

150 E. GAY STREET, SUITE 2400 COLUMBUS, OH 43215-3130 TELEPHONE: 614-744-2570 FACSIMILE: 844-670-6009 http://www.dickinsonwright.com

August 24, 2021

Ms. Tanowa Troupe, Secretary Ohio Power Siting Board Docketing Division 180 East Broad Street, 11<sup>th</sup> Floor Columbus, Ohio 43215-3797

#### **Re:** Case No. 20-1679-EL-BGN

In the Matter of the Application of Pleasant Prairie Solar Energy LLC for a Certificate of Environmental Compatibility and Public Need to Construct a Solar-Powered Electric Generation Facility in Clinton County, Ohio.

**Supplemental Response to Sixth Data Request from Staff of the Ohio Power Siting Board** 

Dear Ms. Troupe:

Attached please find Pleasant Prairie Solar Energy LLC's ("Applicant") Supplemental Response to the Sixth Data Request from the staff of the Ohio Power Siting Board ("OPSB Staff"). The Applicant provided this response to OPSB Staff on August 24, 2021.

We are available, at your convenience, to answer any questions you may have.

Respectfully submitted,

/s/ Christine M.T. Pirik\_

Christine M.T. Pirik (0029759)

(Counsel of Record)

William V. Vorys (0093479)

Matthew C. McDonnell (0090164)

Dickinson Wright PLLC

150 East Gay Street, Suite 2400

Columbus, Ohio 43215

(614) 591-5461

cpirik@dickinsonwright.com

wvorys@dickinsonwright.com

mmcdonnell@dickinsonwright.com

(Counsel agree to receive service by email.)

Attorneys for Pleasant Prairie Solar Energy LLC

Theresa White Randall Schumacher Jonathan Pawley

Grant Zeto

Cc:

Ms. Tanowa Troupe Pleasant Prairie Solar Energy LLC Case No. 20-1679-EL-BGN Page 2

#### CERTIFICATE OF SERVICE

The Ohio Power Siting Board's e-filing system will electronically serve notice of the filing of this document on the parties referenced in the service list of the docket card who have electronically subscribed to these cases. In addition, the undersigned certifies that a copy of the foregoing document is also being served upon the persons below this 24<sup>th</sup> day of August, 2021.

/s/ Christine M.T. Pirik
Christine M.T. Pirik (0029759)

#### Counsel:

kyle.kern@ohioattorneygeneral.gov
thomas.shepherd@ohioattorneygeneral.gov
jhuber@bjglaw.net
pgriggs@bjglaw.net
jyankley@vankleywalker.com
bojko@CarpenterLipps.com
paul@CarpenterLipps.com
wygonski@CarpenterLipps.com
amilam@ofbf.org
lcurtis@ofbf.org
cendsley@ofbf.org

### Administrative Law Judges:

jay.agranoff@puco.ohio.gov david.hicks@puco.ohio.gov

4852-2047-3078 v1 [39579-53]

## BEFORE THE OHIO POWER SITING BOARD

In the Matter of the Application of Pleasant Prairie Solar	)	
Energy LLC for a Certificate of Environmental	)	
Compatibility and Public Need to Construct a Solar-	)	Case No: 20-1679-EL-BGN
Powered Electric Generation Facility in Franklin	)	
County, Ohio.	)	

## PLEASANT PRAIRIE SOLAR ENERGY LLC 'S SUPPLEMENTAL RESPONSE TO THE SIXTH DATA REQUEST FROM THE STAFF OF THE OHIO POWER SITING BOARD

On February 19, 2021, as supplemented on April 7 and 21, 2021, Pleasant Prairie Solar Energy LLC ("Applicant") filed an application ("Application") with the Ohio Power Siting Board ("OPSB") proposing to construct a solar-powered electric generation facility in Franklin County, Ohio.

On June 1, 2021, the Staff of the OPSB ("OPSB Staff") provided the Applicant with OPSB Staff's Sixth Data Request. Now comes the Applicant providing the following Supplemental Response to the Sixth Data Request from the OPSB Staff.

4. Please summarize any coordination competed to date with the OEPA and USACE on water quality permitting.

**Response:** In response to Question 4 of the Response to the Sixth Data Request from OPSB Staff, the Applicant stated, in part, "[a]s there are no anticipated impacts to wetlands and waterbodies, the Project will not need to seek any permits through the USACE or OEPA under Section 404 and Section 401 of the Clean Water Act." To further clarify the Application and this response, please see the attached technical memorandum from Cardno.

Respectfully submitted,

/s/ Christine M.T. Pirik
Christine M.T. Pirik (0029759)
William Vorys (0093479)
Matthew C. McDonnell (0090164)
Dickinson Wright PLLC
150 East Gay Street, Suite 2400
Columbus, Ohio 43215
(614) 591-5461
cpirik@dickinsonwright.com
wvorys@dickinsonwright.com
mmcdonnell@dickinsonwright.com

Attorneys for Pleasant Prairie Solar Energy LLC

4832-6042-2390 v1 [39579-53]



## **Technical Memorandum**

Date Friday, 30 July 2021

**Project No:** E320301701

To: Josh Hreha

Pleasant Prairie Solar LLC

cc: Ryan Rupprecht

From: Stephanie Healey

RE: Pleasant Prairie Solar Energy Project – Additional Wetlands

Cardno, Inc.

Christiana Executive Campus 121 Continental Dr., Suite 308, Newark, DE, 19713

Phone +1 302 395 1919 Fax +1 302 395 1920

same as physical address

www.cardno.com

Cardno is providing this technical memo to provide additional details on wetlands delineated within the Pleasant Prairie Solar Energy Project (Project) Area, which is currently under review by the Ohio Power Siting Board, as case number 20-1679-EL-BGN. Through a miscategorization in the original field collected data, wetlands that were delineated in the field were categorized as forested/woodlots and recommended for avoidance, rather than included and discussed in the Wetland and Waterbody Delineation Report. This technical memo provides the details on those omitted wetlands, delineated during field surveys in September 2020.

Prior to site investigations, the Survey Area was screened using the USFWS NWI, USGS topographic maps, USGS NHD, and the OWI to identify potential wetlands and waterbodies in the vicinity of the Project. The NWI and OWI data shows remotely identified wetlands, which may be based on previous aerial imagery interpretation and soils surveys, while the NHD uses surface water data modeling to identify potential waterways. It is not uncommon for the NHD set to indicate features that are no longer present due to landowners rerouting the channel or moving it underground via tiles. Much of the Project Area, however, is cultivated crop area that limits the development of wetlands.

The NWI and aerial imagery indicates the potential presence of an herbaceous wetland adjacent to or a potential continuation of w012 (Attachment A – Wetland and Waterbody Mapbook). Conditions were examined in the field to determine the extent of onsite wetlands. w012 was delineated to its fullest extent, and confirmed by data point dp036. Further investigation to the east of w012 confirmed the area as uplands, data point dp29, and that the historical herbaceous wetland was no longer present. Data point dp29 lacked hydrophytic vegetation, hydric soil, and wetland hydrology. The area was dominated by soybean crop (*Glycine max*), and sporadic occurrence of barnyard grass (*Echinochloa crus-galli*). Supporting data sheets are provided as Attachment 2.

During field delineations in September 2020, two wetlands totalling 1.97 acres were documented south of the area known as the Darby Dan Airfield. The palustrine scrub shrub (PSS) wetland the palustrine forested (PFO) wetland were of moderate quality, dominated by pin oak (*Quercus palustris*), cottonwood poplar (*Populus deltoides*), buttonbush (*Cephalanthus occidentalis*), and white maples (*Acer saccharinum*). Table 1 provides details on the additional wetlands, and datasheets are provided as Attachment B. Attachment C – Additional Wetland provides illustrative detail of w013 and w014.



Pleasant Prairie Solar is committed to avoidance of all wetlands within the Project Area, and despite the accidental omittance of w013 and w014 from the original dataset, infrastructure has been sited to avoid impacts to all wetlands and waterbodies.

Wetland ID	Latitude	Longitude	Acres	Wetland Type	ORAM Score	Wetland Category	Potential USACE Jurisdictional	Drainage Basin
W013	39.940494	-83.212183	1.83	PSS	46	Cat 2	No	Hellbranch Run
W014	39.94040	-83.206136	0.14	PFO	43	Cat 2	No	Hellbranch Run

## **Attachment A**

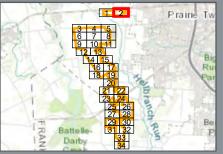
# Wetland and Waterbody Mapbook



Date Created: 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Mar GIS Analyst: Peter.Marsey



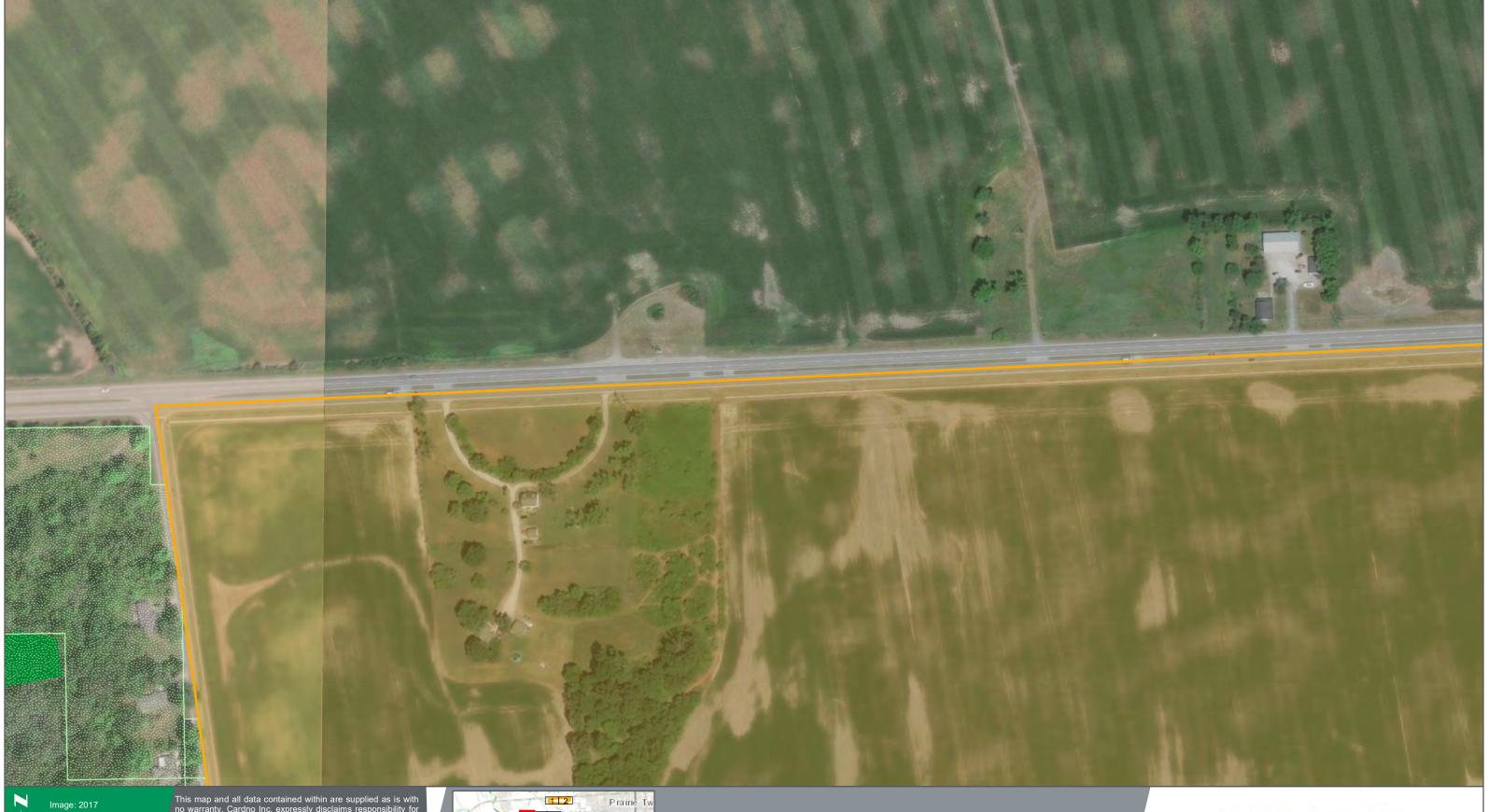
0 100 200 300 400 Feet



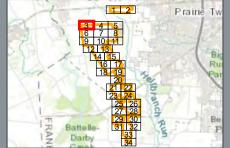
Wetland and Waterbody Maps (Sheet 2 of 34)

Pleasant Prairie Solar Energy Project Franklin County, Ohio





0 100 200 300 400 Feet



Wetland and Waterbody Maps (Sheet 3 of 34)

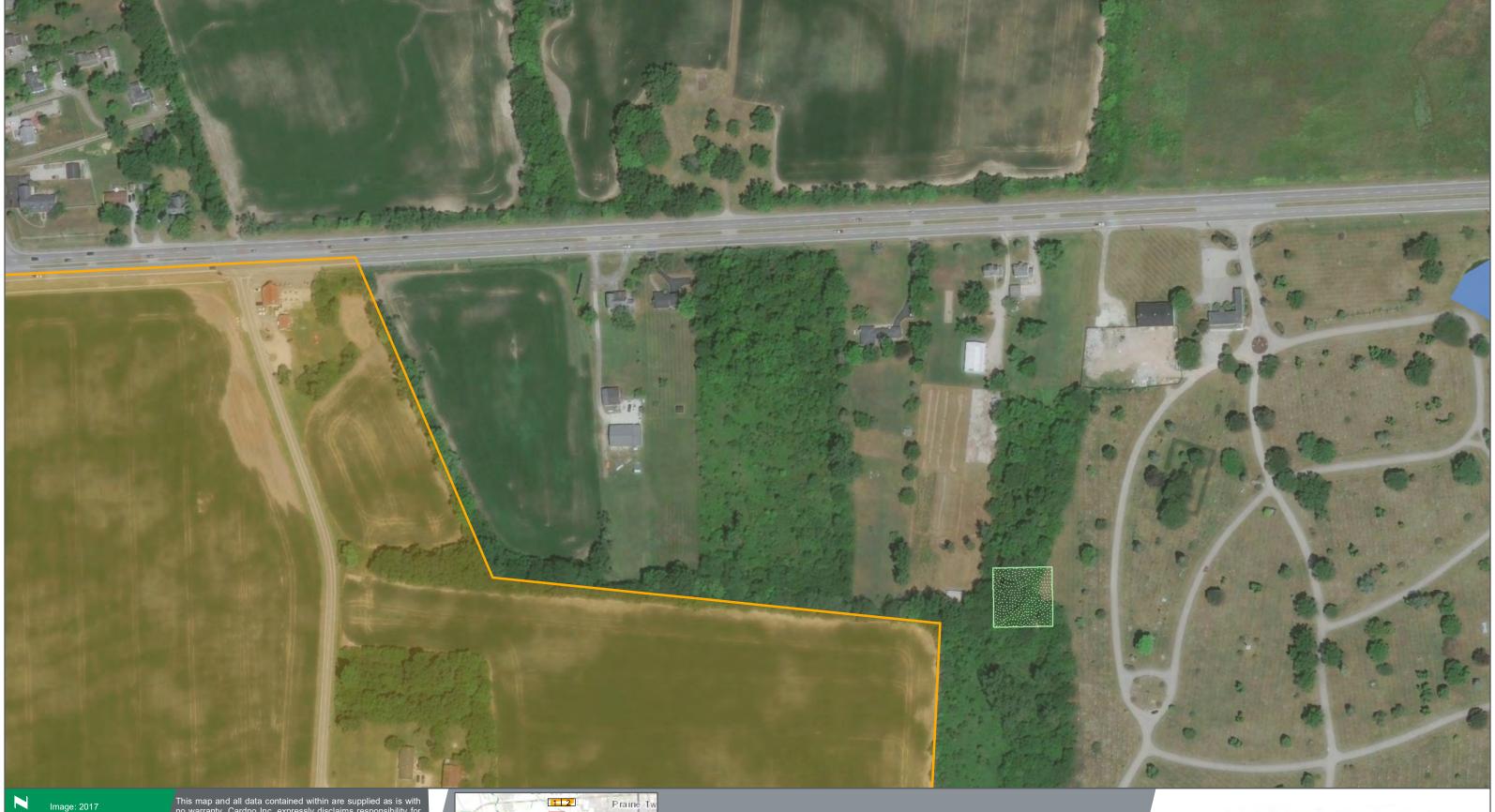
Pleasant Prairie Solar Energy Project Franklin County, Ohio

