

[SPAB010_001S UP] facing south upstream



[SPAB010_002N DOWN] facing north downstream



[SPAB010_003W ACROSS] facing west across bank

Waterbody Data Sheet

TTUCCIO	dy Data Gi	1001										
Survey D	escription											
Project Nar	me:		Waterb	ody Name:				Waterbody ID	:		Date:	
AEP Alle	en Station		UNT 1	to Blue Creek				SPAB009			7/16/	[/] 15
State:	County:		Company: Crew Men			mber Initials:	mber Initials: Photo ID(s):					
ОН	Paulding		SCI Engineering ME/JM			1n, 2s, 3w						
Tract Number(s):			Milepost Entry:		Milepost E	xit:	Associated W	etla	nd ID(s):			
05-26-00	3-00			-		-		N/A				
Survey Typ (check one)		Centerline		Re-Route		Access R	oad	Other:				
Physical	Attributes											
Stream Cla		Ephemeral		Intermittent		Perennial		Connectir	ng sv	/ale ^a		
Waterbody (check one)	Type: Lake	Pond:		F	River	√ s	tream	Drainage Ditch		Other:		
OHWM		OHWM Indi		Clear	. 1:		المساد المسا		اد	Canada		□ \\/atan
Width:	5 ft.	(cneck all that a)	οριγ)	Clear on ba		· 📙 S	helving	Wrester vegetat		Scouri	ng	Water staining
Height:	1_ft.	☐ missin	natted, o g vegeta	tion line		d d	itter and ebris	Abrupt	nity (change 🗀	Soil cl chang	haracteristic je
	aterbody - Top k at Centerline			dth of Waterbody iter Edge at Cente			to	Depth of Wa (Approx.)	ter a			
	15	i.			5	_ ft.				0.5 _{_ft}	:.	
Sinuosity: (check one)			er veloci	ty:		Bank he	ight			Bank slope		
(check one)	✓ Straight	(друг	OX.)	0.04		R	ight:	5 _{ft.}		Righ	nt:	70 degrees
	Meande	ring	-	0.01 fps			Left:	 5 <u>"</u>		Le	ft:	70
								ft.				degrees
	ve Attributes	S										
(check one)	earance: No w	vater ✓ Cle	ar		neen n sur	. —	Surface scum	Algal mats		other:		
Substrate:	Bedr	ock Gra	avel	Sand	,	Silt/clay		Organic	c	ther:		
% of Subst	rate:	%	%	%		100	%	%				%
Width of Ri	parian Zone:	Vegetative	Layers:									
_	10 ft.	(check all that Avg. DBH (approx.)		Trees	: —	in.	L	Shrubs:		in.	L	Herbs
	Bank Vegetatio											
Persica Persica	aria pennsylv	/anica, Scho	enople	ctus acutus, Ju	unc	us effuse	s, Care	x vulpinoidea	l			
(list)	bitats (ex: subme		_	tion, overhanging banks,	/roots	, leaf packs, lar	ge submerge	ed wood, riffles, deep	pools):		
	ganisms Obse		,									
(list) None	-											
	nd/or T&E Spec	ies Observed:										
N/A												
Tributary is	s: [Natural		Artificial, man-m	ade	✓ Mai	nipulated					
Disturbance (check all that a		Livestock		Manure in waterbody		Waste di	scharge	Oth	ner:			
Stream Qua	ality ^b :	High		Moderate	<u>,</u>	Low						

- Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.
- ^b **High Quality:** Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

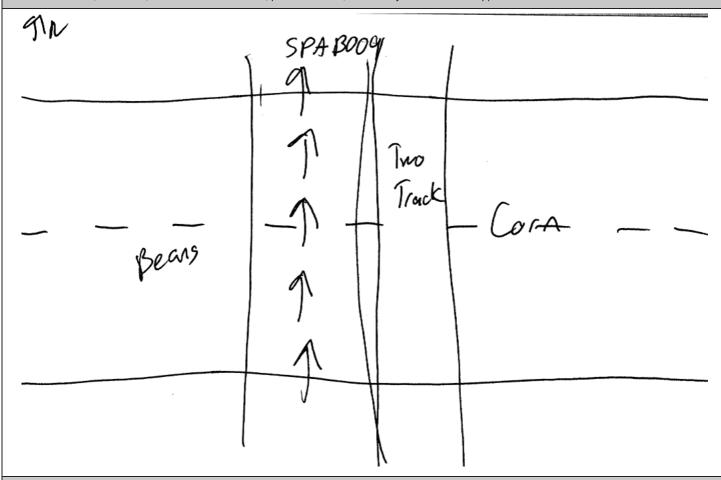
Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Waterbody ID:
SPAB009

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, and survey area/corridor if applicable.



Notes

Ephemeral stream that flows south to north across ROW. Presence of water due to recent rain events.



Qualitative Habitat Evaluation Index and Use Assessment Field Sheet



Stream & Location: SPAB009 UNT to Blue Creek	<i>RM:</i> N/A _ <i>Date:</i> 7 / 16 / 15
Scorers Full Name & Affiliation:	
River Code: N/ASTORET #: N/A Lat./Long.: 41 .01815	5_ /8 4 <u>60182</u> Office verified location ☑
BEST TYPES POOL RIFFLE OTHER TYPES POOL RIFFLE ORIGIN	ONE (Or 2 & average) QUALITY HEAVY [-2] MODERATE [-1] NORMAL [0] FREE [1] EXTENSIVE [-2] MAXIMUM NONE [1]
2] INSTREAM COVER Indicate presence 0 to 3: 0-Absent; 1-Very small amounts or if more common quality; 2-Moderate amounts, but not of highest quality or in small amounts or quality; 3-Highest quality in moderate or greater amounts (e.g., very large boulders in deep or fast water, diameter log that is stable, well developed rootwad in deep / fast water, or deep, well-defined, functional process of the common process	n of marginal of highest large check ONE (<i>Or 2 & average</i>) pools. RS [1] MODERATE 25-75% [7] TES [1] SPARSE 5-<25% [3]
Comments	Cover Maximum 20
3] CHANNEL MORPHOLOGY Check ONE in each category (Or 2 & average) SINUOSITY DEVELOPMENT CHANNELIZATION STABILITY HIGH [4] EXCELLENT [7] NONE [6] HIGH [3] MODERATE [3] GOOD [5] RECOVERED [4] MODERATE [2] LOW [2] FAIR [3] RECOVERING [3] LOW [1] NONE [1] POOR [1] RECENT OR NO RECOVERY [1] Comments	Channel Maximum 20
4] BANK EROSION AND RIPARIAN ZONE Check ONE in each category for EACH BANK (Or River right looking downstream RIPARIAN WIDTH ROOD PLAIN QUALITY FLOOD PLAIN QUALITY FLOOD PLAIN QUALITY RIPARIAN WIDTH ROOD PLAIN QUALITY FLOOD PLAIN QUALITY RIPARIAN WIDTH ROOD PLAIN QUALITY RIPARIAN WIDTH ROOD PLAIN QUALITY ROOD PLAIN	TY CONSERVATION TILLAGE [1] URBAN OR INDUSTRIAL [0]
5] POOL / GLIDE AND RIFFLE / RUN QUALITY MAXIMUM DEPTH Check ONE (ONLY!) Check ONE (Or 2 & average) Check ALL that apply TORRENTIAL [-1] TORRENTIAL [-1] TORRENTIAL [-1] VERY FAST [1] INTERSTIT O.2-<0.4m [1] O.2-<0.4m [1] Comments Comments	Primary Contact Secondary Contact (circle one and comment on back) Pool
□ BEST AREAS > 10cm [2] □ MAXIMUM > 50cm [2] □ STABLE (e.g., Cobble, Boulder) [2] □ BEST AREAS 5-10cm [1] □ MOD. STABLE (e.g., Large Gravel) [1] □ BEST AREAS < 5cm □ UNSTABLE (e.g., Fine Gravel, Sand) [0] Comments	
DRAINAGE AREA MODERATE [6-10]	%GLIDE: Gradient %RIFFLE: Maximum 10

