

Wetland Delineation and Watercourse Identification Report

RURA FIELD PROJECT

BLACK LICK AND CENTER TOWNSHIPS INDIANA COUNTY, PENNSYLVANIA

WETLAND DELINEATION AND WATERCOURSE IDENTIFICATION REPORT

Prepared for:



Homer City Generation LP 1750 Power Plant Road Homer City, PA 15748

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November 2024

TABLE OF CONTENTS

Introduction	1
Methodology	1
Field Investigators	
Site Conditions	
Results	3
Conclusion	
References	7

Figures

Figure 1: Project Location Map

Figure 2: National Wetlands Inventory (NWI) Wetlands

Figure 3: Site Soils

Figure 4: Aquatic Resources and Photograph Index

Appendices

Appendix A: Site Photographs

Appendix B: Data Forms

Appendix C: Professional Qualifications

INTRODUCTION

Homer City Generation LP is proposing to develop a 146-acre parcel known as the Rura Field in Center and Black Lick Townships, Indiana County, Pennsylvania (**Figure 1**). Power Plant Road bisects the parcel, and current land use within the study area consists of agriculture and open space (woodlands, meadows, and wetlands). Surrounding land use includes agriculture, open space (woodlands and wetlands), residential, and commercial. Plant communities within the study area are those typical of the area and include agricultural fields (soybeans and corn), maintained and unmaintained grasslands (lawn and meadow), forest, floodplain, and palustrine scrub-shrub (PSS), and palustrine emergent (PEM) wetlands.

A delineation for potential jurisdictional wetlands and waterways was conducted on September 12, 2024- September 13, 2024, and October 16, 2024, by Michael Baker International (MBI) biologists.

METHODOLOGY

Wetland Methodology

Prior to fieldwork, biologists from MBI conducted a desktop assessment of the study area. A typical desktop assessment includes evaluating aerial imagery and site topography; a review of the United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) for documented wetlands (**Figure 2**); streams identified within the National Hydrography Dataset (NHD), hydric soils, potential habitats for rare, threatened, or endangered species, and a review of the Pennsylvania Department of Environmental Protection (PADEP) eMapPA system for known watercourses within the project area. Data from soil surveys were also reviewed to identify areas of major and minor hydric components within the study area (**Figure 3**).

Wetlands are delineated using the methods and criteria described in the United States Army Corps of Engineers (USACE) Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region Version 2.0 (USACE, 2012) and the USACE Wetlands Delineation Manual (Environmental Laboratory, 1987). An area must meet USACE criteria for hydrology, plant communities, and soils to be considered a wetland. If adequate evidence has been observed to determine a wetland area, it is classified according to the USFWS Classification of Wetlands and Deepwater Habitats for the United States (Cowardin et al., 1979).

Once a potential wetland has been identified, it is examined for sources of hydrology, hydrophytic plant communities, and evidence of redoximorphic (redox) features and anaerobic conditions in the soil horizons. Areas are then evaluated for evidence of wetland hydrology, such as ponding or flowing surface waters, saturated soils, dead or stressed vegetation, oxidized rhizospheres on living roots, and position in the landscape.

Plants are identified to the taxonomic level of species, and each indicator status is recorded using the *National Wetland Plant List* website (USACE, 2024). If a delineation is conducted outside of the growing season, plant identification is performed using live plants, basal rosettes, persistent seed pods, tree and shrub buds, persistent leaves, bark, bud scars, and distinctive sprouts, such as skunk cabbage (*Symplocarpus foetidus*) and moneywort (*Lysimachia nummalaria*).

Soil test pits are dug using a 16-inch spade, while general soil test areas are sampled with a Dutch auger. Representative photographs are taken at each soil test pit (**Figure 4** and **Appendix A**). Soil points are examined for redox features and classified by texture (i.e., the composition of silt, sand, michael Baker

and clay) and color according to criteria outlined in the 1987 Wetlands Delineation Manual (Environmental Laboratory, 1987) and the Munsell® Soil Color Chart (Munsell Color, 2010).

All soil test pits, wetlands, and other notable features are mapped on a handheld tablet equipped with Uinta software and a Trimble DA-2 Catalyst Global Navigation Satellite System (GNSS) receiver, or equivalent, with sub-meter accuracy. Wetlands are flagged where appropriate, and USACE data forms are completed for each wetland and upland sample point (**Appendix B**). Additional upland data points may be taken in ambiguous locations (i.e., heavily disturbed areas receiving hydrology from seeps or springs or areas exhibiting other wetland-like qualities) but do not meet all criteria. Qualified biologists (**Appendix C**) may also classify wetlands as open-ended or closed. An open-ended wetland extends beyond the defined study area. If a wetland is described as closed, the entire perimeter is within the study area and has been mapped.

Watercourse Methodology

Watercourses include traditionally navigable surface waters, such as rivers, large streams, and lakes, and those not deemed traditionally navigable, such as small streams or ponds. Any waterway may be jurisdictional and should be evaluated by qualified biologists. While rivers, lakes, and ponds can be more generally classified and are often historically identified features within the landscape, smaller streams are often unrecorded.

Prior to fieldwork, biologists from MBI conducted a desktop assessment of the study area. A typical desktop assessment includes evaluating aerial imagery and site topography, the NWI mapping, and NHD for previously documented watercourses.

Following the desktop assessment, qualified biologists from MBI perform an on-site investigation to evaluate a defined study area for watercourses. They gather critical watercourse characteristics such as a defined bed and bank, substrate composition, flow regime, hydrology source, ordinary high-water mark (OHWM), and general geomorphology. Streams must exhibit a defined bed and bank and contain flowing or standing water for at least a portion of the year. In addition, streams may meet the criteria for one or more of the following flow regime definitions outlined by the USACE (i.e., perennial, intermittent, or ephemeral):

- Perennial: A perennial stream has flowing water year-round during a typical year. The water table is located above the stream bed for most of the year. Groundwater is the primary source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.
- Intermittent: An intermittent stream has flowing water during certain times of the year when
 groundwater provides water for stream flow. During dry periods, intermittent streams may not
 have flowing water. Runoff from rainfall is a supplemental source of water for stream flow.
- Ephemeral: An ephemeral stream has flowing water only during, and for a short duration after, precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round. Groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow.



Watercourses are mapped on a handheld tablet equipped with Uinta software and a Trimble DA-2 Catalyst Global Navigation Satellite System (GNSS) receiver, or equivalent, with sub-meter accuracy and flagged where appropriate.

FIELD INVESTIGATORS

Crystal Roemer, PWS – Michael Baker International, Inc.

Trevor Surgener - Michael Baker International, Inc.

SITE CONDITIONS

Delineation Date: September 12-13, October 16, 2024

Temperature: 80°F; 80°F; 48°F

Weather Conditions: Sunny/Clear; Sunny/Clear; Overcast

Precipitation in Past 24 Hours: 0.00"; 0.00"; 0.03" (CoCoRaHS Station PA-IN-4: Indiana 2.8 E)

Total Precipitation in Past 7 Days: 0.84"; 0.84"; 0.38" (CoCoRaHS Station PA-IN-4: Indiana 2.8 E)

RESULTS

Wetlands

During the desktop review, four NWI wetlands (**Figure 2**), one soil with major hydric components, and five soils with minor hydric components (**Table 1** and **Figure 3**) were identified within the study area.

Table 1 – Hydric Soils and Soils with Hydric Inclusions

Map Unit Code	Soil Name	Hydric Rating*
AhB	Allegheny silt loam, 3 to 8 percent slopes	0
BuB	Buchanan loam, 3 to 8 percent slopes	5
BuC	Buchanan loam, 8 to 15 percent slopes	3
ChA	Chavies fine sandy loam, 0 to 2 percent slopes	0
ErB	Ernest silt loam, 3 to 8 percent slopes	5
GcB	Gilpin channery silt loam, 3 to 8 percent slopes	0
HnC	Hazleton channery sandy loam, 8 to 15 percent slopes	0
HnD	Hazleton channery sandy loam, 15 to 25 percent slopes	0
HnF	Hazleton channery sandy loam, 25 to 75 percent slopes	0
MoA	Monongahela silt loam, 0 to 3 percent slopes	5
PuA	Purdy silt loam, 0 to 2 percent slopes	75
TyA	Tyler silt loam, 0 to 2 percent slopes	5
WhC	Wharton silt loam, 8 to 15 percent slopes	0
*Uvdria Dating board	on the National Because Concentation Senting's Web Soil Survey Hydric Soil Beting	acala which provides a

^{*}Hydric Rating based on the National Resource Conservation Service's Web Soil Survey Hydric Soil Rating scale, which provides a percentage of each map unit classified as hydric (USDA, 2024).

During the on-site delineation, two wetlands were identified within the study area (**Figure 4**). A description of each wetland is provided below and in **Table 2**. Photographs and data forms for each wetland are in **Appendix A** and **Appendix B**, respectively.



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Wetland ID	Cowardin Classification	Abutting or Adjacent to Waterway (Yes/No)	Open or Closed Delineation ¹	Total Wetland within Study Area (acres)
		(163/110)	Delineation	(acres)
W-01	PEM	No	Closed	0.155
W-02a	PEM	Yes	Open	2.950
W-02b	PSS	No	Closed	0.340
W-02c	PEM	No	Closed	0.218
	3.663			

¹Wetlands identified as "Closed" are those in which the entire boundary of the wetland is located within the study area. Wetlands identified as "Open-Ended" continue beyond the limits of the study area and were not delineated in their entirety.

Wetland W-01 is a 0.155-acre PEM wetland located in the southwestern portion of the study area and is in a depression within an agricultural field. The wetland's vegetation is sparse, and cracks in the surface soil were observed. Dominant wetland vegetation consists of *Panicum dichotomoflorum* (panic grass), *Echinochloa crus-galli* (barnyard grass), and *Cyperus esculentus* (yellow nutsedge). Hydrology is received from surface runoff and groundwater. Soils are compacted and disturbed, texture is silty clay loam (SiCL) with small sand inclusions from eroded sandstone. Redoximorphic concentrations in the pore linings and depletions in the matrix were observed.

Wetland W-02 is a 3.508-acre wetland complex located in the southwestern portion of the study area. This complex comprises one PSS component (W-02b) bordered by two PEM components (W-02a, W02c). A description of each is below.

W-02a is a 2.950-acre PEM wetland located in the southwestern quadrant of the study area. Wetland W-02a hydrology generally follows previous earth disturbances under the existing powerline transmission infrastructure. Vegetation within wetland W-02a is predominately grasses and forbs, with woody shrubs on its periphery near the upland forest. Dominant vegetation consisted of *Epilobium coloratum* (purple-leaf willowherb), *Solidago gigantea* (giant goldenrod), *Apocynum cannabinum* (dogbane), *Vernonia noveboracensis* (New York ironweed), and *Glyceria striata* (fowl mannagrass), with *Cornus amomum* (silky dogwood) present on wood line fringes. Hydrology is received from surface runoff and groundwater. The soil texture was silty clay loam (SiCL), and redoximorphic concentrations were observed.

W-02b is a 0.340-acre PSS portion of wetland W-02 located in a depression in the southwest quadrant of the study area. Vegetation within wetland W-02b is a mix of trees, grasses, and forbs. Woody shrubs were the most dominant vegetation stratum. Dominant vegetation includes *Cornus racemosa* (gray dogwood), *Viburnum denatum* (northern viburnum), *Quercus rubra* (red oak), *Salix nigra* (black willow) and *Lysimachia nummularia* (creeping jenny). Hydrology is received from surface runoff, groundwater, and wetland W-02a. Soils exhibited redoximorphic features, soil texture consisted of silty-clay loam (SiCL).