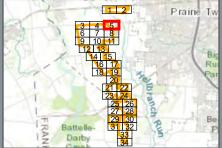




www.cardno.com

Date Created: 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Mag GIS Analyst: Peter.Marsey

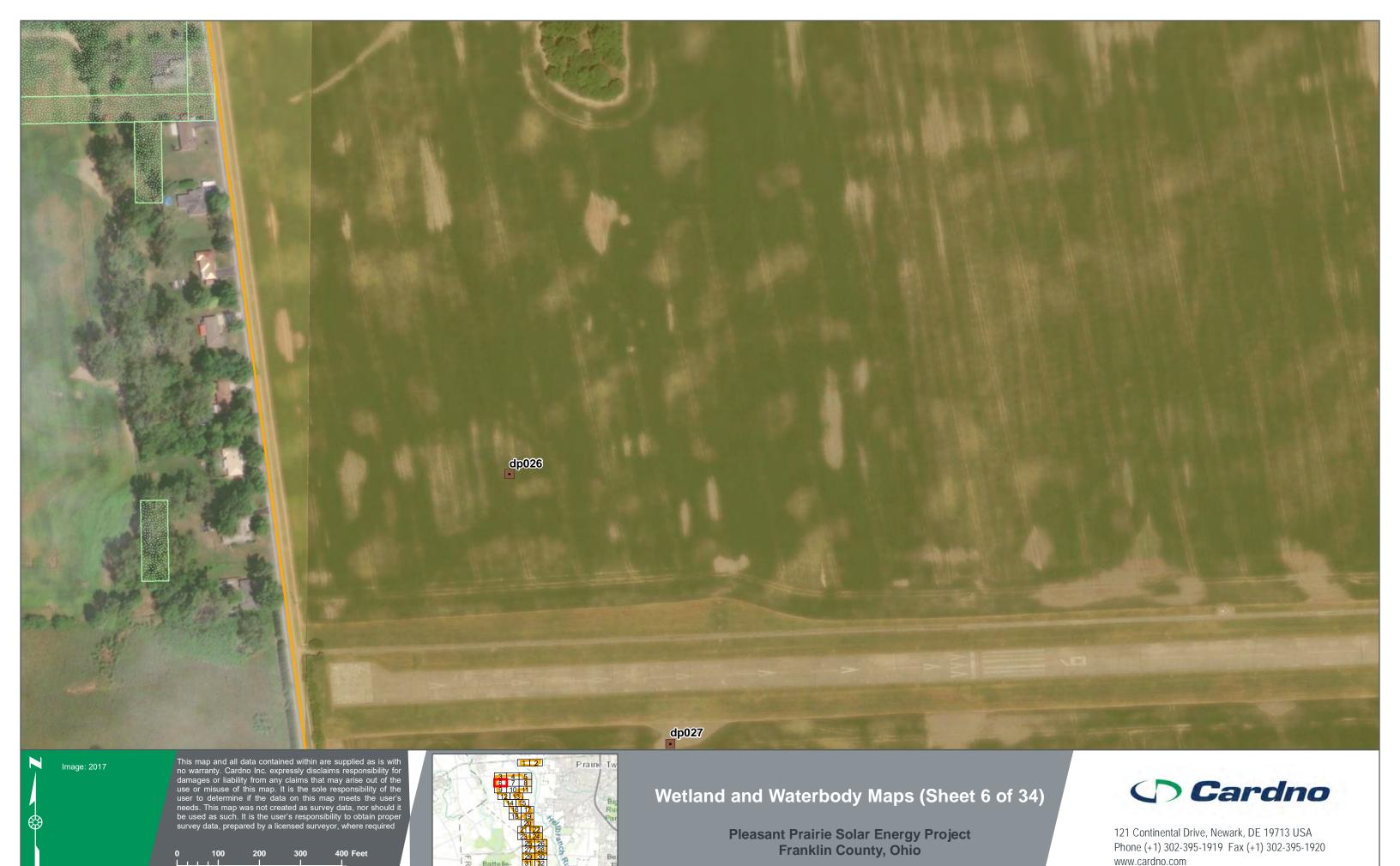




Wetland and Waterbody Maps (Sheet 5 of 34)

Pleasant Prairie Solar Energy Project Franklin County, Ohio



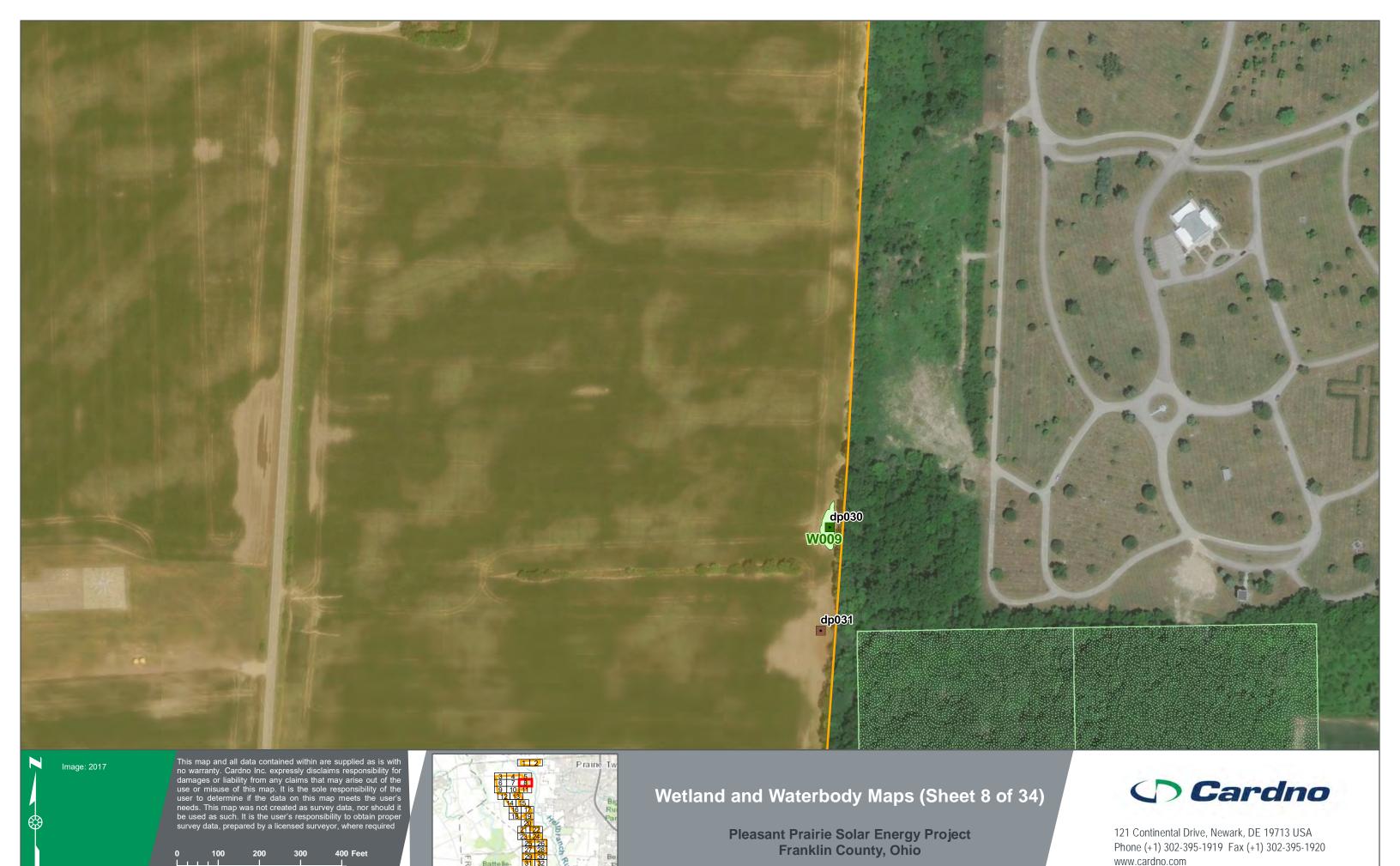




Wetland and Waterbody Maps (Sheet 7 of 34)

Pleasant Prairie Solar Energy Project Franklin County, Ohio





Date Created: 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Map: GIS Analyst: Peter.Marsey



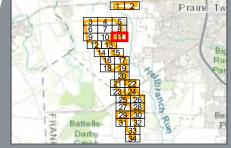
Date Created: 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Maps.r. GIS Analyst: Peter.Marsey



Date Created; 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Map GIS Analyst: Peter, Marsey



0 100 200 300 400 Feet



Wetland and Waterbody Maps (Sheet 11 of 34)

Pleasant Prairie Solar Energy Project Franklin County, Ohio



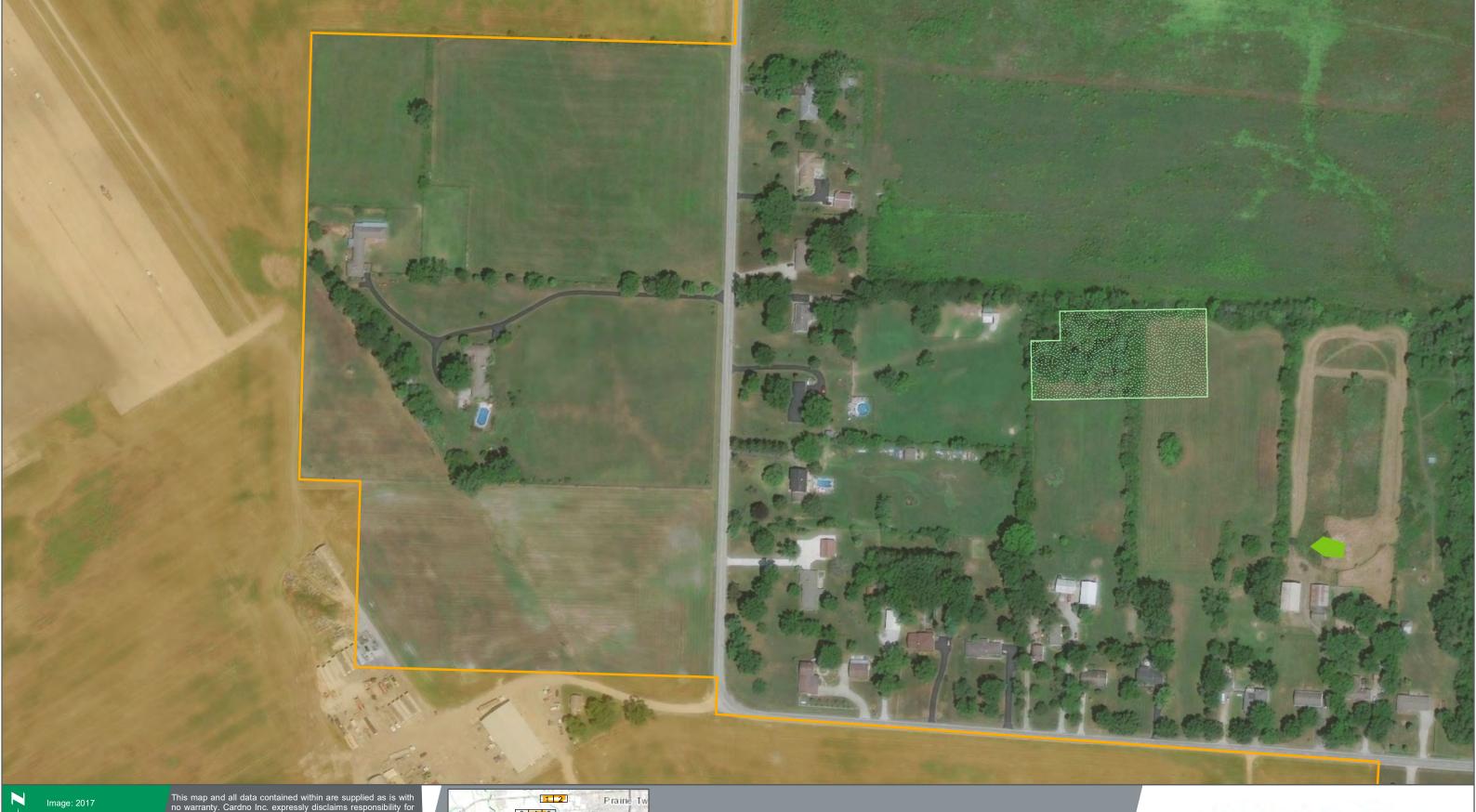


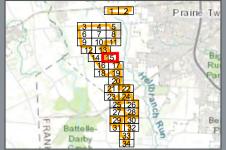
Date Created: 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Maps GIS Analyst: Peter.Marsey



Date Created; 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Map GIS Analyst: Peter, Marsey



