILITIES PLANNING MODULE COMPONENT 4A – MUNICIPAL PLANNING AGENCY REVIEW

HRG

3850-FM-BCW0362A 6/2016

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code #:

SEWAGE FACILITIES PLANNING MODULE
COMPONENT 4A - MUNICIPAL PLANNING AGENCY REVIEW

Note to Project Sponsor: To expedite the review of your proposal, one copy of your completed planning module package and one copy of this *Planning Agency Review Component* should be sent to the local municipal planning agency for their comments.

SECTION A. PROJECT NAME (See Section A of instructions)

Project Name
Lower Windsor Township Sanitary Sewer Extension Project

SECTION B. REVIEW SCHEDULE (See Section B of instructions)

1. Date plan received by municipal planning agency 7.31.2025
2. Date review completed by agency 8.28.2025

SECTION C. AGENCY REVIEW (See Section C of instructions)

Yes	No		
☑	☐	1.	Is there a municipal comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101, *et seq.*)?
☑	☐	2.	Is this proposal consistent with the comprehensive plan for land use? If no, describe the inconsistencies
☑	☐	3.	Is this proposal consistent with the use, development, and protection of water resources? If no, describe the inconsistencies
☑	☐	4.	Is this proposal consistent with municipal land use planning relative to Prime Agricultural Land Preservation?
☐	☐	5.	Does this project propose encroachments, obstructions, or dams that will affect wetlands? If yes, describe impacts unclear - there are adjacent wetlands.
☐	☑	6.	Will any known historical or archaeological resources be impacted by this project? If yes, describe impacts
☐	☑	7.	Will any known endangered or threatened species of plant or animal be impacted by this project? If yes, describe impacts
☑	☐	8.	Is there a municipal zoning ordinance?
☑	☐	9.	Is this proposal consistent with the ordinance? If no, describe the inconsistencies
☐	☑	10.	Does the proposal require a change or variance to an existing comprehensive plan or zoning ordinance?
☑	☐	11.	Have all applicable zoning approvals been obtained?
☑	☐	12.	Is there a municipal subdivision and land development ordinance?

SECTION C. AGENCY REVIEW (continued)

Yes	No		
☑	☐	13.	Is this proposal consistent with the ordinance? If no, describe the inconsistencies _____
☑	☐	14.	Is this plan consistent with the municipal Official Sewage Facilities Plan? If no, describe the inconsistencies _____
☑	☐	15.	Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality? If yes, describe Expansion of Village dist. is proposed & would be helped by public utilities.
☐	☑	16.	Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
☐	☐		If yes, is the proposed waiver consistent with applicable ordinances? If no, describe the inconsistencies

17. Name, title and signature of planning agency staff member completing this section:

Name: MONICA LOVE

Title: ZONING & CODES ENFORCEMENT OFFICER

Signature: Monica Love

Date: 09.03.2025

Name of Municipal Planning Agency: LOWER WINDSOR TWP PLANNING COMM.

Address 2425 CRALEY RD WRIGHTSVILLE PA 17368

Telephone Number: 717-244-6813

SECTION D. ADDITIONAL COMMENTS (See Section D of instructions)

This component does not limit municipal planning agencies from making additional comments concerning the relevancy of the proposed plan to other plans or ordinances. If additional comments are needed, attach additional sheets.

The planning agency must complete this component within 60 days.

This component and any additional comments are to be returned to the applicant.

RE #5, The adjacent wetlands will have to be addressed at the time of construction. E/O AVOIDED.

LOWER WINDSOR PLANNING COMMISSION REQUESTS A DETAILED PLAN FOR THE ABANDONMENT OF THE EXISTING TREATMENT FACILITY.

HISTORIC STRUCTURES ON THE NORTH SIDE OF FURNACE RD MUST BE PROTECTED.

SECTION 5: SEWAGE FACILITIES PLANNING MODULE COMPONENT 4B – COUNTY PLANNING AGENCY REVIEW

HRG

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code #:
A3-67937-337-3

SEWAGE FACILITIES PLANNING MODULE
COMPONENT 4B - COUNTY PLANNING AGENCY REVIEW

(or Planning Agency with Areawide Jurisdiction)

Note to Project Sponsor: To expedite the review of your proposal, one copy of your completed planning package and one copy of this *Planning Agency Review Component* should be sent to the county planning agency or planning agency with areawide jurisdiction for their comments.

SECTION A. PROJECT NAME (See Section A of instructions)

Project Name

Lower Windsor Township Sanitary Sewer Extension Project

SECTION B. REVIEW SCHEDULE (See Section B of instructions)

1. Date plan received by county planning agency *8/5/2025*
2. Date plan received by planning agency with areawide jurisdiction _____

   Agency name _____
3. Date review completed by agency *9/04/2025*

SECTION C. AGENCY REVIEW (See Section C of instructions)

Yes	No		
☒	☐	1.	Is there a county or areawide comprehensive plan adopted under the Municipalities Planning Code (53 P.S. 10101 *et seq.*)?
☒	☐	2.	Is this proposal consistent with the comprehensive plan for land use?
☒	☐	3.	Does this proposal meet the goals and objectives of the plan? If no, describe goals and objectives that are not met _____
☒	☐	4.	Is this proposal consistent with the use, development, and protection of water resources? If no, describe inconsistency _____
☒	☐	5.	Is this proposal consistent with the county or areawide comprehensive land use planning relative to Prime Agricultural Land Preservation? If no, describe inconsistencies: _____
☒	☐	6.	Does this project propose encroachments, obstructions, or dams that will affect wetlands? If yes, describe impact *Refer to plot plan.*
☐	☒	7.	Will any known historical or archeological resources be impacted by this project? If yes, describe impacts *None of which the YCPC is aware.*
☐	☒	8.	Will any known endangered or threatened species of plant or animal be impacted by the development project? If yes, describe impacts *None of which the YCPC is aware. See Additional Comments.*
☐	☒	9.	Is there a county or areawide zoning ordinance?
☐ N/A	☐	10.	Does this proposal meet the zoning requirements of the ordinance? If no, describe inconsistencies _____

SECTION C. AGENCY REVIEW (continued)

Yes	No		
☐ N/A	☐	11.	Have all applicable zoning approvals been obtained?
☒	☐	12.	Is there a county or areawide subdivision and land development ordinance?
☐ N/A	☐	13.	Does this proposal meet the requirements of the ordinance?
			If no, describe which requirements are not met *Not applicable in Lower Windsor Township*
☐ N/A	☐	14.	Is this proposal consistent with the municipal Official Sewage Facilities Plan?
			If no, describe inconsistency *Copy not available in this office*
☐	☒	15.	Are there any wastewater disposal needs in the area adjacent to this proposal that should be considered by the municipality?
			If yes, describe *None of which the YCPC is aware.*
☐	☒	16.	Has a waiver of the sewage facilities planning requirements been requested for the residual tract of this subdivision?
☐	☐		If yes, is the proposed waiver consistent with applicable ordinances.
			If no, describe the inconsistencies
☒	☐	17.	Does the county have a stormwater management plan as required by the Stormwater Management Act?
☒	☐		If yes, will this project plan require the implementation of storm water management measures?
		18.	Name, Title and signature of person completing this section:
			Name: *Jesse King*
			Title: *Senior Planner*
			Signature:
			Date: *9/04/2025*
			Name of County or Areawide Planning Agency: *York County Planning Commission*
			Address: *28 East Market Street, York, PA 17401*
			Telephone Number: *(717) 771-9870*

SECTION D. ADDITIONAL COMMENTS (See Section D of instructions)

This component does not limit county planning agencies from making additional comments concerning the relevancy of the proposed plan to other plans or ordinances. If additional comments are needed, attach additional sheets.

The county planning agency must complete this component within 60 days.

This component and any additional comments are to be returned to the applicant.

ADDITIONAL COMMENTS

Section C.8.

Will any known endangered or threatened species of plant or animal be impacted by the development project?

The YCPC is unaware of any known or threatened species of plant or animal which may be impacted by the development project. However, both the PA Fish and Boat Commission and the U.S. Fish and Wildlife Service noted "Potential Impact" to an endangered or threatened species in their responses.

Section D.

The proposal is consistent with the York County Comprehensive Plan; However, YCPC staff recommend that the 9 additional EDUs noted in the project narrative as optional connections for the homes along the force main route should be restricted to existing development with on-site septic system issues. New development and existing development with functioning on-site systems should not be permitted to connect.

SECTION 6: REGULATORY AGENCY APPROVAL/NOTIFICATIONS

Pennsylvania State Historic Preservation Office
PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION

February 10, 2025

Sent Via PA-SHARE

RE: ER Project # 2025PR00693.001, Lower Windsor Township Sanitary Sewer Extension Project, Department of Environmental Protection, Lower Windsor Township, York County

Dear Submitter,

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Above Ground Resources
No Above Ground Concerns - Environmental Review - No Effect - Above Ground

Based on the information received and available within our files, it is our opinion that the proposed project will have No Effect on above ground historic properties, including historic buildings, districts, structures, and/or objects, should they exist. Should the scope of the project change and/or should you be made aware of historic property concerns, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning above ground resources, please contact Sara-Ladd Manley at samanley@pa.gov.

Archaeological Resources
No Archaeological Concerns - Environmental Review - No Effect - Archaeological

Based on the information received and available in our files, in our opinion, the proposed project should have No Effect on archaeological resources. Should the scope of the project be amended to include additional ground-disturbing activity and/or should you be made aware of historic property concerns regarding archaeological resources, you will need to reinitiate consultation with our office using PA-SHARE.

For questions concerning archaeological resources, please contact Sara-Ladd Manley at samanley@pa.gov.

Sincerely,

Barbara Frederick
Environmental Review Division Manager

1. PROJECT INFORMATION

Project Name: **Lower Windsor Township Sanitary Sewer Extension Project 005887.0447**
Date of Review: **5/1/2025 08:49:48 AM**
Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Other**
Project Area: **4.03 acres**
County(s): **York**
Township/Municipality(s): **Lower Windsor Township**
ZIP Code:
Quadrangle Name(s): **RED LION**
Watersheds HUC 8: **Lower Susquehanna**
Watersheds HUC 12: **Cabin Creek-Susquehanna River**
Decimal Degrees: **39.965561, -76.535140**
Degrees Minutes Seconds: **39° 57' 56.188" N, 76° 32' 6.5037" W**

2. SEARCH RESULTS

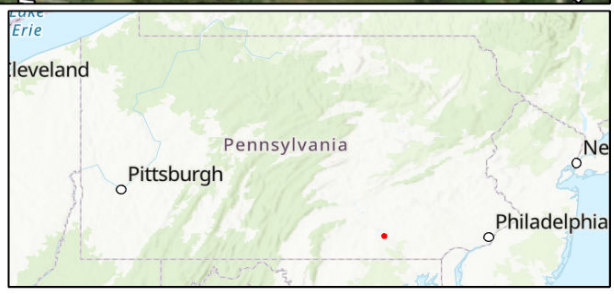
Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	**Potential Impact**	**FURTHER REVIEW IS REQUIRED, See Agency Response**
U.S. Fish and Wildlife Service	**Potential Impact**	**MORE INFORMATION REQUIRED, See Agency Response**

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

Lower Windsor Township Sanitary Sewer Extension Project 005887.0447

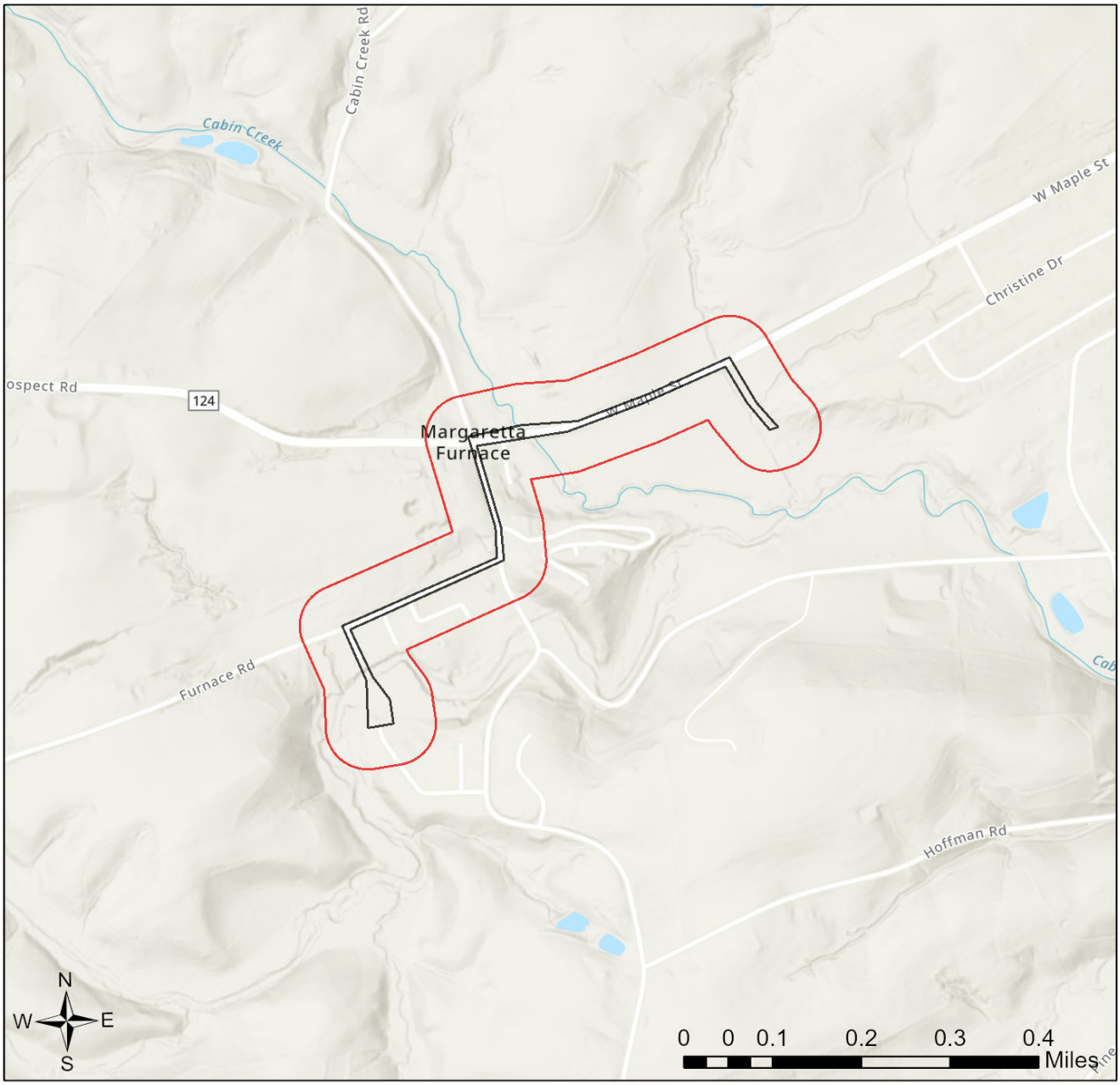
Buffered Project Boundary

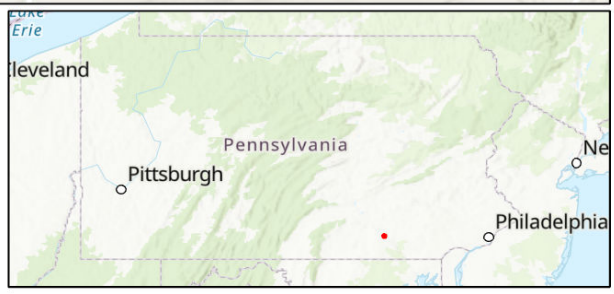
Project Boundary



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Lower Windsor Township Sanitary Sewer Extension Project 005887.0447





Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
Sources: Esri, Maxar, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA,

RESPONSE TO QUESTION(S) ASKED

Q1: Accurately describe what is known about wetland presence in the project area or on the land parcel by selecting ONE of the following. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.
Your answer is: Someone qualified to identify and delineate wetlands (holding a natural resource degree or equivalent work experience) has investigated the site, and determined that wetlands ARE located in or within 300 feet of the project area. (A written report from the wetland specialist, and detailed project maps should document this.)

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jursidictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission
RESPONSE:
No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources
RESPONSE:
No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission
RESPONSE:
Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service
RESPONSE:

Information Request: Conduct a Bog Turtle Habitat (Phase 1) Survey in accordance with USFWS Guidelines for Bog Turtle Surveys (April 2020). Evaluate all wetlands within 300 feet of the project area, which includes all areas that will be impacted by earth disturbance or project features (e.g., roads, structures, utility lines, lawns, detention basins, staging areas, etc.). IF THE PHASE 1 SURVEY IS DONE BY A QUALIFIED BOG TURTLE SURVEYOR (see Pennsylvania Qualified Surveyors | FWS.gov): 1) Send positive results to USFWS for concurrence, along with a project description documenting how impacts will be avoided. OR, conduct a Phase 2 survey and send Phase 1 and 2 results to USFWS for concurrence. 2) Send a courtesy copy of negative results to USFWS (label as "Negative Phase 1 Survey Results by Qualified Bog Turtle Surveyor: USFWS Courtesy Copy"). USFWS approval of negative results is not necessary when a qualified surveyor does the survey in full accordance with USFWS guidelines. IF THE PHASE 1 SURVEY IS NOT DONE BY A QUALIFIED SURVEYOR: Send ALL Phase 1 results to USFWS for concurrence, and if potential habitat is found, also send a project description documenting how impacts will be avoided.
As a qualified bog turtle surveyor, I Quillyn Bickley (name) certify that I conducted a Phase 1 survey of all wetlands in and within 300 feet of the project area on May 9, 2025 (date) and determined that bog turtle habitat is absent.
Quillyn Bickley (Signature)

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found here. This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).
*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:
____Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
____A map with the project boundary and/or a basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
In addition to the materials listed above, USFWS REQUIRES the following
____**SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.
____Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
____Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at https://conservationexplorer.dcnr.pa.gov/content/resources.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Fish and Boat Commission
Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

PA Game Commission
Bureau of Wildlife Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Daria Zwart
Company/Business Name: Herbert, Rowland & Grubic, Inc.
Address: 369 E. Park Drive
City, State, Zip: Harrisburg
Phone:(717) 564-1121 Fax:( )
Email: dzwart@hrg-inc.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Daria Zwart
applicant/project proponent signature

05/01/2025
date

pennsylvania
FISH AND BOAT COMMISSION

May 19, 2025

IN REPLY REFER TO
SIR# 61469

Herbert, Rowland & Grubic, Inc.
Daria Zwart
369 East Park Drive
Harrisburg, Pennsylvania 17111

RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species
PNDI Search No. 833747_1
Lower Windsor Township Sanitary Sewer Extension Project 005887.0447
Lower Windsor Township: YORK County

Dear Daria Zwart:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search "potential conflict" or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish and Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish and Boat Code (Chapter 75), or the Wildlife Code.