W-02c is a 0.218-acre PEM portion of wetland W-02 located in the southwestern quadrant of the study area. Vegetation within wetland W-02c is predominately grasses and forbs, with woody shrubs and trees present on its edge. Dominant vegetation consisted of *Typha angustifolia L.* (narrowleaf cattail), *Microstegium vimineum* (Japanese stiltgrass), *Acer saccharinum* (silver



maple), and *Cornus racemosa* (gray dogwood). Hydrology is received from surface runoff, groundwater, and wetland W-02b. Soil texture was silty clay loam (SiCL), redox concentrations were observed.

Watercourses

Two perennial (PER) watercourse were identified on the NWI and NHD during the desktop review; Tributary (Trib) 44075 to Two Lick Creek and Tributary (Trib) 44076 to Two Lick Creek. The presence of these resources was confirmed during the on-site survey (**Figure 4** and **Appendix A**).

The study area is within the Two Lick Creek-Black Lick Creek watershed (Hydrologic Unit Code [HUC] 12: 050100070804). All watercourses ultimately convey hydrology to the greater Conemaugh River watershed (HUC8: 05010007).

Per Pennsylvania Code, Chapter 93 Water Quality Standards, Trib 44075 and Trib 44076 to Two Lick Creek and all associated unnamed tributaries (UNTs) have a designated use of cold water fishes (CWF). These streams are not designated by Pennsylvania Fish and Boat Commission (PFBC) as approved trout waters; therefore, they are not subject to in-stream construction time-and-date restrictions. A summary of streams within the study area is provided below and in **Table 3**.

Average Average Average Average Average Ordinary Flow Water Bank Channel Top of Reach ID Gradient High-water Width Regime Depth Bank Width Depth Mark (inches) (inches) (inches) (inches) (inches) S-01 (Trib 44075 High PER 2.5" 92.5" 74.0" 116.0" 336.0" to Two Lick Creek) S-01a (Trib 44076 1.5" High PER 57.0" 59.0" 228.0" 335.0" to Two Lick Creek)

Table 3 - Watercourses

S-01 (Trib 44075 to Two Lick Creek) is a high gradient PER stream located at the western extent of the study area. It originates north of the study area and flows generally southwest to Two Lick Creek. Stream S-01 receives hydrology from surface runoff, groundwater, and stream S-01a. Flow is ultimately conveyed to Two Lick Creek. Stream S-01 has a designated use of CWF.

S-01a (Trib 44076 to Two Lick Creek) is a high-gradient EPH stream originating northwest of the of the study area. Stream S-01a receives hydrology from surface runoff and generally flows southeast into the study area until its confluence with S-01. Stream S-01a has a designated use of CWF.



CONCLUSION

Two PER stream reaches and two wetlands (PEM and PEM/PSS complex) totaling 3.663 were identified within the study area. All watercourses have a designated use of CWF per Pennsylvania Code, Chapter 93 Water Quality Standards. One portion of PEM wetland W-02a extended beyond the study area. Of the. All features are assumed jurisdictional for the purposes of this report; however, wetland W-01 may not be jurisdictional under the current definition of Waters of the United States (WOTUS). If a formal determination is desired to determine whether this resource is a WOTUS, a Jurisdictional Determination from USACE would need to be requested. Only the USACE may formally decide whether a wetland or waterway is a WOTUS. If changes to the current regulations and definitions are enacted, these conclusions should be reevaluated to ensure compliance. If project design changes require additional areas beyond the study area defined in this report, further field studies may be necessary.

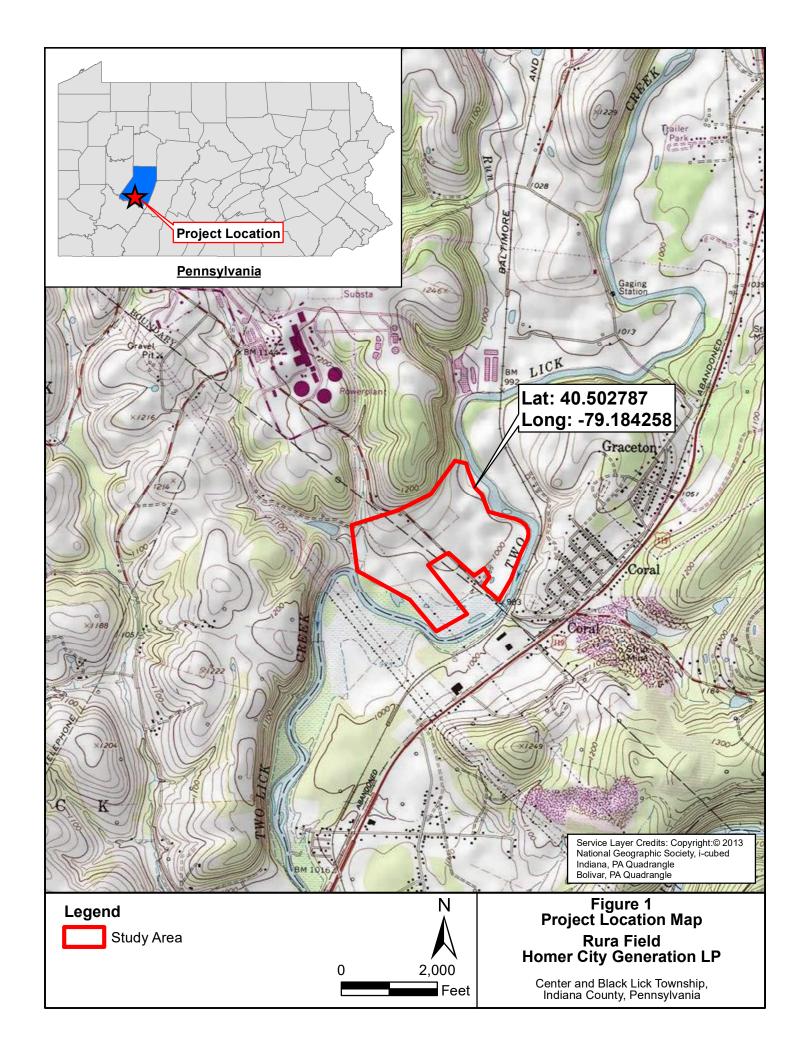


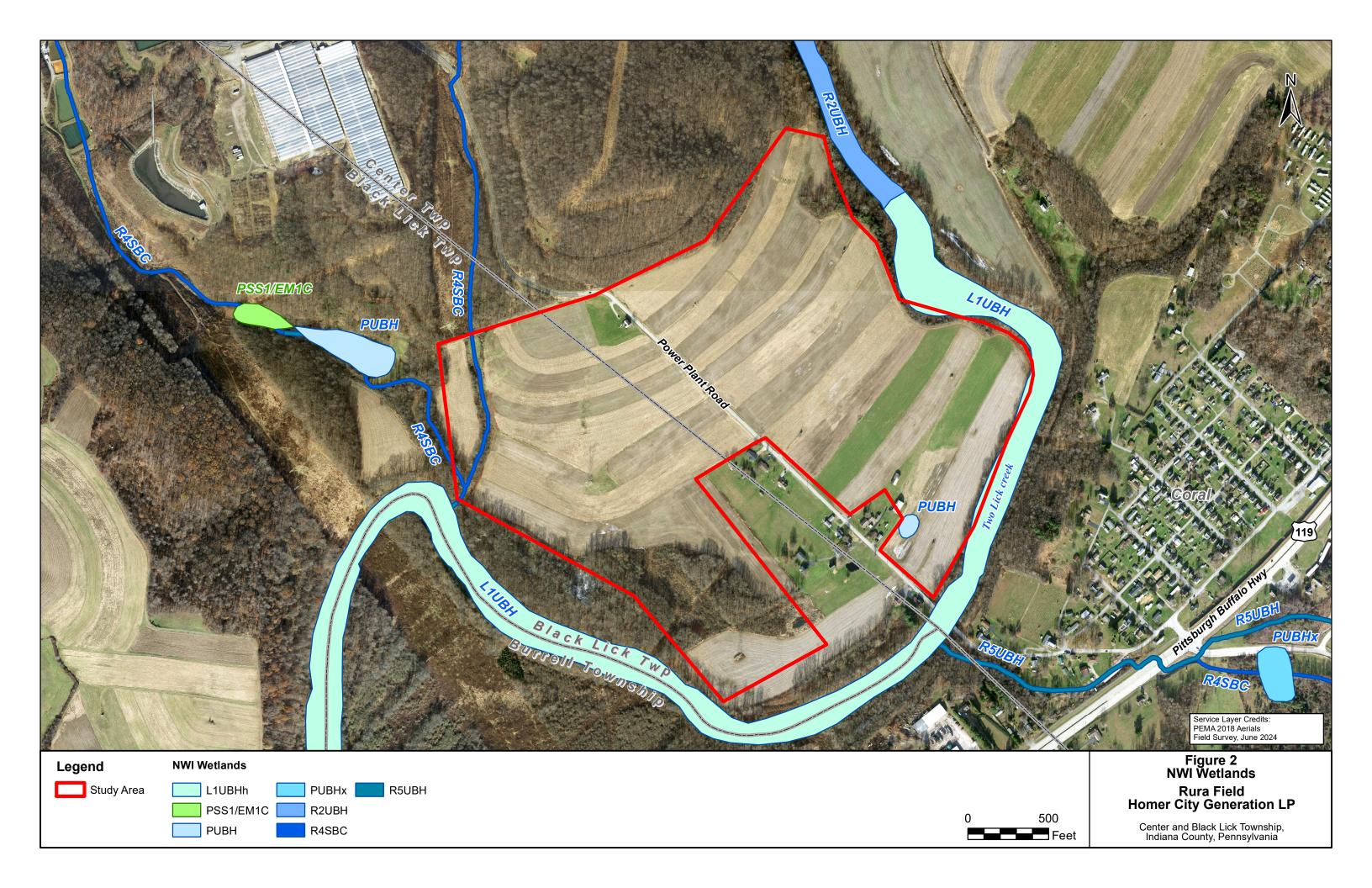
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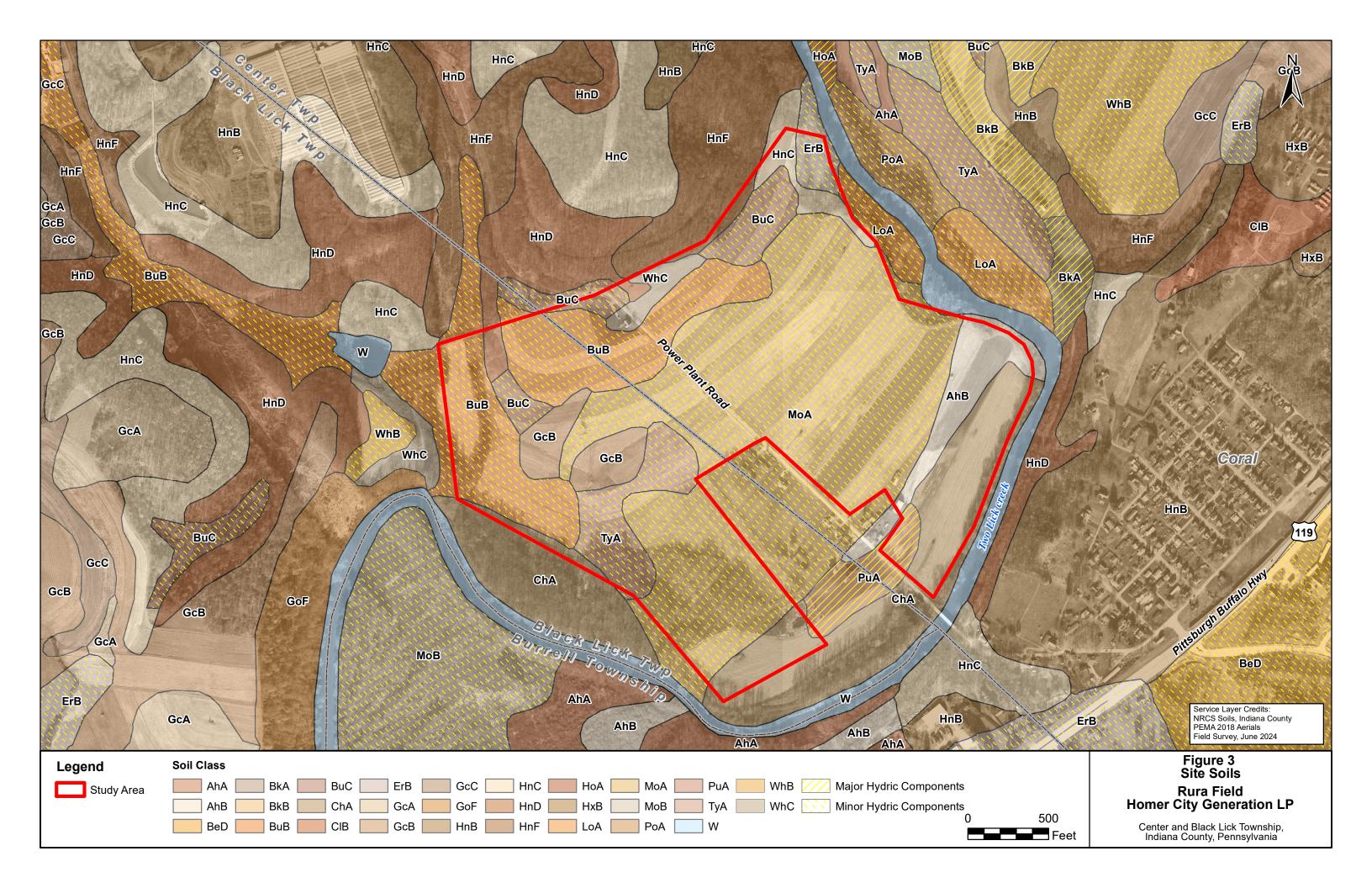
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 Cresson, PA Weather Conditions | Weather Underground (wunderground.com)