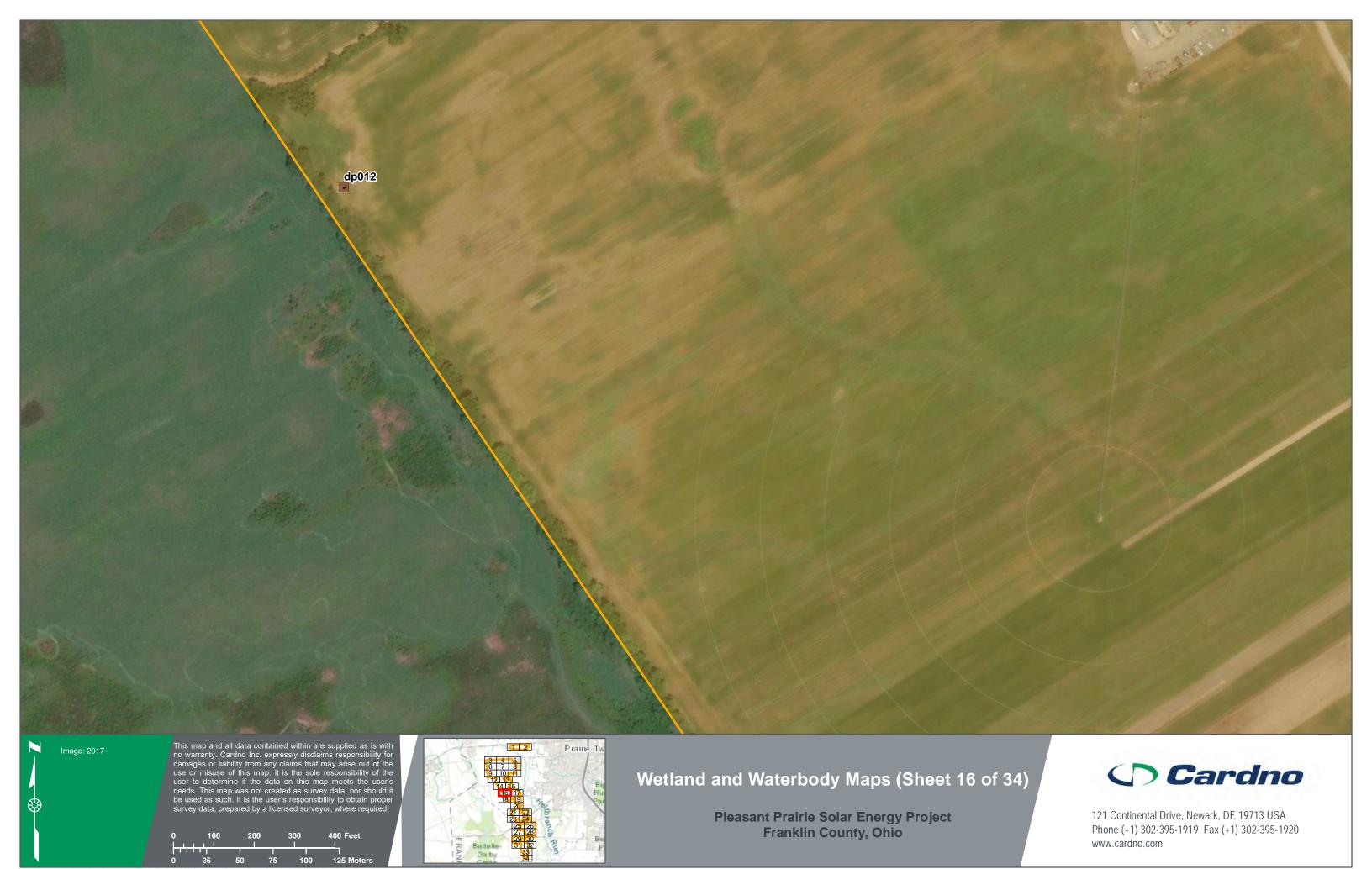




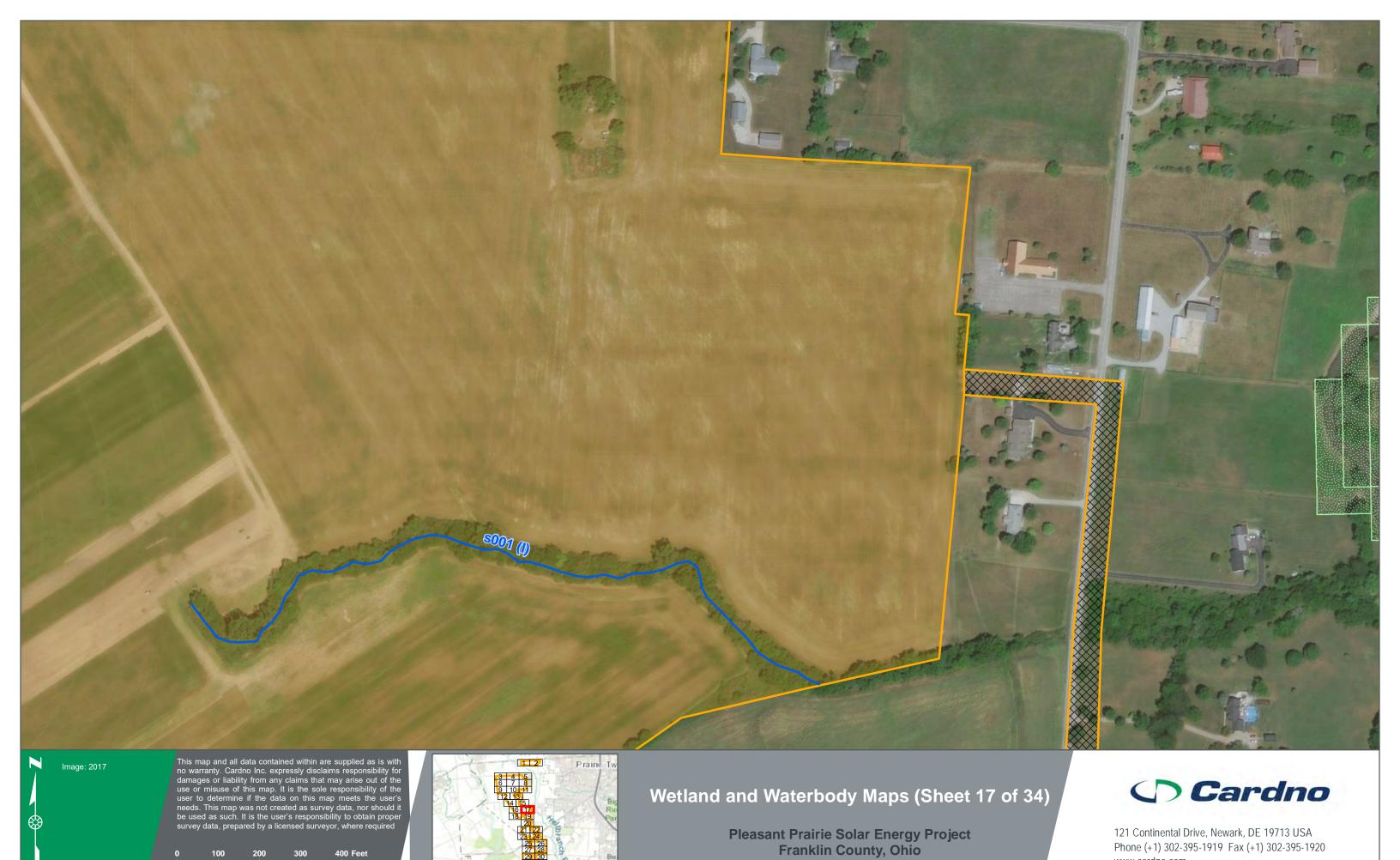
Wetland and Waterbody Maps (Sheet 15 of 34)

Pleasant Prairie Solar Energy Project Franklin County, Ohio



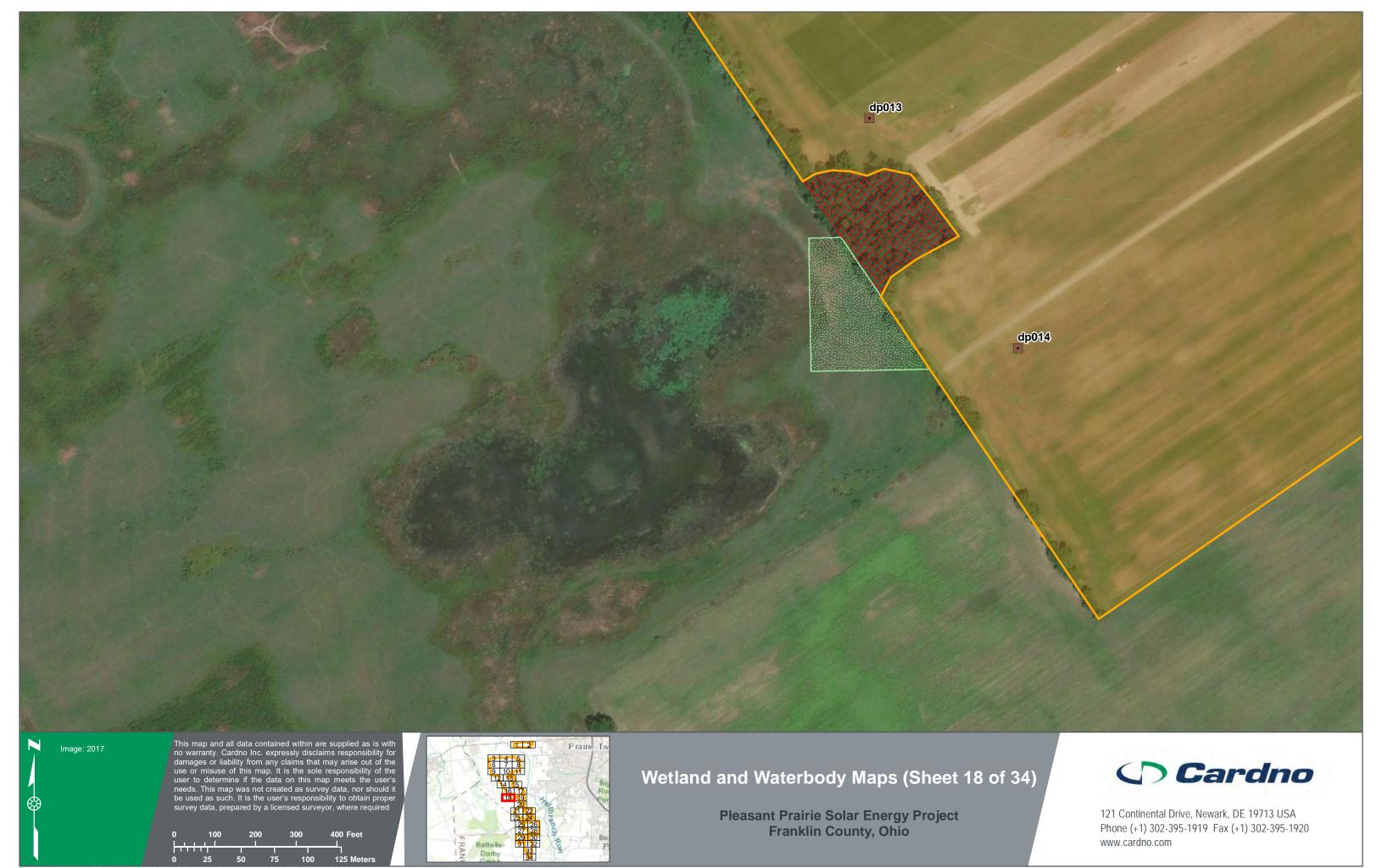


Date Created: 12/23/2020 Date Revised: 4/15/2021 File Path; S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Map: GIS Analyst: Peter.Marsey

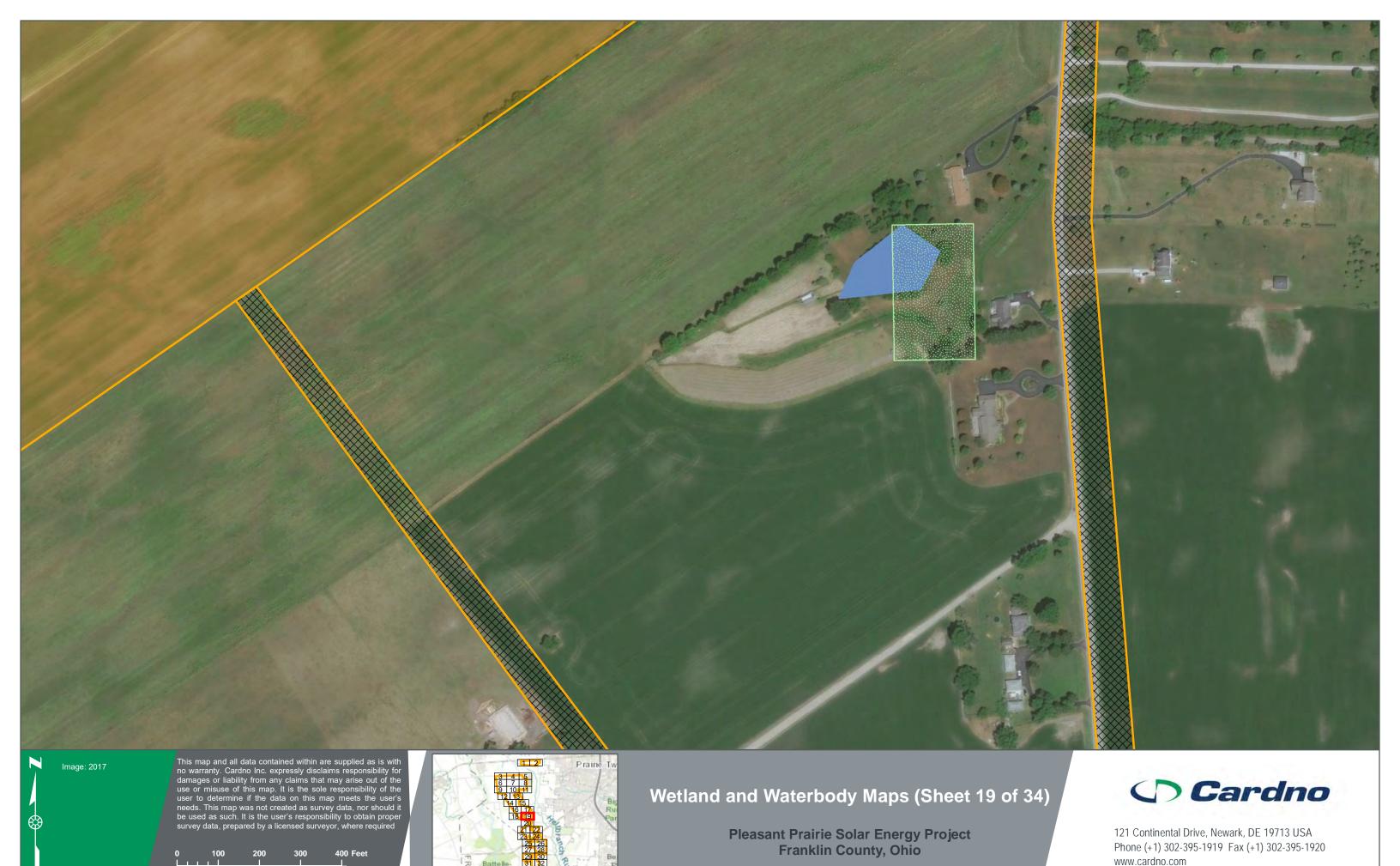


www.cardno.com

Date Created: 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Ma GIS Analyst: Peter.Marsey



Date Created: 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Mar GIS Analyst: Peter.Marsey



Date Created: 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Mag GIS Analyst: Peter.Marsey



Date Created: 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Maps GIS Analyst: Peter.Marsey