An element occurrence of a rare, candidate, threatened, or endangered species under our jurisdiction is known from the vicinity of the proposed project. However, given the nature of the proposed project, the immediate location, or the current status of the nearby element occurrence(s), no adverse impacts are expected to the species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

If you have any questions regarding this review, please contact Josh Brown at 814-359-5129 or joshubrown@pa.gov and refer to the SIR # 61469. Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

Christopher A. Urban, Chief
Natural Diversity Section

CAU/JRB/dn

HA File #PA25.60
PNDI #833747

Negative Phase 1 Survey Results by a Qualified Bog Turtle Surveyor:
USFWS Courtesy Copy

Bog Turtle (*Glyptemys muhlenbergii*) Phase I Habitat Assessment

Lower Windsor Township Sanitary Sewer Extension Project, Lower Windsor Township, York County, Pennsylvania

Submitted June 25, 2025

to

Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111

by

Quillyn Bickley and Robert T. Zappalorti

Herpetological Associates, Inc.
Plant and Wildlife Consultants
1745 Westwood Road
Wyomissing, PA 19610

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INTRODUCTION

Herpetological Associates, Inc. (HA) was contracted by HRG, Inc. to conduct a Bog Turtle (*Glyptemys muhlenbergii*) Phase I Habitat Assessment for the Lower Windsor Township Sanitary Sewer Extension Project. A search of the Pennsylvania Natural Diversity Inventory (PNDI) database resulted in a finding of "Potential Impact" to federally-protected species under the jurisdiction of the U.S. Fish and Wildlife Service (USFWS) for this project. The bog turtle conflict that is associated with this PNDI was cleared by a Qualified Bog Turtle Surveyor (QBTS) using the signature block under the USFWS Response on the PNDI receipt (PNDI #833747; **Appendix A**). This report is a courtesy copy and does not require USFWS review.

MATERIALS AND METHODS

LOCATION OF THE STUDY SITE

The project is located in Lower Windsor Township, York County, Pennsylvania at approximate coordinates 39.965561, -76.535140. The site can be found on the Red Lion U.S. Geological Survey (USGS) 7.5 minute quadrangle (**Figures 1 and 2**).

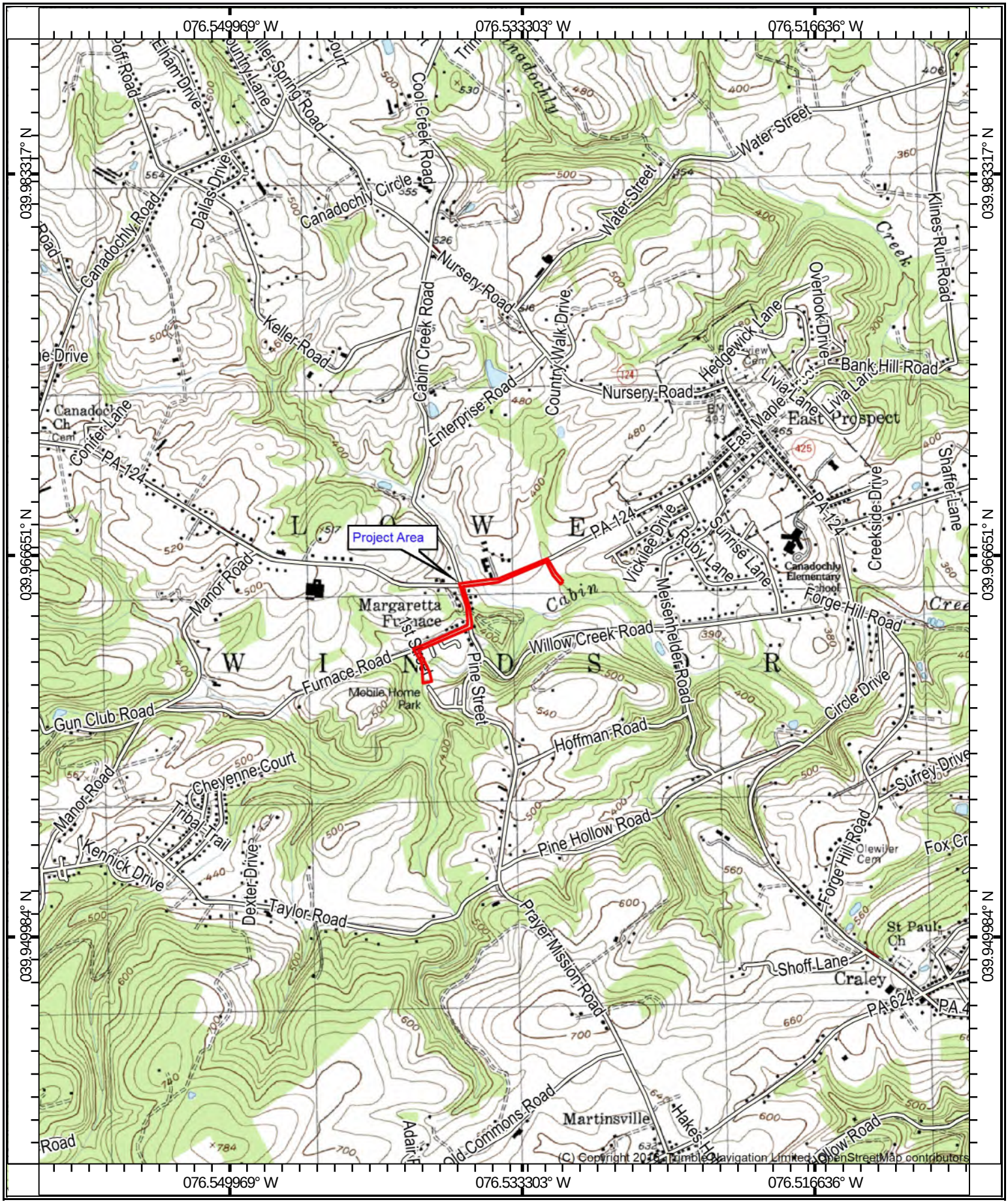
SURVEYORS

Quillyn Bickley (Pennsylvania Qualified Bog Turtle Surveyor [QBTS]) conducted the Phase I habitat evaluation.

HABITAT EVALUATION METHODS

HA reviews publicly available data as part of a preliminary desktop review of potential natural resources for the site, as well as wetland delineation maps that are developed specifically for the Project. Data includes information relating to soils; topography; waterways; floodplains; wetlands; and rare, threatened, and endangered species.

All wetlands are evaluated in the field by a QBTS. Each wetland is categorized using the *Classification of Wetlands and Deepwater Habitats of the United States* (Federal Geographic Data Committee 2013). Wetlands typically associated with bog turtles include Palustrine Emergent (PEM), Palustrine Shrub/Scrub (PSS), and Palustrine Forested (PFO) subtypes. Bog turtles inhabit unpolluted, open bogs, marshes, and wet meadows with shallow water and a soft, deep muddy substrate. Their habitat is usually vegetated with various sedges, cattail, jewelweed, skunk cabbage, red maple, and alders (Kiviat 1978; Herman 1994; U.S. Fish and Wildlife Service 2001; 2020a). This includes primarily PEM wetlands due to the requirements of the bog turtle for basking and egg incubation. However, wetlands with a PSS component are also commonly used, which may provide additional structure for cover and hibernation. Natural plant succession of some wetlands into a PFO community is also common, and although not ideal, bog turtles may persist, especially if open canopy breaks are present.



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Feet

Figure 1. USGS topographic map showing the approximate location of the project area.

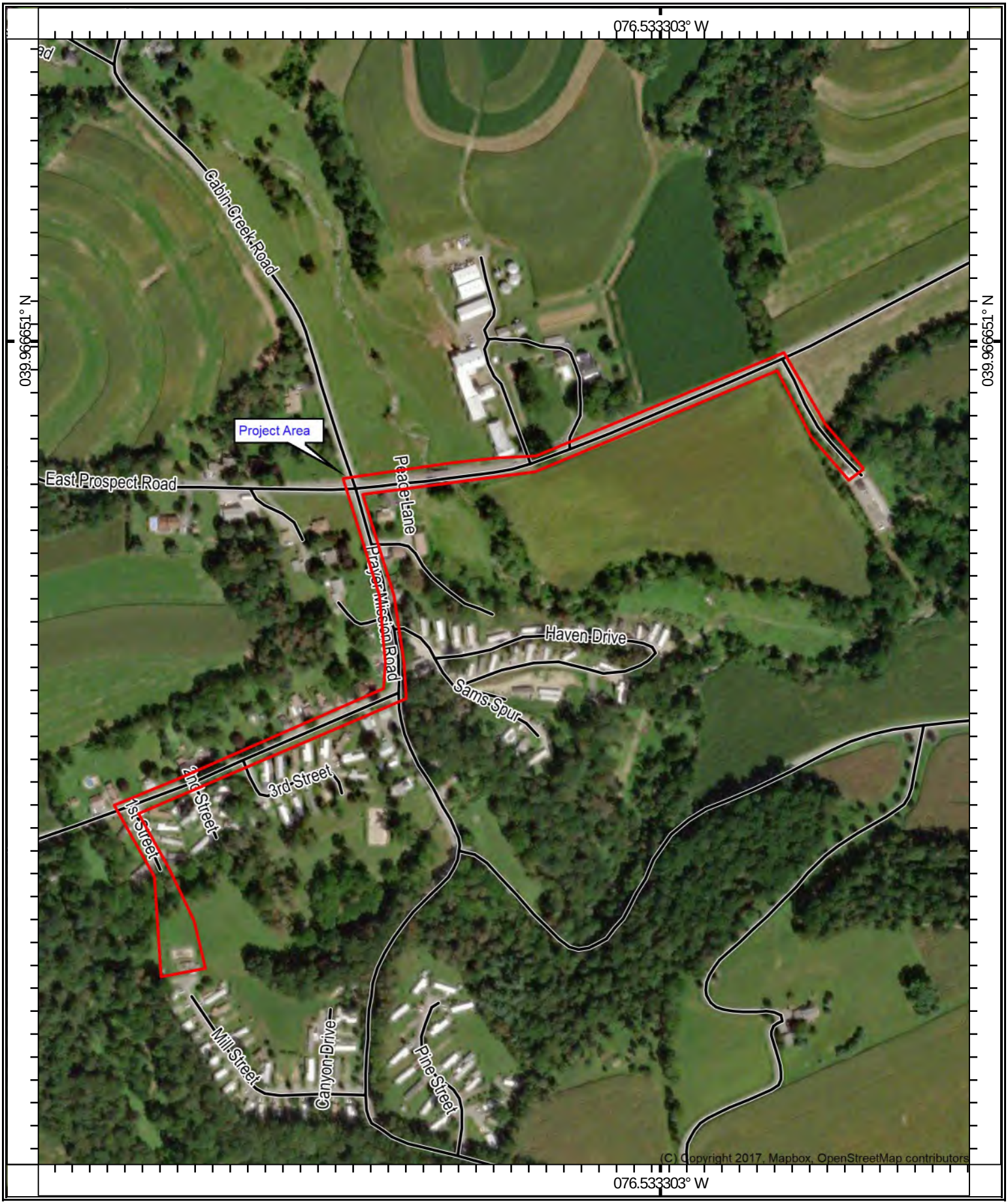

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Figure 2. Satellite imagery map showing the approximate location of the project area.

Due to the wide range of wetland types used, an experienced QBTS evaluates the existing features of each wetland for bog turtles. Three main components of each wetland are examined: hydrology, substrate, and vegetation.

1. Hydrology: A critical contribution to the hydrology of bog turtle habitats is the presence of springs. Springs that feed wetlands may be highly variable in their depth and quantity of water produced, and not all springs produce bog turtle habitat. Springs in bog turtle habitat maintain a relatively constant supply of water to the wetland, although wetlands may dry almost completely in drought years. Water produced from springs typically spreads through the wetland via shallow rivulets. Small puddles and ponding may also be present.

2. Substrate: Springs in bog turtle habitats typically result in the accumulation of deep, soft, organic substrate, which is commonly referred to as "muck". Muck is not associated with a particular soil type, but rather a soil consistency. For the purpose of this assessment, loose, wetland soil that can be probed to three inches or greater is defined as muck. Muck depth is measured by gently pressing a probing stick to the point of resistance, and is averaged across the wetland. "Non-mucky" soil refers to substrate that cannot be probed to three inches (0 to <3 inches deep). A percentage of a wetland may be defined as mucky, with the remainder defined as non-mucky.

3. Vegetation: Vegetation is often the most variable component of bog turtle habitat, both within a region and across the range of the bog turtle. As described above, typical plant communities within a bog turtle habitat include low-growing grasses and sedges that form hummocks, as can be found in PEM wetlands. However, natural succession of a PEM wetland into PSS and PFO wetlands may still provide suitable habitat for bog turtles if adequate canopy breaks are present. Even in poor vegetation types, bog turtles may persist for decades.

Wetlands are evaluated for the above components, and are compared to confirmed bog turtle habitat located elsewhere in eastern Pennsylvania. Habitat evaluations follow guidance from the *Bog Turtle* (Clemmys muhlenbergii), *Northern Population, Recovery Plan* (USFWS 2001), *Guidelines for Bog Turtle Surveys for the Northern Population Range: Phase 1 and 2 Surveys* (USFWS 2020a), and *Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range: Supplemental Information* (USFWS 2020b). Details on each evaluated wetland are recorded on the USFWS *Phase I Bog Turtle Habitat Survey Data Form For the Northern Population Range (revised April 29, 2020)*.

PROJECT AND SITE INFORMATION

PROJECT / PROPERTY NAME: Lower Windsor Township Sanitary Sewer Extension Project

PROJECT DESCRIPTION: The proposed project consists of the construction of a new conveyance system to connect the Margaretta Mobile Home Park to the existing East Prospect WWTP operated and maintained by York Water Company. In addition, the existing Margaretta Mobile Home Park treatment plant will be decommissioned.

WETLAND AND/OR STREAM IMPACTS: Project requires application for GP-5 for the utility stream/wetland crossings.

CURRENT LAND USE AND SETTING: The project area encompasses approximately 3,000 ft of linear distance within existing road right-of-ways, within a small residential area surrounded by large agricultural land use.

WATERSHED: The project area is associated with an Unnamed Tributary to Cabin Creek, which is within the Cabin Creek-Susquehanna River HUC 12 subwatershed (HUC code: 020503061704) and the Lower Susquehanna HUC 8 subbasin.

AREA INVESTIGATED: One delineated wetland (Wetland 1, within the project area) and one identified wetland (Wetland A, outside the project area) were investigated as part of the habitat assessment.

WETLAND INFORMATION

The wetland field investigation was performed by HRG, Inc. in April 2025. The investigation was conducted using the Routine On-Site Wetland Delineation Method described in the *Corps of Engineers Wetlands Delineation Manual*, Technical Report Y-87-1 (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont (Version 2.0)* (USACE, 2012). One wetland was delineated in the project area (**Appendix B** [see also **Table 1**]).

Table 1. Wetland Size and Location

Wetland ID	Wetland Size (acres)	Latitude (°N)	Longitude (°W)	Is the entire wetland within project area?
1	0.16	39.965610	76.535461	Partially within
A	0.5-1.0*	39.965080	76.535811	Entirely outside

*Estimated using USFWS data form size categories.

PHASE I SURVEY RESULTS

The Phase I survey was conducted on May 8, 2025. The investigation included one delineated wetland located partially within the project area and one off-site wetland within 300 feet. Details of the characteristics of these wetlands are provided in **Table 2**. Wetland photographs are found in **Appendix C** and the USFWS field data forms are presented in **Appendix D**.

Table 2. Summary of Phase I Survey Results

Wetland ID	Wetland Cowardin Classification* (Type and % of Total Wetland)		Extent of Mucky Soils (% w/in Wetland Type)	Soft ("Mucky") Substrate Depth w/in Type (inches)		Spring-fed Hydrology Present?	Potential Bog Turtle Habitat?
	Type*	%		Avg	Max		
1	PEM	100	0	n/a	n/a	No	No
A	PEM	100	0	n/a	n/a	No	No

*PEM= Palustrine Emergent; PSS=Palustrine Shrub/Scrub; PFO=Palustrine Forested

WETLAND EVALUATION

Bog turtle habitat includes three components, which include:

- Spring-fed hydrology that fans out through the wetland to form multiple shallow rivulets and small puddles;
- Deep, organic, mucky substrate that can be probed to a depth of at least three inches, but often exceeds six inches in depth;
- An emergent plant community that is composed of a diverse assemblage of herbaceous species, especially low-growing grasses and sedges.

Wetlands 1 and A lack all of the diagnostic characteristics of bog turtle habitat, and are therefore not considered potential habitat.

SUMMARY AND CONCLUSIONS

HA was contracted by HRG, Inc. to conduct a Bog Turtle (*Glyptemys muhlenbergii*) Phase I Habitat Assessment for the Lower Windsor Township Sanitary Sewer Extension Project, located in Lower Windsor Township, York County, Pennsylvania. The request for the survey was initiated by a search of the PNDI database, which indicated a "Potential Conflict" with bog turtle, a species that is regulated by the USFWS (PNDI #833747).

The Phase I investigation was conducted on May 8, 2025, which included one delineated wetland and one identified wetland. The results of the investigation indicated the absence of bog turtle habitat in these wetlands. The PNDI for the project was cleared via a signature by a QBTS in the USFWS Response section, and therefore a review of this report by USFWS is not required.

BOG TURTLE LIFE HISTORY

Description

The bog turtle is classified taxonomically into the class *Reptilia*, order *Testudines*, suborder *Thecophora*, family *Emydidae*, genus *Glyptemys* [*Clemmys*], and species *muhlenbergii* (Schoepff 1792; **Figures 3-4**). Conant and Collins (1991) describe this turtle as small, attaining an average carapace length of 7.5-9 centimeters (3-3.5 inches), with a maximum recorded length of 11.4 centimeters (4.5 inches). The carapace is moderately domed, rather long, and slightly keeled. The scutes are often fairly deeply incised by the concentric rings of the laminae, although in older animals the shell is often worn smooth through years of burrowing in mud. In specimens which do not have iron oxide or other deposits on the shell, a light "sun-burst" pattern can be seen on each scute of an otherwise brown shell. The plastron is large, and dark brown or black in color with light markings either irregularly or symmetrically arranged. The limbs are typically brown with orange or reddish beneath, and there is a conspicuous orange head blotch behind the tympanum.

Figure 3. A bog turtle from Chester County, PA.

Status

Pennsylvania Status - Endangered
Federal Status - Threatened

Range

Disjunct populations exist throughout the range of the bog turtle, occurring in 4 distinct areas (Conant and Collins, 1991). These separate populations occur in central New York; western Pennsylvania; eastern New York south to southern New Jersey and west to central Pennsylvania; and southern Virginia, south through western North Carolina, into extreme northern Georgia.

Habitat and Life History

Although rarely found far from water, the bog turtle is not a strong swimmer and may drown quickly if forced to stay in deep water; generally bog turtles are found wallowing in soft mud or swimming in shallow (several inches) streams and puddles. This turtle is omnivorous, and may feed on a variety of insects, earthworms, slugs, or berries. Loss of habitat through the direct destruction of wetlands, fragmentation of range as a result of long-term geologic factors (Carr, 1952), and

vegetative succession by wetland trees and invasive plants have all greatly impacted bog turtle populations.

Figure 4. A yearling bog turtle from Monroe County, PA.

Bog turtles generally do not move large distances and have relatively small home ranges. Not unlike other turtle species, males appear to have a larger home range than females (Lovich et al., 1992). In Pennsylvania, Ernst (1977) reports mean home range for males as 1.33 ha, and 1.26 ha for females. Chase, et al. (1989) is in agreement, but differences in mean home range between both sexes are larger and statistically significant for thread trailed specimens in Maryland: $\bar{x} = 0.176$ ha for males, $\bar{x} = 0.066$ ha for females. Distance traveled between locations of radiotracked bog turtles in North Carolina ranged 0-87 m ($\bar{x} = 24.3$ m) for males and 0-62 m ($\bar{x} = 15.8$ m) for females (Lovich, et al.,1992); rates of movements (distance/day) were also significantly larger for males. Movements and home range dimensions of bog turtles may be governed by the size of suitable habitat available to them.