A] SAMPLE Check A	ED REACH ALL that apply	-	Is reach typical of steam?, Recreation s south to north across ROW.		r/Sampling observations, Concerns, Acc	ess directions, etc.
METHOD BOAT WADE L. LINE OTHER DISTANCE	STAGE 1st -sample pass- 2nd HIGH UP NORMAL LOW DRY					
☐ 0.12 Km	CLARITY 1stsample pass 2nc ✓ < 20 cm □ 20-<40 cm □ 40-70 cm □ > 70 cm/ CTB □ SECCHI DEPTH	☐ INVASIVE MACROPHYTES ☐ EXCESS TURBIDITY ☐ DISCOLORATION ☐ FOAM / SCUM	DJ MAINTENANCE PUBLIC / PRIVATE (SOTH) NA ACTIVE / HISTORIC / BOTH / NA YOUNG-SUCCESSION-OLD SPRAY / SNAG / REMOVED MODIFIED / DIPPED OUT / NA LEVEED / ONE SIDED	Circle some & COMMENT	EJ ISSUES WWTP / CSO / NPDES / INDUSTRY HARDENED / URBAN / DIRT&GRIME CONTAMINATED / LANDFILL BMPs-CONSTRUCTION-SEDIMENT LOGGING / IRRIGATION / COOLING BANK / EROSION / SURFACE	F] MEASUREMENTS \overline{\pi} width \overline{\pi} depth max. depth \overline{\pi} bankfull width bankfull \overline{\pi} depth
CANOP ✓ > 85%- OPI ☐ 55%-<85% ☐ 30%-<55%	EN g 2nd cm	☐ NUISANCE ODOR	RELOCATED / CUTOFFS MOVING-BEDLOAD-STABLE ARMOURED / SLUMPS ISLANDS / SCOURED		FALSE BANK / MANURE / LAGOON WASH H ₂ 0 / TILE / H ₂ 0 TABLE ACID / MINE / QUARRY / FLOW NATURAL / WETLAND / STAGNANT	W/D ratio bankfull max. depth floodprone x ² width entrench. ratio
☐ 10%-<30% ☐ <10%- CLO		EATION AREA DEPTH POOL: □>100ft2□>3ft	IMPOUNDED / DESICCATED FLOOD CONTROL DRAINAGE		PARK / GOLF / LAWN / HOME ATMOSPHERE / DATA PAUCITY	Legacy Tree:

Stream Drawing:

See Waterbody Dataform



[SPAB009_001S UP] facing south upstream



[SPAB009_002N DOWN] facing north downstream



[SPAB009_003W ACROSS] facing west across bank

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: AEP - Allen Sta	tion		С	itv/County: Pau	lding		Sampling Date: 7	/14/15
Applicant/Owner: AEP				,		State: IN	Sampling Point:	NOPAA003
Investigator(s): SCI Enginee	ring, Inc.		s				<u> </u>	
Landform (hillslope, terrace, etc							Slope	(%): 1
Subregion (LRR or MLRA): LF	??. ?R L, MLR <i>!</i>	4 99 Lat	. 41.017571	aronor (corroavo,	Long84.7	85628	Datum:	NAD83
Soil Map Unit Name: Hoytville	silty clay	Lat.			Long	NIMI classific	ation: N/A	
Are climatic / hydrologic conditi		ito typical fo	or this time of year					
Are Vegetation \underline{Y} , Soil \underline{Y}								No
Are Vegetation \underline{Y} , Soil \underline{N}								NO
						plain any answei		
SUMMARY OF FINDING	iS – Attac	ch site m	nap showing s	sampling poi	nt location	s, transects	, important fea	tures, etc.
Hydrophytic Vegetation Prese	ent?	Yes	No _X	Is the Sam	pled Area		V	
Hydric Soil Present?	`	Yes	No <u>X</u>		etland?	Yes	No X	
Wetland Hydrology Present?					onal Wetland S	Site ID:		
Remarks: (Explain alternative	procedures	here or in	a separate report.)				
High rainfall totals th	ie past tv	vo mon	ths including	g greater th	an two in	ches in the	past 24 hour	S.
Sample point is in a	bean fie	ld. Bea	ans were pla	nted throug	jhout, but	are sparse	ly growing he	ere.
Some scattered clur	nps of sr	mall Ech	hinochloa sp	p. Much o	f the field	has standi	ng water, but	beans
are fairly uniform els	ewhere.	Veget	ation and so	ils conside	red distur	bed due to	active farmin	ıg.
-								
HYDROLOGY								
Wetland Hydrology Indicato	rs:				<u>S</u>	Secondary Indica	tors (minimum of tv	vo required)
Primary Indicators (minimum	of one is requ	uired; chec	k all that apply)			Surface Soil	Cracks (B6)	
✓ Surface Water (A1)			Water-Stained Le	eaves (B9)	_	Drainage Pat		
✓ High Water Table (A2)			Aquatic Fauna (B	313)		Moss Trim Li		
✓ Saturation (A3)			Marl Deposits (B		_	-	Nater Table (C2)	
Water Marks (B1)			Hydrogen Sulfide			Crayfish Burr		
Sediment Deposits (B2)			Oxidized Rhizosp	_	Roots (C3)		sible on Aerial Imaç	
Drift Deposits (B3)			Presence of Red	` ,	- (00)		ressed Plants (D1)	
Algal Mat or Crust (B4)			Recent Iron Redu		oils (C6)	Geomorphic		
Iron Deposits (B5)			Thin Muck Surface		_	Shallow Aqui		
Inundation Visible on Aer			Other (Explain in	Remarks)			phic Relief (D4)	
Sparsely Vegetated Cond Field Observations:	ave Surrace	(B8)			_	FAC-Neutral	Test (D5)	
Surface Water Present?	Yes X	No	Depth (inches):	1				
Water Table Present?			Depth (inches):					
Saturation Present?			Depth (inches):		Wetland Hy	drology Presen	t? Yes X	No
(includes capillary fringe)								
Describe Recorded Data (stre	;am gauge, n	nonitoring v	well, aerial photos,	, previous inspec	tions), if availa	able:		
Remarks:								

VEGETATION – Use scientific names of plants.

EGETATION – Use scientific names of plan	ts.			Sampling Point: NOPAA003
Tree Stratum (Plot size:)	Absolute % Cover		t Indicator Status	Dominance Test worksheet:
				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2. 3.				Total Number of Dominant Species Across All Strata: 2 (B)
l				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50.00% (A/B)
S				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Co	over	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)				FACW species x 2 =
1				FAC species $\frac{5}{}$ $\times 3 = \frac{15}{}$
2.				FACU species x 4 =
3				01 L 3pccic3
ı				Column Totals: 10 (A) 40 (B)
·· 5				Prevalence Index = B/A = 4.0
				Hydrophytic Vegetation Indicators:
S				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
51		= Total Co	over	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5') 1 Glycine max	5	Yes	UPL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Echinochloa spp.		Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				
5				Definitions of Vegetation Strata:
7.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
3				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
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
	10	= Total Co		height.
Mondy Vine Street ym (Dlet eizer	·	= Total Co	vei	
Noody Vine Stratum (Plot size:)				
l				
2.				
3				Hydrophytic
4				Vegetation Present? Yes No X
		= Total Co	over	
Remarks: (Include photo numbers here or on a separa	te sheet.)			
001N, 002E, 003W				

Soll Sampling Point: NOPAA003

(inches)	Matrix	01		lox Feature		1 2	Tantona	vturo Domarko	
0-10	Color (moist) 10YR 3/3	<u>%</u> 100	Color (moist)	%	Type	Loc ²	Texture	Remarks	
							<u> </u>		
10-12	10YR 3/3	95	10YR 5/6	5	<u>C</u>	<u>M</u>	<u>c</u>		
12-22	10YR 3/3	80	10YR 5/8	20	С	M	С		
					_				
					_				
					_				
	-								
					_				
			-						
					_				
Type: C C	oncontration D D	nlotion D*	=Reduced Matrix, N	19_1/100/	d Socd (2l 200tion: 5	PL=Pore Lining, M=Ma	otriv
Hydric Soil		epietion, Kiv	=Reduced Matrix, N	/IS=IVIASKE	u Sanu C	rains.		r Problematic Hydric	
Histosol			Polyvalue Bel	ow Surfac	e (S8) (L	RR R,		ck (A10) (LRR K, L, M	
	pipedon (A2)		MLRA 149I		- ()(,		airie Redox (A16) (LR	,
	istic (A3)		Thin Dark Sur					cky Peat or Peat (S3)	(LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky			K, L)		face (S7) (LRR K, L)	(LDD K L)
	d Layers (A5) d Below Dark Surfa	ace (A11)	Loamy Gleyed Depleted Matr		2)			Below Surface (S8) (CS) (CS) (CS)	
	ark Surface (A12)	(, (, (, (, (, (, (, (, (, (, (, (, (, (Redox Dark S)			ganese Masses (F12)	
	Mucky Mineral (S1)		Depleted Dark				Piedmont	Floodplain Soils (F19	9) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depres	ssions (F8))			odic (TA6) (MLRA 14	4A, 145, 149B)
	Redox (S5)							nt Material (F21) llow Dark Surface (TF	(12)
Sandy R								rplain in Remarks)	12)
Stripped	d Matrix (S6)	MLRA 149	(B)				(,	
Stripped		MLRA 149	B)						
Stripped Dark Su Indicators o	d Matrix (S6) Inface (S7) (LRR R, Inface the following of hydrophytic veget	tation and w	etland hydrology mu	ust be pres	sent, unle	ess disturbed	or problematic.		
Stripped Dark Su Indicators o	d Matrix (S6) Irface (S7) (LRR R,	tation and w		ust be pres	sent, unle	ess disturbed	or problematic.		
Stripped Dark Su Indicators o	d Matrix (S6) Inface (S7) (LRR R, Inface the following of hydrophytic veget	tation and w		ust be pres	sent, unle	ess disturbed			Υ
Stripped Dark Su Indicators of Restrictive I	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	X
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	X
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	X
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	No X
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	X
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	No <u>X</u>
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	No X
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	X
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	No X
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	No X
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	X
Stripped Dark Su ³ Indicators o Restrictive I Type:	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	No <u>X</u>
Stripped Dark Su ³ Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	No <u>X</u>
Stripped Dark Su ³ Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	No X
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	No X
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	No X
Stripped Dark Su Indicators o Restrictive I Type: Depth (in	d Matrix (S6) Inface (S7) (LRR R, If hydrophytic veget Layer (if observed	tation and w		ust be pres	sent, unle	ess disturbed		esent? Yes	No X



