WATERS DELINEATION REPORT

MAM14_U1 PIPELINE AND WATERLINE BELL AND WASHINGTON TOWNSHIPS, WESTMORELAND COUNTY, PENNSYLVANIA

Prepared For:

CNX MIDSTREAM OPERATING COMPANY LLC 1000 HORIZON VUE DRIVE CANONSBURG, PENNSYLVANIA 15317

Prepared By:

CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 4350 NORTHERN PIKE, SUITE 141 MONROEVILLE, PENNSYLVANIA 15146

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Civil & Environmental Consultants, Inc.

Monroeville

4350 Northern Pike, Suite 141 | Monroeville, PA 15146 | p: 800-899-3610 f: 724-327-5280 | www.cecinc.com

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1.0 INTRODUCTION

Civil & Environmental Consultants, Inc. (CEC) conducted a waters delineation of the MAM14 U1 Pipeline and Waterline project located in Bell and Washington Townships, Westmoreland County, Pennsylvania (Figure 1; all figures referenced in this report are in Appendix A). The proposed project includes construction of a new pipeline in an existing pipeline right-of-way. This report includes the findings of a desktop data review and field delineations of current site conditions. The purpose of these investigations was to identify, characterize, and delineate wetlands, streams, and other waters located within the Project's study area. This report presents the methodology and findings of the study.

2.0 METHODS

2.1 PRELIMINARY ENVIRONMENTAL DATA REVIEW

Prior to the field study, the following data sources were consulted to aid in the identification of potential wetlands, streams, and other waters within the study area:

- U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle maps;
- Google Earth Pro aerial imagery;
- U.S. Department of Agriculture, Natural Resource Conservation Service (USDA-NRCS) Soil Survey Geographic (SSURGO) Database;
- Federal Emergency Management Agency (FEMA) 100-year floodplain data;
- U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI); and
- National Hydrography Dataset (NHD) stream and other waters data.

These publicly available data sources aided in overall habitat characterizations and facilitated identification of potential water resources within the study area; areas of topographic depressions, mapped hydric soils, mapped NHD streams, NWI wetlands, and FEMA floodplains have higher potential to contain wetlands, streams, and other surface water features.

The data gathered were used to produce field mapping of the study area established for this project, and a field sampling plan was developed based on the desktop data review to adequately cover the study area and to intersect all land cover types and areas of interest, including areas identified to have higher potential for supporting surface water features.

2.2 WETLAND DELINEATION

During the field study, CEC ecologists identified, characterized, and delineated wetlands in accordance with the routine, on-site determination methodology described in the U.S. Army Corps of Engineers' (USACE) *Corps of Engineers Wetlands Delineation Manual* (Environmental

Laboratory 1987; referred to hereafter as Corps Manual), supplemented by the following technical guidance documents:

- Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0) (USACE 2012); (referred to hereafter as Regional Supplement);
- National Wetland Plant List (USACE 2020); and
- Field Indicators of Hydric Soils in the United States Version 8.2 (USDA-NRCS 2018).

CEC ecologists walked the study area and collected data at representative locations within each plant community cover type and areas of interest. Data collected at each sampling point were recorded on USACE Wetland Determination Data Forms. The sampling plan was modified as necessary if additional plant community cover types or areas of interest (e.g., localized depressions, converging slopes, evident hydrology, etc.) were encountered.

At each sampling point, the following parameters were assessed: vegetation, soils, and hydrology. First, visual estimates of percent absolute cover of plant species were recorded for each of the following strata, when present: tree, sapling/shrub, herb, and woody vine. A determination of whether the plant community was dominated by hydrophytic (wetland) plants was then made using the Rapid Test or Dominance Test indicators. Next, soils were sampled to a depth of 16 inches unless infeasible due to refusal, and the soil profile was evaluated to determine if it met hydric soil indicators. Lastly, indicators of wetland hydrology (e.g., surface water, high water table, saturation, etc.) were recorded, if present. If a parameter was determined to be significantly disturbed or naturally problematic, procedures described in the Corps Manual and Regional Supplement for atypical and problematic situations were applied.

The on-site sampling point data were used to determine whether that point was located in a wetland or non-wetland (i.e., upland). If a wetland was identified, further sampling was performed to delineate the wetland/non-wetland boundary. Each wetland was also classified according to the system developed by Cowardin et al. (1979). If more than one Cowardin classification type was identified within a wetland, the boundary between the types was delineated. Wetland boundaries

were physically marked in the field with flagging tape and located using mapping-grade handheld Global Navigational Satellite System (GNSS) receivers rated with sub-meter accuracy under optimal conditions.

Upland habitats were also recorded on USACE Wetland Determination Data Forms. Upland sampling points were documented adjacent to wetland delineation boundaries, as well as at representative upland habitats throughout the study area.

2.3 STREAM AND OTHER WATERS DELINEATION

Concurrent with wetland delineations, CEC ecologists assessed the site for streams and other waters such as ponds, ditches, seeps, springs, vernal pools, etc. These waters were identified by the presence of an ordinary high water mark (OHWM) in accordance with USACE Regulatory Guidance Letter No. 05-05: Ordinary High Water Mark Identification (USACE 2005). As described in RGL05-05, physical characteristics typically used to evaluate the presence of an OHWM include defined bed and banks, destruction of terrestrial vegetation, sediment sorting, a natural line impressed upon the bank, shelving, and leaf litter that is disturbed or washed away. In addition, all watercourses, which include streams, are defined in Pennsylvania as a channel or conveyance of surface water having defined bed and banks, whether natural or artificial (25 Pa. Code §105.1). The federal and state guidance were applied to determine the extents of streams.

All streams were further assessed into three classifications of flow: ephemeral, intermittent, or perennial. These classifications are defined (following state and federal guidance) as follows:

- **Ephemeral** –surface water flows or pools only in direct response to precipitation (e.g., rain or snow fall);
- **Intermittent** –surface water flows continuously during certain times of the year and more than in direct response to precipitation (e.g., seasonally when the groundwater table is elevated or when snowpack melts); and

• **Perennial** – surface water flows continuously year-round during normal rainfall. Ground water provides the primary hydrology.

The uppermost limit of an ephemeral stream was established where the stream loses its defined bed and bank or OHWM. Stream boundaries were marked in the field with flagging tape and located using GNSS receivers rated with sub-meter accuracy. The physical characteristics of the streams and field observations were summarized on field data forms.

3.0 **RESULTS**

3.1 ENVIRONMENTAL DATA REVIEW

A review of the USGS 7.5-minute topographic quadrangles and NHD stream layer identified three streams within the study area (Figures 1 and 2). These streams include Beaver Run, Trib 42938 to Beaver Run, and Trib 42945 to Beaver Run. A review of the NWI data also identified the same named stream resources within the study area (Figure 2). The NWI classifies Beaver Run and Trib 42938 to Beaver Run as riverine wetlands (R3UBH) and Trib 42945 to Beaver Run as a palustrine forested wetland (PFO1A). No FEMA 100-year floodplains occur within the study area. A review of the SSURGO data identified 12 soil mapping units within the study area (Table 1 and Figure 2).

Soil Map Unit Symbol	Soil Map Unit Name	Drainage Class	Hydric Rating
BeD	Bethesda very channery silt loam, 8 to 25 percent slopes	Well drained	Hydric inclusions
BeF	Bethesda very channery silt loam, 25 to 75 percent slopes	Well drained	Not listed
ErB	ErB Ernest silt loam, 3 to 8 percent slopes		Hydric inclusions
ErC	ErC Ernest silt loam, 8 to 15 percent slopes		Hydric inclusions
GcB	Gilpin channery silt loam, 3 to 8 percent slopes	Well drained	Not listed
GcC	Gilpin channery silt loam, 8 to 15 percent slopes	Well drained	Not listed
GcD	GcD Gilpin channery silt loam, 15 to 25 percent slopes		Not listed
Lo	Lobdell silt loam, 0 to 3 percent slopes, occasionally flooded	Moderately well drained	Hydric inclusions

Table 1. SSURGO Soil Mapping Units within the Study Area

Soil Map Unit Symbol	Soil Map Unit Name	Drainage Class	Hydric Rating
ShF	Shelocta-Gilpin channery silt loams, 25 to 75 percent slopes	Well drained	Not listed
SxF	Shelocta-Gilpin channery silt loams, 25 to 75 percent slopes, very stony	Well drained	Not listed
WrB	Wharton silt loam, 3 to 8 percent slopes	Moderately well drained	Hydric inclusions
WrC	Wharton silt loam, 8 to 15 percent slopes	Moderately well drained	Not listed

 Table 1. SSURGO Soil Mapping Units within the Study Area (Continued)

3.2 FIELD STUDY

CEC staff conducted a field reconnaissance on November 3, 2021; November 1, 2022; November 11, 2022; July 31, 2023; August 1, 2023; September 28, 2023; and September 29, 2023 to determine the presence of wetlands, streams, and other waters within the study area. Locations of sampling points, wetlands, and streams are provided in Figures 3A through 3D. Photographs of the study area are included in Appendix B, and Wetland Determination Data Forms and Stream Data Forms are provided in Appendices C and D, respectively; the data forms provide details of the delineated wetlands and streams. The following sections provide general descriptions of the field investigation findings.

3.2.1 Wetland Delineation

Seventeen wetlands were identified within the study area. Fourteen wetlands were classified as Palustrine Emergent (PEM), one wetland was classified as Palustrine Scrub Shrub (PSS), one wetland was classified as Palustrine Forested (PFO), and one wetland was classified as Palustrine Unconsolidated Bottom (PUB). Refer to Table 2 for a summary of the wetlands identified within the study area.

In addition, 14 sampling points documented upland habitats within the study area. These uplands included forests, fields, and disturbed areas.

 Table 2. Delineated Wetlands

Wetland Identifier	Area (acres)	Cowardin Classification ¹	Sampling Point
Wetland 1	0.010	PEM	SP-1
Wetland 2	0.050	PEM	SP-3
Wetland 3	0.222	PFO	SP-4
Wetland 4 (4A, 4B, and 4C)	0.057 (0.014, 0.034, and 0.009)	PEM	SP-6
Wetland 5 (5A, 5B, 5C, and 5D)	0.095 (0.012, 0.024, 0.057, and 0.002)	PEM	SP-7
Wetland 6	0.006	PEM	SP-9
Wetland 7 (7A, 7B, 7C, 7D, 7E, 7F, and 7G)	0.222 (0.034, 0.093, 0.039, 0.026, 0.023, 0.006, and 0.001)	PEM	SP-11
Wetland 8	0.009	PSS	SP-13
Wetland 9	0.005	PEM	SP-15
Wetland 10	0.014	PEM	SP-16
Wetland 11	0.021	PEM	SP-18
Wetland 12 (12A and 12B)	0.017 (0.011 and 0.006)	PEM	SP-20
Wetland 13 (13A, 13B, and 13C)	0.127 (0.007, 0.009, and 0.111)	PEM	SP-22
Wetland 14	0.003	PUB	SP-24
Wetland 15	0.024	PEM	SP-26

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	Area		
Wetland Identifier	(acres)	Cowardin Classification ¹	Sampling Point
Wetland 16	0.001	PEM	SP-29
Wetland 17	0.024	PEM	SP-30
Total	0.907 (0.673 PEM/ 0.009 PSS/ 0.222 PFO/ 0.003 PUB)		

 Table 2. Delineated Wetlands (Continued)

1 As interpreted from USFWS Classification of Wetlands and Deepwater Habitats of the United States. (1979). Palustrine Emergent (PEM), Palustrine Scrub Shrub (PSS), Palustrine Forested (PFO), and Palustrine Unconsolidated Bottom (PUB).

3.2.2 Stream and Other Waters Delineation

Nine streams were identified within the study area. Four were classified as perennial, two were classified as intermittent, two were classified as ephemeral, and one was classified as perennial/intermittent. Refer to Table 3 for a summary of the streams identified within the study area. One undefined drainage feature was also identified during the on-site field review.

Table 5. Defineated Streams						
Stream Name	Study Area Length (feet)	Stream Classification	PA Chapter 93 Designation ¹			
Beaver Run	393	Perennial	TSF			
UNT 1 to Beaver Run	575	Perennial/Intermittent	TSF			
UNT 2 to Beaver Run	262	Perennial	TSF			
UNT 3 to Beaver Run	321	Perennial	TSF			
UNT 4 to Beaver Run	130	Intermittent	TSF			
Trib 42938 to Beaver Run	319	Perennial	TSF			
UNT 1 to Trib 42938 to Beaver Run	88	Ephemeral	TSF			

Table 3. Delineated Streams

Table 3. Delineated Streams (Continued)

Stream Name	Study Area Length (feet)	Stream Classification	PA Chapter 93 Designation ¹
UNT 2 to Trib 42938 to Beaver Run	144	Ephemeral	TSF
Trib 42945 to Beaver Run	325	Intermittent	TSF
Total	2,557		

From Title 25, PA Code Chapter 93. Trout Stocking (TSF) – Maintenance of stocked trout from February 15 to July 31 and maintenance and propagation of fish species and additional flora and fauna which are indigenous to warm water habitat.

4.0 **REGULATORY CONSIDERATIONS**

4.1 **REGULATORY OVERVIEW**

The USACE has authority to permit the discharge of dredged or fill material into "waters of the U.S." under Section 404 of the federal Clean Water Act, and to permit work and the placement of structures in navigable waters under Sections 9 and 10 of the Rivers and Harbors Act of 1899. Wetlands, streams, and other waters that meet the guidelines contained in the Corps Manual, Regional Supplement, and Regulatory Guidance Letter No. 05-05 are subject to regulation by USACE as waters of the U.S. as defined by 33 CFR 328.3(a). Additionally, Section 401 of the Clean Water Act requires state agencies to evaluate whether discharges to these waters comply with state water quality standards. A Section 401 Water Quality Certification is required for activities that require federal permits or authorizations but is typically integrated into the USACE Section 404 permitting process.

The Pennsylvania Department of Environmental Protection (PADEP) has coinciding jurisdiction over "waters of the Commonwealth" as established by the Dam Safety and Encroachments Act (P.L. 1375, No. 325) and the Clean Streams Law (P.L. 1987, No. 3941). The PA Code of State Regulations, in Title 25, Chapter 105 Dam Safety and Waterway Management, defines "*Regulated waters of the Commonwealth*" as "*watercourses, streams or bodies of water and their floodways wholly or partly within or forming part of the boundary of this Commonwealth*". Like the USACE, the PADEP generally considers channels to be potentially jurisdictional if they exhibit defined bed and banks, whether natural or artificial, with perennial or intermittent flow. The PADEP regulates encroachments, defined as "*any structure or activity which changes, expands or diminishes the course, current or cross section of a watercourse, floodway, or body of water*" through the Chapter 105 permit process. The floodway is defined as extending 50 feet from the top of bank of watercourses if not delineated by a Federal Emergency Management Agency (FEMA) study.

In Pennsylvania, the USACE has delegated authority to the PADEP to authorize minor qualifying activities through the state-wide Section 404 permit titled PA State Programmatic General Permit 6 (PASPGP-6), with concurrent review by USACE for certain categories of impacts. A Joint Permit

Application to PADEP and USACE is typically required for activities with more significant impacts that exceed the thresholds of PA Chapter 105 General Permits and PASPGP-6. In addition to encroachments, permits for discharges to waters, including from construction stormwater runoff or erosion, may be required by National Pollutant Discharge Elimination System (NPDES) and PA Chapter 102 regulations.

All waters within the study areas were delineated using guidelines set forth by the PADEP and USACE, which have final regulatory authority on the jurisdiction and extents of wetlands, streams, and other waters.

4.2 EXCEPTIONAL VALUE (EV) WATERS EVALUATION

The receiving water for the on-site streams is Beaver Run. The Pennsylvania Fish & Boat Commission designates the section of Beaver Run downstream of the Beaver Run Reservoir as a naturally reproducing trout stream; therefore, Beaver Run is considered a wild trout stream by the PADEP. Wetlands located in or along the floodplain of the reach of a wild trout stream or its tributaries are considered EV wetlands. However, Beaver Run and its tributaries are not designated as EV streams.

CEC performed an evaluation of the EV status of the delineated wetlands. The evaluation assessed the connectivity of the wetlands to downstream wild trout streams. The evaluation was based on field data collected by CEC and U.S. Geological Survey mapping. The evaluation results are provided in Table 4.

Table 4. wettand	Table 4. Wetland Regulatory Status Evaluation							
		Surface Water	Within 50-Foot	Desclat				
Wetland Name	Watershed	or Groundwater Connection? ⁽¹⁾	Assumed Floodway?	Regulatory Status ⁽²⁾				
Wetland 1	Beaver Run	No	No	Other				
Wetland 2	Beaver Run	No	No	Other				
Wetland 3	Beaver Run	No	No	Other				
Wetland 4A	Beaver Run	No	No	Other				
Wetland 4B	Beaver Run	No	No	Other				
Wetland 5A	Beaver Run	Yes	Yes	EV				
Wetland 5B	Beaver Run	No	Yes	EV				
Wetland 5C	Beaver Run	Yes	Yes	EV				
Wetland 5D	Beaver Run	No	Yes	EV				
Wetland 6	Beaver Run	Yes	Yes	EV				
Wetland 7A	Beaver Run	No	No	Other				
Wetland 7B	Beaver Run	No	Yes	EV				
Wetland 7C	Beaver Run	No	No	Other				
Wetland 7D	Beaver Run	No	No	Other				
Wetland 7E	Beaver Run	No	No	Other				
Wetland 7F	Beaver Run	No	No	Other				
Wetland 7G	Beaver Run	No	No	Other				
Wetland 8	Beaver Run	Yes	Yes	EV				
Wetland 9	Beaver Run	Yes	Yes	EV				
Wetland 10	Beaver Run	No	No	Other				
Wetland 11	Beaver Run	No	No	Other				
Wetland 12A	Beaver Run	Yes	Yes	EV				
Wetland 12B	Beaver Run	No	No	Other				
Wetland 13A	Beaver Run	No	No	Other				
Wetland 13B	Beaver Run	No	No	Other				
Wetland 13C	Beaver Run	No	No	Other				

 Table 4. Wetland Regulatory Status Evaluation

Wetland Name	Watershed	Surface Water or Groundwater Connection? ⁽¹⁾	Within 50-Foot Assumed Floodway?	Regulatory Status ⁽²⁾
Wetland 14	Beaver Run	No	No	Other
Wetland 15	Beaver Run	No	No	Other
Wetland 16	Beaver Run	No	No	Other
Wetland 17	Beaver Run	No	No	Other

 Table 4. Wetland Regulatory Status Evaluation (Continued)

5.0 CONCLUSIONS

CEC conducted a wetland, stream, and other waters delineation within the project study area on November 3, 2021; November 1, 2022; November 11, 2022; July 31, 2023; August 1, 2023; September 28, 2023; and September 29, 2023. CEC identified the following at the Site:

- 17 wetlands (Wetlands 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, and 17), totaling approximately 0.907 acre:
 - 14 PEM wetlands (Wetlands 1, 2, 4, 5, 6, 7, 9, 10, 11, 12, 13, 15, 16, and 17), totaling approximately 0.673 acre.
 - o 1 PSS wetland (Wetland 8), totaling approximately 0.009 acre.
 - o 1 PFO wetland (Wetland 3), totaling approximately 0.222 acre.
 - o 1 PUB wetland (Wetland 14), totaling approximately 0.003 acre.
- 10 streams, totaling approximately 2,557 linear feet (LF):
 - 2 ephemeral streams (UNTs 1 and 2 to Trib 42938 to Beaver Run), totaling approximately 232 LF.
 - 2 intermittent streams (UNT 4 to Beaver Run and Trib 42945 to Beaver Run), totaling approximately 455 LF.
 - 4 perennial streams (UNTs 2 and 3 to Beaver Run, Trib 42938 to Beaver Run, and Beaver Run), totaling approximately 1,295 LF.
 - 1 perennial/intermittent stream (UNT 1 to Beaver Run), totaling approximately 575 LF.

6.0 LEVEL OF CARE

This wetland and stream delineation has been prepared based on the best available information, interpreted in the light of the investigator's training, experience, and professional judgement in conformance with the USACE Manual, the applicable regional supplement, other applicable agency guidelines, and with the level of care and skill ordinarily exercised by members of the environmental consulting profession practicing contemporaneously under similar conditions in the locality of the site. The wetland boundaries described in this report may change subsequent to CEC's delineation based on changes in the regulatory criteria, seasonal variations in hydrology, alterations to drainage patterns, and other human activities and/or land disturbances.

Report Prepared By:

Alexander P. Begg Staff Scientist Civil & Environmental Consultants, Inc.

December 20, 2023 Date

Report Reviewed By:

lie 1. Sheard

Natalie L. Shearer, MS, QEP, PWS Project Manager Civil & Environmental Consultants, Inc. December 20, 2023 Date

7.0 **REFERENCES**

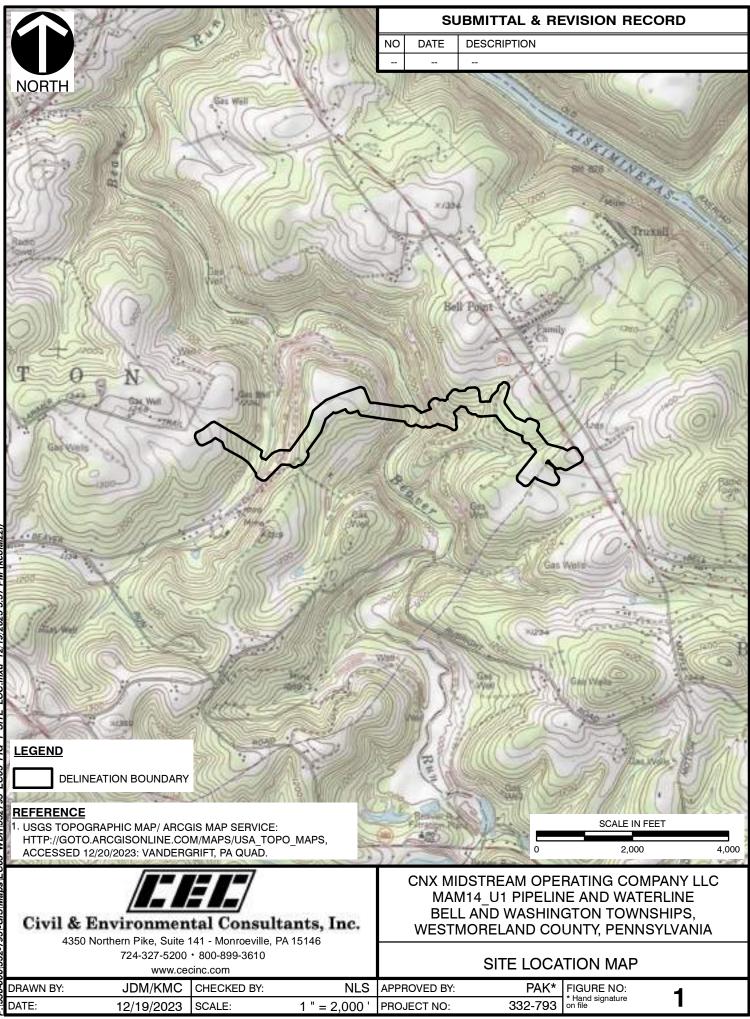
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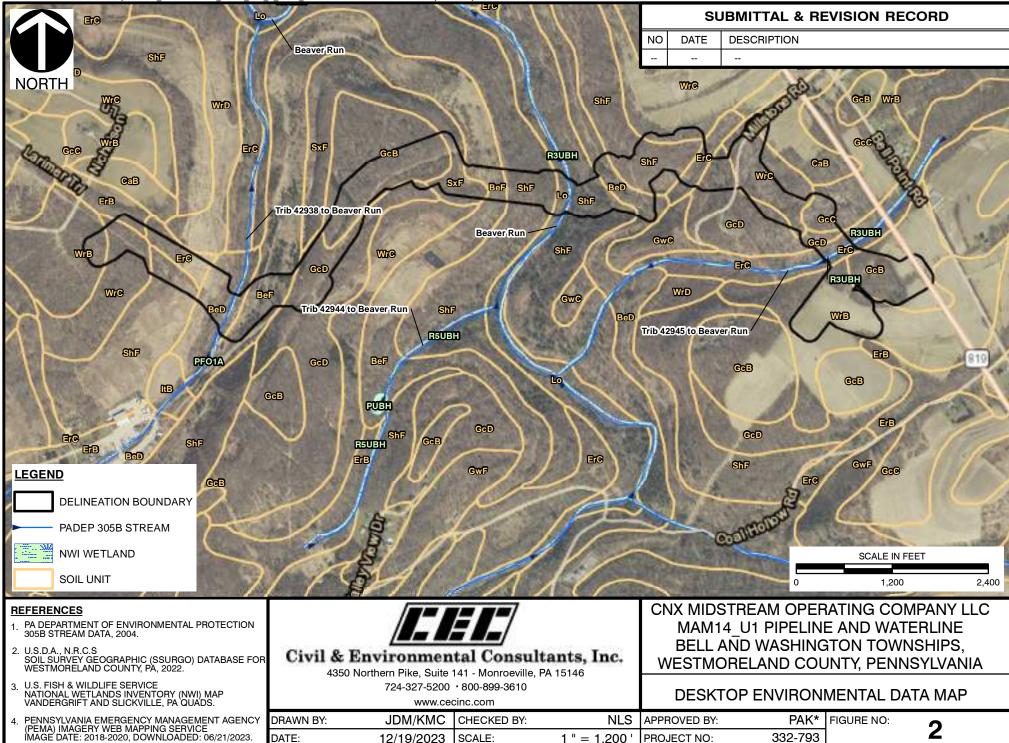
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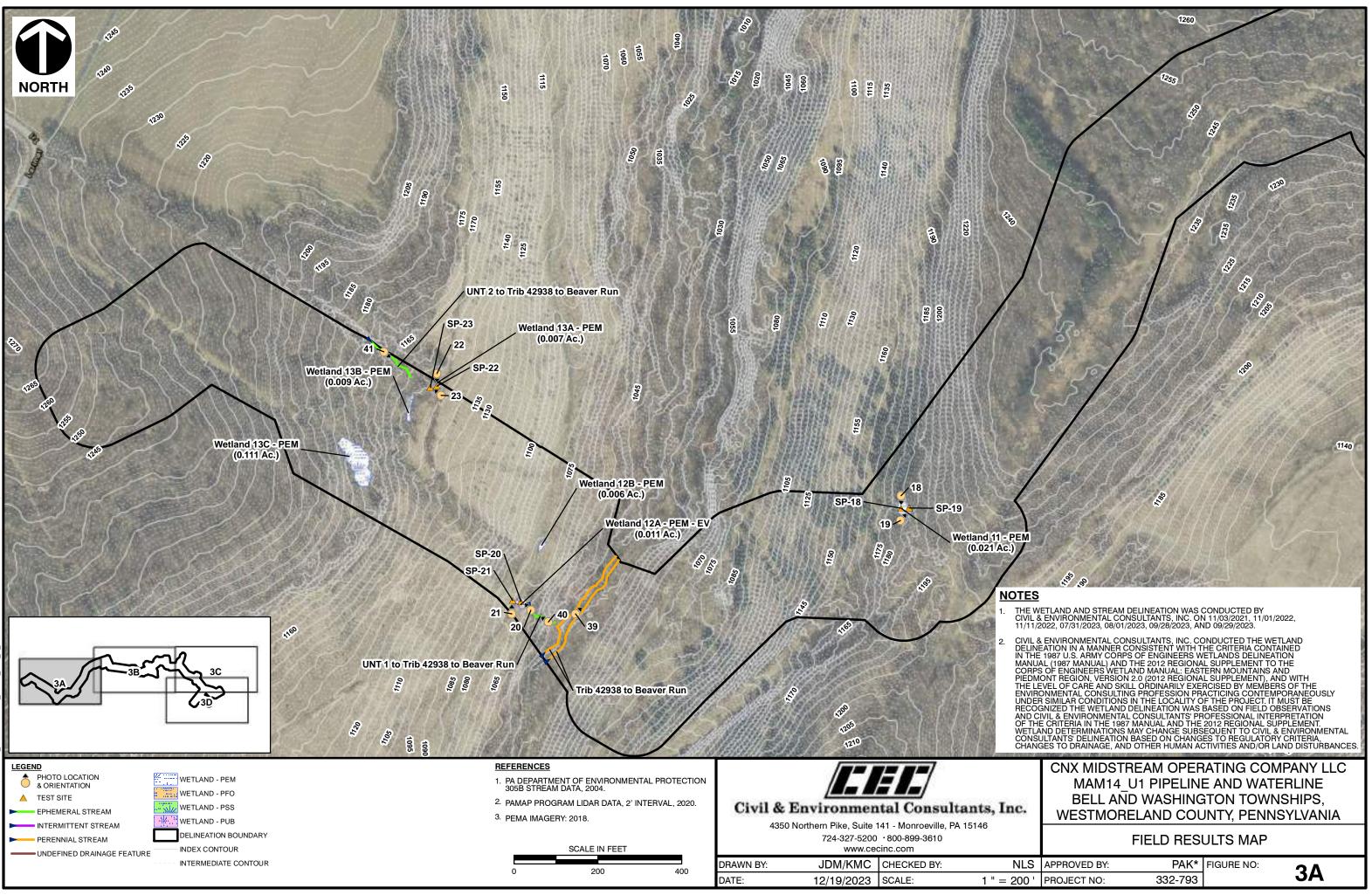
APPENDIX A

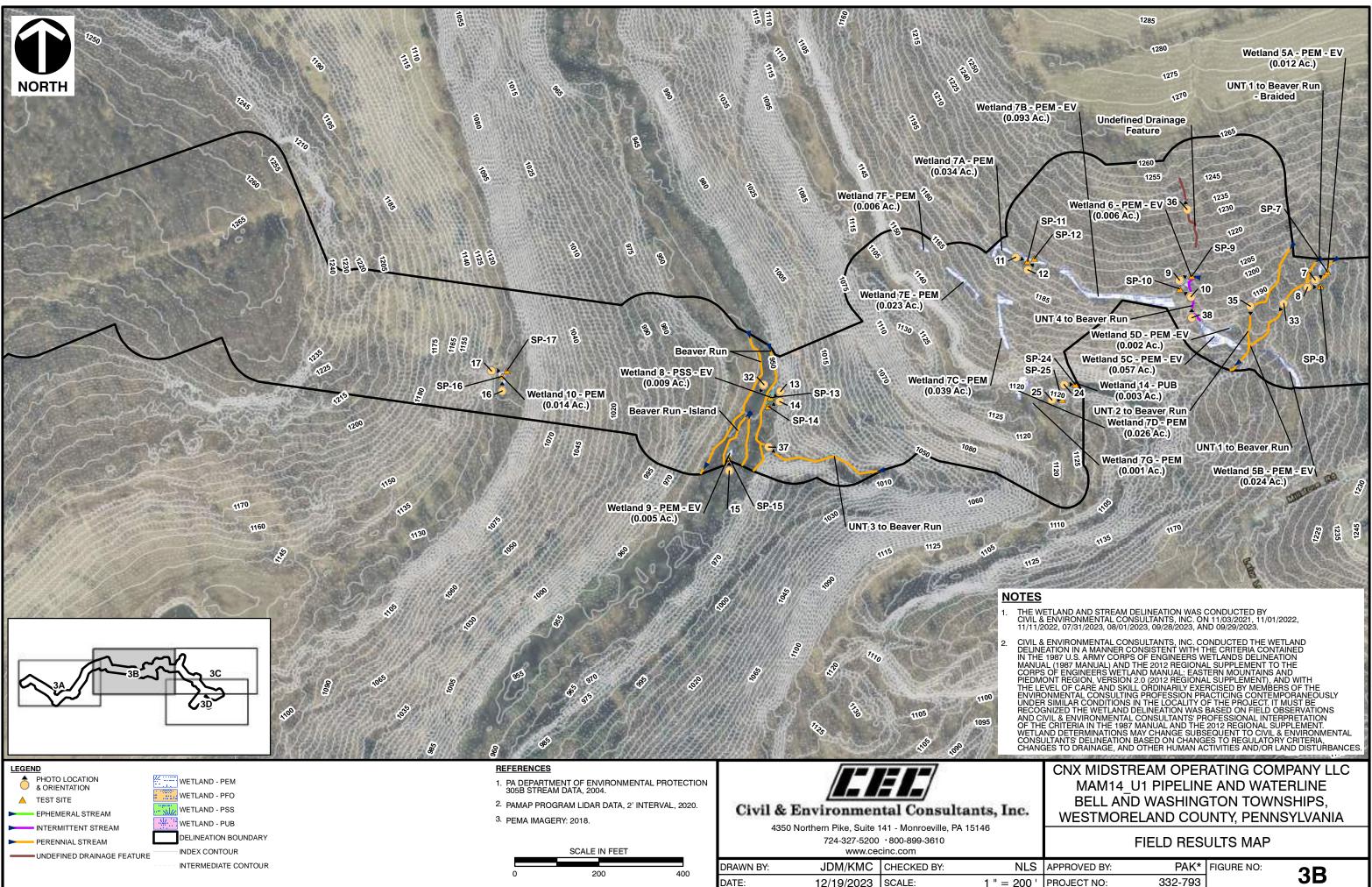
FIGURES

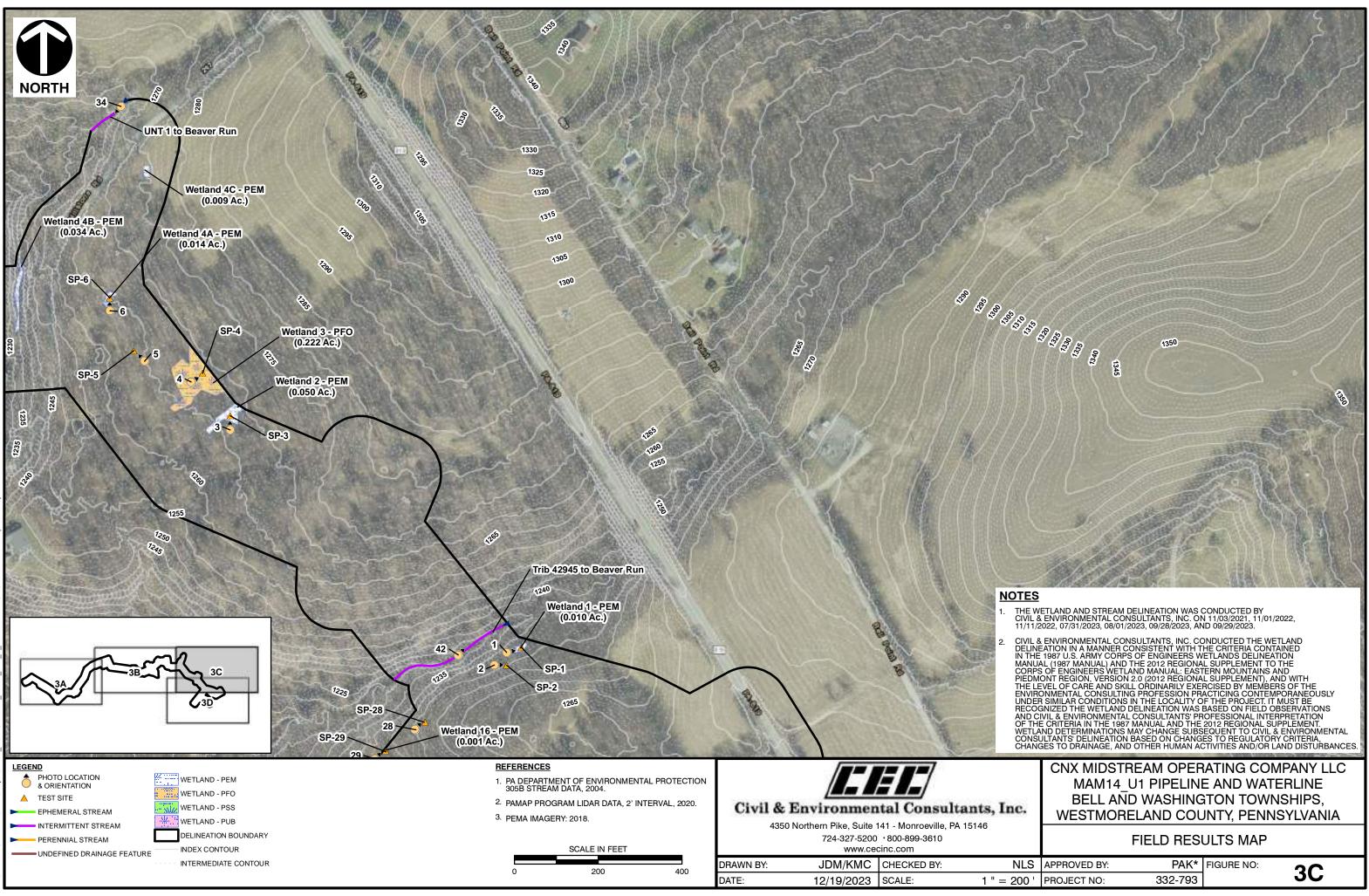


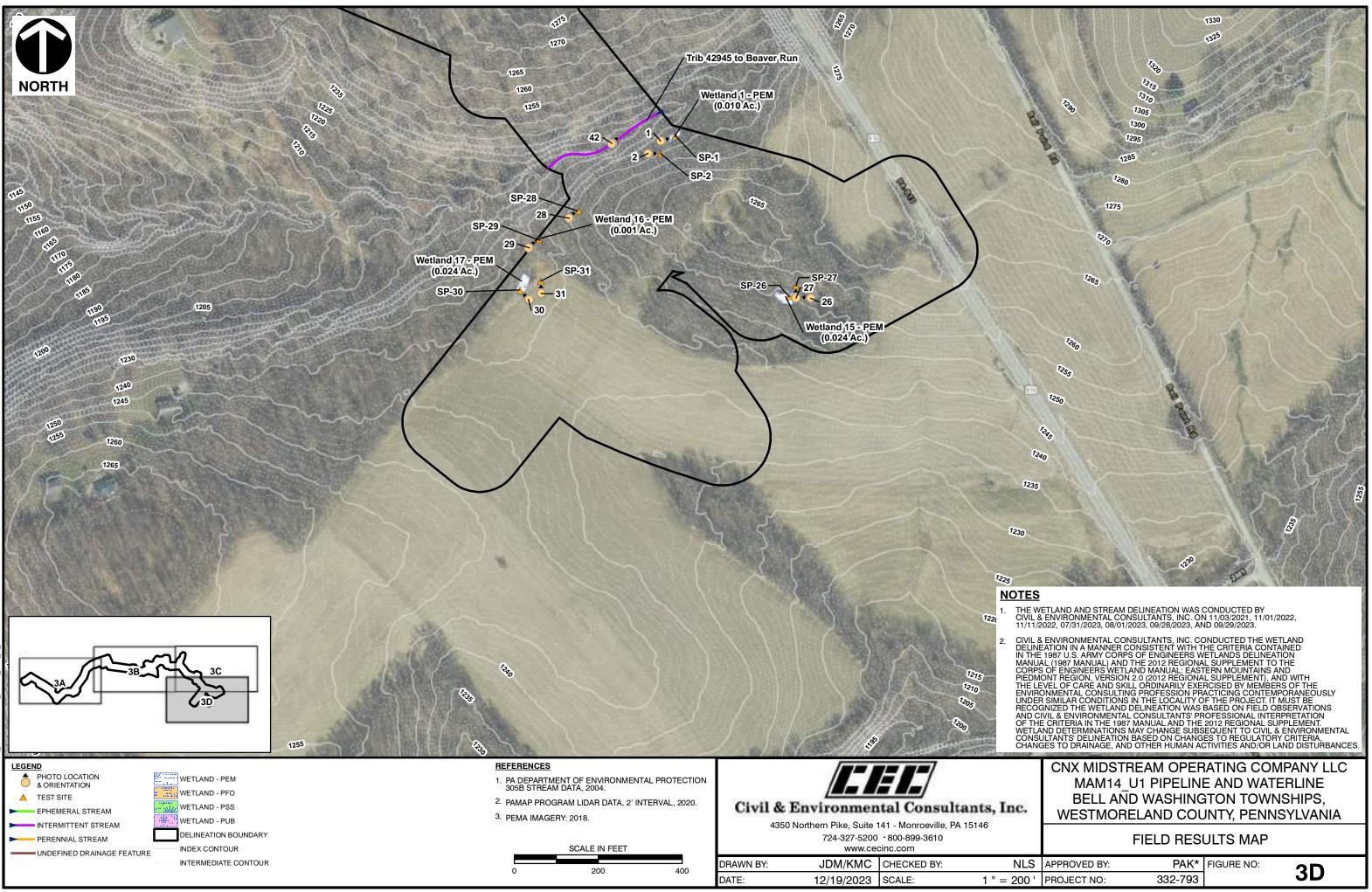
P:\330-000\332-793\-GIS\Maps\EC03 WDR\332793 EC03 FIG 2 SOIL NWI.mxd 12/19/2023 3:35 PM (kcolaizzi)











APPENDIX B

PHOTOGRAPHS

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Photo 1: Sampling Point 1, Wetland 1. Facing northeast - July 31, 2023