Unlike most other chelonians, *G. muhlenbergii* do not travel to dry upland areas or the shore or beach of a pond to deposit their eggs. Instead, they select suitable slightly elevated nesting sites within their semi-aquatic marshy habitat (Zappalorti et al., 2015). Probably because of the constant saturated soil conditions in such environments, eggs are not buried in deep nest chambers. Instead, they are deposited in a shallow depression on the surface of raised grassy tussocks and are slightly covered with available humus and vegetation (Ernst et al., 1994). The elevated base of tussock-forming grasses and sedges is the preferred nesting site, but nests have also been found on moss covered stumps and *Sphagnum* clumps. Nesting areas typically have limited canopy closure, support low vegetation and provide ample solar exposure. The possibly unique nesting habits of *G. muhlenbergii* is believed to reduce high predation usually associated with upland egg-laying (Kiviat, 1978). In most chelonians and generally other K-selected vertebrates, the period of greatest vulnerability is during the early stages of life.

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U.S. Fish and Wildlife Service (USFWS). 2020a. Guidelines for Bog Turtle Surveys for the Northern Population Range: Phase 1 and 2 Surveys. Technical document, revised October 26, 2018. 20 pp.

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Zappalorti, R.T., J.E. Lovich, R. Farrell, and M.E. Torocco. 2015. Nest-Site Characteristics of *Glyptemys muhlenbergii* (Bog Turtle) in New Jersey and Pennsylvania. Northeastern Naturalist 22(3):573-584.

APPENDIX A

PNDI Receipt

1. PROJECT INFORMATION

Project Name: **Lower Windsor Township Sanitary Sewer Extension Project 005887.0447**
Date of Review: **5/1/2025 08:49:48 AM**
Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Other**
Project Area: **4.03 acres**
County(s): **York**
Township/Municipality(s): **Lower Windsor Township**
ZIP Code:
Quadrangle Name(s): **RED LION**
Watersheds HUC 8: **Lower Susquehanna**
Watersheds HUC 12: **Cabin Creek-Susquehanna River**
Decimal Degrees: **39.965561, -76.535140**
Degrees Minutes Seconds: **39° 57' 56.188" N, 76° 32' 6.5037" W**

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	**Potential Impact**	**FURTHER REVIEW IS REQUIRED, See Agency Response**
U.S. Fish and Wildlife Service	**Potential Impact**	**MORE INFORMATION REQUIRED, See Agency Response**

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

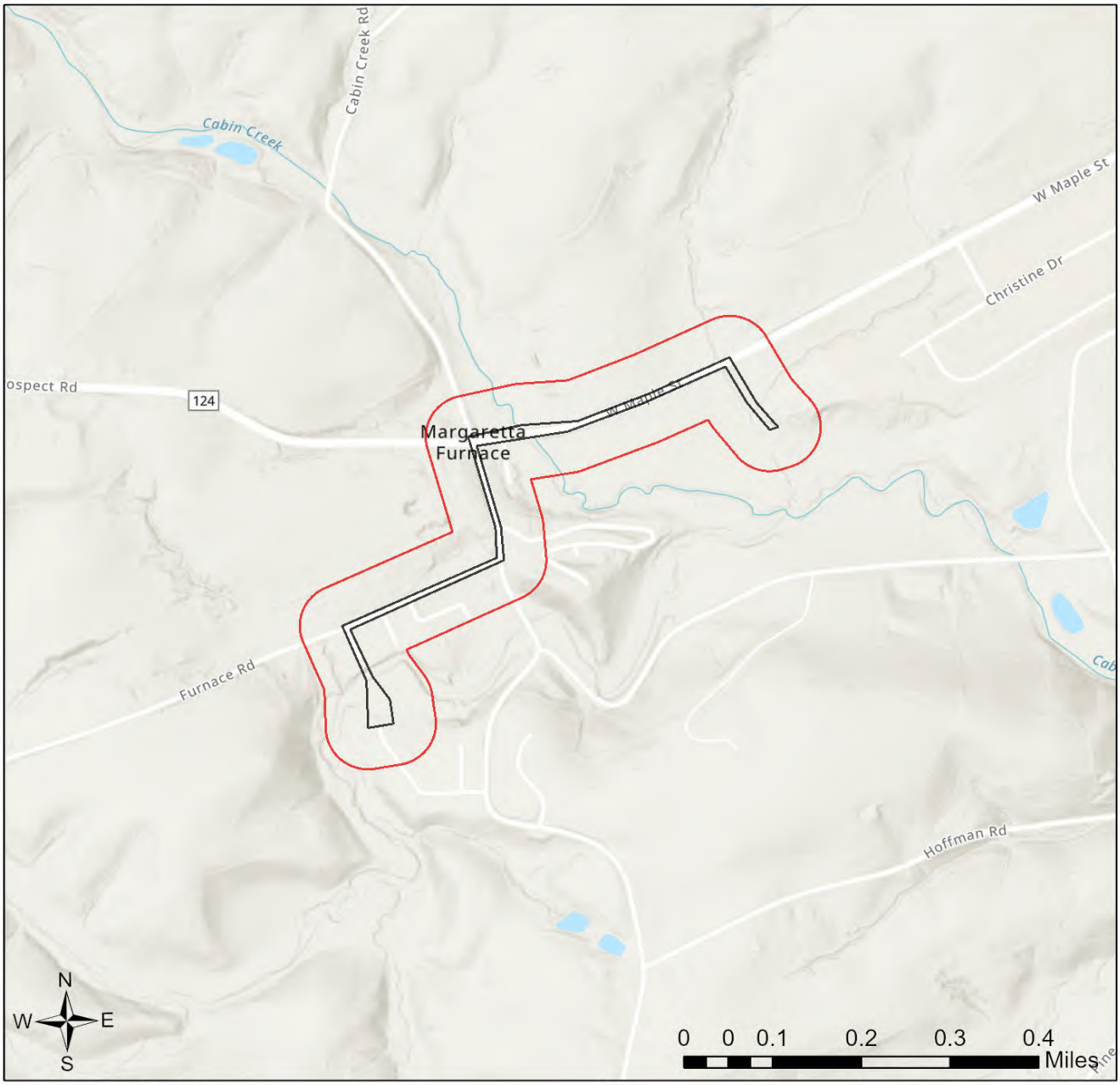
Lower Windsor Township Sanitary Sewer Extension Project 005887.0447

Buffered Project Boundary

Project Boundary

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Lower Windsor Township Sanitary Sewer Extension Project 005887.0447



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
Sources: Esri, Maxar, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA,

RESPONSE TO QUESTION(S) ASKED

Q1: Accurately describe what is known about wetland presence in the project area or on the land parcel by selecting ONE of the following. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur.
Your answer is: Someone qualified to identify and delineate wetlands (holding a natural resource degree or equivalent work experience) has investigated the site, and determined that wetlands ARE located in or within 300 feet of the project area. (A written report from the wetland specialist, and detailed project maps should document this.)

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jursidictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission
RESPONSE:
No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources
RESPONSE:
No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission
RESPONSE:
Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

PFBC Species: (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

Scientific Name	Common Name	Current Status
Sensitive Species**		Threatened

U.S. Fish and Wildlife Service
RESPONSE:

Information Request: Conduct a Bog Turtle Habitat (Phase 1) Survey in accordance with USFWS Guidelines for Bog Turtle Surveys (April 2020). Evaluate all wetlands within 300 feet of the project area, which includes all areas that will be impacted by earth disturbance or project features (e.g., roads, structures, utility lines, lawns, detention basins, staging areas, etc.). IF THE PHASE 1 SURVEY IS DONE BY A QUALIFIED BOG TURTLE SURVEYOR (see Pennsylvania Qualified Surveyors | FWS.gov): 1) Send positive results to USFWS for concurrence, along with a project description documenting how impacts will be avoided. OR, conduct a Phase 2 survey and send Phase 1 and 2 results to USFWS for concurrence. 2) Send a courtesy copy of negative results to USFWS (label as "Negative Phase 1 Survey Results by Qualified Bog Turtle Surveyor: USFWS Courtesy Copy"). USFWS approval of negative results is not necessary when a qualified surveyor does the survey in full accordance with USFWS guidelines. IF THE PHASE 1 SURVEY IS NOT DONE BY A QUALIFIED SURVEYOR: Send ALL Phase 1 results to USFWS for concurrence, and if potential habitat is found, also send a project description documenting how impacts will be avoided.
As a qualified bog turtle surveyor, I Quillyn Bickley (name) certify that I conducted a Phase 1 survey of all wetlands in and within 300 feet of the project area on May 9, 2025 (date) and determined that bog turtle habitat is absent.
Quillyn Bickley (Signature)

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found here. This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).
*If information was requested by USFWS, applicants must email, or mail, project information to IR1_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

Check-list of Minimum Materials to be submitted:
____Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
____A map with the project boundary and/or a basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
In addition to the materials listed above, USFWS REQUIRES the following
____**SIGNED** copy of a Final Project Environmental Review Receipt

The inclusion of the following information may expedite the review process.
____Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
____Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at https://conservationexplorer.dcnr.pa.gov/content/resources.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
Email: IR1_ESPenn@fws.gov
NO Faxes Please

PA Fish and Boat Commission
Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

PA Game Commission
Bureau of Wildlife Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Daria Zwart
Company/Business Name: Herbert, Rowland & Grubic, Inc.
Address: 369 E. Park Drive
City, State, Zip: Harrisburg
Phone:(717) 564-1121 Fax:( )
Email: dzwart@hrg-inc.com

8. CERTIFICATION

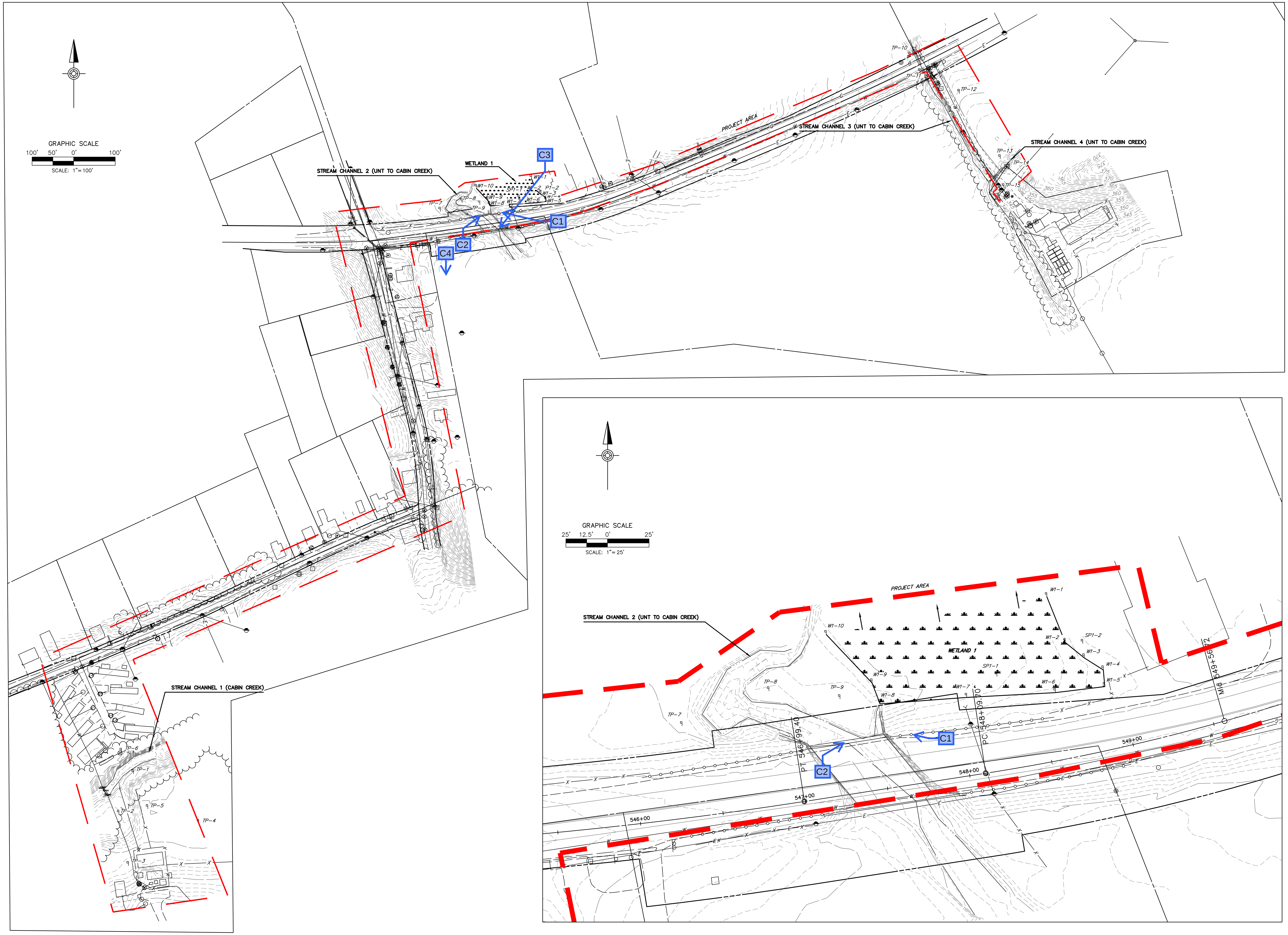
I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Daria Zwart — 05/01/2025

applicant/project proponent signature — date

APPENDIX B

Wetland and Photograph Location Map



HRG

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111
717.564.1121 | hrg-inc.com

EXISTING CONDITIONS FOR LOWER WINDSOR SANITARY EXTENSION

LOWER WINDSOR TOWNSHIP, YORK COUNTY, PA

PROFESSIONAL SEAL:

HRG PROJECT NUMBER:	5887.0447
PLAN DATE:	4/30/2025
DRAWING SCALE:	AS SHOWN
PROJ. MANAGER:	

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		

SHEET TITLE:
EX COND

SHEET:
EX COND 1

APPENDIX C

Wetland Photographs

Appendix C1. Wetland 1 is located along UNT Cabin Creek, within an agricultural field. View facing northwest.

Appendix C2. Wetland 1 along UNT Cabin Creek.

Appendix C3. Wetland A, as seen from the bridge over UNT Cabin Creek.

Appendix C4. Interior of Wetland A. No surface water or mucky substrate were present.

APPENDIX D

Phase I Data Forms

Phase 1 Bog Turtle Habitat Survey Data Form** for the **Northern Population Range
(Revised April 29, 2020) Please do not edit document.

Wetland ID: 1
PNDI # (for PA): 783359

General Info

Property/Project Name Lower Windsor Sanitary Sewer
Coordinates 39.965610, -76.535461 **Project Type** Sanitary Sewer
Entity Requesting Phase 1 Survey HRG
County/Township/Municipality Lower Windsor Twp, York Co.
Lead Surveyor Quillyn Bickley **Affiliation** HA
Other Assistants Present M. Torocco

Date/Condition

Date of Survey 5-8-2025 **Time In** 1400 **Time Out** 1420 **Air Temp.** 78 F ° C°
Last Precipitation __ < 24 hours X 1-7 days __ > 1 week __ unknown **Drought conditions?** X Yes __ No __ Unknown
Drought Index*[1] (Circle): none D0 D1 (D2) D3 D4 **Wetland Photos Taken** X Yes __ No (Provide photo location map)
Notes (*e.g.*, details about drought, flood, abnormally dry, and/or snow/ice conditions, and any other seasonal conditions observed):
Drought but recent heavy rain

Wetland Info

Wetland Size _____ acres, if known **# Wetlands w/in Project Area**[2] _____
Estimate wetland size (acres) __ < 0.1 X 0.1 - 0.5 __ 0.5 - 1 __ 1 - 2 __ 2 - 4 __ 5+ __ 10+
Estimate % Canopy Cover*[3] X 0% __ ≤ 5 __ 6-20 __ 21-40 __ 41-60 __ > 60
Hydrology and Soils (check all that apply): **use additional pages to further discuss pertinent general wetland information**
__ Springs/Seeps __ Springhouse __ Trib/Stream __ Pond __ Stormwater __ Iron Bacteria __ Watercress
__ Water Visible on Surface Evidence of Flooding __ Yes X No If yes, (__ Seasonal Flooding[4] __ Routine Flooding[5])
__ Rivulets (_____inches deep) __ Subsurface Tunnel/Rivulets __ Tire Ruts (_____inches deep)
__ Small Puddles/Depressions (____ inches deep) __Saturated soils present? If yes, year-round? __ Likely __ Unlikely__ Unk
X Yes __ No Are there any signs of disturbance to *hydrology* (*e.g.*, drainage ditches, tile drainages, berms, culverts, fill material, ponds, roads, beaver activity)?
Drainage ditch along road embankment

Estimate time period (in years) of disturbance*: __ ≤ 5 __6-10 __11-20 X > 20

For ditches that may be present, is there bog turtle habitat? If yes, describe:
No - dry ditch

[1] (*) Denotes reference to the **Supplemental Information** document that provides more details on this particular question.
[2] Each wetland must have a separate Phase 1 habitat assessment data form completed.
[3] Determine percent cover of abundant species for the wetland, not by wetland type. Abundant species are those that are most prominent in the wetland and have the highest percent of coverage compared to other species.
[4] Seasonal flooding in wetlands/streams can occur as a result of spring snow melt/heavy rain that increases water levels in these systems.
[5] Routine flooding refers to tidally-influenced wetland/stream systems or the occurrence of normal rain patterns throughout the year.

Wetland ID: 1

__ Yes X No Are there any signs of disturbance to *vegetation* (*e.g.*, mowing, pasturing, burning)? If yes, describe:

None current, but wetland is within pasture.

Wetland Info

Rate (scale of 1-4) level of vegetation disturbance* (Circle): 1. Light to moderate grazing or mowing 2. No grazing, mowing, burning observed[6] 3. Moderate to high grazing or mowing 4. Mowing occurs during bog turtle active season

Soil types present*: non-mucky

How much suitable habitat is in this wetland? Estimate acreage or percentage: 0%

Wetland Type	% of Total Wetland	% of Wetland Type w/Muck	Avg. Muck Depth	Max. Muck Depth
PEM Portion of Wetland:	100	0	n/a in.	n/a in.
PSS Portion of Wetland:			in.	in.
PFO Portion of Wetland:			in.	in.
POW/PUB Portion of Wetland:			in.	in.

CIRCLE all vegetation* from list below that is dominant (≥ 20% for each wetland type listed above) and add other species you observe that are not listed in table in the "notes" space provided below or in the extra table cells.

Wetland Type/Vegetation

Alder Spp. *Alnus* spp.	Common Reed *Phragmites australis*	Jewelweed *Impatiens capensis*	Rice Cutgrass *Leersia oryzoides*	Spicebush *Lindera benzoin*	Willow spp. *Salix* spp.
Alder-leaved Buckthorn *Rhamnus alnifolia*	Dogwood Spp. *Cornus* spp.	Mile-A-Minute *Persicaria perfoliata*	Rough-leaved Goldenrod *Solidago patula*	Spike-Rush *Eleocharis palustris*	Woolly-fruited Sedge *Carex lasiocarpa*
American Elm *Ulmus americana*	Duck Potato *Sagittaria latifolia*	Multiflora Rose *Rosa multiflora*	Sensitive Fern *Onoclea sensibilis*	Swamp Rose *Rosa palustris*	Woolly Bulrush or Woolgrass *Scirpus cyperinus*
Arrowhead *Sagittaria latifolia*	Eastern Red Cedar *Juniperus virginiana*	Poison Sumac *Toxicodendron vernix*	Shrubby Cinquefoil *Dasiphora fruticosa*	Sweetflag *Acorus calamus*	Yellow-Green Sedge *Cyperus esculentus*
Carpetgrass *Axonopus fissifolius*	Eastern Tamarack *Larix laricina*	Porcupine Sedge *Carex hystericina*	Skunk Cabbage *Symplocarpus foetidus*	Tearthumb Spp. *Polygonum* spp.	
Cattail *Typha* spp.	Grass-of-Parnassus *Parnassia glauca*	Purple Loosestrife *Lythrum salicaria*	Smooth Sawgrass *Cladium mariscoides*	. Tussock Sedge *Carex stricta*	
Cinnamon Fern *Osmundastrum cinnamomeum*	Inland sedge *Carex interior*	Red Maple *Acer rubrum*	Soft Rush or Common Rush *Juncus effusus*	Viburnum Spp. *Viburnum* spp.	
Common Boneset *Eupatorium perfoliatum*	Japanese Stiltgrass *Microstegium vimineum*	Reed Canary Grass *Phalaris arundinacea*	Sphagnum Moss *Sphagnum* spp.	White turtlehead *Chelone glabra*	

Notes on additional plant species (*e.g.*, sedge, rush, grass, shrub, tree species):

field grasses

[6] No grazing, mowing, or burning is given a "2" rank as this is considered more harmful to bog turtle wetlands than Rank 1 (light to moderate grazing or mowing). Light to moderate habitat management is beneficial to suppressing succession of native and non-native plant species.