[NOPAA003_001N] facing north



[NOPAA003_002E] facing east



[NOPAA003_003W] facing west

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: AEP - Allen Sta	tion	City/Co	_{untv:} Paulo	ding	,	Sampling Date: 7	7/14/15
Applicant/Owner: AEP					State: IN	Sampling Point	NOPAA002
Investigator(s): SCI Engineer	ring, Inc.	Section					
Landform (hillslope, terrace, etc	:): Flats	Local relie	f (concave.	convex none	. None	Slope	e (%): 1
Subregion (LRR or MLRA). LR	RR L, MLRA 99	. 41.017572	. (00.100.10,	Long84.7	76269	Datum	. NAD83
Subregion (LRR or MLRA): LR Soil Map Unit Name: Hoytville	silty clay loam, Nar	ppanee silty clay loam	า	Long.	NWI classifica	tion: N/A	
Are climatic / hydrologic conditi	one on the site typical f	or this time of year? Ve	e N	In X (If	no evolain in Rei	marke)	
							No
Are Vegetation $\frac{Y}{N}$, Soil $\frac{Y}{N}$, or HydrologyN	significantly disturbe	eu? F				NO
					olain any answers		-4
SUMMARY OF FINDING					s, transects,	important rea	atures, etc.
Hydrophytic Vegetation Prese	nt? Yes		Is the Samp	oled Area	Yes	No X	
Hydric Soil Present?	Yes						
Wetland Hydrology Present? Remarks: (Explain alternative	Yes ^	No	If yes, optior	nal Wetland S	ite ID:		
				.! - 44	Th	- :- f	
Sample point is in a		•	•	•			
corn, but it is shorter		•					_
and the yearly total i	•	than normal. V	egetatio	n and so	ii considered	a disturbed	aue to
active farming activity	ıy						
HYDROLOGY							
Wetland Hydrology Indicato	rs:			<u>S</u>	econdary Indicato	ors (minimum of t	wo required)
Primary Indicators (minimum	of one is required; chec	ck all that apply)			_ Surface Soil C	racks (B6)	
Surface Water (A1)		Water-Stained Leaves	(B9)	_	_ Drainage Patte	erns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)			Moss Trim Lin	es (B16)	
✓ Saturation (A3)		Marl Deposits (B15)		_	-	ater Table (C2)	
Water Marks (B1)		Hydrogen Sulfide Odor	. ,	(0.5)	Crayfish Burro		(0.5)
Sediment Deposits (B2)		Oxidized Rhizospheres	_		Saturation Visi Stunted or Stre	ble on Aerial Ima	
Drift Deposits (B3) Algal Mat or Crust (B4)		Presence of Reduced I Recent Iron Reduction		· ·	Sturtled of StreetGeomorphic P	,	,
Iron Deposits (B5)		Thin Muck Surface (C7			_ Shallow Aquita		
Inundation Visible on Aer	ial Imagery (B7)	Other (Explain in Rema		_	Microtopograp		
Sparsely Vegetated Cond	cave Surface (B8)			_	FAC-Neutral T		
Field Observations:							
Surface Water Present?		_ Depth (inches): N/A					
Water Table Present?		_ Depth (inches): >20				V	
Saturation Present? (includes capillary fringe)	Yes X No	_ Depth (inches): 4		Wetland Hy	drology Present	? Yes <u>X</u>	No
Describe Recorded Data (stre	am gauge, monitoring	well, aerial photos, previ	ous inspecti	ions), if availa	ıble:		
Remarks:							
Heavy rainfall in the	poet 24 hours	and abnormally k	aigh am	ounto for	the year		
Heavy railliali iii tile	past 24 Hours a	and abnormany i	ligit attic	Julilo Iul	ille year.		

VEGETATION – Use scientific names of plants.

	Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species
			Number of Dominant Species
			That Are OBL, FACW, or FAC: 0 (A)
			Total Number of Dominant Species Across All Strata: 1 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00% (A/B)
			That Are OBE, FACW, OFFAC.
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
	= Total Cov	/er	OBL species x 1 =
			FACW species x 2 =
			FAC species x 3 =
			FACU species x 4 =
			UPL species $\frac{30}{30}$ $x = \frac{150}{150}$
			Column Totals: 30 (A) 150 (B)
			Prevalence Index = B/A = 5.0
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
	= Total Co\	/er	3 - Prevalence Index is ≤3.0¹
30	Yes	UPL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
			at breast height (DBH), regardless of height.
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than 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.
			Woody vines – All woody vines greater than 3.28 ft in
20		/er	height.
	- 10101 001		
			Hydrophytic Vegetation
			Present? Yes No X
	= Total Cov	/er	
ite sheet.)			
	30	= Total Cov	= Total Cover = Total Cover 30

SOIL Sampling Point: NOPAA002

Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type ¹	Loc ²	Texture Remarks
0-10	10YR 3/3	100	Color (moist)		туре	LOC	SiCl
10-15	10YR 3/3	100					<u>C</u>
15-20	10YR 5/2	85	10YR 5/6	15	С	M	<u>C</u>
				·	-		
	-				-		
	· -	_					
					'		
1Type: C-C	Concentration D_Do	nletion DN	l=Reduced Matrix, MS	S-Mackad	Sand C	aine	² Location: PL=Pore Lining, M=Matrix.
	Indicators:	pietion, Kiv	i=Reduced Matrix, Mc	3=IVIASKEU	i Sanu Gi	ali is.	Indicators for Problematic Hydric Soils ³ :
Histoso			Polyvalue Belov	w Surface	(S8) (LR	R R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	Epipedon (A2)		MLRA 149B)		`	•	Coast Prairie Redox (A16) (LRR K, L, R)
	listic (A3)		Thin Dark Surfa				
	en Sulfide (A4)		Loamy Mucky N			K, L)	Dark Surface (S7) (LRR K, L)
	ed Layers (A5) ed Below Dark Surfa	ce (A11)	Loamy Gleyed I Depleted Matrix)		Polyvalue Below Surface (S8) (LRR K, L)Thin Dark Surface (S9) (LRR K, L)
	Dark Surface (A12)	(, , , ,	Redox Dark Su				Iron-Manganese Masses (F12) (LRR K, L
	Mucky Mineral (S1)		Depleted Dark	Surface (F	7)		Piedmont Floodplain Soils (F19) (MLRA 1
	Gleyed Matrix (S4)		Redox Depress	ions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 14
	Redox (S5)						Red Parent Material (F21)
	d Matrix (S6) urface (S7) (LRR R,	MI DA 1/0	R)				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Daik S	unace (57) (ERR R,	WILIXA 143	.				Other (Explain in Remarks)
³ Indicators	of hydrophytic veget	ation and w	etland hydrology mus	t be prese	ent, unles	s disturbed	or problematic.
Restrictive	Layer (if observed):					
Type:							V
Depth (in	nches):						Hydric Soil Present? Yes No X
Remarks:							