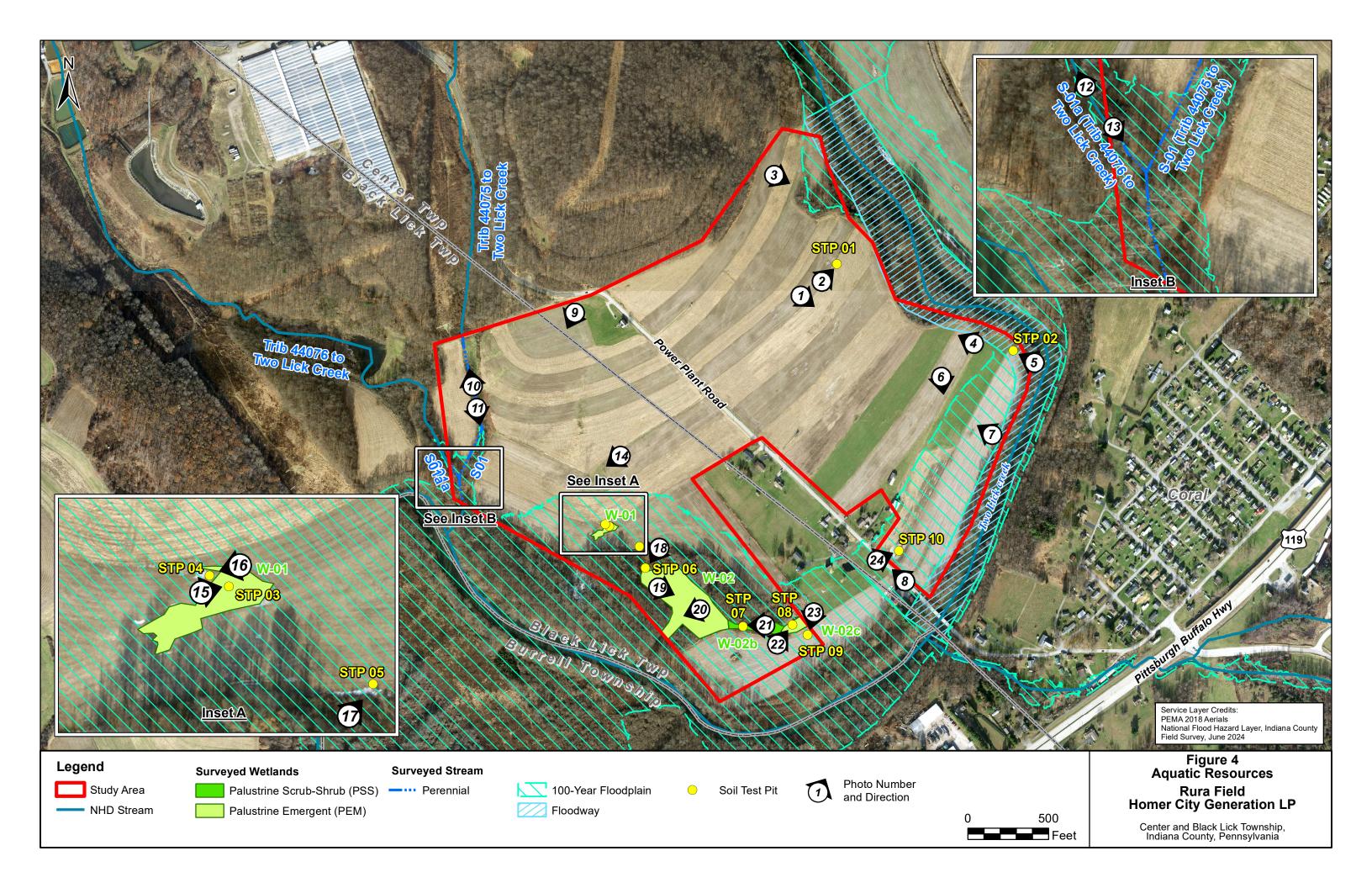


FIGURES









APPENDIX A SITE PHOTOGRAPHS



Photograph 1 – Overview of agricultural field in the central eastern study area. (facing southeast).



Photograph 2 – Overview of upland sample point STP-01 within agricultural field. (facing northeast).





Photograph 3 – Overview of edge of agricultural field in the eastern part of the study area (facing southeast).



Photograph 4 – Overview of agricultural field in the northeastern part of the study area (facing northwest).





Photograph 5 – View of upland point STP-04 in the northeastern part of the study area along the edge of agricultural field, STP-04 lacked hydrophytic wetland vegetation. (facing northwest).



Photograph 6 – Overview of the eastern agricultural field (facing southeast).





Photograph 7 – Overview of the eastern agricultural field (facing northwest).



Photograph 8 – Overview of center of the study area and residential property along Power Plant Road (facing northwest).





Photograph 9 – Overview of agricultural field in western part of the study area (facing southwest).



Photograph 10 –View of stream S-01 (Trib 44075 to Two Lick Creek) from an existing bridge in western portion of the study area (facing upstream).





Photograph 11 – View of stream S-01 (Trib 44075 to Two Lick Creek) from existing bridge in western portion of the study area (facing downstream).



Photograph 12 – Overview of stream S-01a (Trib 44076 to Two Lick Creek) in western portion of the study area (facing upstream).





Photograph 13 – Overview of stream S-01a (Trib 44076 to Two Lick Creek) in western portion of the study area (facing downstream).



Photograph 14 – Overview of agricultural field along existing power infrastructure in the western portion of the agricultural field (facing southwest).





Photograph 15 – Overview of STP-03 within PEM wetland W-01. Wetland W-01 exhibited surface soil cracks and a sparsely vegetated concave surface (facing northeast).



Photograph 16 – Overview of upland sample point STP-04 within western agricultural field, north of wetland W-01 (facing west).





Photograph 17 – Overview of upland point STP-05 on the southern fringe of western agricultural field (facing northeast).

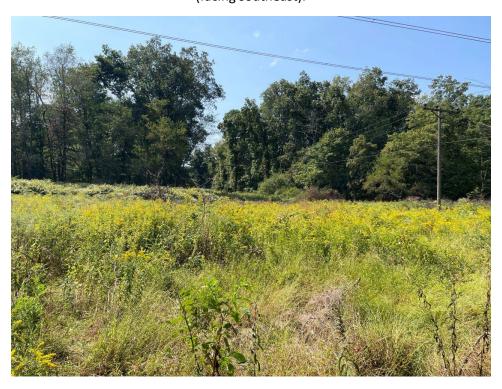


Photograph 18 – Overview of STP-06 within PEM wetland W-02a (facing southwest).





Photograph 19 – Overview of PEM wetland W-02a along utility right-of-way (facing southeast).



Photograph 20 – Overview of PEM wetland W-02a where it continues out of the study area towards Two Lick Creek (facing southwest).





Photograph 21 – Overview of PSS wetland W-02b (facing west).



Photograph 22 – Overview of STP-08 within PEM wetland W-02c (facing northeast).





Photograph 23 – Overview of upland point STP-09 on the fringe of agricultural field (facing southwest).



Photograph 24 – Overview of upland point STP-10 within agricultural field (facing northeast).



APPENDIX B DATA FORMS

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Rura Field	City/County: Blair	sville/Indiana	Sampling Date: 09/12/2024
Applicant/Owner: Homer City Generation LP		State: PA	Sampling Point: STP-01
Investigator(s): Crystal Roemer, Trevor Surgener	Section, Township		
Landform (hillslope, terrace, etc.): depression		convex, none):	Slope (%): 0-2
Subregion (LRR or MLRA): LRR N Lat:	40.50531667	Long: -79.18183667	Datum: NAD83
Soil Map Unit Name: MoA: Monongahela silt loam,		NWI classifi	
Are climatic / hydrologic conditions on the site typical fo			
Are Vegetation , Soil , or Hydrology			present? Yes O No
Are Vegetation , Soil , or Hydrology	1	(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site ma		nt locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes O	No O Is the Same		
Hydric Soil Present? Yes O	Is the Sam	. / /	No ①
Wetland Hydrology Present? Yes	No within a W	etiand? Yes	NO <u> </u>
Remarks:			
Weather: Sunny/Clear, 80°F. Precipitation in Pas PA-IN-4: Indiana 2.8 E)	st 24 Hours: 0.00", Total Precip	oitation in Past 7 Days: 0.8	34" (CoCoRahs Station
STP-01 upland point is located in a depression w	vithin an agriculture field (soyb	ean).	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soil	Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	☐ Drainage Pa	atterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living I	Roots (C3) Moss Trim L	ines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Sc	oils (C6) 🔛 Crayfish Bu	rrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)			Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	` '
Water-Stained Leaves (B9)		Microtopogr	aphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutra	I Test (D5)
Field Observations:	Depth (inches):		
Surface Water Present? Yes No Water Table Present? Yes No	Depth (inches):		
	Depth (inches):	Wetland Hydrology Prese	nt? Yes O No O
(includes capillary fringe)			III: 165 <u>C</u> 140 <u>C</u>
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous inspec	tions), if available:	
Remarks:			
One secondary hydrological indicator observed,		hydrology.	
Hydrology is significantly disturbed due to agricul	itural activity.		

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: STP-01 Absolute Dominant Indicator **Dominance Test worksheet:** <u>Tree Stratum</u> (Plot size: 30' % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 0_____(A) Total Number of Dominant 1 (B) Species Across All Strata: Percent of Dominant Species 0.0 ____ (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: 0_____ = Total Cover 0 x 1 = 0 OBL species 50% of total cover: 0.0 __ 20% of total cover: 0.0 0 ____ x 2 = 0 FACW species Sapling/Shrub Stratum (Plot size: 15') FAC species 0 x 3 = 0FACU species 0 x 4 = 0UPL species 98 x 5 = 490 Column Totals: <u>98</u> (A) <u>490</u> (B) Prevalence Index = B/A = 5.006. Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 0 _ = Total Cover 4 - Morphological Adaptations¹ (Provide supporting 50% of total cover: 0.0 20% of total cover: 0.0 data in Remarks or on a separate sheet) Herb Stratum (Plot size: 5') Problematic Hydrophytic Vegetation¹ (Explain) 1. Glycine max 98 UPL ¹Indicators 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/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 50% of total cover: 49.0 20% of total cover: 19.6 Woody vine - All woody vines greater than 3.28 ft in Woody Vine Stratum (Plot size: 30') height. Hydrophytic Vegetation Yes O No O 0 = Total Cover Present? 50% of total cover: 0.0 20% of total cover: 0.0

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

Upland plant community observed.