Wetland ID: 1

Describe surrounding landscape (*e.g.*, wetlands, forest, subdivision, agricultural field, fallow field, etc.):

Agricultural land, barns, farmhouse

Landscape Info

How much of this wetland is located **off-site** (*i.e.*, outside the property boundaries or right-of-way)?

__ None of it – the entire wetland is within the property boundaries

X Some of it – _____ Acres or 70 % of the wetland appears to be located off-site

If part of this wetland continues off-site, how much of the **off-site portion** was surveyed (on foot)?

__ None of it X All of it __ Part of it (____ acres or ____% of the off-site portion)

Is there potential bog turtle habitat **within 300 feet***? __ Yes X No __ Unk Habitat **off-site**? __ Yes __ No X Unk

If yes, how did you conclude this?

Species

Were any bog turtles observed? __ Yes X No If yes, how many?_____

Other herps observed? __ Yes X No If yes, which ones?

*Note that you must be permitted by the state you are conducting the survey in to handle bog turtles.

*Report bog turtle observations to your local FWS Field Office and state wildlife office within 48 hrs.

Lead Surveyor Opinion

__ Yes X No __ Unsure The **hydrology** criterion for bog turtle habitat is met.

__ Yes X No __ Unsure The **soils** criterion for bog turtle habitat is met.

__ Yes X No __ Unsure The **vegetation** criterion for bog turtle habitat is met.

__ Yes X No __ Unsure This wetland **HAS** potential bog turtle habitat (fair to good quality).

__ Yes X No __ Unsure This wetland **HAS** potential bog turtle habitat (low to very low quality).

X This wetland does **NOT** have potential bog turtle habitat. __ **UNSURE** if suitable habitat is present.

Notes (How did you reach this opinion?):

No mucky soil, grass monoculture, no springs.

Lead Surveyor – **please sign** below certifying to the best of your knowledge that all of the information provided herein is accurate and complete.

Print Name Quillyn Bickley **Signature** Quillyn Bickley

Date 5-8-25

Contact Information 215-908-3566

****Important**** Please include all Phase 1 data forms in a final Phase 1 bog turtle habitat assessment report (see Attachment 3 in *Guidelines for Bog Turtle Surveys* for checklist) and submit to your local state wildlife agency and U.S. Fish and Wildlife Service Field Office (see Attachment 1 in *Guidelines for Bog Turtle Surveys*).

Additional space for notes, color photos, or maps/sketch of wetland (or attach printed map with each wetland type carefully outlined; include all wetland types [PEM, PSS, PFO, POW/PUB], streams/ditches, north arrow, property/project borders, and areas of core bog turtle habitat. Include **color photos** for each wetland assessed and separate Phase 1 data forms for each when submitting to agencies, as well as any reptile and amphibian species you encounter, if possible.

Wetland is located on west side of barn at base of slope. Relatively level terrain slows water drainage, which ultimately drains to a ditch along E. Prospect Road and then into creek.

No springs or muck observed.

Wetland is w/in pasture.

Phase 1 Bog Turtle Habitat Survey Data Form** for the **Northern Population Range
(Revised April 29, 2020) Please do not edit document.

Wetland ID: A
PNDI # (for PA): 783359

General Info

Property/Project Name Lower Windsor Sanitary Sewer
Coordinates 39.965080, -76.535811 **Project Type** Sanitary Sewer
Entity Requesting Phase 1 Survey HRG
County/Township/Municipality Lower Windsor Twp, York Co.
Lead Surveyor Quillyn Bickley **Affiliation** HA
Other Assistants Present M. Torocco

Date/Condition

Date of Survey 5-8-2025 **Time In** 1420 **Time Out** 1440 **Air Temp.** 78 F ° C°
Last Precipitation __ < 24 hours X 1-7 days __ > 1 week __ unknown **Drought conditions?** X Yes __ No __ Unknown
Drought Index*[1] (Circle): none D0 D1 (D2) D3 D4 **Wetland Photos Taken** X Yes __ No (Provide photo location map)
Notes (*e.g.*, details about drought, flood, abnormally dry, and/or snow/ice conditions, and any other seasonal conditions observed):
Drought but recent heavy rain

Wetland Info

Wetland Size _____ acres, if known **# Wetlands w/in Project Area**[2] 1
Estimate wetland size (acres) __ < 0.1 __ 0.1 - 0.5 X 0.5 - 1 __ 1 - 2 __ 2 - 4 __ 5+ __ 10+
Estimate % Canopy Cover*[3] __ 0% X ≤ 5 __ 6-20 __ 21-40 __ 41-60 __ > 60
Hydrology and Soils (check all that apply): **use additional pages to further discuss pertinent general wetland information**
__ Springs/Seeps __ Springhouse __ Trib/Stream __ Pond X Stormwater __ Iron Bacteria __ Watercress
__ Water Visible on Surface Evidence of Flooding __ Yes X No If yes, (__ Seasonal Flooding[4] __ Routine Flooding[5])
__ Rivulets (_____inches deep) __ Subsurface Tunnel/Rivulets X Tire Ruts (__1__inches deep)
__ Small Puddles/Depressions (____ inches deep) X Saturated soils present? If yes, year-round? __ Likely X Unlikely __ Unk
X Yes __ No Are there any signs of disturbance to *hydrology* (*e.g.*, drainage ditches, tile drainages, berms, culverts, fill material, ponds, roads, beaver activity)?
Filling for shed @ edge of wetland

Estimate time period (in years) of disturbance*: __ ≤ 5 __6-10 __11-20 X > 20

For ditches that may be present, is there bog turtle habitat? If yes, describe:
No - dry ditch

[1] (*) Denotes reference to the **Supplemental Information** document that provides more details on this particular question.
[2] Each wetland must have a separate Phase 1 habitat assessment data form completed.
[3] Determine percent cover of abundant species for the wetland, not by wetland type. Abundant species are those that are most prominent in the wetland and have the highest percent of coverage compared to other species.
[4] Seasonal flooding in wetlands/streams can occur as a result of spring snow melt/heavy rain that increases water levels in these systems.
[5] Routine flooding refers to tidally-influenced wetland/stream systems or the occurrence of normal rain patterns throughout the year.

Wetland ID: A

X Yes __ No Are there any signs of disturbance to *vegetation* (*e.g.*, mowing, pasturing, burning)? If yes, describe:

ATV tracks in wetland

Wetland Info

Rate (scale of 1-4) level of vegetation disturbance* (Circle): 1. Light to moderate grazing or mowing (2.) No grazing, mowing, burning observed[6] 3. Moderate to high grazing or mowing 4. Mowing occurs during bog turtle active season

Soil types present*: non-mucky

How much suitable habitat is in this wetland? Estimate acreage or percentage: 0%

Wetland Type	% of Total Wetland	% of Wetland Type w/Muck	Avg. Muck Depth	Max. Muck Depth
PEM Portion of Wetland:	100	0	n/a in.	n/a in.
PSS Portion of Wetland:			in.	in.
PFO Portion of Wetland:			in.	in.
POW/PUB Portion of Wetland:			in.	in.

CIRCLE all vegetation* from list below that is dominant (≥ 20% for each wetland type listed above) and add other species you observe that are not listed in table in the "notes" space provided below or in the extra table cells.

Wetland Type/Vegetation

Alder Spp. *Alnus* spp.	Common Reed *Phragmites australis*	(Jewelweed *Impatiens capensis*)	Rice Cutgrass *Leersia oryzoides*	Spicebush *Lindera benzoin*	Willow spp. *Salix* spp.
Alder-leaved Buckthorn *Rhamnus alnifolia*	Dogwood Spp. *Cornus* spp.	Mile-A-Minute *Persicaria perfoliata*	Rough-leaved Goldenrod *Solidago patula*	Spike-Rush *Eleocharis palustris*	Woolly-fruited Sedge *Carex lasiocarpa*
American Elm *Ulmus americana*	Duck Potato *Sagittaria latifolia*	Multiflora Rose *Rosa multiflora*	Sensitive Fern ✓ *Onoclea sensibilis*	Swamp Rose *Rosa palustris*	Woolly Bulrush or Woolgrass *Scirpus cyperinus*
Arrowhead *Sagittaria latifolia*	Eastern Red Cedar *Juniperus virginiana*	Poison Sumac *Toxicodendron vernix*	Shrubby Cinquefoil *Dasiphora fruticosa*	Sweetflag *Acorus calamus*	Yellow-Green Sedge *Cyperus esculentus*
Carpetgrass *Axonopus fissifolius*	Eastern Tamarack *Larix laricina*	Porcupine Sedge *Carex hystericina*	Skunk Cabbage *Symplocarpus foetidus*	Tearthumb Spp. *Polygonum* spp.	sedges ✓
(Cattail *Typha* spp.)	Grass-of-Parnassus *Parnassia glauca*	Purple Loosestrife *Lythrum salicaria*	Smooth Sawgrass *Cladium mariscoides*	. Tussock Sedge *Carex stricta*	
Cinnamon Fern *Osmundastrum cinnamomeum*	Inland sedge *Carex interior*	Red Maple *Acer rubrum*	Soft Rush or Common Rush ✓ *Juncus effusus*	Viburnum Spp. *Viburnum* spp.	
Common Boneset *Eupatorium perfoliatum*	(Japanese Stiltgrass *Microstegium vimineum*)	Reed Canary Grass *Phalaris arundinacea*	Sphagnum Moss *Sphagnum* spp.	White turtlehead *Chelone glabra*	

Notes on additional plant species (*e.g.*, sedge, rush, grass, shrub, tree species):

Poacea family grasses

[6] No grazing, mowing, or burning is given a "2" rank as this is considered more harmful to bog turtle wetlands than Rank 1 (light to moderate grazing or mowing). Light to moderate habitat management is beneficial to suppressing succession of native and non-native plant species.

Wetland ID: A

Describe surrounding landscape (*e.g.*, wetlands, forest, subdivision, agricultural field, fallow field, etc.):

Agricultural land, residential housing

Landscape Info

How much of this wetland is located **off-site** (*i.e.*, outside the property boundaries or right-of-way)?

__ None of it – the entire wetland is within the property boundaries

X Some of it – _____ Acres or 100 % of the wetland appears to be located off-site

If part of this wetland continues off-site, how much of the **off-site portion** was surveyed (on foot)?

__ None of it __ All of it X Part of it (____ acres or 50 % of the off-site portion)

Is there potential bog turtle habitat **within 300 feet***? __ Yes X No __ Unk Habitat **off-site**? __ Yes __ No X Unk

If yes, how did you conclude this?

Species

Were any bog turtles observed? __ Yes X No If yes, how many?_____

Other herps observed? __ Yes X No If yes, which ones?

*Note that you must be permitted by the state you are conducting the survey in to handle bog turtles.

*Report bog turtle observations to your local FWS Field Office and state wildlife office within 48 hrs.

Lead Surveyor Opinion

__ Yes X No __ Unsure The **hydrology** criterion for bog turtle habitat is met.

__ Yes X No __ Unsure The **soils** criterion for bog turtle habitat is met.

__ Yes X No __ Unsure The **vegetation** criterion for bog turtle habitat is met.

__ Yes X No __ Unsure This wetland **HAS** potential bog turtle habitat (fair to good quality).

__ Yes X No __ Unsure This wetland **HAS** potential bog turtle habitat (low to very low quality).

X This wetland does **NOT** have potential bog turtle habitat. __ **UNSURE** if suitable habitat is present.

Notes (How did you reach this opinion?):

No springs noted; saturated by non-mucky soil
No surf. water.

Lead Surveyor – **please sign** below certifying to the best of your knowledge that all of the information provided herein is accurate and complete.

Print Name Quillyn Bickley **Signature** Quillyn Bickley

Date 5-8-25

Contact Information 215-908-3566

****Important**** Please include all Phase 1 data forms in a final Phase 1 bog turtle habitat assessment report (see Attachment 3 in *Guidelines for Bog Turtle Surveys* for checklist) and submit to your local state wildlife agency and U.S. Fish and Wildlife Service Field Office (see Attachment 1 in *Guidelines for Bog Turtle Surveys*).

Additional space for notes, color photos, or maps/sketch of wetland (or attach printed map with each wetland type carefully outlined; include all wetland types [PEM, PSS, PFO, POW/PUB], streams/ditches, north arrow, property/project borders, and areas of core bog turtle habitat. Include **color photos** for each wetland assessed and separate Phase 1 data forms for each when submitting to agencies, as well as any reptile and amphibian species you encounter, if possible.

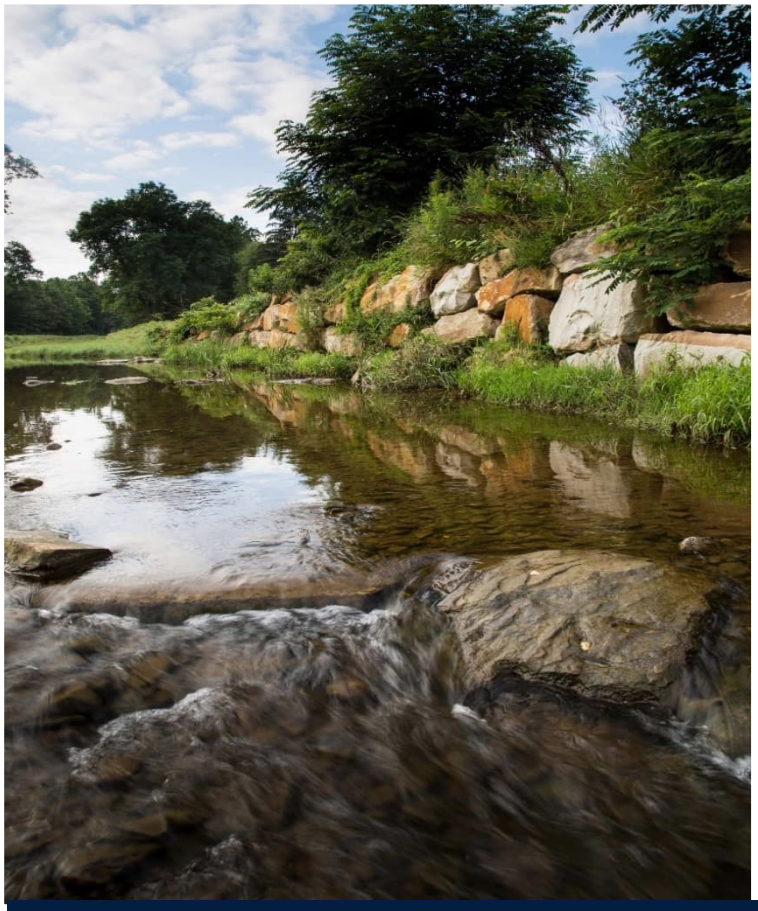
Wetland located b/w creek + fill slope assoc. w/ garage. Wetland formed by poor drainage. Evidence of standing water but dry now (desicated tadpoles). Soil is saturated + soft, but can not be probed to >3".

Herbert, Rowland & Grubic, Inc.
369 East Park Drive
Harrisburg, PA 17111
717.564.1121
www.hrg-inc.com

REGULATED WATERS DELINEATION REPORT

LOWER WINDSOR SEWER EXTENSION

[5887.0447]



Submitted: [April 30, 2025]

Herbert, Rowland & Grubic, Inc.
Engineering | Planning | Infrastructure Solutions

TABLE OF CONTENTS

EXHIBITS

APPENDICES

EXECUTIVE SUMMARY

Herbert, Rowland, & Grubic, Inc. (HRG) was retained by The York Water Company to perform a regulated waters delineation along a proposed sanitary sewer extension in Lower Windsor Township, York County, Pennsylvania. The Project Area consists of maintained roadsides, scrub/shrub riparian areas, mowed/maintained lawn areas and open field areas.

Wetlands were investigated for by HRG on April 14, 2023, as defined by the 1987 Corps of Engineers Wetland Delineation Manual, the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region Version 2.0 (Regional Supplement), and subsequent guidance. One (1) palustrine emergent wetland area and four (4) stream channels were identified within the Project Area.

WETLAND DELINEATION REPORT – LOWER WINDSOR SEWER EXTENSION

LOWER WINDSOR TOWNSHIP, YORK COUNTY, PENNSYLVANIA

INTRODUCTION

On April 14, 2025, a field investigation was conducted on a Project Area to determine the presence and extent of any freshwater wetlands. The Project Area is located in Lower Windsor Township, York County, Pennsylvania. The wetland delineation was confined to the designated Project Area. The center of the site is located at approximately 39.965366° N and -76.536669° W. See the Site Location Map presented as Exhibit A.

EXISTING USES OF THE SITE

The Project Area consists of the maintained roadsides along Furnace Road, Snyder Road and E. Prospect Road as well as maintained/mowed residential lawn areas, open field areas and scrub/shrub riparian areas along the proposed sanitary sewer alignment. Topographically, the Project Area consists of rolling land, primarily draining to Cabin Creek or one of its three (3) Unnamed Tributaries which flow through the Project Area. Elevations range from approximately 365 feet above mean sea level in the southwestern portion of the Project Area down to approximately 340 feet above mean sea level in the eastern portion of the Project Area.

SOILS

According to the U.S. Natural Resources Conservation Service (NRCS) Web Soil Survey web site, http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm and the NRCS York County Soil Survey, the Project Area contains several major soil types. The soil series found within the Project Area include the Chagrin, Chester, Codorus, Conestoga, Mt. Airy, Pequea and Urban land soils. Mapped soils within the Project Area can be found in Exhibit B.

The specific soils found within the project area are:

Chagrin silt loam (Cd), 0 to 3 percent slopes, is a very deep, well drained soil found on floodplains. It formed in recent alluvium. Chagrin silt loam is not listed as a hydric soil.

Codorus silt loam (Cm), 0 to 3 percent slopes, is a deep, moderately well drained soil found on floodplains. It formed in alluvium derived from gneiss and/or alluvium derived from mica schist. Codorus silt loam is not listed as a hydric soil; however, it does contain hydric inclusions.

Conestoga silt loams (CnB and CnC), 3 to 15 percent slopes, are deep, well drained soils found on hillsides. They formed in residuum weathered from schist. Conestoga silt loams are not listed as hydric soils.

Pequea silt loam (PsB), 3 to 8 percent slopes, is a very deep, well drained soil found on hillslopes. It formed in residuum weathered from limestone. Pequea silt loam is not listed as a hydric soil.

Urban land – Chester complex (UdB), 0 to 8 percent slopes, are deep, well drained soils found on hills. The Chester component formed in residuum weathered from mica schist. The Urban land component consists mainly of pavement, buildings and other artificially covered areas. Urban land – Chester complex soils are not listed as hydric soils.

Urban land – Mt. Airy complex (UfC), 8 to 15 percent slopes, are relatively shallow to deep, somewhat excessively drained soils found on mountainsides. The Mt. Airy component formed in residuum weathered from mica schist. The Urban land component consists mainly of pavement, buildings and other artificially covered areas. Urban land – Mt. Airy complex soils are not listed as hydric soils.