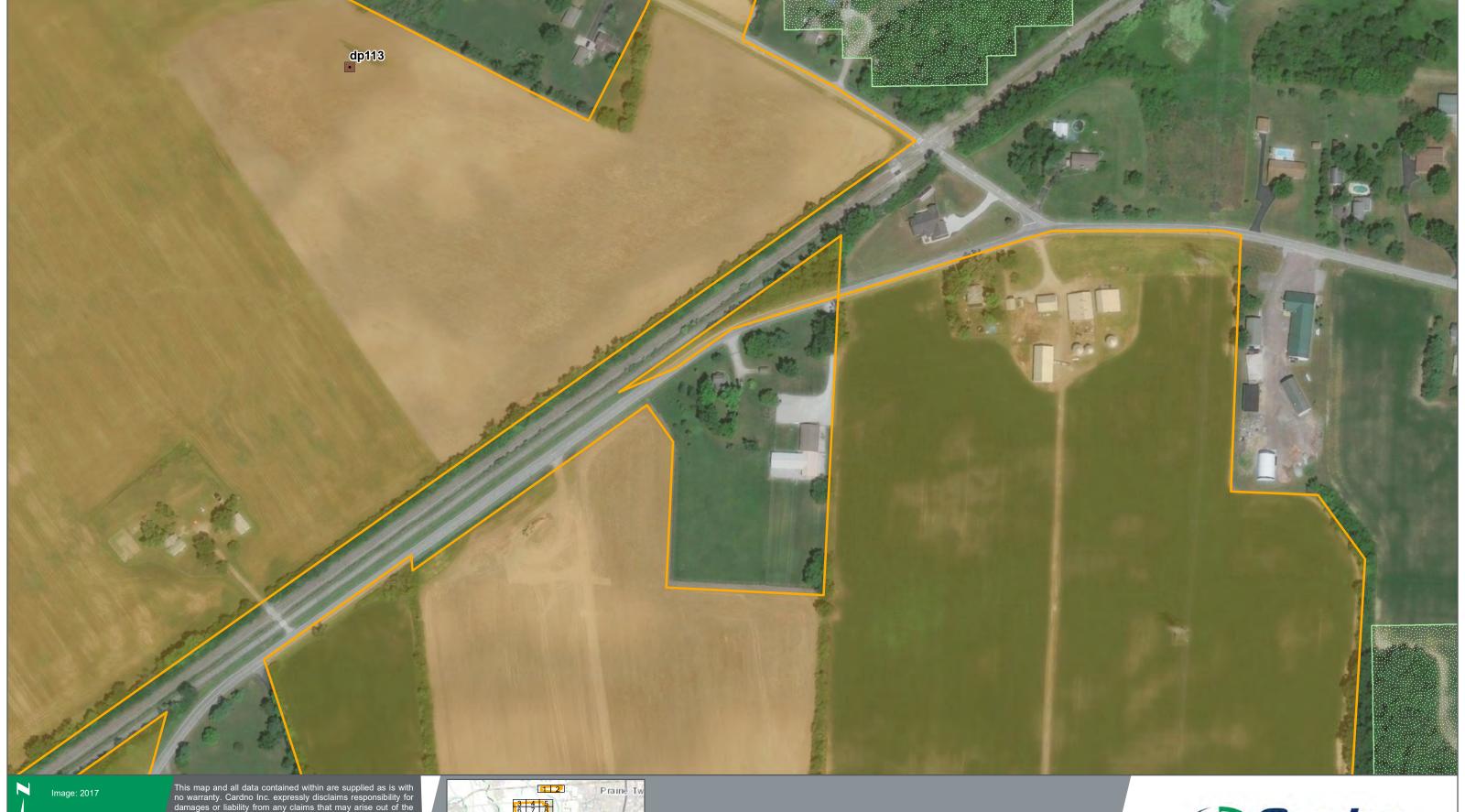
Wetland and Waterbody Maps (Sheet 22 of 34)

Pleasant Prairie Solar Energy Project Franklin County, Ohio

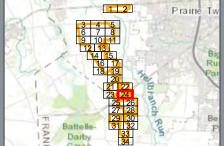




GIS Analyst: Peter.Marsey



0 100 200 300 400 Feet



Wetland and Waterbody Maps (Sheet 24 of 34)

Pleasant Prairie Solar Energy Project Franklin County, Ohio





www.cardno.com

Date Created: 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Map GIS Analyst: Peter.Marsey



Date Created; 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Map GIS Analyst: Peter, Marsey

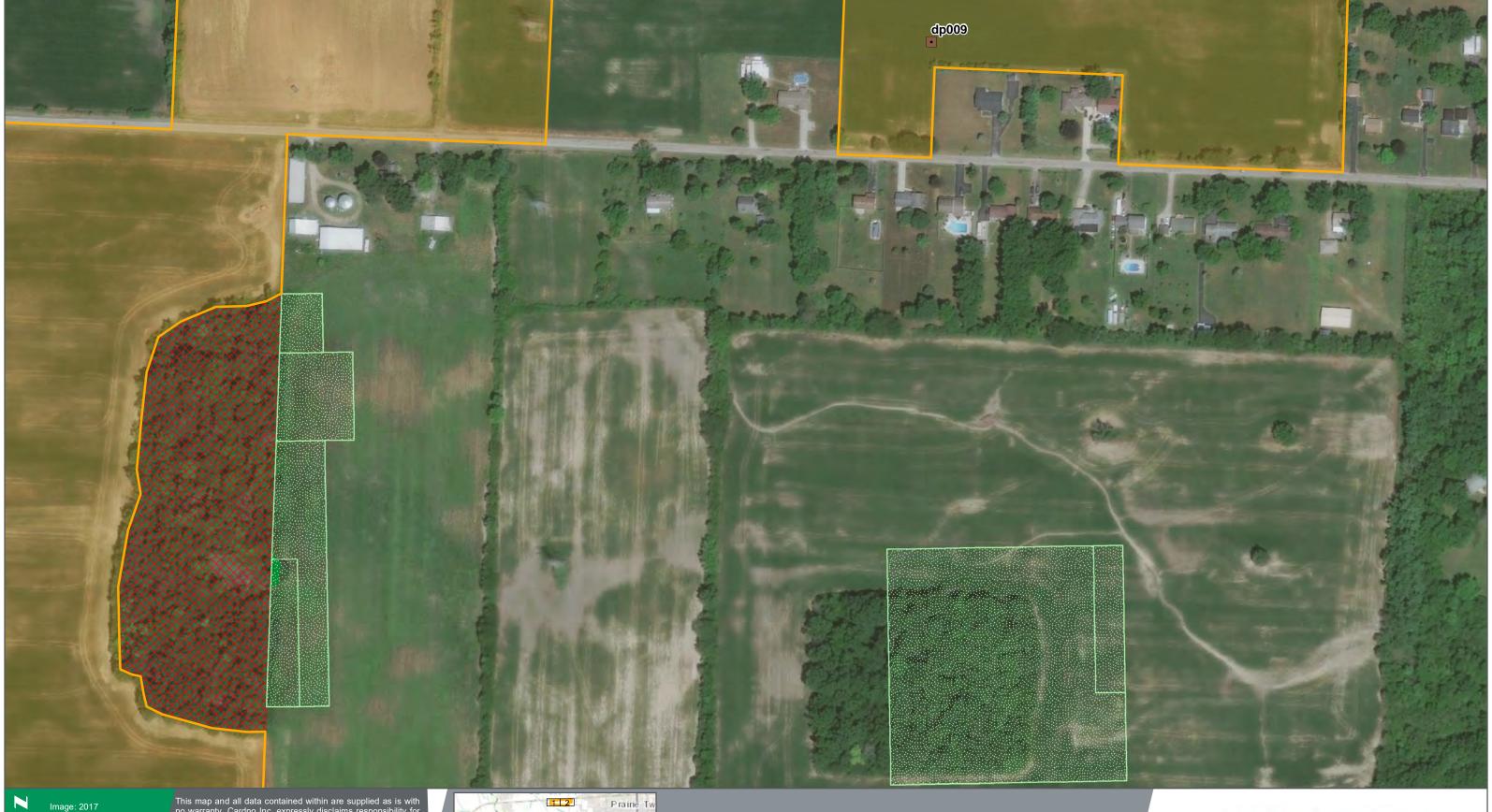


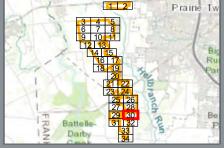
Pleasant Prairie Solar Energy Project Franklin County, Ohio





GIS Analyst: Peter Marsey

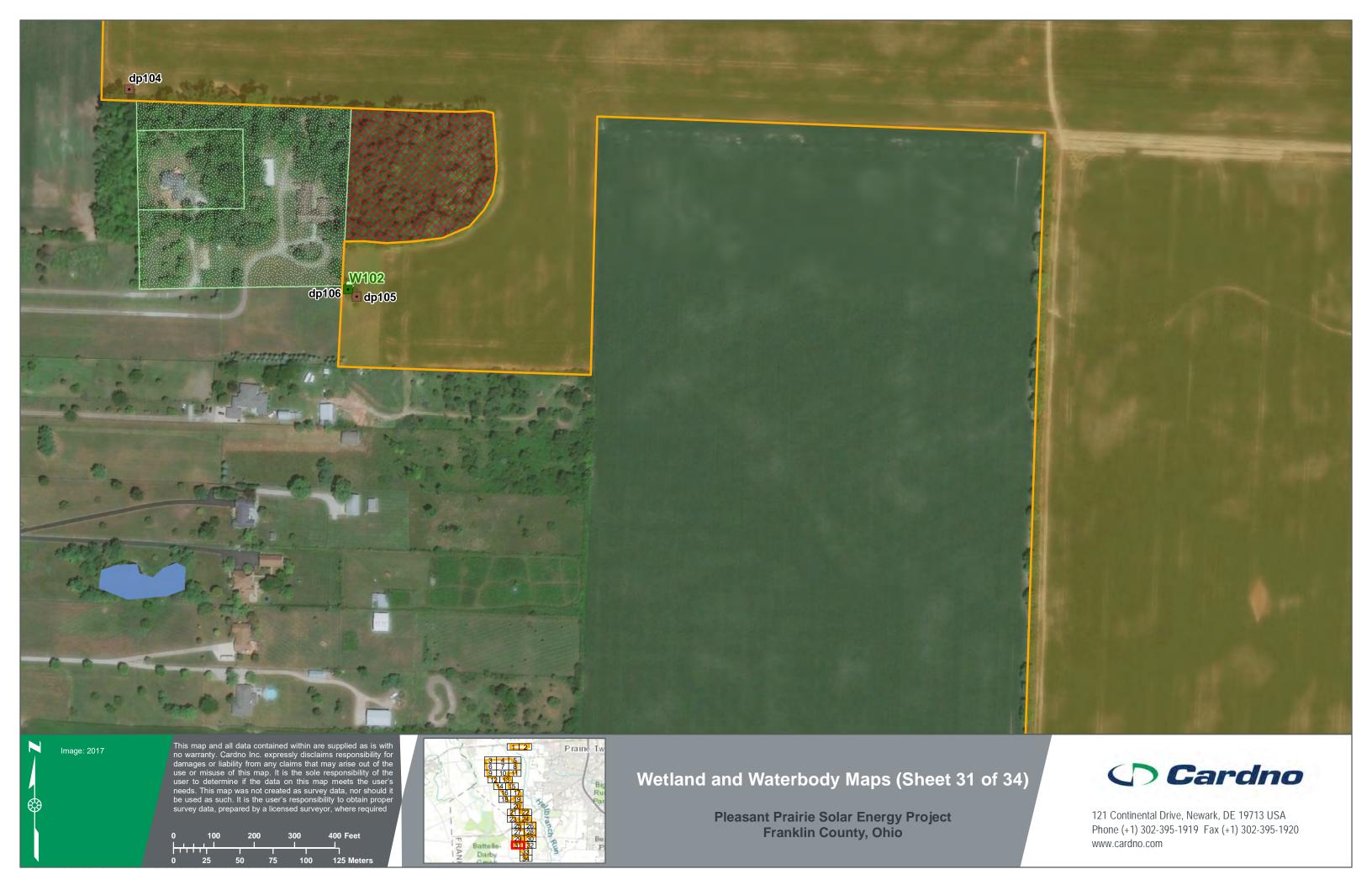




Wetland and Waterbody Maps (Sheet 30 of 34)

Pleasant Prairie Solar Energy Project Franklin County, Ohio





Date Created: 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Map GIS Analyst: Peter.Marsey

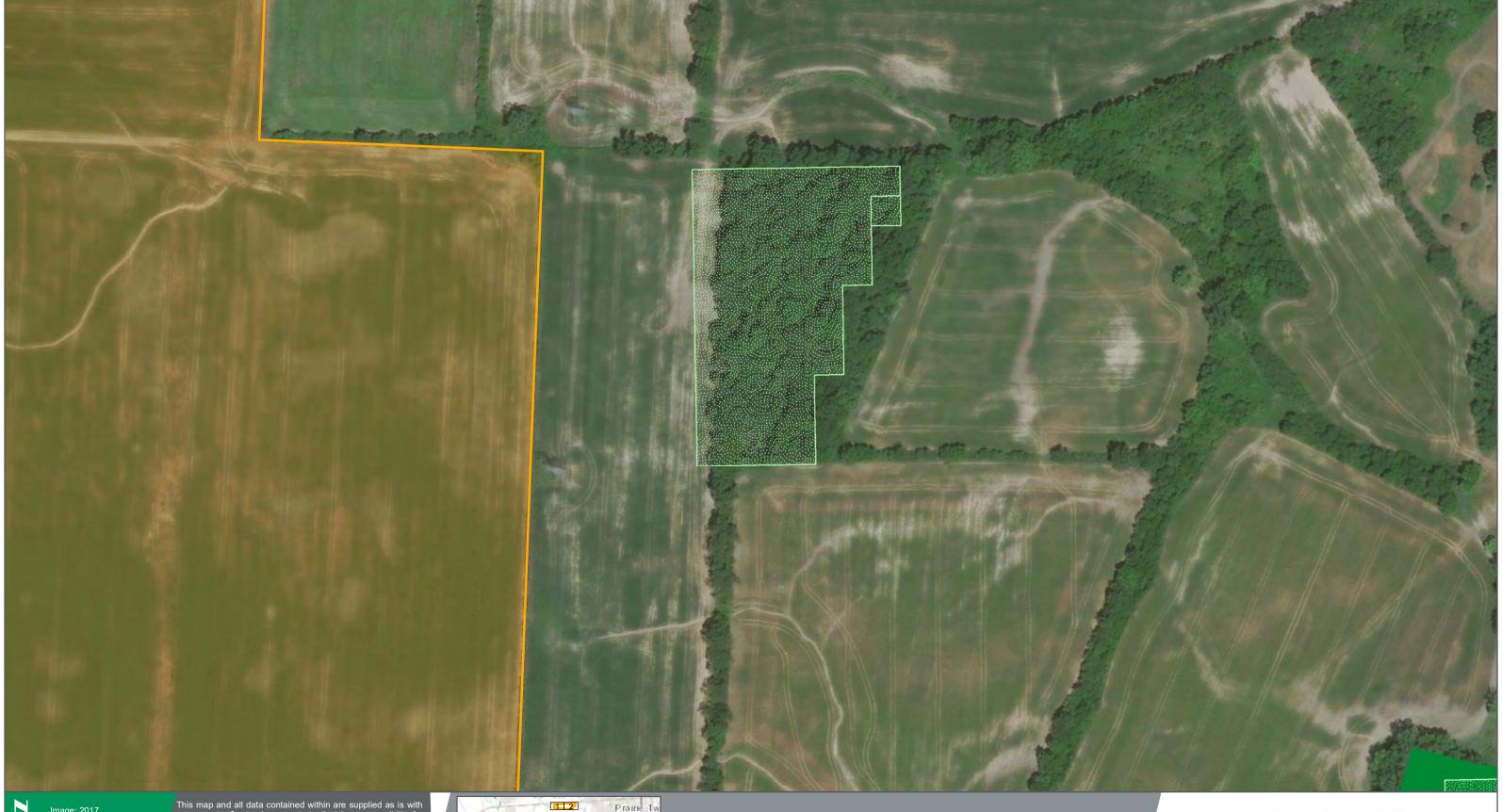
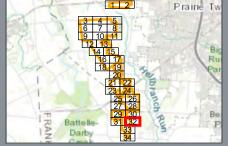


Image: 2017

This map and all data contained within are supplied as is with no warranty. Cardno Inc. expressly disclaims responsibility for damages or liability from any claims that may arise out of the use or misuse of this map. It is the sole responsibility of the user to determine if the data on this map meets the user's needs. This map was not created as survey data, nor should it be used as such. It is the user's responsibility to obtain proper survey data, prepared by a licensed surveyor, where required



Wetland and Waterbody Maps (Sheet 32 of 34)

