

## USFWS / PFBC Bog Turtle Habitat Evaluation Field Form<sup>1</sup>

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(revised 06/01/2006) Project/Property Name: PA Pipeline Project Project type: Pipeline construction Sunoco Logistics, LP Applicant/Landowner Name: County: Ches for Quad: Downs, form Township/Municipality: Uwchlan PNDI# FWS 2014-0200 Potential conflict with USFWS species? XY □ N **ACTION AREA<sup>2</sup>** Does the Phase 1 survey include <u>all</u> wetlands in the action area?  $\Box Y \Box N^3$ Action area size: WETLAND ID: H-/ PHOTOS TAKEN: \(\Delta\) Yes \(\Delta\) No WETLAND SIZE: Wetland size estimation – If actual acreage is not known at time of investigation, check one:  $\square$  < 0.1 acre  $\square$  0.1-0.5 acre  $\square$  >0.5 to <1 acre  $\square$  1-2 acres  $\square$  2-4 acres  $\square$  5+ acres  $\square$  10+ acres Lat 40.065498 Long -75.684549

nd) GPS Datum (check one): NAD 27 NAD 83 WGS 84 WETLAND LOCATION: (approximate center of wetland) **SURVEY CONDITIONS & LIMITATIONS** Date of survey: 4/25/14 Time In: Time Out:

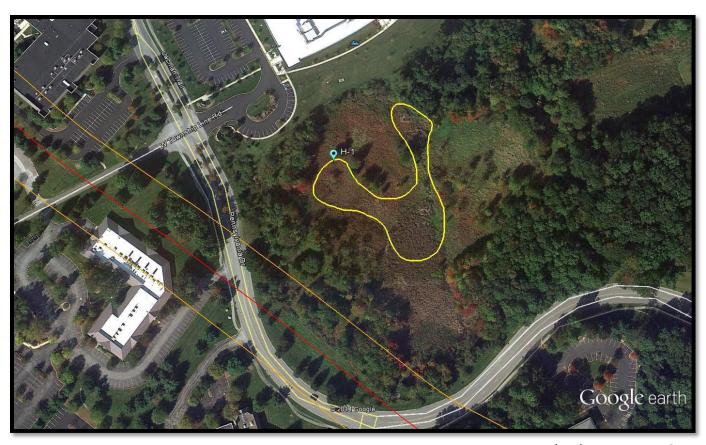
Last precipitation: 

- 24 hours - 7 days - 1 week unknown Drought conditions? 

- Y - N - Unknown How much of this wetland is located *off-site* (i.e., outside the property boundaries or right-of-way)?  $\square$  none of it – the entire wetland is within the property boundaries (skip next 2 questions) some of it – \_\_\_\_\_ acres or \_\_\_\_ % of the wetland appears to be located off-site If part of this wetland continues off-site, how much of the off-site portion was surveyed (on foot)? □ none of it all of it □ part of it (\_\_\_\_\_\_% or \_\_\_\_\_ acres of the off-site portion) How much of the off-site portion of this wetland is visible (e.g., from the subject property or from a public road)? Dalf of it □ part of it (at least \_\_\_\_\_ acres) □ none of it Are there any wetlands located off-site and close enough to be affected by this project? □Y □ N □ Unknown If yes, *could* they be potential bog turtle habitat?  $\square$   $\square$   $\square$   $\square$  Unknown Describe surrounding landscape (wetlands, forest, subdivision, agricultural field, fallow field, etc.): Forest, roads, corporate park WETLAND CHARACTERISTICS Wetland type(s) present and % cover: PEM 70 PSS 10 PFO 20 POW \_\_\_\_ Y \( \subseteq \text{N} \) Are there any signs of disturbance to hydrology (ditching, filling, ponds, roads, etc.)? If yes, describe

Y | N Are there any signs of disturbance to vegetation (mowing, pasturing, burning, etc.)? If yes, describe