MAPPED WETLANDS

The National Wetland Inventory (NWI) mapping is used to inventory and classify wetlands using the Cowardin Classification System (USFWS, 1979). The wetlands on the NWI maps were identified from aerial photography and are not necessarily the only regulatory wetlands within a given area. These maps serve as a good first source to determine if wetlands exist within the given area and their general characteristics.

According to the NWI Mapping, there are no mapped wetlands within the Project Area; however, Stream Channel 1 (Cabin Creek) and Stream Channel 2 (UNT to Cabin Creek) are shown as riverine systems flowing through the Project Area. This map was used as a reference for this report; however, it should be noted that the delineation represents current conditions. Mapped wetlands are illustrated in Exhibit C.

DELINEATION METHODS

The Routine On-Site Determination Method in accordance with the United States Army Corps of Engineers (USACE) Wetlands Delineation Manual (USACE, 1987) and the Regional Supplement to the USACE Wetland Delineation Manual: Eastern Mountains and Piedmont Region (USACE, April 2012) were used to identify and delineate the wetlands within the Project Area. A crisscross pattern was utilized during field reconnaissance to ensure that all areas of the site were visually inspected for wetland indicators. To identify a wetland using the USACE determination, an area must exhibit hydric soils, wetland hydrology and a predominance of hydrophytic vegetation. Wetlands and watercourses are regulated within the Commonwealth of Pennsylvania by the USACE and the Pennsylvania Department of Environmental Protection (DEP).

A hydric soil is defined as "a soil that is saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions that favor the growth and regeneration of hydrophytic vegetation" (USACE, 1987) and as further detailed in the USACE Regional Supplements to the 1987 Manual as issued after 2009. Field observations for soil focused on the determination of hydric soil characteristics within the top twenty (20) inches of the surface. Color is often the most diagnostic indicator of hydric soil. The color observations were made at ten (10) inches or just below the A-horizon, whichever is shallower. The hue, value, and chroma of the soils were determined using the Munsell Soil Color Charts (Kollmorgen, 1992). Gleyed soils, mottled soils with a matrix chroma of two (2) or less and value of four (4) as well as soils with a chroma of two (2) and value of five (5), and unmottled soils with a matrix chroma of two (2) or less and value of six (6) or more as well as soils with a chroma of one (1) and value of five (5) are considered to be hydric.

The USACE Corps of Engineers Wetlands Delineation Manual states that, "Areas with evident characteristics of wetland hydrology are those where the presence of water has an overriding influence on characteristics of vegetation and soils due to anaerobic and reducing conditions, respectively. Such characteristics are usually present in areas that are inundated or have soils that are saturated to the surface for sufficient duration to develop hydric soils and support vegetation typically adapted for life in periodically anaerobic soil conditions." Primary indicators of wetland hydrology include inundation, saturation, watermarks, drift deposits, waterborne sediment deposits, oxidized root channels and water-stained leaves. Secondary indicators include, but are not limited to, surface soil cracks, drainage patterns, morphological plant adaptations, and local soil survey data. One (1) primary indicator or two (2) secondary indicators need to be present to meet the wetland hydrology criteria. Many of these indicators are present even during extended dry periods.

Hydrophytic vegetation is defined "as the sum total of macrophytic plant life that occurs in areas where the frequency and duration of inundation or soil saturation produce permanently or periodically saturated soils of sufficient duration to exert a controlling influence on the plant species present" (USACE, 1987). Hydrophytic vegetation has an indicator status of either obligate (OBL), facultative wet (FACW), and facultative (FAC) and is typically adapted for life in anaerobic soil conditions.

The DEP, in PA Chapter 105, defines a watercourse as channel or conveyance of surface water having defined bed and banks, whether natural or artificial, with perennial or intermittent flow. Intermittent watercourses are thus being defined as a body of water flowing in a channel or bed composed primarily of substrates associated with flowing water, which, during periods of the year, is below the local water table and obtains its flow from both surface runoff and groundwater discharges. Perennial watercourses are being defined as a body of water flowing in a channel or bed composed primarily of substrates associated with flowing waters and is capable, in the absence of pollution or other manmade stream disturbances, of supporting a benthic macroinvertebrate community which is composed of two or more recognizable taxonomic groups of organisms that live at least part of their life cycles within or upon available substrates in a body of water or water transport system.

Herbert, Rowland & Grubic, Inc. (HRG) used field guides that were suitable for the geographic region to guide the identification of plant species in the field. These reference materials are listed in the Reference Section. The indicator status (OBL, FACW, FAC, facultative upland (FACU) or upland (UPL)) of identified,

dominant plant species was determined using the U.S. Army Corps of Engineers 2020 National Wetland Plant List, version 3.5 (U.S. Army Corps of Engineers Engineer Research and Development Center Cold Regions Research and Engineering Laboratory).

The wetland field investigation was conducted on April 14, 2025. The boundaries of the identified wetlands were marked with numbered flags for survey. The wetlands, ponds and all stream channels were surveyed during field investigation. Exhibit D shows the delineated wetlands, ponds and stream channels. Photographs of the wetlands and data forms are located in Appendix A and Appendix B, respectively.

DESIGNATED WETLANDS

The field investigation identified one (1) palustrine wetland areas within the Project Area, identified as Wetland 1. See Exhibit D for location of all wetland areas.

Wetland 1 (W1) is a palustrine emergent wetland located in an agricultural field occasionally mowed for hay to the east of Stream Channel 2 (UNT to Cabin Creek) and north of E Prospect Road. The vegetation within the wetland is disturbed by occasional mowing for hay and consists of unidentifiable grasses (*Poa sp*). The wetland is documented by two data points, SP1-1 (wetland) and SP1-2 (upland). The upland border was defined by a topographic transition as slopes steepen to the south and east, a lack of wetland hydrology, as well as a lack of hydric soil components. This wetland was delineated by 10 flags (W1-1 through W1-10) and is open outside of the Project Area to the north.

TABLE 1 – WETLAND AREAS WITHIN THE PROJECT AREA

Wetland Area	**SIZE (Acres) – Type of Wetland**
1*	0.16 acre - PEM
Total Wetland Area	0.16 acre Palustrine Wetland

Wetland Type: Palustrine Emergent (PEM), Palustrine Scrub/Shrub (PSS), Palustrine Forested (PFO)

** - Wetland extended outside of the project study area but closed for measurement purposes*

SURFACE WATERS

Surface waters include state and/or federally regulated water features such as lakes, ponds, rivers, and streams. A review of the United States Geological Survey's National Hydrography Dataset (NHD) revealed two (2) mapped surface waters within the Project Area (Cabin Creek and an Unnamed Tributary to Cabin Creek). The flow regime of field identified waterways has been classified as perennial, intermittent, or ephemeral per regulatory requirements as it relates to Section 401 and 404 of the Clean Water Act.

The site investigation confirmed the location of Cabin Creek (WWF, MF) (Stream Channel 1) and the mapped Unnamed Tributary to Cabin Creek (WWF, MF) (Stream Channel 2), both of which are perennial stream channels flowing through the Project Area. The site investigation also identified Stream Channel 3, an Unnamed Tributary to Cabin Creek, a perennial stream channel and Stream Channel 4, an Unnamed Tributary to Cabin Creek, an intermittent stream channel. Within the Project Area, Cabin Creek is listed as a natural reproduction trout stream. Cabin Creek flows directly into the Susquehanna River.

UPLAND AREAS

All areas outside of the delineation are classified as upland and maintained residential lawns, open field areas, scrub/shrub riparian areas and maintained roadsides throughout the Project Area. These areas generally coincide with higher elevations and/or steeper slopes and free draining soils.

CONCLUSION

On April 14, 2025, a wetland delineation was conducted on a site located in Lower Windsor Township, York County, Pennsylvania. The delineation identified one (1) palustrine wetland area and four (4) stream channels within the Project Area. The total palustrine wetland area within the Project Area is 0.16 acre. The wetland areas were identified, flagged and surveyed. The delineation was limited to the subject Project Area.

Prepared By: _____

Brandon T. Meyers
Senior Environmental Scientist

REFERENCES

USGS Map, Red Lion, PA Quadrangle (Topographic), 7.5-Minute Series.

Corps of Engineers Wetland Delineation Manual, Environmental Laboratory, January 1987.

Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region, Environmental Laboratory, April 2012

Munsell Soil Color Charts, Kollmorgen Instruments Corp, 2000 Revised Edition.

The Shrub Identification Book, George W.D. Symonds, 1963, Harper Collins, New York.

The Tree Identification Book, George W.D. Symonds, 1958, Harper Collins, New York.

Wildflowers, R. Petersen and M. McKenny, 1968, Houghton Mifflin, New York

Weeds of the Northeast, Richard Uva et al, 1997, Cornell University Press, Ithaca, New York

U.S. Army Corps of Engineers 2020 National Wetland Plant List, version 3.5, http://wetland-plants.usace.army.mil/, U.S. Army Corps of Engineers Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory, Hanover, NH

U.S. Natural Resources Conservation Service (NRCS) Web Soil Survey web site, Date Accessed –August 13, 2024. <http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>

U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory, Wetland Mapper. Date Accessed – August 13, 2024. <https://www.fws.gov/wetlands/Data/Mapper.html>.

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Environmental Professional

Brandon Meyers
Senior Environmental Scientist

- B.S., Environmental Science, Edinboro University, 2003

EXPERIENCE

Mr. Meyers is a Senior Environmental Scientist with Herbert, Rowland & Grubic, Inc. (HRG). His responsibilities include field studies and assessments involving collection and analysis of watershed data; Phase I Environmental Site Assessment research and reports; wetland identification and delineation, wetland mitigation design, site work, reports, natural gas well pad and pipeline development, macroinvertebrate sampling, stream assessment, Phase I Environmental Site Assessment research and reports and coordination with PADEP, US Army Corps of Engineers and additional federal and state agencies.

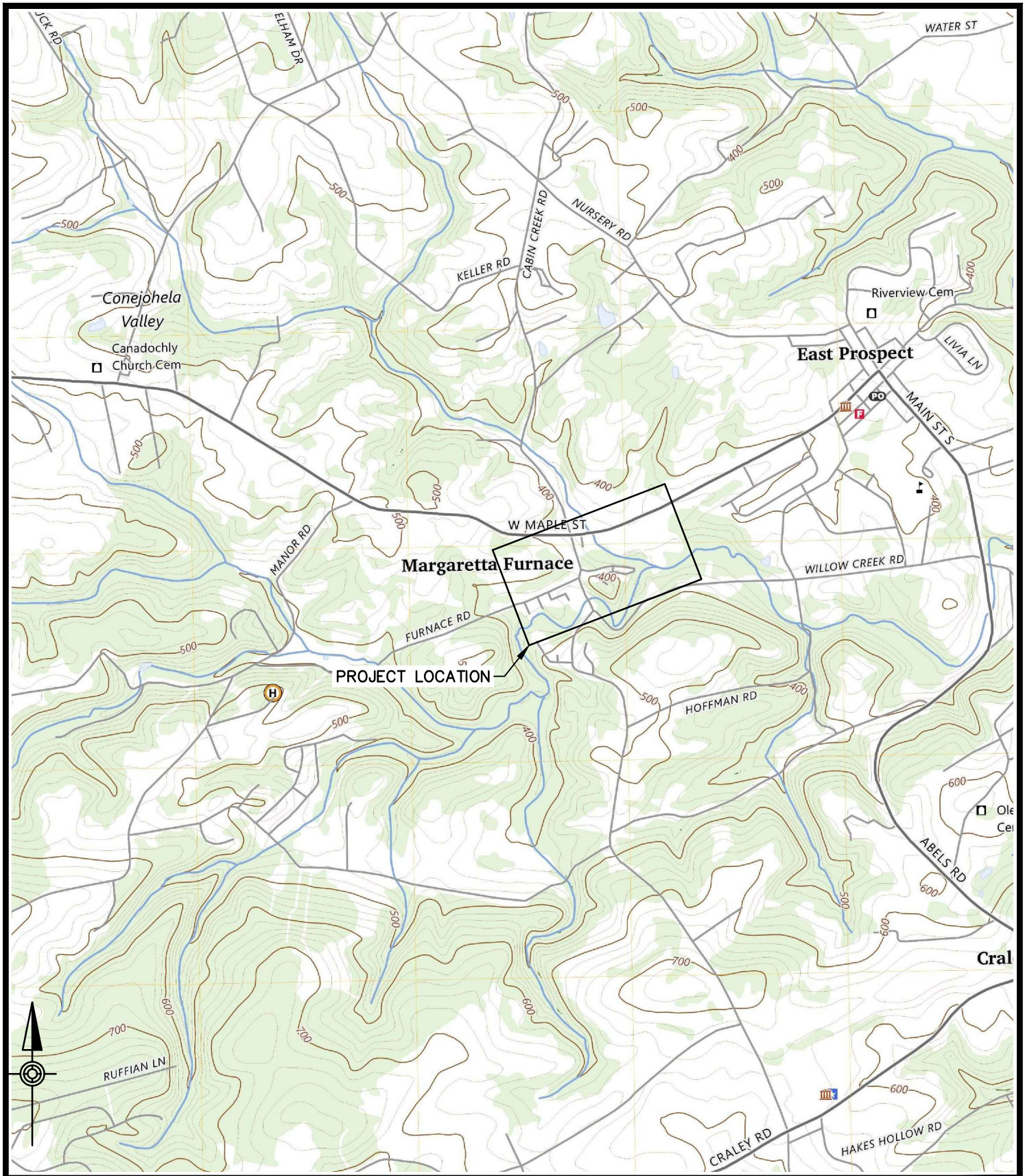
CERTIFICATIONS

- OSHA 10-Hour Training, Safety Consulting Services by: Eichelbergers, Inc., 2006
- OSHA 40-Hour HAZWOPER, Compliance Solutions Occupational Trainers, Inc., 2009

CONTINUING EDUCATION

- Wetland Delineation and Management Training, Richard Chinn Environmental Training, Inc., 2006
- Bog Turtle Phase I Habitat Training, Skelly and Loy, Inc., 2010
- Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual Training, Pennsylvania Association of Professional Soil Scientists, 2010
- USFWS Indiana Bat Habitat Identification Training, 2012

EXHIBIT A
SITE LOCATION AND TOPOGRAPHY



PROJECT #:	R005887.0447
DATE:	MARCH 2025
SCALE:	1": 2000'
PM:	
SHEET: LOC MAP	1

LOCATION MAP
FOR
LOWER WINDSOR SEWER EXTENSION

LOWER WINDSOR TOWNSHIP YORK COUNTY PENNSYLVANNIA

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111
717.564.1121 | hrg-inc.com

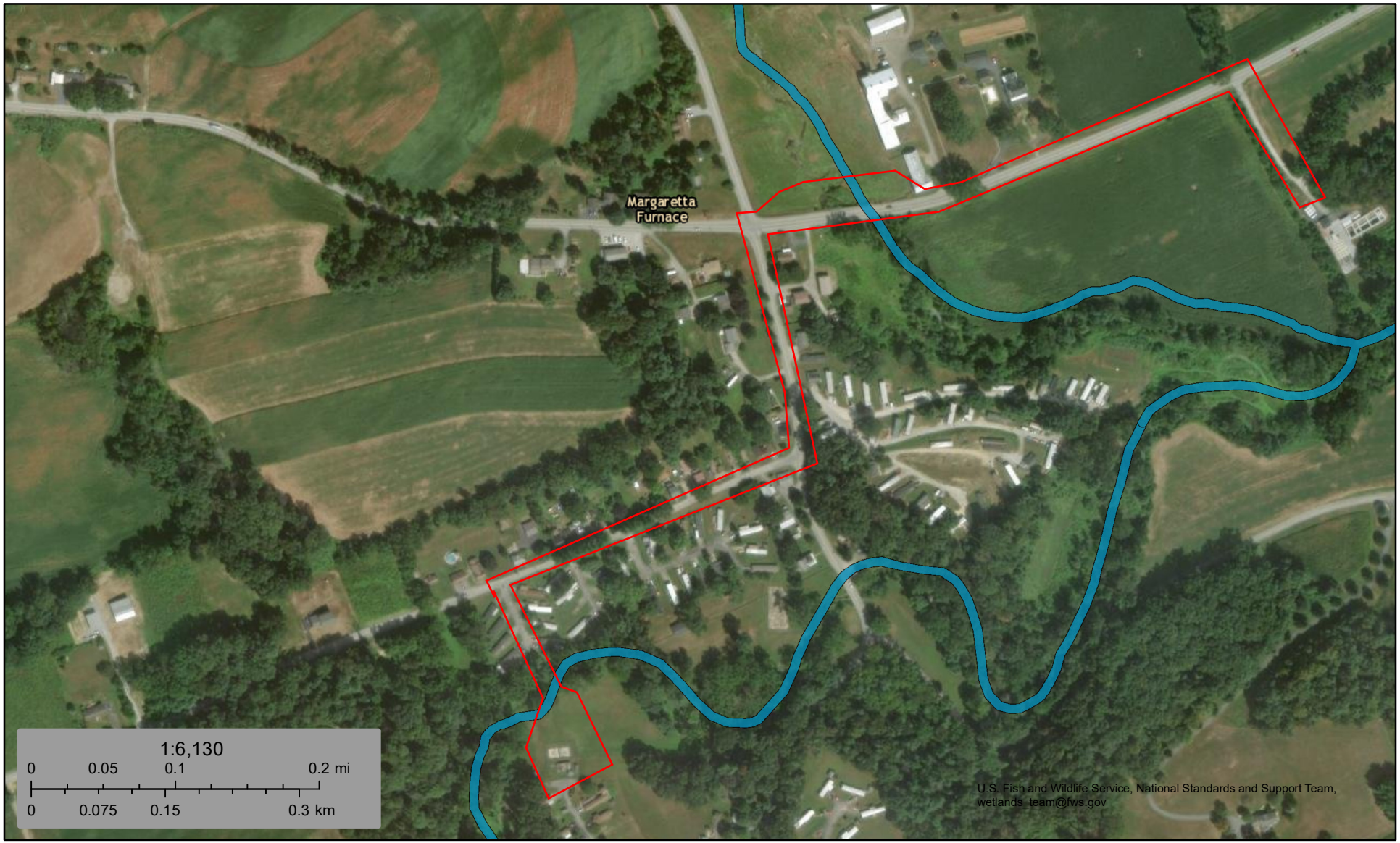
EXHIBIT B
SOIL MAP


76° 32' 31" W
76° 31' 41" W
39° 58' 2" N
39° 57' 37" N
368400
368500
368600
368700
368800
368900
369000
369100
369200
369300
369400
368300
4425200
4425100
4425000
4424900
4424800
4424700
4424600
4424500
PsB
Cd
Cd
CnC
CnB
124
Gabin Creek
Haven Dr
UdB
Cm
UfC
Willow Creek Rd
Soil Map may not be valid at this scale.
Map Scale: 1:5,370 if printed on A landscape (11" x 8.5") sheet.
N
Meters
0 50 100 200 300
Feet
0 250 500 1000 1500
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