Photo 2: Sampling Point 2, non-wetland. Facing east - July 31, 2023



Photo 3: Sampling Point 3, Wetland 2. Facing north - July 31, 2023



Photo 4: Sampling Point 4, Wetland 3. Facing northeast - July 31, 2023



Photo 5: Sampling Point 5, non-wetland. Facing northwest - July 31, 2023



Photo 6: Sampling Point 6, Wetland 4. Facing north - July 31, 2023



Photo 7: Sampling Point 7, Wetland 5. Facing northeast - July 31, 2023



Photo 8: Sampling Point 8, non-wetland. Facing east - July 31, 2023



Photo 9: Sampling Point 9, Wetland 6. Facing northeast - July 31, 2023



Photo 10: Sampling Point 10, non-wetland. Facing northwest - July 31, 2023



Photo 11: Sampling Point 11, Wetland 7. Facing southeast - July 31, 2023



Photo 12: Sampling Point 12, non-wetland. Facing northeast - July 31, 2023



Photo 13: Sampling Point 13, Wetland 8. Facing southwest - August 1, 2023



Photo 15: Sampling Point 15, Wetland 9. Facing north - August 1, 2023



Photo 14: Sampling Point 14, non-wetland. Facing southwest - August 1, 2023



Photo 16: Sampling Point 16, Wetland 10. Facing north - August 1, 2023



Photo 17: Sampling Point 17, non-wetland. Facing east - August 1, 2023



Photo 18: Sampling Point 18, Wetland 11. Facing south - August 1, 2023



Photo 19: Sampling Point 19, non-wetland. Facing northeast - August 1, 2023



Photo 21: Sampling Point 21, non-wetland. Facing north - August 1, 2023



Photo 20: Sampling Point 20, Wetland 12. Facing northwest - August 1, 2023



Photo 22: Sampling Point 22, Wetland 13. Facing south - August 1, 2023



Photo 23: Sampling Point 23, non-wetland. Facing northwest - August 1, 2023



Photo 24: Sampling Point 24, Wetland 14. Facing east - September 28, 2023



Photo 25: Sampling Point 25, non-wetland. Facing east - September 28, 2023



Photo 27: Sampling Point 27, non-wetland. Facing north - September 29, 2023



Photo 26: Sampling Point 26, Wetland 15. Facing west - September 28, 2023



Photo 28: Sampling Point 28, non-wetland. Facing northeast - November 1, 2022



Photo 29: Sampling Point 29, Wetland 16. Facing northeast - November 1, 2022



Photo 30: Sampling Point 30, Wetland 17. Facing northwest - November 11, 2022



Photo 31: Sampling Point 31, non-wetland. Facing northeast - November 11, 2022



Photo 32: Beaver Run. Facing downstream - August 1, 2023



Photo 33: UNT 1 to Beaver Run (Perennial portion). Facing downstream - July 31, 2023



Photo 35: UNT 2 to Beaver Run. Facing downstream - July 31, 2023



Photo 34: UNT 1 to Beaver Run (Intermittent portion). Facing upstream - September 28, 2023



Photo 36: Undefined drainage feature. Facing upslope - July 31, 2023



Photo 37: UNT 3 to Beaver Run. Facing upstream - August 1, 2023



Photo 38: UNT 4 to Beaver Run. Facing upstream - July 31, 2023



Photo 39: Trib 42938 to Beaver Run. Facing downstream - August 1, 2023



Photo 40: UNT 1 to Trib 42938 to Beaver Run. Facing upstream - August 1, 2023



Photo 41: UNT 2 to Trib 42938 to Beaver Run. Facing downstream - August 1, 2023



Photo 42: Trib 42945 to Beaver Run. Facing upstream - November 3, 2021

APPENDIX C

WETLAND DETERMINATION DATA FORMS

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont

Project/Site:	332-793 MAI	V14 U1 Pipeline and V	Vaterline	City/County:	Westmoreland 0	County		Sampling Date:	July 31, 2023
Applicant/Owner:		CNX Midstream	Operating Co	mpany LLC		State:	PA	Sampling Point:	SP-1
Investigator(s):	tigator(s): ARS, APB Section, Township, Range:			lange:	Washington Township				
Landform (hillslope, terra	ace, etc.):	Depre	ession	Local Re	lief (concave, conve	x, none):	C	Concave	Slope (%):
Subregion (LRR or ML	RA):	LRR N	Lat:	40.536775	Long:	-79.5	546238	Datum:	NAD83
Soil Map Unit Name:	-	silt loam, 8 to 15 perce			0			fication:	
Are climatic/hydrologic	-				Yes X	No		blain in Remarks.)	
		<u>No</u> , or Hydrolo	-	significantly distu		"Normal Cire Yes			
Are Vegetation	<u>No</u> , Soil _	<u>No</u> , or Hydrolog	gy <u>No</u>	naturally problem	atic? (If n			ers in Remarks.)	
SUMMARY OF FIN	DINGS - Att	ach site map shov	ving sampl	ing point locat	ions, transects	, importan	t feature	es, etc.	
Hydrophytic Vegetation	Present?		Yes X	No					
Hydric Soil Present?			Yes X	No	Is the Sampled A	rea Yes	Х	No	
Wetland Hydrology Pre	ent?		Yes X	No	within a Wetland		Wetland	1 - PEM	
Remarks:					•				
Compliant point in locat	مما سناما م			istin a sin sli					
Sampling point is locat	ed within a dep	oresional wetland location	ed adjacent to	o an existing pipeli	ne ROW.				
HYDROLOGY									
							0		
Wetland Hydrology Ir		den de la brande all de la combré	, ,					•	mum of two required)
Primary Indicators (minim		ured; check all that apply		a Dianta (D44)				Surface Soil Cracks	
Surface Water (A1)				Aquatic Plants (B14)			Sparsely Vegetated Concave Surface (B8)		
High Water Table (42)			Sulfide Odor (C1)			Drainage Patterns (B10)		
Saturation (A3)		<u>X</u>		thizospheres on Living Roots (C3)			Moss Trim Lines (B16)		
Water Marks (B1)	(5.0)			of Reduced Iron (C4)			Dry-Season Water Table (C2)		
Sediment Deposits	(B2)			on Reduction in Tilled Soils (C6)			Crayfish Burrows (C8)		
Drift Deposits (B3)				uck Surface (C7)			Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust	B4)		Other (Expl	plain in Remarks)			Stunted or Stressed Plants (D1)		. ,
Iron Deposits (B5)							Geomorphic Position (D2)		
Inundation Visible o		r (B7)					Shallow Aquitard (D3)		
Water-Stained Lear							Mircotopographic Relief (D4)		
Aquatic Fauna (B1:	3)						<u> </u>	FAC-Neutral Test (D	5)
Field Observations:									
Surface Water Presen	t? Yes	No X		Depth (inches):					
Water Table Present?	Yes	No X		Depth (inches):		Wetland	d Hydrolo	gy Present?	
Saturation Present?	Yes	No X		Depth (inches):		Yes	x	No	
(includes capillary fring									
Describe Recorded Da	ita (stream gau	ige, monitoring well, ae	erial photos, p	revious inspectior	s), if available:				
Remarks:									

5.	= 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: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (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) Prevalence Index = B/A =
Tree Stratum (Plot size:30) % Cover 1.	Species?	Status	That Are OBL, FACW, or FAC:3(A)Total Number of Dominant Species Across All Strata:3(B)Percent of Dominant Species That Are OBL, FACW, or FAC:100%(A/B)Prevalence Index worksheet:Total % Cover of:Multiply by:OBL speciesx1 =FACW speciesx2 =FAC speciesx3 =FACU speciesx3 =FACU speciesx4 =UPL speciesx5 =Column Totals:(A)(B)
1.	= Total Cover		That Are OBL, FACW, or FAC:3(A)Total Number of Dominant Species Across All Strata:3(B)Percent of Dominant Species That Are OBL, FACW, or FAC:100%(A/B)Prevalence Index worksheet:Total % Cover of:Multiply by:OBL speciesx1 =FACW speciesx2 =FAC speciesx3 =FACU speciesx3 =FACU speciesx4 =UPL speciesx5 =Column Totals:(A)(B)
3.	= Total Cover		Total Number of Dominant Species Across All Strata:3(B)Percent of Dominant Species That Are OBL, FACW, or FAC:100%(A/B)Prevalence Index worksheet:Total % Cover of:Multiply by:OBL speciesx 1 =FACW speciesx 2 =FAC speciesx 3 =FAC speciesx 4 =UPL speciesx 5 =Column Totals:(A)
3.	= Total Cover		Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 =
4.	= Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:100% (A/B)Prevalence Index worksheet:
5.	= Total Cover		Percent of Dominant SpeciesThat Are OBL, FACW, or FAC:100%Prevalence Index worksheet:(A/B)Total % Cover of:Multiply by:OBL speciesx 1 =FACW speciesx 2 =FAC speciesx 3 =FACU speciesx 4 =UPL speciesx 5 =Column Totals:(A)
6.	= Total Cover		That Are OBL, FACW, or FAC: 100% (A/B) Prevalence Index worksheet:
7. 0 Sapling Stratum: (Plot Size: 15) 1.	= Total Cover		That Are OBL, FACW, or FAC: 100% (A/B) Prevalence Index worksheet:
Sapling Stratum: (Plot Size: 15) 1.	 = Total Cover		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)
Sapling Stratum: (Plot Size: 15) 1.	 = Total Cover		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)
1.			OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B)
2			OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B)
3.	= Total Cover		FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B)
4	= Total Cover		FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A)
5	= Total Cover		FACU species x 4 = UPL species x 5 = Column Totals: (A)
6	= Total Cover		UPL species x 5 = Column Totals: (A)
7	= Total Cover		Column Totals:(A)(B)
0 Shrub Stratum: (Plot Size: 15) 1.	= Total Cover		
Shrub Stratum: (Plot Size: 15) 1.			Prevalence Index = B/A =
1.			
2			
3.			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			X 2 - Dominance Test is >50%
5.			$3 - Prevalence Index is \leq 3.0^{1}$
			4 - Morphological Adaptations ¹ (Provide supporting
6 7			data in Remarks or on a separate sheet)
0	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum: (Plot size: 5)	= 10tal Cover		
1. Scirpus cyperinus 20	Y	FACW	
	N	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 Salidaga rugasa 5	N	FAC	Definitions of Four Vegetation Strata:
4. Symphyotrichum lateriflorum 10	N	FACW	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5 Pulue alleghaniansis 5	N	FACU	more in diameter at breast height (DBH), regardless of height.
6 Microstorium viminoum 20	Y	FAC	Sapling - Woody plants, excluding woody vines, aproximately 20 ft
7. Juncus tenuis 10	 N	FAC	(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
8. Parathelypteris noveboracensis 15	Y	FAC	Shrub - Woody plants, excluding woody vines, aproximately 3 to 20
	N	FACW	ft (1 to 6 m) in height.
		FACIN	Herb - All herbaceous (non-woody) plants, regardless
			of size, and woody plants less than 3.28 ft tall.
11			Woody Vines - All woody vines greater than 3.28 ft in height.
	= Total Cover		woody vines vines greater than 5.20 it in height.
1 · · · · · · · · · · · · · · · · · · ·			
2			Hydrophytic
3 4.			Vegetation Present? Yes X No
	·		
5	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)			

	iption: (Describe to t	he depth				firm the abs	sence of indicators.)					
Depth	Matrix			Redox Fea		. 2						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks				
0-10	10YR 4/2	90	7.5YR 4/6	10	C	PL/M	Clay Loam					
¹ Type: C=Con	centration, D=Depletion, R	M=Reduce	ed Matrix, MS=Masked	Sand Grair	ns.		² Location: PL= Pore L	ining, M=Matrix.				
Hydric Soil Inc	licators:						Indicators for Problem	matic Hydric Soils ³ :				
Histosol (A	(1)		Dark Surface (S7)			2 cm Muck (A10)	(MLRA 147)				
Histic Epip	edon (A2)		Polyvalue Below	Surface (S8	B) (MLRA 147,	148)	Coast Prairie Red	dox (A16)				
Black Histi	c (A3)		Thin Dark Surface	e (S9) (MLF	RA147, 148)		(MLRA 147, 148	3)				
Hydrogen	Sulfide (A4)		Loamy Gleyed Ma	. ,			Piedmont Floodplain Soils (F19)					
	ayers (A5)		X Depleted Matrix (,			(MLRA 136, 147) Very Shallow Dark Surface (TF12)					
	(A10) (LRR N)		Redox Dark Surfa	. ,				· · · ·				
	Below Dark Surface (A11)		Depleted Dark Su				Other (Explain in	Remarks)				
	Surface (A12) cky Mineral (S1) (LRR N,		Redox Depressio		2) (I RR N							
	147, 148)		MLRA 136)	11123555 (1-1	2) (ERR N,							
	yed Matrix (S4)		Umbric Surface (I	F13) (MLRA	A 136, 122)		³ Indicators of hydropl	hytic vegetation and				
Sandy Re			Piedmont Floodp		-	8)	wetland hydrology must be present,					
Stripped N			Red Parent Mate			-	unless disturbed or problematic.					
Restrictive Lag	ver (if observed):											
Type:	Rock											
Depth (inc	hes): 10						Hydric Soil Present?	Yes <u>X</u> No				
Remarks:												

Project/Site:	332-793 MA	M14 U1 Pipeline and W	aterline	City/County:	Westmorelar	nd County		Sampling Date:	July 31, 2023	
Applicant/Owner:		CNX Midstream 0	Operating Com	ipany LLC		S	tate: PA	Sampling Point:	SP-2	
Investigator(s):		ARS, APB		Se	ction, Township	o, Range:		Washington	Township	
Landform (hillslope, te	rrace, etc.):	Hillslo	pe	Local Rel	lief (concave, co	nvex, none)	:	None	Slope (%):	
Subregion (LRR or M	ILRA):	LRR N	Lat:	40.536656	Long:		-79.546362	Datum:	NAD83	
Soil Map Unit Name:		channery silt loam, 3 to			0 _			sification:		
		the site typical for this ti			Yes X	No		plain in Remarks.)		
Are Vegetation	<u>No</u> , Soil	<u>No</u> , or Hydrolog	-	ignificantly distur			al Circumstand	ces" present?		
Are Vegetation	<u>No</u> , Soil	No, or Hydrolog	y <u>No</u> n	aturally problem	atic?	(If needed,	explain any answ	vers in Remarks.)		
SUMMARY OF F	INDINGS - Att	ach site map show	ing samplin	ig point locati	ons, transe	cts, impo	ortant featur	es, etc.		
Hydrophytic Vegetati	ion Present?		Yes	No <u>X</u>						
Hydric Soil Present?			Yes	No <u>X</u>	Is the Sample	d Area	Yes	No <u>X</u>		
Wetland Hydrology F	Present?		Yes	No <u>X</u>	within a Wet		Up	land		
Sampling point is loc	ated on an existi	ing pipeline ROW, adjac	cent to Wetland	11						
HYDROLOGY										
Wetland Hydrology	Indicators:						Second	lary Indicators (mini	mum of two required)	
Primary Indicators (mini	imum of one is req	uired; check all that apply)						Surface Soil Cracks	(B6)	
Surface Water (A1) True Aquatic Plants (B14)							Sparsely Vegetated	Concave Surface (B8)		
	High Water Table (A2) Hydrogen Sulfide Odor (C1)							Drainage Patterns (B	:10)	
Saturation (A3)			Oxidized Rhiz	ospheres on Living	Roots (C3)			Moss Trim Lines (B16)		
Water Marks (B1				Reduced Iron (C4)				Dry-Season Water Table (C2)		
Sediment Deposi				eduction in Tilled S	Soils (C6)			Crayfish Burrows (C8)		
Drift Deposits (B3			Thin Muck Su					Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crus			_Other (Explain	n in Remarks)				Stunted or Stressed Plants (D1)		
Iron Deposits (B5							Geomorphic Position (D2)			
	e on Aerial Imagery	/ (B7)						Shallow Aquitard (D3	,	
Water-Stained Le								Mircotopographic Re		
Aquatic Fauna (E	313)							_FAC-Neutral Test (D	5)	
Field Observations										
Surface Water Prese	ent? Yes	No	X C	Depth (inches):						
Water Table Present	? Yes	No		Depth (inches):		We	etland Hydrold	ogy Present?		
Saturation Present? (includes capillary fri	Yes	No	<u>x </u> c	Depth (inches):		٢	′es	NoX		
Describe Recorded I	Data (stream gau	uge, monitoring well, aei	rial photos, pre	vious inspection	s), if available:					
Remarks:										

Sampling	Point:	

	Absolute % Cover 10 15 20	Dominant Species? Y Y Y	Indicator Status FACU FACU FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	1(A)
Tree Stratum (Plot size:30)	% Cover 10 15 20	Species? Y Y	Status FACU FACU	That Are OBL, FACW, or FAC:	1 (A)
1. Liriodendron tulipifera	10 15 20	Y Y	FACU FACU	That Are OBL, FACW, or FAC:	<u> 1 (</u> A)
2. Carya cordiformis 3. Acer saccharum 4. 5. 6. 7	15 20	Y	FACU	-	(/)
Acer saccharum 4. 5. 6. 7	20	· ·		Total Number of Dominant	
4		· ·	FACU	Total Number of Dominant	
5				Species Across All Strates	7 (P)
5				Species Across All Strata:	7(B)
7					
<i>(</i> .				Percent of Dominant Species	
				That Are OBL, FACW, or FAC:	14%(A/E
	45	= Total Cover		Prevalence Index worksheet:	
Sapling Stratum: (Plot Size: 15)					
		<u> </u>		Total % Cover of:	Multiply by:
2				OBL species x 1 =	
3		<u> </u>		FACW species x 2 =	
				FAC species x 3 =	
i				FACU speciesx 4 =	
)				UPL species x 5 =	
				Column Totals: (A)	(B)
	0	= Total Cover			
Shrub Stratum: (Plot Size: 15)				Prevalence Index = B/A =	
. Rubus allegheniensis	10	Y	FACU		
				Hydrophytic Vegetation Indicators:	
3				1 - Rapid Test for Hydrophytic Vegeta	ition
				2 - Dominance Test is >50%	
				$3 - Prevalence Index is \le 3.0^1$	
· · · · · · · · · · · · · · · · · · ·				4 - Morphological Adaptations ¹ (Provid	de supporting
5				data in Remarks or on a separate	
·	10	Tatal Causer		Problematic Hydrophytic Vegetation ¹	(Evoloin)
Lark Circleration (Dist size)	10	= Total Cover			(Explain)
Herb Stratum: (Plot size: 5)			FAOL		
. Rubus allegheniensis	30	<u>Y</u>	FACU	¹ Indicators of hydric soil and wetland hydro	
2. Rosa multiflora		N	FACU	be present, unless disturbed or problematic	
3. Lolium perenne		Υ	FACU	Definitions of Four Vegetation Strata:	
Parathelypteris noveboracensis	25	Y	FAC	Tree - Woody plants, excluding vines, 3 in.	
5. Oxalis stricta	15	N	FACU	more in diameter at breast height (DBH), re	gardiess of height.
S				Sapling - Woody plants, excluding woody v	
				(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3				Shrub - Woody plants, excluding woody vin	nes, aproximately 3 to 2
)				ft (1 to 6 m) in height.	
0				Herb - All herbaceous (non-woody) plants,	regardless
1				of size, and woody plants less than 3.28 ft ta	all.
2.				Woody Vines - All woody vines greater that	n 3.28 ft in height.
		= Total Cover			
· (***** (<u></u> ,					
· · · · · · · · · · · · · · · · · · ·					
				Hydrophytic	
				Vegetation Present? Yes	No <u>X</u>
· · · · · · · · · · · · · · · · · · ·					
		= Total Cover			
—	ate sheet.)				

Profile Desc	cription: (Describe to	the depth r				irm the ab	sence of indicators.)			
Depth	Matrix			Redox Fea	tures		_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-2	10YR 3/2	100					Silt loam	with gravel		
2-16	10YR 4/4	100					Clay loam			
1										
	ncentration, D=Depletion,	RM=Reduce	d Matrix, MS=Masked	Sand Grair	IS.		² Location: PL= Pore Li			
Hydric Soil In	idicators:						Indicators for Problem			
Histosol (-	Dark Surface (S7				2 cm Muck (A10)			
	ipedon (A2)	-	Polyvalue Below			48)	Coast Prairie Red			
Black His	n Sulfide (A4)	-	Thin Dark Surface		(A147, 148)		(MLRA 147, 148) Piedmont Floodpla			
	Layers (A5)	-	Depleted Matrix ((MLRA 136, 147)			
	ck (A10) (LRR N)	-	Redox Dark Surfa				Very Shallow Dark			
	Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)					Other (Explain in F				
Thick Da	rk Surface (A12)	-	Redox Depressio	ns (F8)						
Sandy M	ucky Mineral (S1) (LRR N ,	_	Iron-Manganese	Masses (F1	2) (LRR N,					
	147, 148)		MLRA 136)							
	leyed Matrix (S4)	-	Umbric Surface (-		³ Indicators of hydroph			
	edox (S5)	-	Piedmont Floodp			-	wetland hydrology			
Stripped	Matrix (S6)	-	Red Parent Mate	nai (F21) (iv	ILRA 127, 147)	unless disturbed or problematic.			
Restrictive La	ayer (if observed):									
Type:	, (,									
Depth (in	ches):						Hydric Soil Present?	Yes No X		
-1 · X							,			
Remarks:										

Project/Site:	332-793 MAM	14 U1 Pipeline and W	aterline	City/County:	Westmoreland C	County		Sampling Date:	July 31, 2023	
Applicant/Owner:		CNX Midstream (Operating Co	mpany LLC		State:	PA	Sampling Point:	SP-3	
Investigator(s):		ARS, APB		Se	ction, Township, R	ange:		Washington	Township	
Landform (hillslope, ter	race, etc.):	Depres	ssion	Local Re	lief (concave, convex	k, none):	(Concave	Slope (%):	
Subregion (LRR or M	LRA):	LRR N	Lat:	40.538255	Long:	-79.5	48781	Datum:		
Soil Map Unit Name:		n silt loam, 8 to 15 perc			0			ification:		
		ne site typical for this ti			Yes X			plain in Remarks.)		
Are Vegetation		No, or Hydrolog	-	significantly distu		"Normal Circ Yes		es" present?		
Are Vegetation	<u>No</u> , Soil	No, or Hydrolog	y <u>No</u>	naturally problem	atic? (If ne	eeded, explain		ers in Remarks.)		
SUMMARY OF FI	NDINGS - Atta	ch site map show	ing sampl	ing point locat	ions, transects,	, importan	t feature	es, etc.		
Hydrophytic Vegetatio	on Present?		Yes X	No						
Hydric Soil Present?			Yes X		Is the Sampled A	rea Yes	X	No		
Wetland Hydrology P	resent?		Yes X		within a Wetland		Wetland	2 - PEM		
Remarks: Sampling point is loca	ited within a depr	esional wetland locate	ed in a clearin	g in a shrubland/f	orest.					
HYDROLOGY										
Wetland Hydrology	ndicators:						Seconda	ary Indicators (mini	mum of two required)	
Primary Indicators (minir	num of one is requi	red; check all that apply)						Surface Soil Cracks	(B6)	
Surface Water (A)		True Aquati	c Plants (B14)				Sparsely Vegetated	Concave Surface (B8)	
High Water Table	ulfide Odor (C1)			Drainage Patterns (B10)						
Saturation (A3)		X	Oxidized Rh	nizospheres on Living	g Roots (C3)		Moss Trim Lines (B16)			
Water Marks (B1)			Presence of	f Reduced Iron (C4)			Dry-Season Water Table (C2)			
Sediment Deposit	3 (B2)		Recent Iron	Reduction in Tilled	Soils (C6)		Crayfish Burrows (C8)			
Drift Deposits (B3	1		Thin Muck S	Surface (C7)				Saturation Visible on	Aerial Imagery (C9)	
Algal Mat or Crust	(B4)		Other (Expla	ain in Remarks)				Stunted or Stressed	Plants (D1)	
Iron Deposits (B5)								Geomorphic Position	n (D2)	
	on Aerial Imagery ((B7)						Shallow Aquitard (D3	3)	
Water-Stained Le	aves (B9)						Mircotopographic Relief (D4)			
Aquatic Fauna (B	3)						X	FAC-Neutral Test (D	5)	
Field Observations:										
Surface Water Prese	nt? Yes	No X		Depth (inches):						
Water Table Present		No X		Depth (inches):		Wetland	l Hydrolo	gy Present?		
Saturation Present?	Yes	No X		Depth (inches):		Yes	Х	No		
(includes capillary frin		e, monitoring well, ae	rial nhotos in	revious inspection	s) if available:					
Describe Recorded D	ala (Sileani gaug	je, monitoring weil, ae	nai priotos, p		s), ii avaliable.					
Remarks:										

Sampling Point:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1.	// 00101	000000		That Are OBL, FACW, or FAC: 3 (A)
2	·			
2				Total Number of Dominant
1				
				Species Across All Strata:3(B)
5	·			Demonstrat Demoisred Operation
6	·		·	Percent of Dominant Species
7				That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
	0	= Total Cove	r	Prevalence Index worksheet:
Sapling Stratum: (Plot Size: 15)			
1	·			Total % Cover of: Multiply by:
2	·			OBL species x 1 =
3	·			FACW species x 2 =
4	·			FAC species x 3 =
5				FACU species x 4 =
6				UPL species X 5 =
7				Column Totals:(A)(B)
	0	= Total Cove	r	
Shrub Stratum: (Plot Size: 15)			Prevalence Index = B/A =
1				
2				Hydrophytic Vegetation Indicators:
3				1 - Rapid Test for Hydrophytic Vegetation
4				X 2 - Dominance Test is >50%
5				3 - Prevalence Index is ≤3.0 ¹
6.				4 - Morphological Adaptations ¹ (Provide supporting
7.				data in Remarks or on a separate sheet)
	0	= Total Cove	r	Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum: (Plot size: 5)			
1 Decharge endiadaise	30	Y	FACW	¹ Indicators of hydric soil and wetland hydrology must
2. Microstegium vimineum	35	Y	FAC	be present, unless disturbed or problematic.
3. Persicaria sagittata	20	Y	OBL	Definitions of Four Vegetation Strata:
4. Teucrium canadense	10	N	FACW	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Scirpus atrovirens	5	N	OBL	more in diameter at breast height (DBH), regardless of height.
6				Sapling - Woody plants, excluding woody vines, aproximately 20 ft
7.				(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
0				Shrub - Woody plants, excluding woody vines, aproximately 3 to 20
o 9	·			ft (1 to 6 m) in height.
10			·	Herb - All herbaceous (non-woody) plants, regardless
11	·			of size, and woody plants less than 3.28 ft tall.
11 12				Woody Vines - All woody vines greater than 3.28 ft in height.
		= Total Cove		
Woody Vine Stratum: (Plot size: 30		- 10101 0010	1	
	· ·			
2				Hydrophytic
3.				Vegetation
4 5.				Present? Yes X No
5	0	= Total Cove	r	
		= 10101 0070		
Remarks: (Include photo numbers here or on a se	parate sheet.)			

Profile Desc	ription: (Describe to t	he depth	needed to documen	t the indi	cator or conf	irm the ab	sence of indicators	.)		
Depth	Matrix			Redox Fea	tures		_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-16	10YR 4/2	80	7.5YR 4/6	10	С	PL/M	Clay Loam	Disturbed, mixed matrix		
	10YR 5/6	10								
		·								
		·								
¹ Type: C=Con	centration, D=Depletion, F	RM=Reduc	ed Matrix, MS=Masked	Sand Grair	IS.		² Location: PL= Pore	e Lining, M=Matrix.		
Hydric Soil In	dicators:						Indicators for Prob	elematic Hydric Soils ³ :		
Histosol (A	A1)		Dark Surface (S7))			2 cm Muck (A1	0) (MLRA 147)		
Histic Epi	pedon (A2)		Polyvalue Below S	Surface (S8	B) (MLRA 147,1	48)	Coast Prairie R	edox (A16)		
Black Hist			Thin Dark Surface	• • •	RA147, 148)		(MLRA 147, 1			
· · ·	Sulfide (A4)		Loamy Gleyed Ma					dplain Soils (F19)		
	Layers (A5) k (A10) (LRR N)		X Depleted Matrix (F Redox Dark Surfa				(MLRA 136, 1	47) Dark Surface (TF12)		
	Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)						Other (Explain			
	k Surface (A12)		Redox Depression				、	,		
Sandy Mu	ucky Mineral (S1) (LRR N,		Iron-Manganese I	Masses (F1	2) (LRR N,					
	147, 148)		MLRA 136)				<u>_</u>			
	eyed Matrix (S4)		Umbric Surface (F			-	-	ophytic vegetation and		
Sandy Re	dox (S5) Matrix (S6)		Piedmont Floodpl Red Parent Mater			-		gy must be present, ed or problematic.		
				iai (i 2 i) (i)				
Restrictive La	yer (if observed):									
Туре:										
Depth (inc	ches):						Hydric Soil Present? Yes X No			
Remarks:										
Depth (inc	ches):						Hydric Soil Presen	t? Yes X No		

Project/Site:	332-793 MAN	114 U1 Pipeline and \	Vaterline	City/County:	Westmorelan	d County		Sampling Date:	July 31, 2023	
Applicant/Owner:		CNX Midstream	Operating Con	npany LLC		State:	PA	Sampling Point:	SP-4	
Investigator(s):		ARS, APB		Se	ction, Township	, Range:		Washington -	Township	
Landform (hillslope, ter	ace, etc.):	Flat	plain	Local Re	lief (concave, con	vex, none):	(Concave	Slope (%):	
Subregion (LRR or MI	-	LRR N		40.538530			549026			
Soil Map Unit Name:	· –	n silt loam, 8 to 15 pe						ification:		
Are climatic/hydrologic					Yes X	No			19/7	
Are Vegetation		No , or Hydrold	-	significantly distu		are "Normal Ci Yes				
Are Vegetation	<u>No</u> , Soil _	<u>No</u> , or Hydrold	igy <u>No</u> ı	naturally problem	atic? (I		-	ers in Remarks.)		
SUMMARY OF FIN	IDINGS - Atta	ach site map sho	wing samplin	ng point locat	ons, transec	ts, importa	nt featur	es, etc.		
Hydrophytic Vegetatio	n Present?		Yes X	No						
Hydric Soil Present?			Yes X	No	Is the Sampled	Area Yes	Х	No		
Wetland Hydrology Pr	esent?		Yes X	No	within a Wetla		Wetland	3 - PFO		
Remarks: Sampling point is loca	ted within a dep	resion in a forest, adji	acent to an exis	ting pipeline ROV	V.					
HYDROLOGY										
Wetland Hydrology I	ndicators:						Second	ary Indicators (mini	mum of two required)	
Primary Indicators (minim	ium of one is requ	ired; check all that apply	()					Surface Soil Cracks	(B6)	
Surface Water (A1)		True Aquatic	Plants (B14)				Sparsely Vegetated	Concave Surface (B8)	
High Water Table	(A2)		Hydrogen Sulfide Odor (C1)					Drainage Patterns (B10)		
Saturation (A3)		X	Oxidized Rhiz	zospheres on Living	Roots (C3)			Moss Trim Lines (B1	6)	
Water Marks (B1)			Presence of	Reduced Iron (C4)			Dry-Season Water Table (C2)			
Sediment Deposits	(B2)		Recent Iron F	Reduction in Tilled S	Soils (C6)			Crayfish Burrows (C8)		
Drift Deposits (B3)			Thin Muck St	urface (C7)			Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust	(B4)		Other (Explai	n in Remarks)			Stunted or Stressed Plants (D1)			
Iron Deposits (B5)								Geomorphic Position	n (D2)	
Inundation Visible	on Aerial Imagery	(B7)						Shallow Aquitard (D3	3)	
Water-Stained Lea	ves (B9)							Mircotopographic Re	elief (D4)	
Aquatic Fauna (B1	3)						Х	FAC-Neutral Test (D	5)	
Field Observations:										
Surface Water Preser	t? Yes	NoX		Depth (inches):						
Water Table Present?	_	NoX		Depth (inches):		Wetlan	d Hydrolo	gy Present?		
Saturation Present?	Yes	No X		Depth (inches):			Х			
(includes capillary fring				Bopan (monoo).		100	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
Describe Recorded D	ata (stream gau	ge, monitoring well, a	erial photos, pre	evious inspection	s), if available:					
Remarks:										

Sampling	Point:	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
Acer rubrum	60	Y	FAC	That Are OBL, FACW, or FAC:5 (A)
2. Liriodendron tulipifera	10	N	FACU	
3			<u> </u>	Total Number of Dominant
	·	·		Species Across All Strata: <u>5</u> (B)
				Deveet of Developet Creation
). 				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/
	70	= Total Cove		
Sapling Stratum: (Plot Size: 15			I	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)
-	0	= Total Cove	r	(),())
Shrub Stratum: (Plot Size: 15		= 101010000	1	Prevalence Index = B/A =
	.'	Y	FAC	
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
·		·		$3 - $ Prevalence Index is $\leq 3.0^{1}$
			·	4 - Morphological Adaptations ¹ (Provide supporting
·			·	data in Remarks or on a separate sheet)
·	20	= Total Cove	r	Problematic Hydrophytic Vegetation ¹ (Explain)
lerb Stratum: (Plot size: 5				
. Onoclea sensibilis	20	Y	FACW	¹ Indicators of hydric soil and wetland hydrology must
. Persicaria sagittata	30	Y	OBL	be present, unless disturbed or problematic.
. Microstegium vimineum		Y	FAC	Definitions of Four Vegetation Strata:
. Mimulus ringens	5	N	OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
. Impatiens sp.	15	N	FACW	more in diameter at breast height (DBH), regardless of height.
i.				Sapling - Woody plants, excluding woody vines, aproximately 20
				(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
				Shrub - Woody plants, excluding woody vines, aproximately 3 to
				ft (1 to 6 m) in height.
0				Herb - All herbaceous (non-woody) plants, regardless
1				of size, and woody plants less than 3.28 ft tall.
2				Woody Vines - All woody vines greater than 3.28 ft in height.
	100	= Total Cove	r	
Voody Vine Stratum: (Plot size: 30)			
		. <u> </u>		Hydrophytic
				Vegetation
				Present? Yes X No
	0	= Total Cove		

	ription: (Describe to t	he depth				firm the ab	sence of indicators.)	
Depth	Matrix			Redox Fea			-	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 4/2	95	7.5YR 4/6	5	С	PL/M	Clay Loam	
		·						
		·						
		·						
				_				
		·						
		·					- <u></u>	
		·						
¹ Turney C. Cerr	D Depletion [² l continue Di Doro Li	ning ba basis
	centration, D=Depletion, F	KIM=Reduc	ed Matrix, MS=Masked	Sand Grair	15.		² Location: PL= Pore Li	
Hydric Soil In							Indicators for Problem	-
Histosol (Dark Surface (S7)				2 cm Muck (A10)	
	bedon (A2)		Polyvalue Below S			148)	Coast Prairie Red	
Black Hist			Thin Dark Surface		RA147, 148)		(MLRA 147, 148)	
· · ·	Sulfide (A4)		Loamy Gleyed Ma				Piedmont Floodpla	
	_ayers (A5)		X Depleted Matrix (F				(MLRA 136, 147)	
	k (A10) (LRR N) Rolow Dark Surfage (A11)		Redox Dark Surfa Depleted Dark Su				Very Shallow Dark	
	Below Dark Surface (A11) k Surface (A12)		Redox Depression				Other (Explain in F	(emarks)
	cky Mineral (S1) (LRR N,		Iron-Manganese I	. ,	2) (LRR N.			
	147, 148)			1.40000 (1	, (,			
	eyed Matrix (S4)		Umbric Surface (F	- 13) (MLR	A 136, 122)		³ Indicators of hydroph	vtic vegetation and
Sandy Re			Piedmont Floodpl		-	8)	wetland hydrology i	
	Aatrix (S6)		Red Parent Mater			-	unless disturbed	
Restrictive La	yer (if observed):							
Type:								
Depth (inc	hes):						Hydric Soil Present?	Yes X No
I V	·							
Remarks:								
1								

Project/Site:	332-793 MA	M14 U1 Pipeline and Wa	erline City/0	County:	Westmorelan	d County		Sampling Date:	July 31, 2023
Applicant/Owner:		CNX Midstream Op	LLC		State	e: PA	Sampling Point:	SP-5	
Investigator(s):		ARS, APB		Sect	ion, Township	, Range:		Washington 1	ownship
Landform (hillslope, te	errace, etc.):	Flat pla	in	Local Relie	f (concave, con	ivex, none):		None	Slope (%):
Subregion (LRR or M	/LRA):	LRR N	Lat:	40.538668	Long:	-7	9.549619	Datum:	NAD83
Soil Map Unit Name	Wharto	on silt loam, 8 to 15 perce	nt slopes				NWI class	sification:	N/A
		the site typical for this tim			Yes X	No		plain in Remarks.)	
Are Vegetation	<u>No</u> , Soil	<u>No</u> , or Hydrology	-	cantly disturb				ces" present?	
Are Vegetation	<u>No</u> , Soil	No , or Hydrology	<u>No</u> natura	lly problemat	ic? (If needed, exp	lain any answ	vers in Remarks.)	
SUMMARY OF F	INDINGS - Att	ach site map showir	ng sampling po	oint locatio	ns, transec	ts, import	ant featur	es, etc.	
Hydrophytic Vegetat	ion Present?			0 <u>X</u>					
Hydric Soil Present?			Yes N	o <u>X</u>	s the Sampled	d Area Ye	s	No <u>X</u>	
Wetland Hydrology F	Present?		Yes No	o <u>X</u>	within a Wetla	and?	Upl	and	
Sampling point is loc	ated in a foreste	d flat plain, adjacent to W	etland 2, 3, and 4						
HYDROLOGY									
Wetland Hydrology	Indicators:						Second	ary Indicators (minir	mum of two required)
Primary Indicators (min	imum of one is req	uired; check all that apply)						Surface Soil Cracks (B6)
Surface Water (A	41)		True Aquatic Plants	(B14)				Sparsely Vegetated 0	Concave Surface (B8)
High Water Table	e (A2)		Hydrogen Sulfide O	dor (C1)				Drainage Patterns (B	10)
Saturation (A3)			Oxidized Rhizosphe	eres on Living F	Roots (C3)			Moss Trim Lines (B1	6)
Water Marks (B1)		Presence of Reduce	ed Iron (C4)				Dry-Season Water Ta	able (C2)
Sediment Depos	its (B2)		Recent Iron Reduct	ion in Tilled So	ils (C6)			Crayfish Burrows (C8	3)
Drift Deposits (B	3)		Thin Muck Surface	(C7)				Saturation Visible on	Aerial Imagery (C9)
Algal Mat or Crus	st (B4)		Other (Explain in Re	emarks)				Stunted or Stressed I	Plants (D1)
Iron Deposits (B	5)							Geomorphic Position	(D2)
	e on Aerial Imagery	/ (B7)						Shallow Aquitard (D3)
Water-Stained Lo	eaves (B9)							Mircotopographic Rel	ief (D4)
Aquatic Fauna (E	313)							FAC-Neutral Test (D	5)
Field Observations	:								
Surface Water Prese	ent? Yes	NoX	Depth	(inches):					
Water Table Present	t? Yes	No X	Depth	(inches):		Wetla	nd Hydrolo	ogy Present?	
Saturation Present? (includes capillary fri	Yes nge)	No <u>X</u>	Depth	(inches):		Yes		No <u>X</u>	
Describe Recorded	Data (stream gau	uge, monitoring well, aeria	Il photos, previous	inspections)	, if available:				
Remarks:									
1									

Sampling I	Point:
------------	--------

Tree Stratum (Plot size: 30)		Dominant	Indicator	Dominance Test worksheet:	
	Absolute % Cover	Species?	Status	Number of Dominant Species	
. Juglans nigra	10	Y	FACU	That Are OBL, FACW, or FAC: 3	(A)
. Carya cordiformis	30	Y	FACU		
. Acer rubrum	20	Y	FAC	Total Number of Dominant	
		<u> </u>		Species Across All Strata: 7	(B)
					(=)
				Percent of Dominant Species	
				That Are OBL, FACW, or FAC: 43%	(A/B)
		= Total Cover			(/\D)
Conling Stratum: (Dist Size: 15				Prevalence Index worksheet:	
apling Stratum: (Plot Size: 15)			Tatal 0/ Causa af	
				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)
	0	= Total Cover	r		
Shrub Stratum: (Plot Size: 15	_)			Prevalence Index = B/A =	
. Lindera benzoin	20	Y	FAC		
. Rosa multiflora	30	Y	FACU	Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
· · ·				2 - Dominance Test is >50%	
				3 - Prevalence Index is ≤3.0 ¹	
				4 - Morphological Adaptations ¹ (Provide supporting	
				data in Remarks or on a separate sheet)	
	50	Tatal Cause		Problematic Hydrophytic Vegetation ¹ (Explain)	
lerb Stratum: (Plot size: 5		= Total Cover			
)				
Microstegium vimineum)50	Y	FAC	¹ Indicators of hydric soil and wetland hydrology must	
Microstegium vimineum Microstegium vimineum Rosa multiflora) 50 20	Y Y	FAC FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Microstegium vimineum Rosa multiflora Persicaria virginiana) 50 20 10	Y Y N	FAC FACU FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata:	
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense) 50 20	Y Y N N	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or 	pht.
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense) 50 20 10	Y Y N N	FAC FACU FAC	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height 	
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense) 	Y Y N N	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproxima 	
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense) 	Y Y N N	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproxima (6 m) or more in height and less than 3 in. (7.6 cm) DBH. 	ely 20 ft
Microstegium vimineum Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense .) 	Y Y N N	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproxima (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate 	ely 20 ft
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense) 	Y Y N N	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproximat (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. 	ely 20 ft
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense) 	Y Y N N 	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproximat (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, regardless 	ely 20 ft
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense) 	Y Y N N 	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproximat (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 	tely 20 ft ly 3 to 20
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense . <t< td=""><td>) </td><td>Y Y N N </td><td>FAC FACU FAC FACW</td><td> ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproximat (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, regardless </td><td>tely 20 ft ly 3 to 20</td></t<>) 	Y Y N N 	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproximat (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, regardless 	tely 20 ft ly 3 to 20
Microstegium vimineum Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense . <td>) </td> <td>Y Y N N </td> <td>FAC FACU FAC FACW</td> <td> ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproximat (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. </td> <td>tely 20 ft ly 3 to 20</td>) 	Y Y N N 	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproximat (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 	tely 20 ft ly 3 to 20
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense . <t< td=""><td>) 50 10 5 </td><td>Y Y N N </td><td>FAC FACU FAC FACW</td><td> ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproximat (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. </td><td>tely 20 ft ly 3 to 20</td></t<>) 50 10 5 	Y Y N N 	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproximat (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 	tely 20 ft ly 3 to 20
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense) 50 10 5 	Y Y N N 	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling - Woody plants, excluding woody vines, aproximat (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 	tely 20 ft ly 3 to 20
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense) 50 10 5 	Y N N =	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heig Sapling - Woody plants, excluding woody vines, aproxima (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. 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 	tely 20 ft ly 3 to 20
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense) 50 10 5 	Y N N = Total Cover	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heige Sapling - Woody plants, excluding woody vines, aproxima (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. 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 Hydrophytic 	tely 20 ft ly 3 to 20
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense .) 50 10 5 	Y N N =	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heig Sapling - Woody plants, excluding woody vines, aproxima (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. 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 	ly 3 to 20 ht.
Microstegium vimineum Rosa multiflora Persicaria virginiana Teucrium canadense) 50 10 5 	Y N N =	FAC FACU FAC FACW	 ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heige Sapling - Woody plants, excluding woody vines, aproxima (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vines, aproximate ft (1 to 6 m) in height. 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 Hydrophytic Vegetation 	ly 3 to 20