SOIL Sampling Point: STP-01

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator o	or confirm	the absence	e of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-16	10YR 4/3	100					SiCL	
								· -
								·
								·
								· -
		<u> </u>						
	-							·
	-	· —— -						
¹ Type: C=Co	oncentration, D=Dep	letion, RM=R	teduced Matrix, M	S=Masked	Sand Gra	ins.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						<u>Ind</u> ic	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ce (S8) (M	LRA 147,	148)	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	ırface (S9)	(MLRA 1	47, 148)	_	(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		F	Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark	Surface (F	6)			/ery Shallow Dark Surface (TF12)
Depleted	d Below Dark Surfac	e (A11)	Depleted Da	rk Surface	(F7)			Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F	8)			
Sandy M	lucky Mineral (S1) (I	RR N,	Iron-Mangan			RR N,		
	\ 147, 148)	•	MLRA 13		, , ,	·		
	Gleyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	³ Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent I					nless disturbed or problematic.
	_ayer (if observed):				/ (1	
Type:								
	ches):		<u> </u>				Hydria Sai	l Present? Yes O No O
			_				Hyuric 301	Triesent? Tes No
Remarks:								
No hydric so	oil indicators obser	ved.						
	mpacted and signi		urbed due to ag	ricultural	activity.			
					-			

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Rura Field	City/County: Blain	rsville/Indiana	_ Sampling Date: 09/12/2024
Applicant/Owner: Homer City Generation LP	, , ,		Sampling Point: STP-02
Investigator(s): Crystal Roemer, Trevor Surgener	Section, Township		
Landform (hillslope, terrace, etc.): depression	Local relief (concave	, convex, none):	Slope (%): 0-2
Subregion (LRR or MLRA): LRR N Lat:	40.503893°	Long: <u>-79.177878°</u>	Datum: NAD83
Soil Map Unit Name: AhB: Allegheny silt loam, 3 to	8 percent slopes	NWI classifi	cation: N/A
Are climatic / hydrologic conditions on the site typical fo		No (If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes O No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	ap showing sampling poi	int locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes O	No O la the Sam		
Hydric Soil Present? Yes	No Significant No Sig	. / /	No ①
Wetland Hydrology Present? Yes	No Widilit a W	etialiu: Tes	
Remarks:			
Weather: Sunny/Clear, 80°F. Precipitation in Pas PA-IN-4: Indiana 2.8 E)	st 24 Hours: 0.00", Total Preci	pitation in Past 7 Days: 0.8	34" (CoCoRahs Station
STP-02 upland point is located in a depression of	on the edge of an agricultural f	ield.	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	✓ Surface Soi	l Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	egetated Concave Surface (B8)
	Hydrogen Sulfide Odor (C1)		atterns (B10)
	Oxidized Rhizospheres on Living	Roots (C3) Moss Trim L	Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)		Water Table (C2)
	Recent Iron Reduction in Tilled So		
	Thin Muck Surface (C7)		/isible on Aerial Imagery (C9)
	Other (Explain in Remarks)		Stressed Plants (D1)
Iron Deposits (B5)			Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	• •
Water-Stained Leaves (B9)			raphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutra	Il Test (D5)
Field Observations: Surface Water Present? Yes No No	Depth (inches):		
Water Table Present? Yes No	Depth (inches):		
	Depth (inches):	Wetland Hydrology Prese	nt? Yes O No O
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring w	vell, aerial photos, previous inspec		
Remarks:			
Hydrological indicators observed.			

VEGETATION (Four Strata) – Use scientific names of plants.

201	Absolute			Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30') 1)	% Cover		cies?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2					Total Number of Dominant
3					Species Across All Strata: 2 (B)
4					
5			-		Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0 (A/B)
6		-	\dashv		Prevalence Index worksheet:
7		L			Total % Cover of: Multiply by:
0.0	0				OBL species 0 $x 1 = 0$
50% of total cover: 0.0	20% of	total	cover:	0.0	FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size: 15')		г	\neg		
1			┽		FAC species 0 $x 3 = 0$
2			┽		FACU species $\frac{0}{7}$ $x = \frac{0}{35}$
3		<u> </u>	┵		UPL species $\frac{7}{7}$ $x = \frac{35}{2}$
4					Column Totals: <u>7</u> (A) <u>35</u> (B)
5					Prevalence Index = B/A = 5.00
6			\Box $lacksquare$		Hydrophytic Vegetation Indicators:
7		г			1 - Rapid Test for Hydrophytic Vegetation
8					
9		T	\neg		2 - Dominance Test is >50%
	0	= Tota	al Cov	er	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: <u>0.0</u>					4 - Morphological Adaptations (Provide supporting
Herb Stratum (Plot size: 5')					data in Remarks or on a separate sheet)
1. Zea mays	5		√	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carex pensylvanica	2		√	UPL	
3					¹ Indicators of hydric soil and wetland hydrology must
4					be present, unless disturbed or problematic.
5			┪		Definitions of Four Vegetation Strata:
			十		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6			\dashv		more in diameter at breast height (DBH), regardless of
7			_		height.
8			╅		Sapling/Shrub – Woody plants, excluding vines, less
9			+		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10			╅		
11	7				Herb – All herbaceous (non-woody) plants, regardless
500/ -54-4-1	<u> </u>		al Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>3.5</u>	20% of	totai	cover:	1.4	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30')		Г	\neg		height.
1		_ <u></u>	┽		
2			+		
3			+		
4		-	_		Hydrophytic
5		L			Vegetation Present? Yes No
			al Cov		Present? Yes No
50% of total cover: 0.0	20% of	total	cover:	0.0	
Remarks: (Include photo numbers here or on a separate s	sheet.)				
Upland plant community observed.					
- France France					

Sampling Point: STP-02

SOIL Sampling Point: STP-02

Depth	cription: (Describe	·		x Feature				,
inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
)-16	10YR 3/2	100					SiL	heavy silt/degraded sandstone throughout
								-
		· —— -						
	-							-
Γvpe: C=C	oncentration, D=Dep	letion. RM=F	Reduced Matrix. M	S=Masked	Sand Gra	ins.	² Location: P	L=Pore Lining, M=Matrix.
	Indicators:	,	,					ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	e (S7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (M	LRA 147.		Coast Prairie Redox (A16)
_	istic (A3)		Thin Dark Su		. , .		,	(MLRA 147, 148)
_	en Sulfide (A4)		Loamy Gleye			, -,	□ F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		,		_	(MLRA 136, 147)
_	uck (A10) (LRR N)		Redox Dark		6)		\square \lor	/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da	,	,			Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F	8)			
Sandy N	Mucky Mineral (S1) (I	RR N,	Iron-Mangan	ese Mass	es (F12) (I	RR N,		
MLR	A 147, 148)		MLRA 13	66)				
Sandy 0	Gleyed Matrix (S4)		Umbric Surfa	ace (F13) (MLRA 13	6, 122)	³ Ind	licators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	oodplain S	oils (F19)	(MLRA 14	8) we	etland hydrology must be present,
	l Matrix (S6)		Red Parent I	Material (F	21) (MLR	A 127, 147	') un	lless disturbed or problematic.
estrictive	Layer (if observed):							
Туре:			<u> </u>					
Depth (in	ches):						Hydric Soil	Present? Yes O No O
Remarks:	,							
	oil indicators obser							
ગાંs are siલ	nificantly disturbe	d due to ag	ricultural activity					

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Rura Field	City/County: Blairsville/Indiana	Samp	oling Date: 09/13/2024
Applicant/Owner: Homer City Generation LP		tate: PA Sai	mpling Point: STP-03
Investigator(s): Crystal Roemer, Trevor Surgener	Section, Township, Range:		
Landform (hillslope, terrace, etc.): depression	Local relief (concave, convex, none):	concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR N Lat: 40.50079	0° Long: <u>-79.18</u>	6812°	NAD83
Soil Map Unit Name: TyA: Tyler silt loam, 0 to 2 percent slop		NWI classification:	N/A
Are climatic / hydrologic conditions on the site typical for this time of		o, explain in Remark	
Are Vegetation, Soil, or Hydrology significa		cumstances" present	? Yes <u> </u>
Are Vegetation, Soil, or Hydrology naturally		ain any answers in R	
SUMMARY OF FINDINGS – Attach site map show	ng sampling point locations	, transects, imp	ortant features, etc.
Hydrophytic Vegetation Present? Yes O No O			
Hydric Soil Present? Yes No O	Is the Sampled Area	Yes O N	. ()
Wetland Hydrology Present? Yes O No O	within a Wetland?	res N	<u> </u>
Remarks:	-		
Weather: Sunny/Clear, 80°F. Precipitation in Past 24 Hours PA-IN-4: Indiana 2.8 E)	: 0.00", Total Precipitation in Pas	t 7 Days: 0.84" (Co	CoRaHS Station
17 A-114-4. IIIulalia 2.0 L)			
STP-03 is located in a depression within PEM wetland W-0	1.		
HYDROLOGY			
Wetland Hydrology Indicators:	Se	condary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is required; check all that app	ly)	Surface Soil Cracks	s (B6)
Surface Water (A1)	c Plants (B14)	Sparsely Vegetated	I Concave Surface (B8)
High Water Table (A2) Hydrogen S	ulfide Odor (C1)	Drainage Patterns ((B10)
Saturation (A3) Oxidized Ri	izospheres on Living Roots (C3)	Moss Trim Lines (B	16)
Water Marks (B1) Presence o	Reduced Iron (C4)	Dry-Season Water	Table (C2)
Sediment Deposits (B2)	Reduction in Tilled Soils (C6)	Crayfish Burrows (0	C8)
Drift Deposits (B3)	Surface (C7)	Saturation Visible o	n Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Expl	ain in Remarks)	Stunted or Stressed	d Plants (D1)
Iron Deposits (B5)	$\overline{\checkmark}$	Geomorphic Position	on (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D	03)
Water-Stained Leaves (B9)		Microtopographic R	elief (D4)
Aquatic Fauna (B13)	\checkmark	FAC-Neutral Test (I	D5)
Field Observations:			
Surface Water Present? Yes O No Depth (incl			
	nes):		
Saturation Present? Yes O No Depth (includes capillary fringe)	es): Wetland Hyd	rology Present? Y	es O No O
Describe Recorded Data (stream gauge, monitoring well, aerial pl	notos, previous inspections), if availab	le:	
Remarks:			
Hydrological indicators observed.			