Project Name	PA Pipelin	e Project		Wetland (con
 Hydrology				
YUN		<u>visible</u> or □ <u>likely</u> ?	Watercress present? [	Yes □ No
YUN		adjacent to wetland?		
Y D N	Saturated soils pres	ent? If yes, year-round	? Likely 🗆 Unlike	ly   Unknown
<b>(</b> Y □ N				depressions (" deep)
SV III	Fridance of flooding	ep) Aarger pools/po	inators ( deep)	who and in
Υ□N	Evidence of flooding	ig? If yes, describe man	icators 5 Porn	n water pools in the time of site (Typle
Soils Mapping	Unit (optional):	9	1200	THE TYPE
		type? □ YES □ NO	□ Unknown	
Soils DEM	Portion of Wetland			
Solis - PEIVI	T	DEM) :	Mucky soils range	Most of the mucky part(s)
$Mucky^4$ ?	How much of it (		in depth from:	
YES 🗆 NO		29% 🗆 30-49%	2 to 8 "	the wetland can be probed
A 125 110	□ 30-7070 □ × 7		2 10 0	3-5" □ 6-8" □ 9-11" □ ≥1
Non-mucky <sup>6</sup> ?	How much of it (	PEM) is <b>non-mucky</b> ?		
YES 🗆 NO		29% 🗆 30-49%		
XIES LINO	□ 50-70%	0%		
Soils - PSS a	nd PFO Portions of	Wetland		
	How much of it i		Mucky soils range	Most of the mucky part(s)
Mucky <sup>4</sup> ?		29% □ 30-49%	in depth from:	the wetland can be probed
YES DNC	□ 50-70% □ >7		to"	$\square$ 3-5" $\square$ 6-8" $\square$ 9-11" $\square$ $\ge$ 1
	30-7070	070		3-3 0-8 0-8 0-11 0-21
W-41 XV	4-4: (abaa4a	a the westland as a who	la)	
		e the wetland as a who verage), and also circle		verage)
meek (M) II pi	esent (= 370 dreat eo	volugo), una also on ole	11 40111114111 (= 2070 00	, orago).
sedges Fu	hes skunk cabba	ge cattail sweet f	lag jewelweed 🗆	sphagnum moss
sensitive fern	rice cutgrass	tearthumb reed canar	ry grass Phragmites	purple loosestrife
alder □ dog	wood red maple	willow poison sur	nac multiflora rose	
dditional don	inant species:	Stiltgrass),	rubus	
Towntiles				
Herptiles Were any bog t	urtles observed?	VES <sup>7</sup> NO If ye	es, how many?	
	□ observed □ pre		s, now many.	
other herpthes	□ ooserved □ pre	viously observed.		
		ons: (use additional shee		
Sm	all reliet pu	the of sprin	is-fed sedse	mendow in an
04	herwise hear	vily destacled	wetland (-	See Table
NVESTICAT	OR'S OPINION			
YES NO		The hydrology criterion	8 for hog turtle habitat	is met
XYES DNC		The <u>flydrology</u> criterion The soils criterion for b		
XYES DNC		The <u>sons</u> efficient for a		
YES DNC		This wetland is potentia	_	
			and the same of th	
certify that to	the best of my know	ledge, all of the information	ation provided herein i	s accurate and complete.
Jason Tes			1	4/7 </td
				1/27/
Investigator	's Name (print)	//In	vestigator's Signature	/ Date