Profile Desc	ription: (Describe to t	he depth r	needed to documer	nt the indic	cator or conf	irm the ab	sence of indicators.)	
Depth	Matrix			Redox Fea	tures		_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 4/4	100					Clay loam	
0 10					· ·			
					<u> </u>			
					· ·			
					<u> </u>			
¹ Type: C=Con	centration, D=Depletion, R	M=Reduce	d Matrix, MS=Masked	Sand Grain	IS.		² Location: PL= Pore Li	ning, M=Matrix.
Hydric Soil In			,				Indicators for Problem	
-			Dork Surface (07	~				-
Histosol (/		-	Dark Surface (S7	,) (MI DA 1474	48)	2 cm Muck (A10)	
Black Hist	bedon (A2)	-	Polyvalue Below Thin Dark Surface			-0)	Coast Prairie Red (MLRA 147, 148)	
	Sulfide (A4)	-	Loamy Gleyed M		A147, 140)		Piedmont Floodpla	
· · ·	Layers (A5)	-	Depleted Matrix ((MLRA 136, 147)	
	k (A10) (LRR N)	-	Redox Dark Surfa				Very Shallow Dark	
	Below Dark Surface (A11)	-	Depleted Dark Su				Other (Explain in F	
	k Surface (A12)	-	Redox Depressio					
	icky Mineral (S1) (LRR N,	-	Iron-Manganese		2) (LRR N,			
	147, 148)	-	MLRA 136)					
	eyed Matrix (S4)		Umbric Surface (F13) (MLRA	A 136, 122)		³ Indicators of hydroph	lytic vegetation and
Sandy Re	dox (S5)	-	Piedmont Floodp	lain Soils (F	19) (MLRA 148	s)	wetland hydrology	must be present,
Stripped N	Matrix (S6)	-	Red Parent Mate	rial (F21) (N	ILRA 127, 147)		unless disturbed	or problematic.
Restrictive La	yer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soil Present?	Yes <u>No X</u>
Remarks:								

332-793 MAN	114 U1 Pipeline and Water	line City/County:	Westmorelan	d County		Sampling Date:	July 31, 2023
	CNX Midstream Oper	ating Company LLC		State:	PA	Sampling Point:	SP-6
	ARS, APB		Section, Township	, Range:		Washington	Township
ace, etc.):	Depressior	Local	Relief (concave, con	vex, none):		Concave	Slope (%):
	•				549836		
-			<u> </u>				
			Ves X				1073
		-		Are "Normal Ci	rcumstanc	es" present?	
<u>No</u> , Soil _	No , or Hydrology	No naturally prob	ematic? (I				
NDINGS - Atta	ich site map showing	sampling point loo	cations, transec	ts, importa	nt featur	es, etc.	
n Present?	Ye	es <u>X</u> No					
	Ye	es <u>X</u> No	Is the Sampled	Area Yes	X	No	
esent?	Ye	es <u>X</u> No			Wetland	4 - PEM	
ted within a depr	resional wetland located or	an old road in a forest	Wetland is compris	sed of two par	ts; 4A and	4B.	
ndicators:					Second	ary Indicators (mini	mum of two required)
num of one is requ	ired; check all that apply)					Surface Soil Cracks	(B6)
)	Tr	ue Aquatic Plants (B14)				Sparsely Vegetated	Concave Surface (B8)
(A2)	H	drogen Sulfide Odor (C1)				Drainage Patterns (B	310)
	<u> </u>	kidized Rhizospheres on L	ving Roots (C3)			Moss Trim Lines (B1	6)
	Pr	esence of Reduced Iron (24)			Dry-Season Water T	able (C2)
s (B2)	R	ecent Iron Reduction in Till	ed Soils (C6)		. <u> </u>	Crayfish Burrows (C	8)
	Tł	in Muck Surface (C7)				Saturation Visible or	Aerial Imagery (C9)
(B4)	O	her (Explain in Remarks)				Stunted or Stressed	Plants (D1)
						Geomorphic Position	n (D2)
	(B7)						
aves (B9)							
3)					X	FAC-Neutral Test (D	5)
nt? Yes	No X	Depth (inches):				
Yes	No X	Depth (inches):	Wetlan	d Hydrolo	gy Present?	
Yes _ ge)	No <u>X</u>	Depth (inches):	Yes	Х	No	
ata (stream gau	ge, monitoring well, aerial p	hotos, previous inspec	tions), if available:				
	race, etc.):	CNX Midstream Oper ARS, APB race, etc.): Depression LRA): LRR N Wharton silt loam, 8 to 15 percent c conditions on the site typical for this time of No , Soil No , or Hydrology On Present? Ye Ye Ye ated within a depresional wetland located or Tr (A2)	CNX Midstream Operating Company LLC ARS, APB race, etc.): Depression Local LRA): LRR N Lat: 40.5390 Wharton silt loam, 8 to 15 percent slopes c c conditions on the site typical for this time of year? No , Soil No , or Hydrology No significantly di No , Soil No , or Hydrology No naturally proble NDINGS - Attach site map showing sampling point loc no neurally proble NDINGS - Attach site map showing sampling point loc no resent? Yes No	CNX Midstream Operating Company LLC ARS, APB Section, Township Trace, etc.): Depression Local Relief (concave, con LRA): LRR N Lat: 40.539011 Long: Wharton silt loam, 8 to 15 percent slopes c c conditions on the site typical for this time of year? Yes X No , Soil No , or Hydrology No naturally problematic? (C NDINGS - Attach site map showing sampling point locations, transection on Present? Yes X No Is the Sampled Indicators: num of one is required; check all that apply) 1)	CNX Midstream Operating Company LLC State: ARS, APB Section, Township, Range: race, etc.): Depression Local Relief (concave, convex, none): LRA): LRR N Lat: 40.539011 Long: -79, Wharton silt loam, 8 to 15 percent slopes conditions on the site typical for this time of year? Yes X No -78, No , Soil No , or Hydrology No significantly disturbed? Are "Normal Ci No , Soil No , or Hydrology No naturally problematic? (If needed, expla NDINGS - Attach site map showing sampling point locations, transects, important Yes No Yes no Present? Yes No Is the Sampled Area Yes resent? Yes No Is the Sampled Area Yes num of one is required; check all that apply) 1 True Aquatic Plants (B14) (A2) Hydrogen Suffide Odor (C1) X Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Se(62) Coxidized Rhizospheres on Living Roots (C3) Thin Muck Surface (C7) Thin Muck Su	CNX Midstream Operating Company LLC State: PA ARS, APB Section, Township, Range:	CNX Midstream Operating Company LLC State: PA Sampling Point ARS, APB Section, Township, Range: Washington race, etc.): Depression Local Relief (concave, convex, none): Concave LRA): LRR N Lat: 40.539011 Long: -72.549836 Datum: Wharton sill barn, 8 to 15 percent slopes NWI classification:

Sampling Point:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1,				That Are OBL, FACW, or FAC: 3 (A)
2				
3			<u> </u>	Total Number of Dominant
4		<u> </u>		Species Across All Strata: <u>3</u> (B)
5			<u> </u>	Descent of Descine (Descine
6			<u> </u>	Percent of Dominant Species
7		= Total Cover		That Are OBL, FACW, or FAC: 100% (A/B)
Sapling Stratum: (Plot Size: 15				Prevalence Index worksheet:
1	-			Total % Cover of: Multiply by:
2.				OBL species x 1 =
3.				FACW species x 2 =
4.				FAC species x 3 =
5.				FACU species x 4 =
6.				UPL species x 5 =
7.				Column Totals: (A) (B)
		= Total Cover		
Shrub Stratum: (Plot Size: <u>15</u> 1.				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
_				$3 - $ Prevalence Index is $\leq 3.0^{1}$
				4 - Morphological Adaptations ¹ (Provide supporting
6 7.				data in Remarks or on a separate sheet)
	0	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum: (Plot size: 5)			
1. Scirpus cyperinus	15	Y	FACW	¹ Indicators of hydric soil and wetland hydrology must
2. Microstegium vimineum	40	Y	FAC	be present, unless disturbed or problematic.
3. Juncus effusus	5	N	FACW	Definitions of Four Vegetation Strata:
4. Persicaria sagittata	10	Ν	OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5. <i>Impatiens</i> sp.	5	N	FACW	more in diameter at breast height (DBH), regardless of height.
6. Persicaria virginiana	10	<u> </u>	FAC	Sapling - Woody plants, excluding woody vines, aproximately 20 ft
7. Persicaria maculosa	15	Y	FACW	(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
8 9.	· ·			Shrub - Woody plants, excluding woody vines, aproximately 3 to 20 ft (1 to 6 m) in height.
10				Herb - All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody Vines - All woody vines greater than 3.28 ft in height.
		= Total Cover		
Woody Vine Stratum: (Plot size: 30	- '			
4				
1				Hydrophytic
2.				
2				Vegetation
2.				

	ription: (Describe to t	he depth				irm the abs	sence of indicators.)	
Depth	Matrix			Redox Feat		2	-	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 4/2	85	7.5YR 4/6	15	С	PL/M	Clay Loam	
		·			·			
		· <u> </u>			·			
		·			·			
		· <u> </u>						
		·			·			
¹ Type: C=Con	centration, D=Depletion, F	RM=Reduce	ed Matrix, MS=Masked	Sand Grain	s.		² Location: PL= Pore Li	ning, M=Matrix.
Hydric Soil Ind	dicators:						Indicators for Problem	natic Hydric Soils ³ :
Histosol (/	A1)		Dark Surface (S7))			2 cm Muck (A10) (-
	bedon (A2)		Polyvalue Below S) (MLRA 147.1	48)	Coast Prairie Redo	
Black Hist			Thin Dark Surface			,	(MLRA 147, 148)	
	Sulfide (A4)		Loamy Gleyed Ma		, ,		Piedmont Floodpla	
	_ayers (A5)		X Depleted Matrix (F				(MLRA 136, 147)	
	k (A10) (LRR N)		Redox Dark Surfa				Very Shallow Dark	
	Below Dark Surface (A11)		Depleted Dark Su				Other (Explain in R	
	k Surface (A12)		Redox Depression				<u> </u>	
	cky Mineral (S1) (LRR N,		Iron-Manganese I	Masses (F1	2) (LRR N,			
MLRA	147, 148)		MLRA 136)					
Sandy Gle	eyed Matrix (S4)		Umbric Surface (F	-13) (MLRA	136, 122)		³ Indicators of hydroph	ytic vegetation and
Sandy Re	dox (S5)		Piedmont Floodpl	ain Soils (F	19) (MLRA 148	3)	wetland hydrology r	nust be present,
Stripped N	/atrix (S6)		Red Parent Mater	ial (F21) (M	LRA 127, 147)	1	unless disturbed of	or problematic.
Restrictive La	yer (if observed):							
Type:								
Depth (inc	hes):						Hydric Soil Present?	Yes X No
· ·	,							
Remarks:								
Romano.								
1								

Project/Site:	332-793 MAM	14 U1 Pipeline and	Waterline	City/County:	Westmorelar	nd County		Sampling Date:	July 31, 2023
Applicant/Owner:		CNX Midstrear	n Operating Cor	npany LLC		State	: PA	Sampling Point:	SP-7
Investigator(s):		ARS, APE	3	Se	ction, Township	o, Range:		Washington	Township
Landform (hillslope, terr	ace, etc.):	Floo	odplain	Local Re	lief (concave, co	nvex, none):		Concave	Slope (%):
Subregion (LRR or ML	RA):	LRR N	Lat:	40.539103	Long:	-79	.551105	Datum:	NAD83
Soil Map Unit Name:	Gilpin ch	annery silt loam, 15	5 to 25 percent s	lopes			NWI class	sification:	N/A
Are climatic/hydrologic	conditions on th	e site typical for this	s time of year?		Yes X	No	(If no, e	kplain in Remarks.)	
Are Vegetation		No , or Hydrol	-	significantly distu	rbed?	Are "Normal C Yes		ces" present?	
Are Vegetation	<u>No</u> , Soil	<u>No</u> , or Hydrol	ogy <u>No</u>	naturally problem	atic?			vers in Remarks.)	
SUMMARY OF FIN	DINGS - Atta	ch site map sho	wing sampli	ng point locat	ions, transe	cts, importa	ant featui	res, etc.	
Hydrophytic Vegetatio	Present?		Yes X	No					
Hydric Soil Present?			Yes X	No	Is the Sample	d Area Ye	з <u>Х</u>	No	
Wetland Hydrology Pr	sent?		Yes X	No	within a Wetl		Wetland	15 - PEM	
Remarks: Sampling point is loca	ed within a depr	esional wetland loca	ated along a per	ennial stream. We	etland is compr	ised of four pa	arts; 5A, 5E	8, 5C and 5D.	
HYDROLOGY									
Wetland Hydrology I	dicators:						Second	<u>ary Indicators (min</u>	imum of two required)
Primary Indicators (minim	um of one is requir	red; check all that app	ly)					Surface Soil Cracks	(B6)
Surface Water (A1			True Aquatic	Plants (B14)				Sparsely Vegetated	Concave Surface (B8)
High Water Table	42)		Hydrogen Su	Ilfide Odor (C1)			Х	Drainage Patterns (310)
Saturation (A3)			X Oxidized Rhi	zospheres on Living	g Roots (C3)			Moss Trim Lines (B1	6)
Water Marks (B1)			Presence of	Reduced Iron (C4)				_Dry-Season Water T	
Sediment Deposits	(B2)			Reduction in Tilled S	Soils (C6)			Crayfish Burrows (C	
Drift Deposits (B3)			Thin Muck S						n Aerial Imagery (C9)
Algal Mat or Crust	B4)		Other (Explain	in in Remarks)				_Stunted or Stressed	
Iron Deposits (B5)							X	-	
Inundation Visible		B7)						Shallow Aquitard (D	
Water-Stained Lea								_Mircotopographic Re	. ,
Aquatic Fauna (B1	;)						X	FAC-Neutral Test (D	!5)
Field Observations:									
Surface Water Preser	t? Yes	No	X	Depth (inches):					
Water Table Present?	Yes	No	X	Depth (inches):		Wetla	nd Hydrole	ogy Present?	
Saturation Present? (includes capillary fring	Yes	No	X	Depth (inches):		Yes	X	No	
Describe Recorded Da	ta (stream gaug	e, monitoring well, a	aerial photos, pr	evious inspection	s), if available:				
Remarks:									
Remarks.									

Sampling Point:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
<u> </u>		<u> </u>		That Are OBL, FACW, or FAC: 3 (A)
2.				、/
3.				Total Number of Dominant
4.				Species Across All Strata: 3 (B)
5.				
6.				Percent of Dominant Species
7.				That Are OBL, FACW, or FAC: 100% (A/B)
· · · ·		= Total Cover		
Sapling Stratum: (Plot Size: 15				Prevalence Index worksheet:
1	-			Total % Cover of: Multiply by:
				OBL species x 1 =
2				FACW species x 2 =
				FAC species x 3 =
				FACU species X 4 =
				UPL species x 5 =
-				Column Totals: (A) (B)
7	0	= Total Cover		
Shrub Stratum: (Plot Size: 15				Prevalence Index = B/A =
	-			
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
4				X 2 - Dominance Test is >50%
5				$3 - \text{Prevalence Index is } \leq 3.0^{1}$
-				4 - Morphological Adaptations ¹ (Provide supporting
_				data in Remarks or on a separate sheet)
7	0	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum: (Plot size: 5				
1 Imposione on	- 20	Y	FACW	
0 Minute in the state in the second		Y	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
0		Y	OBL	Definitions of Four Vegetation Strata:
 Leersia oryzoides Persicaria sagittata 	15	 N	OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Parathelypteris noveboracensis	10	N	FAC	more in diameter at breast height (DBH), regardless of height.
			-	Sapling - Woody plants, excluding woody vines, aproximately 20 ft
7				(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
o				Shrub - Woody plants, excluding woody vines, aproximately 3 to 20
o				ft (1 to 6 m) in height.
10				Herb - All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
11 12.				Woody Vines - All woody vines greater than 3.28 ft in height.
12.	100	= Total Cover		
Woody Vine Stratum: (Plot size: 30				
1	_			
				Hydrophytic
3				Vegetation Present? Yes X No
Λ				Present? Yes <u>X</u> No
4 5				
4 5	0	= Total Cover		

	ription: (Describe to th	e depth				irm the ab	sence of indicators.)	
Depth	Matrix			Redox Fea		2	-	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 3/1	85	10YR 5/6	15	C	PL/M	Clay Loam	
	centration, D=Depletion, RI	M-Reduce	d Matrix MS-Masked	Sand Grain			² Location: PL= Pore Li	ning M-Matrix
Hydric Soil In	•	N=RCdddd			13.			
-			Ded Out (CT)	`			Indicators for Problem	-
Histosol (A1) pedon (A2)		Dark Surface (S7) Polyvalue Below S			49)	2 cm Muck (A10) (
			Thin Dark Surface			48)	Coast Prairie Redo	
Black His	iic (A3) i Sulfide (A4)		Loamy Gleyed Ma		(A147, 140)		(MLRA 147, 148) Piedmont Floodpla	
	Layers (A5)		Depleted Matrix (F				(MLRA 136, 147)	
	ck (A10) (LRR N)		X Redox Dark Surfa				Very Shallow Dark	
	Below Dark Surface (A11)		Depleted Dark Su				Other (Explain in F	
	k Surface (A12)		Redox Depression					,
	ucky Mineral (S1) (LRR N,		Iron-Manganese I		2) (LRR N,			
MLRA	147, 148)		MLRA 136)					
Sandy Gl	eyed Matrix (S4)		Umbric Surface (F	-13) (MLR	A 136, 122)		³ Indicators of hydroph	ytic vegetation and
Sandy Re	edox (S5)		Piedmont Floodpl	ain Soils (F	19) (MLRA 14 8	3)	wetland hydrology r	nust be present,
Stripped I	Matrix (S6)		Red Parent Mater	ial (F21) (N	ILRA 127, 147)	unless disturbed	or problematic.
Restrictive La	yer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Present?	Yes <u>X</u> No
Remarks:								
l								
l								

Project/Site:	332-793 MA	M14 U1 Pipeline and W	aterline C	ity/County:	Westmorelar	nd County		Sampling Date:	July 31, 2023
Applicant/Owner:		CNX Midstream 0	Operating Compa	any LLC		Sta	ate: PA	Sampling Point:	SP-8
Investigator(s):		ARS, APB		Sec	ction, Township	o, Range:	_	Washington	Township
Landform (hillslope, te	errace, etc.):	Hillslo	pe	Local Rel	ief (concave, cor	nvex, none):		None	Slope (%):
Subregion (LRR or M	/LRA):	LRR N	Lat:	40.539008	Long:		-79.551163	Datum:	NAD83
Soil Map Unit Name:		channery silt loam, 15 to			0 _			sification:	
		the site typical for this ti			Yes X	No		plain in Remarks.)	
Are Vegetation	<u>No</u> , Soil		-	nificantly distur			I Circumstand	ces" present?	
Are Vegetation	<u>No</u> , Soil	No , or Hydrolog	y <u>No</u> nat	turally problema	atic?	(If needed, e	xplain any ansv	vers in Remarks.)	
SUMMARY OF F	INDINGS - Att	ach site map show	ing sampling	point locati	ons, transed	cts, impo	rtant featur	es, etc.	
Hydrophytic Vegetat	ion Present?		Yes	No <u>X</u>					
Hydric Soil Present?			Yes	No <u>X</u>	Is the Sample	d Area	/es	No <u>X</u>	
Wetland Hydrology F	Present?		Yes	No <u>X</u>	within a Wetl	land?	Up	land	
Remarks: Sampling point is loc	ated on a forest	ed hillslope adjacent to h	Wetland 5.						
HYDROLOGY									
Wetland Hydrology	Indicators:						Second	lary Indicators (mini	mum of two required)
Primary Indicators (min	imum of one is req	uired; check all that apply)						Surface Soil Cracks	(B6)
Surface Water (A	A1)		True Aquatic Pla	ants (B14)				Sparsely Vegetated	Concave Surface (B8)
High Water Table	e (A2)	·	Hydrogen Sulfid					Drainage Patterns (B	:10)
Saturation (A3)			_Oxidized Rhizos	pheres on Living	Roots (C3)			Moss Trim Lines (B1	6)
Water Marks (B1			Presence of Re					Dry-Season Water Ta	
Sediment Depos			_	duction in Tilled S	Soils (C6)			Crayfish Burrows (C8	
Drift Deposits (B			Thin Muck Surfa					Saturation Visible on	
Algal Mat or Crus			_Other (Explain i	n Remarks)				_Stunted or Stressed	
Iron Deposits (B								Geomorphic Position	
	e on Aerial Imager	y (B7)						Shallow Aquitard (D3	
Water-Stained Le								Mircotopographic Re	
Aquatic Fauna (E	313)							_FAC-Neutral Test (D	5)
Field Observations	:								
Surface Water Prese	ent? Yes	No	X De	pth (inches):					
Water Table Present				pth (inches):		Wet	tland Hydrold	ogy Present?	
Saturation Present? (includes capillary fri	Yes	No	X De	pth (inches):		Ye	es	NoX	
		uge, monitoring well, ae	ial photos, previ	ous inspections	s), if available:				
Remarks:									
Nomano.									

Sampling	Point:	

VEGETATION (Five Strata) - Use scient	tific names o	of plants.		Sampling Point:	SP-8
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species	
1. Tsuga canadensis	20	Y	FACU	That Are OBL, FACW, or FAC:	<u>2</u> (A)
2. Quercus alba	10	Ν	FACU		
3. Acer platanoides	30	Y	UPL	Total Number of Dominant	
4. Acer saccharum	20	Y	FACU	Species Across All Strata:	<u>6</u> (B)
5.	·				
6.				Percent of Dominant Species	
7.				That Are OBL, FACW, or FAC: 3	33% (A/B)
	80	= Total Cover			
Sapling Stratum: (Plot Size: 15)			Prevalence Index worksheet:	
1	_			Total % Cover of: Multi	iply by:
2.				OBL species x 1 =	
3.				FACW species x 2 =	
4.				FAC species x 3 =	
5				FACU species x 4 =	
6.				UPL species x 5 =	
7.				Column Totals: (A)	
	0	= Total Cover			
Shrub Stratum: (Plot Size: 15)			Prevalence Index = B/A =	
1. Lindera benzoin		Y	FAC		
2. Rosa multiflora	25	Y	FACU	Hydrophytic Vegetation Indicators:	
3. Rubus allegheniensis	10	N	FACU	1 - Rapid Test for Hydrophytic Vegetation	
4				2 - Dominance Test is >50%	
F				$3 - Prevalence Index is \leq 3.0^1$	
				4 - Morphological Adaptations ¹ (Provide supp	orting
6 7.				data in Remarks or on a separate sheet)	J.
	55	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explair	n)
Herb Stratum: (Plot size: 5		- 1010.0011			,
1. Microstegium vimineum		Y	FAC		
	10	N	FACU	¹ Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic.	ist
2 Demiserie viminiene	E	N	FAC	Definitions of Four Vegetation Strata:	
4. Polystichum acrostichoides	10	N	FACU	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Alliaria petiolata	5	N	FACU	more in diameter at breast height (DBH), regardless	/
6. Impatiens sp.	<u></u>	N	FACW	Sapling - Woody plants, excluding woody vines, ap	provimately 20 ft
7		<u>N</u>	1700	(6 m) or more in height and less than 3 in. (7.6 cm)	
8.				Shrub - Woody plants, excluding woody vines, apro	ovimately 3 to 20
0				ft (1 to 6 m) in height.	
9				Herb - All herbaceous (non-woody) plants, regardle	200
10				of size, and woody plants less than 3.28 ft tall.	355
11 12.				Woody Vines - All woody vines greater than 3.28 ft	ft in height
12	80	= Total Cover		Woody vines - All woody vines greater than o.20 h	t III neight.
Woody Vine Stratum: (Plot size: 30		= 10(a) 0000			
1. Vitis vulpina	_) 15	v	FAC		
		Y			
_				Hydrophytic	
3				Vegetation	••
4 5.				Present? Yes	No X
5.	15	= Total Cover			
		- 10101 0010.			
Remarks: (Include photo numbers here or on a se	parate sneet.)				

	ription: (Describe to	the depth r				irm the ab	sence of indicators.)	
Depth	Matrix			Redox Fea			-	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 4/2	100					Silt loam	
6-12	10YR 4/4	100					Silt loam	
							<u> </u>	
					. <u> </u>			
ļ								
	centration, D=Depletion,	RM=Reduce	d Matrix, MS=Masked	Sand Grain	S.		² Location: PL= Pore Li	
Hydric Soil In							Indicators for Problem	-
Histosol (A1) pedon (A2)	-	Dark Surface (S7 Polyvalue Below) (MI RA 147 1	48)	2 cm Muck (A10) Coast Prairie Red	
Black His		-	Thin Dark Surface		, .	40)	(MLRA 147, 148)	
	i Sulfide (A4)	-	Loamy Gleyed M				Piedmont Floodpla	
_ · ·	Layers (A5)	-	Depleted Matrix (. ,			(MLRA 136, 147)	
	k (A10) (LRR N)	-	Redox Dark Surfa				Very Shallow Dark	
Depleted	Below Dark Surface (A11) -	Depleted Dark Su				Other (Explain in F	
Thick Dar	k Surface (A12)	-	Redox Depressio	ons (F8)				
Sandy Mu	ucky Mineral (S1) (LRR N	, _	Iron-Manganese	Masses (F1	2) (LRR N,			
MLRA	147, 148)		MLRA 136)					
Sandy Gl	eyed Matrix (S4)	-	Umbric Surface (F13) (MLRA	136, 122)		³ Indicators of hydroph	nytic vegetation and
Sandy Re	edox (S5)	-	Piedmont Floodp	lain Soils (F	19) (MLRA 148	3)	wetland hydrology	must be present,
Stripped I	Matrix (S6)	-	Red Parent Mate	rial (F21) (N	ILRA 127, 147)		unless disturbed	or problematic.
Restrictive La	iyer (if observed):							
Type:	Rock							
Depth (ind	ches): 12						Hydric Soil Present?	Yes <u>No X</u>
Derester								
Remarks:								

Project/Site:	332-793 MA	M14 U1 Pipeline and Wa	aterline City/	/County:	Westmoreland	County		Sampling Date:	July 31, 2023
Applicant/Owner:		CNX Midstream C	perating Company	y LLC		State:	PA	Sampling Point:	SP-9
Investigator(s):		ARS, APB		Section, Township, Range:				Washington	Township
Landform (hillslope, to	m (hillslope, terrace, etc.): Floodplain			Local Relie	ef (concave, conve	ex, none):	Concave Slop		Slope (%):
Subregion (LRR or I	gion (LRR or MLRA): LRR N Lat:			40.539057	Long:	-79.5	52265	Datum:	NAD83
Soil Map Unit Name		ta-Gilpin channery silt lo					WI classi	ication:	
		the site typical for this tir			Yes X			lain in Remarks.)	
Are Vegetation		<u>No</u> , or Hydrolog	-	icantly disturb		e "Normal Ciro Yes			
Are Vegetation	<u>No</u> , Soil	<u>No</u> , or Hydrolog	/ <u>No</u> natura	ally problemat	tic? (If r			rs in Remarks.)	
SUMMARY OF F	INDINGS - Att	ach site map show	ng sampling p	oint locatio	ons, transects	s, importan	t feature	s, etc.	
Hydrophytic Vegetat	ion Present?		Yes X N	lo					
Hydric Soil Present?					s the Sampled A	Area Yes	X	No	
Wetland Hydrology	Present?		Yes <u>X</u> N	lo	within a Wetlan		Wetland 6	6 - PEM	
Remarks: Sampling point is loc	ated in a seep-fe	d wetland on the floodp	lain of stream 2, or	n the hillslope	of a shrub/fores	ted land.			
HYDROLOGY									
Wetland Hydrology	Indicators:						<u>Seconda</u>	ry Indicators (mini	mum of two required)
Primary Indicators (min	imum of one is req	uired; check all that apply)					:	Surface Soil Cracks	(B6)
Surface Water (A	41)		True Aquatic Plants	s (B14)			:	Sparsely Vegetated	Concave Surface (B8)
X High Water Tabl	e (A2)	X	Hydrogen Sulfide C	Odor (C1)			<u> </u>	Drainage Patterns (E	310)
X Saturation (A3)		X	Oxidized Rhizosphe	eres on Living F	Roots (C3)		I	Moss Trim Lines (B1	6)
Water Marks (B*			_Presence of Reduc					Dry-Season Water T	
Sediment Depos			Recent Iron Reduc		ils (C6)			Crayfish Burrows (C	,
Drift Deposits (B			_Thin Muck Surface						Aerial Imagery (C9)
Algal Mat or Cru			_Other (Explain in R	temarks)				Stunted or Stressed	
Iron Deposits (B								Geomorphic Positior	
	e on Aerial Imagery	r (B7)						Shallow Aquitard (D3	-
Water-Stained L								Vircotopographic Re	
Aquatic Fauna (I	313)						<u> </u>	FAC-Neutral Test (D	5)
Field Observations	:								
Surface Water Pres	ent? Yes	NoX	Depth	n (inches):					
Water Table Presen		X No		n (inches):	10	Wetland	l Hydrolog	y Present?	
Saturation Present?	Yes	X No		n (inches):	9	Yes	Х	No	
(includes capillary fri									
Describe Recorded	Data (stream gau	ige, monitoring well, aer	ial photos, previous	s inspections)	, if available:				
Remarks:									

Sampling Point:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: 3 (A)
				Total Number of Dominant
4				Species Across All Strata: 3 (B)
5.				()
6.				Percent of Dominant Species
7.				That Are OBL, FACW, or FAC: 100% (A/B)
		= Total Cover		(*)
Sapling Stratum: (Plot Size: 15				Prevalence Index worksheet:
1	-			Total % Cover of: Multiply by:
				OBL species x 1 =
2				FACW species x 2 =
				FAC species x 3 =
4 5				FACU species x 4 =
6.				UPL species x 5 =
7				Column Totals: (A) (B)
	0	= Total Cover		<u> </u>
Shrub Stratum: (Plot Size: 15	-			Prevalence Index = B/A =
1				
2.				Hydrophytic Vegetation Indicators:
3.				1 - Rapid Test for Hydrophytic Vegetation
4.				X 2 - Dominance Test is >50%
5.				$3 - $ Prevalence Index is $\leq 3.0^1$
				4 - Morphological Adaptations ¹ (Provide supporting
7.		·		data in Remarks or on a separate sheet)
	0	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum: (Plot size: 5				
1 Impotions on	-' 5	N	FACW	
2. Microstegium vimineum		Y	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3 Looroia anzaidas	20	Y	OBL	Definitions of Four Vegetation Strata:
4. Glyceria striata	20	Y	OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Persicaria virginiana	5	N	FAC	more in diameter at breast height (DBH), regardless of height.
6. Juncus effusus	10	N	FACW	Sapling - Woody plants, excluding woody vines, aproximately 20 ft
7				(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
				Shrub - Woody plants, excluding woody vines, aproximately 3 to 20
8 9				ft (1 to 6 m) in height.
10.				Herb - All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12.				Woody Vines - All woody vines greater than 3.28 ft in height.
		= Total Cover		
Woody Vine Stratum: (Plot size: 30				
1	-			
2.				
3.				Hydrophytic
				Vegetation Present? Yes X No
_				
	0	= Total Cover		

Profile Desc	ription: (Describe to	the depth				firm the ab	sence of indicators.)	
Depth	Matrix			Redox Fea			_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 4/2	95	10YR 6/6	5	С	PL	Clay Loam	
6-14	10YR 5/1	95	10YR 6/6	5	С	PL	Clay loam	
17	D. Dentation							ala a MA Matrix
Hydric Soil In	centration, D=Depletion,	RM=Reduce	ed Matrix, MS=Masked	Sand Grain	IS.		² Location: PL= Pore Li Indicators for Problem	
Histosol (Dark Surface (S7)				2 cm Muck (A10)	•
	pedon (A2)		Polyvalue Below S		R) (MI RA 147 ·	148)	Coast Prairie Red	
Black His			Thin Dark Surface		, .	140)	(MLRA 147, 148)	
X Hydrogen			Loamy Gleyed Ma				Piedmont Floodpla	
	Layers (A5)		X Depleted Matrix (F				(MLRA 136, 147)	
2 cm Muc	k (A10) (LRR N)		Redox Dark Surfa	ice (F6)			Very Shallow Dark	Surface (TF12)
Depleted	Below Dark Surface (A11)	Depleted Dark Su	rface (F7)			Other (Explain in F	Remarks)
	k Surface (A12)		Redox Depression	. ,				
	ucky Mineral (S1) (LRR N	,	Iron-Manganese I	Masses (F1	12) (LRR N,			
	147, 148)		MLRA 136)		A 400 400)		3 and a start of the start of t	- dia constantino and
Sandy Gi Sandy Re	eyed Matrix (S4)		Umbric Surface (F Piedmont Floodpl		-	0)	³ Indicators of hydroph wetland hydrology r	
	Matrix (S6)		Red Parent Mater			-	unless disturbed	
Restrictive La Type:	yer (if observed):							
Depth (inc	ches):						Hydric Soil Present?	Yes X No
Doput (in		<u>.</u>						
Remarks:							1	

Project/Site:	332-793 MA	M14 U1 Pipeline and Wa	aterline (City/County:	Westmorelar	nd County		Sampling Date:	July 31, 2023
Applicant/Owner:		CNX Midstream C	perating Comp	oany LLC		State	PA	Sampling Point:	SP-10
Investigator(s):		ARS, APB		Se	ction, Township	o, Range:		Washington	Township
Landform (hillslope, te	rrace, etc.):	Hillslo	ре	Local Rel	ief (concave, cor	nvex, none):		None	Slope (%):
Subregion (LRR or M	ILRA):	LRR N	Lat:	40.538972	Long:	-79	.552367	Datum:	NAD83
Soil Map Unit Name:		ta-Gilpin channery silt lo	ams. 25 to 75					sification:	
		the site typical for this tir			Yes X	No		plain in Remarks.)	
Are Vegetation		<u>No</u> , or Hydrolog	-	gnificantly distur		Are "Normal C Yes		ces" present?	
Are Vegetation	<u>No</u> , Soil	<u>No</u> , or Hydrolog	/ <u>No</u> na	aturally problem	atic?			vers in Remarks.)	
SUMMARY OF F	INDINGS - Att	ach site map show	ng sampling	g point locati	ons, transed	cts, importa	int featur	es, etc.	
Hydrophytic Vegetati	ion Present?		Yes	No <u>X</u>					
Hydric Soil Present?			Yes	No <u>X</u>	Is the Sample	d Area Yes	s	No <u>X</u>	
Wetland Hydrology F	Present?		Yes	No <u>X</u>	within a Wetl		Upl	and	
Remarks: Sampling point is loc	ated on a forest	ed hillslope adjacent to V	Vetland 6.						
HYDROLOGY									
Wetland Hydrology	Indicators:						Second	ary Indicators (min	imum of two required)
Primary Indicators (mini	imum of one is req	uired; check all that apply)						Surface Soil Cracks	(B6)
Surface Water (A	(1)		True Aquatic P	Plants (B14)				Sparsely Vegetated	Concave Surface (B8)
High Water Table	e (A2)		Hydrogen Sulfi	de Odor (C1)				Drainage Patterns (I	B10)
Saturation (A3)		Oxidized Rhizospheres on Living Roots (C3)						Moss Trim Lines (B	16)
Water Marks (B1)		Presence of R	educed Iron (C4)				Dry-Season Water	Table (C2)
Sediment Deposi			Recent Iron Re	eduction in Tilled S	Soils (C6)			Crayfish Burrows (C	
Drift Deposits (B3			Thin Muck Sur					-	n Aerial Imagery (C9)
Algal Mat or Crus			_Other (Explain	in Remarks)				Stunted or Stressed	
Iron Deposits (B5								Geomorphic Position	
	e on Aerial Imager	/ (B7)						Shallow Aquitard (D	,
Water-Stained Le								Mircotopographic Re	
Aquatic Fauna (E	313)							FAC-Neutral Test (E	95)
Field Observations	:								
Surface Water Prese	ent? Yes	No 2	(D	epth (inches):					
Water Table Present	? Yes	No		epth (inches):		Wetla	nd Hydrold	ogy Present?	
Saturation Present? (includes capillary fri	Yes nge)	No	<u>(</u> D	epth (inches):		Yes		NoX	
Describe Recorded I	Data (stream ga	uge, monitoring well, aer	ial photos, prev	vious inspection	s), if available:				
Remarks:									

Sampling Point:	
-----------------	--

/EGETATION (Five Strata) - Use scier	ntific names of	of plants.		Sampling Point:	SP-10
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
ee Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species	
Liriodendron tulipifera	40	Y	FACU	That Are OBL, FACW, or FAC:	<u> </u>
Prunus serotina	30	Y	FACU		
Fagus grandifolia	10	Ν	FACU	Total Number of Dominant	
				Species Across All Strata:	8 (E
				Percent of Dominant Species	
				That Are OBL, FACW, or FAC:	25% (A
	80	= Total Cover			
apling Stratum: (Plot Size: 15)			Prevalence Index worksheet:	
				Total % Cover of:	Multiply by:
				OBL species x 1 =	
				FACW species x 2 =	
				FACU species x 4 =	
				Column Totals: (A)	(E
	0	= Total Cover			(-
nrub Stratum: (Plot Size: 15)			Prevalence Index = B/A =	
Lindera benzoin	/ 15	Y	FAC		
Rosa multiflora	20	Y	FACU	Hydrophytic Vegetation Indicators:	
Ailanthus altissima	10	Y	FACU	1 - Rapid Test for Hydrophytic Vegetation	n
Allantinus alussima			1400	2 - Dominance Test is >50%	
-				$3 - Prevalence Index is \leq 3.0^{1}$	
				4 - Morphological Adaptations ¹ (Provide	supporting
				data in Remarks or on a separate sh	
·				Problematic Hydrophytic Vegetation ¹ (E	(voloin)
orth Christmann (Dist size) 5	45	= Total Cover			xpiairi)
erb Stratum: (Plot size: 5 Microstegium vimineum		V	FAC		
0	20	<u> </u>	FAC	¹ Indicators of hydric soil and wetland hydrolog	gy must
	5	N	FACU	be present, unless disturbed or problematic.	
Toxicodendron radicans			FAC	Definitions of Four Vegetation Strata:	
Polystichum acrostichoides	15	<u> </u>	FACU	Tree - Woody plants, excluding vines, 3 in. (7, more in diameter at breast height (DBH), rega	
Danthonia spicata	20	<u> </u>	UPL		-
Galium aparine	5	<u>N</u>	FACU	Sapling - Woody plants, excluding woody vine (6 m) or more in height and less than 3 in. (7.6	
Parthenocissus quinquefolia	10	<u>N</u>	FACU		,
			<u> </u>	Shrub - Woody plants, excluding woody vines ft (1 to 6 m) in height.	s, aproximately 3 to
)				Herb - All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall.	
1					
2				Woody Vines - All woody vines greater than 3	3.28 ft in height.
		= Total Cover			
Voody Vine Stratum: (Plot size: 30	/				
Vitis vulpina	15	Y	FAC		
				Hydrophytic	
				Vegetation	
				Present? Yes	No <u>X</u>
		= Total Cover			

Profile Desc	cription: (Describe to t	he depth	needed to docume	nt the indi	cator or conf	irm the ab	sence of indicators.)		
Depth	Matrix			Redox Fea					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks	
0-6	10YR 3/2	100					Clay loam		
6-12	10YR 6/4	100					Clay loam		
¹ Type: C=Cor	ncentration, D=Depletion, F	M=Reduce	 ed Matrix, MS=Masked	Sand Grair			² Location: PL= Pore Lin	ing, M=Matrix.	
Hydric Soil In			,		-		Indicators for Problema		
Histosol ((A1)		Dark Surface (S7	.)			2 cm Muck (A10) (N	ILRA 147)	
Histic Epi	ipedon (A2)		Polyvalue Below	Surface (S8	B) (MLRA 147,1	48)	Coast Prairie Redox	« (A16)	
Black His	stic (A3)		Thin Dark Surfac	e (S9) (MLF	RA147, 148)		(MLRA 147, 148)		
	n Sulfide (A4)		Loamy Gleyed M				Piedmont Floodplair	n Soils (F19)	
	Layers (A5)		Depleted Matrix (,			(MLRA 136, 147)		
	ck (A10) (LRR N)		Redox Dark Surfa				Very Shallow Dark S		
	Below Dark Surface (A11)		Depleted Dark St				Other (Explain in Re	emarks)	
	rk Surface (A12)		Redox Depressio		0) (1 BB N				
	ucky Mineral (S1) (LRR N,		Iron-Manganese	Masses (F1	2) (LRR N,				
	147, 148)		MLRA 136)				3		
	leyed Matrix (S4)		Umbric Surface (-		³ Indicators of hydrophy	-	
·	edox (S5)		Piedmont Floodp			-	wetland hydrology m		
Stripped	Matrix (S6)		Red Parent Mate	nai (F21) (N	ILKA 127, 147)	unless disturbed or	problematic.	
Restrictive La	ayer (if observed):								
Type:	Rock								
Depth (in	ches): 12						Hydric Soil Present?	Yes I	No <u>X</u>
Remarks:									