EXHIBIT C
NATIONAL WETLANDS INVENTORY

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands



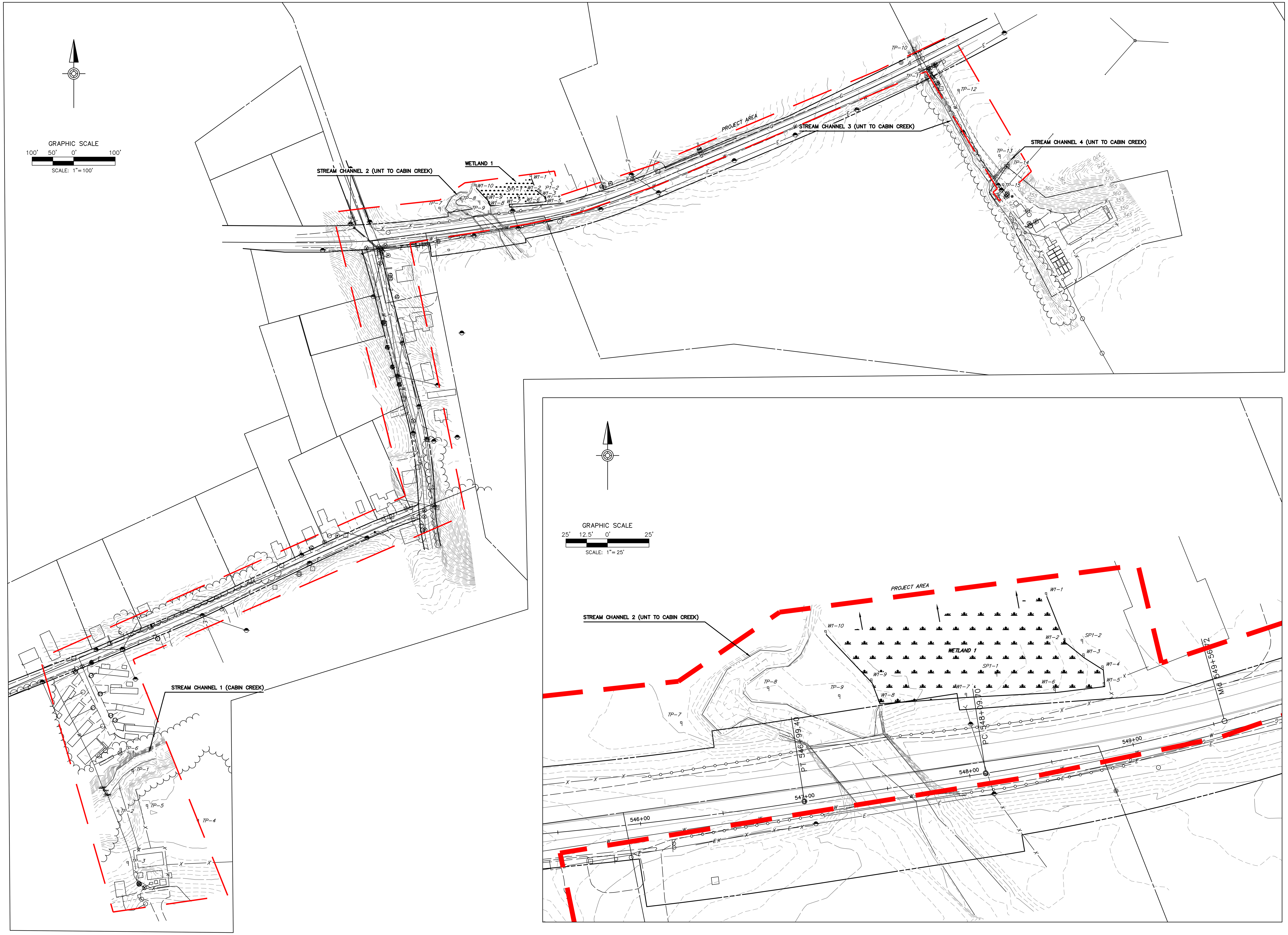
August 13, 2024

Wetlands

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

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

EXHIBIT D
EXISTING CONDITIONS



HRG

HERBERT, ROWLAND & GRUBIC, INC.
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HARRISBURG, PA 17111
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EXISTING CONDITIONS FOR LOWER WINDSOR SANITARY EXTENSION

LOWER WINDSOR TOWNSHIP, YORK COUNTY, PA

PROFESSIONAL SEAL:

HRG PROJECT NUMBER:	5887.0447
PLAN DATE:	4/30/2025
DRAWING SCALE:	AS SHOWN
PROJ. MANAGER:	

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		

SHEET TITLE:
EX COND

SHEET:
EX COND 1

APPENDIX A
WETLAND PHOTOGRAPHS

Picture 1 – Looking north at the existing mobile home park treatment facility in the southwestern portion of the Project Area (4/14/2025)

Picture 2 – Looking north along the western side of the existing mobile home park treatment facility (4/14/2025)

SITE PHOTOGRAPHS **Lower Windsor Sewer Extension** **Lower Windsor Township** **York County, PA**		HRG 369 East Park Drive Harrisburg, PA 17111 717.564.1121 www.hrg-inc.com	DESIGN BM
			SCALE
SHEET: 1	OF: 19	DATE: 4/30/2025	PROJECT 5887.0447

Picture 3 – Low-lying landscaped/mowed lawn area to the northwest of the existing mobile home park treatment facility (area of TP-2) (4/14/2025)

Picture 4 – Landscaped/mowed lawn area to the west of the existing mobile home park treatment facility (area of TP-3) (4/14/2025)

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SHEET: 2	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 5 – Mowed field area to the east of the existing mobile home park treatment facility (area of TP-4) (4/14/2025)

Picture 6 – Mowed field area to the north of the existing mobile home park treatment facility (area of TP-5) (4/14/2025)

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SHEET: 3	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 7 – Looking downstream along Stream Channel 1 (Cabin Creek) to the north of the existing mobile home park treatment facility (4/14/2025)

Picture 8 – Riparian area to the south of Stream Channel 1 (Cabin Creek) (area of TP-1) (4/14/2025)

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SHEET: 4	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 9 – Looking south across Stream Channel 1 (Cabin Creek) from the northern streambank (4/14/2025)

Picture 10 – Area of TP-6 to the north of Stream Channel 1 (Cabin Creek) (4/14/2025)

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				SCALE
SHEET: 5	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 11 – Looking north along 1st Street toward the Furnace Road intersection (4/14/2025)

Picture 12 – Looking south along 1st Street from the Furnace Road intersection (4/14/2025)

SITE PHOTOGRAPHS **Lower Windsor Sewer Extension** **Lower Windsor Township** **York County, PA**			HRG 369 East Park Drive Harrisburg, PA 17111 717.564.1121 www.hrg-inc.com	DESIGN BM SCALE
SHEET: 6	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 13 – Looking east along Furnace Road from the 1st Street intersection (4/14/2025)

Picture 14 – Looking west along Furnace Road from the Snyder Road intersection (4/14/2025)

SITE PHOTOGRAPHS **Lower Windsor Sewer Extension** **Lower Windsor Township** **York County, PA**			HRG 369 East Park Drive Harrisburg, PA 17111 717.564.1121 www.hrg-inc.com	DESIGN BM SCALE
SHEET: 7	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 15 – Looking north along Snyder Road from the Furnace Road intersection (4/14/2025)

Picture 16 – Looking south along Snyder Road from the E Prospect Road intersection (4/14/2025)

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SHEET: 8	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 17 – Looking east along E Prospect Road from the Snyder Road intersection (4/14/2025)

Picture 18 – Looking east along the northern side of E Prospect Road through the open field area toward Stream Channel 2 (UNT to Cabin Creek) at the Snyder Road intersection (4/14/2025)

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Picture 19 – Area of TP-7 adjacent to the west of Stream Channel 2 (UNT to Cabin Creek) (4/14/2025)

Picture 20 – Looking east across Stream Channel 2 (UNT to Cabin Creek)from the western streambank (4/14/2025)

SITE PHOTOGRAPHS **Lower Windsor Sewer Extension** **Lower Windsor Township** **York County, PA**			HRG 369 East Park Drive Harrisburg, PA 17111 717.564.1121 www.hrg-inc.com	DESIGN BM
				SCALE
SHEET: 10	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 21 – Looking west across Stream Channel 2 (UNT to Cabin Creek)to the north of E Prospect Road (4/14/2025)

Picture 22 – Area of TP-8 adjacent to the east of Stream Channel 2 (UNT to Cabin Creek) (4/14/2025)

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				SCALE
SHEET: 11	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 23 – Area of TP-9 adjacent to the east of Stream Channel 2 (UNT to Cabin Creek) (4/14/2025)

Picture 24 – Looking west through Wetland 1 toward Stream Channel 2 (UNT to Cabin Creek) (4/14/2025)

SITE PHOTOGRAPHS **Lower Windsor Sewer Extension** **Lower Windsor Township** **York County, PA**			HRG 369 East Park Drive Harrisburg, PA 17111 717.564.1121 www.hrg-inc.com	DESIGN BM
				SCALE
SHEET: 12	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 25 – Area of SP1-1 within Wetland 1 (4/14/2025)

Picture 26 – Upland, occasionally mowed field adjacent to Wetland 1 (area of SP1-2) (4/14/2025)

SITE PHOTOGRAPHS **Lower Windsor Sewer Extension** **Lower Windsor Township** **York County, PA**			HRG 369 East Park Drive Harrisburg, PA 17111 717.564.1121 www.hrg-inc.com	DESIGN BM
				SCALE
SHEET: 13	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 27 – Looking east along E Prospect Road near the Stream Channel 2 (UNT to Cabin Creek) crossing (4/14/2025)

Picture 28 – Looking west along E Prospect Road from the access road to the existing treatment plant (4/14/2025)

SITE PHOTOGRAPHS **Lower Windsor Sewer Extension** **Lower Windsor Township** **York County, PA**			HRG 369 East Park Drive Harrisburg, PA 17111 717.564.1121 www.hrg-inc.com	DESIGN BM
				SCALE
SHEET: 14	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 29 – Area of TP-10 to the north of E Prospect Road, adjacent to Stream Channel 3 (UNT to Cabin Creek) (4/14/2025)

Picture 30 – Area of TP-11 to the south of E Prospect Road, adjacent to Stream Channel 3 (UNT to Cabin Creek) (4/14/2025)

Picture 31 – Looking south/downstream along Stream Channel 3 (UNT to Cabin Creek) from E Prospect Road (4/14/2025)

Picture 32 – Looking south from E Prospect Road through the active agricultural field to the east of the existing treatment plant access road (4/14/2025)

SITE PHOTOGRAPHS **Lower Windsor Sewer Extension** **Lower Windsor Township** **York County, PA**			HRG 369 East Park Drive Harrisburg, PA 17111 717.564.1121 www.hrg-inc.com	DESIGN BM SCALE
SHEET: 16	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 33 – Area of TP-12 within the active agricultural field to the east of the existing access drive (4/14/2025)

Picture 34 – Area of TP-13 adjacent to Stream Channel 4 (UNT to Cabin Creek) (4/14/2025)

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SHEET: 17	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 35 – Looking upstream from the existing access road crossing of Stream Channel 4 (UNT to Cabin Creek) (4/14/2025)

Picture 36 – Area of TP-14 adjacent to Stream Channel 4 (UNT to Cabin Creek) (4/14/2025)

SITE PHOTOGRAPHS **Lower Windsor Sewer Extension** **Lower Windsor Township** **York County, PA**			HRG 369 East Park Drive Harrisburg, PA 17111 717.564.1121 www.hrg-inc.com	DESIGN BM
				SCALE
SHEET: 18	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

Picture 37 – Looking north across the existing crossing of Stream Channel 4 (UNT to Cabin Creek) (4/14/2025)

Picture 38 – Looking east at the proposed tie-in location to the existing treatment plant (area of TP-15) (4/14/2025)

SITE PHOTOGRAPHS **Lower Windsor Sewer Extension** **Lower Windsor Township** **York County, PA**			HRG 369 East Park Drive Harrisburg, PA 17111 717.564.1121 www.hrg-inc.com	DESIGN BM SCALE
SHEET: 19	OF: 19	DATE: 4/30/2025		PROJECT 5887.0447

APPENDIX B
DATA FORMS

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point:

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Open field Local relief (concave, convex, none): concave

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Chagrin silt loam (Cd) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes** X **No**
Hydric Soil Present?	Yes	X	No		If yes, optional Wetland Site ID: Wetland 1
Wetland Hydrology Present?	Yes	X	No		

Remarks: (Explain alternative procedures here or in a separate report.)

Wetland 1 is an emergent wetland system located in an agricultural field to the north of E. Prospect Road. Vegetation is disturbed by occasional mowing for hay.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- X Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: SP1-1

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. *Poa sp*	100		-
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is disturbed by occasional mowing for hay.

SOIL

Sampling Point: SP1-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr 4/2	95	10yr 3/6	5	C	PL	SiL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** X **No** _____

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: SP1-2

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Open field Local relief (concave, convex, none): convex

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Chagrin silt loam (Cd) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes** **No** X
Hydric Soil Present?	Yes		No	X	If yes, optional Wetland Site ID:
Wetland Hydrology Present?	Yes		No	X	

Remarks: (Explain alternative procedures here or in a separate report.)

SP1-2 was taken in an open field area adjacent to Wetland 1. Vegetation is disturbed by occasional mowing for hay.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: SP1-2

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. *Poa sp*	100		-
2. *Taraxacum officinale*	10	Y	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	110 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is disturbed by occasional mowing for hay.

SOIL

Sampling Point: SP1-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr 4/2	100					loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-1

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Terrace/riparian Local relief (concave, convex, none): Concave

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Codorus silt loam (Cm) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation N , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X
Hydric Soil Present?	Yes		No	X
Wetland Hydrology Present?	Yes		No	X

Is the Sampling Area within a Wetland? **Yes** **No** X

If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

TP-1 was taken adjacent to Cabin Creek in the southern portion of the Project Area.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-1

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.	25	Y	FACU
2.			
3.			
4.			
5.			
	25 = Total Cover		
Herb Stratum (Plot size: 5')			
1. *Impatiens capensis*	20	Y	FACW
2. *Urtica dioica*	20	Y	FACU
3. *Hemerocallis fulva*	35	Y	FACU
4. *Lamium amplexicaule*	10		UPL
5. *Lonicera japonica*	25	Y	FACU
6. *Poa sp*	40		-
7. *Rumex crispus*	10		FAC
8.			
9.			
10.			
	160 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 20 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: TP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr ¾	100					Sandy loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-2

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Landscaped lawn Local relief (concave, convex, none): concave

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Codorus silt loam (Cm) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes**		**No**	X
Hydric Soil Present?	Yes		No	X	If yes, optional Wetland Site ID:			
Wetland Hydrology Present?	Yes		No	X				

Remarks: (Explain alternative procedures here or in a separate report.)

TP-2 was taken in an open, mowed/landscaped lawn area in the southern portion of the Project Area. Vegetation is disturbed by mowing.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-2

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. *Poa sp*	100		-
2. *Viola sp*	15		-
3. *Taraxacum officinale*	10	Y	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	125 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is disturbed by mowing.

SOIL

Sampling Point: TP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr ¾	100					loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-3

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Landscaped lawn Local relief (concave, convex, none): concave

Slope (%): 8-15 Lat: Long: Datum:

Soil Map Unit Name: Urban land – Mt. Airy complex (UfC) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes** **No** X
Hydric Soil Present?	Yes		No	X	If yes, optional Wetland Site ID:
Wetland Hydrology Present?	Yes		No	X	

Remarks: (Explain alternative procedures here or in a separate report.)

TP-3 was taken in an open, mowed/landscaped lawn area in the southern portion of the Project Area. Vegetation is disturbed by mowing.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-3

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. *Poa sp*	100		-
2. *Trifolium repens*	20	Y	FACU
3. *Taraxacum officinale*	10	Y	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	130 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is disturbed by mowing.

SOIL

Sampling Point: TP-3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr ¾	100					SiL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-4

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Open field Local relief (concave, convex, none): concave

Slope (%): 8-15 Lat: Long: Datum:

Soil Map Unit Name: Urban land – Mt. Airy complex (UfC) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes** **No** X
Hydric Soil Present?	Yes		No	X	
Wetland Hydrology Present?	Yes	X	No		If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

TP-4 was taken in an open, mowed field area in the southern portion of the Project Area. Vegetation is disturbed by mowing.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- X Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-4

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. *Poa sp*	100		-
2. *Lamium amplexicaule*	15	Y	UPL
3. *Taraxacum officinale*	5	Y	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	120 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is disturbed by mowing.

SOIL

Sampling Point: TP-4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10yr 4/4	95	10yr 3/6	5	C	PL	SiL	
4-12	10yr 5/3	100					SiL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-5

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Open field Local relief (concave, convex, none): convex

Slope (%): 8-15 Lat: Long: Datum:

Soil Map Unit Name: Urban land – Mt. Airy complex (UfC) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes** **No** X
Hydric Soil Present?	Yes		No	X	
Wetland Hydrology Present?	Yes		No	X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

TP-5 was taken in an open, mowed field area in the southern portion of the Project Area. Vegetation is disturbed by mowing.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-5

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. *Poa sp*	100		-
2. *Viola sp*	10		-
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	110 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is disturbed by mowing.

SOIL

Sampling Point: TP-5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10yr ¾	100					SiL	
4-12	10yr 4/3	100					SiL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-6

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Riparian/mowed/maintained lawn Local relief (concave, convex, none): convex

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Codorus silt loam (Cm) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes**		**No**	X
Hydric Soil Present?	Yes		No	X	If yes, optional Wetland Site ID:			
Wetland Hydrology Present?	Yes		No	X				

Remarks: (Explain alternative procedures here or in a separate report.)

TP-6 was taken in a mowed/maintained lawn area adjacent to the north of Cabin Creek in the southern portion of the Project Area. Vegetation is disturbed by mowing.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-6

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix babylonica*	20	Y	FACW
2. *Acer rubrum*	10	Y	FAC
3. *Cornus florida*	10	Y	FACU
4.			
5.			
	40 = Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. *Berberis thunbergii*	20	Y	FACU
2. *Forsythia suspensa*	20	Y	UPL
3. *Rubus phoenicolasius*	15	Y	FACU
4.			
5.			
	55 = Total Cover		

Herb Stratum (Plot size: 5')			
1. *Poa sp*	100		-
2. *Viola sp*	10		-
3. *Lamium amplexicaule*	15	Y	UPL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	125 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 29 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is disturbed by mowing.

SOIL

Sampling Point: TP-6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10yr 4/2	100					SiL	
3-12	10yr 4/3	100					SiL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-7

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Open field Local relief (concave, convex, none): concave

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Chagrin silt loam (Cd) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes**		**No**	X
Hydric Soil Present?	Yes		No	X	If yes, optional Wetland Site ID:			
Wetland Hydrology Present?	Yes		No	X				

Remarks: (Explain alternative procedures here or in a separate report.)

TP-7 was taken in an open, mowed field adjacent to the west of Stream Channel 2 (Unnamed Tributary to Cabin Creek). Vegetation is disturbed by occasional mowing for hay.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-7

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. *Poa sp*	100		-
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is disturbed by occasional mowing for hay.

SOIL

Sampling Point: TP-7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10yr 3/1	100					SiL	
3-12	10yr 4/2	100					SiL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-8

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Riparian/terrace Local relief (concave, convex, none): concave

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Chagrin silt loam (Cd) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation N , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	X	No		**Is the Sampling Area within a Wetland?** **Yes**		**No** X
Hydric Soil Present?	Yes		No	X	If yes, optional Wetland Site ID:
Wetland Hydrology Present?	Yes		No	X	

Remarks: (Explain alternative procedures here or in a separate report.)

TP-8 was taken in a riparian area adjacent to the east of Stream Channel 2 (UNT to Cabin Creek).