Wetland H-1, Map 176





## USFWS / PFBC Bog Turtle Habitat Evaluation Field Form (revised 06/01/2006)

Project/Property Name: PA Pipeline Project
Project type: Pipeline construction
Applicant/Landowner Name: Sunoco Logistics, LP
County: Chester Quad: Downingtown Pownship/Municipality: Upper Unchland Pownship/Municipality: Upper Unchlan
PNDI # FWS 2014-0200 Potential conflict with USFWS species? XY□N
ACTION AREA <sup>2</sup> Action area size: Does the Phase 1 survey include <u>all</u> wetlands in the action area? $\Box$ Y $\Box$ N <sup>3</sup>
WETLAND ID: <u>C-43</u> PHOTOS TAKEN: ¥ Yes □ No WETLAND SIZE: acres Wetland size estimation – If actual acreage is not known at time of investigation, check one: □ < 0.1 acre □ 0.1-0.5 acre □ >0.5 to <1 acre □ 1-2 acres □ 2-4 acres □ 10+ acres
WETLAND LOCATION: Lat 46.672237 Long 75.696989 (approximate center of wetland) GPS Datum (check one): □ NAD 27 № NAD 83 □ WGS 84
SURVEY CONDITIONS & LIMITATIONS
Date of survey: Time In: Time Out: Last precipitation: □ < 24 hours □ < 7 days □ > 1 week □ unknown Drought conditions? □ Y □ N □ Unknown
How much of this wetland is located <i>off-site</i> ( <i>i.e.</i> , outside the property boundaries or right-of-way)?  Those of it — the entire wetland is within the property boundaries (skip next 2 questions)  Some of it — acres or % of the wetland appears to be located off-site
If part of this wetland continues off-site, how much of the <i>off-site portion</i> was surveyed (on foot)?  □ none of it □ all of it □ part of it (% or acres of the off-site portion)
How much of the <i>off-site portion</i> of this wetland is visible (e.g., from the subject property or from a public road)? $\Box$ all of it $\Box$ part of it (at least acres) $\Box$ none of it
Are there any wetlands located off-site and close enough to be affected by this project? $\Box Y \Box N \Box$ Unknown If yes, <i>could</i> they be potential bog turtle habitat? $\Box Y \Box N \Box$ Unknown
Describe surrounding landscape (wetlands, forest, subdivision, agricultural field, fallow field, etc.):  Woods (south + east); Ball fields + residential (worth + west)
WETLAND CHARACTERISTICS
Wetland type(s) present and % cover: YPEM YO YPSS 10 YPFO 50 POW
Y \( \text{N} \) Are there any signs of disturbance to \( \frac{hydrology}{hydrology} \) (ditching, filling, ponds, roads, etc.)? If yes, describe \( \frac{hy}{N} \) \( \text{N} \) Are there any signs of disturbance to \( \frac{hydrology}{hydrology} \) (mowing, pasturing, burning, etc.)? If yes, describe
Are there any signs of disturbance to <i>vegetation</i> (mowing, pasturing, burning, etc.)? If yes, describe

Project Name	PA Pipeli	ne Project		Wetland (con't)
Hydrology				
		Sisible or □ likely?	Watercress present?	□ Yes No
		or adjacent to wetland?	O Maileales III Halilea	dry
Y DN	Saturated soils pr	esent? If yes, year-round surface? Check all that ap	nly: Semall puddles	/depressions ( " deen)
		deep) $\square$ larger pools/po		depressions ( deep)
		ding? If yes, describe indi		<del></del>
oils Mapping	Unit (optional):			
		ed type?	□ Unknown	
Soils – PEM P	Portion of Wetlar	ıd		
Mucky <sup>4</sup> ?	How much of i	t (PEM) is mucky?	Mucky soils range	Most of the mucky part(s) of
	□<10%	0-29% □ 30-49%	in depth from:	the wetland can be probed <sup>5</sup> :
YES 🗆 NO	□ 50-70% □	>70%	2 to 10"	3-5" □ 6-8" □ 9-11" □ ≥12"
Non-mucky <sup>6</sup> ?	How much of i	t (PEM) is non-mucky?		
	□<10% □1	0-29%   30-49%		
YES 🗆 NO	□ 50-70%	>70%		
Soils – PSS an	d PFO Portions	of Wetland		3
	How much of i		Mucky soils range	Most of the mucky part(s) of
Mucky <sup>4</sup> ?		0-29% \( \sigma 30-49\)	in depth from:	the wetland can be probed <sup>5</sup> :
YES NO	□ 50-70% □		to "	□ 3-5" □ 6-8" □ 9-11" □ ≥12"
sensitive fern alder dogv dditional dom  terptiles Vere any bog to ther herptiles	rice cutgrass  wood red mapl inant species  urtles observed?  observed  p	oreviously observed:	ry grass	$s \square$ purple loosestrife
Additional Con	mments/Observa	tions: (use additional sheet	we dend w	/ small mucky see
NVESTIGAT	OR'S OPINION			
⟨YES □ NO		The <u>hydrology</u> criterion <sup>8</sup>		
YES □ NO		The <u>soils</u> criterion <sup>8</sup> for b		
KYES □ NO		The <u>vegetation</u> criterion	_	is met.
MES □ NO	☐ UNSURE	This wetland is potential	I bog turtle habitat.	
certify that to t	the best of my kno	owledge, all of the informa	ation provided herein i	s accurate and complete
Jason Tes		ouge, an or the intolline		and complete.
Jason ies	au10		~ / rem	4/25/14
Investigator'	s Name (print)	/ In	vestigator's Signature	Date



Wetland C-43, Map 175