Project/Site:	332-793 MA	M14 U1 Pipeline and	Waterline	City/County:	Westmorelar	nd County		Sampling Date:	July 31, 2023
Applicant/Owner:		CNX Midstrear	m Operating Corr	npany LLC		State:	PA	Sampling Point:	SP-11
Investigator(s):		ARS, API	В	Se	Section, Township, Range:			Washington	Township
Landform (hillslope, te	dform (hillslope, terrace, etc.): Floodplain			Local Re	lief (concave, cor	nvex, none):	Concave Slope (%):		Slope (%):
Subregion (LRR or M	gion (LRR or MLRA): LRR N Lat:			40.539132	Long:	-79	.553674	Datum:	NAD83
Soil Map Unit Name:		cta-Gilpin channery si	ilt loams. 25 to 75					ification:	
		the site typical for this			Yes X	No		plain in Remarks.)	
Are Vegetation		<u>No</u> , or Hydro	-	significantly distu		Are "Normal C Yes		es" present?	
Are Vegetation	<u>No</u> , Soil	<u>No</u> , or Hydro	logy <u>No</u> r	naturally problem	atic? (ers in Remarks.)	
SUMMARY OF F	INDINGS - At	tach site map sho	owing samplir	ng point locat	ions, transed	cts, importa	nt featur	es, etc.	
Hydrophytic Vegetat	ion Present?		Yes X	No					
Hydric Soil Present?			Yes X	No	Is the Sample	d Area Yes	X	No	
Wetland Hydrology F	Present?		Yes X	No	within a Wetl		Wetland	7 - PEM	
Remarks: Sampling point is loc	ated in a wetlan	d on an old logging ro	oad in a forested	hillslope. Wetlan	d is comprised o	of multiple part	s; 7A, 7B, ⁻	7C, 7D, 7E, and 7F	
HYDROLOGY									
Wetland Hydrology	Indicators:						Second	ary Indicators (mini	imum of two required)
Primary Indicators (min	imum of one is rec	uired; check all that app	bly)					Surface Soil Cracks	(B6)
Surface Water (A	(1)		True Aquatic	Plants (B14)				Sparsely Vegetated	Concave Surface (B8)
High Water Table	e (A2)		Hydrogen Su	lfide Odor (C1)				Drainage Patterns (B	310)
Saturation (A3)			X Oxidized Rhiz	cospheres on Living	g Roots (C3)			Moss Trim Lines (B1	6)
Water Marks (B1)		Presence of I	Reduced Iron (C4)				Dry-Season Water T	able (C2)
Sediment Depos	ts (B2)		Recent Iron F	Reduction in Tilled	Soils (C6)			Crayfish Burrows (C	8)
Drift Deposits (B	3)		Thin Muck Su	urface (C7)				Saturation Visible or	Aerial Imagery (C9)
Algal Mat or Crus	st (B4)		Other (Explai	n in Remarks)				Stunted or Stressed	Plants (D1)
Iron Deposits (B	5)							Geomorphic Position	n (D2)
	e on Aerial Imager	y (B7)						Shallow Aquitard (D3	3)
Water-Stained Le	eaves (B9)							Mircotopographic Re	elief (D4)
Aquatic Fauna (E	313)						X	FAC-Neutral Test (D	5)
Field Observations	:								
Surface Water Prese	ent? Yes	No	<u>х </u>	Depth (inches):					
Water Table Present	? Yes	No	<u>х </u> [Depth (inches):		Wetlar	nd Hydrolo	gy Present?	
Saturation Present? (includes capillary fri	Yes nge)	No	<u>×</u> [Depth (inches):		Yes	X	No	
Describe Recorded I	Data (stream ga	uge, monitoring well,	aerial photos, pre	evious inspection	s), if available:				
Remarks:									

Sampling Point:

Dominant Species?		Dominance Test worksheet:Number of Dominant SpeciesThat Are OBL, FACW, or FAC:3 (A)Total Number of DominantSpecies Across All Strata:3 (B)Percent of Dominant SpeciesThat Are OBL, FACW, or FAC:100% (A/B)Prevalence Index worksheet:Total % Cover of:Multiply by:OBL speciesx 1 =FACW speciesx 2 =FAC speciesx 3 =FACU speciesx 4 =UPL speciesx 5 =Column Totals:(A)(B)
Total Cover		That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species 3 (B) Percent of Dominant Species 100% (A/B) Prevalence Index worksheet: 100% (A/B) OBL species x 1 = FACW species FACW species x 3 = FACU species FACU species x 4 = UPL species UPL species x 5 =
Total Cover		Total Number of Dominant Species Across All Strata: 3 Percent of Dominant Species That Are OBL, FACW, or FAC: 100% Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species x 3 = FAC species x 3 = FACU species x 4 = UPL species x 5 =
Total Cover		Species Across All Strata: 3 (B) Percent of Dominant Species 100% (A/B) That Are OBL, FACW, or FAC: 100% (A/B) Prevalence Index worksheet: (A/B) OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 =
Total Cover		Species Across All Strata: 3 (B) Percent of Dominant Species 100% (A/B) That Are OBL, FACW, or FAC: 100% (A/B) Prevalence Index worksheet: (A/B) OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 =
Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) Prevalence Index worksheet:
Total Cover		That Are OBL, FACW, or FAC: 100% (A/B) Prevalence Index worksheet:
Total Cover		That Are OBL, FACW, or FAC: 100% (A/B) Prevalence Index worksheet:
Total Cover		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 =
		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 =
		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 =
		OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 =
		OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 =
		FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 =
		FAC species x 3 = FACU species x 4 = UPL species x 5 =
	<u> </u>	FACU species x 4 = UPL species x 5 =
		UPL species x 5 =
		· · · · · · · · · · · · · · · · · · ·
Total Cover		
Iotal Cover		Column Totals:(A)(B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		X 1 - Rapid Test for Hydrophytic Vegetation
		X 2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.0 ¹
		4 - Morphological Adaptations ¹ (Provide supporting
		data in Remarks or on a separate sheet)
Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Y	OBL	¹ Indicators of hydric soil and wetland hydrology must
N	OBL	be present, unless disturbed or problematic.
N	OBL	Definitions of Four Vegetation Strata:
N	FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
		more in diameter at breast height (DBH), regardless of height.
		Sapling - Woody plants, excluding woody vines, aproximately 20 ft
		(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
		Shrub - Woody plants, excluding woody vines, aproximately 3 to 20
		ft (1 to 6 m) in height.
·	<u> </u>	
		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.
Total Cover		
		Hydrophytic
		Vegetation
		Present? Yes X No
Total Cover		
	Total Cover Y N N N N Output Total Cover	Y OBL N OBL N OBL N FAC

-	n: (Describe to tr Matrix	ne deptn		Redox Fea		irm the abs	sence of indicators.)				
Depth (inches)		9/			Type ¹	- Toyturo	Remarks				
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc ²	Texture	Remarks			
0-8	10YR 5/1	80	10YR 5/6	20	C	PL/M	Clay				
					·						
							. <u> </u>				
	tion D-Depletion P	M-Reduce	ed Matrix, MS=Masked	Sand Grain	·		² Location: PL= Pore Li	ning M-Matrix			
Hydric Soil Indicato		INI-ILEGUCE			3.						
•	15.						Indicators for Problem	-			
Histosol (A1)	(1-2)		Dark Surface (S7			(A)	2 cm Muck (A10) (MLRA 147)				
Histic Epipedon			Polyvalue Below		-	48)	Coast Prairie Redox (A16)				
Black Histic (A3)			Thin Dark Surface		A147, 148)		(MLRA 147, 148)				
Hydrogen Sulfid	. ,		Loamy Gleyed M	. ,			Piedmont Floodplain Soils (F19)				
Stratified Layers	. ,		X Depleted Matrix (,		(MLRA 136, 147) Very Shallow Dark Surface (TF12)					
2 cm Muck (A10			Redox Dark Surfa								
	Dark Surface (A11)		Depleted Dark Su	. ,		Other (Explain in Remarks)					
Thick Dark Surfa			Redox Depressio	. ,							
	ineral (S1) (LRR N,		Iron-Manganese	Masses (F1	2) (LRR N ,						
MLRA 147, 14	-		MLRA 136)		400 400	3					
Sandy Gleyed N			Umbric Surface (I		-	³ Indicators of hydrophytic vegetation and					
Sandy Redox (S			Piedmont Floodp			wetland hydrology must be present,					
Stripped Matrix (,56)		Red Parent Mate	nai (F21) (N	LRA 127, 147)	unless disturbed or problematic.					
Destrictive Lever (if	a haam (a d).										
Restrictive Layer (if	-										
Туре:	Rock										
Depth (inches):	8						Hydric Soil Present?	Yes <u>X</u> No			
Remarks:											

Project/Site:	332-793 MA	M14 U1 Pipeline and W	/aterline	City/County:	Westmorelar	nd County	/	Sampling Da	te: July 31, 2023			
Applicant/Owner:		CNX Midstream	Operating Con	npany LLC			State: PA	Sampling Po	int: SP-12			
Investigator(s):	or(s): ARS, APB				ction, Township	p, Range:		Washing	ton Township			
Landform (hillslope, terra	andform (hillslope, terrace, etc.): Hillslope			Local Rel	ief (concave, co	nvex, none	e):	None	Slope (%):			
Subregion (LRR or ML	RA):	LRR N	Lat:	40.539151	Long:		-79.5536	16 Datu	m: NAD83			
Soil Map Unit Name:		ta-Gilpin channery silt l			0			classification:				
Are climatic/hydrologic					Yes X	No		no, explain in Remarks				
Are Vegetation		<u>No</u> , or Hydrolog	-	significantly distur				stances" present?	,			
						Y	es	<u>X No</u>				
Are Vegetation	No, Soil	<u>No</u> , or Hydrolog	gy <u>No</u> r	naturally problema	atic?	(If needed	explain any	answers in Remarks.)				
SUMMARY OF FIN	DINGS - Att	ach site man show	ving samplir	na point locati	ons transe	cts imn	ortant fe	atures etc				
Hydrophytic Vegetation			Yes	No X		••••,p						
Hydric Soil Present?	i i iesent:		Yes				Yes	No X				
Wetland Hydrology Pre	sent?		Yes	No X	Is the Sample within a Wet			Upland Upland	_			
								-				
Remarks:												
Sampling point is locat	ed on a foreste	d hillslope adjacent to	Wetland 7.									
HYDROLOGY												
Wetland Hydrology Ir	dicators:						Se	condary Indicators (minimum of two required)			
Primary Indicators (minim	um of one is requ	uired; check all that apply)						Surface Soil Cra	acks (B6)			
Surface Water (A1)	Surface Water (A1) True Aquatic Plants (B14)								Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2) Hydrogen Sulfide Odor (C1)								Drainage Patterns (B10)				
Saturation (A3)	Saturation (A3)Oxidized Rhizospheres on Living Roots (C3)								s (B16)			
Water Marks (B1)			Presence of	Reduced Iron (C4)				Dry-Season Water Table (C2)				
Sediment Deposits	(B2)		Recent Iron F	Reduction in Tilled S	Soils (C6)			Crayfish Burrow	s (C8)			
Drift Deposits (B3)			Thin Muck St					Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust	B4)		Other (Explai	n in Remarks)					ssed Plants (D1)			
Iron Deposits (B5)								Geomorphic Po				
Inundation Visible o		(B7)						Shallow Aquitar				
Water-Stained Lea								Mircotopograph	. ,			
Aquatic Fauna (B1	5)						_	FAC-Neutral Te	st (D5)			
Field Observations:												
Surface Water Presen	? Yes	No	X I	Depth (inches):								
Water Table Present?	Yes	No		Depth (inches):		w	etland Hyd	drology Present?				
Saturation Present?	Yes	No		Depth (inches):			Yes	No <u></u> X				
(includes capillary fring	-			,								
Describe Recorded Da	ta (stream gau	ge, monitoring well, ae	rial photos, pre	evious inspection:	s), if available:							
Remarks:												

· · · · · · · · · · · · · · · · · · ·	tific names of	of plants.		Sampling Point: SP-12
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1. Liriodendron tulipifera	30	Y	FACU	That Are OBL, FACW, or FAC: 4 (A)
2. Prunus serotina	10	N	FACU	
3. Fagus grandifolia	20	Y	FACU	Total Number of Dominant
4. Quercus alba	20	Y	FACU	Species Across All Strata: 9 (B)
5. Acer rubrum	10	N	FAC	
6.				Percent of Dominant Species
7.				That Are OBL, FACW, or FAC: 44% (A/B)
	90	= Total Cover		
Sapling Stratum: (Plot Size: 15)			Prevalence Index worksheet:
1	_			Total % Cover of: Multiply by:
2.				OBL species x 1 =
3.				FACW species x 2 =
4.				FAC species x 3 =
5.				FACU species x 4 =
6.				UPL species x 5 =
7				Column Totals: (A) (B)
	0	= Total Cover		(·)
Shrub Stratum: (Plot Size: 15				Prevalence Index = B/A =
1. Lindera benzoin		Y	FAC	
2 Boss multifloro	10	Y	FACU	Hydrophytic Vegetation Indicators:
3. Smilax rotundifolia	20	Y	FAC	1 - Rapid Test for Hydrophytic Vegetation
4				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 ¹
				4 - Morphological Adaptations ¹ (Provide supporting
6 7.				data in Remarks or on a separate sheet)
	45	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum: (Plot size: 5				
A Dubus ellesbanispeis		N	FACU	1
· · · · · · · ·		Y	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. Rosa multiflora		Y	FACU	Definitions of Four Vegetation Strata:
4. Agrimonia parviflora	15	Y	FACW	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5				more in diameter at breast height (DBH), regardless of height.
				Sapling - Woody plants, excluding woody vines, aproximately 20 ft
7				(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
8.				Shrub - Woody plants, excluding woody vines, aproximately 3 to 20
0				ft (1 to 6 m) in height.
9				Herb - All herbaceous (non-woody) plants, regardless
10				of size, and woody plants less than 3.28 ft tall.
11 12.				Woody Vines - All woody vines greater than 3.28 ft in height.
		= Total Cover		
Woody Vine Stratum: (Plot size: 30				
	,			
				Hydrophytic
				Vegetation Present? Yes No X
				Present? Yes <u>No X</u>
_				
5.	0	= Total Cover		

Profile Desc	ription: (Describe to t	the depth	needed to docume	nt the indi	cator or conf	irm the ab	sence of indicators.)					
Depth Matrix Redox Features												
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks				
0-2	10YR 3/2	100					Silt loam					
2-6	10YR 5/3	100					Silt loam					
2-0	101K 5/5	100										
							· ·					
							- <u> </u>					
							· ·					
							·					
¹ Type: C=Con	centration, D=Depletion, I	RM=Reduce	ed Matrix, MS=Masked	Sand Grair	ns.		² Location: PL= Pore Lin	ing, M=Matrix.				
Hydric Soil Ind	dicators:						Indicators for Problema	atic Hydric Soils ³ :				
Histosol (/			Dark Surface (S7				2 cm Muck (A10) (N					
	bedon (A2)		Polyvalue Below	•	, . .	48)		Coast Prairie Redox (A16)				
Black Hist			Thin Dark Surfac		RA147, 148)			(MLRA 147, 148)				
*	Sulfide (A4)		Loamy Gleyed M				Piedmont Floodplain Soils (F19)					
	₋ayers (A5) k (A10) (LRR N)		Depleted Matrix (Redox Dark Surf				(MLRA 136, 147) Very Shallow Dark Surface (TF12)					
	Below Dark Surface (A11))	Depleted Dark S				Other (Explain in Remarks)					
	k Surface (A12))	Redox Depressio					smanoj				
	cky Mineral (S1) (LRR N,		Iron-Manganese		12) (LRR N,							
MLRA	147, 148)		MLRA 136)									
Sandy Gle	eyed Matrix (S4)		Umbric Surface (F13) (MLR	A 136, 122)		³ Indicators of hydrophytic vegetation and					
Sandy Re	dox (S5)		Piedmont Floodp	olain Soils (F	19) (MLRA 14 8	3)	wetland hydrology must be present,					
Stripped N	/atrix (S6)		Red Parent Mate	rial (F21) (N	/LRA 127, 147)	unless disturbed or problematic.					
	yer (if observed):											
Туре:	Rock											
Depth (inc	:hes): 6						Hydric Soil Present?	Yes <u>No X</u>				
Demontor												
Remarks:												

Project/Site:	332-793 MA	M14 U1 Pip	eline and Wat	terline	City/County:	Westmoreland	County		Sampling Date:	August 1, 2023		
Applicant/Owner:		CNX Midstream Operating C			ompany LLC		State	PA	PA Sampling Point: SP-13			
Investigator(s):	ARS, APB				Se	ection, Township, I	Range:	Washington Township				
Landform (hillslope, terr	dform (hillslope, terrace, etc.): Floodpla			ain	Local Relief (concave, convex, non			Concave Slope (%):				
Subregion (LRR or ML	ubregion (LRR or MLRA): LRR N			Lat	t: 40.538209	Description Long:	-79	.555849	Datum:			
Soil Map Unit Name:	Sheloo	ta-Gilpin ch	annery silt loa	ms, 25 to	75 percent slopes			NWI clas	sification:	N/A		
Are climatic/hydrologic						Yes X	No		plain in Remarks.)			
Are Vegetation				-	significantly distu			-	ces" present?			
Are Vegetation	<u>No</u> , Soil	No_,	or Hydrology	No	_naturally problem	natic? (If	needed, expl	ain any ansv	vers in Remarks.)			
SUMMARY OF FIN	IDINGS - Att	ach site r	nap showir	ng samp	ling point locat	ions, transect	s, importa	int featur	res, etc.			
Hydrophytic Vegetatio	n Present?			Yes X	No							
Hydric Soil Present?				Yes <u>X</u>		Is the Sampled	Area Yes	x <u>x</u>	No			
Wetland Hydrology Pr	esent?			Yes X	No	within a Wetlar		Wetland	18 - PSS			
Remarks: Sampling point is loca	ted in a shrubb	y wetland lo	cated on the	floodplain	of a large perennia	ıl stream.						
HYDROLOGY												
Wetland Hydrology I	ndicators:							Second	lary Indicators (mini	mum of two required)		
Primary Indicators (minim	um of one is req	uired; check a	all that apply)						Surface Soil Cracks	(B6)		
X Surface Water (A1)			True Aqua	tic Plants (B14)				Sparsely Vegetated Concave Surface (B8)			
X High Water Table (A2) X Hydrogen Sulfide Odor (C1)									Drainage Patterns (B10)			
X Saturation (A3)			Х	Oxidized R	Rhizospheres on Livin	g Roots (C3)			Moss Trim Lines (B16)			
Water Marks (B1)				Presence	of Reduced Iron (C4)				Dry-Season Water T	able (C2)		
Sediment Deposits	Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6)									8)		
Drift Deposits (B3)				Thin Muck	Surface (C7)			Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust	(B4)			Other (Exp	plain in Remarks)				_Stunted or Stressed			
Iron Deposits (B5)									_Geomorphic Positior			
Inundation Visible		y (B7)							Shallow Aquitard (D3)			
Water-Stained Lea									Mircotopographic Relief (D4)			
Aquatic Fauna (B1	3)							X	FAC-Neutral Test (D	5)		
Field Observations:												
Surface Water Presen	t? Yes	х	No		Depth (inches):	0-0.25						
Water Table Present?	Yes	Х	No		Depth (inches):	10	Wetla	nd Hydrole	ogy Present?			
Saturation Present? (includes capillary fring	Yes ge)	Х	No		Depth (inches):	3	Yes	X	No			
Describe Recorded Da	ata (stream gai	uge, monito	ring well, aeria	al photos,	previous inspectior	ns), if available:						
Remarks:												

Sampling Point:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 3 (B)
5.				
6.				Percent of Dominant Species
7.				That Are OBL, FACW, or FAC: 100% (A/B)
	0	= Total Cover		
Sapling Stratum: (Plot Size: 15)			Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x 1 =
3				FACW species x 2 =
4				FAC species x 3 =
5				FACU species x 4 =
5				UPL species x 5 =
7				Column Totals:(A)(B)
	0	= Total Cover		
Shrub Stratum: (Plot Size: 15	_)			Prevalence Index = B/A =
1. <u>Ulmus americana</u>	60	Y	FACW	
2. Lindera benzoin	10	<u>N</u>	FAC	Hydrophytic Vegetation Indicators:
3				1 - Rapid Test for Hydrophytic Vegetation
4				X 2 - Dominance Test is >50%
5				3 - Prevalence Index is ≤3.0 ¹
6				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
7				
	70	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
	_)			
1. Glyceria striata	20	<u>Y</u>	OBL	¹ Indicators of hydric soil and wetland hydrology must
2. <u>Microstegium vimineum</u>	10	Y	FAC	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
4 5.				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
				Sapling - Woody plants, excluding woody vines, aproximately 20 ft
7				(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
				Shrub - Woody plants, excluding woody vines, aproximately 3 to 20
a				ft (1 to 6 m) in height.
10.				Herb - All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				Woody Vines - All woody vines greater than 3.28 ft in height.
		= Total Cover		
Woody Vine Stratum: (Plot size: 30				
1	-			
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
5.		= Total Cover		

Profile Desci	ription: (Describe to t	the depth	needed to documer	nt the indi	cator or cont	firm the ab	sence of indicators.)				
Depth	Matrix			Redox Fea	tures							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks				
0-6	· · · ·	100										
	2.5N/1						Sandy loam					
6-16	10YR 3/2	85	7.5YR 15	15	C	PL/M	Sandy clay loam					
		·										
		·										
¹ Type: C=Con	centration, D=Depletion, I	RM=Reduce	d Matrix. MS=Masked	Sand Grair	IS.		² Location: PL= Pore	Lining, M=Matrix.				
Hydric Soil Ind			,					lematic Hydric Soils ³ :				
Histosol (A			Dark Surface (S7)			2 cm Muck (A10	-				
Histosof (#	,		Polyvalue Below	,	B) (MLRA 147.1	148)	Coast Prairie R					
Black Hist			Thin Dark Surface		, ,	,	(MLRA 147, 14					
X Hydrogen			Loamy Gleyed M		····, ···,		-	lplain Soils (F19)				
	ayers (A5)		Depleted Matrix (. ,			(MLRA 136, 14					
	2 cm Muck (A10) (LRR N) X Redox Dark Surface (F6)					Very Shallow Dark Surface (TF12)						
Depleted I	Below Dark Surface (A11))	Depleted Dark Su	urface (F7)			Other (Explain in Remarks)					
Thick Dark	s Surface (A12)		Redox Depressio	ns (F8)								
Sandy Mu	cky Mineral (S1) (LRR N,		Iron-Manganese	Masses (F1	2) (LRR N,							
MLRA ²	147, 148)		MLRA 136)									
	eyed Matrix (S4)		Umbric Surface (-		³ Indicators of hydro	phytic vegetation and				
Sandy Re			Piedmont Floodp					gy must be present,				
Stripped N	latrix (S6)		Red Parent Mate	rial (F21) (N	ILRA 127, 147)	unless disturbe	ed or problematic.				
Postrictivo La	yer (if observed):											
Type:	yei (ii observeu).											
Depth (inc	hes):						Hydric Soil Present	? Yes X No				
Deptil (inc							Tiyane Son Tresent					
Remarks:												
Romano.												

Project/Site:	332-793 MA	M14 U1 Pipeline and W	aterline C	City/County:	Westmorelar	nd County		Sampling Date:	August 1, 2023
Applicant/Owner:		CNX Midstream	Operating Comp	any LLC		State:	PA	Sampling Point:	SP-14
Investigator(s):		ARS, APB		Se	ction, Township	, Range:		Washington	Township
Landform (hillslope, te	errace, etc.):	Flood	olain	Local Re	lief (concave, cor	nvex, none):		Convex	Slope (%):
Subregion (LRR or M	/ILRA):	LRR N	Lat:	40.538152	Long:	-79	.555866	Datum:	NAD83
Soil Map Unit Name		ta-Gilpin channery silt lo	ams. 25 to 75 r				NWI class	sification:	N/A
		the site typical for this ti			Yes X	No		plain in Remarks.)	
Are Vegetation		<u>No</u> , or Hydrolog	-	gnificantly distu		Are "Normal C			
Are Vegetation	<u>No</u> , Soil	<u>No</u> , or Hydrolog	y <u>No</u> na	turally problem	atic? (Yes (If needed, expla	X Ain any answ	No vers in Remarks.)	
SUMMARY OF F	INDINGS - Att	ach site map show	ing sampling	g point locat	ions, transed	cts, importa	nt featur	es, etc.	
Hydrophytic Vegetat	ion Present?		Yes	No <u>X</u>					
Hydric Soil Present?			Yes	No <u>X</u>	Is the Sample	d Area Yes	. <u> </u>	No <u>X</u>	
Wetland Hydrology I	Present?		Yes	No <u>X</u>	within a Wetl	and?	Upl	and	
Remarks: Sampling point is loc	ated in a shrubb	y upland located on the	floodplain of a l	arge perennial	stream, adjacer	nt to Wetlands	8 and 9.		
HYDROLOGY									
Wetland Hydrology	Indicators:						Second	ary Indicators (mini	imum of two required)
Primary Indicators (min	imum of one is req	uired; check all that apply)						Surface Soil Cracks	(B6)
Surface Water (A	41)		True Aquatic P	lants (B14)				Sparsely Vegetated	Concave Surface (B8)
High Water Tabl	e (A2)		Hydrogen Sulfic	de Odor (C1)				Drainage Patterns (B	310)
Saturation (A3)			_Oxidized Rhizo	spheres on Living	g Roots (C3)			Moss Trim Lines (B1	6)
Water Marks (B1)		Presence of Re	educed Iron (C4)				Dry-Season Water T	able (C2)
Sediment Depos	its (B2)		Recent Iron Re	duction in Tilled S	Soils (C6)			Crayfish Burrows (C	8)
Drift Deposits (B	3)		Thin Muck Surf	ace (C7)				Saturation Visible or	Aerial Imagery (C9)
Algal Mat or Cru	st (B4)	·	Other (Explain	in Remarks)				Stunted or Stressed	Plants (D1)
Iron Deposits (B								Geomorphic Position	n (D2)
	e on Aerial Imager	y (B7)						Shallow Aquitard (D3	
Water-Stained L								Mircotopographic Re	
Aquatic Fauna (313)							FAC-Neutral Test (D	95)
Field Observations	:								
Surface Water Prese	ent? Yes	No	X De	epth (inches):					
Water Table Presen	t? Yes	No	X De	epth (inches):		Wetlar	nd Hydrolo	ogy Present?	
Saturation Present? (includes capillary fri	Yes	No	X De	epth (inches):		Yes		No <u>X</u>	
		uge, monitoring well, ae	ial photos, prev	ious inspection	s), if available:				
Remarks:									

Sampling	Point:	
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	Absolute	Dominant	Indicator	Dominance Test worksheet:			
e Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species			
Acer saccharum	10	Ν	FACU	That Are OBL, FACW, or FAC:		2	(/
Tsuga canadensis	30	Y	FACU				
Ulmus americana	20	Y	FACW	Total Number of Dominant			
Fagus grandifolia	30	Y	FACU	Species Across All Strata:		7	(
				Percent of Dominant Species			
				That Are OBL, FACW, or FAC:		29%	(
	90	= Total Cove	r				
ling Stratum: (Plot Size: 15)			Prevalence Index worksheet:			
				Total % Cover of:		Multiply by:	
				OBL species	x 1 =		
				FACW species			
				FAC species			
				FACU species			
				UPL species			_
				Column Totals:	(A)		_ (
	0	= Total Cove	r				_ `
ub Stratum: (Plot Size: 15)			Prevalence Index =	B/A =		
Ulmus americana		Y	FACW				_
Quercus alba	20	<u></u> Ү	FACU	Hydrophytic Vegetation Indica	ators:		
Rosa multiflora	20	<u></u> Ү	FACU	1 - Rapid Test for Hydroph		n	
	20	<u>'</u>	TAGO	2 - Dominance Test is >50			
				3 - Prevalence Index is ≤3			
				4 - Morphological Adaptat		e supportina	
				data in Remarks or on			
		Total Cava		Problematic Hydrophytic	Vegetation ¹ (F	- 	
h Stratum: (Diat size: 5	70	= Total Cove	r	Problematic Hydrophytic	Vegetation ¹ (E	Explain)	
)						
Rosa multiflora) 10	N	FACU	¹ Indicators of hydric soil and we	etland hydrolo		
Rosa multiflora Reynoutria japonica) 10 30	<u>N</u> Y	FACU FACU	¹ Indicators of hydric soil and we be present, unless disturbed or	etland hydrolo problematic.		
Rosa multiflora Reynoutria japonica Mocrostegium vimineum) 10 30 10	N Y N	FACU FACU FAC	¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation	etland hydrolo problematic. n Strata:	gy must	
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis) 10 30 10 5	N Y N N	FACU FACU FAC FACU	¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding	etland hydrolo problematic. n Strata: vines, 3 in. (7	gy must 7.6 cm) or	ht.
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis) 10 30 10	N Y N	FACU FACU FAC	¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast height	etland hydrolo problematic. n Strata: vines, 3 in. (7 ht (DBH), rega	gy must 7.6 cm) or ardless of heigl	
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis) 10 30 10 5	N Y N N	FACU FACU FAC FACU	¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heigi Sapling - Woody plants, excluding	etland hydrolo problematic. n Strata: vines, 3 in. (7 ht (DBH), rega ing woody vir	gy must 7.6 cm) or ardless of heigi nes, aproximate	
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis) 10 30 10 5	N Y N N	FACU FACU FAC FACU	¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heig Sapling - Woody plants, exclud (6 m) or more in height and less	etland hydrolo problematic. n Strata: vines, 3 in. (7 ht (DBH), rega ing woody vin than 3 in. (7.	gy must 7.6 cm) or ardless of heig nes, aproximate 6 cm) DBH.	ely 2
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis Onoclea sensibilis	_) 	N Y N N N	FACU FACU FAC FACU	¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heigi Sapling - Woody plants, exclud (6 m) or more in height and less Shrub - Woody plants, excluding	etland hydrolo problematic. n Strata: vines, 3 in. (7 ht (DBH), rega ing woody vin than 3 in. (7.	gy must 7.6 cm) or ardless of heig nes, aproximate 6 cm) DBH.	ely 2
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis Onoclea sensibilis	_) 	N Y N N N	FACU FACU FAC FACU FACW	¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heig Sapling - Woody plants, exclud (6 m) or more in height and less Shrub - Woody plants, excludin ft (1 to 6 m) in height.	etland hydrolo problematic. n Strata: vines, 3 in. (7 ht (DBH), rega ing woody vin than 3 in. (7. g woody vine	gy must 7.6 cm) or ardless of heigl nes, aproximate 6 cm) DBH. s, aproximately	ely 2
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis Onoclea sensibilis	_) 	N Y N N N	FACU FAC FAC FACU FACW	 ¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heigi Sapling - Woody plants, excluding (6 m) or more in height and less Shrub - Woody plants, excluding ft (1 to 6 m) in height. Herb - All herbaceous (non-wood) 	etland hydrolo problematic. n Strata: vines, 3 in. (7 ht (DBH), rega ing woody vir than 3 in. (7. g woody vine bdy) plants, re	gy must 7.6 cm) or ardless of heigi nes, aproximate 6 cm) DBH. s, aproximately gardless	ely 2
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis Onoclea sensibilis	_) 	N Y N N N	FACU FAC FAC FACU FACW	 ¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heigi Sapling - Woody plants, excluding (6 m) or more in height and less Shrub - Woody plants, excluding ft (1 to 6 m) in height. Herb - All herbaceous (non-wood of size, and woody plants less the statement of th	etland hydrolo problematic. h Strata: vines, 3 in. (7 ht (DBH), rega ing woody vine than 3 in. (7. g woody vine bdy) plants, re han 3.28 ft tal	gy must .6 cm) or ardless of heigh nes, aproximate 6 cm) DBH. s, aproximately gardless l.	ely 2 y 3 1
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis Onoclea sensibilis) 10 5 5 	N Y N N N	FACU FACU FACU FACW	 ¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heigi Sapling - Woody plants, excluding (6 m) or more in height and less Shrub - Woody plants, excluding ft (1 to 6 m) in height. Herb - All herbaceous (non-wood) 	etland hydrolo problematic. h Strata: vines, 3 in. (7 ht (DBH), rega ing woody vine than 3 in. (7. g woody vine bdy) plants, re han 3.28 ft tal	gy must .6 cm) or ardless of heigh nes, aproximate 6 cm) DBH. s, aproximately gardless l.	ely : y 3
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis Onoclea sensibilis) 10 5 5 	N Y N N N	FACU FACU FACU FACW	 ¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heigi Sapling - Woody plants, excluding (6 m) or more in height and less Shrub - Woody plants, excluding ft (1 to 6 m) in height. Herb - All herbaceous (non-wood of size, and woody plants less the statement of th	etland hydrolo problematic. h Strata: vines, 3 in. (7 ht (DBH), rega ing woody vine than 3 in. (7. g woody vine bdy) plants, re han 3.28 ft tal	gy must .6 cm) or ardless of heigh nes, aproximate 6 cm) DBH. s, aproximately gardless l.	ely 2 y 3 1
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis Onoclea sensibilis Onoclea sensibilis Ody Vine Stratum: (Plot size: 30) 10 5 5 	N Y N N N = Total Cove	FACU FAC FAC FACW	 ¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heigi Sapling - Woody plants, excluding (6 m) or more in height and less Shrub - Woody plants, excluding ft (1 to 6 m) in height. Herb - All herbaceous (non-wood of size, and woody plants less the statement of th	etland hydrolo problematic. h Strata: vines, 3 in. (7 ht (DBH), rega ing woody vine than 3 in. (7. g woody vine bdy) plants, re han 3.28 ft tal	gy must .6 cm) or ardless of heigh nes, aproximate 6 cm) DBH. s, aproximately gardless l.	ely 2 y 3 1
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis Onoclea sensibilis Onoclea sensibilis Ody Vine Stratum: (Plot size: 30)) 10 5 5 	N Y N N N = Total Cove	FACU FAC FAC FACW	 ¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heigi Sapling - Woody plants, excluding (6 m) or more in height and less Shrub - Woody plants, excluding ft (1 to 6 m) in height. Herb - All herbaceous (non-wood of size, and woody plants less the statement of th	etland hydrolo problematic. h Strata: vines, 3 in. (7 ht (DBH), rega ing woody vine than 3 in. (7. g woody vine bdy) plants, re han 3.28 ft tal	gy must .6 cm) or ardless of heigh nes, aproximate 6 cm) DBH. s, aproximately gardless l.	ely 2 y 3 1
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis Onoclea sensibilis Onoclea sensibilis Ody Vine Stratum: (Plot size: 30) 10 5 5 	N Y N N N = Total Cove	FACU FAC FACU FACW	 ¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heigi Sapling - Woody plants, excluding (6 m) or more in height and less Shrub - Woody plants, excluding ft (1 to 6 m) in height. Herb - All herbaceous (non-wood of size, and woody plants less the statement of th	etland hydrolo problematic. h Strata: vines, 3 in. (7 ht (DBH), rega ing woody vine than 3 in. (7. g woody vine bdy) plants, re han 3.28 ft tal	gy must .6 cm) or ardless of heigh nes, aproximate 6 cm) DBH. s, aproximately gardless l.	ely 2 y 3 1
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis Onoclea sensibilis Onoclea sensibilis) 10 30 5 5 	N Y N N N = Total Cove	FACU FAC FACU FACW	¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heigi Sapling - Woody plants, excludin (6 m) or more in height and less Shrub - Woody plants, excludin ft (1 to 6 m) in height. Herb - All herbaceous (non-wood of size, and woody plants less th Woody Vines - All woody vines Hydrophytic Vegetation	etland hydrolo problematic. n Strata: vines, 3 in. (7 ht (DBH), rega ing woody vine than 3 in. (7. g woody vine ody) plants, re han 3.28 ft tal greater than	gy must 2.6 cm) or ardless of heigh tes, aproximate 6 cm) DBH. s, aproximately gardless I. 3.28 ft in heigh	ely 2 y 3 f
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis Onoclea sensibilis Onoclea sensibilis) 10 30 5 5 	N Y N N N = Total Cove	FACU FAC FACU FACW	¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heigi Sapling - Woody plants, excludin (6 m) or more in height and less Shrub - Woody plants, excludin ft (1 to 6 m) in height. Herb - All herbaceous (non-wood of size, and woody plants less th Woody Vines - All woody vines Hydrophytic Vegetation	etland hydrolo problematic. h Strata: vines, 3 in. (7 ht (DBH), rega ing woody vine than 3 in. (7. g woody vine bdy) plants, re han 3.28 ft tal	gy must .6 cm) or ardless of heigh nes, aproximate 6 cm) DBH. s, aproximately gardless l.	ely 2 y 3 f
Rosa multiflora Reynoutria japonica Mocrostegium vimineum Rubus allegheniensis Onoclea sensibilis Onoclea sensibilis Sody Vine Stratum: (Plot size: 30) 10 30 5 5 	N Y N N N = Total Cove	FACU FAC FAC FACU FACW	¹ Indicators of hydric soil and we be present, unless disturbed or Definitions of Four Vegetation Tree - Woody plants, excluding more in diameter at breast heigi Sapling - Woody plants, excludin (6 m) or more in height and less Shrub - Woody plants, excludin ft (1 to 6 m) in height. Herb - All herbaceous (non-wood of size, and woody plants less th Woody Vines - All woody vines Hydrophytic Vegetation	etland hydrolo problematic. n Strata: vines, 3 in. (7 ht (DBH), rega ing woody vine than 3 in. (7. g woody vine ody) plants, re han 3.28 ft tal greater than	gy must 2.6 cm) or ardless of heigh tes, aproximate 6 cm) DBH. s, aproximately gardless I. 3.28 ft in heigh	ely 2 y 3 t nt.

Depth (inches)	Matrix			Redox Fea	luies			
<u> </u>	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0.16			× /					
0-16	7.5YR 5/3	100			<u> </u>		Sandy loam	
					<u> </u>			
<u> </u>								
					· ·			
							· ·	
					<u> </u>			
pe: C=Conc	entration, D=Depletion,	RM=Reduce	d Matrix, MS=Masked	Sand Grain	IS.		² Location: PL= Pore Li	ning, M=Matrix.
dric Soil Indi	icators:						Indicators for Problem	natic Hydric Soils ³ :
Histosol (A	1)	-	Dark Surface (S7	.)			2 cm Muck (A10) (MLRA 147)
Histic Epipe	edon (A2)	_	Polyvalue Below	Surface (S8	3) (MLRA 147,1	48)	Coast Prairie Redo	ox (A16)
Black Histic	: (A3)	-	Thin Dark Surfac	e (S9) (MLR	RA147, 148)		(MLRA 147, 148)	
Hydrogen S	Sulfide (A4)	-	Loamy Gleyed M	atrix (F2)			Piedmont Floodpla	in Soils (F19)
Stratified La		-	Depleted Matrix (F3)			(MLRA 136, 147)	
-	(A10) (LRR N)	-	Redox Dark Surf				Very Shallow Dark	
	elow Dark Surface (A11) -	Depleted Dark St				Other (Explain in R	Remarks)
	Surface (A12)	-	Redox Depressio					
-	ky Mineral (S1) (LRR N	' -	Iron-Manganese	Masses (F1	2) (LRR N,			
MLRA 14	-		MLRA 136)		126 122)		3 and an entry of hundren h	
_	ved Matrix (S4)	-	Umbric Surface (-		³ Indicators of hydroph	
Sandy Red Stripped Ma		-	Piedmont Floodp Red Parent Mate				wetland hydrology r unless disturbed o	
		-			ERA 121, 141)			
strictive Lav	er (if observed):							
Туре:	(,							
Depth (inch	les).						Hydric Soil Present?	Yes No X
Doput (inon								
marks:								
lidiks.								