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: STP-03
001	Absolute		Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30'	% Cover		Status	Number of Dominant Species
1			_	That Are OBL, FACW, or FAC: 3 (A)
2			_	Total Number of Dominant
3		+	_	Species Across All Strata: 3 (B)
4			-	Percent of Dominant Species
5			_	That Are OBL, FACW, or FAC: 100.0 (A/B)
6			_	Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
500/ office 0.000 0.000		= Total Co		OBL species <u>5</u> <u>x 1 = 5</u>
50% of total cover: 0.0	20% 01	total cove	r <u>. 0.0</u>	FACW species 45 $\times 2 = 90$
Sapling/Shrub Stratum (Plot size: 15')				FAC species 20 x 3 = 60
1			_	FACU species $0 \times 4 = 0$
2			_	UPL species 0 $x = 0$
3			_	Column Totals: 70 (A) 155 (B)
4				
5				Prevalence Index = B/A = 2.21
6				Hydrophytic Vegetation Indicators:
7			_	1 - Rapid Test for Hydrophytic Vegetation
8		+	_	2 - Dominance Test is >50%
9	•	Total Co		3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0.0				4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Panicum dichotomiflorum	25	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Echinochloa crus-galli	20	<u> </u>	FAC	
3. Cyperus esculentus	20	√	FACW	¹ Indicators of hydric soil and wetland hydrology must
4 Glyceria striata	5		OBL	be present, unless disturbed or problematic.
5				Definitions of Four Vegetation Strata:
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				Herb – All herbaceous (non-woody) plants, regardless
	70	= Total Co	- ver	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>35.0</u>	20% of	total cove	r: <u>14.0</u>	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30')				height.
1			_	_
2				
3			_	
4				Hydrophytic
5				Vegetation
		= Total Co		Present? Yes No No
50% of total cover: 0.0		total cove	r:0.0	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Hydrophytic plant community observed.				
, , , ,				

	•	to the de	oth needed to docur			or confirr	n the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type ¹ _	Loc ²	Texture	Remarks
0-4	10YR 5/2	90	7.5YR 5/8	10	C	PL	SiL	romano
4-16	2.5Y 4/1	70	7.5YR 5/8	15	С	PL	SiL	
	2.01 4/1			15	_ <u>=</u> D	M	OIL	
			Gley 1 2.5/N	13				
					_			
					-			
1 _{Tymax} C=C	encentration D=De	nlotion DM	=Reduced Matrix, M		d Cand Cr	nino	2l costion. Di	- Doro Lining M-Motriy
Hydric Soil		pietion, Riv	i-Reduced Matrix, Mi	5-Maske	a Sana Gr	airis.		L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	e (S7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ace (S8) (N	ILRA 147		oast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)		L P	iedmont Floodplain Soils (F19)
	d Layers (A5) uck (A10) (LRR N)		✓ Depleted Ma ✓ Redox Dark		TE6)			(MLRA 136, 147) ery Shallow Dark Surface (TF12)
	d Below Dark Surfa	ce (A11)	Depleted Da		' '			ther (Explain in Remarks)
	ark Surface (A12)	()	Redox Depre					(=:4:,
_	/lucky Mineral (S1)	LRR N,	☐ Iron-Mangan		ses (F12) (LRR N,		
	A 147, 148)		MLRA 13				3	
	Gleyed Matrix (S4) Redox (S5)		Umbric Surfa					icators of hydrophytic vegetation and tland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	Layer (if observed)):			/ (1	
Туре:								
	ches):						Hydric Soil	Present? Yes O No
Remarks:								
Hydric soil i	ndicators observe	ed.						
Soils are co	mpacted and sigr	nificantly d	listurbed due to ag	ricultura	l activity.			
İ								

Project/Site: Rura Field	City/County: Blairsville/Ind	iana	Sampling Date: 09/13/2024
Applicant/Owner: Homer City Generation LP	_ , ,	State: PA	Sampling Point: STP-04
Investigator(s): Crystal Roemer, Trevor Surgener	Section, Township, Range:	_	
	Local relief (concave, convex, n	one): none	Slope (%): 0-2
Subregion (LRR or MLRA): LRR N Lat: 40.50082	8° Long: <u>-7</u>		Datum: NAD83
Soil Map Unit Name: TyA: Tyler silt loam, 0 to 2 percent slope		NWI classifica	
Are climatic / hydrologic conditions on the site typical for this time of		 (If no, explain in Re	
Are Vegetation, Soil, or Hydrology significar		al Circumstances" pr	esent? Yes O No
Are Vegetation, Soil, or Hydrology naturally		explain any answers	
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point locat	ions, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes No			
Hydric Soil Present? Yes No O	Is the Sampled Area	v 0	No ①
Wetland Hydrology Present? Yes No No	within a Wetland?	res	_ NO <u> </u>
Remarks:			
Weather: Sunny/Clear, 80°F. Precipitation in Past 24 Hours PA-IN-4: Indiana 2.8 E)	: 0.00", Total Precipitation in	Past 7 Days: 0.84	" (CoCoRahs Station
STP-04 is located adjacent to STP-03 and wetland W-01 in	an upland area.		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicate	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	y)	✓ Surface Soil C	Cracks (B6)
Surface Water (A1)	Plants (B14)	Sparsely Vege	etated Concave Surface (B8)
	ulfide Odor (C1)	Drainage Patt	erns (B10)
	izospheres on Living Roots (C3)		, ,
	Reduced Iron (C4)		/ater Table (C2)
	Reduction in Tilled Soils (C6)	Crayfish Burro	
Drift Deposits (B3) Thin Muck S Other (Father)	, ,		ible on Aerial Imagery (C9)
	iin in Remarks)	Geomorphic F	essed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)		Shallow Aquita	` '
Water-Stained Leaves (B9)			phic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral 7	
Field Observations:		1710 11041141	
Surface Water Present? Yes O No Depth (inch	es):		
	es):		
Saturation Present? Yes O No O Depth (inch	es): Wetland	Hydrology Present	? Yes <u> </u>
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if a	vailable:	
Remarks:			
Hydrologic indicators observed.			
Trydrologic indicators observed.			
I and the second			

Sampling Point: STP-04 **VEGETATION** (Four Strata) – Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** <u>Tree Stratum</u> (Plot size: 30') % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: <u>0</u> (A) **Total Number of Dominant** 2 ____ (B) Species Across All Strata: Percent of Dominant Species 0.0 (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: 7.

	0 = Total Cover	Total % Cover of: Multiply by:
50% of total cover: 0.0	20% of total cover: 0.0	OBL species $\frac{5}{}$ $\times 1 = \frac{5}{}$
Sapling/Shrub Stratum (Plot size: 15')		FACW species $\frac{5}{x^2}$ $x^2 = \frac{10}{x^2}$
		FAC species <u>0</u> x 3 = <u>0</u>
1		FACU species 20 x 4 = 80
2		UPL species 15 x 5 = 75
3		Column Totals: 45 (A) 170 (B)
4		Column Totals. 15 (A) 110 (B)
5		Prevalence Index = B/A = 3.78
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
8		2 - Dominance Test is >50%
9		
	0 = Total Cover	3 - Prevalence Index is ≤3.0¹
50% of total cover: 0.0	20% of total cover: 0.0	4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')		data in Remarks or on a separate sheet)
1. Zea mays	15 U PL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Cirsium arvense	10 ✓ FAC	
3. Cyperus esculentus	5 FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Glyceria striata	5 OBL	Definitions of Four Vegetation Strata:
5. Physalis pubescens	5 FAC	U Definitions of Four Vegetation Strata.
6. Phytolacca americana	5 FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7		more in diameter at breast height (DBH), regardless of height.
8		noight.
9		Sapling/Shrub – Woody plants, excluding vines, less
		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10		
11	4.5	Herb – All herbaceous (non-woody) plants, regardless
500/ official courses 22.5	= Total Cover	of size, and woody plants less than 3.28 ft tall.
	20% of total cover: 9.0	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30')		height.
1		_
2		
3		
4		Hydrophytic
5		Vegetation
	0 = Total Cover	Present? Yes No No
50% of total cover: <u>0.0</u>	20% of total cover: 0.0	
Remarks: (Include photo numbers here or on a separate s	sheet.)	
Upland plant community observed.	,	

US Army Corps of Engineers

	•	to the de	oth needed to docur			or confir	n the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Feature %	es Type ¹ _	Loc ²	Texture	Remarks
0-4	10YR 4/3	90	7.5YR 4/6	10	C	PL	SiL	romano
4-16	2.5Y 4/1	70	7.5YR 5/8	15	С	PL	SiCL	
	2.01 4/1	70		15	_ <u>=</u> D	M	OIOL	
		_	Gley 1 2.5/N	13				
		_			_			
		_			-			
		-						
		-			_			
1		- Intima DN	L De desert Markins Mr	2 Martin	1010-		21	Daniel Lindon M. Matthe
Hydric Soil		pietion, Riv	=Reduced Matrix, MS	5=Maske	ed Sand Gra	ains.		.=Pore Lining, M=Matrix. tors for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ace (S8) (N	ILRA 147		past Prairie Redox (A16)
	istic (A3)		Thin Dark Su					(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)			edmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		(FC)			(MLRA 136, 147)
	uck (A10) (LRR N) d Below Dark Surfac	ce (A11)	Redox Dark	,	' '			ery Shallow Dark Surface (TF12) ther (Explain in Remarks)
_ :	ark Surface (A12)	50 (7111)	Redox Depre					ino (Explain in Nomano)
	/lucky Mineral (S1)	LRR N,	Iron-Mangan			LRR N,		
	A 147, 148)		MLRA 13	•			3	
	Gleyed Matrix (S4)		Umbric Surfa					cators of hydrophytic vegetation and
	Redox (S5) I Matrix (S6)		Piedmont Flo					land hydrology must be present, ess disturbed or problematic.
	Layer (if observed)	:		viatoriai (· / (=. ·	, , , <u>-</u> , , , ,	1	see distance of problematic.
Type:								
	ches):						Hydric Soil	Present? Yes O No O
Remarks:								
Hydric soil i	ndicators observe	d.						
Soils are co	mpacted and sigr	ificantly o	listurbed due to agı	ricultura	l activity.			

Project/Site: RURA Field	City/County: Blairsville/Indian	a sa	ampling Date: 09/13/2024					
Applicant/Owner: Homer City Generation LP		State: PA	Sampling Point: STP-05					
Investigator(s): Crystal Roemer, Trevor Surgener	Section, Township, Range:							
Landform (hillslope, terrace, etc.): depression	Local relief (concave, convex, none): concave	Slope (%): <u>2-4</u>					
Subregion (LRR or MLRA): LRR N Lat: 40.5004	53° Long:79.18	36135°	Datum: NAD83					
Soil Map Unit Name: TyA: Tyler silt loam, 0 to 2 percent slop	es	_ NWI classification	on: <u>N/A</u>					
Are climatic / hydrologic conditions on the site typical for this time of Are Vegetation, Soil, or Hydrology signification, Soil, or Hydrology naturally	ntly disturbed? Are "Normal C	no, explain in Rem	arks.) sent? Yes <u>O</u> No <u>O</u>					
SUMMARY OF FINDINGS – Attach site map show		-						
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes O No O N	Is the Sampled Area within a Wetland?	Yes_O_	_					
Remarks: Weather: Sunny/Clear, 80°F. Precipitation in Past 24 Hours: 0.00", Total Precipitation in Past 7 Days: 0.84" (CoCoRahs Station PA-IN-4: Indiana 2.8 E) STP-05 is located in an upland area on the fringe of an agricultural field, southeast of wetland W-01 and north of wetland W-02								
HYDROLOGY								
Wetland Hydrology Indicators:	S	_	s (minimum of two required)					
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Hydrogen S Oxidized R Presence of Recent Iron	coly) ic Plants (B14) Sulfide Odor (C1) inizospheres on Living Roots (C3) f Reduced Iron (C4) Reduction in Tilled Soils (C6) Surface (C7) ain in Remarks)	Drainage Patter Moss Trim Lines Dry-Season Wa Crayfish Burrow Saturation Visib	ated Concave Surface (B8) ns (B10) s (B16) ter Table (C2) rs (C8) le on Aerial Imagery (C9) ssed Plants (D1) sition (D2) d (D3) ic Relief (D4)					
	hes):							
Water Table Present? Yes No Depth (inc	· — — —							
Saturation Present? Yes O No O Depth (includes capillary frings)	nes): Wetland Hy	drology Present?	Yes O No O					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial p	notos, previous inspections), if availa	ble:	3					
Remarks:								
One secondary hydrological indicator observed, not enoug	h to qualify wetland hydrology.							
	, , , , ,							