[NOPAA002_001N] facing north



[NOPAA002_002E] facing east



[NOPAA002_003W] facing west

Waterbody Data Sheet

TTUCCIO	dy Data Oi	1001										
Survey D	escription											
Project Nan	me:		Waterbody Name:					Waterbody ID:			Date:	
AEP Alle	n Station		Unnai	med Ditch				NOPAA001	NOPAA001 7/14/			
State:	County:		Company: Crew Men			mber Initials:	mber Initials: Photo ID(s):					
ОН	Paulding		SCI Engineering JS/TC			001 N 002 E 003 W						
Tract Numb	per(s):			Milepost Entry: Milepost Exit:			Associated Wetland ID(s):					
03-29-013-00				n/a n/a				None				
Survey Typ (check one)	Survey Type: (check one) Centerline			Re-Route		Access Road		Other:				
Physical	Attributes											
Stream Clas (check one)	Stream Classification: check one) Ephemeral		Intermittent		Perennial		Connectin	ng sw	/ale ^a			
Waterbody (check one)	Type: Lake	Pond:		□R	iver	s	tream	✓ Drainage Ditch		Other:		
онwм		OHWM Indi		— a:								
Width:	n/a ft.	(check all that a	оріу)	Clear on ba		∐s	helving	Wrested vegetat		Scouri		Water staining
Height:	ft.	☐ missin	natted, o g vegeta	tion Line		L d	itter and ebris	Abrupt	nity o	change —	Soil charad	cteristic
	aterbody - Top k at Centerline			dth of Waterbody iter Edge at Cente			to	Depth of Wat (Approx.)	ter a			
	n/a	·.			n/a	ft.				0 _{ft}		
Sinuosity: (check one)		Wat (Appr	er veloci			Bank he	_	4.5		Bank slope Righ	4.	
	✓ Straight			n/a fps			_	1.5 _{ft.}		· ·		degrees
	Meande	ring	-	tps			Left:	1.5 _{ft.}		Let		degrees
Qualitativ	ve Attributes											
Water Appe									_			
(check one)	√ No w	/ater Cle	ar		een surf		Surface scum	Algal mats		other: 		
Substrate: (check all that a	Bedr	ock Gra	avel	Sand		Silt/clay		Organic	7 0	ther: fully v	egetated	
% of Substr	rate:	%	%	%		9	%	%			_100 _%	
Width of Ri	iparian Zone:	Vegetative (check all that					Г	_				l a ula a
_	ft.	Avg. DBH		Trees:		in.	L	Shrubs:		in.	▼ F	lerbs
	Bank Vegetatio	1 1 1 1										
Setaria	a pumila											
Aquatic Hal	bitats (ex: subme	rged or emerged aq	uatic vegeta	tion, overhanging banks/	roots,	leaf packs, lar	ge submerge	ed wood, riffles, deep	pools):		
None												
Aquatic Org	ganisms Obse	ved:										
None												
Invasive an (list) None	nd/or T&E Spec	ies Observed:										
Tributary is	s: [Natural		Artificial, man-ma	ade	√ Mar	nipulated					
Disturbance (check all that a)		Livestock		Manure in		Waste di		Oth	ner:			
Stream Qua	ality⁵:	access		waterbody Moderate		pipes Low	N/A		-			

- Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.
- ^b **High Quality:** Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

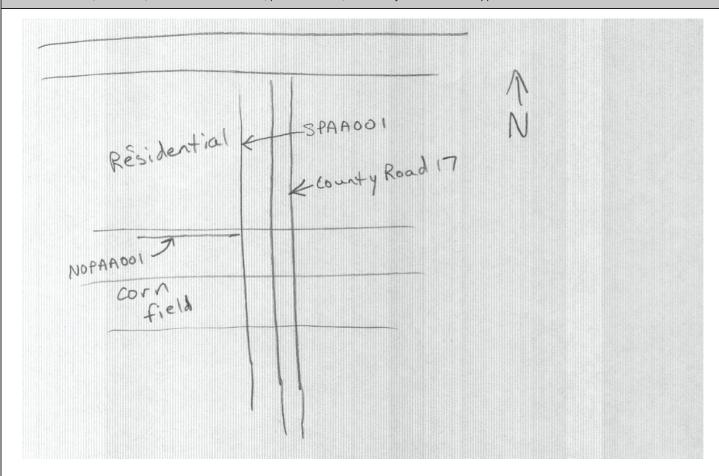
Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Waterbody ID:
NOPAA001

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, and survey area/corridor if applicable.



Notes

An aerial signature which looks like a linear feature is a shallow ditch (~1.5') running along a property boundary east to west and ending SPAA001. No water and fully vegetated.



[NOPAA001_001N] facing north



[NOPAA001_002E] facing east



[NOPAA001_003W] facing west

Waterbody Data Sheet

TTULCIDO	dy Data On	001										
Survey D	escription											
Project Nan	me:		Waterbo	ody Name:				Waterbody ID:	:		Date:	
AEP Alle	n Station		Unnai	med Ditch				NOPAA004	4		7/14/15	
State:	County:			Company:			Crew Me	mber Initials:	Photo	DID(s):		
ОН	Paulding			SCI Engir	ne	ering	JS/TC		001	up 002 d	own 003 across	S
Tract Numb	per(s):			Milepost Entry:		Milepost E	xit:	Associated W	etland	I ID(s):		
Tract for	CR 33(no nur	mber provid	led)	n/a		n/a		None				
Survey Typ (check one)		Centerline		Re-Route		Access Ro	oad	Other:				
Physical	Attributes							_				-
Stream Clas (check one)	√	Ephemeral		Intermittent		Perennial		Connectin	ng swa	le ^a		
Waterbody (check one)	Type: Lake	Pond:		F	River	s	tream	✓ Drainage Ditch		Other:		
OHWM		OHWM Indi		Class	lin a		ام ماد شما	□ \\//reste	۵.	Consumin		_
Width:	n/a ft.	(спеск ан тата)	оріу)	Clear on ba		∟s	helving	Wrested vegetat		Scouring	ng Water staining	
Height:	n/a ft.	☐ missin	natted, o g vegeta	tion		L d	itter and ebris	Abrupt	nity ch	Ü	Soil characteristic change	
	aterbody - Top on the state of	of Bank to		dth of Waterbody iter Edge at Cente			to	Depth of Wat (Approx.)	ter at			
	ft.				3	ft.				5 ft.		
Sinuosity: (check one)			er veloci	ty:		Bank he	ight		В	ank slope		
(oncon onc)	✓ Straight	(, dob)	<i>o</i> x.,	0		R	ight:	6 _{ft.}		Right	t: 60 degrees	3
	Meanderi	ng	-	fps			Left:	6 _{ft.}		Lef		
Qualitativ	ve Attributes											
Water Appe									7			
(check one)	No wa	ater Cle	ar 🔽		neen n sur	. —	Surface scum	Algal mats	Oth	ner: 		-
Substrate: (check all that a	Bedro	ck Gra	avel	Sand	5	Silt/clay		Organic	Oth	ner:		_
% of Substi	rate:	_ %	%	%		_100 9	%	%			%	
Width of Ri	iparian Zone:	Vegetative (check all that					Г	Shrubs:			Llorbo	
_	ft.	Avg. DBH		Trees	_	in.	L	Shirubs.	in	1.	✓ Herbs	
	Bank Vegetation											
Sched	onorus prater	nsis										
(list)	bitats (ex: submerg	ed or emerged aqu	uatic vegeta	tion, overhanging banks	/roots	, leaf packs, lar	ge submerge	ed wood, riffles, deep	pools):			
None												
(list)	ganisms Observ	ved:										
None												
(list)	nd/or T&E Specie m arvense	es Observed:										
Tributary is	s:	Natural	Г	Artificial, man-m	ade	✓ Mar	nipulated					
Disturbance		_										
(check all that a		Livestock access	Ĺ	Manure in waterbody	L	Waste di pipes	scharge	Oth	ner: —			
Stream Qua (check one)	ality":	High		Moderate		Low	N/A					

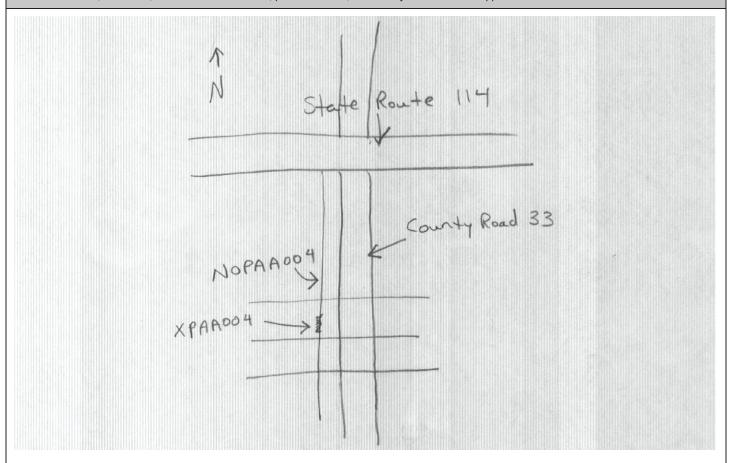
- Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.
- ^b **High Quality:** Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, and survey area/corridor if applicable.