Project/Site:	332-793 MAN	/14 U1 Pipeline and Wa	terline	City/County:	Westmoreland Co	ounty		Sampling Date:	August 1, 2023
Applicant/Owner:		CNX Midstream O	perating Cor	mpany LLC		State:	PA	Sampling Point:	SP-15
Investigator(s):		ARS, APB		Se	ction, Township, Ra	inge:		Washington	Township
Landform (hillslope, ter	race, etc.):	Floodpl	ain	Local Re	lief (concave, convex,	none):	C	Concave	Slope (%):
Subregion (LRR or M	_RA):	LRR N	Lat:	40.537810	Long:	-79.5	56194		
Soil Map Unit Name:	-	a-Gilpin channery silt loa	ams. 25 to 7					fication:	
		he site typical for this tim						blain in Remarks.)	
Are Vegetation		<u>No</u> , or Hydrology	-	significantly distu				es" present?	
Are Vegetation	<u>No</u> , Soil	No, or Hydrology	No	naturally problem	atic? (If ne	eded, explain	any answe	ers in Remarks.)	
SUMMARY OF FI	NDINGS - Att	ach site map showi	ng sampli	ng point locat	ions, transects,	importan	t feature	es, etc.	
Hydrophytic Vegetatic	on Present?		Yes X	No					
Hydric Soil Present?			Yes X	No	Is the Sampled Are	ea Yes	х	No	
Wetland Hydrology Pr	esent?		Yes X		within a Wetland		Wetland	9 - PEM	
Sampling point is loca	ted in a wetland	on a vegetated island ir	the center	of a large perenn	al stream.				
HYDROLOGY									
Wetland Hydrology I	ndicators:						Seconda	ary Indicators (mini	mum of two required)
Primary Indicators (minin	num of one is requ	ired; check all that apply)						Surface Soil Cracks	(B6)
Surface Water (A1)		True Aquatio	Plants (B14)				Sparsely Vegetated	Concave Surface (B8)
High Water Table	(A2)	X	Hydrogen Su	ulfide Odor (C1)				Drainage Patterns (B	:10)
Saturation (A3)		X	Oxidized Rh	izospheres on Livin	g Roots (C3)			Moss Trim Lines (B1	6)
Water Marks (B1)			Presence of	Reduced Iron (C4)				Dry-Season Water Ta	able (C2)
Sediment Deposits	s (B2)		Recent Iron	Reduction in Tilled	Soils (C6)			Crayfish Burrows (C8	3)
Drift Deposits (B3)			Thin Muck S	Surface (C7)				Saturation Visible on	Aerial Imagery (C9)
Algal Mat or Crust	(B4)		Other (Expla	in in Remarks)				Stunted or Stressed	Plants (D1)
Iron Deposits (B5)							X	Geomorphic Position	(D2)
Inundation Visible	on Aerial Imagery	(B7)						Shallow Aquitard (D3	3)
Water-Stained Lea	aves (B9)							Mircotopographic Re	lief (D4)
Aquatic Fauna (B1	3)						<u> </u>	FAC-Neutral Test (D	5)
Field Observations:									
Surface Water Preser	nt? Yes	No X		Depth (inches):					
Water Table Present?	Yes	No X		Depth (inches):		Wetland	Hydrolo	gy Present?	
Saturation Present? (includes capillary frin	Yes _ ge)	No <u>X</u>		Depth (inches):		Yes _	Х	No	
Describe Recorded D	ata (stream gau	ge, monitoring well, aeria	al photos, pr	evious inspection	s), if available:				
Remarks:									

Sampling Point:

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species		
1.		000000		That Are OBL, FACW, or FAC:	2	(A)
					_	_(())
				Total Number of Dominant		
4				Species Across All Strata:	2	(B)
						_(=)
				Percent of Dominant Species		
7				That Are OBL, FACW, or FAC:	100%	(A/B)
		= Total Cover				
Sapling Stratum: (Plot Size: 15	-			Prevalence Index worksheet:		
	-			Total % Cover of:	Multiply by:	
2.				OBL species x 1 =	manapiy by:	_
o				· · · · · · · · · · · · · · · · · · ·		_
4				FAC species x 3 =		_
-						
8				UPL species x 5 =		_
_				Column Totals: (A)		(B)
<i>.</i>	0	= Total Cover				_(D)
Shrub Stratum: (Plot Size: 15				Prevalence Index = B/A =		
	_					_
n				Hydrophytic Vegetation Indicators:		
				1 - Rapid Test for Hydrophytic Veget	ation	
				X 2 - Dominance Test is >50%		
				$3 - Prevalence Index is \leq 3.0^1$		
				4 - Morphological Adaptations ¹ (Prov	ride supporting	
6 7.				data in Remarks or on a separate		
	0	= Total Cover		Problematic Hydrophytic Vegetation	¹ (Explain)	
Herb Stratum: (Plot size: 5)				(I)	
1. Scirpus atrovirens		Y	OBL	1 to direct one of bould's and to other direct bould		
2. Microstegium vimineum	10	N	FAC	¹ Indicators of hydric soil and wetland hydr be present, unless disturbed or problemati		
3. Amphicarpaea bracteata	20	Y	FAC	Definitions of Four Vegetation Strata:		
4. Galium aparine	5	N	FACU	Tree - Woody plants, excluding vines, 3 in	(7.6 cm) or	
5. Leersia oryzoides	10	N	OBL	more in diameter at breast height (DBH), r		ht.
6. Viola sororia	5	N	FAC	Sapling - Woody plants, excluding woody	vines aproximate	elv 20 ft
7. Symphyotrichum lateriflorum	10	N	FACW	(6 m) or more in height and less than 3 in.		
8. <i>Carex</i> sp.	10	N	-	Shrub - Woody plants, excluding woody v	ines aproximately	/ 3 to 20
9.				ft (1 to 6 m) in height.		
10				Herb - All herbaceous (non-woody) plants,	regardless	
11				of size, and woody plants less than 3.28 ft		
12.				Woody Vines - All woody vines greater the	an 3.28 ft in heigh	ıt.
		= Total Cover		······································		
Woody Vine Stratum: (Plot size: 30		- 10101 00101				
a						
				Hydrophytic		
				Vegetation Present? Yes X	No	
4						
4 5						
4 5	0	= Total Cover				

Profile Description: (Describe to	the depth				irm the ab	sence of indicators.)			
Depth <u>Matrix</u>			Redox Fea		Loc ²				
(inches) Color (moist)	%	Color (moist)	%	Type ¹	LOC	Texture	Remarks		
0-16 10YR 3/1	80	7.5YR 5/6	20	C	PL/M	Clay loam			
Type: C=Concentration, D=Depletion		d Matrix MS-Masked	Sand Grain			² Location: PL= Pore L	ining M-Matrix		
			Sanu Grai	5.					
Hydric Soil Indicators:						Indicators for Probler	-		
Histosol (A1)		Dark Surface (S7				2 cm Muck (A10)			
Histic Epipedon (A2)		Polyvalue Below			48)	Coast Prairie Red			
Black Histic (A3)		Thin Dark Surface		(A147, 148)		(MLRA 147, 148)			
X Hydrogen Sulfide (A4)		Loamy Gleyed Ma				Piedmont Floodpl			
Stratified Layers (A5)		Depleted Matrix ((MLRA 136, 147)			
2 cm Muck (A10) (LRR N)	1)	X Redox Dark Surfa	. ,			Very Shallow Dark			
Depleted Below Dark Surface (A1 Thick Dark Surface (A12)	1)	Depleted Dark Su Redox Depressio				Other (Explain in I	Remarks		
Sandy Mucky Mineral (S1) (LRR)	J	Iron-Manganese	. ,	2) (I RR N					
MLRA 147, 148)	•,	MLRA 136)	111110000 (1 1	2) (2)(1)					
Sandy Gleyed Matrix (S4)		Umbric Surface (I	F13) (MLRA	136, 122)		³ Indicators of hydroph	avtic vegetation and		
Sandy Redox (S5)		Piedmont Floodp		-	B)				
Stripped Matrix (S6)		Red Parent Mate			-	wetland hydrology must be present, unless disturbed or problematic.			
Restrictive Layer (if observed):									
Туре:									
Depth (inches):						Hydric Soil Present?	Yes X No		
							···· <u>···</u> ··· <u>··</u> ·		
Remarks:									
i contanto.									

Project/Site: 33	2-793 MAM14 U1 Pipeline and Wa	aterline City/County:	Westmoreland County		Sampling Date:	August 1, 2023
Applicant/Owner:	CNX Midstream C	perating Company LLC	Sta	ite: PA	Sampling Point:	SP-16
Investigator(s):	ARS, APB	S	ection, Township, Range:		Washington	Township
Landform (hillslope, terrace, e	tc.): Depres	sion Local Re	elief (concave, convex, none):		Concave	Slope (%):
Subregion (LRR or MLRA):	LRR N	Lat: 40.53831	2 Long: -	79.558147	Datum:	NAD83
Soil Map Unit Name:	Shelocta-Gilpin channery silt lo				sification:	N/A
	ditions on the site typical for this tir		Yes X No		xplain in Remarks.)	
	, Soil <u>No</u> , or Hydrolog	-		I Circumstan	ces" present?	
Are Vegetation No	_, Soil <u>No</u> , or Hydrolog	y <u>No</u> naturally problen		-	vers in Remarks.)	
SUMMARY OF FINDIN	GS - Attach site map show	ing sampling point loca	tions, transects, impo	rtant featui	res, etc.	
Hydrophytic Vegetation Pre	sent?	Yes X No				
Hydric Soil Present?		Yes X No	Is the Sampled Area	′es X	No	
Wetland Hydrology Presen	?	Yes X No	within a Wetland?	Wetland	10 - PEM	
Remarks: Sampling point is located w	ithin a depressional wetland on ar	n old logging road, surrounded	by forested hillslopes.			
HYDROLOGY						
Wetland Hydrology Indica	tors:			Second	dary Indicators (mini	imum of two required)
Primary Indicators (minimum o	one is required; check all that apply)				_Surface Soil Cracks	(B6)
X Surface Water (A1)		True Aquatic Plants (B14)			_Sparsely Vegetated	Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odor (C1)			Drainage Patterns (B	310)
Saturation (A3)	<u> </u>	_Oxidized Rhizospheres on Livir	g Roots (C3)		_Moss Trim Lines (B1	16)
Water Marks (B1)		Presence of Reduced Iron (C4)			Dry-Season Water T	able (C2)
Sediment Deposits (B2)		Recent Iron Reduction in Tilled	Soils (C6)		Crayfish Burrows (C	8)
Drift Deposits (B3)		Thin Muck Surface (C7)			Saturation Visible or	Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Remarks)			Stunted or Stressed	Plants (D1)
Iron Deposits (B5)					Geomorphic Position	ו (D2)
Inundation Visible on Ae	rial Imagery (B7)				Shallow Aquitard (D3	3)
Water-Stained Leaves (I	39)				_Mircotopographic Re	elief (D4)
Aquatic Fauna (B13)				X	FAC-Neutral Test (D	95)
Field Observations:						
Surface Water Present?	Yes X No	Depth (inches):	0-2			
Water Table Present?		X Depth (inches):		and Hydrol	ogy Present?	
Saturation Present?	Yes No			es X		
(includes capillary fringe)		<u> </u>				
Describe Recorded Data (s	tream gauge, monitoring well, aer	ial photos, previous inspection	ns), if available:			
Remarks:						

Sampling Point:

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
ee Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species	
				That Are OBL, FACW, or FAC:	2
		·······		Total Number of Dominant	
				Species Across All Strata:	2
				Percent of Dominant Species	
				That Are OBL, FACW, or FAC:	100%
		= Total Cove		marrie obe, r how, or ho.	10078
oling Stratum: (Plot Size: 15			I	Prevalence Index worksheet:	
	_			Total % Cover of:	Multiply by:
					1 =
					2 =
					3 =
					4 =
					5 =
				Column Totals: (A)	
rub Stratum: (Plot Size: 15	-	= Total Cover		Prevalence Index = B/A =	
				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic V	egetation
				X 2 - Dominance Test is >50%	•
				3 - Prevalence Index is ≤3.0 ¹	
				4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a sepa	arate sheet)
	0	= Total Cove		Problematic Hydrophytic Vegeta	ation ¹ (Explain)
rb Stratum: (Plot size: 5			I		
Boehmeria cylindrica		N	FACW	1	
Microstegium vimineum	20	<u> </u>	FAC	¹ Indicators of hydric soil and wetland be present, unless disturbed or proble	
Rumex crispus	5	 N	FAC	Definitions of Four Vegetation Strat	
Scirpus atrovirens	5	<u> </u>	OBL	Tree - Woody plants, excluding vines,	
	20	 Y	FACW	more in diameter at breast height (DB	
Persicaria maculosa					
Pilea pumila	10	<u> </u>	FACW	Sapling - Woody plants, excluding wo (6 m) or more in height and less than 3	
Leersia oryzoides	10	N	OBL		
			·	Shrub - Woody plants, excluding woo ft (1 to 6 m) in height.	dy vines, aproximately
				(, j	
·				Herb - All herbaceous (non-woody) pla of size, and woody plants less than 3.2	
				Woody Vines - All woody vines greate	er than 3.28 ft in height
	80	= Total Cove	r		
oody Vine Stratum: (Plot size: 30	-				
				Hydrophytic	
				Vegetation	
				Present? Yes	XNo
		= Total Cover			

Profile Desc	iption: (Describe to t	he depth				irm the ab	sence of indicators.)					
Depth	Matrix			Redox Fea	tures		-					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks				
0-6	10YR 4/1	75	7.5YR 4/6	25	С	PL/M	Clay loam					
		· ·										
<u> </u>		· ·										
		· ·										
		· ·					<u> </u>					
		· ·										
¹ Type: C=Con	centration, D=Depletion, F	RM=Reduce	d Matrix, MS=Masked	Sand Grair	IS.		² Location: PL= Pore I	_ining, M=Matrix.				
Hydric Soil Ind	licators:						Indicators for Proble	matic Hydric Soils ³ :				
Histosol (A	(1)		Dark Surface (S7				2 cm Muck (A10)	(MLRA 147)				
Histic Epip	edon (A2)		Polyvalue Below			48)	Coast Prairie Ree	dox (A16)				
Black Hist			Thin Dark Surface		RA147, 148)		(MLRA 147, 148					
	Sulfide (A4)		Loamy Gleyed M				Piedmont Floodp					
	.ayers (A5) < (A10) (LRR N)		X Depleted Matrix ((MLRA 136, 147					
	Below Dark Surface (A11)		Redox Dark Surfa				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)					
·	Surface (A12)		Redox Depressio					Remarksy				
	cky Mineral (S1) (LRR N,		Iron-Manganese		2) (LRR N,							
MLRA	147, 148)		MLRA 136)									
Sandy Gle	eyed Matrix (S4)		Umbric Surface (I	=13) (MLR A	A 136, 122)		³ Indicators of hydrop	hytic vegetation and				
Sandy Re	dox (S5)		Piedmont Floodp	ain Soils (F	19) (MLRA 14 8	3)	wetland hydrology	must be present,				
Stripped N	latrix (S6)		Red Parent Mate	rial (F21) (N	ILRA 127, 147)	unless disturbed or problematic.					
Restrictive La	yer (if observed):											
Type:	Rock											
Depth (inc							Hydric Soil Present?	Yes X No				
Doput (inc												
Remarks:												

Project/Site:	332-793 MAN	114 U1 Pipeline and W	/aterline	City/County:	Westmorelar	nd Count	ty		Sampling Date:	August 1, 2023
Applicant/Owner:		CNX Midstream	Operating Corr	npany LLC			State:	PA	Sampling Point:	SP-17
Investigator(s):		ARS, APB		Se	ction, Township	p, Range	:		Washington	Township
Landform (hillslope, terra	.ce, etc.):	Terra	ace	Local Rel	lief (concave, co	nvex, non	ie):		None	Slope (%):
Subregion (LRR or ML	- جA):	LRR N	Lat:	40.538348	Long:		-79.5	58107	Datum:	NAD83
Soil Map Unit Name:	-	ta-Gilpin channery silt l	oams, 25 to 75	percent slopes					sification:	
Are climatic/hydrologic				1	Yes X	No			plain in Remarks.)	
		<u>No</u> , or Hydrolog	-	significantly distur					ces" present?	
<u> </u>	^	,		<u> </u>			res	х		
Are Vegetation	<u>No</u> , Soil _	<u>No</u> , or Hydrolog	gy <u>No</u> r	naturally problema	atic?	(If needed	d, explain	any answ	vers in Remarks.)	
SUMMARY OF FIN		ach site man show	vina samplir	na noint locati	ons transe	cte imi	nortan	t faatur	es etc	
Hydrophytic Vegetation			Yes	No X			portain	lioutui		
Hydric Soil Present?	r resent:		Yes				Yes		No X	
Wetland Hydrology Pre	sent?		Yes	No X	Is the Sample within a Wet			Upl	and	
				·				1		
Remarks:										
Sampling point is locat	ed on a shrubb	y hillslope, adjacent to	Wetland 10.							
HYDROLOGY										
Wetland Hydrology In	dicators:							Second	ary Indicators (min	imum of two required)
Primary Indicators (minim	im of one is requ	ired; check all that apply)							Surface Soil Cracks	(B6)
Surface Water (A1)			True Aquatic	Plants (B14)					Sparsely Vegetated	Concave Surface (B8)
High Water Table (42)		Hydrogen Su	lfide Odor (C1)					Drainage Patterns (B10)
Saturation (A3)			Oxidized Rhiz	cospheres on Living	Roots (C3)				Moss Trim Lines (B1	16)
Water Marks (B1)			Presence of I	Reduced Iron (C4)					Dry-Season Water 1	Table (C2)
Sediment Deposits	(B2)		Recent Iron F	Reduction in Tilled S	Soils (C6)				Crayfish Burrows (C	8)
Drift Deposits (B3)			Thin Muck Su						-	n Aerial Imagery (C9)
Algal Mat or Crust (34)		Other (Explai	n in Remarks)					Stunted or Stressed	
Iron Deposits (B5)									Geomorphic Position	
Inundation Visible c		(B7)							Shallow Aquitard (D	
Water-Stained Leav									Mircotopographic Re	. ,
Aquatic Fauna (B13)								FAC-Neutral Test (D	05)
Field Observations:										
Surface Water Present	? Yes	No	X I	Depth (inches):						
Water Table Present?	Yes	No		Depth (inches):		v	Netland	Hydrold	ogy Present?	
Saturation Present?	Yes	No		Depth (inches):			Yes		No <u>X</u>	
(includes capillary fring	-			,						
Describe Recorded Da	ta (stream gau	ge, monitoring well, ae	erial photos, pre	evious inspection:	s), if available:					
Remarks:										

Sampling Point:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Free Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
<u>100 Ollatani</u> (Flot 0120. <u>00</u>)	<u></u>	000000		That Are OBL, FACW, or FAC: 1 (A)
· · · · · · · · · · · · · · · · · · ·		<u> </u>	·	
····				Total Number of Dominant
·····				Species Across All Strata: 4 (B)
·		·		(=)
· · · · · · · · · · · · · · · · · · ·				Percent of Dominant Species
· · · · · · · · · · · · · · · · · · ·				That Are OBL, FACW, or FAC: 25% (A/B)
	0	= Total Cove		(*_)
Sapling Stratum: (Plot Size: 15)			Prevalence Index worksheet:
. (Fiot 0.20	/			Total % Cover of: Multiply by:
		<u> </u>	·	OBL species x 1 =
				FACW species x 2 =
·		<u> </u>	·	FAC species x 3 =
·		<u> </u>	·	FACU species x 4 =
· · · · · · · · · · · · · · · · · · ·		<u> </u>	·	UPL species X 5 =
,	· · ·	·		Column Totals: (A) (B)
	0	= Total Cove		
Shrub Stratum: (Plot Size: 15			1	Prevalence Index = B/A =
. Rosa multiflora		Y	FACU	
2. Lindera benzoin	15	Y	FAC	Hydrophytic Vegetation Indicators:
	10	I	170	1 - Rapid Test for Hydrophytic Vegetation
 !.				2 - Dominance Test is >50%
·				$3 - Prevalence Index is \leq 3.0^{1}$
				4 - Morphological Adaptations ¹ (Provide supporting
,		·		data in Remarks or on a separate sheet)
·	25	Tatal Cause		Problematic Hydrophytic Vegetation ¹ (Explain)
Jorh Stratum: (Diat aiza) E	35	= Total Cove	r	
Herb Stratum: (Plot size: 5	-	V	FACU	
. Reynoutria japonica	20	<u> </u>	FACU	¹ Indicators of hydric soil and wetland hydrology must
	15	<u> </u>	FACU	be present, unless disturbed or problematic.
	30			Definitions of Four Vegetation Strata:
Toxicodendron radicans	10	<u> </u>	FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
6. <u>Microstegium vimineum</u>	10	<u>N</u>	FAC	
). 				Sapling - Woody plants, excluding woody vines, aproximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
·				
				Shrub - Woody plants, excluding woody vines, aproximately 3 to 20 ft (1 to 6 m) in height.
		<u> </u>		
0				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1				
2				Woody Vines - All woody vines greater than 3.28 ft in height.
	85	= Total Cove	r	
Voody Vine Stratum: (Plot size: 30	-			
				Hydrophytic
				Vegetation
				Present? Yes No X
l				
		= Total Cove		

Profile Desc	ription: (Describe to t	the depth	needed to docume	nt the indi	cator or confi	irm the ab	sence of indicators.)	
Depth	Matrix			Redox Fea	itures		-	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 4/2	100					Clay loam	
6-10	10YR 5/3	100					Clay loam	
							- <u> </u>	
							·	
							<u> </u>	
;					·		- <u> </u>	
¹ Tumer C. Com	D Depletion I		d Matrix MC Maalead				² Location: PL= Pore Li	ning M. Matrix
Hydric Soil In	icentration, D=Depletion, I	KIN=Reduce		Sanu Grai	15.		Indicators for Problem	
			Dark Curfage (C7	7)				•
Histosol (Histic Eni	pedon (A2)		Dark Surface (S7 Polyvalue Below		3) (MI RA 147 1	48)	2 cm Muck (A10) (Coast Prairie Redo	
Black Hist			Thin Dark Surfac	,	, .		(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleyed M				Piedmont Floodpla	
Stratified	Layers (A5)		Depleted Matrix (F3)			(MLRA 136, 147)	
2 cm Muc	ck (A10) (LRR N)		Redox Dark Surfa	ace (F6)			Very Shallow Dark	Surface (TF12)
Depleted	Below Dark Surface (A11)	Depleted Dark St	urface (F7)			Other (Explain in R	Remarks)
	k Surface (A12)		Redox Depressio					
	ucky Mineral (S1) (LRR N,		Iron-Manganese	Masses (F1	12) (LRR N,			
	147, 148) eyed Matrix (S4)		MLRA 136) Umbric Surface (E13) (MI P	136 122)		³ Indicators of hydroph	vtic vogetation and
Sandy Gi			Piedmont Floodp		-	3	wetland hydrology r	
	Matrix (S6)		Red Parent Mate			-	unless disturbed of	
	、							
Restrictive La	ayer (if observed):							
Type:	Rock							
Depth (ind	ches): 10						Hydric Soil Present?	Yes <u>No X</u>
Remarks:								

Project/Site: 332-793 MAM14 L	J1 Pipeline and Waterline	City/County:	Westmoreland Co	unty	Sampling Date:	August 1, 2023
Applicant/Owner:	CNX Midstream Operating Com	npany LLC		State: PA	Sampling Point:	SP-18
Investigator(s):	ARS, APB	Secti	on, Township, Rar	ige:	Washington	Township
Landform (hillslope, terrace, etc.):	Depression	Local Relief	(concave, convex,	none):	Concave	Slope (%):
Subregion (LRR or MLRA):	LRR N Lat:	40.536079	Long:	-79.56526	0 Datum:	NAD83
Soil Map Unit Name: Gilpin chann	ery silt loam, 15 to 25 percent sl	opes			lassification:	N/A
Are climatic/hydrologic conditions on the si			Yes X N		o, explain in Remarks.)	
	b, or Hydrology <u>No</u> s			Normal Circumst	ances" present?	
Are Vegetation <u>No</u> , Soil <u>No</u>	o, or HydrologyNon	naturally problemati	c? (If nee		inswers in Remarks.)	
SUMMARY OF FINDINGS - Attach	site map showing samplin	ng point location	ns, transects, i	mportant fea	tures, etc.	
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?	Yes X	No Is	the Sampled Are	a Yes 🗡	(No	
Wetland Hydrology Present?	Yes <u>X</u>		within a Wetland?		and 11 - PEM	
Remarks:		• •				
Sampling point is located within a depressi	onal wetland on an old logging r	and surrounded by	forested billslope			
		bad, sunounded by	Torested milliope			
HYDROLOGY						
Wetland Hydrology Indicators:				Sec	ondary Indicators (min	imum of two required)
Primary Indicators (minimum of one is required;	check all that apply)				Surface Soil Cracks	(B6)
X Surface Water (A1)	True Aquatic	Plants (B14)				Concave Surface (B8)
High Water Table (A2)	Hydrogen Sul	fide Odor (C1)			Drainage Patterns (B10)
Saturation (A3)	X Oxidized Rhiz	cospheres on Living R	oots (C3)		Moss Trim Lines (B	16)
Water Marks (B1)	Presence of F	Reduced Iron (C4)			Dry-Season Water	Table (C2)
Sediment Deposits (B2)	Recent Iron R	Reduction in Tilled Soi	s (C6)		Crayfish Burrows (C	:8)
Drift Deposits (B3)	Thin Muck Su	Irface (C7)			Saturation Visible or	n Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain	n in Remarks)			Stunted or Stressed	l Plants (D1)
Iron Deposits (B5)					Geomorphic Positio	
Inundation Visible on Aerial Imagery (B7)					Shallow Aquitard (D	3)
Water-Stained Leaves (B9)					Mircotopographic R	elief (D4)
Aquatic Fauna (B13)				>	FAC-Neutral Test (
Field Observations:						
Surface Water Present? Yes X	No E	Depth (inches):	0-3			
Water Table Present? Yes		Depth (inches):	0-3	Wetland Hvd	rology Present?	
		Depth (inches):		-	••	
(includes capillary fringe)	No <u>X</u> E	Deptri (inches).		Yes <u>></u>	(No	
Describe Recorded Data (stream gauge, m	nonitoring well, aerial photos, pre	evious inspections),	if available:			
Remarks:						

		of plants.		Sampling Point:	SP-18
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
ee Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species	
<u> </u>					2 (A)
	·				(**)
				Total Number of Dominant	
					2 (B)
					<u> </u>
				Persont of Deminent Species	
	· . <u></u>			Percent of Dominant Species	00/ (A/E
				That Are OBL, FACW, or FAC: 10	<u>0%</u> (A/B
		= Total Cover		Prevalence Index worksheet:	
apling Stratum: (Plot Size: 15)				
	·				bly 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)
	0	= Total Cover			
rub Stratum: (Plot Size: 15				Prevalence Index = B/A =	
				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
				X 2 - Dominance Test is >50%	
				3 - Prevalence Index is ≤3.0 ¹	
				4 - Morphological Adaptations ¹ (Provide suppo	orting
	·			data in Remarks or on a separate sheet)	
	0	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain))
erb Stratum: (Plot size: 5					
,		Y	OBL		
		<u></u>	FAC	¹ Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	st
Correy underingidee	10		OBL	Definitions of Four Vegetation Strata:	
Juncus tenuis	5		FAC	-	
	5		FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless	
Juncus effusus					-
Scirpus atrovirens		<u> </u>	OBL	Sapling - Woody plants, excluding woody vines, apl (6 m) or more in height and less than 3 in. (7.6 cm) I	
Solidago gigantea	5	N	FACW		
	·	<u> </u>	<u> </u>	Shrub - Woody plants, excluding woody vines, apro ft (1 to 6 m) in height.	ximately 3 to 2
)				Herb - All herbaceous (non-woody) plants, regardles	SS
·				of size, and woody plants less than 3.28 ft tall.	
	·			Woody Vines - All woody vines greater than 3.28 ft	in height.
	80	= Total Cover			
oody Vine Stratum: (Plot size: 30)				
	. <u></u>				
				the decord of the	
				Hydrophytic Vegetation	
				-	No
	0	= Total Cover			

Profile Desc	iption: (Describe to t	the depth i				irm the ab	sence of indicators.)				
Depth	Matrix			Redox Fea	tures		-				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-6	10YR 5/1	70	10YR 5/6	30	С	PL/M	Clay				
<u> </u>					······						
		· ·									
<u> </u>											
		·					·				
¹ Type: C=Con	centration, D=Depletion, I	RM=Reduce	d Matrix, MS=Masked	Sand Grain	s.		² Location: PL= Pore L	ining, M=Matrix.			
Hydric Soil Ind	licators:						Indicators for Proble	matic Hydric Soils ³ :			
Histosol (A	(1)		Dark Surface (S7)			2 cm Muck (A10)	(MLRA 147)			
Histic Epip	edon (A2)		Polyvalue Below	Surface (S8) (MLRA 147,1	48)	Coast Prairie Rec	dox (A16)			
Black Hist	ic (A3)		Thin Dark Surface	e (S9) (MLR	A147, 148)		(MLRA 147, 148	3)			
Hydrogen	Sulfide (A4)		Loamy Gleyed Ma	atrix (F2)			Piedmont Floodp	lain Soils (F19)			
Stratified I	ayers (A5)		X Depleted Matrix (=3)			(MLRA 136, 147)			
2 cm Muc	k (A10) (LRR N)	-	Redox Dark Surfa	ace (F6)			Very Shallow Dar	k Surface (TF12)			
Depleted	Below Dark Surface (A11) .	Depleted Dark Su	Irface (F7)			Other (Explain in	Remarks)			
	Surface (A12)	-	Redox Depressio								
	cky Mineral (S1) (LRR N,		Iron-Manganese	Masses (F1	2) (LRR N,						
	147, 148)		MLRA 136)				2				
	yed Matrix (S4)	-	Umbric Surface (I		-		³ Indicators of hydrophytic vegetation and				
Sandy Re		-	Piedmont Floodp				wetland hydrology				
Stripped N	iatrix (56)	•	Red Parent Mate	nai (F21) (N	ILRA 127, 147)	unless disturbed	or problematic.			
Restrictive La	yer (if observed):										
Type:	Rock										
Depth (inc		<u> </u>					Hydric Soil Present?	Yes X No			
Doput (inc											
Remarks:											

Project/Site:	332-793 MA	M14 U1 Pipeline and W	aterline City	/County:	Westmorelan	d County		Sampling Date:	August 1, 2023
Applicant/Owner:		CNX Midstream 0	Operating Company	y LLC		State:	PA	Sampling Point:	SP-19
Investigator(s):		ARS, APB		Sect	ion, Township	, Range:		Washington 1	ownship
Landform (hillslope, te	errace, etc.):	Hillslo	pe	Local Relie	ef (concave, con	ivex, none):		None	Slope (%):
Subregion (LRR or M	/LRA):	LRR N	Lat:	40.536080	Long:	-79.5	565191	Datum:	NAD83
Soil Map Unit Name:		channery silt loam, 15 to			0			ication:	
		the site typical for this ti		<u> </u>	Yes X	No		ain in Remarks.)	
Are Vegetation	<u>No</u> , Soil		-	icantly disturb		Are "Normal Cir Yes			
Are Vegetation	<u>No</u> , Soil	No , or Hydrolog	y <u>No</u> natura	ally problemat	ic? (If needed, explair	n any answe	rs in Remarks.)	
SUMMARY OF F	INDINGS - At	ach site map show	ing sampling p	oint locatio	ons, transec	ts, importan	nt feature	s, etc.	
Hydrophytic Vegetat	ion Present?		Yes N	lo <u>X</u>					
Hydric Soil Present?			Yes N	lo <u>X</u> ∣	s the Sampled	d Area Yes		No <u>X</u>	
Wetland Hydrology F	Present?		Yes N	lo <u>X</u>	within a Wetla	and?	Upla	nd	
Remarks: Sampling point is loc	ated on a forest	ed hillslope adjacent to ^h	Vetland 11.						
HYDROLOGY									
Wetland Hydrology	Indicators:						<u>Seconda</u>	ry Indicators (minii	mum of two required)
Primary Indicators (min	imum of one is req	uired; check all that apply)						Surface Soil Cracks (B6)
Surface Water (A	A1)		True Aquatic Plant	s (B14)				Sparsely Vegetated (Concave Surface (B8)
High Water Table	e (A2)	·	_Hydrogen Sulfide C				[Drainage Patterns (B	10)
Saturation (A3)			Oxidized Rhizosph	eres on Living F	Roots (C3)			Moss Trim Lines (B1	6)
Water Marks (B1			Presence of Reduc					Dry-Season Water Ta	
Sediment Depos			Recent Iron Reduc		ils (C6)			Crayfish Burrows (C8	
Drift Deposits (B			Thin Muck Surface					Saturation Visible on	
Algal Mat or Crus			Other (Explain in R	temarks)				Stunted or Stressed	
Iron Deposits (B								Geomorphic Position	
	e on Aerial Imager	у (В7)						Shallow Aquitard (D3	-
Water-Stained Le								Mircotopographic Rel	
Aquatic Fauna (E	513)						'	FAC-Neutral Test (D)
Field Observations	:								
Surface Water Prese	ent? Yes	No	X Depth	n (inches):					
Water Table Present	? Yes	No		n (inches):		Wetland	d Hydrolog	y Present?	
Saturation Present? (includes capillary fri	Yes nge)	No	X Depth	n (inches):		Yes _		No <u>X</u>	
Describe Recorded I	Data (stream ga	uge, monitoring well, aei	ial photos, previou	s inspections)	, if available:				
Remarks:									

Sampling Point	<u> </u>

				Deminence Text worksheet
	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species
1. Prunus serotina	20	Y	FACU	That Are OBL, FACW, or FAC: 2 (A)
2. Quercus alba	10	N	FACU	
3. Acer platanoides	10	<u>N</u>	UPL	Total Number of Dominant
4. Acer rubrum	15	Y	FAC	Species Across All Strata: 7 (B)
5. Acer saccharum	15	Y	FACU	
6. Fagus grandifolia	10	<u>N</u>	FACU	Percent of Dominant Species
7		- ·		That Are OBL, FACW, or FAC: 29% (A/B)
	80	= Total Cover		
Sapling Stratum: (Plot Size: 15)		-		Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2.				OBL species x 1 =
2				FACW species x 2 =
				FAC species x 3 =
		·		FACU species x 4 =
6				
·		·		· · · · · · · · · · · · · · · · · · ·
7		Table		Column Totals:(A)(B)
	0	= Total Cover		
Shrub Stratum: (Plot Size: 15)		\ <i>.</i>	F4.6	Prevalence Index = B/A =
1. Quercus alba	10	Y	FACU	
2. Fagus grandifolia	15	Y	FACU	Hydrophytic Vegetation Indicators:
3				1 - Rapid Test for Hydrophytic Vegetation
4.				2 - Dominance Test is >50%
5		- ·		3 - Prevalence Index is ≤3.0 ¹
6				4 - Morphological Adaptations ¹ (Provide supporting
7.				data in Remarks or on a separate sheet)
	25	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum: (Plot size: 5)		-		
1. Parthenocissus quinquefolia	5	Ν	FACU	1
	10	Y	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
 <u>Microstegium vimineum</u> Dennstaedtia punctilobula 	10	Y	FACU	
i	-	·		Definitions of Four Vegetation Strata:
4. Rubus allegheniensis	5	<u>N</u>	FACU	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
5				
6		·		Sapling - Woody plants, excluding woody vines, aproximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
7		·		
8				Shrub - Woody plants, excluding woody vines, aproximately 3 to 20
9				ft (1 to 6 m) in height.
10				Herb - All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12		·		Woody Vines - All woody vines greater than 3.28 ft in height.
		= Total Cover		
Woody Vine Stratum: (Plot size: 30)		-		
1				
2.				
				Hydrophytic
				Vegetation Present? Yes No X
4 5		·		
-		= Total Cover		
Demontras (Include abote sumbare bare er er e		-		
Remarks: (Include photo numbers here or on a sepa	arate sneet.)			
Herbaceous layer is sparse due to thick leaf litter an	d canopy cov	/er		
	a canopy con			

Profile Desc	ription: (Describe to t	he depth	needed to docume	nt the indi	cator or conf	irm the ab	sence of indicators.)		
Depth	Matrix			Redox Fea					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-1	10YR 4/3	100					Silt loam		
1-10	7.5YR 6/6	100			;		Clay loam		
¹ Type: C=Cor	ncentration, D=Depletion, F	M=Reduc	ed Matrix, MS=Masked	Sand Grain	ıs.		² Location: PL= Pore Lin	ing, M=Matrix.	
Hydric Soil In	dicators:						Indicators for Problema	atic Hydric Soils ³ :	
Histosol (Dark Surface (S7				2 cm Muck (A10) (N	ILRA 147)	
	ipedon (A2)		Polyvalue Below			48)	Coast Prairie Redo	: (A16)	
Black His			Thin Dark Surfac		RA147, 148)		(MLRA 147, 148) Piedmont Floodplair	e Seile (E10)	
	n Sulfide (A4) Layers (A5)		X Depleted Matrix ((MLRA 136, 147)	1 Solis (F 19)	
	ck (A10) (LRR N)		Redox Dark Surfa				Very Shallow Dark S	Surface (TE12)	
	Below Dark Surface (A11)		Depleted Dark Su	. ,			Other (Explain in Re		
	rk Surface (A12)		Redox Depressio	. ,				inano)	
	ucky Mineral (S1) (LRR N,		Iron-Manganese		2) (LRR N,				
	147, 148)		 MLRA 136)	,					
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA	A 136, 122)		³ Indicators of hydrophy	tic vegetation and	
	edox (S5)		Piedmont Floodp		-	3)	wetland hydrology m	-	
	Matrix (S6)		Red Parent Mate			-	unless disturbed or		
-							1		
	ayer (if observed):								
Type:	Rock						Undels On the Descention	No	V
Depth (in	ches): 10	;					Hydric Soil Present?	Yes No _	<u>x</u>
Remarks:							1		

Project/Site:	332-793 MA	M14 U1 Pipeline and Wa	terline City/Co	ounty: W	estmoreland C	ounty	Samplir	ng Date:	August 1, 2023
Applicant/Owner:		CNX Midstream O	perating Company L	LC		State: P	A Samplin	ng Point:	SP-20
Investigator(s):		ARS, APB		Section	n, Township, Ra	ange:	Wa	shington T	ownship
Landform (hillslope, te	race, etc.):	Depress	sion	Local Relief (concave, convex	, none):	Concave		Slope (%):
Subregion (LRR or M	LRA):	LRR N	Lat: 4	0.535416	Long:	-79.568	504	Datum:	
Soil Map Unit Name:		sda very channery silt loa					I classification:	_	
		the site typical for this tin			es X		f no, explain in Re		
Are Vegetation		<u>No</u> , or Hydrology	-				nstances" prese		
Are Vegetation	<u>No</u> , Soil	<u>No</u> , or Hydrology	<u>No</u> naturally	/ problematic?	9 (If ne	Yes	X No_ ny answers in Rem		
SUMMARY OF F	NDINGS - At	tach site map showi	ng sampling poi	nt locations	s, transects,	important f	eatures, etc.		
Hydrophytic Vegetati	on Present?		Yes X No						
Hydric Soil Present?			Yes X No	Is t	he Sampled Ar	rea Yes	X No	<u> </u>	
Wetland Hydrology F	resent?		Yes X No	wi	ithin a Wetland	? <u>We</u>	etland 12 - PEM	<u> </u>	
Sampling point is loc	ated within a de	pressional wetland on the	hillsope of a meadc	ow, adjacent to	o an existing fa	rm road. Wetla	nd is comprised	of two pa	rts; 12A and 12B.
HYDROLOGY									
Wetland Hydrology	Indicators:					<u>s</u>	econdary Indica	tors (minir	mum of two required)
Primary Indicators (mini	num of one is rec	uired; check all that apply)					Surface S	ioil Cracks (B6)
Surface Water (A	1)		True Aquatic Plants (B14)			Sparsely \	Vegetated (Concave Surface (B8)
High Water Table	(A2)		Hydrogen Sulfide Odd	or (C1)			Drainage	Patterns (B	10)
Saturation (A3)		X	Oxidized Rhizosphere	es on Living Roo	ots (C3)		Moss Trim	n Lines (B16	6)
Water Marks (B1			Presence of Reduced	I Iron (C4)			Dry-Seaso	on Water Ta	able (C2)
Sediment Deposi			Recent Iron Reduction	n in Tilled Soils	(C6)			Burrows (C8	
Drift Deposits (B3			Thin Muck Surface (C			_			Aerial Imagery (C9)
Algal Mat or Crus			Other (Explain in Rem	narks)				r Stressed I	
Iron Deposits (B5								hic Position	
Inundation Visible	-	y (B7)						quitard (D3	
Water-Stained Le								graphic Rel	. ,
Aquatic Fauna (B	13)						X FAC-Neut	tral Test (D	5)
Field Observations:									
Surface Water Prese	nt? Yes	No X	Depth (i	nches):					
Water Table Present		No X				Wetland H	ydrology Prese	nt?	
Saturation Present? (includes capillary frir	Yes	No				Yes	<u>X</u> No_		
		uge, monitoring well, aeri	al photos, previous ir	nspections), if	available:				
Remarks:									

	tine names of	of plants.		Sampling Point:	SP-20
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Free Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species	
1.	// 00/01	Opecies:	Olalus	That Are OBL, FACW, or FAC:	4 (A)
					4 (A)
				Total Number of Deminent	
3				Total Number of Dominant	(D)
				Species Across All Strata:	4 (B)
5					
δ				Percent of Dominant Species	
7				That Are OBL, FACW, or FAC:	100% (A/B)
	0	= Total Cover		Development in development of	
Sapling Stratum: (Plot Size: 15	_)			Prevalence Index worksheet:	
				Total % Cover of:	Multiply by:
2					
3				FACW species x 2 =	
ł		. <u></u>		FAC species x 3 =	
j				FACU speciesx 4 =	
S					
7					(B)
	0	= Total Cover			
Shrub Stratum: (Plot Size: 15)			Prevalence Index = B/A =	
·					
				Hydrophytic Vegetation Indicators:	
、				X 1 - Rapid Test for Hydrophytic Veget	ation
				X 2 - Dominance Test is >50%	
				$3 - Prevalence Index is \leq 3.0^{1}$	
				4 - Morphological Adaptations ¹ (Prov	ide supporting
7.				data in Remarks or on a separate	
	0			Problematic Hydrophytic Vegetation	¹ (Evolain)
Jorb Stratum: (Diat aiza) 5		= Total Cover			(Explain)
Herb Stratum: (Plot size: 5	_)25	Y	OBL		
		<u> </u>		¹ Indicators of hydric soil and wetland hydro	
2. <u>Scirpus cyperinus</u> 3. Persicaria maculosa	<u>15</u>	Y	FACW FACW	be present, unless disturbed or problematic	Э.
				Definitions of Four Vegetation Strata:	(7.0)
4. Solidago gigantea	10	<u>N</u>	FACW	Tree - Woody plants, excluding vines, 3 in. more in diameter at breast height (DBH), re	
5. <u>Microstegium vimineum</u>	10	<u> </u>	FAC		
6. Agrostis gigantea		<u>Y</u>	FACW	Sapling - Woody plants, excluding woody (6 m) or more in height and less than 3 in.	vines, aproximately 20 ft
	10	N	OBL	(+ ···) -· ·····	(7.6 cm) DBH.
			,	Shrub - Woody plants, excluding woody vi	
3)				ft (1 to 6 m) in height.	nes, aproximately 3 to 20
3 9 0				ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants,	nes, aproximately 3 to 20 regardless
3 9 0				ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, of size, and woody plants less than 3.28 ft	nes, aproximately 3 to 20 regardless tall.
3.				ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants,	nes, aproximately 3 to 20 regardless tall.
3 9 10 11 12				ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, of size, and woody plants less than 3.28 ft	nes, aproximately 3 to 20 regardless tall.
3 9 10 11 12 <u>Noody Vine Stratum:</u> (Plot size: <u>30</u>	100			ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, of size, and woody plants less than 3.28 ft	nes, aproximately 3 to 20 regardless tall.
3 9 10 11 12 <u>Noody Vine Stratum:</u> (Plot size: <u>30</u>		= Total Cover		ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, of size, and woody plants less than 3.28 ft	nes, aproximately 3 to 20 regardless tall.
3 9 10 11 12 <u>Noody Vine Stratum:</u> (Plot size: <u>30</u> 1	 	= Total Cover		ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, of size, and woody plants less than 3.28 ft Woody Vines - All woody vines greater that	nes, aproximately 3 to 20 regardless tall.
3	 	= Total Cover		ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, of size, and woody plants less than 3.28 ft	nes, aproximately 3 to 20 regardless tall.
3. 9. 10. 11. 12. <u>Woody Vine Stratum:</u> (Plot size: <u>30</u> 1. 2. 3.		= Total Cover		ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, of size, and woody plants less than 3.28 ft Woody Vines - All woody vines greater that Hydrophytic	nes, aproximately 3 to 20 regardless tall. an 3.28 ft in height.
3		= Total Cover		ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, of size, and woody plants less than 3.28 ft Woody Vines - All woody vines greater that Hydrophytic Vegetation	nes, aproximately 3 to 20 regardless tall. an 3.28 ft in height.

	ription: (Describe to t	ine aepth	needed to docume			in the ab	sence of indicators.)	
Depth	Matrix			Redox Fea		. 2	-	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 4/2	90	10YR 5/8	10	С	PL/M	Clay loam	
		·						
					······································			
					<u> </u>			
		·						
					<u> </u>			
¹ Type: C=Cor	ncentration, D=Depletion, I	RM=Reduce	d Matrix, MS=Masked	Sand Grain	s.		² Location: PL= Pore Lir	ning, M=Matrix.
Hydric Soil In	•		,				Indicators for Problem	
Histosol (Dark Surface (S7	7)			2 cm Muck (A10) (-
	pedon (A2)		Polyvalue Below	,) (MLRA 147.1	48)	Coast Prairie Redo	
Black His	,		Thin Dark Surfac			40)	(MLRA 147, 148)	
	n Sulfide (A4)		Loamy Gleyed M		,,		Piedmont Floodpla	
	Layers (A5)		X Depleted Matrix ((MLRA 136, 147)	
	ck (A10) (LRR N)		Redox Dark Surf	ace (F6)			Very Shallow Dark	Surface (TF12)
Depleted	Below Dark Surface (A11)	Depleted Dark S	urface (F7)			Other (Explain in R	lemarks)
Thick Dar	k Surface (A12)		Redox Depression	ons (F8)				
Sandy Mu	ucky Mineral (S1) (LRR N,		Iron-Manganese	Masses (F1	2) (LRR N,			
MLRA	147, 148)		MLRA 136)					
	eyed Matrix (S4)		Umbric Surface (-		³ Indicators of hydrophy	
Sandy Re			Piedmont Floodp			-	wetland hydrology n	
Stripped I	Matrix (S6)		Red Parent Mate	rial (F21) (№	ILRA 127, 147))	unless disturbed o	or problematic.
Pootriotivo I o	ayer (if observed):							
Type:	Rock							
							Hydric Soil Present?	
Depth (in	ches): 12	<u> </u>					Hydric Soll Present?	Yes <u>X</u> No
Remarks:								
Remarks.								