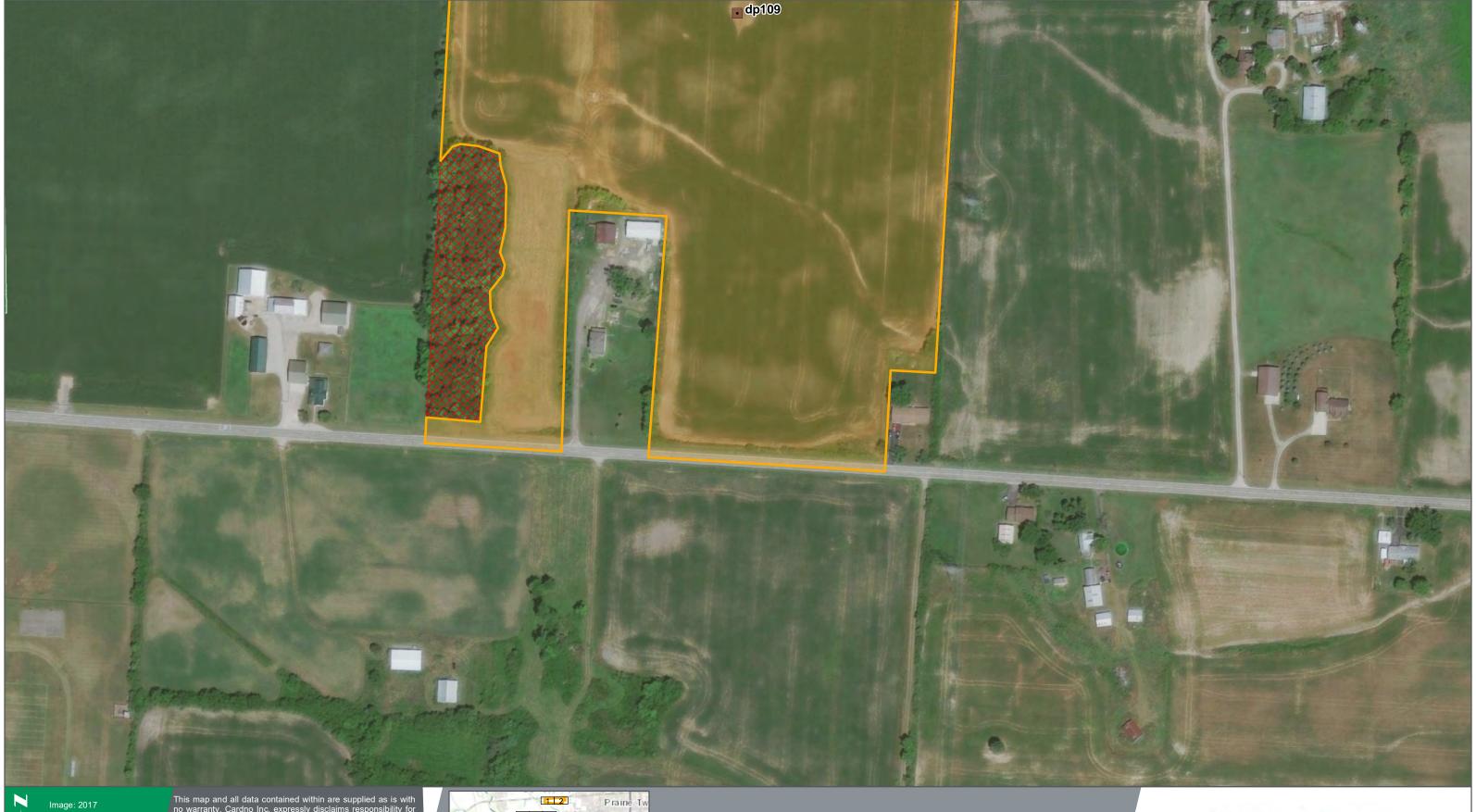
Pleasant Prairie Solar Energy Project Franklin County, Ohio



121 Continental Drive, Newark, DE 19713 USA Phone (+1) 302-395-1919 Fax (+1) 302-395-1920 www.cardno.com

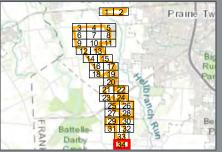


Date Created; 12/23/2020 Date Revised: 4/15/2021 File Path: S:\GIS\Invenergy\Pleasant Prairie Solar Project\MXD\Wetland Report Figures\Wetland and Waterbody Map GIS Analyst: Peter, Marsey



This map and all data contained within are supplied as is with no warranty. Cardno Inc. expressly disclaims responsibility for damages or liability from any claims that may arise out of the use or misuse of this map. It is the sole responsibility of the user to determine if the data on this map meets the user's needs. This map was not created as survey data, nor should it be used as such. It is the user's responsibility to obtain proper survey data, prepared by a licensed surveyor, where required

0 100 200 300 400 Feet



Wetland and Waterbody Maps (Sheet 34 of 34)

Pleasant Prairie Solar Energy Project Franklin County, Ohio



121 Continental Drive, Newark, DE 19713 USA Phone (+1) 302-395-1919 Fax (+1) 302-395-1920 www.cardno.com

## Attachment B Datasheets

Project/Site:	Pleasant Prairie							City/Coun	ty: <u>Gallo</u>	way/Frankl	lin		Sampling [	Date: <u>9/30/</u>	/2020
Applicant/Owner:	Inenergy							Sta	te: OH		Sampling Poin	i:	d	p029	
Investigator(s):	B Hess								Sectio	n, Townshi	ip, Range: N/A				
Landform (hillslope,	terrace, etc.):		Summit							Loc	al relief (concave, co	nvex, none): n	one		
Slope (%):	0%	Lat:		39	9.9403			Long:	_		-83.2045	·		NAD83 UT	ΓM16N
Soil Map Unit Name											00.20.0	NWI classific	-	PEM1A	
Are climatic / hydrole								Va	- V	No	/If no avalois	_	ation.	LIVITA	
-	_		-						s <u>X</u>	_	(If no, explain		.,	V N	
Are Vegetation	<u>N</u>	, Soil	N	, or Hydrology			antly dist				al Circumstances" pre		Yes _	X No	
Are Vegetation	N	, Soil	N	, or Hydrology			lly probler				explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS At	tach site n	<u>nap showinç</u>	រ sampling po	int locatio	ns, transe	cts, im	portant feat	ures, e	tc.					
Hydrophytic Veg	getation Present	?		Yes		No	X	ls th	e Sam	pled Are	ea				
Hydric Soil Pres	sent?			Yes		No	Χ	with	in a W	etland?		Yes	No	Χ	
Wetland Hydrol	ogy Present?			Yes		No	Χ	<u>-</u>							
Remarks:  VEGETATION -	Use scientific														
TEGET/ATION	000 0010111110	Harriot of	piantoi			Al	solute	Dominant	Inc	dicator					
Tree Stratum (Plot :	size: 30' radius)						Cover	Species?		Status	Dominance Test v	vorksheet:			
1.						-		·							
2.											Number of Domina	nt Species			
3.											That Are OBL, FAC			0	(A)
J											I mat Ale ODL, FAC	OVV, OI FAC.		U	(^)
4								<u> </u>							
5											Total Number of D				
								= Total Cover			Species Across All	Strata:		1	(B)
Sapling/Shrub Stratu	um (Plot size: 15' ra	dius)									Percent of Domina	nt Species			
1											That Are OBL, FAC	CW, or FAC:		0%	(A/B)
2.															
3									_						
4.											Prevalence Index	vorksheet:			
5.									_						
								= Total Cover		· ·	Total % C	over of:		Multiply by	V:
								_			That Are OBL, FAC				A/B
Herb Stratum (Plot	size: 5' radius)										OBL species		x1 =		
1. Glycine max				_			90%	Yes		UPL	FACW species	1%	x2 =	0.02	2
Echinochloa cru	ıs-aəlli		·	·			1%	No		ACW	FAC species	170	x3 =	0.02	
	io gain						170			71011	FACU species				
3.									_		· ·	000/	x4 = _	4.54	
4. 											UPL species	90%	x5 = _	4.50	
5											Column Totals:	91%	(A)	4.52	2 (B)
6															
7											Prevale	ence Index = B	/A =	4.97	
8.															
9															
10.											Hydrophytic Vege	tation Indicate	ors:		
11.															
12.											1-Rapid T	est for Hydrop	hytic Vegeta	ation	
13.												nce Test is >5	-		
14.												nce Index is ≤3			
											<u> </u>	ogical Adaptat		de sunnort	tina
15.															
16.												emarks or on a			
17											—— Problema	tic Hydrophytic	vegetation	ı (⊏xpıaın	'/
18											1				
19.											<sup>1</sup> Indicators of hydric	soil and wetla	and hydrolog	gy must	
20.											be present, unless	disturbed or p	roblematic.		
							91%	= Total Cover							
											Hydrophytic				
Woody Vine Stratun	n (Plot size: 30' rad	ius)									Vegetation				
	n (Plot size: 30' rad	ius)													
Woody Vine Stratum  1. 2	n (Plot size: 30' rad	ius) 									1	Voc	No	X	
	n (Plot size: 30' rad							= Total Oscilla			Present?	Yes_	No	X	
	n (Plot size: 30' rad	ius) 						= Total Cover			1	Yes_	No_	X	

COII										
SOIL							<u> </u>	ling Point:	dp029	
	cription: (Describe to t	the depth need			onfirm the a	bsence of	f indicators.)			
Depth (inches)	Matrix	%		dox Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Toyturo	Po	marka	
(inches)	Color (moist)		Color (moist)	70	Туре	LOC	Texture	Rei	marks	
0-12"	10YR 3/1	100					Clay Loam			
12-18"	10YR 4/1	95	10YR 5/6	5	C	M	Clay Loam			
							· ———			
							·			
<sup>1</sup> Type: C=C	Concentration, D=Deplet	ion, RM=Redu	ced Matrix, CS=Covere	ed or Coated	Sand Grains.	<sup>2</sup> Locati	on: PL=Pore Lining,	M=Matrix.		
Hydric Soil I	Indicators <sup>3</sup> :					Test	Indicators of Hydri	c Soils:		
Histoso	ol (A1)		Sandy Gleye	ed Matrix (S4)	)			ese Masses (F12	•	
Histic E	Epipedon (A2)		Sandy Redo					/ Dark Surface (F	<sup>:</sup> 22)	
	Histic (A3)		Stripped Ma				Other (Expla	in in Remarks)		
	en Sulfide (A4)		Dark Surfac	, ,						
	ed Layers (A5)			ky Mineral (F1	-					
	luck (A10)			red Matrix (F2	)					
	ed Below Dark Surface	(A11)	Depleted Ma				3			
	Dark Surface (A12)			Surface (F6)			<sup>3</sup> The hydric soil inc		•	
	Mucky Mineral (S1)			ark Surface (F	-7)			Field Indicators	•	;
5 cm IV	lucky Peat or Peat (S3)		Redox Depr	ressions (F8)			in the United St	ates, Version 8.0	J, 2016.	
Depth (i	inches):					Hydric	Soil Present?	Yes	No	<u>X</u>
HYDROL	OGY									
Wetland Hyd	drology Indicators:									
Primary India	cators (minimum of one	is required: che	eck all that apply)				Secondary Indicate	ors (minimum of	two required)	
Surface	e Water (A1)		Water-Stain	ed Leaves (B	9)		Surface Soil	Cracks (B6)		
High W	/ater Table (A2)		Aquatic Fau	ına (B13)			Drainage Pa	tterns (B10)		
Saturat	tion (A3)		True Aquati	c Plants (B14	)		Dry-Season	Water Table (C2	)	
Water I	Marks (B1)		Hydrogen S	ulfide Odor (C	21)		Crayfish Bur	rows (C8)		
Sedime	ent Deposits (B2)		Oxidized Rh	nizospheres o	n Living Root	s (C3)	Saturation V	isible on Aerial Ir	nagery (C9)	
Drift De	eposits (B3)		Presence of	f Reduced Iro	n (C4)		Stunted or S	tressed Plants (D	)1)	
	lat or Crust (B4) eposits (B5)			Reduction in Surface (C7)	Tilled Soils (	C6)	Geomorphic FAC-Neutral	Position (D2) Test (D5)		
	tion Visible on Aerial Im	agery (B7)		/ell Data (D9)				(= 0)		
	ly Vegetated Concave S			ain in Remark	s)					
Field Observ	vations:									
Surface Wat	ter Present?	Yes No_	X Depth (inches	s): N/A						
Water Table	Present?	Yes No		-						
Saturation P	resent?	Yes No	X Depth (inches	s): N/A	Wetland	l Hydrolog	gy Present?	Yes	No	Χ
(includes ca	pillary fringe)									
Describe Re	ecorded Data (stream ga	auge, monitorin	g well, aerial photos, p	revious inspe	ctions), if ava	ilable:				
Remarks:										

Project/Site:	Pleasant Prairie						City/County:	Galloway/Frank	klin		Sampling Date	e: 10/1/2020	
Applicant/Owner:	Inenergy						State:	ОН	Sampling Point:		dp03	36	
Investigator(s):	B Hess							Section, Townsh	nip, Range: N/A				
Landform (hillslope	e, terrace, etc.):	Т	oeslope						cal relief (concave, conv	ex, none): cc	ncave		
Slope (%):	0%	Lat:		39.9386			Long:		-83.2066			.D83 UTM16N	
	e: Carlisle muck (Cc)	_								NWI classifica		M1F	
	ologic conditions on the	site typical for	this time of year	ar?			Yes_	X No	(If no, explain in				
Are Vegetation	N	, Soil	N	, or Hydrology	N signific	antly dist	_		al Circumstances" prese		Yes X	. No	
Are Vegetation	N	, Soil	N	, or Hydrology		ly probler			, explain any answers in				_
_		_		sampling point loc					, ,	,			
	egetation Present?		up onowing		No	, <sub>1</sub>		Sampled Ar	·na				
Hydric Soil Pre				Yes X Yes X	No			a Wetland?		Yesx	No		
Wetland Hydro				Yes X	No		- Within	a welland:		163	_ '\'-		
Remarks:													
VEGETATION	Use scientific	names of p	lants.						<u> </u>				
Tree Stratum (Plot	t ciza: 20' radius)					solute	Dominant Species?	Indicator	Dominaras Taris	wko best			
,	,					Cover	Species?	Status	Dominance Test wo	rksneet:			
Gleditsia triaca     Populus deltoid						20%	Yes	FACU	Number of Damin and	Species			
2. Populus deltoid	ues					20%	Yes	FAC	Number of Dominant		•	/A\	
3							<del>-</del>		That Are OBL, FACW	i, or FAC:	3	(A)	
4							·						
5						400′			Total Number of Dom		_		
						40%	= Total Cover		Species Across All S	trata:	4	(B)	
	tum (Plot size: 15' rad	ius)							Percent of Dominant				
1									That Are OBL, FACV	I, or FAC:	759	% (A/E	В)
2							· ——						
3													
4									Prevalence Index wo	rksheet:			
5.													
							= Total Cover		Total % Cov		Mu	ultiply by:	_
									That Are OBL, FACW			A/B	3
Herb Stratum (Plot				-					OBL species	70%	_ x1 =	0.70	_
1. Persicaria amp	phibia					70%	Yes	OBL	FACW species	50%	x2 =	1.00	_
2. Echinochloa cr	rus-galli					30%	Yes	FACW	FAC species	40%	x3 =	1.20	_
3. Phalaris arundi	inacea					20%	No	FACW	FACU species	20%	x4 =	0.80	_
4. Xanthium strun	marium					20%	No	FAC	UPL species		x5 =		_
5									Column Totals:	180%	(A)	3.70	(B)
6													
7									Prevalen	ce Index = B/	A =	2.06	_
8													
9.													
10.									Hydrophytic Vegeta	tion Indicato	rs:		
11.													
12.									1-Rapid Tes	st for Hydroph	ytic Vegetatio	n	
13.									X 2-Dominanc	e Test is >50	%		
14.							·		<b>x</b> 3-Prevalenc	e Index is ≤3.	.0 <sup>1</sup>		
15.							·		4-Morpholog	gical Adaptatio	ons <sup>1</sup> (Provide	supporting	
16.									data in Ren	narks or on a	separate she	et)	
17.										c Hydrophytic			
18.							<u> </u>			• •	`	•	
19.									<sup>1</sup> Indicators of hydric s	oil and wetla	nd hydrology i	must	
20.									be present, unless di		-		
[						40%	= Total Cover		De processit, arricos di	DOG OF PIC			
						1070	, Star JOVGI						
Woody Vine Stratus	m (Plot size: 30' radiu	ıs)							Hydrophytic				
4	<u>ııı</u> (ı ı∪ı sı∠e. 30 tadıl												
'							<del></del>		Vegetation	W-	V N-		
2							<del></del>		Present?	Yes	X No	_	
							= Total Cover						
_	_												
Remarks: (Include	photo numbers here o	or on a separat	e sheet.)										