Notes

An unnamed road ditch along County Road 33. It is a vegetation choked ditch. It currently has water in it from recent rains, but there is no discernible flow. Based on the existing vegetation it appears to be periodically maintained.



[NOPAA004_001S] facing south upstream



[NOPAA004_002N] facing north downstream



[NOPAA004_003W] facing west across bank

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Allen Station		City/C	ounty: Paul	ding	Sa	mpling Date: 7	/15/15
Applicant/Owner: AEP					State: OH		
Investigator(s): SCI		Section	on. Township	Range: S3	30 T1E R14E	oapg . o	
Landform (hillslope, terrace, etc.)	_{):} <u>Drainage</u>	Local reli	ef (concave,	convex, non	e): concave	Slope	e (%): <u>2</u>
Subregion (LRR or MLRA): LRR	≀ L Lat	41.017985		Long: -84.	707945	Datum:	NAD83
Subregion (LRR or MLRA): LRR Soil Map Unit Name: Hoytville	Silty Clay			- J <u></u>	NWI classification	n: Na	
Are climatic / hydrologic condition	ns on the site typical f	or this time of year? Y	es N	10 <u>X</u> (If no, explain in Rema	arks.)	
Are Vegetation \underline{Y} , Soil \underline{Y}	, or Hydrology N	significantly disturl	bed?	Are "Normal	Circumstances" pres	ent? Yes X	No
Are Vegetation N, Soil N	, or Hydrology N	naturally problema	atic? (If needed, e	xplain any answers ir	n Remarks.)	
SUMMARY OF FINDINGS	S – Attach site m	nap showing sam	pling poi	nt locatio	ns, transects, in	nportant fea	tures, etc.
Hydrophytic Vegetation Presen Hydric Soil Present?	Yes	No X No x No x		etland?	Yes		
Wetland Hydrology Present? Remarks: (Explain alternative)			If yes, option	nal Wetland	Site ID:		
farming. Rainfall total HYDROLOGY		arior the seaso	n.				
Wetland Hydrology Indicators	<u> </u>				Secondary Indicators	(minimum of ty	vo required)
Primary Indicators (minimum of		vk all that apply)			Surface Soil Cra		ro roquirou _j
Surface Water (A1)	One is required, chec	Water-Stained Leave	c (R0)		✓ Drainage Patterr		
High Water Table (A2)		Aquatic Fauna (B13)	3 (D3)		Moss Trim Lines		
Saturation (A3)		Marl Deposits (B15)			Dry-Season Wat		
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1)		Crayfish Burrows		
Sediment Deposits (B2)		Oxidized Rhizosphere		Roots (C3)	Saturation Visibl		nery (C9)
Drift Deposits (B3)		Presence of Reduced	_		Stunted or Stres		
Algal Mat or Crust (B4)		Recent Iron Reduction			Geomorphic Pos		
Iron Deposits (B5)		Thin Muck Surface (C			Shallow Aquitard		
Inundation Visible on Aeria		Other (Explain in Ren			Microtopographi		
Sparsely Vegetated Conca			,		FAC-Neutral Tes		
Field Observations:							
Surface Water Present?	Yes No X	Depth (inches): Nor	ne				
		Depth (inches): >22					
		Depth (inches): >22		Wetland H	ydrology Present?	Yes	No <u>X</u>
Describe Recorded Data (strea	m gauge, monitoring	well, aerial photos, pre	vious inspect	ions), if avai	lable:		
Remarks:							
İ							

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: 20)	Absolute		Dominance Test worksheet:
		Species? Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC: 0 (A)
2		·	Total Number of Dominant
3		· 	Species Across All Strata: 0 (B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: U (A/B)
6		- <u> </u>	Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
		= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30		•	FACW species x 2 =
1			FAC species x 3 =
2			FACU species x 4 =
			UPL species 10 x 5 = 50
3			Column Totals: 10 (A) 50 (B)
4			Prevalence Index = B/A = 5
5			
6			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
		= Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5			3 - Prevalence Index is ≤3.0 ¹
1. Glycine max	10	Y UPL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2		<u> </u>	Problematic Hydrophytic Vegetation ¹ (Explain)
3			4
4.			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5			
			Definitions of Vegetation Strata:
6			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7			at breast height (DBH), regardless of height.
8			Sapling/shrub – Woody plants less than 3 in. DBH
9		·	and greater than or equal to 3.28 ft (1 m) tall.
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
	10	= Total Cover	height.
Woody Vine Stratum (Plot size:)			
1			
2			
3.			Hydrophytic
			Vegetation
4	_		Present? Yes No X
Remarks: (Include photo numbers here or on a separate	sheet)	= Total Cover	
remarks. (include prioto numbers here of off a separate	Sileet.)		

Sampling Point: NOPAB001

Sampling Point: NOPAB001

Profile Desc	ription: (Describe	to the dep	th needed to docun	ent the i	ndicator or confirm	m the absence of indicators.)	
Depth	Matrix		Redox	Features	1		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹ Loc ²	Texture Remarks	
0-18"	10YR 4/1	100				SICL	
18-22"	10YR 5/3	100				SICL	
						·	
					<u> </u>		
	-					-	
	-						
						-	
1- 0.0						2 2. 2	
		letion, RM=	Reduced Matrix, MS	=Masked	Sand Grains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil I			Dalamaka Dalam	. 0	(OO) (LDD D	Indicators for Problematic Hydric Soils ³ :	
Histosol	(A1) pipedon (A2)		Polyvalue Belov MLRA 149B)	Surrace	(S8) (LRR R,	 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R))
Black Hi			,	(SQ) (I	RR R, MLRA 149B		B)
	n Sulfide (A4)		Loamy Mucky M			Dark Surface (S7) (LRR K, L)	IX)
	Layers (A5)		Loamy Gleyed N			Polyvalue Below Surface (S8) (LRR K, L)	
	Below Dark Surfac	e (A11)	Depleted Matrix			Thin Dark Surface (S9) (LRR K, L)	
Thick Da	ark Surface (A12)	, ,	Redox Dark Sur			Iron-Manganese Masses (F12) (LRR K, L	, R)
Sandy M	lucky Mineral (S1)		Depleted Dark S	Surface (F	7)	Piedmont Floodplain Soils (F19) (MLRA 1	49B)
Sandy G	Bleyed Matrix (S4)		Redox Depress	ons (F8)		Mesic Spodic (TA6) (MLRA 144A, 145, 14	9B)
Sandy R	edox (S5)					Red Parent Material (F21)	
Stripped	Matrix (S6)					Very Shallow Dark Surface (TF12)	
Dark Sui	rface (S7) (LRR R, N	ILRA 149E	3)			Other (Explain in Remarks)	
3							
			tland hydrology mus	t be prese	nt, unless disturbed	d or problematic.	
	_ayer (if observed):						
Type:							
Depth (inc	ches):		<u></u>			Hydric Soil Present? Yes No X	
Remarks:							

SOIL



[NOPAB001_001N] facing north



[NOPAB001_002S] facing south



[NOPAB001_003W] facing west

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Allen Station	City/County: Paulding		Sampling Date: 7/15/15
Applicant/Owner: AEP			Sampling Point: NOPAB002
	Section, Township, Ran	nge: S30 T1N R1E	
Landform (hillslope, terrace, etc.): Drainage	Local relief (concave, conv	ex, none): concave	Slope (%): 2
Subregion (LRR or MLRA): LRR L	Lat: 41.018038	_{1:} -84.700136	Datum: NAD83
Subregion (LRR or MLRA): LRR L Soil Map Unit Name: Hoytville Silty Clay		NWI classif	ication: Na
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes No ${\color{red} {\sf X}}$	(If no, explain in	Remarks.)
Are Vegetation $\underline{\underline{Y}}$, Soil $\underline{\underline{Y}}$, or Hydrology	N significantly disturbed? Are "I	Normal Circumstances"	present? Yes X No
Are Vegetation \underline{N} , Soil \underline{N} , or Hydrology	N naturally problematic? (If nee	eded, explain any answ	rers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	e map showing sampling point lo	cations, transect	s, important features, etc.
Hydric Soil Present? Yes		d? Yes	
Wetland Hydrology Present? Yes Remarks: (Explain alternative procedures here of		/etland Site ID:	
farming. Rainfall totals above nor HYDROLOGY	marior the coacon.		
Wetland Hydrology Indicators:		Secondary Indic	cators (minimum of two required)
Primary Indicators (minimum of one is required; of	check all that apply)	Surface So	il Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	✓ Drainage P	atterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim	Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Seasor	n Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Bu	· · ·
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots		Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C		
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7) Other (Explain in Remarks)	Shallow Aq	raphic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	· -	al Test (D5)
Field Observations:		170 Neutr	ar rest (BS)
	Depth (inches): None		
	Depth (inches): >20		
Saturation Present? Yes No X	00	land Hydrology Prese	ent? Yes No X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections)	, if available:	
, , , ,			
Remarks:			

VEGETATION – Use scientific names of plants.