Project/Site:	332-793 MA	M14 U1 Pipeline and W	aterline	City/County:	Westmorelar	nd County		Sampling Date:	August 1, 2023		
Applicant/Owner:		CNX Midstream C	Operating Com	pany LLC		State	e: PA	Sampling Point:	SP-21		
Investigator(s):	igator(s): ARS, APB Section, Township, Range:								Township		
Landform (hillslope, to	errace, etc.):	Hillslo	ре	Local Re	lief (concave, co	nvex, none):		None	Slope (%):		
Subregion (LRR or I	/LRA):	LRR N	Lat:	40.535422	Long:	-79	9.568578	Datum:			
Soil Map Unit Name	,	sda very channery silt lo						sification:			
		the site typical for this ti			Yes X	No		plain in Remarks.)			
Are Vegetation		No , or Hydrolog	-	anificantly distu				ces" present?			
	,	<u> </u>	, <u> </u>	g,		Yes	Х	·			
Are Vegetation	No_, Soil	No , or Hydrolog	y <u>No</u> na	aturally problem	atic?			vers in Remarks.)			
		ach site map show	ina samalin	a point locat	ions transo	cte import	ant foatu	as atc			
		ach she map show				cis, import	antieatui	63, 610.			
Hydrophytic Vegetat Hydric Soil Present?			Yes Yes	No <u>X</u>		Vo	e	No X			
Wetland Hydrology			Yes	No <u>X</u> No <u>X</u>	Is the Sample within a Wet	u Alea	sUn	_ No <u>X</u> land			
			100		within a wood		00				
Remarks:											
Sampling point is loo	ated on the hills	ope of a meadow, adjac	ent to Wetland	I 12 and an exis	ting farm road.						
HYDROLOGY											
Wetland Hydrology	Indicators:						Second	ary Indicators (min	imum of two required)		
Primary Indicators (min	imum of one is req	uired; check all that apply)						Surface Soil Cracks	(B6)		
Surface Water (A	A1)		True Aquatic F	Plants (B14)				Sparsely Vegetated	Concave Surface (B8)		
High Water Tabl	e (A2)		Hydrogen Sulfi	ide Odor (C1)				Drainage Patterns (B	310)		
Saturation (A3)			Oxidized Rhizo	ospheres on Living	g Roots (C3)			Moss Trim Lines (B1	16)		
Water Marks (B*)		Presence of R	educed Iron (C4)				Dry-Season Water Table (C2)			
Sediment Depos	its (B2)		Recent Iron Re	eduction in Tilled S	Soils (C6)			Crayfish Burrows (C	8)		
Drift Deposits (B	3)		Thin Muck Sur	face (C7)				Saturation Visible or	n Aerial Imagery (C9)		
Algal Mat or Cru	st (B4)		Other (Explain	in Remarks)				_Stunted or Stressed	Plants (D1)		
Iron Deposits (B	5)							Geomorphic Position	ר (D2)		
Inundation Visibl	e on Aerial Imager	y (B7)						Shallow Aquitard (D	3)		
Water-Stained L	eaves (B9)							_Mircotopographic Re	elief (D4)		
Aquatic Fauna (I	313)							FAC-Neutral Test (D	95)		
Field Observations	:										
Surface Water Pres	ent? Yes	No	<u>x</u> D	epth (inches):							
Water Table Presen	t? Yes	No	X D	epth (inches):		Wetla	nd Hydrol	ogy Present?			
Saturation Present?	Yes	No	<u>x</u> D	epth (inches):		Yes		No <u>X</u>			
(includes capillary fri											
Describe Recorded	Data (stream gai	uge, monitoring well, aer	ial photos, prev	vious inspection	s), if available:						
Remarks:											

Sampling Point:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1,				That Are OBL, FACW, or FAC: 0 (A)
2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 4 (B)
5				
6.				Percent of Dominant Species
7.				That Are OBL, FACW, or FAC: 0% (A/B)
	0	= Total Cover		
Sapling Stratum: (Plot Size: 15)			Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x 1 =
3				FACW species x 2 =
4				FAC species x 3 =
5				FACU species x 4 =
6				UPL species x 5 =
7				Column Totals: (A) (B)
	0	= Total Cover		
Shrub Stratum: (Plot Size: 15	_)			Prevalence Index = B/A =
1. Rosa multiflora	20	Υ	FACU	
2				Hydrophytic Vegetation Indicators:
3				1 - Rapid Test for Hydrophytic Vegetation
4.				2 - Dominance Test is >50%
5				3 - Prevalence Index is $\leq 3.0^{1}$
6				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
7				
	20	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum: (Plot size: 5	- '		54.011	
1. Lotus tenuis	20	<u> </u>	FACU	¹ Indicators of hydric soil and wetland hydrology must
 <u>Daucus carota</u> Erigeron annuus 	<u>15</u>	<u>N</u> Y	UPL FACU	be present, unless disturbed or problematic.
		 N	FACU	Definitions of Four Vegetation Strata: Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
 <u>Phleum pratense</u> Trifolium repens 	5	<u> </u>	FACU	more in diameter at breast height (DBH), regardless of height.
6. Dactylis glomerata	30	<u> </u>	FACU	Sapling - Woody plants, excluding woody vines, aproximately 20 ft
7. Clinopodium vulgare	5	 N	UPL	(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
°				Shrub - Woody plants, excluding woody vines, aproximately 3 to 20
9.				ft (1 to 6 m) in height.
10.				Herb - All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12.				Woody Vines - All woody vines greater than 3.28 ft in height.
	100	= Total Cover		
Woody Vine Stratum: (Plot size: 30	-			
1				
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
5				
	0	= Total Cover		
Remarks: (Include photo numbers here or on a s	eparate sheet.)			

Profile Desc	ription: (Describe to	the depth r	needed to documer	nt the indi	cator or conf	irm the ab	sence of indicators.)			
Depth	Matrix			Redox Fea	tures		_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8	10YR 4/3	100					Silt loam	with gravel		
								inter gration		
¹ Type: C=Con	centration, D=Depletion,	RM=Reduce	d Matrix, MS=Masked	Sand Grain	IS.		² Location: PL= Pore Lin	ing, M=Matrix.		
Hydric Soil In	· · · · ·		,				Indicators for Problema			
•			Dark Surface (87	`			2 cm Muck (A10) (N	-		
Histosol (/	oedon (A2)	-	Dark Surface (S7 Polyvalue Below	,	(MI RA 147 1	48)	Coast Prairie Redo			
Black Hist		-	Thin Dark Surface				(MLRA 147, 148)			
	Sulfide (A4)	-	Loamy Gleyed Ma		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Piedmont Floodplai	n Soils (F19)		
	Layers (A5)	-	Depleted Matrix ((MLRA 136, 147)			
	k (A10) (LRR N)	-	Redox Dark Surfa					Surface (TF12)		
	Below Dark Surface (A11)	Depleted Dark Su			Very Shallow Dark Surface (TF12) Other (Explain in Remarks)				
·	k Surface (A12)	· -	Redox Depressio	. ,				,		
Sandy Mu	icky Mineral (S1) (LRR N	,	Iron-Manganese	Masses (F1	2) (LRR N,					
MLRA	147, 148)	-	MLRA 136)							
Sandy Gle	eyed Matrix (S4)		Umbric Surface (I	F13) (MLRA	A 136, 122)		³ Indicators of hydrophy	tic vegetation and		
Sandy Re	dox (S5)		Piedmont Floodp	lain Soils (F	19) (MLRA 148	B)	wetland hydrology m	ust be present,		
Stripped M	Matrix (S6)	-	Red Parent Mate	rial (F21) (N	ILRA 127, 147)	unless disturbed or	problematic.		
							T			
Restrictive La	yer (if observed):									
Type:	Rock									
Depth (inc	ches): 8						Hydric Soil Present?	Yes <u>No X</u>		
Remarks:										

Project/Site:	332-793 MA	M14 U1 Pipeline and V	Vaterline	City/County:	Westmoreland	moreland County Sampling Date: August 1, 2023					
Applicant/Owner:		CNX Midstream Operating Company LLC State:					PA	Sampling Point:	SP-22		
Investigator(s):	ARS, APB Section, Township, Range:							Washington Township			
Landform (hillslope, terr	ace, etc.):	Hills	оре	Local Re	lief (concave, con	vex, none):		Concave	Slope (%):		
Subregion (LRR or ML	.RA):	LRR N	Lat:	40.536815	Long:	-79	.569266				
Soil Map Unit Name:		silt loam, 8 to 15 perce						sification:			
-		the site typical for this t			Yes X	No		plain in Remarks.)			
Are Vegetation		<u>No</u> , or Hydrolo		significantly distu			-	ces" present?			
Are Vegetation	<u>No</u> , Soil	No, or Hydrolo	gy <u>No</u> r	naturally problem	atic? (I			vers in Remarks.)			
SUMMARY OF FIN	IDINGS - Att	ach site map shov	ving samplir	ng point locat	ions, transec	ts, importa	int featui	res, etc.			
Hydrophytic Vegetatio	n Present?		Yes X	No							
Hydric Soil Present?			Yes X	No	Is the Sampled	Area Yes	x <u> </u>	No			
Wetland Hydrology Pr	esent?		Yes X	No	within a Wetla		Wetland	13 - PEM			
Remarks: Sampling point is loca	ed within a see	ep-fed wetland on the h	illslope of a me	eadow. Wetland i	s comprised of 3	8 parts; 13A, 1	13B and 13	3C.			
HYDROLOGY											
Wetland Hydrology I	ndicators:						Second	lary Indicators (mini	mum of two required)		
Primary Indicators (minim	um of one is req	uired; check all that apply)					Surface Soil Cracks	(B6)		
Surface Water (A1)		True Aquatic	Plants (B14)				Sparsely Vegetated	Concave Surface (B8)		
High Water Table (A2)		Hydrogen Su	lfide Odor (C1)				Drainage Patterns (E	310)		
Saturation (A3)		<u>X</u>	Oxidized Rhiz	zospheres on Living	g Roots (C3)			Moss Trim Lines (B1	6)		
Water Marks (B1)			Presence of	Reduced Iron (C4)				Dry-Season Water T	able (C2)		
Sediment Deposits	(B2)		Recent Iron F	Reduction in Tilled S	Soils (C6)			Crayfish Burrows (C	8)		
Drift Deposits (B3)			Thin Muck St	urface (C7)				Saturation Visible on	Aerial Imagery (C9)		
Algal Mat or Crust	(B4)		Other (Explai	n in Remarks)			·	Stunted or Stressed	Plants (D1)		
Iron Deposits (B5)								Geomorphic Position	. ,		
Inundation Visible		/ (B7)						Shallow Aquitard (D3			
Water-Stained Lea	ves (B9)							Mircotopographic Re			
Aquatic Fauna (B1	3)						X	FAC-Neutral Test (D	5)		
Field Observations:											
Surface Water Presen	t? Yes	No	<u>x</u> I	Depth (inches):							
Water Table Present?	Yes	No	X	Depth (inches):		Wetla	nd Hydrole	ogy Present?			
Saturation Present? (includes capillary fring	Yes je)	No	<u>x</u> 1	Depth (inches):		Yes	X	No			
Describe Recorded Da	ata (stream gai	uge, monitoring well, ae	erial photos, pre	evious inspection	s), if available:						
Remarks:											

Sampling Point:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1.		· <u> </u>		That Are OBL, FACW, or FAC: 3 (A)
		· ·		
				Total Number of Dominant
				Species Across All Strata: 3 (B)
6				Percent of Dominant Species
7.		· ·		That Are OBL, FACW, or FAC: 100% (A/B)
···	0	= Total Cover		
Sapling Stratum: (Plot Size: 15)				Prevalence Index worksheet:
1.				Total % Cover of: Multiply by:
2		· ·		OBL species x 1 =
				FACW species x 2 =
				FAC species x 3 =
				FACU species x 4 =
				UPL species X 5 =
		· ·		Column Totals: (A) (B)
7	0	= Total Cover		
Shrub Stratum: (Plot Size: 15)	0	- 1010100701		Prevalence Index = B/A =
,				
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
		· ·		X 2 - Dominance Test is >50%
		· ·		3 - Prevalence Index is $\leq 3.0^{1}$
		· ·		4 - Morphological Adaptations ¹ (Provide supporting
6		· ·		data in Remarks or on a separate sheet)
7	0			Droblematic Hydrophytic Vegetation ¹ (Evaluin)
Herb Stratum: (Plot size: 5)		= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
	10	N	FACW	
2 Solidogo gigontos	20	Y	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 Microstogium viminoum	20	Y	FAC	Definitions of Four Vegetation Strata:
4. Impatiens sp.	5	 	FACW	-
	15	 	OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
,	5	 		
6. <u>Phleum pratense</u> 7. Agrostis gigantea	20	Y	FACU FACW	Sapling - Woody plants, excluding woody vines, aproximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
7. <u>Agrostis gigantea</u> 8.	20	<u> </u>	FACVV	Shrub - Woody plants, excluding woody vines, aproximately 3 to 20
9.		· ·		ft (1 to 6 m) in height.
9		· ·		Harb All barbassays (non woody) planta regardless
11		· ·		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				Woody Vines - All woody vines greater than 3.28 ft in height.
12		= Total Cover		
Woody Vine Stratum: (Plot size: 30)	105			
		· ·		
2				Hydrophytic
3				Vegetation Present? Yes X No
4 5		· ·		Present? Yes X No
^{5.}	0	= Total Cover		
Remarks: (Include photo numbers here or on a sepa				
Remarks. (include photo numbers here of on a sep	arate sheet.)			

Profile Desc	ription: (Describe to t	he depth	needed to documer	nt the indi	cator or con	firm the ab	sence of indicators.)			
Depth	Matrix			Redox Fea	tures					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
	10YR 6/4						· ·			
0-3		100					Sandy silt loam			
3-16	10YR 4/1	95	10YR 5/8	5	C	PL/M	Clay loam			
		·								
		·								
							· · · · · · · · · · · · · · · · · · ·			
		·								
		·								
¹ Type: C=Con	centration, D=Depletion, F	RM=Reduce	ed Matrix, MS=Masked	Sand Grair	IS.		² Location: PL= Pore Li	ning, M=Matrix.		
Hydric Soil In	dicators:						Indicators for Problem	natic Hydric Soils ³ :		
Histosol (A			Dark Surface (S7)			2 cm Muck (A10) (-		
	pedon (A2)		Polyvalue Below		B) (MLRA 147,	148)	Coast Prairie Redo	-		
Black His			Thin Dark Surface				(MLRA 147, 148)			
Hydrogen	Sulfide (A4)		Loamy Gleyed M	atrix (F2)			Piedmont Floodpla	in Soils (F19)		
Stratified	Layers (A5)		X Depleted Matrix (F3)			(MLRA 136, 147)			
2 cm Muc	k (A10) (LRR N)		Redox Dark Surfa	ace (F6)			Very Shallow Dark	Surface (TF12)		
Depleted	Below Dark Surface (A11)	1	Depleted Dark Su	urface (F7)		Other (Explain in Remarks)				
Thick Dar	k Surface (A12)		Redox Depressio	ns (F8)						
Sandy Mu	ucky Mineral (S1) (LRR N,		Iron-Manganese	Masses (F1	2) (LRR N,					
	147, 148)		MLRA 136)							
	eyed Matrix (S4)		Umbric Surface (-		³ Indicators of hydroph			
Sandy Re			Piedmont Floodp			-	wetland hydrology r			
Stripped I	Matrix (S6)		Red Parent Mate	rial (F21) (N	ILRA 127, 147)	unless disturbed o	or problematic.		
-										
	iyer (if observed):									
Type:										
Depth (ind	ches):						Hydric Soil Present?	Yes X No		
Remarks:										

Project/Site:	332-793 MA	M14 U1 Pipeline and W	aterline	City/County:	Westmorelar	nd County		Sampling Date:	August 1, 2023
Applicant/Owner:		pany LLC		Stat	e: PA	PA Sampling Point: SP-23			
Investigator(s):		ARS, APB		Se	ction, Township	o, Range:		Washington -	Township
Landform (hillslope, te	errace, etc.):	Hillslo	pe	Local Rel	ief (concave, cor	nvex, none):		None	Slope (%):
Subregion (LRR or M	/LRA):	LRR N	Lat:	40.536805	Long:	-7	9.569321	Datum:	NAD83
Soil Map Unit Name:		silt loam, 8 to 15 perce			0 _			sification:	
		the site typical for this ti			Yes X	No		plain in Remarks.)	
Are Vegetation	<u>No</u> , Soil		-	ignificantly distur				ces" present?	
Are Vegetation	<u>No</u> , Soil	No, or Hydrolog	y <u>No</u> n	aturally problem	atic?	(If needed, ex	olain any answ	vers in Remarks.)	
SUMMARY OF F	INDINGS - Att	ach site map show	ing samplin	g point locati	ons, transed	cts, impor	tant featur	es, etc.	
Hydrophytic Vegetati	ion Present?		Yes	No <u>X</u>					
Hydric Soil Present?			Yes	No <u>X</u>	Is the Sample	d Area Y	es	No <u>X</u>	
Wetland Hydrology F	Present?		Yes	No <u>X</u>	within a Wetl	and?	Up	land	
Remarks: Sampling point is loc	ated on a foreste	ed hillslope, adjacent to	Wetland 13.						
HYDROLOGY									
Wetland Hydrology	Indicators:						Second	lary Indicators (mini	mum of two required)
Primary Indicators (mini	imum of one is req	uired; check all that apply)						Surface Soil Cracks	(B6)
Surface Water (A	(1)		True Aquatic F	Plants (B14)				Sparsely Vegetated	Concave Surface (B8)
High Water Table	e (A2)		Hydrogen Sulf					Drainage Patterns (B	10)
Saturation (A3)				ospheres on Living	Roots (C3)			Moss Trim Lines (B1	-
Water Marks (B1			_	Reduced Iron (C4)				Dry-Season Water T	
Sediment Deposi			_	eduction in Tilled S	Soils (C6)			Crayfish Burrows (C8	
Drift Deposits (B3			Thin Muck Su					Saturation Visible on	
Algal Mat or Crus			Other (Explain	i in Remarks)				Stunted or Stressed	
Iron Deposits (B5		(07)						Geomorphic Position	
	e on Aerial Imagery	(в7)						Shallow Aquitard (D3	,
Water-Stained Le								Mircotopographic Re FAC-Neutral Test (D	
	515)								5)
Field Observations	:								
Surface Water Prese	ent? Yes	No	<u>х </u> D	epth (inches):					
Water Table Present	? Yes	No	<u>x D</u>	epth (inches):		Wetl	and Hydrolo	ogy Present?	
Saturation Present? (includes capillary fri	Yes nge)	No	<u>x</u> D	epth (inches):		Yes	S	No <u></u>	
Describe Recorded I	Data (stream gau	uge, monitoring well, ae	ial photos, pre	vious inspection:	s), if available:				
Remarks:									

Sampling	Point:	
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	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species	
. Acer rubrum	20	Y	FAC	That Are OBL, FACW, or FAC: 2	(A)
. Liriodendron tulipifera	20	Y	FACU		
·				Total Number of Dominant	
				Species Across All Strata: 8	(B)
				Percent of Dominant Species	
				That Are OBL, FACW, or FAC: 25%	(A/B
	40	= Total Cover			
apling Stratum: (Plot Size: 15)			Prevalence Index worksheet:	
				Total % Cover of: Multiply by	<u>: </u>
				OBL species x 1 =	
				FACW species x 2 =	
·				FAC species x 3 =	
				FACU species x 4 =	
				UPL species x 5 =	
	_			Column Totals: (A)	
	0	= Total Cover			
hrub Stratum: (Plot Size: 15)			Prevalence Index = B/A =	
Elaeagnus umbellata	20	Y	UPL		
Aralia spinosa	5	N	FAC	Hydrophytic Vegetation Indicators:	
. Rubus allegheniensis	20	Y	FACU	1 - Rapid Test for Hydrophytic Vegetation	
Prunus serotina	30	Y	FACU	2 - Dominance Test is >50%	
				3 - Prevalence Index is ≤3.0 ¹	
				4 - Morphological Adaptations ¹ (Provide supporting	
	_			data in Remarks or on a separate sheet)	
	75	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)	
lerb Stratum: (Plot size: 5)				
. Rubus flagellaris	20	Y	FACU	¹ Indicators of hydric soil and wetland hydrology must	
Festuca rubra	30	Y	FACU	be present, unless disturbed or problematic.	
Lotus tenuis	5	N	FACU	Definitions of Four Vegetation Strata:	
Microstegium vimineum	10	N	FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or	
. Echinochloa crus-galli	20	Y	FAC	more in diameter at breast height (DBH), regardless of he	ight.
. Amphicarpaea bracteata	15	N	FAC	Sapling - Woody plants, excluding woody vines, aproxim	ately 20 f
				(6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
				Shrub - Woody plants, excluding woody vines, aproximat	ely 3 to 2
				ft (1 to 6 m) in height.	
0.				Herb - All herbaceous (non-woody) plants, regardless	
1				of size, and woody plants less than 3.28 ft tall.	
2				Woody Vines - All woody vines greater than 3.28 ft in her	ght.
		= Total Cover			
Voody Vine Stratum: (Plot size: 30)				
· · · · · · · · · · · · · · · · · · ·	-				
				Hydrophytic Vegetation	
				Present? Yes No	х
	-				
	0	= Total Cover			
Remarks: (Include photo numbers here or on a se	-	= Total Cover			

	iption: (Describe to	the depth r				rm the ab	sence of indicators.)		
Depth	Matrix			Redox Feat	tures Type ¹	-				
(inches)	inches) Color (moist) % Color (moist) %					Loc ²	Texture	Remarks		
0-6	10YR 5/3	100					Clay loam	With gravel, disturbed		
	-									
	-				<u> </u>					
	antrotion D Doplation	DM Doduco	d Matrix MS Maakad	Sond Croin			² Location: PL= Pore	Lining M. Motrix		
	centration, D=Depletion,	RIVI=Reduce	d Matrix, MS=Masked	Sand Grain	S.					
Hydric Soil Inc								ematic Hydric Soils ³ :		
Histosol (A		-	Dark Surface (S7				2 cm Muck (A10			
Histic Epip		-	Polyvalue Below			48)	Coast Prairie Re			
Black Histi	. ,	-	Thin Dark Surface		A147, 148)		(MLRA 147, 14			
· · ·	Sulfide (A4)	-	Loamy Gleyed M				Piedmont Flood			
	ayers (A5) (A10) (LRR N)	-	Depleted Matrix ((MLRA 136, 14			
	Below Dark Surface (A11	· -	Redox Dark Surfa			Very Shallow Dark Surface (TF12) Other (Explain in Remarks)				
	Surface (A12)	, -	Redox Depressio					(Remarks)		
	cky Mineral (S1) (LRR N	-	Iron-Manganese	. ,	2) (LRR N.					
	47, 148)	, –			_) (,					
	yed Matrix (S4)		Umbric Surface (F13) (MLRA	136, 122)		³ Indicators of hydro	phytic vegetation and		
Sandy Re		-	Piedmont Floodp)		y must be present,		
Stripped N		-	Red Parent Mate	rial (F21) (M	LRA 127, 147)			d or problematic.		
							1			
Restrictive La	/er (if observed):									
Туре:	Rock									
Depth (inc	hes): 6						Hydric Soil Present	? Yes <u>No X</u>		
Remarks:										

Project/Site:	332-793 MA	M14 U1 Pipeline and W	/aterline	e City/County: Westmoreland County				Sampling Date:	September 28, 2023		
Applicant/Owner:	CNX Midstream Operating Company LLC State:					State:	PA	Sampling Point:	SP-24		
Investigator(s):		DWL, ARS		Se	ction, Township,	, Range:	Washington Township				
Landform (hillslope, terra	ce, etc.):	Depre	ssion	Local Re	lief (concave, con	vex, none):	,	Concave	Slope (%):		
Subregion (LRR or ML	₹A):	LRR N	L	at: 40.538335	Long:	-79.5	553241	53241 Datum: NAD83			
Soil Map Unit Name:		cta-Gilpin channery silt I	oams. 25 t				NWI class	sification:	N/A		
Are climatic/hydrologic Are Vegetation	conditions on No , Soil	the site typical for this t <u>No</u> , or Hydrolog	ime of yea gy <u>No</u>	r?	Yes <u>X</u> rbed? A	No .re "Normal Cir Yes	rcumstand X				
	<u>No</u> , Soil		Jy <u>no</u>		auc? (i	r needed, explai	n any answ	ers in Remarks.)			
SUMMARY OF FIN	DINGS - At	tach site map show	ving sam	pling point locat	ions, transec	ts, importar	nt featur	es, etc.			
Hydrophytic Vegetatior	Present?		Yes >	KNo							
Hydric Soil Present?			Yes		Is the Sampled	Yes	х	No			
Wetland Hydrology Pre	sent?		Yes 📝	KNo	within a Wetla		Wetland	14 - PUB			
Remarks: Wetland 14 is a PUB w	etland that is	located in a wide depre	ssion in a f	forested area.							
HYDROLOGY											
Wetland Hydrology Ir	dicators:						Second	lary Indicators (mini	mum of two required)		
Primary Indicators (minim	im of one is rec	uired; check all that apply)						Surface Soil Cracks	(B6)		
Surface Water (A1)			True Aqu	uatic Plants (B14)				- Sparsely Vegetated	Concave Surface (B8)		
High Water Table ((2)	x	Hydroge	n Sulfide Odor (C1)				Drainage Patterns (E	310)		
Saturation (A3)			Oxidized	Rhizospheres on Livin	g Roots (C3)			Moss Trim Lines (B1	6)		
Water Marks (B1)			Presence	e of Reduced Iron (C4)				Dry-Season Water T	able (C2)		
Sediment Deposits	(B2)		Recent I	ron Reduction in Tilled	Soils (C6)			Crayfish Burrows (Ca	8)		
Drift Deposits (B3)			Thin Mu	ck Surface (C7)				Saturation Visible on	Aerial Imagery (C9)		
Algal Mat or Crust (34)			xplain in Remarks)				- Stunted or Stressed	Plants (D1)		
Iron Deposits (B5)							х	Geomorphic Position	n (D2)		
Inundation Visible of	n Aerial Imager	y (B7)						- Shallow Aquitard (D3	3)		
Water-Stained Leav	es (B9)							- Mircotopographic Re	elief (D4)		
Aquatic Fauna (B13)						X	FAC-Neutral Test (D	5)		
Field Observations:											
Surface Water Present	? Yes	No	Х	Depth (inches):							
Water Table Present?	Yes		X	Depth (inches):		Wetland	d Hvdrold	ogy Present?			
Saturation Present?	Yes	No		Depth (inches):			х				
(includes capillary fring											
Describe Recorded Da	.a (stream ga	uge, monitoring well, ae	rial photos	s, previous inspection	s), if available:						
Remarks:											
The sample point was outside of the delineati		e edge of the wetland i	n an area v	where ponding was n	ot present at the	e time of survey	y. The por	nded portion of the	wetland was located		

VEGETATION (Five Strata) - Use scient	ific names o	of plants.		Sampling Point:	SP-24			
	Absolute	Dominant	Indicator	Dominance Test worksheet:				
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species				
1.	// 00101		Claido	That Are OBL, FACW, or FAC:	1 (A)			
	·				(/)			
				Total Number of Dominant				
4				Species Across All Strata:	1 (P)			
4 5.	·				<u>1</u> (B)			
	·		·	Demont of Demoissort Operation				
6			<u> </u>	Percent of Dominant Species	(A/D)			
7				That Are OBL, FACW, or FAC:	<u>100%</u> (A/B)			
		= Total Cover		Prevalence Index worksheet:				
Sapling Stratum: (Plot Size: 15)							
	·			Total % Cover of:	Multiply by:			
2	·			OBL species x 1 =				
3			<u> </u>	FACW species x 2 =				
4				FAC species x 3 =				
5				FACU species x 4 =				
6				UPL species x 5 =				
7				Column Totals: (A)	(B)			
	0	= Total Cover						
Shrub Stratum: (Plot Size: 15)			Prevalence Index = B/A =				
1								
2				Hydrophytic Vegetation Indicators:				
3				X 1 - Rapid Test for Hydrophytic Vegetati	on			
4.				X 2 - Dominance Test is >50%				
5.				3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting				
6.								
7.				data in Remarks or on a separate s	neet)			
	0	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)			
Herb Stratum: (Plot size: 5					1 /			
1. Ludwigia palustris		v	OBL	1				
o				¹ Indicators of hydric soil and wetland hydrolo be present, unless disturbed or problematic.	ogy must			
2	·			Definitions of Four Vegetation Strata:				
4.				-	7.0			
				Tree - Woody plants, excluding vines, 3 in. (more in diameter at breast height (DBH), reg				
5					-			
6				Sapling - Woody plants, excluding woody vii (6 m) or more in height and less than 3 in. (7				
7	·							
8				Shrub - Woody plants, excluding woody vine	s, aproximately 3 to 20			
9				ft (1 to 6 m) in height.				
10				Herb - All herbaceous (non-woody) plants, re				
11				of size, and woody plants less than 3.28 ft ta				
12				Woody Vines - All woody vines greater than	3.28 ft in height.			
	10	= Total Cover						
Woody Vine Stratum: (Plot size: 30)							
1								
2				Hydrophytic				
3.				Hydrophytic Vegetation				
4.				Present? Yes X	No			
5.								
	0	= Total Cover						
Remarks: (Include photo numbers here or on a se	parate sheet.)							
The herbaceous layer at the sampling point locatio	n is very spars	ely vegetated d	lue to frequent p	periods of ponding.				

Profile Desc	cription: (Describe to	the depth r	needed to docume	nt the indi	cator or cont	firm the ab	sence of indicators.)			
Depth						_				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	10YR 3/2	100					Loam	with organics		
6-16	2.5Y 2.5/1	100					Clay Loam			
							<u> </u>			
1										
	ncentration, D=Depletion,	RM=Reduce	d Matrix, MS=Masked	Sand Grain	IS.		² Location: PL= Pore I			
Hydric Soil In	dicators:							matic Hydric Soils ³ :		
Histosol (-	Dark Surface (S7)				2 cm Muck (A10) (MLRA 147)			
	ipedon (A2)	-	Polyvalue Below Surface (S8) (MLRA 147,148)				Coast Prairie Red			
Black His		-	Thin Dark Surface (S9) (MLRA147, 148)				(MLRA 147, 148)			
X Hydroger Stratified	Layers (A5)	-	Loamy Gleyed Matrix (F2)				Piedmont Floodplain Soils (F19)			
	ck (A10) (LRR N)	-	Depleted Matrix (F3) Redox Dark Surface (F6)				(MLRA 136, 147) Very Shallow Dark Surface (TF12)			
	Below Dark Surface (A11)	Depleted Dark Surface (F7)				Other (Explain in			
	rk Surface (A12)	,	Redox Depressions (F8)					,		
Sandy Mu	ucky Mineral (S1) (LRR N ,	-	Iron-Manganese	Masses (F1	2) (LRR N,					
MLRA	147, 148)		MLRA 136)	MLRA 136)						
	leyed Matrix (S4)	-	Umbric Surface (F13) (MLRA 136, 122)				³ Indicators of hydrophytic vegetation and			
Sandy Re		-	Piedmont Floodplain Soils (F19) (MLRA 148)				wetland hydrology must be present,			
Stripped Matrix (S6)			Red Parent Material (F21) (MLRA 127, 147)				unless disturbed or problematic.			
Restrictive La	ayer (if observed):									
Туре:										
Depth (in	ches):						Hydric Soil Present? Yes X No			
Doput (iii										
Remarks:										

Project/Site:	332-793 MA	M14 U1 Pipeline and W	aterline	City/County:	Westmorelan	d County		Sampling Date:	September 28, 2023	
Applicant/Owner:		CNX Midstream	Operating Corr	ipany LLC		State:	PA	Sampling Point:	SP-25	
Investigator(s):		DWL, ARS		Section, Township, Range:		Washington		Township		
Landform (hillslope, te	rrace, etc.):	Mou	nd	Local Re	nvex, none):					
Subregion (LRR or M	ILRA):	LRR N	Lat:	40.538235	Long:	79.	553351	Datum:	NAD83	
Soil Map Unit Name:	Bethe	sda very channery silt lo	am, 8 to 25 pe				NWI class	ification:	N/A	
		the site typical for this ti		•	Yes X			plain in Remarks.)		
Are Vegetation		<u>No</u> , or Hydrolog	-	ignificantly distur		Are "Normal Ci Yes		es" present?		
Are Vegetation	<u>No</u> , Soil	<u>No</u> , or Hydrolog	y <u>No</u> r	naturally problem	atic? (-	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetati	on Present?		Yes	No X						
Hydric Soil Present?			Yes	No <u>X</u>	Is the Sampled	d Area Yes		No <u>X</u>		
Wetland Hydrology F	Present?		Yes	No <u>X</u>	within a Wetl		Upl	and		
Remarks: Upland sampling point adjacent to Wetland 14, located on a mound in a forested area.										
HYDROLOGY										
Wetland Hydrology	Indicators:						Second	ary Indicators (mini	mum of two required)	
Primary Indicators (mini	mum of one is rec	uired; check all that apply)						Surface Soil Cracks (B6)		
Surface Water (A	.1)	True Aquatic Plants (B14)						Sparsely Vegetated Concave Surface (B8)		
High Water Table	e (A2)	Hydrogen Sulfide Odor (C1)						Drainage Patterns (B10)		
Saturation (A3)		Oxidized Rhizospheres on Living Roots (C3)						Moss Trim Lines (B16)		
Water Marks (B1)	Presence of Reduced Iron (C4)						Dry-Season Water Table (C2)		
Sediment Deposi	s (B2) Recent Iron Reduction in Tilled Soils (C6)							Crayfish Burrows (C8)		
Drift Deposits (B3	osits (B3) Thin Muck Surface (C7)							Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)Other (Explain in Remarks)							Stunted or Stressed Plants (D1)			
Iron Deposits (B5								Geomorphic Position (D2)		
Inundation Visible	-	y (B7)						Shallow Aquitard (D3)		
Water-Stained Leaves (B9)							Mircotopographic Relief (D4)			
Aquatic Fauna (B13)							FAC-Neutral Test (D5)			
Field Observations										
Surface Water Prese	nt? Yes	No	X C	Depth (inches):						
Water Table Present	? Yes			Depth (inches):		Wetlan	d Hydrolo	gy Present?		
Saturation Present? (includes capillary fri	Yes	No	<u>х </u> с	Depth (inches):		Yes		No <u>X</u>		
Describe Recorded I	Data (stream ga	uge, monitoring well, ae	rial photos, pre	vious inspection	s), if available:					
Remarks:										

Sampling Point:	
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SP-25

FACU FACU FACU FACU FACU FACU FACU FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 4 Total Number of Dominant Species Across All Strata: 10 Percent of Dominant Species That Are OBL, FACW, or FAC: 40% 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) Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
FACU FACU FACU FACU FACU FACU FACU	That Are OBL, FACW, or FAC: 4 (A Total Number of Dominant Species Across All Strata: 10 (B Percent of Dominant Species That Are OBL, FACW, or FAC: 40% (A Prevalence Index worksheet: 40% (A OBL species x 1 = (A) (A) Prevalence Index worksheet: Multiply by: (A) (A) OBL species x 2 = (A) (A) FACW species x 3 = (A) (B) FACU species x 5 = (C) (B) Prevalence Index = B/A = (A) (B) (B) Prevalence Index is >50% (C) (C) (C) (C) Multiply to Vegetation Indicators: (C) (C) (C) (C) Multiply to Vegetation Indicators: (C) (C) (C) (C) Multiply to Vegetation Indicators: (C) (C) (C)
FACU FACU FACU FACU FACU FACU	Total Number of Dominant Species Across All Strata: 10 (B Percent of Dominant Species That Are OBL, FACW, or FAC: 40% (A Prevalence Index worksheet:
FACU FACU FACU FACU FACU	Species Across All Strata: 10 (B Percent of Dominant Species That Are OBL, FACW, or FAC: 40% (A Prevalence Index worksheet:
FACU FACU FAC UPL FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 40% (A 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) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)
FACU FACU FAC UPL FACU	That Are OBL, FACW, or FAC: 40% (A Prevalence Index worksheet:
FACU FACU FAC UPL FACU	That Are OBL, FACW, or FAC: 40% (A Prevalence Index worksheet:
FACU FACU FAC UPL FACU	That Are OBL, FACW, or FAC: 40% (A Prevalence Index worksheet:
FACU FACU FAC UPL FACU	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) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
FACU FACU FAC UPL FACU	Total % Cover of:Multiply by:OBL speciesx 1 =FACW speciesx 2 =FAC speciesx 3 =FACU speciesx 4 =UPL speciesx 5 =Column Totals:(A)Prevalence Index = $B/A =$ Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
FACU FACU FAC UPL FACU	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 Index = B/A =
FACU FACU FAC UPL FACU	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 Index = B/A =
FACU FACU FAC UPL FACU	FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) (B Prevalence Index = B/A =
FACU FACU FAC UPL FACU	FAC species x $3 =$ FACU species x $4 =$ UPL species x $5 =$ Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
FACU FACU FAC UPL FACU	FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = $B/A =$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
FACU FACU FAC UPL FACU	UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = (B) Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
FACU FAC UPL FACU	Column Totals: (A) (B) Prevalence Index = B/A = (B) Hydrophytic Vegetation Indicators: (A) 1 - Rapid Test for Hydrophytic Vegetation (A) 2 - Dominance Test is >50% (A) 3 - Prevalence Index is ≤3.0 ¹ (Provide supporting data in Remarks or on a separate sheet)
FACU FAC UPL FACU	Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
FACU FAC UPL FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)
FACU FAC UPL FACU	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)
FACU FAC UPL FACU	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)
FAC UPL FACU	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)
UPL FACU	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
FACU	3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation ¹ (Explain)
UPL	1
UPL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
FAC	Definitions of Four Vegetation Strata:
FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
	more in diameter at breast height (DBH), regardless of height.
	Sapling - Woody plants, excluding woody vines, aproximately 20
	(6 m) or more in height and less than 3 in. (7.6 cm) DBH.
	Shrub - Woody plants, excluding woody vines, aproximately 3 to
	ft (1 to 6 m) in height.
	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.
FAC	
	Hydrophytic
	Vegetation Present? Yes <u>No X</u>
<u> </u>	
	FAC

Depth (inches)	Matrix Color (moist)	%	Color (moist)	Redox Fea	Type ¹	Loc ²	Texture	Remarks		
		·		70	Турс	LOC				
0-4	N 3/	100					Silt Loam	with gravel		
4-16	10YR 6/3	100			·		Silt Loam	with gravel		
		<u> </u>								
		- <u> </u>								
							2	· • • • • • • • • • • • • • • • • • • •		
	centration, D=Depletion, F	RM=Reduce	ed Matrix, MS=Masked	Sand Grain	S.		² Location: PL= Pore Lin			
Iric Soil Inc				-			Indicators for Problem	-		
Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA						49)	2 cm Muck (A10) (
Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147,148) Black Histic (A3) Thin Dark Surface (S9) (MLRA147, 148)						48)	Coast Prairie Redo	X (A16)		
Black Histic (A3) Thin Dark Surface (S9) (MLRA147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)							(MLRA 147, 148) Piedmont Floodplai	n Soile (F19)		
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3)							Piedmont Floodplain Soils (F19) (MLRA 136, 147)			
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6)						Very Shallow Dark	Surface (TE12)			
-	Below Dark Surface (A11)						Other (Explain in R			
-	Surface (A12)	,	Redox Depression)		
-	cky Mineral (S1) (LRR N,		Iron-Manganese		2) (LRR N,					
MLRA 1	47, 148)		MLRA 136)							
	yed Matrix (S4)		Umbric Surface ((F13) (MLRA	136, 122)		³ Indicators of hydrophy	tic vegetation and		
Sandy Red	dox (S5)		Piedmont Floodp	olain Soils (F	19) (MLRA 148)	wetland hydrology m	iust be present,		
Stripped N	latrix (S6)		Red Parent Mate	erial (F21) (N	ILRA 127, 147)		unless disturbed o	r problematic.		
strictive Lay	ver (if observed):									
Type:										
Depth (inc	hes):						Hydric Soil Present?	Yes <u>No X</u>		
marks:										