SOIL							Samp	ling Point: dp036
	cription: (Describe to th	e depth need				bsence of	f indicators.)	
Depth	Matrix			edox Features		2		
(inches)	Color (moist)	<u> </u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-20"	10YR 2/1	98	10YR 3/4	_ 2	C	PL	Loam	
							- <del> </del>	
		· <del></del>					<del></del>	
•	Concentration, D=Depletion	on, RM=Reduc	ed Matrix, CS=Cover	red or Coated	Sand Grains.	<sup>2</sup> Locati	on: PL=Pore Lining,	M=Matrix.
-	Indicators <sup>3</sup> :					Test	t Indicators of Hydri	
	ol (A1)			ed Matrix (S4	)			nese Masses (F12)
	Epipedon (A2)		Sandy Red	` '				v Dark Surface (F22)
	Histic (A3)		Stripped M				Other (Expla	in in Remarks)
	gen Sulfide (A4)		Dark Surfa					
	ed Layers (A5)			cky Mineral (F	•			
	Muck (A10)			yed Matrix (F2	2)			
Deplet	ted Below Dark Surface (A	A11)	Depleted M	latrix (F3)				
	Dark Surface (A12)		X Redox Dar	. ,			•	dicators have been updated to
	Mucky Mineral (S1)			ark Surface (F	<del>-</del> 7)		comply with the	e Field Indicators of Hydric Soils
5 cm N	Mucky Peat or Peat (S3)		Redox Dep	ressions (F8)			in the United S	tates, Version 8.0, 2016.
Type:	Layer (if observed):							
Depth (	(inches):					Hydric	Soil Present?	Yes X No
IYDROL								
_	drology Indicators:	e roquirod: cho	uck all that apply)				Socondary Indicat	ors (minimum of two required)
	icators (minimum of one is	s required. Che		ned Leaves /B	(O)			. ,
	ce Water (A1)			ned Leaves (B	) (E)		Surface Soil	
	Vater Table (A2)		Aquatic Fa				Drainage Pa	, ,
	ation (A3)			ic Plants (B14	•			Water Table (C2)
	Marks (B1)			Sulfide Odor (0	-	·- (CC)	Crayfish Bur	` '
	ent Deposits (B2)			hizospheres o	•	is (C3)		isible on Aerial Imagery (C9)
	eposits (B3)			of Reduced Iro				tressed Plants (D1)
	Mat or Crust (B4)			Reduction in	Tilled Soils (	C6)	X Geomorphic	
Iron D	eposits (B5)		Thin Muck	Surface (C7)			X FAC-Neutral	Test (D5)
Inunda	ation Visible on Aerial Ima	gery (B7)	Gauge or V	Vell Data (D9)				
Sparse	ely Vegetated Concave S	urface (B8)	Other (Exp	lain in Remark	(s)			
ield Obser		, , ,	V 5 11 (1 1	<b>&gt; &gt;1/4</b>				
		/esNo_		·				
Water Table		/esNo	- ' '	-			D 10	V V
Saturation F		res No_	X Depth (inche	s): N/A	Wetland	ı Hydrolog	gy Present?	Yes X No
	apillary fringe)	Inc. promited	undl periol of the	roulous ! :	otions\ 'f	iloh!		
Describe R	ecorded Data (stream gau	uge, monitoring	j weii, aeriai photos, į	nevious inspe	ections), if ava	ıllable:		
Remarks:							<del></del>	<del></del>

Site:	w012		Rater(s):	Mscenzie Reed	Date:	October 1, 2020
3	3	Metric 1. Wetland Area (size).	Project:	Pleasant Prairie Proj	ect	
max 6 pts.	subtotal	Select one size class and assign score.  >50 acres (>20.2ha) ( 6 pts)  25 to <50 acres (10.1 to <20.2ha) (5 pt  10 to <25 acres (4 to <10.1ha) (4 pts)  X 3 to <10 acres (1.2 to <4ha) (3 pts)  0.3 to <3 acres (0.12 to <1.2ha) (2 pts)  0.1 to <0.3 acres (0.04 to <0.12ha) (1 pts)  <0.1 acres (0.04ha) (0 pts)	s)	Theusaine Fragi		
1	4	Metric 2. Upland buffers and su	rrounding	land use.		
max 14 pts.	subtotal	2a. Calculate average buffer width. Select only of WIDE. Buffers average 50m (164ft) or MEDIUM. Buffers average 25m to <50 NARROW. Buffers average 10m to <25 X VERY NARROW. Buffers average <10m 2b. Intensity of surrounding land use. Select one VERY LOW. 2nd growth or older forest LOW. Old field (>10 years), shrubland, MODERATELY HIGH. Residential, fence X HIGH. Urban, industrial, open pasture	ne and assign s more around v Im (82 to <164f 5m (32ft to <82 or double che t, prairie, savan young second ed pasture, par	core. Do not double check vetland perimeter (7'; t) around wetland perimeter (ft) around wetland perimeter (di wetland perimeter (oi) ck and average nah, wildlife area, etc. (7) growth forest. (5) k, conservation tillage, new fa	(1)	
11	15	Metric 3. Hydrology				
max 30 pts.	subtotal	3a. Sources of Water. Score all that apply.  High pH groundwater (5)  Other groundwater (3)  X Precipitation (1)  Seasonal/Intermittent surface water (3)  Perennial surface water (lake or stream	n) (5)	Part of wetland Part of ripariar  3d. Duration inundation/sa	plain (1) m/lake and other hi d/upland (e.g. foresi or upland corridor turation. Score one	t), complex (1) (1) or dbl check
		3c. Maximum water depth. Select only one and >0.7 (27.6in) (3)  0.4 to 0.7m (15.7 to 27.6in) (2)  X <0.4m (<15.7in) (1)  3e. Modifications to natural hydrologic regime.  None or none apparent (12)  X Recovered (7)  Recovering (3)  Recent or no recovery (1)	-	Regularly inunction   X   Seasonally inunction   Seasonally saturable check and average   point source   filling/gradin   road bed/RR   dredging	(nonstormwater)	
15	30	Metric 4. Habitat Alteration and D	evelonmer	n+		<u> </u>
max 20 pts.	subtotal	4a. Substrate disturbance. Score one or double  X None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1)  4b. Habitat development. Select only one and a Excellent (7) Very good (6) X Good (5) Moderately good (4) Fair (3) Poor to fair (2)	check and aver			
	30	Poor (1)  4c. Habitat alteration. Score one or double chec None or none apparent (9) X Recovered (6) Recovering (3) Recent or no recovery (1) X	k and average.  call disturbance mowing grazing clearcutting selective cutt woody debris toxic pollutan	shrub/saplin herbaceous/ sedimentation dredging removal farming	aquatic bed remova on	al
			1			

Site:	w012		Rater(s):	Mscenzie Reed	Date:	October 1, 2020
	4		Project:	Pleasant Prairie Pro	oject	
	subtotal th	s page				
0	0	Metric 5. Special Wetlands				
max 10 pt	s subtotal	Check all that apply and score as indicated.  Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5)				
	T 1	Lake Erie coastal/tributary wetland- Lake Erie coastal/tributary wetland- Lake Plain Sand Prairies (Oak Openi Relict Wet Prairies (10) Known occurrence state/federal the Significant migratory songbird/wate Category 1 Wetland. See Question Not Applicable (0)	restricted hydrolo ngs) (10) reatened or endan er fowl habitat or u	gy (5) gered species (10) isage (10)		
4	4	Metric 6. Plant communities, int	erchercion n	nicrotonograhy		
max 20 nt	s subtotal	6a. Wetland Vegetation Communities.	•	ommunity Cover Scale		
110X 20 P	Subtotai	Score all present using 0 to 3 scale.	0		ses <0.1ha (0.2471 a	acres) contiguous area
		Aquatic bed Emergent 1 Shrub	1	vegetation a	er comprises small pa nd is of moderate qu art but is of low qual	uality, or comprises a
		1 Forest 1 Mudflats Open water	2	vegetation a		ant part of wetland's uality or comprises a smal
		Other	3			t, or more, of wetland's
		6b. Horizontal (plan view) Interspersion.		vegetation a	nd is of high quality	
		Select only one. High (5)	Narrative Dec	cription of Vegetation Quali	its	
		Moderately high (4) X Moderate (3)	low	Low spp diversity disturbance	and/or predominan tolerant native speci	ies
		Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add	mod	although nor can also be p moderately h		rbance tolerant native spp diversity moderate tc
		or deduct points for coverage  Extensive >75% cover (-5)  X Moderate 25-75% cover (-3)  Sparse 5-25% cover (-1)	high	A predominance of and/or disturble absent, and I	of native species, wi rbance tolerant nativ high spp diversity an	th nonnative spp ve spp absent or virtually id often, but no always, l, or endangered spp
		Nearly absent <5% cover (0) Absent (1)	Mudflat and (	Open Water Class Quality		
		6d. Microtopography.	0	Absent <0.1ha (0.	.247 acres)	
		Score all present using 0 to 3 scale.  Vegetated hummocks/tussocks	1	Present very smal	ll amounts or if more	e common
		Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh	2	Present in moder	ate amounts, but no small amounts of hig	=
		1 Amphibian breading pools	3	Present in moder and of higher	ate or greater amou st quality	nts
34 Refer to the I		I (max 100 pts)  M Score Calibration Report for the scoring breakpoints between	wetland categories at th	e following address: http://www.epa	a.state.oh.us/dsw/401/401	.html

Air Vegetation   N	Project/Site:	Pleasant Prairie							City/County:	Galloway/Fran	ıklin		Sampling Da	ate: 9/30/2	.020
The stands   The	Applicant/Owner:	Invenergy							State:	ОН	Sampling Point	:	dp039	9/W013	
State   1				Tacalana					<del></del>			nana): aa			
Solidation   Name Centre   market   Column   Communication   Solidation   Column			_	roesiope						LOC		vex, none). cc			44001
No. cytechnology concessions on the sink place and resistant of year's year (year) and the procession of the processio		-	Lat:_		:	39.9407			Long:		-83.2125				/116N
Now Companision   Now   1501   Now   1500	Soil Map Unit Name	Carlisle muck (Cc)										_NWI classific	cation: P	SS1C	
New Youngestion   No	Are climatic / hydro	logic conditions on th	e site typical	for this time of	year?				Yes _	X No	(If no, explain	in Remarks.)			
SUMMARY OF FINDINGS - Attach site map a howing sampling point locations, transects, important features, etc.   Hydrothylink (Spid) Present?   Yes   X   No   within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No   Wetla	Are Vegetation	N	, Soil	N	, or Hydrold	gy N	l signifi	cantly dis	turbed?	Are "Norr	nal Circumstances" pr	esent?	Yes	X No	
SUMMARY OF FINDINGS - Attach site map a howing sampling point locations, transects, important features, etc.   Hydrothylink (Spid) Present?   Yes   X   No   within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No     Within a Wetland?   Yes   X   No   Wetla	Are Vegetation		. Soil	N	or Hydrold	pav N	I natura	ally proble	matic?	(If needed	I. explain any answers	in Remarks.)	_		
Hydroclayor Voge   Yes   X   No   within a within a within   Yes   X   No   within   within   Yes   X   No   within   within   Within   Yes   X   No   within   within   Within   Within   Yes   X   No   within			_		_						, , ,	,			
Mydrodogy Present?   Yes   X   No     Wetland Mydrodogy Present?   Yes   X   No   Wetland Mydrodogy Present?   Yes   X   Wetland Mydrodogy Present   Yes   X   Wetlan				iap silowing				, IIII							
Ves   X   No	Hydrophytic Ve	getation Present?							-			.,			
Name of Contract State   Prevalence Index St									within	a Wetland	?	Yes X	No_		
No.   Contract   Con	wetiand Hydroi	ogy Present?			Yes	<u>x</u>	No		-						
No. Cover   Species   Sp		Use scientific	names of	plants.											
1. Salin ruge															
2 Proposition deflowers   30%   Yes   FAC   70%   70	·	sıze: 30' radius)									Dominance Test	worksheet:			
Seging/Smob Steatum (Pot size: 15' radius)															
Saming/Strutum (Phot size: 15 radius)	2. Populus deltoid	es						30%	Yes	FAC	Number of Domina	int Species			
Total Number of Dominant   Species Across All Strata:   S   (B)	<ol><li>Quercus palust</li></ol>	ris						20%	Yes	FACW	That Are OBL, FA	CW, or FAC:		5	(A)
Septime/Struck Stratum (Poet size: 15' radius)	4.														
Percent of Dominant Species   That Are OBL, FACW, or FAC: 100% (AB)	5.			•							Total Number of D	ominant			
1. Cephalanthus occidentalis   60%   Yes   OBL   That Are OBL, FACW, or FAC:   100%   (AB)								60%	= Total Cover		Species Across Al	Strata:		5	(B)
1. Cephalanthus occidentalis   60%   Yes   OBL   That Are OBL, FACW, or FAC:   100%   (AB)															_
1. Cephalaminus cocidentalis 60% Yes OBL 3. That Are OBL, FACW, or FAC: 100% (AB) 2. 3. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	Sapling/Shrub Strat	um (Plot size: 15' rad	dius)								Percent of Domina	nt Species			
2 3	Cephalanthus of	occidentalis	_					60%	Yes	OBL			10	00%	(A/B)
A											,	,			_``'
									·						
Solution									. ———		Provalence Index	workshoot:			
Multiply by: Report   Multiply by:									· ——	-	Frevalence muex	WOIKSHEEL.			
That Are OBL, FACW, or FAC:	5.														
Herb Stratum (Plot size: 5 radius)   10%   Yes   OBL   FACW species   85%   x1 =   0.85   FACW species   20%   x2 =   1.00   FACW species   20%   x3 =   0.90   FACW species   20%   x4 =   0.85   FACW species   20%   x4 =   0	1							60%	= Total Cover				N	fultiply by:	
1. Bidens cernua															A/B
2. Phalaris arundinacea 30% Yes FACW 55% No OBL FAC Species 30% x3 = 0.90 FAC Species x4 = UPL species x5 = Column Totals: 165% (A) 2.75 (B) FAC S	·	size: 5' radius)			_						· ·				
Sephmeria cylindrica   5%   No   OBL   FACU species   x4 =											1		x2 =		
4											· ·	30%	x3 =	0.90	
Column Totals:   165%   (A)   2.75   (B)	3. Boehmeria cylir	ndrica						5%	No	OBL	FACU species		x4 =		
6. 7. Prevalence Index = B/A = 1.67  8. 9. Hydrophytic Vegetation Indicators:  10. Hydrophytic Vegetation Indicators:  1 -Rapid Test for Hydrophytic Vegetation  X 2-Dominance Test is >50% X 3-Prevalence Index is \$5.0.\ 4. Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)  18. Hydrophytic Vegetation (Explain)  19. Hindicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Woody Vine Stratum (Plot size: 30' radius)  1. Hydrophytic Vegetation Present? Yes X No  Present? Yes X No	4										UPL species		x5 =		
7.	5.										Column Totals:	165%	(A)	2.75	(B)
8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	6.														
9.	7.										Prevale	nce Index = B/	A =	1.67	
9.	8.								·						
Hydrophytic Vegetation Indicators:    Hydrophytic Vegetation Indicators:   1-Rapid Test for Hydrophytic Vegetation									. ———						
11.									· ——	-	Hydronhytic Veg	tation Indica	tors.		
13.	11								· <del></del>		nyaropnyao veg	station maioa	1010.		
13.	40								. ——		4 D	4	L. 4:- \ /4.	_4:	
14.									· ——					auon	
4-Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  1s.  1g.  20.  45% = Total Cover  Woody Vine Stratum (Plot size: 30' radius)  1.  2. = Total Cover  4-Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation Present? Yes X No									· <del></del>						
data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain)  18.  19.  20.  45% = Total Cover  Woody Vine Stratum (Plot size: 30' radius)  1.  2. = Total Cover  ata in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation Present? Yes X No  Present? Yes X No									<del></del>						
Problematic Hydrophytic Vegetation (Explain)											<u> </u>	•	•		ting
18.	16												•		
19	17										Problema	itic Hydrophytic	c Vegetation	า <sup>1</sup> (Explain)	)
20.	18.														
	19.										<sup>1</sup> Indicators of hydri	c soil and wetla	and hydrolog	gy must	
	20.										be present, unless	disturbed or p	roblematic.		
Woody Vine Stratum (Plot size: 30' radius)								45%	= Total Cover			·			
1															
1	Woody Vine Stratu	n (Plot size: 30' radi	ue)								Hydrophytic				
2	-	ii (Flot size. 30 faui	<u> </u>												
= Total Cover									· <del></del>		-				
	Z										Present?	Yes	<u>x</u> No_	_	
Remarks: (Include photo numbers here or on a separate sheet.)									= Total Cover						
Remarks: (Include photo numbers here or on a separate sheet.)															
	Remarks: (Include	photo numbers here	or on a sepa	rate sheet.)											