/EGETATION – Use scientific names of plants.	•			Sampling Point: NOPAB002
Tree Stratum (Plot size: 20	Absolute	Dominant Species?		Dominance Test worksheet:
1		-	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B)
5				That Are OBE, FACW, OF FAC.
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
20		= Total Cov	/er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30)				FACW species $\frac{70}{20}$ $x = \frac{140}{60}$ FAC species $\frac{20}{x} = \frac{60}{x}$
1				FAC species 20 x 3 = 60 FACU species x 4 =
2				UPL species 30 x 5 = 150
3				Column Totals: 120 (A) 350 (B)
4				
5				Prevalence Index = B/A = 2.9
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
		= Total Cov	/er	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 1. Cyperus esculentus	60	Υ	FACW	 ✓ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
2. Rumex crispus	20	<u>Y</u>	FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
2. Ambrosia artemisiifolia	20	<u>Y</u>	UPL	1 Toblematic Hydrophytic Vegetation (Explain)
2. Persicaria pennsylvanica	10	<u>'</u> N	FACW	¹ Indicators of hydric soil and wetland hydrology must
5. Daucus carota	10	N	UPL	be present, unless disturbed or problematic.
6.				Definitions of Vegetation Strata:
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
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
	120	= Total Cov	/er	height.
Woody Vine Stratum (Plot size:)				
1				
2				
3				Hydrophytic
4				Vegetation Present? Yes X No
		= Total Cov	/er	resent: res No
Remarks: (Include photo numbers here or on a separate	sheet.)			
Remarks: (Include photo numbers here or on a separate	-	= Total Cov	/er	

Sampling Point: NOPAB002

(inches) Color (mois 0-12 10YR 3/1 12-18 10YR 4/1 18-20 10YR 5/2	100	Color (moist) ———————————————————————————————————		Texture Remarks SICL SICL SICL SICL	
12-18 18-20 10YR 4/1 18-20 10YR 5/2	100	Polyvalue Below		SICL SICL	
18-20 10YR 5/2 1Type: C=Concentration, D= Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Statified Layers (A12 Sandy Mucky Mineral (S	100	Polyvalue Below		SICL 2Location: PL=Pore Lining, M=Matrix.	
Type: C=Concentration, D= Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S		Polyvalue Below		² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S	=Depletion, RM	Polyvalue Below			
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S			/ Surface (S8) (LRR R.	Indicators for Problematic Hydric Soils ³ :	
 Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Summer Thick Dark Surface (A12 Sandy Mucky Mineral (S 			Surface (S8) (LRR R.	-	
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S		MLRA 149B)		2 cm Muck (A10) (LRR K, L, MLRA 14	
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Su Thick Dark Surface (A12 Sandy Mucky Mineral (S		Thin Dark Surface	00 (SO) (LDD D MLDA 140	Coast Prairie Redox (A16) (LRR K, L, 5 cm Mucky Peat or Peat (S3) (LRR K,	
Stratified Layers (A5) Depleted Below Dark St Thick Dark Surface (A12 Sandy Mucky Mineral (S			ce (S9) (LRR R, MLRA 149 lineral (F1) (LRR K, L)	Dark Surface (S7) (LRR K, L)	, L, K)
Thick Dark Surface (A12 Sandy Mucky Mineral (S		Loamy Gleyed M		Polyvalue Below Surface (S8) (LRR K,	, L)
Sandy Mucky Mineral (S	Surface (A11)	Depleted Matrix		Thin Dark Surface (S9) (LRR K, L)	•
	,	Redox Dark Surf	` '	Iron-Manganese Masses (F12) (LRR K	
Sandy Gleyed Matrix (Second Second		Depleted Dark S		Piedmont Floodplain Soils (F19) (MLR.	
Condy Doday (CF)	54)	Redox Depression	ons (F8)	Mesic Spodic (TA6) (MLRA 144A, 145	, 149B)
Sandy Redox (S5) Stripped Matrix (S6)				Red Parent Material (F21) _ Very Shallow Dark Surface (TF12)	
Dark Surface (S7) (LRR	R R, MLRA 149	OB)		Other (Explain in Remarks)	
(,	,		,	
³ Indicators of hydrophytic ve		etland hydrology must	t be present, unless disturbe	ed or problematic.	
Restrictive Layer (if observ	rved):				
Type:					v
Depth (inches):				Hydric Soil Present? Yes No	
Remarks:				1	

SOIL



[NOPAB002_001N] facing north



[NOPAB002_002S] facing south



[NOPAB002_003W] facing west

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Allen Station			(City/County: Pau		Sampling Date: 7/15/15				
Applicant/Owner: AEP										
Investigator(s): SCI			Section, Township, Range: S30 T1N R1E							
Landform (hillslope, terrace, et	c.): Drainage	Э	Loc	al relief (concave,	ne): concave	Slope				
Subregion (LRR or MLRA): LF	≀R L	Lat	41.017954		Lona: -84.	694406	Datum:	NAD83		
Subregion (LRR or MLRA): LF Soil Map Unit Name: Hoytville	e Silty Clay					NWI classificat	ion: Na			
Are climatic / hydrologic condit	ions on the sit	e typical f	or this time of yea	ar? Yes	No X (If no, explain in Rer	narks.)			
Are Vegetation Y, Soil Y								No		
Are Vegetation N, Soil N	, or Hydr	ology N	naturally prol	olematic?	(If needed, e	xplain any answers	in Remarks.)			
SUMMARY OF FINDING								itures, etc.		
Hydrophytic Vegetation Prese			NoX	Is the Sam	pled Area		x			
Hydric Soil Present?	Y	'es	No _X			Yes				
Wetland Hydrology Present? Remarks: (Explain alternative)	Y	es X	No	If yes, option	onal Wetland	Site ID:				
above normal for the										
Wetland Hydrology Indicate	ors:					Secondary Indicato	rs (minimum of ty	vo required)		
Primary Indicators (minimum		ired: chec	k all that apply)			Surface Soil C				
✓ Surface Water (A1)	Water-Stained L	.eaves (B9)		✓ Drainage Patte						
High Water Table (A2)	Aquatic Fauna (Moss Trim Line						
Saturation (A3)			Marl Deposits (E	315)		Dry-Season Water Table (C2)				
Water Marks (B1)			Hydrogen Sulfid	e Odor (C1)		Crayfish Burrows (C8)				
Sediment Deposits (B2)			Oxidized Rhizos	pheres on Living	Roots (C3)	✓ Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)			Presence of Red	, ,		Stunted or Stre				
Algal Mat or Crust (B4)				luction in Tilled So	oils (C6)	Geomorphic Po				
Iron Deposits (B5)	dal las anama (f		Thin Muck Surfa			Shallow Aquitard (D3) Microtopographic Relief (D4)				
Inundation Visible on Aer			Other (Explain in	n Remarks)						
Sparsely Vegetated Con-	Lave Surface	(D0)			1	FAC-Neutral T	<u> </u>			
Surface Water Present?	Yes X	No	_ Depth (inches):	1						
Water Table Present?			_ Depth (inches):							
Saturation Present?			_ Depth (inches):		Wetland H	ydrology Present?	Yes X	No		
(includes capillary fringe) Describe Recorded Data (stre	eam gauge, m	onitoring	well, aerial photos	s, previous inspec	tions), if ava	ilable:				
,	0 0 7	· ·	, ,	,	,,					
Remarks:										

VEGETATION – Use scientific names of plants.