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-8

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Salix nigra*	40	Y	OBL
2.			
3.			
4.			
5.			
	40 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1. *Rosa multiflora*	35	Y	FACU
2.			
3.			
4.			
5.			
	35 = Total Cover		
Herb Stratum (Plot size: 5')			
1. *Impatiens capensis*	35	Y	FACW
2. *Conium maculatum*	25		FACW
3. *Microstegium vimineum*	40	Y	FAC
4. *Hesperis matronalis*	15		FACU
5. *Poa sp*	15		-
6.			
7.			
8.			
9.			
10.			
	130 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

- ___ Rapid Test for Hydrophytic Vegetation
- X Dominance Test is >50%
- ___ Prevalence Index is ≤3.0[1]
- ___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** X **No** ___

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: TP-8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr 4/2	100					Sandy loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-9

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Riparian/terrace Local relief (concave, convex, none): concave

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Chagrin silt loam (Cd) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation N , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X
Hydric Soil Present?	Yes		No	X
Wetland Hydrology Present?	Yes		No	X

Is the Sampling Area within a Wetland? **Yes** **No** X

If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

TP-9 was taken in a riparian/terrace area adjacent to the east of Stream Channel 2 (UNT to Cabin Creek).

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-9

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		

Sapling/Shrub Stratum (Plot size: 15')			
1. *Rosa multiflora*	15	Y	FACU
2.			
3.			
4.			
5.			
	15 = Total Cover		

Herb Stratum (Plot size: 5')			
1. *Poa sp*	100		-
2. *Conium maculatum*	15	Y	FACW
3. *Allium canadense*	5	Y	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	125 = Total Cover		

Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: TP-9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-15	10yr 4/2	100					Sandy loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-10

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Maintained roadside Local relief (concave, convex, none): concave

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Chagrin silt loam (Cd) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes** **No** X
Hydric Soil Present?	Yes		No	X	If yes, optional Wetland Site ID:
Wetland Hydrology Present?	Yes		No	X	

Remarks: (Explain alternative procedures here or in a separate report.)

TP-10 was taken in a maintained/mowed roadside area to the north of E. Prospect Road, adjacent to Stream Channel 3 (UNT to Cabin Creek). Vegetation is disturbed by mowing.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-10

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. *Poa sp*	100		-
2. *Taraxacum officinale*	5	Y	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	105 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is disturbed by mowing.

SOIL

Sampling Point: TP-10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr 4/2	100					SiL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-11

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Maintained roadside Local relief (concave, convex, none): concave

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Chagrin silt loam (Cd) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes** **No** X
Hydric Soil Present?	Yes		No	X	
Wetland Hydrology Present?	Yes		No	X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

TP-10 was taken in a maintained/mowed roadside area to the south of E. Prospect Road, adjacent to Stream Channel 3 (UNT to Cabin Creek). Vegetation is disturbed by mowing.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-11

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. *Poa sp*	100		-
2. *Taraxacum officinale*	20	Y	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	120 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is disturbed by mowing.

SOIL

Sampling Point: TP-11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr 3/3	100					Sandy loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-12

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Active agricultural field Local relief (concave, convex, none): concave

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Chagrin silt loam (Cd) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes** **No** X
Hydric Soil Present?	Yes		No	X	If yes, optional Wetland Site ID:
Wetland Hydrology Present?	Yes		No	X	

Remarks: (Explain alternative procedures here or in a separate report.)

TP-12 was taken in an active agricultural field to the east of the existing access road to the existing treatment facility off of E. Prospect Rd. Vegetation is disturbed by farming.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-12

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. *Thlaspi arvense*	45	Y	UPL
2. *Veronica filiformis*	30	Y	UPL
3. *Lamium purpureum*	15		UPL
4. *Taraxacum officinale*	10		FACU
5. *Poa sp*	40		-
6.			
7.			
8.			
9.			
10.			
	140 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is disturbed by farming.

SOIL

Sampling Point: TP-12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr 4/2	100					loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-13

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Terrace/riparian/active ag field Local relief (concave, convex, none): concave

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Chagrin silt loam (Cd) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes** **No** X
Hydric Soil Present?	Yes		No	X	If yes, optional Wetland Site ID:
Wetland Hydrology Present?	Yes		No	X	

Remarks: (Explain alternative procedures here or in a separate report.)

TP-13 was taken in a semi-forested riparian area adjacent to an active agricultural field and to the north of Stream Channel 4 (UNT to Cabin Creek) to the east of the existing access drive to the existing treatment plant. Vegetation is partially disturbed by farming.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-13

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Celtis occidentalis*	20	Y	FACU
2. *Juglans nigra*	30	Y	FACU
3.			
4.			
5.			
	50 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1. *Lonicera tatarica*	15	Y	FACU
2. *Lindera benzoin*	20	Y	FAC
3.			
4.			
5.			
	35 = Total Cover		
Herb Stratum (Plot size: 5')			
1. *Poa sp*	35		-
2. *Allium canadense*	15	Y	FACU
3. *Alliaria petiolata*	10	Y	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	60 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 17 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is partially disturbed by farming.

SOIL

Sampling Point: TP-13

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr 4/2	100					loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-14

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Terrace/riparian Local relief (concave, convex, none): convex

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Chagrin silt loam (Cd) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation N , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes** **No** X
Hydric Soil Present?	Yes		No	X	
Wetland Hydrology Present?	Yes		No	X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

TP-14 was taken in a riparian area to the south of Stream Channel 4 (UNT to Cabin Creek) and adjacent to a gravel parking area to the east of the existing access road to the existing treatment plant.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-14

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer platanoides*	30	Y	UPL
2. *Prunus pensylvanica*	10	Y	FACU
3.			
4.			
5.			
	40 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1. *Lonicera tatarica*	15	Y	FACU
2. *Rosa multiflora*	20	Y	FACU
3.			
4.			
5.			
	35 = Total Cover		
Herb Stratum (Plot size: 5')			
1. *Lonicera japonica*	25	Y	FACU
2. *Poa sp*	15		-
3. *Solidago sp*	15		-
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	55 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: TP-14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr 3/2	100					Loam	And gravel

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: 5887.0447 Lower Windsor Sewer Extension City/County: York County Sampling Date: 4/14/2025

Applicant/Owner: State: PA Sampling Point: TP-15

Investigator(s): Brandon Meyers Section, Township, Range: Lower Windsor Township

Landform (hillslope, terrace etc.): Mowed lawn/riparian Local relief (concave, convex, none): convex

Slope (%): 0-3 Lat: Long: Datum:

Soil Map Unit Name: Chagrin silt loam (Cd) NWI classification:

Subregion (LRR or MLRA)

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)

Are Vegetation Y , Soils N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation N , Soils N , or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attached site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	**Is the Sampling Area within a Wetland?** **Yes** **No** X
Hydric Soil Present?	Yes		No	X	If yes, optional Wetland Site ID:
Wetland Hydrology Present?	Yes		No	X	

Remarks: (Explain alternative procedures here or in a separate report.)

TP-15 was taken in a mowed lawn area adjacent to Stream Channel 3 (UNT to Cabin Creek) and west of the existing access road to the existing treatment plant. Vegetation is disturbed by mowing.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Surface Observations:

Surface Water Present?	Yes		No	X	Depth (inches):
Water Table Present?	Yes		No	X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes		No	X	Depth (inches):

Wetland Hydrology Present? Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: TP-15

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5')			
1. *Poa sp*	100		-
2. *Taraxacum officinale*	20	Y	FACU
3. *Veronica filiformis*	15	Y	UPL
4. *Trifolium repens*	10	Y	FACU
5.			
6.			
7.			
8.			
9.			
10.			
	145 = Total Cover		
Woody Vine Stratum (Plot size: 30')			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals: (A)	(B)
Prevalence = B/A =	

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is disturbed by mowing.

SOIL

Sampling Point: TP-15

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr 4/2	100					loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10) (**LRR N**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thin Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1) **(LRR N, MLRA 147, 148)**
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) **(MLRA 147, 148)**
- ___ Thin Dark Surface (S9) **(MLRA 147, 148)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Iron-Manganese Masses (F12) **(LRR N, MLRA 136)**
- ___ Umbric Surface (F13) **(MLRA 136, 122)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 148)**
- ___ Red Parent Material (F21) **(MLRA 127, 147)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Much (A10) **(MLRA 147)**
- ___ Coast Prairie Redox (A16) **(MLRA 147, 148)**
- ___ Piedmont Floodplain Soils (F19) **(MLRA 136, 147)**
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____ **Hydric Soil Present?** **Yes** _____ **No** **X**

Remarks:

SECTION 7: EASEMENTS

12/27/91 STP/EVANS.DED (EPB 2)

0295 0523

THIS DEED 000681

MADE the 31st day of Dec., in the year nineteen hundred and ninety-one (1991);

BETWEEN DAVID S. EVANS and JANET D. EVANS, his wife, of Lower Windsor Township, York County, Pennsylvania, hereinafter called the Grantor,

-AND-

EAST PROSPECT BOROUGH AUTHORITY, a municipality authority, incorporated under the laws of the Commonwealth of Pennsylvania, having its offices at 28 West Maple Street, East Prospect, Pennsylvania, hereinafter called the Grantee.

WITNESSETH, that in consideration of TWO THOUSAND FIVE HUNDRED DOLLARS ($2,500.00), in hand paid, the receipt whereof is hereby acknowledged, the said Grantors do hereby grant and convey to the said Grantee,

ALL the following described lot of land situate in Lower Windsor Township, York County, Pennsylvania, being Lot No. 2 on Final Subdivision Plan of David S. & Janet D. Evans, which appears of record in the Office of the Recorder of Deeds in and for York County, Pennsylvania, in Plan Book LL, Page 113, which is more fully bounded, limited and described as follows, to wit:

BEGINNING at a point at other lands of Grantors, at which point a rebar is to be set; thence along said lands and crossing an unnamed tributary to Cabin Creek and an existing gravel drive, North forty-three (43) degrees twenty (20) minutes fifty (50) seconds East, seventy-five and thirty-seven one-hundredths (75.37) feet to a point at said lands at which point a rebar is to be set; thence along said lands, South forty-two (42) degrees eight (08) minutes thirty-one (31) seconds East, one hundred nineteen and eighty-two one-hundredths (119.82) feet to a point at which a rebar is to be set; thence along said lands, North eighty-six (86) degrees forty-seven (47) minutes twenty-eight (28) seconds East, three hundred (300) feet to a point which a rebar is to be set; thence along said lands, South three (03) degrees twelve (12) minutes thirty-two (32) seconds East, one hundred sixty and no one-hundredths (160.00) feet to a point at which a rebar is to be set; thence along said lands, South eighty-six (86) degrees forty-seven (47) minutes twenty-eight (28) seconds West, ninety-nine and twelve one-hundredths (99.12) feet to a point at which a rebar is to be set; thence along said lands, South sixty-nine (69) degrees seven (07) minutes seventeen (17) seconds West, two hundred fifty and no one-hundredths (250.00) feet to a point in said unnamed tributary to Cabin Creek; thence along said lands and in and through said unnamed tributary to Cabin Creek, North eighteen (18) degrees seven (07) minutes twenty-two (22) seconds West, one hundred three and eighty-three one-hundredths (103.83) feet to a point; thence along said lands, and in and through said unnamed tributary to Cabin Creek, North twenty-three (23) degrees thirty-nine (39) minutes twenty-six (26) seconds West, one hundred eighty-eight and eighty-three one-hundredths (188.83) feet [said distance being incorrectly shown on said Final Subdivision Plan as 199.97'] to a point at which a rebar is to be set and the place of BEGINNING. CONTAINING 1.80 acres.

EXCEPTING THEREFROM the 50' x 50' tract of land which George P. Evans and Marie S. Evans, his wife, by deed dated August 17, 1940, and recorded in the York County Recorder of Deeds Office in Record Book 28-H, Page 229, granted and conveyed unto The Borough of East Prospect, which tract was enlarged to 70' x 80' pursuant to Right-of-Way Agreement between said George P. Evans and Marie S. Evans and the Borough of East Prospect dated August 11, 1966, and recorded in said Recorder's Office in Record Book 59-O, Page 963.

TOGETHER WITH:

A. A perpetual right-of-way and easement for access, ingress, egress and regress, at all times and from time to time, and for all purposes and by all means, to, from and between said Lot 2 and West Maple Street extended, a/k/a State Route 124, in, under, over and through the strip of land shown on said Final Minor Subdivision Plan and labeled "25' Wide Access Right-of-Way", in favor of this Authority, its successors and assigns, as the owners and lawful occupiers of the land situated within the perimeter of said Lot 2. The within described rights and the corresponding burdens of this easement and right-of-way shall run with the land. This Authority, its successors and assigns shall have the right, at any time and from time to time, to improve said strip of land in such fashion as they deem necessary or appropriate in connection with the use thereof for access, ingress, egress and regress as aforesaid, including by way of example and not limitation the grading and paving of said strip and the installing of wires and pipes in, on, or under said strip, and the maintaining and renewing of any such improvements; and

B. A perpetual right-of-way and easement in, under, over and through the strip of land shown on said Final Minor Subdivision Plan and labeled "20' Wide Drainage Right-of-Way" for the purpose of receiving the discharge of effluent from said sewage treatment plant and the conveyance of said effluent to Cabin Creek.

UNDER AND SUBJECT, NEVERTHELESS, to existing easements, if any, without adding to or reinforcing the present legal force and effect thereof.

IT BEING part of the same premises which Janet D. Evans and David S. Evans, her husband, by deed dated May 25, 1988, and recorded November 30, 1988, in the Office of the Recorder of Deeds in and for York County, Pennsylvania, in Record Book 101-H, Page 454, granted and conveyed unto David S. Evans, who is joined by his wife, Janet D. Evans, the Grantors herein.

AND the said Grantors hereby covenant and agree that they will warrant specially the property hereby conveyed, except as aforesaid.

IN WITNESS WHEREOF, said Grantors have hereunto set their hands and seals the day and year first above written.

Signed, Sealed and Delivered
in the Presence of

_____ David S. Evans (SEAL)
DAVID S. EVANS

_____ Janet D. Evans (SEAL)
JANET D. EVANS

Grantors

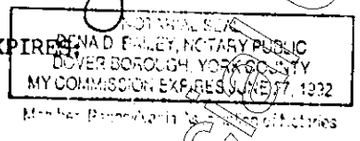
COMMONWEALTH OF PENNSYLVANIA :
: SS.
COUNTY OF YORK :

ON THIS 31st day of December, 1991, before me, a Notary Public, in and for the Commonwealth of Pennsylvania and County of York, personally appeared the above-named DAVID S. EVANS and JANET D. EVANS, his wife, who acknowledged the foregoing deed to be their act and deed, and desired the same to be recorded as such.

WITNESS my hand and notarial seal the day and year aforesaid.

_____
NOTARY PUBLIC

MY COMMISSION EXPIRES:



The address of the above-named Grantee is 28 West Maple Street, East Prospect, PA 17317.

_____
Harry L. Mensal, Jr.
On behalf of Grantee

12/27/91 STP/EVANS.DED (EPB 2)

0295 0526

COMMONWEALTH OF PENNSYLVANIA :
: SS.
COUNTY OF YORK :

RECORDED on this _____ day of _____, A.D. 19___, in the Recorder's Office of the said County, in Deed Book Vol. _____, Page _____.

Given under my hand and the seal of the said office, the date above written.

_____, Recorder.

I Certify This Document To Be
Recorded In York County, Pa.

REV-183 XX (12-88)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF REVENUE
BUREAU OF INDIVIDUAL TAXES
DEPT 280602
HARRISBURG, PA 17128-0602

REALTY TRANSFER TAX STATEMENT OF VALUE

See Reverse for Instructions

0527

RECORDER'S USE ONLY	
State Tax Paid	None
Book Number	
Page Number	
Date Recorded	1-6-92

Complete each section and file in duplicate with Recorder of Deeds when (1) the full value/consideration is not set forth in the deed, (2) when the deed is without consideration, or by gift, or (3) a tax exemption is claimed. A Statement of Value is not required if the transfer is wholly exempt from tax based on: (1) family relationship or (2) public utility easement. If more space is needed, attach additional sheet(s).

A. CORRESPONDENT - All inquiries may be directed to the following person:

Name: Harry L. McNeal Jr.
Telephone Number: Area Code (717) 848-1308
Street Address: 31 E. Princess Street
City: York
State: PA
Zip Code: 17403

B. TRANSFER DATA

Date of Acceptance of Document:

Grantor(s)/Lessor(s)	Grantee(s)/Lessee(s)
David S. Evans	East Prospect Borough Authority
Street Address: RD #13, Box 133	Street Address: 25 W. Maple St
City: York	City: East Prospect
State: PA	State: PA
Zip Code: 17406	Zip Code:

C. PROPERTY LOCATION

Street Address: South of Route 124
City, Township, Borough: Lower Windsor Twp
County: York
School District: Eastern
Tax Parcel Number: Part of Parcel 93, Map 7L

D. VALUATION DATA

1. Actual Cash Consideration	2. Other Consideration	3. Total Consideration
$2,500.00	+ 0	= $2,500
4. County Assessed Value	**5. Common Level Ratio Factor**	**6. Fair Market Value**
No separate assessment	×	= $2,500

E. EXEMPTION DATA

1a. Amount of Exemption Claimed	1b. Percentage of Interest Conveyed
$2,500.00	100%

2. Check Appropriate Box Below for Exemption Claimed

- ☐ Will or intestate succession _____ (Name of Decedent) _____ (Estate File Number)
- ☐ Transfer to Industrial Development Agency.
- ☐ Transfer to agent or straw party. (Attach copy of agency/straw party agreement).
- ☐ Transfer between principal and agent. (Attach copy of agency/straw trust agreement). Tax paid prior deed $ _____.
- ☒ Transfers to the Commonwealth, the United States, and Instrumentalities by gift, dedication, condemnation or in lieu of condemnation. (Attach copy of resolution).
- ☐ Transfer from mortgagor to a holder of a mortgage in default. Mortgage Book Number _____, Page Number _____.
- ☐ Corrective deed (Attach copy of the prior deed).
- ☐ Statutory corporate consolidation, merger or division. (Attach copy of articles).
- ☐ Other (Please explain exemption claimed, if other than listed above.) _____

Under penalties of law, I declare that I have examined this Statement, including accompanying information, and to the best of my knowledge and belief, it is true, correct and complete.

Signature of Correspondent or Responsible Party	Date
[signature]	1/6/92

(SEE REVERSE)

6046

YORK COUNTY ASSESSMENT OFFICE 1104308

UPI No.: 35-000-JL-0092.00-00000
East Prospect Road, Lower Windsor Township
35-000-JL-0214

DEED

MADE this 7th day of February, 2014

BETWEEN **EAST PROSPECT BOROUGH AUTHORITY,** a municipal authority incorporated under the laws of the Commonwealth of Pennsylvania, having its offices at 28 West Maple Street, East Prospect, Pennsylvania, hereinafter,

GRANTOR

AND **THE YORK WATER COMPANY,** a public utility organized and existing under the laws of the Commonwealth of Pennsylvania, with its offices located at 130 East Market Street, York, York County, Pennsylvania, 17401,

GRANTEE

WITNESSETH, that in consideration of **SIXTY-FIVE THOUSAND AND 00/100 DOLLARS ($65,000.00)**, in hand paid, the receipt whereof is hereby acknowledged, the said Grantor does grant and convey to the said Grantee, its successors and assigns:

ALL that certain tract of land situate in **LOWER WINDSOR TOWNSHIP**, York County, Pennsylvania, and being Lot 2 as shown on Final Subdivision Plan of David S. and Janet D. Evans, which appears of record in the Office of the Recorder of Deeds in and for York County, Pennsylvania, in Plan Book LL, Page 113, which is more fully bounded, limited and described as follows, to wit:

BEGINNING at a point at other lands of Grantors, at which point a rebar is to be set; thence along said lands and crossing an unnamed tributary to Cabin Creek and an existing gravel drive, North forty-three (43) degrees twenty (20) minutes fifty (50) seconds East, seventy-five and thirty-seven one-hundredths (75.37) feet to a point at said lands at which point a rebar is to be set; thence along said lands, South forty-two (42) degrees eight (08) minutes thirty-one (31) seconds East, one hundred nineteen and eighty-two one-hundredths (119.82) feet to a point at which a rebar is to be set; thence along said lands, North eighty-six (86) degrees forty-seven (47) minutes twenty-eight (28) seconds East, three hundred (300) feet to a point which a rebar is to be set; thence along said lands, South three (03) degrees twelve (12) minutes thirty-two (32) seconds East, one hundred sixty and no

0432051-

one-hundredths (160.00) feet to a point at which a rebar is to be set; thence along said lands, South eighty-six (86) degrees forty-seven (47) minutes twenty-eight (28) seconds West, ninety-nine and twelve one-hundredths (99.12) feet to a point at which a rebar is to be set; thence along said lands, South sixty-nine (69) degrees seven (07) minutes seventeen (17) seconds West, two hundred fifty and no one-hundredths (250.00) feet to a point in said unnamed tributary to Cabin Creek; thence along said lands and in and through said unnamed tributary to Cabin Creek, North eighteen (18) degrees seven (07) minutes twenty-two (22) seconds West, one hundred three and eighty-three one-hundredths (103.83) feet to a point; thence along said lands, and in and through said unnamed tributary to Cabin Creek, North twenty-three (23) degrees thirty-nine (39) minutes twenty-six (26) seconds West, one hundred eighty-eight and eighty-three one-hundredths (188.83) feet [said distance being incorrectly shown on said Final Subdivision Plan as 199.97'] to a point at which a rebar is to be set and the place of **BEGINNING. CONTAINING** 1.80 acres.