SOIL	Sampling Point:	dp039

Depth	Matrix	are aepui neede		edox Features		DOGIICE O	u.cators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-20"	10YR 4/1	95	10YR 4/6	5	С	М	Silt Loam	
							· <del></del> ·	
							· <del></del> ·	
							· <del></del> ·	
	oncentration, D=Deplet	ion, RM=Reduce	d Matrix, CS=Cover	ed or Coated S	Sand Grains.	<sup>2</sup> Locati	on: PL=Pore Lining	, M=Matrix.
Hydric Soil I						Test	Indicators of Hydr	
Histoso	` ,			red Matrix (S4)	)			anese Masses (F12)
	Epipedon (A2)		Sandy Red	, ,				ow Dark Surface (F22)
	listic (A3) en Sulfide (A4)		Stripped Mark Surface	• •			Other (Exp	lain in Remarks)
	ed Layers (A5)			cky Mineral (F	1)			
	luck (A10)			ed Matrix (F2	•			
Deplete	ed Below Dark Surface	(A11)	X Depleted M	atrix (F3)	,			
	ark Surface (A12)			Surface (F6)			<sup>3</sup> The hydric soil ir	ndicators have been updated to
Sandy	Mucky Mineral (S1)			ark Surface (F	7)		comply with th	ne Field Indicators of Hydric Soils
5 cm M	ucky Peat or Peat (S3)		X Redox Dep	ressions (F8)			in the United S	States , Version 8.0, 2016.
Restrictive L	ayer (if observed):							
Type:								
Depth (i	nches):					Hydric	Soil Present?	Yes X No
Remarks:								
HYDROL	OGY							
-	drology Indicators:							
	cators (minimum of one	is required: chec		/5	•			ators (minimum of two required)
	e Water (A1)			ned Leaves (B	9)			il Cracks (B6)
	ater Table (A2)		Aquatic Fa	. ,	`			Patterns (B10)
X Saturat	ion (A3) Marks (B1)			ic Plants (B14) Sulfide Odor (C			Crayfish Bu	n Water Table (C2)
	ent Deposits (B2)			hizospheres o	•	s (C3)		Visible on Aerial Imagery (C9)
	eposits (B3)			f Reduced Iro	•	- ()		Stressed Plants (D1)
	lat or Crust (B4)		Recent Iror	Reduction in	Tilled Soils (C	26)	X Geomorphi	ic Position (D2)
Iron De	posits (B5)		Thin Muck	Surface (C7)			X FAC-Neutra	al Test (D5)
Inundat	tion Visible on Aerial Im	agery (B7)	Gauge or V	Vell Data (D9)				
Sparse	ly Vegetated Concave S	Surface (B8)	Other (Exp	ain in Remark	s)			
Field Observ	vations:							
Surface Wat	er Present?	Yes No No	C Depth (inche	s): N/A				
Water Table	Present?	Yes No No	C Depth (inche	s): >18"				
Saturation P		Yes X No	Depth (inche	s): surface	Wetland	Hydrolo	gy Present?	Yes X No
(includes cap	·							
Describe Re	corded Data (stream ga	auge, monitoring	well, aerial photos, p	revious inspe	ctions), if avai	lable:		
Remarks:								

Site:	w013		Rater(s):	BRH	Date:	September 30, 2020
2 max 6 pts.	2 subtotal	Metric 1. Wetland Area (size).  Select one size class and assign score.  >50 acres (>20.2ha) (6 pts)  25 to <50 acres (10.1 to <20.2ha) (5 pt)  10 to <25 acres (4 to <10.1ha) (4 pts)  3 to <10 acres (1.2 to <4ha) (3 pts)  X 0.3 to <3 acres (0.12 to <1.2ha) (2 pts)  0.1 to <0.3 acres (0.04 to <0.12ha) (1  <0.1 acres (0.04ha) (0 pts)	)	Pleasant Prairi	ie	
1	3	Metric 2. Upland buffers and su	_		ah a ah	
max 14 pts.	. subtotal	2a. Calculate average buffer width. Select only of WIDE. Buffers average 50m (164ft) of MEDIUM. Buffers average 25m to <50 NARROW. Buffers average 10m to <2 X VERY NARROW. Buffers average <10r 2b. Intensity of surrounding land use. Select on VERY LOW. 2nd growth or older fores LOW. Old field (>10 years), shrubland MODERATELY HIGH. Residential, fend X HIGH. Urban, industrial, open pasture	r more around v 0m (82 to <164f 5m (32ft to <82 m (<32ft) around ne or double che st, prairie, savand d, young second ced pasture, par	vetland perimeter (7) t) around wetland per ft) around wetland per d wetland perimeter ( ck and average nah, wildlife area, etc growth forest. (5) k, conservation tillage	rimeter (4) erimeter (1) 0) c. (7) e. new fallow field. (3	
18	21	Metric 3. Hydrology				
max 30 pts.	subtotal	3a. Sources of Water. Score all that apply.  High pH groundwater (5)  Other groundwater (3)  X Precipitation (1)  Seasonal/Intermittent surface water ( Perennial surface water (lake or strea  3c. Maximum water depth. Select only one and  >0.7 (27.6in) (3)  0.4 to 0.7m (15.7 to 27.6in) (2)  X <0.4m (<15.7in) (1)  3e. Modifications to natural hydrologic regime.  X None or none apparent (12)  Recovered (7)  Recovering (3)  Recent or no recovery (1)	m) (5) d assign score.	Betwee Part of	ear floodplain (1) en stream/lake and othe f wetland/upland (e.g. fo f riparian or upland corri ation/saturation. Score of to permanently inundate arly inundated/saturated nally inundated (2) nally saturated in upper 3 age at source (nonstormwate g/grading I bed/RR track dging	rest), complex (1) dor (1) one or dbl check ed/saturated (4) (3) BOCM (12in) (1)
18	39	Metric 4. Habitat Alteration and D	Developmer	nt.		
max 20 pts.		4a. Substrate disturbance. Score one or double  X None or none apparent (4)  Recovered (3)  Recovering (2)  Recent or no recovery (1)  4b. Habitat development. Select only one and a Excellent (7)  Very good (6)  X Good (5)  Moderately good (4)  Fair (3)  Poor to fair (2)  Poor (1)  4c. Habitat alteration. Score one or double che  X None or none apparent (9)  Recovered (6)  Recovering (3)  Recent or no recovery (1)	ck and average k all disturbance mowing grazing clearcutting	es observed shru herb sedi	b/sapling removal baceous/aquatic bed rem	noval
	39 subtotal this pag	e	selective cutt woody debris toxic pollutan	removal farm	lging ning ient enrichment	

DRAM v 5.0 Field Form	Quantitative	Rating
-----------------------	--------------	--------