EGETATION – Use scientific names of plants	S.			Sampling Point: NOPAB003
Tree Stratum (Plot size: 20)	Absolute	Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant Species Across All Strata: 1 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6 7				Prevalence Index worksheet: Total % Cover of: Multiply by:
		= Total Cov	er	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30)				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
				UPL species <u>60</u> x 5 = <u>300</u>
3 4				Column Totals: 60 (A) 300 (B)
5				Prevalence Index = $B/A = \frac{5}{}$
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
5		= Total Cov	ei	3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5) 1. Glycine max	60	Υ	UPL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2.				Problematic Hydrophytic Vegetation ¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6 7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12	60			Woody vines – All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:)		= Total Cov	er	
1				
2.				
3				Hydrophytic
4				Vegetation
		= Total Cov		Present? Yes No ^
Remarks: (Include photo numbers here or on a separate	sheet.)			

SOIL Sampling Point: NOPAB003

10 10 10 10 10 10 10 10	Depth (inches)	Matrix Color (moist)	%	Color (moist)	<u>k Feature</u> %	s Type ¹	Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration and wetland hydrology must be present, unless disturbed or problematic. Type: C=Concentration and wetland hydrology must be present, unless disturbed or problematic.									Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Polyvalue Below Surface (S8) (LRR R, Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soils*:		-			-				
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Medox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S7) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soils 3: Indicators for Problematic Hydric Soils 4: Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soil Present? Yes No	18-21"	10YR 5/3	90	10YR 5/4	10	<u>C</u>	M	SICL	
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Medox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S7) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soils 3: Indicators for Problematic Hydric Soils 4: Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soil Present? Yes No									
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Medox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S7) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soils 3: Indicators for Problematic Hydric Soils 4: Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soil Present? Yes No				-					
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Medox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S7) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soils 3: Indicators for Problematic Hydric Soils 4: Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soil Present? Yes No									
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Medox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S7) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soils 3: Indicators for Problematic Hydric Soils 4: Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soil Present? Yes No									
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Medox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S7) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soils 3: Indicators for Problematic Hydric Soils 4: Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soil Present? Yes No									
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Medox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S7) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soils 3: Indicators for Problematic Hydric Soils 4: Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soil Present? Yes No						·			
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Medox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S7) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soils 3: Indicators for Problematic Hydric Soils 4: Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soil Present? Yes No									
Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) MLRA 149B) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Medox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S7) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Medicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soils 3: Indicators for Problematic Hydric Soils 4: Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators for Problematic Hydric Soil Present? Yes No			_	- · 					
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B)			pletion, RN	M=Reduced Matrix, MS	S=Masked	d Sand G	ains.		
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (F3) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): Type: Depth (inches): Type: Depth (inches):	Histosol	I (A1)				(S8) (LR	R R,	2 cm M	luck (A10) (LRR K, L, MLRA 149B)
Depleted Below Dark Surface (A11)	Hydroge	en Sulfide (A4)		Loamy Mucky M	lineral (F	1) (LRR I		Dark St	urface (S7) (LRR K, L)
Sandy Mucky Mineral (S1)			ce (A11)			2)			
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):					, ,				
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No _X	Sandy 0	Gleyed Matrix (S4)				.,		Mesic S	Spodic (TA6) (MLRA 144A, 145, 149B)
Restrictive Layer (if observed): Type:	Stripped	d Matrix (S6)	MLRA 149	9B)				Very Sh	hallow Dark Surface (TF12)
Type:	Indicators o	of hydrophytic vegeta	ation and v	vetland hydrology mus	t be pres	ent, unles	s disturbed	d or problematic.	
Depth (inches): No X	Restrictive	Layer (if observed)):						
Depth (inches): Hydric Soil Present? Yes No Remarks:	Type:								
Remarks:		ches):						Hydric Soil I	Present? Yes No _^_
	Remarks:								



[NOPAB003_001E] facing east



[NOPAB003_002W] facing west



[NOPAB003_003S] facing south

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: AEP - Allen Sta	ation		City	/County: Paul	lding		Sampling Date: 7	⁷ /15/15	
Applicant/Owner: AEP									
Investigator(s): SCI Enginee	ring, Inc.		Sec	State: OH Sampling Point: Section, Township, Range: S30 T1N R1E					
Landform (hillslope, terrace, et							Slope	e (%): 1	
Subregion (LRR or MLRA): LF									
Soil Map Unit Name: Hoytvill	e silty clay	La			Long.	NIMI classifi	cation: N/A	•	
Are climatic / hydrologic condit			for this time of year?						
								Na	
Are Vegetation \underline{Y} , Soil \underline{Y} Are Vegetation \underline{N} , Soil \underline{N}	, or Hy	arology <u>· ·</u> · · N	significantly dist	urbed?	Are Normai (Jircumstances	resent? Yes X	NO	
SUMMARY OF FINDING	SS – Atta	ch site r	nap showing sa	mpling poi	nt location	ns, transects	s, important fea	atures, etc.	
Hydrophytic Vegetation Pres	ent?	Yes	No X	Is the Sam	pled Area				
Hydric Soil Present?		Yes	No X	within a W	etland?	Yes	No X		
Wetland Hydrology Present?		Yes X	No	If yes, option	nal Wetland	Site ID:			
Remarks: (Explain alternativ	e procedure	s here or in	a separate report.)	'					
Sample point was to	aken in a	a ponde	d area where	corn was	stunted c	or not growi	ng. Soil sam	ıpling,	
however, indicated	no hydri	c featur	es. There was	s no aeria	l signatur	e on the m	ap. Significa	ınt	
rainfall in the area s	hortly af	ter plan	ting is contribu	uting to ma	any stunt	ed areas ir	i fields. Soil	and	
vegetation consider	ed distu	rbed du	e to farming.						
HYDROLOGY									
Wetland Hydrology Indicate	ors:				2	Secondary Indica	ators (minimum of t	wo required)	
Primary Indicators (minimum	of one is rea	quired; ched	ck all that apply)			Surface Soil	Cracks (B6)		
✓ Surface Water (A1)			Water-Stained Leav		-	Drainage Patterns (B10)			
✓ High Water Table (A2)			Aquatic Fauna (B13			Moss Trim Lines (B16)			
✓ Saturation (A3)			Marl Deposits (B15)		-	Dry-Season Water Table (C2)			
Water Marks (B1)			Hydrogen Sulfide C		D 1 - (OO)	Crayfish Burrows (C8)			
Sediment Deposits (B2)			Oxidized Rhizosphe	_	Roots (C3)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)			
Drift Deposits (B3) Algal Mat or Crust (B4)			Presence of Reduct Recent Iron Reduct	` ,	sile (C6)			,	
Iron Deposits (B5)			Thin Muck Surface)iis (CO) _	✓ Geomorphic Position (D2) Shallow Aquitard (D3)			
Inundation Visible on Ae	(B7)	Other (Explain in Re			aphic Relief (D4)				
Sparsely Vegetated Con			Other (Explain in It	omano)		FAC-Neutra			
Field Observations:		(20)			_				
Surface Water Present?	Yes X	_ No	_ Depth (inches): 2						
Water Table Present?			_ Depth (inches): su						
Saturation Present?	Yes X	_ No	_ Depth (inches): su	ırface	Wetland Hy	drology Prese	nt? Yes X	No	
(includes capillary fringe) Describe Recorded Data (stre	eam gauge.	monitoring	well, aerial photos, p	revious inspec	tions), if avail	able:			
2000	oam gaago,		men, dendi prietee, p		,	G.C.C.			
_									
Remarks:									
İ								l	

VEGETATION – Use scientific names of plants.

	Total Cov	ver UPL	Dominance Test worksheet: Number of Dominant Species 0 (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00% (A/B) Prevalence Index worksheet:
= 1 Y	Total Cov	ver UPL	That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00% (A/B) Prevalence Index worksheet:
= 1 - Y	Total Cov	er UPL	Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00% (A/B) Prevalence Index worksheet:
= 1 - Y	Total Cov	ver UPL	Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
= 1 	Total Cov	ver	Prevalence Index worksheet:
= 1 - Y	Total Cov	ver	Total % Cover of: Multiply by:
= 1 	Total Cov	ver	OBL species x 1 =
= 1 Y	Total Cov	ver UPL	FACW species x 2 =
= 1 Y	Total Cov Yes	ver UPL	FAC species x 3 =
= 1 Y	Total Cov Yes	ver UPL	FACU species x 4 =
= 1 Y	Total Cov Yes	ver UPL	UPL species 5 x 5 = 25 Column Totals: 5 (A) 25 (B) Prevalence Index = B/A = 5.0 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) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
= 7 Y	Total Cov Yes	ver	Column Totals: 5 (A) 25 (B) Prevalence Index = B/A = 5.0 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) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
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= 1 Y	Total Cov Yes	ver UPL	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) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
= 7 <u>Y</u>	Total Cov Yes	UPL	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) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
= 7	Total Cov	UPL	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
Y	Yes	UPL	3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
			data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must
			¹ Indicators of hydric soil and wetland hydrology must
			be present unless disturbed or problematic
			be precent, amose dictarbed of presidinatio.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
			at breast height (DBH), regardless of height.
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than 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.
			Woody vines – All woody vines greater than 3.28 ft in
	Total Cov	·or	height.
	Total Cov	'CI	
— –			Hydrophytic
			Vegetation Present? Yes No X
= ¬	Total Cov	ver .	
1			
		= Total Cov	= Total Cover