TOGETHER WITH:

A. A perpetual right-of-way and easement for access, ingress, egress and regress, at all times and from time to time, and for all purposes and by all means, to, from and between said Lot 2 and West Maple Street extended, a/k/a State Route 124, in, under, over and through the strip of land shown on said Final Minor Subdivision Plan and labeled "25' Wide Access Right-of-Way", in favor of this Authority, its successors and assigns, as the owners and lawful occupiers of the land situated within the perimeter of said Lot 2. The within described rights and the corresponding burdens of this easement and right-of-way shall run with the land. This Authority, its successors and assigns shall have the right, at any time and from time to time, to improve said strip of land in such fashion as they deem necessary or appropriate in connection with the use thereof for access, ingress, egress and regress as aforesaid, including by way of example and not limitation to grading and paving of said strip and the installing of wires and pipes in, on, or under said strip, and the maintaining and renewing of any such improvements; and

B. A perpetual easement and right-of-way to construct, install, lay, use, operate, inspect, repair, maintain, replace, enlarge and remove a sanitary sewer line, together with all fitting and appurtenances thereto (including a headwall at or near the bank of Cabin Creek) as may be necessary or convenient for the operation of the same, across, under, upon and over a Twenty foot (20') strip of land now or formerly owned by David S. and Janet D. Evans, as more fully described in a Right-of-Way Agreement, dated January 10, 2008, recorded in the Office of the Recorder of Deeds in and for York County at Record Book 1949, Page 3965, and re-recorded at Record Book 1957, Page 7671, to attach an Exhibit.

PROVIDED, HOWEVER THAT the perpetual right-of-way and easement in, under, over and through the strip of land shown on the Final Subdivision Plan of David S. and Janet D. Evans,

recorded in the Office of the Recorder of Deeds in and for York County at Plan Book LL, Page 113, and labeled "20' Wide Drainage Right-of-Way" as identified in the prior Deed, dated December 31, 1991, and recorded in the Office of the Recorder of Deeds in and for York County at Record Book 295, Page 523; was terminated pursuant to a Release, Discharge and Termination of Easements, dated January 10, 2008, and recorded in the Office of the Recorder of Deeds in and for York County at Record Book 1949, Page 3958 and re-recorded at Record Book 1957, Page 7580, to attach an Exhibit.

UNDER AND SUBJECT to all restrictions, conditions, covenants, agreements, easements and rights-of-way of record or appearing on the ground, and to all matters affecting the above-described premises as set forth on the aforementioned Plan.

IT BEING the same premises which David S. Evans and Janet D. Evans, his wife, by deed dated December 31, 1991, and recorded in the Office of the Recorder of Deeds in and for York County, Pennsylvania, in Record Book 295, Page 523, granted and conveyed unto East Prospect Borough Authority, a municipal authority, Grantor herein.

ALSO BEING the same premises which George P. Evans and Marie S. Evans, his wife, by deed dated August 17, 1940 and recorded in the Office of the Recorder of Deeds in and for York County, Pennsylvania, in Record Book 28-H, Page 229, granted and conveyed unto the Borough of East Prospect. **AND ALSO BEING** the same premises which the Borough East Prospect, by Deed dated February 4, 2014 and about to be recorded in the Office of the Recorder of Deeds in and for York County, Pennsylvania, granted and conveyed unto East Prospect Borough Authority, a municipal authority, Grantor herein.

AND the said Grantor hereby covenants and agrees that it will warrant specially the property hereby conveyed.

IN WITNESS WHEREOF, said Grantor has hereunto set its hand and seal the day and year first above written.

SIGNED, SEALED, DELIVERED IN THE PRESENCE OF:

ATTEST:

Mindy K Borshinger
Secretary

EAST PROSPECT BOROUGH AUTHORITY

By David B. Mass (SEAL)
Name: DAVID B MASSA
Title: CHAIRMAN

0132051-

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF YORK :

On this, the 7th day of February, 2014, before me, a Notary Public in and for the Commonwealth of Pennsylvania, the undersigned officer, personally appeared David B. Nasse, who acknowledged himself to be the Chairman of East Prospect Borough Authority, a municipal authority, and that he as such officer, executed the foregoing instrument for the purposes therein contained by signing his name as such officer.

IN WITNESS WHEREOF, I hereunto set my hand and notarial seal.

Theresa M. Ayers
NOTARY PUBLIC

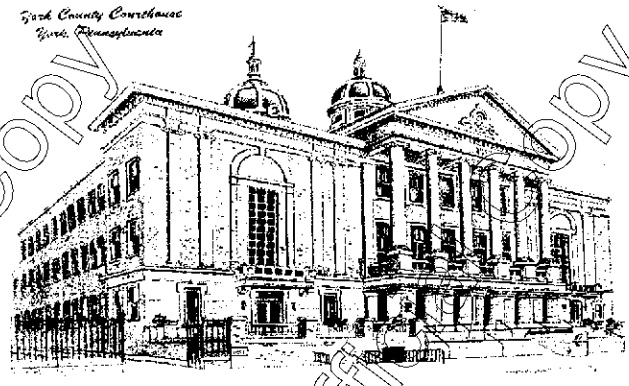
COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Theresa M. Ayers, Notary Public
City of York, York County
My Commission Expires Sept. 13, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

I HEREBY CERTIFY that the precise and complete post office address of the within named Grantee is: 130 East Market Street, York, PA 17401

February 7, 2014

Ronald L. Hershner, Esquire
Attorney for Grantee

0332051-



YORK COUNTY RECORDER OF DEEDS
28 EAST MARKET STREET
YORK, PA 17401

Randi L. Reisinger - Recorder
Bradley G. Daugherty - Deputy

Instrument Number - 2014006046
Recorded On 2/18/2014 At 10:11:44 AM
*** Instrument Type - DEED**
Invoice Number - 1084606
*** Grantor - EAST PROSPECT BOROUGH AUTHORITY**
*** Grantee - YORK WATER COMPANY**
User - JMR
*** Customer - STOCK & LEADER / CHRIS**

Book - 2268 Starting Page - 5693
*** Total Pages - 5**

*** Received By: COUNTER**

PARCEL IDENTIFICATION NUMBER
35000JL00920000000
35000JL02190000000
Total Parcels: 2

*** FEES**

STATE TRANSFER TAX	$650.00
STATE WRIT TAX	$0.50
JCS/ACCESS TO JUSTICE	$23.50
RECORDING FEES	$13.00
AFFORDABLE HOUSING	$11.50
PIN NUMBER FEES	$20.00
COUNTY ARCHIVES FEE	$2.00
ROD ARCHIVES FEE	$3.00
EASTERN YORK SCHOOL	$325.00
REALTY TAX	
LOWER WINDSOR TOWNSHIP	$325.00
TOTAL PAID	$1,373.50

I Certify This Document To Be Recorded In York County, Pa.

RANDI L. REISINGER • RECORDER'S OFFICE • YORK COUNTY, PA •

Randi L. Reisinger
Recorder of Deeds

THIS IS A CERTIFICATION PAGE

PLEASE DO NOT DETACH

THIS PAGE IS NOW PART OF THIS LEGAL DOCUMENT

*** - Information denoted by an asterisk may change during the verification process and may not be reflected on this page.**

Book: 2268 Page: 5697

Parcel Identification No. 35000JL0082M
Property Location: Lower Windsor Township, York County

PERMANENT UTILITY AND ACCESS EASEMENT AGREEMENT

This **PERMANENT UTILITY AND ACCESS EASEMENT AGREEMENT** (this "Agreement") is made this 7th day of February 2024, by and between, **MARGARETTA MHP, LLC,** a Pennsylvania limited liability company with a current mailing address of c/o Foote Property Management, 2678 Mount Rose Avenue, York, Pennsylvania 17402 ("Grantor") and **THE YORK WATER COMPANY**, a corporation organized under the laws of the Commonwealth of Pennsylvania, having its principal place of business at 130 East Market Street, York, Pennsylvania ("Grantee") (Grantor and Grantee may be collectively referred to hereinafter as the "Parties.")

RECITALS

WHEREAS, Grantor intends to maintain residential facilities on one tract of land in Lower Windsor Township, York County, PA owned by the Grantor, said tract of land identified as York County Tax Parcel No. 35000JL0082M (the "Property"); and

WHEREAS, Grantee is a public utility that supplies wastewater collection and treatment utility service to customers throughout York, Adams, Lancaster and Franklin Counties in Pennsylvania; and

WHEREAS, in order to better serve the Grantor, Grantee has proposed to operate and maintain existing wastewater mains and facilities, and construct, as needed, new wastewater collection mains and related facilities on the Property in order to provide a continuous wastewater service to the residents of the Margaretta Mobile Home Park; and

WHEREAS, Grantor is willing to grant to Grantee the Easements herein described pursuant to the terms set forth in this Agreement.

NOW, THEREFORE, the Parties, intending to be legally bound hereby, and in consideration of the payment of ONE DOLLAR ($1.00), receipt of which is hereby acknowledged, as well as the mutual covenants contained herein, do hereby agree as follows:

1. Incorporation of Recitals.

The above Recitals are hereby incorporated into this Agreement as if set forth herein.

2. Permanent Utility Easement.

Grantor grants and conveys to Grantee, its successors and assigns, a Permanent Utility Easement in and across the entire Property, all as more fully shown on the attached plan, incorporated herein and marked as **Exhibit A**. The Permanent Utility Easement shall be for the purpose of maintaining, constructing and operating wastewater mains and related infrastructure, as determined by the Grantee in its discretion, together with all fittings and appurtenances as may be necessary or convenient from time to time for the proper and efficient operation and maintenance of the wastewater collection and conveyance system, and thereafter, to use, operate, inspect, repair, maintain, replace, relocate, enlarge, alter, upgrade, remove or otherwise maintain the wastewater mains and related infrastructure and appurtenances, together with all rights of ingress, egress and regress on, over and across said Permanent Utility Easement as may be necessary and convenient for the full and complete use by the Grantee of the rights granted hereby, including the right to clear trees, brush and other obstructions from the surface of the Easement Area that may impact Grantee's ability to execute any activity incidental to the rights granted in this Agreement. Grantee's obligation to its wastewater customers and Grantee's ownership of wastewater collection facilities installed extend to the service line valve as described in Grantee's Tariff. This grant of the Permanent Utility Easement on the Property shall include the right to maintain and relocate the facilities installed within the limits of the Easement, from time to time, and at any time in Grantee's discretion. Hereafter, Grantor shall remain obligated to operate, maintain, repair, and replace, as needed the customer side of the wastewater service, which begins

at the lateral connection to the residential unit(s) and includes all customer side facilities that exist at Closing and any such facilities that are installed on the customer side in the future.

3. Consideration.

The consideration set forth in this Agreement is full and complete consideration for the Easements herein granted, and for any and all damage to the Property, to any interest of Grantor therein, or any other property of Grantor.

4. Title to Property.

Grantor hereby warrants and represents to Grantee that Grantor holds good and marketable title to the Property, insurable by a reputable title company at regular rates, free and clear of liens and encumbrances except those disclosed to Grantee in writing and accepted by Grantee.

5. Termination Rights

In addition to providing access to wastewater collection facilities, the Easements created by this Agreement shall allow the Grantee to invest in and construct/repair/replace/maintain a wastewater collection system, or parts thereof, to serve the Grantor's existing community of approximately 62 existing occupied mobile home lots, which includes one occupied farmhouse. The payments provided under this Paragraph 5 are intended to compensate Grantee for investment in facilities in the event Grantor terminates operation of the Margaretta Mobile Home Park. Ownership of the collection system assets will not be transferred by Grantee to Grantor upon payment, and the provisions of this Paragraph 5 do not represent a sale of such assets by Grantee. Grantee may continue to retain and use any and all easements granted under this Agreement to the extent necessary to continue to provide public wastewater utility service to any customers of Grantee. Reference to abandoning facilities in Paragraph 5A and abandonment of facilities in Paragraph 5D of this Agreement do not contemplate a transaction to abandon service nor supersede or limit the Pennsylvania Public Utility Commission's authority under 66 Pa.C.S. §1102(a)(2). Therefore, Grantor and Grantee agree;

A. For a period of twenty-five (25) years following the grant of these Easements, if Grantor desires to terminate this Agreement, in whole or in part, Grantor agrees to pay Grantee an amount equal to the then current depreciated original cost of Grantee's wastewater main, wastewater service line relocation program and facilities to be abandoned as a result of the termination of this Agreement, which original cost shall not exceed one hundred thousand dollars ($100,000.00) dollars; and

B. For a period of twenty-five (25) years following the grant of these Easements, if Grantor desires to terminate this Agreement, in whole or in part, Grantor agrees to additionally pay fifty thousand dollars ($50,000.00) to Grantee; and

C. For a period of ten (10) years following the grant of these Easements, if Grantor desires to terminate this Agreement, in whole or in part, Grantor agrees to pay Grantee an additional amount equal to York Water's system-wide average residential wastewater revenue per customer during the calendar year preceding termination of this Agreement, multiplied by one-hundred and fifty (150), and multiplied by the years remaining in the initial ten (10) year period; and

D. Provisions in Paragraphs 4.B. and 4.C. above shall not apply if, within eighteen (18) months following abandonment, a follow on use is established which results in a source of revenue for Grantee that is equal to or higher than the previous average monthly revenue generated for Grantee by wastewater services to this Property.

6. Grantee's Costs.

Grantee shall be solely responsible for all costs and expenses associated with the construction, installation, maintenance, repair, inspection and operation of its facilities on the Property in the Permanent Utility Easement Area.

7. Indemnification

Grantee agrees to release, hold harmless and indemnify Grantor from and against any and all claims, whether at law or equity, for damages of any kind whatsoever arising directly or indirectly from the construction, installation, maintenance, repair, inspection and operation of the wastewater facilities contemplated hereunder including, but not limited to, injury to person or property or loss of life, except to the extent caused by the negligence or willful misconduct of Grantor, or its officers, agents, employees, invitees, agents or contractors.

8. No Interference or Obstruction.

Said Grantor, for itself, its successors and assigns, hereby covenants and agrees to and with the Grantee, its successors and assigns, that neither it nor any of its successors or assigns, shall or will in any way whatsoever, interfere with the exercise of the rights hereby given the Grantee, its successors and assigns, or shall or will erect or maintain or cause or allow to be erected or maintained, any obstruction(s) of any nature whatsoever, including but not by way of limitation, any structure, wall, fence, pole, tree, shrubbery, garden, structure, septic tank, drain field, cesspool, dry well, nor any other impediment of any nature whatsoever not hereinbefore enumerated in, on, under, along or upon said strips or tracts of land whereby access to the facilities, pipe or pipes, wires, valves, fittings, appliances, accessories and other appurtenant equipment hereinbefore authorized to be laid shall or may be hindered, impeded or damaged in any manner whatsoever. In the event of any such obstruction, hindrance or impediment, with the exception of pre-existing structures located within the easement as of the date of this Agreement, the same may be removed without payment of damages by the Grantee, its successors or assigns, whenever such action shall reasonably be deemed by it to be necessary or advisable, and further covenants and agrees that this covenant and agreement and all of the terms, provisions and agreements of Grantor herein made shall run with the land, and further the Grantor does hereby warrant specially the easement hereby granted and Grantor's title to the premises in, on, under, along and upon which the said right of way is granted against adverse mortgages, judgments and other liens.

9. Grantee's Covenant to Backfill.

Grantee covenants and agrees for itself, its successors and assigns, that it, or its successors or assigns, respectively, shall and will, from time to time, backfill any excavations made by it or them, respectively, in said easement or Property. Except to the extent that there may be any violations of the provisions of the previous Paragraph 8, Grantee shall replace and restore the surface of the excavation area to the same grade and condition as existed before such excavation(s) were made.

10. Personal Property.

It is the intention of the Parties hereto, for themselves and their successors or assigns, that none of the facilities being now or at any time hereafter installed on the Property by Grantee shall be deemed to be or shall become part of the real estate or subject to any mortgage, lien or encumbrance thereon. Rather, the wastewater collection and related facilities located and to be located on the Property shall, at all times, remain the personal property of the Grantee, its successors or assigns.

11. Binding Agreement.

This Agreement shall be binding upon the Parties, their successors and assigns, and the Easements herein granted shall run with the land.

12. No Amendment or Modification.

The Easements granted herein shall not be altered, modified, limited, amended or terminated, except by means of a written instrument(s), executed by both Grantor and Grantee. This Agreement and any subsequent amendment or modification may be recorded in the Office of Recorder of Deeds in and for York County, Pennsylvania.

[Signatures Follow]

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be duly executed by their authorized representatives and officers as of the date first above written.

GRANTOR:

ATTEST:

MARGARETTA MHP, LLC

Diana A. Silva

By: _____
Name: Steve Foote

COMMONWEALTH / STATE OF PENNSYLVANIA

SS. COUNTY OF ~~YORK~~ Montgomery

On this 15th day of February, 2024, before me, a Notary Public, the undersigned, personally appeared **Steve Foote**, known to me (or satisfactorily proven) to be the owner of the parcels described within and acknowledged that (s)he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Nancy A Valleras

Notary Public

Commonwealth of Pennsylvania - Notary Seal
NANCY A. VALLERAS, Notary Public
Montgomery County
My Commission Expires September 2, 2024
Commission Number 1170526

GRANTEE:

ATTEST:

THE YORK WATER COMPANY

Secretary

Joseph T. Hand, President and CEO

COMMONWEALTH / STATE OF PENNSYLVANIA

(SS.

COUNTY OF YORK

On this 7TH day of FEBRUARY, 2024, before me, a Notary Public, the undersigned officer, personally appeared **Joseph T. Hand**, known to me (or satisfactorily proven) to be the President and CEO of The York Water Company and acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Molly Elizabeth Norton

Notary Public

Commonwealth of Pennsylvania - Notary Seal
Molly Elizabeth Norton, Notary Public
York County
My commission expires March 3, 2025
Commission number 1307000
Member, Pennsylvania Association of Notaries

EXHIBIT A

York Water Easement shall encompass: All existing wastewater lines and service lines; and an additional ten (10) feet on either side of existing wastewater lines and related infrastructure lines; and reasonable access to said wastewater lines and related infrastructure, excluding service laterals; and all existing paved roads and driveways; and an additional ten (10) feet on either side of all existing paved roads and driveways for installation and access to future wastewater facilities.

[Insert facility map]