/EGETATION (Four Strata) – Use scientific names of plants.	Sampling Point: STP-05
Absolute Dominant Indicator Dominance	e Test worksheet:
	Dominant Species
	DBL, FACW, or FAC: 1 (A)
2 Total Numl	ber of Dominant
	cross All Strata: 1 (B)
	Dominant Species
	DBL, FACW, or FAC: 100.0 (A/B)
6. Prevalenc	e Index worksheet:
7	% Cover of: Multiply by:
50% of total cover: 0.0 20% of total cover: 0.0 OBL specie	0
Sapling/Shrub Stratum (Plot size: 15') FACW spe	ecies 85 x 2 = 170
1	
2. FACU spec	cies <u>10</u> x 4 = <u>40</u>
3. UPL specie	
4. Column To	otals: 100 (A) 225 (B)
r	2.25
	alence Index = B/A = 2.25
7	tic Vegetation Indicators:
	pid Test for Hydrophytic Vegetation
	minance Test is >50%
0 - Total Cover	evalence Index is ≤3.0¹
50% of total cover: 0.0 20% of total cover: 0.0	rphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5	a in Remarks or on a separate sheet)
1. Panicum dichotomiflorum 60 FACW FACW	ematic Hydrophytic Vegetation ¹ (Explain)
2. Cyperus esculentus 10 FACW	of handring and another distribution to the second
	of hydric soil and wetland hydrology must , unless disturbed or problematic.
4. Vernonia noveboracensis 10 FACW Definition	s of Four Vegetation Strata:
5. Persicaria pensylvanica 5 FACW	-
	ody plants, excluding vines, 3 in. (7.6 cm) or ameter at breast height (DBH), regardless of
7 height.	amotor at broadt holght (BBH), regardeds of
8. Sanling/Si	hrub – Woody plants, excluding vines, less
	DBH and greater than or equal to 3.28 ft (1
10 m) tall.	
11 Herb – All	herbaceous (non-woody) plants, regardless
	d woody plants less than 3.28 ft tall.
50% of total cover: 50.0 20% of total cover: 20.0 Woody vir	ne – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 height.	, <u> </u>
1	
2	
3	
4 Hydrophy	
5. Vegetation Present?	Yes O No O
50% of total cover: 0.0 20% of total cover: 0.0	<u></u>
Remarks: (Include photo numbers here or on a separate sheet.)	
Tremains. (include proto flumbers field of on a separate sheet.)	
Hydrophytic plant community observed.	

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	n the absence of	indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 4/3	90	7.5YR 4/6	10	<u>C</u>	PL	SiL	
4-16	2.5Y 4/1	70	7.5YR 5/8	15	С	PL	SiCL	
			Gley 1 2.5/N	15	D	M		
					_			_
					_			
		- ——			_			
					_			
¹Type: C=Co	oncentration D=Den	letion RM:	=Reduced Matrix, MS	= S=Maske	d Sand Gr	ains	² l ocation: PI =F	Pore Lining, M=Matrix.
Hydric Soil I		octori, raw	Troduced Matrix, Mc	- WIGORO	a Garia Gri	anio.		rs for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				n Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		ace (S8) (N	II RA 147		st Prairie Redox (A16)
Black Hi			Thin Dark Su					ILRA 147, 148)
	n Sulfide (A4)		✓ Loamy Gleye	•	, .	47, 140)		Imont Floodplain Soils (F19)
	Layers (A5)		✓ Depleted Mat		(· -)			MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark		F6)			Shallow Dark Surface (TF12)
	Below Dark Surfac	e (A11)	Depleted Dar					er (Explain in Remarks)
	ark Surface (A12)	- ()	Redox Depre					(=: (=: (=: (=: (=: (=: (=: (=: (=: (=:
	lucky Mineral (S1) (I	LRR N.	Iron-Mangan			LRR N,		
_	\ 147, 148)	,	MLRA 13		` / `	,		
	leyed Matrix (S4)		Umbric Surfa		(MLRA 13	6, 122)	³ Indica	tors of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					nd hydrology must be present,
	Matrix (S6)		Red Parent N					s disturbed or problematic.
	_ayer (if observed):			•				•
Type:	,							
Depth (inc	ches).						Hydric Soil Pr	esent? Yes O No
							Tiyano con Ti	
Remarks:								
Hydric soil ir	ndicators observed	d.						
Soils are co	mpacted and sign	ificantly d	sturbed.					

Project/Site: Rura Field	City/County: Blair	sville/Indiana	Sampling Date: 09/13/2024
Applicant/Owner: Homer City Generation LP		State: PA	Sampling Point: STP-06
Investigator(s): Crystal Roemer, Trevor Surgener	Section, Township		
Landform (hillslope, terrace, etc.): depression		convex, none): concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR N Lat:	40.50008833	Long: -79.18599833	Datum: NAD83
Soil Map Unit Name: MoA: Monongahela silt loam,		NWI classif	
Are climatic / hydrologic conditions on the site typical for	_		
Are Vegetation, Soil, or Hydrology			present? Yes O No
Are Vegetation, Soil, or Hydrology		(If needed, explain any answ	
SUMMARY OF FINDINGS – Attach site ma		nt locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes	No O		
Hydric Soil Present? Yes	No lis the Sam) _{No} O
Wetland Hydrology Present? Yes	No within a W	etiand? Yes	/ NO
Remarks:	<u> </u>		
Weather: Sunny/Clear, 80°F. Precipitation in Pas PA-IN-4: Indiana 2.8 E)	t 24 Hours: 0.00", Total Precip	pitation in Past 7 Days: 0.	84" (CoCoRahs Station
STP-06 is located in a depression within a PEM v	vetland, inside of a utility ROV	V.	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	Surface Soi	l Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage P	atterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living	Roots (C3) Moss Trim I	Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Seasor	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Sc	oils (C6) Crayfish Bu	rrows (C8)
Drift Deposits (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)		⊈ Geomorphi	c Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aq	uitard (D3)
Water-Stained Leaves (B9)		<u>✓</u> Microtopog	raphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutra	al Test (D5)
Field Observations:			
	Depth (inches):		
	Depth (inches):		
Saturation Present? Yes Ves No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Prese	ent? Yes O No O
Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previous inspec	tions), if available:	
Remarks:			
Hydrological indicators observed.			

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: STP-06
0.01	Absolute			Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30')		Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3		- - -	-	Species Across All Strata: 3 (B)
4		-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100.0 (A/B)
6		- - -		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
50% of total cover: 0.0		= Total Cov		OBL species 20 x 1 = 20
Sapling/Shrub Stratum (Plot size: 15')	20 /6 01	total cover		FACW species 50 x 2 = 100
1. Cornus amomum	5	$\overline{\checkmark}$	FACW	FAC species $0 \times 3 = 0$
2		- 	-	FACU species 10 x 4 = 40
				UPL species 0 x 5 = 0
3				Column Totals: <u>80</u> (A) <u>160</u> (B)
4 5				
6				Prevalence Index = B/A = 2.00
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9				2 - Dominance Test is >50%
0	_	= Total Cov	/er	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 2.5				4 - Morphological Adaptations (Provide supporting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Epilobium coloratum	20	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Glyceria striata	15	✓	OBL	1
3. Solidago gigantea	10		FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Vernonia noveboracensis	10		FACW	Definitions of Four Vegetation Strata:
5. Apocynum cannabinum	10		FACU	
6. Rhynchospora alba	5		OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Juncus effusus	5		FACW	height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 37.5	20% of	total cover	15.0	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30')				height.
1			-	
2			-	
3				
4		-		Hydrophytic
5	^			Vegetation Present? Yes No O
50% of total cover: 0.0		= Total Co\ total cover		103 <u>3</u> 110 <u>3</u>
		total cover		
Remarks: (Include photo numbers here or on a separate s	neet.)			
Hydrophytic plant community observed.				

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the	indicator	or confirn	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 5/2	75	10YR 5/8	10	С	PL	SiCL	
			7.5YR 4/6	10	С	PL		
			10YR 3/4	5	D	M		
			10111 0/1				·	<u> </u>
					-			
					-			
				-				
					-		-	
							-	-
					-			
¹Type: C=Co	oncentration, D=Depl	etion. RM=	Reduced Matrix. MS	S=Maske	d Sand Gr	ains.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I								ators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ace (S8) (N	ILRA 147,		Coast Prairie Redox (A16)
Black His			Thin Dark Su				, <u> </u>	(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix	(F2)		<u> </u>	Piedmont Floodplain Soils (F19)
	l Layers (A5)		✓ Depleted Ma					(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark	,	,			ery Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar		. ,			Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre			LDDN		
	lucky Mineral (S1) (L	.KK N,	Iron-Mangan		ses (F12) (LKK N,		
	147, 148) sleyed Matrix (S4)		MLRA 13 Umbric Surfa		(MI DA 13	6 122)	³ Ind	licators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	ayer (if observed):			(/ (1	
Type:	,							
	ches):						Hydric Soil	Present? Yes O No
Remarks:							1.,,	
Hydric soil ir	ndicators observed	l.						

Project/Site: Rura Field	City/County: Bla	irsville/Indiana	Sampling Date: 10/16/2024
Applicant/Owner: Homer City Generation LP		State: PA	Sampling Point: STP-07
Investigator(s): Crystal Roemer, Trevor Surgener	Section, Townsh		
Landform (hillslope, terrace, etc.): depression		e, convex, none):	Slope (%): 2-4
Subregion (LRR or MLRA): LRR N Lat:	40.49916481°	Long: -79.18318245°	Datum: NAD83
Soil Map Unit Name: MoA: Monongahela silt loam,		NWI clas	
Are climatic / hydrologic conditions on the site typical for	_		
Are Vegetation, Soil, or Hydrology			es" present? Yes O No O
Are Vegetation , Soil , or Hydrology		(If needed, explain any an	
SUMMARY OF FINDINGS – Attach site ma	ap showing sampling po		
Hydrophytic Vegetation Present? Yes	No O		
Hydric Soil Present? Yes	Is the Sai	mpled Area	⊙ _{No} ○
Wetland Hydrology Present? Yes	No within a \	vetiand? Yes	<u> </u>
Remarks:			
Weather: Overcast, 48°F. Precipitation in Past 24 Indiana 2.8 E)	Hours: 0.03", Total Precipit	ation in Past 7 Days: 0.3	8" (CoCoRahs Station PA-IN-4:
STP-07 is located in a depression within a PSS v	vetland, part of a large wetla	nd complex.	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary In	dicators (minimum of two required)
Primary Indicators (minimum of one is required; 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)	Oxidized Rhizospheres on Living	g Roots (C3) 🔽 Moss Tri	m Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Seas	son Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled S	Soils (C6) Crayfish	Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation	n Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted of	or Stressed Plants (D1)
Iron Deposits (B5)		✓ Geomorp	phic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow i	Aquitard (D3)
Water-Stained Leaves (B9)		Microtop	ographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neu	utral Test (D5)
Field Observations:			
	Depth (inches):		
	Depth (inches):	Wetland Hydrology Pre	esent? Yes O No O
(includes capillary fringe)			esent? Yes O NO O
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous inspe	ctions), if available:	
Remarks:			
Hydrological indicators observed.			

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: STP-07
	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30'		Species?		Number of Dominant Species
1. Quercus rubra	10	_ ✓	FACU	That Are OBL, FACW, or FAC: 4 (A)
2. Salix nigra	10	\checkmark	FACW	Total Number of Demains on
3				Total Number of Dominant Species Across All Strata: 5 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B)
6				That Are OBL, FACW, or FAC: 80.0 (A/B)
				Prevalence Index worksheet:
7	~~			Total % Cover of: Multiply by:
500/ official course. 10.0		= Total Cov		OBL species $0 x 1 = 0$
50% of total cover: 10.0	20% 01	total cover	4.0	FACW species 45 x 2 = 90
Sapling/Shrub Stratum (Plot size: 15')	30		FAC	FAC species 35 x 3 = 105
1. Cornus racemosa		<u> </u>		FACU species 10 x 4 = 40
2. Virburnum dentatum	5		FAC	
3				UPL species $0 \times 5 = 0$
4				Column Totals: 90 (A) 235 (B)
5				Prevalence Index = B/A = 2.61
6				
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8		\vdash		2 - Dominance Test is >50%
9	~ -			3 - Prevalence Index is ≤3.0 ¹
50% of total cover: <u>17.5</u>		= Total Cov		4 - Morphological Adaptations ¹ (Provide supporting
	20% 01	total cover.	7.0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5') 1. Lysimachia nummularia	35	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
		<u> </u>		
2. Carex pensylvanica	10	+	NI	¹ Indicators of hydric soil and wetland hydrology must
3. Salix nigra	5	<u> </u>	FACW	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less
40				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11	50			Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: 25.0		= Total Cov		of size, and woody plants less than 3.28 ft tall.
·	20% 01	total cover.	10.0	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30')				height.
1		-#-		
2				
3				
4				Hydrophytic
5				Vagatation
	0	= Total Cov	er	Present? Yes No No
50% of total cover: 0.0	20% of	total cover:	0.0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
Hydrophytic plant community observed.				