SOIL Sampling Point: NOPAA006

Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	SType ¹	Loc ²	Texture	Remarks
0-2	10YR 4/3	100	<u> </u>	/0	- i Ahe		SiC	INCHIGINS
2-13	10YR 4/3	98	10YR 4/6	2	С	M		
13-21	10YR 4/3	85	10YR 5/8	15	<u>C</u>		·	
13-21	1011(4/3		10110 3/6			IVI	<u> </u>	
¹ Type: C=C	oncentration, D=De	pletion, RM	∕I=Reduced Matrix, MS	= S=Masked	Sand G	rains.	² Location: PL	=Pore Lining, M=Matrix.
Black H Hydrog Stratifie Deplete Thick D Sandy I Sandy I Strippe Dark St	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R,	MLRA 149	Polyvalue Belov MLRA 149B) Thin Dark Surfa Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Sur Depleted Dark S Redox Depressi	ce (S9) (I flineral (F ² Matrix (F2 (F3) fface (F6) Surface (F ions (F8)	LRR R, N 1) (LRR I)	ILRA 149B (, L)	Coast Prair 5 cm Mucky Dark Surfac Polyvalue E Thin Dark S Iron-Manga Piedmont F Mesic Spoc Red Parent Very Shallo Other (Expl	(A10) (LRR K, L, MLRA 149B) ie Redox (A16) (LRR K, L, R) / Peat or Peat (S3) (LRR K, L, R) se (S7) (LRR K, L) selow Surface (S8) (LRR K, L) surface (S9) (LRR K, L) nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B) lic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks)
	Layer (if observed):						
Type: Depth (ir	iches).						Hydric Soil Pres	sent? Yes No X
Remarks:	icites).							



[NOPAA006_001N] facing north



[NOPAA006_002E] facing east



[NOPAA006_003W] facing west

Waterbody Data Sheet

TTULOIDO	dy Data One									
Survey D	escription									
Project Nan	ne:		Waterbo	ody Name:				Waterbody ID	:	Date:
AEP Alle	n Station		N/A	N/A				NOPAA005	NOPAA005 7	
State:	County:		l	Company: Crew Men				mber Initials:	Photo ID(s):	l
ОН	Paulding			SCI Engin	neer	ing	JS/TC		001 N 002	S 003 E
Tract Numb	per(s):		Milepost Entry:	Mil	lepost E	xit:	Associated W	etland ID(s):		
05-29-00	5-00, 05-29-0	06-00		n/a n/a				None		
Survey Typ (check one)		Centerline		Re-Route Access Road			oad	Other:		
Physical	Attributes									
Stream Clas (check one)	ssification: ✓	Ephemeral		Intermittent	P	erennial		Connectin	ng swale ^a	
Waterbody (check one)	Type: Lake	Pond:		Ri	iver	□s	tream	✓ Drainage Ditch	Other:	
онwм		OHWM Indi								
Width:	n/a ft.	(check all that a	opiy)	Clear I on bar		∐s	helving	Wrester vegetat	1 1	uring Water staining
Height:	ft.	☐ missin		vegetation line debris				Abrupt plant Soil characteristic change		
	aterbody - Top o k at Centerline:	of Bank to		dth of Waterbody - iter Edge at Center		er Edge	to	Depth of War	ter at Centerline	
n/a_ft.				n/a ft.				n/a_ft.		
Sinuosity: (check one)			er veloci			Bank he	ight		Bank slope	
(Grieck Grie)	✓ Straight	(Appl)	<i>JA.)</i>	•		R	ight:	1 _{ft.}	Rig	ght: n/a degrees
Meandering			-	fps			Left:	 1 _{ft.}	L	Left: n/a degrees
Qualitativ	ve Attributes							11.		degrees
Water Appe									_	
(check one)	No wa	iter 🗸 Cle	ar		een surfac	е	Surface scum	Algal mats	Other:	
Substrate: (check all that a	Bedro	ck Gra	avel	Sand	√ :	Silt/clay		Organic	Other:	
% of Substi	rate:	_ %	%	%		100 g	%	%		%
Width of Ri	parian Zone:	Vegetative (check all that		1 1			Г	Charles		Z Harrisa
_	n/a ft.	Avg. DBH		Trees:		in.	L	Shrubs:	in.	✓ Herbs
Dominant E	Bank Vegetation	:								
Sched	onorus praten	sis								
Aquatic Hal	bitats (ex: submerg	ed or emerged aqu	uatic vegeta	tion, overhanging banks/ro	oots, lea	ıf packs, lar	ge submerge	ed wood, riffles, deep	pools):	
	ganisms Observ	ed:								
n/a										
	nd/or T&E Specie	es Observed:								
none none										
Tributary is (check one)	s:	Natural		Artificial, man-ma	ade	✓ Mar	nipulated			
Disturbance (check all that a		Livestock access		Manure in waterbody		Waste di pipes	scharge	✓ Oth	ner: mowing, f	farming
Stream Qua	ality⁵:	High		Moderate		Low	N/A	Į.		

- Connecting swales are water features that do not meet the definition of a waterbody (not an ephemeral waterbody) in that there is not a defined bed, bank, and ordinary high water mark, however, it is a water conveyance feature that is characterized by flow volume, frequency, and duration to make it more than just an erosional feature and connects two potential waters of the U.S. and thereby may be subject to Section 404 permitting.
- ^b **High Quality:** Natural channel, natural vegetation extends at least one or two active channel widths on each side; banks stable and protected by roots; water color is clear to tea-colored; no barriers to fish movement; many fish cover types available; diverse and stable aquatic habitat; no disturbance by livestock or man.

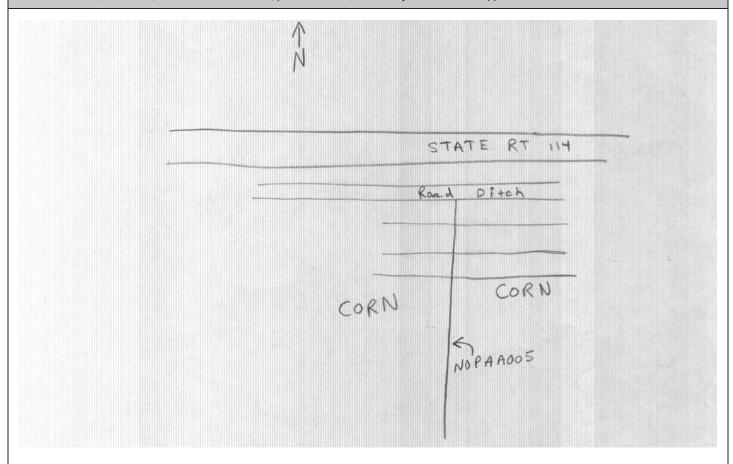
Moderate Quality: Altered channel evidenced by rip-rap; natural vegetation extends 1/3-1/2 of the active channel width on each side; filtering function or riparian vegetation only moderately compromised; banks moderately unstable; water color is cloudy, submerged objects covered with greenish film; moderate odor; minor barriers to fish movement; fair aquatic habitat; minimum disturbance by livestock or man.

Low Quality: Channel is actively down cutting or widening; rip rap and channelization excessive; natural vegetation less than 1/3 of the active channel width on each side; lack of regeneration; filtering function severely compromised; banks unstable (eroding); water color is muddy and turbid; obvious pollutants (algal mats, surface scum, surface sheen); heavy odor; severe barriers to fish movement; little to no aquatic habitat; severe disturbance from livestock or man.

Waterbody ID:	
NOPAA005	

Waterbody Sketch

Include north arrow, centerline, distance from centerline, photo locations, and survey area/corridor if applicable.



Notes

This point is taken in a shallow drainage ditch between fields and shows up as an aerial signature on the map. The ditch is fully vegetated.

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

2/26/2016 4:23:46 PM

in

Case No(s). 16-0074-EL-BLN

Summary: Letter of Notification AEP Transco LON for Timber Switch-Haviland Project electronically filed by Mr. Hector Garcia on behalf of AEP Ohio Transmission Company