Project/Site: 332-793	MAM14 U1 Pipeline and Waterline	City/County:	Westmoreland	County		Sampling Date:	September 28, 2023
Applicant/Owner:	CNX Midstream Operating C	ompany LLC		State:	PA	Sampling Point:	SP-26
Investigator(s):	DWL, ARS	Se	ction, Township, F	Range:		Washington	Township
Landform (hillslope, terrace, etc.):	Depression	Local Re	lief (concave, conve	x, none):	C	Concave	Slope (%):
Subregion (LRR or MLRA):	LRR N Lat	40.535737	Long:	-79.5	45234	Datum:	NAD83
	pin channery silt loam, 3 to 8 percent sl				WI class	fication:	N/A
	on the site typical for this time of year?		Yes X	No		blain in Remarks.)	
	oil <u>No</u> , or Hydrology <u>No</u>			e "Normal Circ Yes			
Are Vegetation <u>No</u> , S	oil <u>No</u> , or Hydrology <u>No</u>	_naturally problem	atic? (If r			ers in Remarks.)	
SUMMARY OF FINDINGS -	Attach site map showing samp	ling point locat	ions, transects	, importan	t feature	es, etc.	
Hydrophytic Vegetation Present?	Yes X	No					
Hydric Soil Present?	Yes X	No	Is the Sampled A	Yes	X	No	
Wetland Hydrology Present?	Yes <u>X</u>	No	within a Wetlan		Wetland ?	15 - PEM	
Remarks:			•				
Wetland 15 is a PEM wetland that	it is located in a fenced off depression a	indiacent to a recent	ly constructed wel	lpad			
				rpuu.			
HYDROLOGY							
Wetland Hydrology Indicators:					Seconda	ary Indicators (mini	mum of two required)
Primary Indicators (minimum of one is	required; check all that apply)					Surface Soil Cracks	(B6)
Surface Water (A1)	True Aqua	tic Plants (B14)				Sparsely Vegetated	Concave Surface (B8)
High Water Table (A2)	Hydrogen	Sulfide Odor (C1)				Drainage Patterns (E	310)
Saturation (A3)	X Oxidized R	hizospheres on Living	g Roots (C3)			Moss Trim Lines (B1	6)
Water Marks (B1)	Presence	of Reduced Iron (C4)				Dry-Season Water T	able (C2)
Sediment Deposits (B2)	Recent Iro	n Reduction in Tilled	Soils (C6)			Crayfish Burrows (C	3)
Drift Deposits (B3)	Thin Muck	Surface (C7)				Saturation Visible on	Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Exp	olain in Remarks)				Stunted or Stressed	Plants (D1)
Iron Deposits (B5)						Geomorphic Position	i (D2)
Inundation Visible on Aerial Ima	agery (B7)					Shallow Aquitard (D3	3)
Water-Stained Leaves (B9)						Mircotopographic Re	lief (D4)
Aquatic Fauna (B13)					х	FAC-Neutral Test (D	5)
Field Observations:							
Surface Water Present? Ye	s No <u>X</u>	Depth (inches):					
Water Table Present? Ye	s <u>No X</u>	Depth (inches):		Wetland	Hydrolo	gy Present?	
Saturation Present? Ye	s NoX	Depth (inches):		Yes	Х	No	
(includes capillary fringe)		araviava inanastian					
Describe Recorded Data (stream	gauge, monitoring well, aerial photos, p	previous inspection	s), il avaliadie:				
Remarks:							

VEGETATION (Five Strata) - Use scien	tific names of	of plants.		Sampling Point: SP-26	
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species	
, 1.					(A)
2.					. ,
2				Total Number of Dominant	
4				Species Across All Strata: 3	(B)
5.				· · · · · · · · · · · · · · · · · · ·	. ,
6.				Percent of Dominant Species	
7				That Are OBL, FACW, or FAC: 100% ((A/B)
		= Total Cover			. ,
Sapling Stratum: (Plot Size: 15				Prevalence Index worksheet:	
1				Total % Cover of: Multiply by:	
2.				OBL species x 1 =	
3.				FACW species x 2 =	
4.				FAC species x 3 =	
5.				FACU species x 4 =	
6.				UPL species x 5 =	
7.					(B)
	0	= Total Cover		()	()
Shrub Stratum: (Plot Size: 15				Prevalence Index = B/A =	
1	_^				
2				Hydrophytic Vegetation Indicators:	
3.				X 1 - Rapid Test for Hydrophytic Vegetation	
4				X 2 - Dominance Test is >50%	
5				3 - Prevalence Index is ≤3.0 ¹	
e				4 - Morphological Adaptations ¹ (Provide supporting	
7.				data in Remarks or on a separate sheet)	
	0	= Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)	
Herb Stratum: (Plot size: 5)				
1. Juncus effusus	20	Y	FACW	¹ Indicators of hydric soil and wetland hydrology must	
2. Scirpus polyphyllus	10	N	OBL	be present, unless disturbed or problematic.	
3. Microstegium vimineum	10	N	FAC	Definitions of Four Vegetation Strata:	
4. Eleocharis obtusa	5	N	OBL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or	
5. Juncus tenuis	5	N	FAC	more in diameter at breast height (DBH), regardless of height.	
6. Scirpus atrovirens	5	N	OBL	Sapling - Woody plants, excluding woody vines, aproximately	20 ft
7. Carex vulpinoidea	20	Y	OBL	(6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
8. Persicaria saqittata	25	Y	OBL	Shrub - Woody plants, excluding woody vines, aproximately 3	to 20
9.				ft (1 to 6 m) in height.	
10				Herb - All herbaceous (non-woody) plants, regardless	
11.				of size, and woody plants less than 3.28 ft tall.	
12.				Woody Vines - All woody vines greater than 3.28 ft in height.	
	100	= Total Cover			
Woody Vine Stratum: (Plot size: 30					
1	/				
				Hydrophytic	
3 4				Vegetation Present? Yes X No	
5.					
	0	= Total Cover			
Remarks: (Include photo numbers here or on a s	eparate sheet)			1	

(inches)	Matrix Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR 4/2	95	7.5YR 4/6	5	С	PL/M	Clay Loam		
3-16	10YR 5/6	70	10YR 4/2	20	D	М	Clay		
	101110,0		7.5YR 5/8	10	C	M			
			7.511 5/6	10					
		·							
	entration, D=Depletion, F	RM=Reduc	ed Matrix, MS=Masked	Sand Grain	S.		² Location: PL= Pore Lin	ing, M=Matrix.	
lydric Soil Ind							Indicators for Problem	-	
Histosol (A1) Dark Surface (S7) Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147,148)							2 cm Muck (A10) (
Histic Epipe Black Histic			Thin Dark Surface			148)	Coast Prairie Redo	X (A16)	
	Sulfide (A4)		Loamy Gleyed Ma		A147, 140)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)		
Stratified La			X Depleted Matrix (I				(MLRA 136, 147)		
	(A10) (LRR N)		Redox Dark Surfa	,			Very Shallow Dark	Surface (TF12)	
	elow Dark Surface (A11))	Depleted Dark Su				Other (Explain in R		
	Surface (A12)		Redox Depressio				、 .		
Sandy Muc	ky Mineral (S1) (LRR N,		Iron-Manganese	Masses (F1	2) (LRR N,				
MLRA 1	47, 148)		MLRA 136)						
Sandy Gley	ved Matrix (S4)		Umbric Surface (I	F13) (MLRA	136, 122)		³ Indicators of hydrophy	tic vegetation and	
Sandy Red	ox (S5)		Piedmont Floodp			-	wetland hydrology m	nust be present,	
Stripped Ma	atrix (S6)		Red Parent Mate	rial (F21) (M	ILRA 127, 147)	unless disturbed o	r problematic.	
Restrictive Lay	er (if observed):								
Type:	. ,								
Depth (inch	nes):						Hydric Soil Present?	Yes X No	
-1 - 1 -									
Remarks:							4		
Soils at SP-26 a	ire disturbed.								

Project/Site:	332-793 MA	M14 U1 Pipeline and W	/aterline	City/County:	Westmorelar	nd County		Sampling Date:	September 28, 2023
Applicant/Owner:		CNX Midstream	Operating Com	ipany LLC		State:	PA	Sampling Point:	SP-27
Investigator(s):		DWL, ARS		Se	ction, Township	o, Range:		Washington -	Township
Landform (hillslope, te	rrace, etc.):	Hills	оре	Local Re	lief (concave, co	nvex, none):		None	Slope (%):
Subregion (LRR or N	ILRA):	LRR N	Lat:	40.535808	Long:	-79.	545178	Datum:	NAD83
Soil Map Unit Name:	Gilpin	channery silt loam, 3 to	8 percent slop				NWI class	ification:	N/A
		the site typical for this t			Yes X	No		plain in Remarks.)	
Are Vegetation	<u>No</u> , Soil	<u>No</u> , or Hydrolog	-	ignificantly distu		Are "Normal Ci Yes		es" present?	
Are Vegetation	<u>No</u> , Soil	<u>No</u> , or Hydrolog	gy <u>No</u> n	aturally problem	atic?	(If needed, explai			
SUMMARY OF FI	NDINGS - At	tach site map show	ving samplin	ng point locat	ions, transe	cts, importa	nt featur	es, etc.	
Hydrophytic Vegetati	on Present?		Yes	No <u>X</u>					
Hydric Soil Present?			Yes	No <u>X</u>	Is the Sample	d Area Yes		No <u>X</u>	
Wetland Hydrology F	Present?		Yes	No <u>X</u>	within a Wet		Upl	and	
Remarks: Upland sampling poir	nt adjacent to W	'etland 15, located in a	recently seeded	d area next to a	recently constru	ucted well pad.			
HYDROLOGY									
Wetland Hydrology	Indicators:						<u>Second</u>	ary Indicators (mini	imum of two required)
Primary Indicators (mini	mum of one is rec	uired; check all that apply)						Surface Soil Cracks	(B6)
Surface Water (A	.1)		True Aquatic	Plants (B14)				Sparsely Vegetated	Concave Surface (B8)
High Water Table	e (A2)		Hydrogen Sul	fide Odor (C1)				Drainage Patterns (E	310)
Saturation (A3)			Oxidized Rhiz	ospheres on Living	g Roots (C3)			Moss Trim Lines (B1	6)
Water Marks (B1)		Presence of F	Reduced Iron (C4)				Dry-Season Water T	able (C2)
Sediment Deposi	ts (B2)		Recent Iron R	Reduction in Tilled	Soils (C6)			Crayfish Burrows (Ca	8)
Drift Deposits (B3	3)		Thin Muck Su	Irface (C7)				Saturation Visible on	Aerial Imagery (C9)
Algal Mat or Crus	t (B4)		Other (Explain	n in Remarks)				Stunted or Stressed	Plants (D1)
Iron Deposits (B5)							Geomorphic Position	n (D2)
Inundation Visible	-	y (B7)						Shallow Aquitard (D3	3)
Water-Stained Le	aves (B9)							Mircotopographic Re	
Aquatic Fauna (B	13)							FAC-Neutral Test (D	5)
Field Observations:									
Surface Water Prese	nt? Yes	No	X D	Depth (inches):					
Water Table Present		No		Depth (inches):		Wetlan	d Hydrolo	ogy Present?	
Saturation Present?	Yes	No	<u>x c</u>	Depth (inches):		Yes		No <u>X</u>	
(includes capillary frin		uge, monitoring well, ae	rial photos pre	vious inspection	s) if available:				
	Jata (Sircani ga	age, monitoring weil, ac	nai priotos, pro		3), ii availabic.				
Demontos									
Remarks:									

VEGETATION (Five Strata) - Use scient	ific names	of plants.		Sampling Point:	SP-27
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species	
1.	/0 00101		Oldido	That Are OBL, FACW, or FAC:	1 (A)
					(/)
				Total Number of Dominant	
4		· ·		Species Across All Strata:	2 (B)
		· <u> </u>			(D)
		· ·		Dereent of Deminent Species	
6 7.		· ·		Percent of Dominant Species	500/ (A/F
/		Tatal Cause		That Are OBL, FACW, or FAC:	<u>50%</u> (A/E
		= Total Cover		Prevalence Index worksheet:	
Sapling Stratum: (Plot Size: 15)				
		· ·		Total % Cover of:	Multiply by:
2.		· ·		OBL species x 1 =	
3		· ·		FACW species x 2 =	
4	·			FAC species x 3 =	
5	·			FACU speciesx 4 =	
6				UPL species x 5 =	
7				Column Totals: (A)	(B)
	0	= Total Cover			
Shrub Stratum: (Plot Size: 15)			Prevalence Index = B/A =	
1					
2				Hydrophytic Vegetation Indicators:	
3				1 - Rapid Test for Hydrophytic Vegetat	ion
4				2 - Dominance Test is >50%	
5				3 - Prevalence Index is ≤3.0 ¹	
6				4 - Morphological Adaptations ¹ (Provid	
7.				data in Remarks or on a separate s	heet)
	0	= Total Cover		Problematic Hydrophytic Vegetation ¹	(Explain)
Herb Stratum: (Plot size: 5)				
1. Lolium perenne	10	Ν	FACU	¹ Indicators of hydric soil and wetland hydrol	oav must
	25	Y	FAC	be present, unless disturbed or problematic.	
3. Trifolium pratense	25	Y	FACU	Definitions of Four Vegetation Strata:	
4. Persicaria longiseta	10	N	FAC	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), reg	ardless of height.
6.		· ·		Sapling - Woody plants, excluding woody vi	ines, aproximately 20 f
7.		· <u> </u>		(6 m) or more in height and less than 3 in. (7	
8.		· ·		Shrub - Woody plants, excluding woody vin	es aproximately 3 to 2
		· ·		ft (1 to 6 m) in height.	
9				Herb - All herbaceous (non-woody) plants, r	egardless
10		· ·		of size, and woody plants less than 3.28 ft ta	
11				Woody Vines - All woody vines greater than	3 28 ft in height
12		= Total Cover		The woody vines greater that	. c.zo it in noight.
Woody Vine Stratum: (Plat size: 20	-				
Woody Vine Stratum: (Plot size: 30					
1					
2				Hydrophytic	
3.				Vegetation	
4		· ·		Present? Yes	No <u>X</u>
5		Total Cause			
		= rotal Cover			
Remarks: (Include photo numbers here or on a se	0 parate sheet.)	= Total Cover		cent seeding of the area.	
mere to some pare ground and wood chips preser	n ai ine sampli	ng point iocatioi		Jen seeung of the area.	

Depth	iption: (Describe to t Matrix	•		Redox Feat	ures					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
· · ·					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	200	· ·	Romano		
0-6	10YR 4/2	100					Silt Loam			
							·			
							·			
					<u> </u>					
					<u> </u>					
pe: C=Con	centration, D=Depletion,	RM=Reduced	d Matrix, MS=Masked	Sand Grain	S.		² Location: PL= Pore Lin	ing, M=Matrix.		
dric Soil Inc	licators:						Indicators for Problem			
Histosol (A1)			Dark Surface (S7)			2 cm Muck (A10) (-		
Histic Epipedon (A2)			Polyvalue Below) (MLRA 147,1	Coast Prairie Redo				
Black Histic (A3)			Thin Dark Surface	e (S9) (MLR	A147, 148)	(MLRA 147, 148)				
	Sulfide (A4)	_	Loamy Gleyed Ma	atrix (F2)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)				
Stratified Layers (A5)			Depleted Matrix (I	-3)			(MLRA 136, 147)			
2 cm Muck (A10) (LRR N)			Redox Dark Surfa	ice (F6)			Very Shallow Dark	Surface (TF12)		
Depleted Below Dark Surface (A11)			Depleted Dark Su	rface (F7)			Other (Explain in R	emarks)		
_	s Surface (A12)	-	Redox Depressio							
Sandy Mu	cky Mineral (S1) (LRR N ,	· _	Iron-Manganese	Masses (F1	2) (LRR N,					
	147, 148)		MLRA 136)				<u>,</u>			
	yed Matrix (S4)	_	Umbric Surface (I		-	_	³ Indicators of hydrophy	-		
Sandy Red		-	Piedmont Floodpl			wetland hydrology must be present, unless disturbed or problematic.				
Stripped N	iatrix (56)	-	Red Parent Mater	iai (F21) (IV	LRA 127, 147)		uniess disturbed o	r problematic.		
etrictive La	ver (if observed):									
Type:	Rock									
		<u> </u>					Hudria Sail Dracant?			
Depth (inc	hes): 6						Hydric Soil Present?	Yes <u>No X</u>		
marks:										

WETLAND DETERMINATION DATA S	U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R						
Project/Site: 323-134 MAM Well Site		City/County: Orchard Hills,	Armstrong Sampling Date: 11/01/2				
Applicant/Owner: CNX Gas Company, LI	LC		State: PA Sampling Point: SP-2				
Investigator(s): DAS, ZAF		Section, Township, Range: Bel					
Landform (hillside, terrace, etc.): terrace	10	ocal relief (concave, convex, none	·				
Subregion (LRR or MLRA): LRR N	Lat: 40.536272	Long: -79.54					
Soil Map Unit Name: WrB: Wharton silt loam			NWI classification: None				
Are climatic / hydrologic conditions on the site	· · · ·	ır? Yes X I	No (If no, explain in Remarks.)				
Are Vegetation No , Soil No , or Hydro							
			·				
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydro			any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach	site map showing s	ampling point locations,	transects, important features, etc.				
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area					
Hydric Soil Present?	Yes No X	within a Wetland?	Yes No_X_				
Wetland Hydrology Present?	Yes No X						
HYDROLOGY							
		0					
Wetland Hydrology Indicators: Primary Indicators (minimum of one is require	ed: check all that apply)	<u>260</u>	condary Indicators (minimum of two required) Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Patterns (B10)				
Saturation (A3)	Oxidized Rhizosphe	res on Living Roots (C3)	Moss Trim Lines (B16)				
Water Marks (B1)	Presence of Reduce	d Iron (C4)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)		Geomorphic Position (D2) Shallow Aquitard (D3)				
Water-Stained Leaves (B9))		Microtopographic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral Test (D5)				
Field Observations:			-				
Surface Water Present? Yes	No X Depth (inch	nes):					
	No X Depth (incl						
	No X Depth (inch	mes): Wetland Hydr	ology Present? Yes <u>No</u>				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	nitoring well, parial photos	previous inspections), if available	o.				
Describe Recorded Data (stream gauge, mo	rittoring weil, aeriai priotos	, previous inspections), il availabl	σ.				
Remarks:							

Sampling Point: SP-28

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer rubrum	25	Yes	FAC	Number of Dominant Species
2. Quercus alba	10	Yes	FACU	That Are OBL, FACW, or FAC: <u>3</u> (A)
3. Quercus rubra	10	Yes	FACU	Total Number of Dominant
4. Fagus grandifolia	8	No	FACU	Species Across All Strata: 7 (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 42.9% (A/B)
7	_			Prevalence Index worksheet:
	53	=Total Cover		Total % Cover of: Multiply by:
50% of total cover:	27 20%	of total cover:	11	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15' R)			FACW species 0 x 2 = 0
1. Acer rubrum	10	Yes	FAC	FAC species 45 x 3 = 135
2. Rosa multiflora	10	Yes	FACU	FACU species 55 x 4 = 220
3. Rubus allegheniensis	4	No	FACU	UPL species 0 x 5 = 0
4. Quercus rubra	4	No	FACU	Column Totals: 100 (A) 355 (B)
5. Fagus grandifolia	4	No	FACU	$\frac{1}{2} \frac{1}{2} \frac{1}$
6.		110	17,00	Hydrophytic Vegetation Indicators:
7		·		1 - Rapid Test for Hydrophytic Vegetation
8.		<u> </u>		2 - Dominance Test is >50%
9				3 - Prevalence Index is $\leq 3.0^1$
	32	=Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:	16 20%	of total cover:	7	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' R)				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Microstegium	35	Yes		¹ Indicators of hydric soil and wetland hydrology must be
2. Arthraxon hispidus	10	Yes	FAC	present, unless disturbed or problematic.
3. Solidago canadensis	5	No	FACU	Definitions of Four Vegetation Strata:
4.	_			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5.				more in diameter at breast height (DBH), regardless of
6.				height.
7.	_			Sapling/Shrub – Woody plants, excluding vines, less
8.	_			than 3 in. DBH and greater than or equal to 3.28 ft (1
9.				m) tall.
10.				Herb – All herbaceous (non-woody) plants, regardless of
11.				size, and woody plants less than 3.28 ft tall.
	50	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover:		of total cover:	10	height.
Woody Vine Stratum (Plot size: 15' R)	23 2070		10	
· · · · · · · · · · · · · · · · · · ·				
1. None				
2.		<u> </u>		
3				
4				
5				Hydrophytic
		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes No X
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			1

Depth	Matrix		Redo	x Featur	es			
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	re Remarks
0-2	10YR 2/2	100					Loamy/C	Clayey
0.40								
2-16	10YR 5/4	100					Loamy/C	layey
	ncentration, D=Deple	etion, RM=I	Reduced Matrix, MS	S=Maske	ed Sand G	Grains.	:	² Location: PL=Pore Lining, M=Matrix.
lydric Soil I	ndicators:							Indicators for Problematic Hydric Soil
Histosol	(A1)		Polyvalue Be	low Sur	face (S8)	(MLRA 1	47, 148)	2 cm Muck (A10) (MLRA 147)
Histic Ep	ipedon (A2)		Thin Dark Su	rface (S	9) (MLR A	A 147, 14	B)	Coast Prairie Redox (A16)
Black His	stic (A3)		Loamy Muck	y Minera	al (F1) (M I	LRA 136)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix	: (F2)			Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface	(F6)			Red Parent Material (F21)
Depleted	Below Dark Surface	(A11)	Depleted Da	rk Surfa	ce (F7)			(outside MLRA 127, 147, 148)
Thick Da	rk Surface (A12)		Redox Depre	essions ((F8)			Very Shallow Dark Surface (F22)
Sandy M	ucky Mineral (S1)		Iron-Mangan	ese Mas	ses (F12) (LRR N,	,	Other (Explain in Remarks)
Sandy G	leyed Matrix (S4)		MLRA 136	i)				
Sandy R	edox (S5)		Umbric Surfa	ice (F13) (MLRA	122, 136)		³ Indicators of hydrophytic vegetation and
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F1	9) (MLRA	148)	wetland hydrology must be present,
Dark Sur	face (S7)		Red Parent N	/laterial	(F21) (ML	.RA 127,	147, 148)	unless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:	non	е						
Depth (in	ches):						Hvdric Se	oil Present? Yes No X

Soil Texture:

U.S. Army WETLAND DETERMINATION DATA SH See ERDC/EL TR-07-24; th		ains and Piedmont Region	OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: 323-134 MAM Well Site		City/County: Orchard Hills,	Armstrong Sampling Date: 11/01/2022
Applicant/Owner: CNX Gas Company, LLC	C		State: PA Sampling Point: SP-29
Investigator(s): DAS, ZAF		Section, Township, Range: Bel	
Landform (hillside, terrace, etc.): terrace		cal relief (concave, convex, none)	
Subregion (LRR or MLRA): LRR N	Lat: 40.536079	Long: -79.54	
Soil Map Unit Name: WrB: Wharton silt loam,	3 to 8 percent slopes		NWI classification: None
Are climatic / hydrologic conditions on the site ty	pical for this time of year?		No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrolo	ogy <u>No</u> significantly dis	sturbed? Are "Normal Circum	nstances" present? Yes X No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrolo	ogy <u>No</u> naturally proble	ematic? (If needed, explain	any answers in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing s	ampling point locations,	transects, important features, etc.
Hydric Soil Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland?	Yes X No
HYDROLOGY			
Wetland Hydrology Indicators:		Sec	condary Indicators (minimum of two required)
Primary Indicators (minimum of one is required	; check all that apply)		Surface Soil Cracks (B6)
X Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Patterns (B10)
Saturation (A3)	X Oxidized Rhizosphere		Moss Trim Lines (B16)
Water Marks (B1)	Presence of Reduced Recent Iron Reductio	. ,	Dry-Season Water Table (C2) Crayfish Burrows (C8)
Sediment Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (C	. ,	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rer		Stunted or Stressed Plants (D1)
Iron Deposits (B5)			Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		X	Shallow Aquitard (D3)
Water-Stained Leaves (B9)			Microtopographic Relief (D4)
Aquatic Fauna (B13)		<u></u> X	FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes X	No Depth (inch		
Water Table Present? Yes		es):	
Saturation Present? Yes	No X Depth (inch	es): Wetland Hydr	ology Present? Yes X No
(includes capillary fringe)	toring well porial photon	provious inspections), if evolutions	
Describe Recorded Data (stream gauge, moni	toning well, aerial protos, j	previous inspections), il available.	
Remarks:			
Standing water in one pooled area			

Sampling Point: SP-29

Tree Stratum (Plot size: 30' R) 1. none	% Cover	Species?	Status	Dominance Test worksheet: Number of Dominant Species
2 3				Number of Dominant Species
				That Are OBL, FACW, or FAC:3 (A)
4.				Total Number of Dominant Species Across All Strata: 3 (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
50% of total cover:	20%	of total cover:		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' R)				FACW species x 2 =
1. none				FAC species x 3 =
2.				FACU species x 4 =
3.				UPL species x 5 =
4.				Column Totals: (A) (B)
5.				Prevalence Index = B/A =
6.				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
8.				X 2 - Dominance Test is >50%
9.				3 - Prevalence Index is ≤3.0 ¹
		=Total Cover		4 - Morphological Adaptations ¹ (Provide supporting
50% of total cover:	20%	of total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' R)				Problematic Hydrophytic Vegetation ¹ (Explain)
1. Scirpus atrovirens	25	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be
2. Microstegium vimineum	20	Yes	FAC	present, unless disturbed or problematic.
3. Carex lurida	15	Yes	OBL	Definitions of Four Vegetation Strata:
4. Juncus effusus	12	No	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Arthraxon hispidus	10	No	FAC	more in diameter at breast height (DBH), regardless of
6. Epilobium leptophyllum	5	No	OBL	height.
7. Poa palustris	5	No	FACW	Sapling/Shrub – Woody plants, excluding vines, less
8				than 3 in. DBH and greater than or equal to 3.28 ft (1
9				m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	92 =	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 46	20%	of total cover:	19	height.
Woody Vine Stratum (Plot size: 15' R)				
1. None				
2.				
3.				
4.				
5.				
		=Total Cover		Hydrophytic
50% of total cover:		of total cover:		Vegetation Present? Yes X No
	20 /8			

Depth	Matrix	-	Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textur	е	Remarks
0-6	10YR 4/1	90	5Y 4/4	10	С	PL/M	Loamy/Cl	ayey	Prominent redox concentration
Type: C=C	Concentration, D=Deple	etion. RM=	Reduced Matrix. M		d Sand 0	Grains.	2	Location: PL	_=Pore Lining, M=Matrix.
	Indicators:	,	· · · · · · · · · · · · · · · · · · ·						rs for Problematic Hydric Soil
Histoso			Polyvalue Be	elow Surf	ace (S8)	(MLRA 14	47, 148)		Muck (A10) (MLRA 147)
	pipedon (A2)		Thin Dark Su						t Prairie Redox (A16)
	listic (A3)		Loamy Muck						LRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			,		•	mont Floodplain Soils (F19)
_ · ·	d Layers (A5)		X Depleted Ma		()				LRA 136, 147)
	uck (A10) (LRR N)		Redox Dark	. ,	(F6)			•	Parent Material (F21)
	ed Below Dark Surface	(A11)	Depleted Da		. ,				utside MLRA 127, 147, 148)
·	ark Surface (A12)	()	Redox Depre		. ,			•	Shallow Dark Surface (F22)
	Mucky Mineral (S1)		Iron-Mangar	```	,) (LRR N.			r (Explain in Remarks)
	Gleved Matrix (S4)		MLRA 13			, (,			· (
	Redox (S5)		Umbric Surfa	•		122, 136)		³ Indicator	s of hydrophytic vegetation and
	d Matrix (S6)		Piedmont Flo						and hydrology must be present,
	urface (S7)		Red Parent I	•	•	<i>,</i> .	•		ss disturbed or problematic.
Restrictive	Layer (if observed):								
	rocl	k							
Type:									

Soil Texture:

Project/Site:	323-134 Pr	roposed Ma	amont 15 AST	Pad	City/County:	Westmorelar	nd Count	у	Sampling D	ate: November	11, 2022
Applicant/Owner:		(CNX Resource	es Corporatio	n, LLC		:	State: PA	Sampling Po	oint: SP-30	
Investigator(s):			ARS, APB		Se	ection, Township	o, Range	:	Bel	l Township	
Landform (hillslope, terrad	e, etc.):		Depress	sion	Local Re	elief (concave, cor	nvex, none	e):	Concave	Slope (%):	0-5
Subregion (LRR or MLR	A):		LRR N	Lat:	40.535744	Long:		79.547544	Dat	tum: NAD	83
Soil Map Unit Name:	Wharto	on silt loam	, 3 to 8 percer	nt slopes				NWI clas	sification:	N/A	
Are climatic/hydrologic o						Yes X	No		explain in Remark		
				-	significantly distu		Are "Norr	mal Circumstar ′es X	ices" present?		
Are Vegetation	<u>lo</u> , Soil _	No	, or Hydrology	No I	naturally problem	atic? ((If needed	l, explain any ans	wers in Remarks	.)	
SUMMARY OF FINE	NGS - Att	ach site	map showi	ng samplii	ng point locat	ions, transed	cts, imp	portant featu	res, etc.		
Hydrophytic Vegetation	Present?			Yes X	No						
Hydric Soil Present?				Yes X	No	Is the Sample	d Area	Yes X	No		
Wetland Hydrology Pres	ent?			Yes X	No	within a Wetl	land?	Wetland	d 17 - PEM		
Remarks:											
Sampling point is locate	d in a PEM w	etland loca	ted at the edg	e of an agric	ultural field.						
HYDROLOGY											
Wetland Hydrology Ind	licators:							Secon	dary Indicators	(minimum of two r	equired)
Primary Indicators (minimu	n of one is req	uired; check	all that apply)						_Surface Soil C	racks (B6)	
X Surface Water (A1)				True Aquatic	Plants (B14)				Sparsely Vege	etated Concave Surfa	ce (B8)
X High Water Table (A	2)			Hydrogen Su	lfide Odor (C1)				Drainage Patte	erns (B10)	
X Saturation (A3)			X	Oxidized Rhi	zospheres on Livin	g Roots (C3)			Moss Trim Line	es (B16)	
Water Marks (B1)				Presence of	Reduced Iron (C4)				Dry-Season W	ater Table (C2)	
Sediment Deposits (32)			Recent Iron I	Reduction in Tilled	Soils (C6)			Crayfish Burro	ws (C8)	
Drift Deposits (B3)				Thin Muck S	urface (C7)				Saturation Visi	ible on Aerial Imagery	r (C9)
Algal Mat or Crust (E	4)			Other (Explai	in in Remarks)				Stunted or Stre	essed Plants (D1)	
Iron Deposits (B5)									Geomorphic P	osition (D2)	
Inundation Visible or	Aerial Imagery	/ (B7)							Shallow Aquita	ard (D3)	
Water-Stained Leave	es (B9)								Mircotopograp	hic Relief (D4)	
Aquatic Fauna (B13)								X	FAC-Neutral T	est (D5)	
Field Observations:											
Surface Water Present	Yes	×	No		Donth (inchos):	0.2					
Water Table Present?	Yes	<u> </u>	No No		Depth (inches): Depth (inches):	<u> </u>	v	Vetland Hydro	loav Present?		
Saturation Present?	Yes	x			Depth (inches):	0		Yes X			
(includes capillary fringe	-	X	No		Deptil (illenes).						
Describe Recorded Dat	a (stream gau	uge, monito	oring well, aeria	al photos, pre	evious inspectior	ns), if available:					
Remarks:											

Sampling Point:

SP-30

	Absolute	Dominant	Indicator	Dominance Test workshe	et:		
ee Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Speci	es		
None,		<u> </u>		That Are OBL, FACW, or F		3	(A
					-		
				Total Number of Dominant			
				Species Across All Strata:	_	3	(B
				Percent of Dominant Specie	es		
				That Are OBL, FACW, or F	AC:	100%	_(A
	0	= Total Cover	-				
apling Stratum: (Plot Size: 15)			Prevalence Index worksho	eet:		
None				Total % Cover of:	<u> </u>	Multiply by:	_
				OBL species			
·							
·				Column Totals:	(A)		_(B
	0	= Total Cover					
Shrub Stratum: (Plot Size: 15	_)			Prevalence Inde	ex = B/A =		_
. None							
				Hydrophytic Vegetation Ir	ndicators:		
				1 - Rapid Test for Hyd		ation	
				X 2 - Dominance Test is	s >50%		
				3 - Prevalence Index			
				4 - Morphological Ada	aptations ¹ (Provi		
				4 - Morphological Ada data in Remarks o	aptations ¹ (Provi r on a separate	sheet)	
				4 - Morphological Ada	aptations ¹ (Provi r on a separate	sheet)	
	0			4 - Morphological Ada data in Remarks o	aptations ¹ (Provi r on a separate	sheet)	
lerb Stratum: (Plot size: 5	0			4 - Morphological Ada data in Remarks o	aptations ¹ (Provi r on a separate nytic Vegetation ¹	sheet) (Explain)	
erb Stratum: Poa palustris Epilobium coloratum		= Total Cover	FACW	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturber	aptations ¹ (Provi r on a separate nytic Vegetation ¹ nd wetland hydro <u>d or problematic</u>	sheet) (Explain) logy must	
	0) 	= Total Cover	FACW FACW OBL	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturber Definitions of Four Vegeta	aptations ¹ (Provi r on a separate nytic Vegetation ¹ nd wetland hydro <u>d or problematio</u> ation Strata:	sheet) (Explain) blogy must	
lerb Stratum: (Plot size: <u>5</u> . Poa palustris . Epilobium coloratum . Lycopus americanus . Juncus effusus	0) 20 7 3 15	= Total Cover	FACW FACW OBL FACW	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturber Definitions of Four Vegeta Tree - Woody plants, exclude	aptations ¹ (Provi r on a separate nytic Vegetation ¹ nd wetland hydro d or problemation ation Strata: ding vines, 3 in.	sheet) (Explain) logy must 	-+
Image:	0) 20 7 3 15 10	= Total Cover	FACW FACW OBL FACW FACW	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturber Definitions of Four Vegeta Tree - Woody plants, exclude more in diameter at breast I	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problematio</u> ation Strata: ding vines, 3 in. height (DBH), re	sheet) (Explain) blogy must <u>5.</u> (7.6 cm) or egardless of heigh	
Arrow Stratum: (Plot size: 5 Arrow Stratum: (Plot size: 5 Poa palustris 5 Epilobium coloratum 5 Lycopus americanus 5 Juncus effusus 5 Agrostis gigantea 5 Microstegium vimineum 5	0 20 7 3 15 10 15	Y N N N N N N N N N	FACW FACW OBL FACW FACW FAC	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturbed Definitions of Four Vegeta Tree - Woody plants, exclu more in diameter at breast I Sapling - Woody plants, exclu	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problemation ation Strata:</u> ding vines, 3 in. height (DBH), re koluding woody v	sheet) (Explain) blogy must (7.6 cm) or egardless of heigi vines, aproximate	
Herb Stratum: (Plot size:5 Herb Stratum: (Plot size:5 Poa palustris 5 Epilobium coloratum 5 Lycopus americanus 5 Juncus effusus 5 Agrostis gigantea 5 Microstegium vimineum 7 Carex vulipnoidea 5	0 20 7 3 15 10 15 20	= Total Cover Y N N N N N Y	FACW FACW OBL FACW FACW FAC OBL	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturber Definitions of Four Vegeta Tree - Woody plants, exclus more in diameter at breast I Sapling - Woody plants, ex (6 m) or more in height and	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problemation</u> ation Strata: ding vines, 3 in. height (DBH), re- kcluding woody vi l less than 3 in. (sheet) (Explain) logy must c. (7.6 cm) or gardless of heigl vines, aproximate 7.6 cm) DBH.	ely 20
A.	0) 20 7 3 15 10 15	Y N N N N N N N N N	FACW FACW OBL FACW FACW FAC	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturber Definitions of Four Vegeta Tree - Woody plants, exclu more in diameter at breast I Sapling - Woody plants, exc (6 m) or more in height and Shrub - Woody plants, excl	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problemation</u> ation Strata: ding vines, 3 in. height (DBH), re- kcluding woody vi l less than 3 in. (sheet) (Explain) logy must c. (7.6 cm) or gardless of heigl vines, aproximate 7.6 cm) DBH.	ely 20
Antiperiod Image: Stratum: Image: Approximation of the strate in the strate	0 20 7 3 15 10 15 20	= Total Cover Y N N N N N Y	FACW FACW OBL FACW FACW FAC OBL	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturbed Definitions of Four Vegeta Tree - Woody plants, exclut more in diameter at breast I Sapling - Woody plants, exc (6 m) or more in height and Shrub - Woody plants, exclut ft (1 to 6 m) in height.	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problemation</u> ation Strata: ding vines, 3 in. height (DBH), re- kcluding woody vi less than 3 in. (luding woody vir	sheet) (Explain) logy must (7.6 cm) or egardless of heigi vines, aproximate 7.6 cm) DBH. nes, aproximately	ely 2
Image:	0 20 7 3 15 10 15 20	= Total Cover Y N N N N N Y	FACW FACW OBL FACW FACW FAC OBL	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturbed Definitions of Four Vegeta Tree - Woody plants, exclut more in diameter at breast I Sapling - Woody plants, exc (6 m) or more in height and Shrub - Woody plants, excl ft (1 to 6 m) in height. Herb - All herbaceous (non-	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problemation</u> ation Strata: ding vines, 3 in. height (DBH), re- coluding woody vi less than 3 in. (luding woody vir -woody) plants,	sheet) (Explain) logy must 2. (7.6 cm) or gardless of heigi vines, aproximate 7.6 cm) DBH. nes, aproximately regardless	ely 2
Image: Stratum: (Plot size: 5 Image: Poa palustris 5 Image: Epilobium coloratum 5 Image: Lycopus americanus 1 Image: Lycopus americanus 1 Image: Lycopus americanus 1 Image: Lycopus americanus 1	0 20 7 3 15 10 15 20 25 	= Total Cover Y N N N N N Y	FACW FACW OBL FACW FACW FAC OBL	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturbed Definitions of Four Vegeta Tree - Woody plants, exclur more in diameter at breast I Sapling - Woody plants, exc (6 m) or more in height and Shrub - Woody plants, excl ft (1 to 6 m) in height. Herb - All herbaceous (non of size, and woody plants le	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problematic</u> ation Strata: ding vines, 3 in. height (DBH), re- coluding woody vi l less than 3 in. (luding woody vii e-woody) plants, ass than 3.28 ft t	sheet) (Explain) logy must (7.6 cm) or gardless of heigh vines, aproximately 7.6 cm) DBH. nes, aproximately regardless all.	ely 20
Ierb Stratum: (Plot size: 5 Poa palustris 5 Epilobium coloratum 1 Lycopus americanus 1 Juncus effusus 1 Microstegium vimineum 1	0 20 7 3 15 10 15 20 25 	= Total Cover Y N N N N N Y	FACW FACW OBL FACW FACW FAC OBL	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturbed Definitions of Four Vegeta Tree - Woody plants, exclut more in diameter at breast I Sapling - Woody plants, exc (6 m) or more in height and Shrub - Woody plants, excl ft (1 to 6 m) in height. Herb - All herbaceous (non-	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problematic</u> ation Strata: ding vines, 3 in. height (DBH), re- coluding woody vi l less than 3 in. (luding woody vii e-woody) plants, ass than 3.28 ft t	sheet) (Explain) logy must (7.6 cm) or gardless of heigh vines, aproximately 7.6 cm) DBH. nes, aproximately regardless all.	ely 2 3 to
Image: Stratum: (Plot size: 5 Image: Poa palustris 5 Image: Epilobium coloratum 5 Image: Lycopus americanus 1 Image: Lycopus americanus 1 Image: Lycopus americanus 1 Image: Lycopus americanus 1	0 20 7 3 15 10 15 20 25 		FACW FACW OBL FACW FAC OBL FAC	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturbed Definitions of Four Vegeta Tree - Woody plants, exclur more in diameter at breast I Sapling - Woody plants, exc (6 m) or more in height and Shrub - Woody plants, excl ft (1 to 6 m) in height. Herb - All herbaceous (non of size, and woody plants le	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problematic</u> ation Strata: ding vines, 3 in. height (DBH), re- coluding woody vi l less than 3 in. (luding woody vii e-woody) plants, ass than 3.28 ft t	sheet) (Explain) logy must (7.6 cm) or gardless of heigh vines, aproximately 7.6 cm) DBH. nes, aproximately regardless all.	ely 20 3 to
Arb Stratum: (Plot size: 5 Aerb Stratum: (Plot size: 5 Poa palustris 5 Epilobium coloratum 5 Lycopus americanus 5 Juncus effusus 5 Agrostis gigantea 5 Microstegium vimineum 5 Carex vulipnoidea 5 Euthamia graminifolia 5 0. 5	0 20 7 3 15 10 15 20 25 115 115		FACW FACW OBL FACW FAC OBL FAC OBL FAC	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturbed Definitions of Four Vegeta Tree - Woody plants, exclur more in diameter at breast I Sapling - Woody plants, exc (6 m) or more in height and Shrub - Woody plants, excl ft (1 to 6 m) in height. Herb - All herbaceous (non of size, and woody plants le	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problematic</u> ation Strata: ding vines, 3 in. height (DBH), re- coluding woody vi l less than 3 in. (luding woody vii e-woody) plants, ass than 3.28 ft t	sheet) (Explain) logy must (7.6 cm) or gardless of heigh vines, aproximately 7.6 cm) DBH. nes, aproximately regardless all.	ely 20
Image: Stratum: (Plot size: 5 Image: Poa palustris 5 Image: Poa palustris 5 Image: Epilobium coloratum 5 Image: Lycopus americanus 5 Image: Juncus effusus 5 Image: Agrostis gigantea 6 Image: Microstegium vimineum 6 Image: Carex vulipnoidea 6 Image: Euthamia graminifolia 6 Image: Lycopy Vine Stratum; (Plot size: 30	0 20 7 3 15 10 15 20 25 115 10 15 20 25 115 115 20 25 115		FACW FACW OBL FACW FAC OBL FAC OBL	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturbed Definitions of Four Vegeta Tree - Woody plants, exclur more in diameter at breast I Sapling - Woody plants, exc (6 m) or more in height and Shrub - Woody plants, excl ft (1 to 6 m) in height. Herb - All herbaceous (non of size, and woody plants le	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problematic</u> ation Strata: ding vines, 3 in. height (DBH), re- coluding woody vi l less than 3 in. (luding woody vii e-woody) plants, ass than 3.28 ft t	sheet) (Explain) logy must (7.6 cm) or gardless of heigh vines, aproximately 7.6 cm) DBH. nes, aproximately regardless all.	ely 20 3 to
Ierb Stratum: (Plot size: 5 Poa palustris 5 Epilobium coloratum 5 Lycopus americanus 5 Juncus effusus 5 Agrostis gigantea 6 Microstegium vimineum 6 Carex vulipnoidea 6 Lucus effusus 6 Voody Vine Stratum: (Plot size: 30 None 30	0 20 7 3 15 10 15 20 25 115 10 15 20 25 115 115 20 25 115	= Total Cover	FACW FACW OBL FACW FAC OBL FAC OBL	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturbed Definitions of Four Vegeta Tree - Woody plants, exclummore in diameter at breast I Sapling - Woody plants, excl (6 m) or more in height and Shrub - Woody plants, excl ft (1 to 6 m) in height. Herb - All herbaceous (non- of size, and woody plants le Woody Vines - All woody v	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problematic</u> ation Strata: ding vines, 3 in. height (DBH), re- coluding woody vi l less than 3 in. (luding woody vii e-woody) plants, ass than 3.28 ft t	sheet) (Explain) logy must (7.6 cm) or gardless of heigh vines, aproximately 7.6 cm) DBH. nes, aproximately regardless all.	ely 20 3 to
Image: Stratum: (Plot size:	0 20 7 3 15 10 15 20 25 115 10 15 20 25 115 115 20 25	= Total Cover	FACW FACW OBL FACW FAC OBL FAC OBL	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturbed Definitions of Four Vegeta Tree - Woody plants, exclur more in diameter at breast I Sapling - Woody plants, exc (6 m) or more in height and Shrub - Woody plants, excl ft (1 to 6 m) in height. Herb - All herbaceous (non of size, and woody plants le	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problematic</u> ation Strata: ding vines, 3 in. height (DBH), re- coluding woody vi l less than 3 in. (luding woody vii e-woody) plants, ass than 3.28 ft t	sheet) (Explain) logy must (7.6 cm) or gardless of heigh vines, aproximately 7.6 cm) DBH. nes, aproximately regardless all.	ely 20 3 to
Ierb Stratum: (Plot size:	0 20 7 3 15 10 15 20 25 115 20 25 115 0 115 0 0 15 0 0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0	= Total Cover	FACW FACW OBL FACW FAC OBL FAC OBL	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturbed Definitions of Four Vegeta Tree - Woody plants, exclur more in diameter at breast I Sapling - Woody plants, exclur (6 m) or more in height and Shrub - Woody plants, excl ft (1 to 6 m) in height. Herb - All herbaceous (non of size, and woody plants le Woody Vines - All woody v Hydrophytic	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problematic</u> ation Strata: ding vines, 3 in. height (DBH), re- coluding woody vi l less than 3 in. (luding woody vii e-woody) plants, ass than 3.28 ft t	sheet) (Explain) logy must (7.6 cm) or gardless of heigh vines, aproximately 7.6 cm) DBH. nes, aproximately regardless all.	ely 2 3 to
Ierb Stratum: (Plot size:	0 20 7 3 15 10 15 20 25 115 20 25 115 0 115 0 0 15 0 0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0	= Total Cover	FACW FACW OBL FACW FAC OBL FAC OBL FAC	4 - Morphological Ada data in Remarks o Problematic Hydroph ¹ Indicators of hydric soil an be present, unless disturbed Definitions of Four Vegeta Tree - Woody plants, exclut more in diameter at breast I Sapling - Woody plants, exclut (6 m) or more in height and Shrub - Woody plants, excl ft (1 to 6 m) in height. Herb - All herbaceous (non of size, and woody plants le Woody Vines - All woody v Hydrophytic Vegetation	aptations ¹ (Provi r on a separate hytic Vegetation ¹ d wetland hydro <u>d or problemation</u> ation Strata: ding vines, 3 in. height (DBH), re- kcluding woody vir less than 3 in. (luding woody vir -woody) plants, sss than 3.28 ft tr rines greater that	sheet) (Explain) logy must 2. (7.6 cm) or egardless of heigl vines, aproximately regardless all. In 3.28 ft in heigh	ely 2 3 to