Profile Desc	cription: (Describe	to the dep	h needed to docun	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox Features Color (moist) % Typo 1 Loc2					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-14"	10YR 5/2	85	7.5YR 5/8	10	С	PL	SiCL	
			10YR 3/4	5	D	M		
					-			
	-				-			<u> </u>
					_			
					-			
	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location: PL	_=Pore Lining, M=Matrix.
Hydric Soil	Indicators:		_				Indica	tors for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				cm Muck (A10) (MLRA 147)
Histic E	oipedon (A2)		Polyvalue Be				148) Co	oast Prairie Redox (A16)
Black Hi			Thin Dark Su			47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		<u> </u>	edmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		E 0)			(MLRA 136, 147)
	ick (A10) (LRR N) d Below Dark Surfac	o (A11)	Redox Dark S Depleted Dar					ery Shallow Dark Surface (TF12) ther (Explain in Remarks)
	ark Surface (A12)	e (ATT)	Redox Depre		. ,			tilei (Explaiii iii Remarks)
	lucky Mineral (S1) (L	RR N.	Iron-Mangane			LRR N.		
	\ 147, 148)		MLRA 136		/ (,		
	Gleyed Matrix (S4)		Umbric Surfa		(MLRA 13	6, 122)	³ Indi	cators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					tland hydrology must be present,
Stripped	Matrix (S6)		Red Parent M	laterial (I	F21) (MLR	A 127, 147	7) unl	ess disturbed or problematic.
Restrictive	Layer (if observed):							
Туре:								
Depth (in	ches):						Hydric Soil	Present? Yes O No O
Remarks:								
I la calcata a a sil di								
Hyaric soil i	ndicators observed	1.						

Project/Site: Rura Field	City/County: Bla	airsville/Indiana	Sampling Date: 10/16/2024						
Applicant/Owner: Homer City Generation LP		State: PA	Sampling Point: STP-08						
Investigator(s): Crystal Roemer, Trevor Surgener	Section, Townsh		<u> </u>						
Landform (hillslope, terrace, etc.): flat		re, convex, none): none	Slope (%): 0-2						
	40.49909500	Long: -79.18241333							
Subregion (LRR or MLRA): LRR N Lat: Soil Map Unit Name: ChA: Chavies fine sandy loan	n, 0 to 2 percent slopes	NWI class	fication: N/A						
Are climatic / hydrologic conditions on the site typical for	_	_							
Are Vegetation, Soil, or Hydrology	1		" present? Yes O No O						
Are Vegetation, Soil, or Hydrology	1	(If needed, explain any ansv							
SUMMARY OF FINDINGS – Attach site ma									
Hydrophytic Vegetation Present? Hydric Soil Present? Yes Yes	No within a	mpled Area Wetland? Yes) No <u>•</u>						
Wetland Hydrology Present? Yes	No								
Remarks: Weather: Overcast, 48°F. Precipitation in Past 24 Hours: 0.03", Total Precipitation in Past 7 Days: 0.38" (CoCoRahs Station PA-IN-4: Indiana 2.8 E) STP-09 is located in an upland area, on the edge of an agricultural field and adjacent to wetland W-02c.									
HYDROLOGY									
Wetland Hydrology Indicators:			cators (minimum of two required)						
Primary Indicators (minimum of one is required; check			oil Cracks (B6)						
	True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)		regetated Concave Surface (B8) Patterns (B10)						
	Oxidized Rhizospheres on Livin		Lines (B16)						
	Presence of Reduced Iron (C4)	· · · ·	n Water Table (C2)						
Sediment Deposits (B2)	Recent Iron Reduction in Tilled		urrows (C8)						
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation	Visible on Aerial Imagery (C9)						
	Other (Explain in Remarks)		Stressed Plants (D1)						
Iron Deposits (B5)			ic Position (D2)						
Inundation Visible on Aerial Imagery (B7)			quitard (D3)						
Water-Stained Leaves (B9)			graphic Relief (D4)						
Aquatic Fauna (B13)		FAC-Neuti	ral Test (D5)						
Field Observations: Surface Water Present? Yes No O	Depth (inches):								
	Depth (inches):								
	Depth (inches):	Wetland Hydrology Pres	ent? Yes O No O						
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring w									
, , , , , ,									
Remarks: No hydrological indicators observed.									
The flydrological indicators observed.									

Sampling Point: STP-08 **VEGETATION** (Four Strata) – Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** <u>Tree Stratum</u> (Plot size: 30') % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant 2 ____ (B) Species Across All Strata: Percent of Dominant Species 50.0 That Are OBL, FACW, or FAC: ___ (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: = Total Cover 0 x 1 = 0 OBL species 50% of total cover: 0.0 __ 20% of total cover: 0.0 FACW species 0 x 2 = 0Sapling/Shrub Stratum (Plot size: 15') 20 x 3 = 60 FAC species FACU species 80 x 4 = 320 0 ____ x 5 = 0 UPL species Column Totals: 100 (A) 380

6	· -	\dashv		Prevalence Index = B/A = 3.80
6		┾┼╴		Hydrophytic Vegetation Indicators:
7		\dashv		1 - Rapid Test for Hydrophytic Vegetation
8		\dashv		2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 ¹
50% of total cover: 0.0	0 = T			4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')	20 /0 01 101	ai covei		data in Remarks or on a separate sheet)
1. Zea mays	60	\checkmark	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Microstegium vimenium	20	√	FAC	
3. Apocynum cannabinum	10		FACU	¹Indicators of hydric soil and wetland hydrology must
4. Glechoma hederacea	10	П	FACU	be present, unless disturbed or problematic.
5		П		Definitions of Four Vegetation Strata:
6		П		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8 <u>-</u>				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	100 = T	otal Cov	/er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50.0	20% of tot	al cover	20.0	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30')				height.
1		<u> </u>		
2		oxdot		
3		$\perp \!\!\! \perp$		
4		\vdash		Hydrophytic
5		Ш		Vegetation
	<u>0</u> = T	otal Cov	/er	Present? Yes No
50% of total cover: 0.0		al cover	0.0	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
Upland plant community observed.				
opiana piant community obodivou.				
S Army Corps of Engineers				Eastern Mountains and Piedmont – Version 2.0

Profile Desc	ription: (Describe	to the depth n	eeded to docu	ment the in	dicator	or confirm	the absenc	e of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-14"	10YR 3/4	100					L	
	-							
	-							
								-
¹ Type: C=Co	oncentration, D=Dep	letion, RM=Re	duced Matrix, M	S=Masked	Sand Gra	ins.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I		,	,		-			cators for Problematic Hydric Soils ³ :
Histosol		Γ	Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)	Ī	Polyvalue Be		e (S8) (M	LRA 147.		Coast Prairie Redox (A16)
Black His		Ĭ	Thin Dark Su				,	(MLRA 147, 148)
	n Sulfide (A4)	1	Loamy Gley			, -,		Piedmont Floodplain Soils (F19)
	Layers (A5)	Ī	Depleted Ma		,			(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark		6)			Very Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11) [∙	Depleted Da	•	,			Other (Explain in Remarks)
Thick Da	rk Surface (A12)		Redox Depre	essions (F8)			
Sandy M	lucky Mineral (S1) (L	.RR N,	Iron-Mangar	ese Masse	s (F12) (l	.RR N,		
MLRA	147, 148)	-	MLRA 13	6)				
Sandy G	leyed Matrix (S4)	Ĺ	Umbric Surfa	ace (F13) (N	ILRA 13	6, 122)	³ In	dicators of hydrophytic vegetation and
☐ Sandy R	edox (S5)	[Piedmont Flo	oodplain So	ils (F19)	MLRA 14	8) w	vetland hydrology must be present,
Stripped	Matrix (S6)		Red Parent I	Material (F2	21) (MLR /	127, 147	') u	nless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
	ches):		•				Hydric So	il Present? Yes O No O
Remarks:			-				yao oo	
Remarks.								
No hydric so	il indicators obser	ved.						

Project/Site: Rura Field	City/County: BI	airsville/Indiana	Sampling Date: 10/16/2024
Applicant/Owner: Homer City Generation LP		State: PA	Sampling Point: STP-09
Investigator(s): Crystal Roemer, Trevor Surgener	Section, Towns		<u> </u>
Landform (hillslope, terrace, etc.): flat		ve, convex, none): none	Slope (%): 0-2
Subregion (LRR or MLRA): LRR N Lat:	40.49909500	Long: -79.18241333	Datum: NAD83
Soil Map Unit Name: ChA: Chavies fine sandy loam		NWI class	
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology			" present? Yes O No O
Are Vegetation, Soil, or Hydrology		(If needed, explain any ansv	
SUMMARY OF FINDINGS – Attach site ma			
Hydrophytic Vegetation Present? Yes O	No O		
Hydric Soil Present? Yes	Is the Sa	ampled Area	No ①
Wetland Hydrology Present? Yes	No Within a	Wetland? Yes	<u> </u>
Remarks:			
Weather: Overcast, 48°F. Precipitation in Past 24 Indiana 2.8 E)	Hours: 0.03", Total Precip	itation in Past 7 Days: 0.38	" (CoCoRahs Station PA-IN-4:
STP-09 is located in an upland area, on the edge	of an agricultural field and	adjacent to wetland W-02d).
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Ind	icators (minimum of two required)
Primary Indicators (minimum of one is required; check	all that apply)	Surface So	oil Cracks (B6)
Surface Water (A1)	Γrue Aquatic Plants (B14)	Sparsely \	/egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	☐ Drainage F	Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Livir	ng Roots (C3) Moss Trim	Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Seaso	n Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled	Soils (C6) Crayfish B	urrows (C8)
Drift Deposits (B3)	Γhin 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)		Geomorph	ic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow A	quitard (D3)
Water-Stained Leaves (B9)		Microtopog	graphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neuti	ral Test (D5)
Field Observations:	5 (1 . 1 . 1		
	Depth (inches):		
	Depth (inches):	Wadan dilkala la ma Bara	ent? Yes O No O
(includes capillary fringe)	Depth (inches):	Wetland Hydrology Pres	ent? Yes O No O
Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previous insp	pections), if available:	
Remarks:			
No hydrological indicators observed.			