(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 4/1	90	5YR 5/6	10	С	PL, M	Clay Loam	
		·						
		. <u> </u>						
<u> </u>		·						
pe: C=Conc	entration, D=Depletion, F	RM=Reduc	 ed Matrix, MS=Masked	Sand Grain			² Location: PL= Pore Lin	ing, M=Matrix.
dric Soil Indi	· · · · ·						Indicators for Problema	
Histosol (A	1)		Dark Surface (S7	.)			2 cm Muck (A10) (N	ILRA 147)
Histic Epipe	edon (A2)		Polyvalue Below	Surface (S8	B) (MLRA 147,1	48)	Coast Prairie Redox	< (A16)
Black Histic			Thin Dark Surface		RA147, 148)		(MLRA 147, 148)	
_Hydrogen S			Loamy Gleyed M	. ,			Piedmont Floodplai	n Soils (F19)
_Stratified La			X Depleted Matrix ((MLRA 136, 147)	
-	(A10) (LRR N)		Redox Dark Surfa				Very Shallow Dark	
-	elow Dark Surface (A11) Surface (A12)		Depleted Dark Su Redox Depressio				Other (Explain in Re	emarks)
	ky Mineral (S1) (LRR N,		Iron-Manganese		2) (I RR N			
			MLRA 136)	11123555 (1-1	2) (ERR 14,			
	ved Matrix (S4)		Umbric Surface (F13) (MLRA	A 136, 122)		³ Indicators of hydrophy	tic vegetation and
Sandy Red			Piedmont Floodp			3)	wetland hydrology m	-
Stripped Ma			Red Parent Mate			-	unless disturbed or	
strictive Lav	er (if observed):							
Type:	ei (il observed).							
	voc):						Hudria Sail Procent?	Vac V No
Depth (inch	les):						Hydric Soil Present?	Yes X No
marks:								

Project/Site:	323-134 Pro	posed Mamont 15 AST F	Pad	City/County:	Westmorelan	d County		Sampling Date:	November	11, 2022
Applicant/Owner:		CNX Resources	Corporation	n, LLC		S	tate: PA	Sampling Point:	SP-31	
Investigator(s):		ARS, APB		Se	ction, Township	, Range:		Bell Tov	vnship	
Landform (hillslope, terra	ce, etc.):	Agricultural fiel	d edge	Local Rel	lief (concave, con	nvex, none)	:	Concave	Slope (%):	0-5
Subregion (LRR or MLI	RA):	LRR N	Lat:	40.535808	Long:		79.547367	Datum:	NAD	83
Soil Map Unit Name:	·	silt loam, 3 to 8 percent	slopes					sification:	N/A	
		e site typical for this time			Yes X	No		xplain in Remarks.)	·	
		<u>No</u> , or Hydrology		significantly distur			al Circumstan	ces" present?		
Are Vegetation	No_, Soil	No , or Hydrology _	<u>No</u> n	naturally problem	atic? (wers in Remarks.)	-	
SUMMARY OF FIN	DINGS - Atta	ch site map showin	g samplin	ng point locati	ons, transec	cts, impo	ortant featu	res, etc.		
Hydrophytic Vegetation	Present?	Ň	Yes	No <u>X</u>						
Hydric Soil Present?		,	res	No <u>X</u>	Is the Sampled	d Area	Yes	No <u>X</u>	-	
Wetland Hydrology Pre	sent?	Ň	res	No <u>X</u>	within a Wetla		Up	bland	-	
Remarks: Upland sampling point	adjacent to Wet	land 17, located at the e	dge of an a	gricultural field.						
HYDROLOGY										
Wetland Hydrology In	dicators:						Secon	dary Indicators (mir	nimum of two re	equired)
Primary Indicators (minimu	m of one is requi	ed; check all that apply)						_Surface Soil Cracks	s (B6)	
Surface Water (A1)			Frue Aquatic	Plants (B14)				_Sparsely Vegetated	d Concave Surfac	ce (B8)
High Water Table (A	2)	H	Hydrogen Sul	fide Odor (C1)				Drainage Patterns	(B10)	
Saturation (A3)		(Oxidized Rhiz	cospheres on Living	Roots (C3)			_Moss Trim Lines (B	316)	
Water Marks (B1)		I	Presence of F	Reduced Iron (C4)				Dry-Season Water	Table (C2)	
Sediment Deposits	B2)	F	Recent Iron R	Reduction in Tilled S	Soils (C6)			Crayfish Burrows (C8)	
Drift Deposits (B3)			Thin Muck Su	Irface (C7)				Saturation Visible of	n Aerial Imagery	(C9)
Algal Mat or Crust (34)	(Other (Explair	n in Remarks)				Stunted or Stresse	d Plants (D1)	
Iron Deposits (B5)								Geomorphic Positio	on (D2)	
Inundation Visible o	n Aerial Imagery (B7)						Shallow Aquitard (03)	
Water-Stained Leav	es (B9)							Mircotopographic R	telief (D4)	
Aquatic Fauna (B13)							FAC-Neutral Test (D5)	
Field Observations:										
Surface Water Present	? Yes	No X	0	Depth (inches):						
Water Table Present?	Yes	No X		Depth (inches):		We	etland Hydrol	ogy Present?		
Saturation Present? (includes capillary fringe	Yes	No X		Depth (inches):		Y	′es	NoX		
		e, monitoring well, aerial	photos, pre	vious inspection	s), if available:					
Remarks:										

Sampling Point:

SP-31

	Absolute	Dominant	Indicator	Dominance Test worksh	eet:		
ee Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Spe	cies		
None		,		That Are OBL, FACW, or	FAC:	1	(A)
				Total Number of Dominon			
				Total Number of Dominan Species Across All Strata:		5	/D
				Species Across Air Strata.	_	5	_(B)
				Descent of Dominant Space	-*		
-			<u> </u>	Percent of Dominant Spec		20%	
			<u> </u>	That Are OBL, FACW, or	FAC:	20%	_(A/
	0	= Total Cover	ſ	Prevalence Index works	heat.		
apling Stratum: (Plot Size: 15	_)						
None				Total % Cover of:		Multiply by:	_
				OBL species			
					x 2 =		_
					x 3 =		
					x 4 =		
				UPL species	x 5 =		_
				Column Totals:	(A)		_(B
	0	= Total Cover	r				
nrub Stratum: (Plot Size: 15	_)			Prevalence Inc	dex = B/A =		
None							
				Hydrophytic Vegetation	Indicators:		_
				1 - Rapid Test for Hy	ydrophytic Vegetat	tion	
				2 - Dominance Test	is >50%		
				3 - Prevalence Index	x is ≤3.0 ¹		
				4 - Morphological Adaptations ¹ (Provide supporting			
·				data in Remarks	or on a separate s	sheet)	
	0	= Total Cover	r	Problematic Hydrop	hytic Vegetation ¹	(Explain)	
erb Stratum: (Plot size: 5)						
Trifolium repens		Y	FACU	¹ Indicators of hydric soil and wetland hydrology must			
T-if- I'	15	Y	FACU	be present, unless disturb			
Rubus allegheniensis	20	Y	FACU	Definitions of Four Vege			
Daucus carota	10	N	UPL	Tree - Woody plants, excl		(7.6 cm) or	
	5	N	FACU	more in diameter at breas			nt.
	15	Y	FACU	Sanling - Woody plants, e	excluding woody v	ines aproximate	ار v
			UPL		Sapling - Woody plants, excluding woody vines, aproximal (6 m) or more in height and less than 3 in. (7.6 cm) DBH.		'y _
	5	IN IN					
Plantago lanceolata	<u>5</u>	<u>N</u>		Shruh - Woody plants ex		,	3 to
Plantago lanceolata Symphyotrichum lateriflorum	15	Y	FACW	Shrub - Woody plants, ex ft (1 to 6 m) in height.		,	3 tc
Plantago lanceolata Symphyotrichum lateriflorum				ft (1 to 6 m) in height.	cluding woody vin	es, aproximately	' 3 tc
Plantago lanceolata Symphyotrichum lateriflorum Taraxacum officinale).	<u>15</u> 5	Y N	FACW FACU		cluding woody vin n-woody) plants, r	es, aproximately egardless	' 3 tc
Plantago lanceolata Symphyotrichum lateriflorum Taraxacum officinale	<u>15</u> 5	Y N	FACW FACU	ft (1 to 6 m) in height. Herb - All herbaceous (no of size, and woody plants	cluding woody vin n-woody) plants, r less than 3.28 ft ta	es, aproximately regardless all.	
Plantago lanceolata Symphyotrichum lateriflorum Taraxacum officinale		Y N	FACW FACU	ft (1 to 6 m) in height. Herb - All herbaceous (no	cluding woody vin n-woody) plants, r less than 3.28 ft ta	es, aproximately regardless all.	
Plantago lanceolata Symphyotrichum lateriflorum Taraxacum officinale	15 5 	Y N	FACW FACU	ft (1 to 6 m) in height. Herb - All herbaceous (no of size, and woody plants	cluding woody vin n-woody) plants, r less than 3.28 ft ta	es, aproximately regardless all.	
Plantago lanceolata Symphyotrichum lateriflorum Taraxacum officinale 0. 2. 3.0	15 5 	Y N	FACW FACU	ft (1 to 6 m) in height. Herb - All herbaceous (no of size, and woody plants	cluding woody vin n-woody) plants, r less than 3.28 ft ta	es, aproximately regardless all.	
Plantago lanceolata Symphyotrichum lateriflorum Taraxacum officinale 0. .	15 	Y N = Total Cover	FACW FACU	ft (1 to 6 m) in height. Herb - All herbaceous (no of size, and woody plants	cluding woody vin n-woody) plants, r less than 3.28 ft ta	es, aproximately regardless all.	
Plantago lanceolata Symphyotrichum lateriflorum Taraxacum officinale .	15 	Y N = Total Cover	FACW FACU	ft (1 to 6 m) in height. Herb - All herbaceous (no of size, and woody plants	cluding woody vin n-woody) plants, r less than 3.28 ft ta	es, aproximately regardless all.	
Plantago lanceolata Symphyotrichum lateriflorum Taraxacum officinale 0. 1. 2. /oody Vine Stratum: (Plot size: 30 None	15 	Y N = Total Cover	FACW FACU	ft (1 to 6 m) in height. Herb - All herbaceous (no of size, and woody plants Woody Vines - All woody Hydrophytic Vegetation	cluding woody vin n-woody) plants, r less than 3.28 ft ta vines greater thar	es, aproximately regardless all.	
Plantago lanceolata Symphyotrichum lateriflorum Taraxacum officinale). 1. 2. 'oody Vine Stratum: (Plot size:30 None	15 	Y N = Total Cover	FACW FACU	ft (1 to 6 m) in height. Herb - All herbaceous (no of size, and woody plants Woody Vines - All woody Hydrophytic	cluding woody vin n-woody) plants, r less than 3.28 ft ta	es, aproximately regardless all.	t.
Plantago lanceolata Symphyotrichum lateriflorum Taraxacum officinale 0. 1. 2. /oody Vine Stratum: (Plot size: 30 None		Y N = Total Cover	FACW FACU	ft (1 to 6 m) in height. Herb - All herbaceous (no of size, and woody plants Woody Vines - All woody Hydrophytic Vegetation	cluding woody vin n-woody) plants, r less than 3.28 ft ta vines greater thar	es, aproximately egardless all. n 3.28 ft in heigh	t.

SOIL

Depth	Matrix			Redox Fea	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
· · · ·		<u> </u>						
0-16	10YR 4/1				·		Silt Loam	
·		<u> </u>			<u> </u>			
·					<u> </u>			
·					·			
pe: C=Conc	centration, D=Depletion, F	M=Reduce	d Matrix, MS=Masked	Sand Grain	s.		² Location: PL= Pore Lin	ing, M=Matrix.
Iric Soil Ind	licators:						Indicators for Problem	
Histosol (A			Dark Surface (S7	`			2 cm Muck (A10) (N	-
Histic Epipe	,	-	Polyvalue Below) (MI RA 147 1	48)	Coast Prairie Redo	
Black Histic		-	Thin Dark Surface			40)	(MLRA 147, 148)	(((10))
-	Sulfide (A4)	-	Loamy Gleyed Ma		,		Piedmont Floodplai	n Soils (F19)
Stratified L		-	Depleted Matrix ((MLRA 136, 147)	
-	(A10) (LRR N)	-	Redox Dark Surfa				Very Shallow Dark	Surface (TF12)
-	Below Dark Surface (A11)	-	Depleted Dark Su				Other (Explain in R	
Thick Dark	Surface (A12)	-	Redox Depressio	ns (F8)			、、	,
Sandy Muc	cky Mineral (S1) (LRR N,	-	Iron-Manganese	Masses (F1	2) (LRR N,			
MLRA 1	47, 148)	-	MLRA 136)					
Sandy Gle	yed Matrix (S4)	-	Umbric Surface (I	=13) (MLRA	136, 122)		³ Indicators of hydrophy	tic vegetation and
Sandy Red	dox (S5)	-	Piedmont Floodp	ain Soils (F	19) (MLRA 148	3)	wetland hydrology m	nust be present,
Stripped M	latrix (S6)	-	Red Parent Mate	ial (F21) (N	LRA 127, 147))	unless disturbed o	r problematic.
strictive Lay	ver (if observed):							
Type:								
Depth (incl	hes):						Hydric Soil Present?	Yes <u>No X</u>
narks:								

APPENDIX D

STREAM DATA FORMS

MAM14 U1 Pipeline and Waterline	STREAM SURVEY DATA COLLECTION FORM
PROJECT 332-793 DATE <u>8/1/23</u> STREAM FIELD ID <u>Stream 5</u>	Weather Conditions: X Sunny \Box Partly Cloudy \Box Cloudy \Box Rain Any precipitation in the last 5 days? X Yes \Box No
STREAM NAME <u>Beaver Run</u> REVIEWER(S) <u>ARS, APB</u>	Stream Type: 🛛 Perennial
 Flagged (total flags) GPS coordinates collected 	numbers: <u>11</u> upstream <u>12</u> downstream <u>crossing</u> Stream crossed/encroached by centerline or limit of disturbance: <u>X</u> Yes <u>No</u> Crossing length <u>feet</u> Road crossing and type: <u>Bridge Ford crossing Culvert (Diameter:)</u>
	aan-made). Explain: d (man-altered). Explain (rip/rap, gabions, stream channelized, filled, or truncated):
Average top of bank wid Average top of bank dep Wetted width (feet): Wetted depth (feet): Average side slopes: _V	with respect to top of bank (estimate): th (feet): $15-50$ At centerline: 44 14-49 At centerline: $432"-4+'$ At centerline: $3"vertical (1:1 or less); 2:1; 3:1; 4:1 or moretrk (OHWM), if observed:$
X Silt X Sand	composition (check all that apply):BedrockXGravel (0.25" to 2")BedrockXCobble (2" to 10")Vegetation (%)XBoulder (>10")XXOther. Explain: algae
If flow present, estin	, streambed dry □ Streambed moist □ Standing water ⊠ Flowing water nate stage at time of survey: □ High ⊠ Normal □ Low ive □ Moderate ⊠ Little / None
Tributary has (check all that	apply): X Defined bed and banks \Box Poorly defined bed and banks
Water Quality Characteristics General watershed or riparia ⊠ forested □ open field □	an area characteristics: a farmland u wetland u mixed use u industrial u mining u residential
Stream Shading: ⊠ 75 - Wetland fringe: ⊠ Yes(Wetland ID: _{We} t1	□ Abutting or 🛛 Adjacent) □ No
	□ Yes ⊠ No Describe:
	n starts upstream of the delineation boundary, in a
forested valley and co	ontinues downstream of the delineation boundary.

PROJECT 332-793	Weather Conditions: Sunny Partly Cloudy & Cloudy BRa
DATE 9/28/23	Any precipitation in the last 5 days? X Yes D No
STREAM FIELD ID Stream 1	
STREAM NAME UNT 1 to Bea	ver Run Stream Type: Perennial
REVIEWER(S) DWL, ARS	X Intermittent
Reviewentor twich and	- Ephemeral
	numbers: 16 upstream 17 downstream crossing
Flagged (total flags)	Stream crossed/encroacted by centerline or limit of disturbat
CPS coordinates collected	Yes X No Crossing length feet
	Road crossing and type:
	Bridge D Ford crossing D Culvert (Diameter:
Hydrological Characteristics:	
Tributary is: X Natural.	
Artificial (m	nan-made). Explain:
	ed (man-altered). Explain (rip/rap, gabions, stream channelized, filled, or truncated
Stream channel properties v	with respect to top of bank (estimate):
Average top of bank wid	th (feet): 6-9 At centerline: To down \$200
Average top of bank der Wetted width (feet):	pth (feet): 1.5-37 At centerline:
Wetted depth (feet):	
	Vertical (1:1 or less); 2:1; 3:1; 4:1 or more
	ark (OHWM), if observed:
and a standard and a standard	
Primary tributary substrate of	composition (check all that apply):
_XSilt _	Cravel (0.25" to 2") Bedrock
X Sand	Cobble (2' to 10") Vegetation (%)
Ciay	Boulder (>10') Other. Explain
Flow Characteristics:	
Water present: D No water	r, streambed dry 💢 Streambed moist 💢 Standing water 🗉 Flowing water
If flow present, estin	nate stage at time of survey: 🗆 High 🗉 Normal 🗆 Low
Bank erosion: X Extens	sive 🗆 Moderate 🗇 Little / None
and a second from the second	THAT THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE
Tributary has (check all that	apply): X Defined bed and banks Poorly defined bed and banks
Water Quality Characteristics	
General watershed or riparia	an area characteristics:
	a farmland is wetland is mixed use is industrial is mining is residential
Xincolas a openines a	
Stream Shading: 🗙 75 -	- 100% 🗆 50 - 74% 🗆 25 - 49% 🗆 0 - 24%
	🗅 Abutting or 🗆 Adjacent) 💥 No
Wetland ID:	
Biological Characteristics:	a Viva a Na David M. A. a (l)
Macroinvertebrates observe	d? X Yes O No Describe: Mayflics, Chironomids
Fish or wildlife observed?	Yes X No Describe:
Other Observations and Commen	
Stram State with in	side the tree line along the edge of a field and f
	slope before exiting the delineation boundary.
COMPLEX THE NED (111)	TOPE DE LINE SALLIT STILL ACTIVATION SOUTAGE VI

MAM14 U1 Pipeline and Waterline STREAM SURVEY DATA COLLECTION FORM
PROJECT 332-793 Weather Conditions: I Sunny □ Partly Cloudy □ Cloudy □ Rain DATE7/31/23 Any precipitation in the last 5 days? I Yes □ No STREAM FIELD ID Stream 1
STREAM NAME UNT 1 to Beaver Run Stream Type: X Perennial REVIEWER(S) ARS, APB Intermittent Ephemeral Stream Type: X Perennial
 ☑ Photographs taken Photograph numbers: <u>32</u> upstream <u>33</u> downstream crossing ☑ Flagged (total flags) Stream crossed/encroached by centerline or limit of disturbance: ☑ GPS coordinates collected
Hydrological Characteristics: Tributary is: X Natural. □ Artificial (man-made). Explain: □ Manipulated (man-altered). Explain (rip/rap, gabions, stream channelized, filled, or truncated):
Stream channel properties with respect to top of bank (estimate): Average top of bank width (feet): <u>3-7</u> At centerline: <u>4.5</u> Average top of bank depth (feet): <u>1-2.5</u> At centerline: <u>1.5</u> Wetted width (feet): <u>3-7</u> At centerline: <u>4</u> Wetted depth (feet): <u>1-8</u> " At centerline: <u>4</u> Average side slopes: Vertical (1:1 or less); 2:1; 3:1; 4:1 or more Ordinary High Water Mark (OHWM), if observed:
Primary tributary substrate composition (check all that apply): Silt X Gravel (0.25" to 2") Bedrock Sand X Cobble (2" to 10") Vegetation (%) Clay X Boulder (>10") Other. Explain:
Flow Characteristics: Water present: No water, streambed dry Streambed moist Standing water Flowing water If flow present, estimate stage at time of survey: High Normal Low Bank erosion: Extensive Moderate Little / None Tributary has (check all that apply): X Defined bed and banks Poorly defined bed and banks
Water Quality Characteristics General watershed or riparian area characteristics:
Stream Shading: ⊠ 75 - 100% □ 50 - 74% □ 25 - 49% □ 0 - 24% Wetland fringe: ⊠ Yes (□ Abutting or ⊠ Adjacent) □ No Wetland ID: _{Wetland 5}
Biological Characteristics: Macroinvertebrates observed? X Yes D No Describe: Stonefly, mayfly, caddisfly Fish or wildlife observed? D Yes X No Describe:
Other Observations and Comments: Stream starts upstream of the delineation boundary, down a forested hillslope and crosses an existing utility line right-of-way before continuing downstream of the delineation boundary.

MAM14 U1 Pipeline and Waterline STREAM SURVEY DATA COLLECTION FORM
PROJECT 332-793 Weather Conditions: X Sunny Partly Cloudy Cloudy Rain DATE 7/31/23 Any precipitation in the last 5 days? X Yes No STREAM FIELD ID Stream 2
STREAM NAME <u>UNT 2 to Beaver Run</u> Stream Type: X Perennial REVIEWER(S) <u>ARS, APB</u> Intermittent Ephemeral Stream Type: X Perennial
 ☑ Photographs taken Photograph numbers: <u>34</u> upstream <u>35</u> downstream crossing ☑ Flagged (total flags) ☑ GPS coordinates collected ☑ GPS coordinates collected ☑ Bridge □ Ford crossing □ Culvert (Diameter:)
Hydrological Characteristics: Tributary is: X Natural. Artificial (man-made). Explain: Manipulated (man-altered). Explain (rip/rap, gabions, stream channelized, filled, or truncated):
Stream channel properties with respect to top of bank (estimate): Average top of bank width (feet): $2-8$ At centerline: 5 Average top of bank depth (feet): $0.5-1.5$ At centerline: 1 Wetted width (feet): $2-7$ At centerline: 4 Wetted depth (feet): $0.5-3$ " At centerline: 0.5 Average side slopes: Vertical (1:1 or less); 2:1; 3:1; 4:1 or more Ordinary High Water Mark (OHWM), if observed:
Primary tributary substrate composition (check all that apply): Silt XGravel (0.25" to 2") Bedrock Sand XCobble (2" to 10") Vegetation (%) Clay XBoulder (>10") Other. Explain:
Flow Characteristics: Water present: □ No water, streambed dry □ Streambed moist □ Standing water ⊠ Flowing water If flow present, estimate stage at time of survey: □ High ⊠ Normal □ Low Bank erosion: □ Extensive □ Moderate ⊠ Little / None Tributary has (check all that apply): ⊠ Defined bed and banks □ Poorly defined bed and banks
Water Quality Characteristics General watershed or riparian area characteristics:
Stream Shading: ⊠ 75 - 100% □ 50 - 74% □ 25 - 49% □ 0 - 24% Wetland fringe: ⊠ Yes (□ Abutting or ⊠ Adjacent) □ No Wetland ID: _{Wetland} 5
Biological Characteristics: Macroinvertebrates observed? X Yes D No Describe: Stonefly, isopod, caddisfly Fish or wildlife observed? D Yes X No Describe:
Other Observations and Comments: Stream starts upstream of the delineation boundary, down a forested hillslope and crosses an existing utility line right-of-way before before confluencing with Stream 1.

MAM14 U1 Pipeline and Waterline STREAM SURVEY DATA COLLECTION FORM
PROJECT 332-793 Weather Conditions: Image: Sunny Partly Cloudy Image: Cloudy Image: Rain DATE 8/1/23 Any precipitation in the last 5 days? Image: Rain Image: Rain STREAM FIELD ID Stream 6 Image: Rain Image: Rain
STREAM NAME UNT 3 to Beaver Run Stream Type: X Perennial REVIEWER(S) ARS, APB Intermittent Ephemeral Intermittent
 ☑ Photographs taken Photograph numbers: <u>14</u> upstream <u>15</u> downstream <u>crossing</u> ☑ Flagged (total flags) ☑ GPS coordinates collected ☑ W Yes □ No ☑ Crossing length feet ☑ Bridge □ Ford crossing □ Culvert (Diameter:)
Hydrological Characteristics: Tributary is:
Stream channel properties with respect to top of bank (estimate): Average top of bank width (feet): <u>4-7</u> At centerline: Average top of bank depth (feet): <u>0.25-1</u> At centerline: Wetted width (feet): <u>2-5</u> At centerline: Wetted depth (feet): <u>1-6</u> " At centerline: Average side slopes: Vertical (1:1 or less); 2:1; 3:1; 4:1 or more Ordinary High Water Mark (OHWM), if observed:
Primary tributary substrate composition (check all that apply): X Silt X Gravel (0.25" to 2") X Bedrock Sand X Cobble (2" to 10") Vegetation (%) Clay X Boulder (>10") Other. Explain:
Flow Characteristics: Water present: □ No water, streambed dry □ Streambed moist □ Standing water ☑ Flowing water If flow present, estimate stage at time of survey: □ High ☑ Normal □ Low Bank erosion: □ Extensive □ Moderate ☑ Little / None Tributary has (check all that apply): ☑ Defined bed and banks □ Poorly defined bed and banks
Water Quality Characteristics General watershed or riparian area characteristics: ⊠ forested □ open field □ farmland □ wetland □ mixed use □ industrial □ mining □ residential
Stream Shading: ⊠ 75 - 100% □ 50 - 74% □ 25 - 49% □ 0 - 24% Wetland fringe: □ Yes (□ Abutting or □ Adjacent) ⊠ No Wetland ID:
Biological Characteristics: Macroinvertebrates observed? □ Yes ⊠ No Describe: Fish or wildlife observed? □ Yes ⊠ No Describe:
Other Observations and Comments: Stream starts upstream of the delineation boundary, down a forested hillslope until it confluences with Stream 5 (Beaver Run). Stream displayed signs of heavy iron content which could be why no macros were observed.

MAM14 U1 Pipeline STREAM SURVEY DATA COLLECTION FORM and Waterline
PROJECT 332-793 Weather Conditions: X Sunny Dertly Cloudy Cloudy Rain
DATE 7/31/23 Any precipitation in the last 5 days? X Yes I No
STREAM FIELD ID Stream 4
STREAM NAME <u>UNT 4 to Beaver Run</u> Stream Type: X Perennial
REVIEWER(S) <u>ARS, APB</u>
[™] Photographs taken Photograph numbers: <u>51</u> upstream <u>52</u> downstream crossing
✓ Flagged (total flags) Stream crossed/encroached by centerline or limit of disturbance:
I Yes I No Crossing length feet
Road crossing and type:
□ Bridge □ Ford crossing □ Culvert (Diameter:)
Hydrological Characteristics:
Tributary is: 🛛 Natural.
Artificial (man-made). Explain:
□ Manipulated (man-altered). Explain (rip/rap, gabions, stream channelized, filled, or truncated):
Stream channel properties with respect to top of bank (estimate):
Oricam chamic properties with respect to top of bank (cstimate).
Average top of bank width (feet): <u>2-3.5</u> At centerline: <u></u> Top of book c Stream Average top of bank depth (feet): <u>0.5-1.5</u> At centerline: <u></u>
Wetted width (feet): $1-3$ At centerline:
Wetted depth (feet): $0.25-0.5$ " At centerline:
Average side slopes: Vertical (1:1 or less); 2:1; 3:1; 4:1 or more
Ordinary High Water Mark (OHWM), if observed:
Primary tributary substrate composition (check all that apply):
\underline{X} Silt \underline{X} Gravel (0.25" to 2") Bedrock
$\underline{\underline{X}} Sand \underline{\underline{X}} Cobble (2" to 10") \underline{\underline{X}} Vegetation (\underline{\underline{N}})$
Clay Boulder (>10") Other. Explain:
Flow Characteristics:
Water present: No water, streambed dry Streambed moist Standing water Flowing water
If flow present, estimate stage at time of survey: High X Normal Low
Bank erosion: Extensive Moderate K Little / None
Tributary has (check all that apply): X Defined bed and banks \Box Poorly defined bed and banks
Water Quality Characteristics
General watershed or riparian area characteristics:
🕱 forested 🗆 open field 🗆 farmland 🕱 wetland 🗆 mixed use 🗆 industrial 🗆 mining 🗆 residential
Stream Shading: 🛛 75 - 100% 🗆 50 - 74% 🗆 25 - 49% 🗆 0 - 24%
Wetland fringe: 🛛 Yes (🖾 Abutting or 🗆 Adjacent) 🗆 No
Wetland ID: Wetland 5A and 6
Biological Characteristics:
Macroinvertebrates observed? Yes No Describe:
Fish or wildlife observed? \Box Yes \blacksquare No Describe:
Other Observations and Comments:
Stream starts at a seep on a forested hillslope, and continues downstream
until it loses bed and bank into Wetland 5A. Stream has high silt content
which could be why no macros were observed.

MAM14 U1 Pipeline and Waterline	STREAM SURVEY DATA COLLECTION FORM
	_ Weather Conditions: ⊠ Sunny □ Partly Cloudy □ Cloudy □ Rain _ Any precipitation in the last 5 days? ⊠ Yes □ No
STREAM NAME <u>Trib 42938</u> REVIEWER(S) <u>ARS, APB</u>	
 Photographs taken Photograph Flagged (total flags) GPS coordinates collected 	numbers: <u>58</u> upstream <u>59</u> downstream <u>crossing</u> Stream crossed/encroached by centerline or limit of disturbance:
	nan-made). Explain: ed (man-altered). Explain (rip/rap, gabions, stream channelized, filled, or truncated):
Average top of bank wid Average top of bank dep Wetted width (feet): Wetted depth (feet): Average side slopes:	with respect to top of bank (estimate): Ith (feet): $14-23$ At centerline: 17 oth (feet): $3-5$ At centerline: 3 12-22 At centerline: $1212-25$ At centerline: $2"/ertical (1:1 or less); 2:1; 3:1; 4:1 or moreark (OHWM), if observed:$
X Silt Sand	composition (check all that apply):XGravel (0.25" to 2")BedrockXCobble (2" to 10")Vegetation (%)XBoulder (>10")XXOther. Explain: Algae
If flow present, estin Bank erosion: □ Extens	r, streambed dry □ Streambed moist □ Standing water ⊠ Flowing water nate stage at time of survey: □ High ⊠ Normal □ Low ive ⊠ Moderate □ Little / None apply): ⊠ Defined bed and banks □ Poorly defined bed and banks
Water Quality Characteristics General watershed or riparia ⊠ forested □ open field □	an area characteristics: a farmland u wetland u mixed use u industrial u mining u residential
0	100% □ 50 - 74% □ 25 - 49% □ 0 - 24% □ Abutting or □ Adjacent) ⊠ No
	d? 🛛 Yes 🗆 No Describe: Caddisfly 🗆 Yes 🕅 No Describe:
	ts: <u>n of the delineation boundary, through a forested</u> stream of the delineation boundary.

MAM14 U1 Pipeline and Waterline STREAM SURVEY DATA COLLECTION FORM
PROJECT 332-793 Weather Conditions: X Sunny □ Partly Cloudy □ Cloudy □ Rain DATE 8/1/23 Any precipitation in the last 5 days? X Yes □ No STREAM FIELD ID Stream 8
STREAM NAME UNT 1 to Trib 42938 to Beaver Run Stream Type: Perennial REVIEWER(S) ARS, APB Intermittent X Ephemeral
 ☑ Photographs taken Photograph numbers: <u>66</u> upstream <u>67</u> downstream <u>crossing</u> ☑ Flagged (total flags) ☑ GPS coordinates collected □ Yes ☑ No Crossing length feet Road crossing and type: □ Bridge □ Ford crossing □ Culvert (Diameter:)
Hydrological Characteristics: Tributary is: X Natural. □ Artificial (man-made). Explain: □ Artificial (man-made). Explain (rip/rap, gabions, stream channelized, filled, or truncated):
Stream channel properties with respect to top of bank (estimate): Average top of bank width (feet): <u>3-6</u> At centerline: Average top of bank depth (feet): <u>1-4</u> At centerline: Wetted width (feet): At centerline: Wetted depth (feet): At centerline: Average side slopes: Vertical (1:1 or less); 2:1; 3:1; 4:1 or more Ordinary High Water Mark (OHWM), if observed:
Primary tributary substrate composition (check all that apply):
Flow Characteristics: Water present: ⊠ No water, streambed dry □ Streambed moist □ Standing water □ Flowing water If flow present, estimate stage at time of survey: □ High □ Normal □ Low Bank erosion: ⊠ Extensive □ Moderate □ Little / None
Tributary has (check all that apply): X Defined bed and banks \Box Poorly defined bed and banks
Water Quality Characteristics General watershed or riparian area characteristics: X forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested Q forested
Stream Shading: ⊠ 75 - 100% □ 50 - 74% □ 25 - 49% □ 0 - 24% Wetland fringe: □ Yes (□ Abutting or □ Adjacent) ⊠ No Wetland ID:
Biological Characteristics: Macroinvertebrates observed? □ Yes ⊠ No Describe: Fish or wildlife observed? □ Yes ⊠ No Describe:
Other Observations and Comments: <u>Stream starts at a head-cut on a forested hillslope and continues downstream</u> <u>before losing bed and bank on the upland floodplain of Stream 7.</u>

MAM14 U1 Pipeline and Waterline STREAM SURVEY DATA COLLECTION FORM
PROJECT 332-793 Weather Conditions: 🛛 Sunny 🗆 Partly Cloudy 🗆 Cloudy 🗆 Rain
DATE 8/1/23 Any precipitation in the last 5 days? X Yes D No
STREAM FIELD ID <u>Stream 9</u>
STREAM NAME UNT 2 to Trib 42938 to Beaver Run Stream Type: Perennial
REVIEWER(S) ARS, APB
🛛 Ephemeral
Photographs taken Photograph numbers: <u>82</u> upstream <u>83</u> downstream crossing
☑ Flagged (total flags) Stream crossed/encroached by centerline or limit of disturbance:
🛛 GPS coordinates collected 🛛 🗆 Yes 🕅 No Crossing length feet
Road crossing and type:
Bridge Generation Ford crossing Generation Culvert (Diameter:)
Hydrological Characteristics:
Tributary is: 🛛 Natural.
Artificial (man-made). Explain:
Manipulated (man-altered). Explain (rip/rap, gabions, stream channelized, filled, or truncated):
Stream channel properties with respect to top of bank (estimate):
Average top of bank width (feet): <u>2-4.5</u> At centerline: <u> </u>
Average top of bank depth (feet): 0.5-3 At centerline:
Wetted width (feet): At centerline: Wetted depth (feet): At centerline:
Average side slopes: Vertical (1:1 or less); 2:1; 3:1; 4:1 or more
Ordinary High Water Mark (OHWM), if observed:
Primary tributary substrate composition (check all that apply):
X Silt X Gravel (0.25" to 2") Bedrock X Sand X Cobble (2" to 10") Vegetation (%) Clay Boulder (>10") Other. Explain:
Sand Cobble (2" to 10") Vegetation (%)
Clay Boulder (>10") Other. Explain:
Flow Characteristics:
Water present: X No water, streambed dry Streambed moist Standing water Flowing water
If flow present, estimate stage at time of survey: High Normal Low
Bank erosion: Extensive Moderate Little / None
Tributary has (check all that apply): 🛛 Defined bed and banks 🛛 🗆 Poorly defined bed and banks
Water Quality Characteristics
General watershed or riparian area characteristics:
🛚 forested 🗆 open field 🗆 farmland 🗆 wetland 🗆 mixed use 🗆 industrial 🗆 mining 🗆 residential
Stream Shading: 🛛 75 - 100% 🗆 50 - 74% 🗆 25 - 49% 🗆 0 - 24%
Wetland fringe: 🗆 Yes (□ Abutting or □ Adjacent) 🛛 No
Wetland ID:
Biological Characteristics:
Macroinvertebrates observed? Yes X No Describe:
Fish or wildlife observed? Yes No Describe:
Other Observations and Comments: Stream starts upstream of the delineation boundary and continues downstream
until it loses bed and bank on an upland hillslope.

BP6 U2 Waterline Extension	STREAM SURVEY DATA COLLECTION	N FORM
PROJECT /95-472	Weather Conditions: X Sunny	Redb Claude an Ola da a se
DATE 11/3/21		Partly Cloudy Cloudy Rai
STREAM FIELD ID Stream 9	Any precipitation in the last 5 days?	X Yes 🗆 No
	eaver Run (at crossing location)	Charles Trans Densit
REVIEWER(S) NUL, ARS	caver Run (at crossing location)	Stream Type: Derennial
The section of the se	-	X Intermittent
Destarrate taken		Ephemeral
Flagged (total flags)	numbers: <u>15</u> upstream <u>16</u> downstrea	
		roached by centerline or limit of disturban
CPS coordinates collected	X Yes D M	
	Road crossing and ty	
Hydrological Characteristics;	, D Bridge D	Ford crossing Culvert (Diameter: _
Tributary is: X Natural.	192.2	
	an-made). Explain:	
Manipulated	d (man-altered). Explain (rip/rap, gabions	s, stream channelized, filled, or truncated)
Stream channel properties w	ith respect to top of bank (estimate):	
Average top of bank widt	h (feet): <u>6-8</u> At centerline:	6.5' The of bank & Streen
Average top of bank depl	th (feet):At centerline:	15
Wetted width (feet):	2-3' At centerline: O	
Wetted depth (feet):(D=2" At centerline: O	
Average side slopes: Ve	artical (1:1 or less); 2:1; 3:1; 4:1 or more	
Ordinary High Water Mar	k (OHWM), if observed:	A Batlan
Primary tributary substrate co	mposition (check all that apply):	
Silt	K Gravel (0.25" to 2")	Bedrock
Sand	Cobble (2" to 10")	< Vegetation (50 %)
Clay	Boulder (>10")	Other. Explain:
Flow Characteristics:		
	streamhod doy XX Streamhod moist . W	Standing water of Floring to
If flow present estimate	streambed dry) Streambed moist) at a stage at time of survey: High	
Bank erosion: D Extensiv		D Normal D Low
Dank crosion. El Extensiv	e ⊡ Moderate) K Little / Non	ie
Tributary has (check all that a	pply):)g Defined bed and banks	Poorly defined bed and banks
		- · · · · · · · · · · · · · · · · · · ·
Water Quality Characteristics		
General watershed or riparian		
) forested open field open	farmland 🗆 wetland 🗆 mixed use t	industrial 🗆 mining 🗆 residential
Stream Shading: D 75 - 1	00% 🗆 50-74% 🕱 25-49%	D 0 04W
	Abutting or I Adjacent) X No	0-24%
Wetland ID:	Additing of a Adjacenti je No	
Trouin ID.		
Biological Characteristics:		
Macroinvertebrates observed?	V I Yes X No Describe:	
Fish or wildlife observed?	Yes X No Describe:	
Other Observations and Comments;		11, 1-11
the set of the set of the second is a set	and the line of the first fragments of the second s	recorded I have been
Stream flows through a f	rested valley that has been	recently ingged, the granner
Is heavily overgrown with	un and downstream of the	mainrity of the stylind mac

10.00

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