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: STP-09 Absolute Tree Stratum (Plot size: 30') Absolute % Cover Species? Status Species? Status Species? Status Species Dominant Indicator Species Number of Dominant Species

30'	Absolute	Dominant		Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: 30') 1.	% Cover		Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1	(A)
2					(,,,
3		+		Total Number of Dominant Species Across All Strata: 2	(B)
4				Percent of Dominant Species	
5			_	That Are OBL, FACW, or FAC: 50.0	(A/B)
6		+	_	Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
	0 :			OBL species 0 $x 1 = 0$	
50% of total cover: 0.0	20% of	total cover	r:0.0	FACW species $0 \times 2 = 0$	
Sapling/Shrub Stratum (Plot size: 15')				FAC species 20 x 3 = 60	
1			-	FACU species 80 x 4 = 320	
2			_	UPL species 0 $x = 0$	
3			_	Column Totals: 100 (A) 380	(D)
4			_	Column Totals: 100 (A) 300	(B)
5			_	Prevalence Index = B/A = 3.80	
6		-	_	Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 ¹	
		= Total Co		4 - Morphological Adaptations ¹ (Provide suppo	ortina
50% of total cover: 0.0	20% of	total cover	r:0.0	data in Remarks or on a separate sheet)	3
Herb Stratum (Plot size: 5')	60		LIDI	Problematic Hydrophytic Vegetation ¹ (Explain	,
1. Zea mays	60	√	UPL	Теріотпалоттупортуло уодолалот (Ехріатт	<i>'</i>
2. Microstegium vimenium	20	✓	FAC	¹ Indicators of hydric soil and wetland hydrology mu	ıet
3. Apocynum cannabinum	10	<u></u>	FACU	be present, unless disturbed or problematic.	ust
4. Glechoma hederacea	10		FACU	Definitions of Four Vegetation Strata:	
5				- W	,
6			_	Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles	n) or
7			_	height.	
8 <u>.</u>				Sapling/Shrub – Woody plants, excluding vines, I	220
9				than 3 in. DBH and greater than or equal to 3.28 ft	t (1
10				m) tall.	,
11				Herb – All herbaceous (non-woody) plants, regard	lless
		= Total Co		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: 50.0 Woody Vine Stratum (Plot size: 30')	20% of	total cover	r: 20.0	Woody vine – All woody vines greater than 3.28 ft	t in
1				height.	
2					
		\Box	_		
3		\Box			
5		\Box		Hydrophytic	
J	•	Total Co	vor	Vegetation Present? Yes No	
50% of total cover: 0.0		total cover			
Remarks: (Include photo numbers here or on a separate s	heet.)				
Upland plant community observed.					

Profile Desc	ription: (Describe	to the depth n	eeded to docu	ment the in	dicator	or confirm	the absenc	e of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-14"	10YR 3/4	100					L	
	-							
	-							
								-
¹ Type: C=Co	oncentration, D=Dep	letion, RM=Re	duced Matrix, M	S=Masked	Sand Gra	ins.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I		,	,		-			cators for Problematic Hydric Soils ³ :
Histosol		Γ	Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)	Ī	Polyvalue Be		e (S8) (M	LRA 147.		Coast Prairie Redox (A16)
Black His		Ĭ	Thin Dark Su				,	(MLRA 147, 148)
	n Sulfide (A4)	1	Loamy Gley			, -,		Piedmont Floodplain Soils (F19)
	Layers (A5)	Ī	Depleted Ma		,			(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark		6)			Very Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11) [∙	Depleted Da	•	,			Other (Explain in Remarks)
Thick Da	rk Surface (A12)		Redox Depre	essions (F8)			
Sandy M	lucky Mineral (S1) (L	.RR N,	Iron-Mangar	ese Masse	s (F12) (l	.RR N,		
MLRA	147, 148)	-	MLRA 13	6)				
Sandy G	leyed Matrix (S4)	Ĺ	Umbric Surfa	ace (F13) (N	ILRA 13	6, 122)	³ In	dicators of hydrophytic vegetation and
☐ Sandy R	edox (S5)	[Piedmont Flo	oodplain So	ils (F19)	MLRA 14	8) w	vetland hydrology must be present,
Stripped	Matrix (S6)		Red Parent l	Material (F2	21) (MLR /	127, 147	') u	nless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
	ches):		•				Hydric So	il Present? Yes O No O
Remarks:			-				yao oo	
Remarks.								
No hydric so	il indicators obser	ved.						

Project/Site: Rura Field	_ City/County: Blairsville/Indiar	na s	ampling Date: 10/16/2024
Applicant/Owner: Homer City Generation LP	- , ,	State: PA	Sampling Point: STP-10
Investigator(s): Crystal Roemer, Trevor Surgener	Section, Township, Range:		
	Local relief (concave, convex, none	concave	Slope (%): 0-2
Subregion (LRR or MLRA): LRR N Lat: 40.500462	Long: <u>-79.1</u>	80480°	
Soil Map Unit Name: Pua: Purdy silt loam, 0 to 2 percent slope		NWI classificati	
Are climatic / hydrologic conditions on the site typical for this time of			
Are Vegetation, Soil, or Hydrology significan			sent? Yes O No
Are Vegetation, Soil, or Hydrology naturally		plain any answers	
SUMMARY OF FINDINGS – Attach site map showing		,	•
Hydrophytic Vegetation Present? Yes No O			
Hydric Soil Present? Yes No	Is the Sampled Area	Yes O	No. (0)
Wetland Hydrology Present? Yes O No O	within a Wetland?	res	NO <u> </u>
Remarks:			
Weather: Overcast, 48°F. Precipitation in Past 24 Hours: 0.0 Indiana 2.8 E)	3", Total Precipitation in Past	7 Days: 0.38" (Co	oCoRahs Station PA-IN-4:
STP-10 is located in an upland area, inside of an agricultura	I field where a NWI wetland wa	as previously ide	ntified.
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicato	rs (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	<u>') </u>	Surface Soil Cr	acks (B6)
Surface Water (A1)	Plants (B14)	Sparsely Veget	tated Concave Surface (B8)
High Water Table (A2) Hydrogen Su	lfide Odor (C1)	Drainage Patte	rns (B10)
Saturation (A3) Oxidized Rhi	zospheres on Living Roots (C3)	Moss Trim Line	es (B16)
Water Marks (B1) Presence of	Reduced Iron (C4)	Dry-Season Wa	ater Table (C2)
Sediment Deposits (B2)	Reduction in Tilled Soils (C6)	Crayfish Burrov	vs (C8)
Drift Deposits (B3)	ırface (C7)	Saturation Visit	ole on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Expla	n in Remarks)	Stunted or Stre	ssed Plants (D1)
Iron Deposits (B5)	Ļ	Geomorphic Po	
Inundation Visible on Aerial Imagery (B7)	Ļ	Shallow Aquita	
Water-Stained Leaves (B9)	Ļ	Microtopograph	
Aquatic Fauna (B13)	Ļ	FAC-Neutral Te	est (D5)
Field Observations: Surface Water Present? Yes No Depth (inche)	201		
	es):		
Saturation Present? Yes No Depth (inche)		/drology Present?	Yes O No O
(includes capillary fringe)	, 		res O NO O
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if avail	able:	
Remarks:			
One secondary hydrological indicator observed, not enough	to qualify wetland hydrology.		

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: STP-10
	Absolute		nt Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30')			s? Status	Number of Dominant Species
1		· - 		That Are OBL, FACW, or FAC: 0 (A)
2		· 	_	Total Number of Dominant
3		· 	_	Species Across All Strata: 2 (B)
4		-	_	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0 (A/B)
6		· 	_	Prevalence Index worksheet:
7		<u> </u>	_	Total % Cover of: Multiply by:
50% of total cover: 0.0	20% of			OBL species $0 x 1 = 0$
Sapling/Shrub Stratum (Plot size: 15')	20 /0 01	total cov	CI	FACW species $0 x 2 = 0$
1				FAC species x 3 = 0
2			_	FACU species 20 x 4 = 80
3				UPL species 80 x 5 = 400
				Column Totals: 100 (A) 480 (B)
4. 5.				
6				Prevalence Index = B/A = 4.80
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8		\dashv		2 - Dominance Test is >50%
<u> </u>	0	- Total C	over	3 - Prevalence Index is ≤3.0¹
50% of total cover: 0.0				4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Glycine max	80	\checkmark	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Tussilago farfara		√	FACU	
3				¹Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Four Vegetation Strata:
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Horb All berbassaus (non woody) plants, regardless
	80	= Total C	 over	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 40.0	20% of	total cov	er:_16.0	Manda de cina Allega de ceira a constante de 200 filia
Woody Vine Stratum (Plot size: 30')		_		Woody vine – All woody vines greater than 3.28 ft in height.
1				
2				
3				
4		_		Hydrophytic
5				Venetation
		= Total C		Present? Yes No No
50% of total cover: <u>0.0</u>		total cov	er: 0.0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
Upland plant community observed.				
Spland plant community observed.				

Profile Desc	ription: (Describe	to the depth r	needed to docu	ment the ir	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14"	10YR 3/3	100					SiCL	
	-	· — —						
		·						
	-	· — —						
		· 						
		· —— —						
		. <u> </u>						
¹ Type: C=Co	oncentration, D=Dep	letion, RM=Re	duced Matrix, M	S=Masked	Sand Gra	ins.	² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I		,	,					ators for Problematic Hydric Soils ³ :
Histosol		[Dark Surface	e (S7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)	ľ	Polyvalue Be		e (S8) (M	LRA 147.		Coast Prairie Redox (A16)
Black His		ĺ	Thin Dark Su				,	(MLRA 147, 148)
	n Sulfide (A4)	ľ	Loamy Gleye			, -,	□ F	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Ma	•	,			(MLRA 136, 147)
	ck (A10) (LRR N)	[Redox Dark		3)			/ery Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	✓ Depleted Da					Other (Explain in Remarks)
Thick Da	rk Surface (A12)	[Redox Depre	essions (F8	5)			
Sandy M	lucky Mineral (S1) (L	.RR N,	Iron-Mangan	ese Masse	s (F12) (l	.RR N,		
MLRA	147, 148)		MLRA 13	66)				
Sandy G	leyed Matrix (S4)	<u> </u>	Umbric Surfa	ace (F13) (I	VILRA 13	6, 122)	³ Inc	licators of hydrophytic vegetation and
☐ Sandy R	edox (S5)	[Piedmont Flo	oodplain Sc	ils (F19)	MLRA 14	8) we	etland hydrology must be present,
Stripped	Matrix (S6)	[Red Parent I	Material (F2	21) (MLR /	127, 147	') un	lless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:			_					
Depth (inc	ches):		_				Hydric Soil	Present? Yes O No
Remarks:	/		=				, , , , , ,	
Remarks.								
No hydric so	oil indicators obser	ved.						

APPENDIX C PROFESSIONAL QUALIFICATIONS

Crystal Roemer, PWS – Crystal serves as an Environmental Scientist in the Airside office (Moon Township, PA) of Michael Baker International and offers over 10 years of natural resource and environmental site investigation experience. Crystal's experience includes wetland delineations, stream and habitat assessments, botanical surveys, invasive species surveys, mitigation design and monitoring, habitat suitability studies for rare, threatened, and endangered (RTE) species, RTE coordination and clearance, macroinvertebrate studies, electrofishing surveys, mine surface subsidence investigations, NEPA documentation and resource permitting, FEMA floodway revision studies, and environmental inspection.

Crystal has conducted work nationwide and across multiple industries, including oil and gas, wind and nuclear energy, transportation, planning, mining, land development, municipal, and water resources. Crystal has a bachelor's degree in Environmental Science and Biology from Edinboro University of Pennsylvania. Crystal completed the USACE 36-Hour Army Corps of Engineers Wetland Delineation Training Program, has received PEC Safeland training, is 40-hour HAZWOPER certified, and is registered as a Professional Wetland Scientist (PWS) through The Society of Wetland Scientists.

Trevor Surgener – Trevor serves as an Environmental Scientist in the Airside office (Moon Township, PA) of Michael Baker International. Trevor has a wide variety of experience contributing to a diverse skill set, including ecological sampling, limnology, freshwater science, stream ecology, wetland studies, macroinvertebrate studies, microscopy, electrofishing surveys, solar and renewable energies, construction, atmospheric and aquatic instrumentation, and remote monitoring. Trevor has over five years of experience in freshwater science and stream ecology and over eight years of cumulative experience collecting ecological data for various employers.

Trevor has conducted work ranging throughout Northwest Pennsylvania, the Great Lakes, and the Arctic. Trevor has a bachelor's degree in Sustainability and Environmental Sciences with a focus in freshwater biology from Mercyhurst University in Erie, Pennsylvania. Trevor holds a 40-hour HAZWOPER certificate, and a certificate for Wilderness First Aid.