Site:	w013		Rater(s):	BRH	Date:	September 30, 202
	7		Site:	Pleasant Prairie		
	subtotal th	is page				
		Metric 5. Special Wetlands				
max 10 n	ts subtotal	Check all that apply and score as indicated.				
116A 10 P	ac subtotal	Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetland Lake Erie coastal/tributary wetland Lake Plain Sand Prairies (Oak Open Relict Wet Prairies (10) Known occurrence state/federal th	I-restricted hydrolog ings) (10) preatened or endang	gy (5) gered species (10)		
		Significant migratory songbird/wat		= : :		
		Category 1 Wetland. See Question	1 Qualitative Ratin	g (-10)		
	1	Not Applicable (0)				
7	7	Metric 6. Plant communities, in	tersnersion m	nicrotonograhy		
max 20 n	ts subtotal	6a. Wetland Vegetation Communities.	•	mmunity Cover Scale		
		The state of the s	- Spetation Co			
		Score all present using 0 to 3 scale.	0	Absent or comprise	es <0.1ha (0.247	1 acres) contiguous area
		Aquatic bed		Present and either	comprises smal	part of wetland's
		Aquatic bed 1 Emergent	1	Present and either vegetation and	comprises smal d is of moderate	l part of wetland's e quality, or comprises a
		Aquatic bed 1 Emergent 2 Shrub		Present and either vegetation an significant par	comprises smal d is of moderate rt but is of low q	l part of wetland's e quality, or comprises a uality
		Aquatic bed 1 Emergent 2 Shrub 1 Forest	1	Present and either vegetation an significant par Present and either	comprises smal d is of moderate rt but is of low q comprises signi	I part of wetland's equality, or comprises a uality ficant part of wetland's
		Aquatic bed  Emergent  Shrub  Forest Mudflats		Present and either vegetation an significant par Present and either vegetation an	comprises smal d is of moderate t but is of low q comprises signi d is of moderate	l part of wetland's e quality, or comprises a uality
		Aquatic bed 1 Emergent 2 Shrub 1 Forest	2	Present and either vegetation an significant par Present and either vegetation an part and is of	comprises smal d is of moderate t but is of low q comprises signi d is of moderate high quality	I part of wetland's equality, or comprises a uality ficant part of wetland's
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water	1	Present and either vegetation an significant par Present and either vegetation an part and is of Present and compr	comprises smal d is of moderate t but is of low q comprises signi d is of moderate high quality	I part of wetland's quality, or comprises a uality ficant part of wetland's quality or comprises a smal part, or more, of wetland's
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.	2	Present and either vegetation an- significant par Present and either vegetation an- part and is of Present and compr vegetation an-	comprises smal d is of moderate t but is of low q comprises signi d is of moderate high quality rises significant I d is of high qual	I part of wetland's quality, or comprises a uality ficant part of wetland's quality or comprises a smal part, or more, of wetland's
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.  High (5)	2	Present and either vegetation an significant par Present and either vegetation an part and is of Present and compr vegetation an	comprises smal d is of moderate t but is of low q comprises signi d is of moderate high quality rises significant p d is of high qual	I part of wetland's e quality, or comprises a uality ficant part of wetland's e quality or comprises a smal part, or more, of wetland's
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.  High (5)  Moderately high (4)	2	Present and either vegetation an- significant par Present and either vegetation an- part and is of Present and compr vegetation an-	comprises smal d is of moderate t but is of low q comprises signi d is of moderate high quality rises significant I d is of high qual	I part of wetland's e quality, or comprises a uality ficant part of wetland's e quality or comprises a smal part, or more, of wetland's ity
		Aquatic bed Emergent Shrub Forest Mudflats Open water Other 6b. Horizontal (plan view) Interspersion. Select only one. High (5) Moderately high (4) X Moderate (3)	1 2 3 Narrative Desc	Present and either vegetation an- significant par Present and either vegetation an- part and is of Present and compr vegetation an- cription of Vegetation Quality Low spp diversity a disturbance to	comprises smal d is of moderate t but is of low q comprises signi d is of moderate high quality rises significant I d is of high qual	I part of wetland's e quality, or comprises a uality ficant part of wetland's e quality or comprises a smal part, or more, of wetland's ity  nance of nonnative or lecies
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.  High (5)  Moderately high (4)	1 2 3 Narrative Desc	Present and either vegetation and significant par Present and either vegetation and part and is of Present and compriment vegetation and compriment of Vegetation Quality Low spp diversity and disturbance to Native spp are don	comprises smal d is of moderate tout is of low q comprises signid is of moderate high quality rises significant q d is of high qual y and/or predomir plerant native spninant compone	I part of wetland's e quality, or comprises a uality ficant part of wetland's e quality or comprises a smal part, or more, of wetland's ity
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.  High (5)  Moderately high (4)  X Moderately low (2)	1 2 3 Narrative Desc	Present and either vegetation an significant par Present and either vegetation an part and is of Present and compr vegetation an cription of Vegetation Quality Low spp diversity a disturbance to Native spp are don although nonr	comprises smal d is of moderate tout is of low q comprises signid is of moderate high quality rises significant q d is of high qual y and/or predomir plerant native spininant componenative and/or discompless and/or discompless and/or discomposition of the second secon	I part of wetland's e quality, or comprises a uality ficant part of wetland's e quality or comprises a smal part, or more, of wetland's ity nance of nonnative or secies nt of the vegetation,
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.  High (5)  Moderately high (4)  X Moderate (3)  Moderately low (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer	1 2 3 Narrative Desc	Present and either vegetation an- significant par Present and either vegetation an- part and is of Present and compr vegetation an- cription of Vegetation Quality Low spp diversity a disturbance to Native spp are don although nonr can also be pr moderately hi	comprises smal d is of moderate to but is of low q comprises signid is of moderate high quality rises significant a d is of high quality of the second of th	I part of wetland's equality, or comprises a uality ficant part of wetland's equality or comprises a smal part, or more, of wetland's ity  nance of nonnative or necies nt of the vegetation, sturbance tolerant native spr es diversity moderate tc y w/o presence of rare
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.  High (5)  Moderately high (4)  X Moderate (3)  Moderately low (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add	1 2 3 Narrative Desc	Present and either vegetation an- significant par Present and either vegetation an- part and is of Present and compr vegetation an- cription of Vegetation Quality Low spp diversity a disturbance to Native spp are don although nonr can also be pr moderately hi threatened or	comprises smal d is of moderate to the tis of low q comprises signid is of moderate high quality rises significant in d is of high quality of the time of time	I part of wetland's quality, or comprises a uality ficant part of wetland's quality or comprises a smal part, or more, of wetland's ity  nance of nonnative or necies nt of the vegetation, sturbance tolerant native spr ness diversity moderate to y w/o presence of rare
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.  High (5)  Moderately high (4)  X Moderate (3)  Moderately low (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer	1 2 3 Narrative Desc	Present and either vegetation an- significant par Present and either vegetation an- part and is of Present and compr vegetation an- cription of Vegetation Quality Low spp diversity a disturbance to Native spp are don although non- can also be pr moderately hi threatened or A predominance of and/or disturts absent, and hi	comprises smal d is of moderate to but is of low q comprises signid is of moderate high quality rises significant I d is of high quality rises significant componentive and/or direction of the componentive and/or direction of the componentive significant is of the componential in the componential in the componential is of the componential in	I part of wetland's equality, or comprises a uality ficant part of wetland's equality or comprises a smal part, or more, of wetland's ity  nance of nonnative or necies nt of the vegetation, sturbance tolerant native spr es diversity moderate tc y w/o presence of rare
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.  High (5)  Moderately high (4)  X Moderate (3)  Moderately low (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)	2 3 Narrative Desc	Present and either vegetation an- significant par Present and either vegetation an- part and is of Present and compr vegetation an- cription of Vegetation Quality Low spp diversity a disturbance to Native spp are don although non- can also be pr moderately hi threatened or A predominance of and/or disturts absent, and hi	comprises smal d is of moderate to but is of low q comprises signid is of moderate high quality rises significant I d is of high quality rises significant componentive and/or direction of the componentive and/or direction of the componentive significant is of the componential in the componential in the componential is of the componential in	I part of wetland's equality, or comprises a uality ficant part of wetland's equality or comprises a small part, or more, of wetland's fity  mance of nonnative or secies nt of the vegetation, sturbance tolerant native spr es diversity moderate to y w/o presence of rare o with nonnative spp ative spp absent or virtually and often, but no always,
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.  High (5)  Moderately high (4)  X Moderately low (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer  to Table 1 ORAM long form for list. Add  or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-1)  Nearly absent <5% cover (0)  Absent (1)	1 2 3 Narrative Desc low mod high	Present and either vegetation an significant par Present and either vegetation an part and is of Present and compr vegetation an cription of Vegetation Quality Low spp diversity a disturbance to Native spp are don although non can also be pr moderately hi threatened or A predominance of and/or disturt absent, and hi the presence of	comprises smal d is of moderate to but is of low q comprises signid is of moderate high quality rises significant q d is of high qual d is of high qual y and/or predomir olerant native spininant componenative and/or diresent, and specigh, but generall endangered spif native species, ance tolerant nigh spp diversity of rare, threater	I part of wetland's equality, or comprises a uality ficant part of wetland's equality or comprises a small part, or more, of wetland's fity  mance of nonnative or secies nt of the vegetation, sturbance tolerant native spr es diversity moderate tc y w/o presence of rare o with nonnative spp ative spp absent or virtually and often, but no always,
		Aquatic bed Emergent Shrub Forest Mudflats Open water Other 6b. Horizontal (plan view) Interspersion. Select only one. High (5) Moderately high (4) X Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography.	2 3 Narrative Desc	Present and either vegetation an- significant par Present and either vegetation an- part and is of Present and compr vegetation an- cription of Vegetation Quality Low spp diversity a disturbance to Native spp are don although non- can also be pr moderately hi threatened or A predominance of and/or disturb absent, and hi the presence of	comprises smal d is of moderate to the tis of low q comprises signid is of moderate high quality rises significant q d is of high quality rises significant q d is of high quality and/or predomir olerant native spiniant componenative and/or diresent, and specified, but generall endangered spin fative species, pance tolerant n igh spp diversity of rare, threater	I part of wetland's equality, or comprises a uality ficant part of wetland's equality or comprises a smal part, or more, of wetland's ity  mance of nonnative or necies nt of the vegetation, sturbance tolerant native spr es diversity moderate to y w/o presence of rare o with nonnative spp ative spp absent or virtually and often, but no always, ned, or endangered spp
		Aquatic bed Emergent Shrub Forest Mudflats Open water Other 6b. Horizontal (plan view) Interspersion. Select only one. High (5) Moderately high (4) X Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale.	1 2 3 Narrative Desc low mod high	Present and either vegetation ansignificant par Present and either vegetation anpart and is of Present and compresent compression and compresent compression and c	comprises smal d is of moderate to but is of low q comprises signid is of moderate high quality rises significant q d is of high quality rises significant q d is of high qual y and/or predomir olerant native spiniant componenative and/or diresent, and specific photographic produced spin finative special, but generall endangered spin finative specials, but generall in the spiniant componenative and/or directly and specific photographic spiniant componenative and/or directly and specification in the spiniant componenative and specification in the spiniant component component in the spi	I part of wetland's equality, or comprises a uality ficant part of wetland's equality or comprises a smal part, or more, of wetland's ity  mance of nonnative or necies nt of the vegetation, sturbance tolerant native spr es diversity moderate to y w/o presence of rare o with nonnative spp ative spp absent or virtually and often, but no always, ned, or endangered spp
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.  High (5)  Moderately high (4)  X Moderately low (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer  to Table 1 ORAM long form for list. Add  or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-1)  X Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummocks/tussocks	1 2 3 Narrative Describer Income Inco	Present and either vegetation an- significant par Present and either vegetation an- part and is of Present and compr vegetation an- cription of Vegetation Quality Low spp diversity a disturbance to Native spp are don although non- can also be pr moderately hi threatened or A predominance of and/or disturt absent, and hi the presence of Open Water Class Quality Absent <0.1ha (0.2 Present very small of marginal qu	comprises smal d is of moderate to but is of low q comprises signi d is of moderate high quality rises significant q d is of high quality rises significant q d is of high quality of manufacture and/or disesent, and specified, but generall endangered specified, but generall endangered specified, and specified produced to be a specified of the species, bance tolerant n igh spp diversity of rare, threater amounts or if mutility	I part of wetland's equality, or comprises a uality ficant part of wetland's equality or comprises a smal part, or more, of wetland's extraction of the vegetation, sturbance tolerant native spr es diversity moderate to y w/o presence of rare outline with nonnative spp ative spp absent or virtually and often, but no always, and, or endangered spp
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.  High (5)  Moderately high (4)  X Moderately low (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer  to Table 1 ORAM long form for list. Add  or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-3)  X Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummocks/tussocks  Coarse woody debris >15cm (6in)	1 2 3 Narrative Describer Income Inco	Present and either vegetation an- significant par Present and either vegetation an- part and is of Present and compr vegetation an- cription of Vegetation Quality Low spp diversity a disturbance to Native spp are don although none can also be pr moderately hi threatened or A predominance of and/or disturt absent, and hi the presence of  Open Water Class Quality Absent <0.1ha (0.2 Present very small of marginal que Present in moderation	comprises smal d is of moderate to but is of low q comprises signi d is of moderate high quality rises significant p d is of high quality rises significant p d is of high quality rolerant native spininant componenative and/or directly and specified point of the property of the property of rative species, pance tolerant n igh spp diversity of rare, threater amounts or if muality te amounts, but	I part of wetland's equality, or comprises a uality ficant part of wetland's equality or comprises a smale part, or more, of wetland's extraction of the vegetation, sturbance tolerant native spr es diversity moderate to y w/o presence of rare o with nonnative spp ative spp absent or virtually and often, but no always, ed, or endangered spp  ore common not of highest
		Aquatic bed  Emergent  Shrub  Forest  Mudflats  Open water  Other  6b. Horizontal (plan view) Interspersion.  Select only one.  High (5)  Moderately high (4)  X Moderately low (2)  Low (1)  None (0)  6c. Coverage of invasive plants. Refer  to Table 1 ORAM long form for list. Add  or deduct points for coverage  Extensive >75% cover (-5)  Moderate 25-75% cover (-1)  X Sparse 5-25% cover (-1)  Nearly absent <5% cover (0)  Absent (1)  6d. Microtopography.  Score all present using 0 to 3 scale.  Vegetated hummocks/tussocks	1 2 3 Narrative Describer Income Inco	Present and either vegetation an- significant par Present and either vegetation an- part and is of Present and compr vegetation an- cription of Vegetation Quality Low spp diversity a disturbance to Native spp are don although none can also be pr moderately hi threatened or A predominance of and/or disturt absent, and hi the presence of  Open Water Class Quality Absent <0.1ha (0.2 Present very small of marginal que Present in moderation	comprises smal d is of moderate to but is of low q comprises signi d is of moderate high quality rises significant p d is of high quality rises significant p d is of high quality rolerant native spininant componenative and/or directly and specified point of the property of rative species, bance tolerant n igh spp diversity of rare, threater amounts or if muality te amounts, but mall amounts of	I part of wetland's quality, or comprises a uality ficant part of wetland's quality or comprises a smale part, or more, of wetland's ity mance of nonnative or necies nt of the vegetation, sturbance tolerant native spr ses diversity moderate to y w/o presence of rare with nonnative spp ative spp absent or virtually and often, but no always, ned, or endangered spp  ore common not of highest highest quality

46 Grand Total (max 100 pts)

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

Comments:

Project/Site:	Pleasant Prairie				City/County:	: Galloway/Fran	Sampling Date: 9/30/2020
Applicant/Owner:	Invenergy				State:	: <u>OH</u>	Sampling Point: dp040/w014
Investigator(s):	B Hess					Section, Townsh	nip, Range: NA
Landform (hillslope	, terrace, etc.):	Backslope				Loca	al relief (concave, convex, none): concave
Slope (%):	1%	Lat:	39.9406		Long:		-83.2061 Datum: NAD83 UTM16N
Soil Map Unit Name	e:Lewisburg-Crosby complex	, 2 to 6 percent slope	s (LeB)				NWI classification: PFO1C
Are climatic / hydro	logic conditions on the site ty	pical for this time of y	ear?		Yes	X No	(If no, explain in Remarks.)
Are Vegetation	N , Soil	N	, or Hydrology	N significantly dis	turbed?	Are "Norn	nal Circumstances" present? Yes X No
Are Vegetation	N , Soil	N	, or Hydrology	N naturally proble	matic?	(If needed	d, explain any answers in Remarks.)
	FINDINGS Attach s	ite map showing					
	getation Present?	<u></u>	Yes X	No		Sampled A	
Hydric Soil Pres			Yes X	No		a Wetland	
Wetland Hydrol			Yes X	No	•		
Remarks:					•		
ixemarks.							
VEGETATION	Use scientific name	e of plants					
TEGETATION.	Coo colonamo namo	or planto.		Absolute	Dominant	Indicator	
Tree Stratum (Plot	size: 30' radius)			% Cover	Species?	Status	Dominance Test worksheet:
Celtis occidenta	alis			10%	No	FAC	
2. Populus deltoid	les			20%	Yes	FAC	Number of Dominant Species
3. Acer saccharin	um			40%	Yes	FACW	That Are OBL, FACW, or FAC: 5 (A)
4.							
5.							Total Number of Dominant
				70%	= Total Cover		Species Across All Strata: 5 (B)
Sapling/Shrub Stra	tum (Plot size: 15' radius)						Percent of Dominant Species
1. Cephalanthus	occidentalis			30%	Yes	OBL	That Are OBL, FACW, or FAC: 100% (A/B)
2							
3							
4							Prevalence Index worksheet:
5.							
				30%	= Total Cover		Total % Cover of: Multiply by:
							That Are OBL, FACW, or FAC: A/B
Herb Stratum (Plot			-				OBL species 40% x1 = 0.40
Bidens frondos				5%	Yes	FACW	FACW species 45% x2 = 0.90
2. Leersia oryzoio	les			10%	Yes	OBL	FAC species 30% x3 = 0.90
3					· <del></del> -		FACU species x4 =
4					· ——		UPL species x5 =
5					· ——	-	Column Totals: 115% (A) 2.20 (B)
6. 7.					<del></del>		Prevalence Index = B/A = 1.91
8.				<del></del>	. ———		Frevalence index – B/A – 1.51
9.				<del></del>			
10.					· <del></del>		Hydrophytic Vegetation Indicators:
11				<del></del>			Tryurophytic vegetation indicators.
12.					· ——		1-Rapid Test for Hydrophytic Vegetation
13.					<del></del>	-	X 2-Dominance Test is >50%
14.					<del></del>	-	x 3-Prevalence Index is ≤3.0 <sup>1</sup>
15.							4-Morphological Adaptations <sup>1</sup> (Provide supporting
16.							data in Remarks or on a separate sheet)
17.					·		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
18.							
19.					• •		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
20.					·		be present, unless disturbed or problematic.
				15%	= Total Cover		
Woody Vine Stratu	m (Plot size: 30' radius)						Hydrophytic
1.							Vegetation
2.							Present? Yes X No
					= Total Cover		
					- 		
Remarks: (Include	photo numbers here or on a	separate sheet.)					
1							

SOIL	Sampling Point:	dp040

Profile Description: (Describe to the depth needed	I to document the in	ndicator or co	onfirm the a	bsence o	f indicators.)	
Depth Matrix		dox Features	<del>-</del> 1	. 1		
(inches) Color (moist) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-20" 10YR 4/2 95	10YR 4/4	5	C	М	Silt Loam	
						_
					<u> </u>	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced	Matrix, CS=Covere	d or Coated S	and Grains.	<sup>2</sup> Locati	on: PL=Pore Lining	, M=Matrix.
Hydric Soil Indicators <sup>3</sup> :				Test	Indicators of Hydr	ric Soils:
Histosol (A1)	Sandy Gleye	ed Matrix (S4)			Iron-Manga	nese Masses (F12)
Histic Epipedon (A2)	Sandy Redo					ow Dark Surface (F22)
Black Histic (A3)	Stripped Mat	, ,			Other (Expl	lain in Remarks)
Hydrogen Sulfide (A4)	Dark Surface	` ,				
Stratified Layers (A5)		y Mineral (F1				
2 cm Muck (A10)		ed Matrix (F2)				
Depleted Below Dark Surface (A11)	X Depleted Ma				3	. diameter a bassa ha an sun dete d
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark	rk Surface (F6)	7)		•	ndicators have been updated to ne Field Indicators of Hydric Soils
5 cm Mucky Peat or Peat (S3)	X Redox Depre		' )			States, Version 8.0, 2016.
	- X Redox Depre	23310113 (1 0)			in the office of	518163, Version 6.0, 2010.
Restrictive Layer (if observed):						
Type:				I beeded a	0 - 11 D 40	V V N-
Depth (inches):				Hyaric	Soil Present?	Yes X No
Remarks:						
LIVEROLOGY						
Wetland Hydrology Indicators:	a lil ili ad a sa a la d				Jo	
Primary Indicators (minimum of one is required: check		ad Lagyes (PG				ators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1)	Water-Staine	ed Leaves (B9	9)		Surface So	il Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1) High Water Table (A2)	Water-Staine Aquatic Fau	na (B13)	,		Surface So Drainage P	il Cracks (B6) latterns (B10)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check  Surface Water (A1)  High Water Table (A2)  X Saturation (A3)	Water-Staine Aquatic Faul True Aquatic	na (B13) : Plants (B14)	•		Surface So Drainage P Dry-Seasor	il Cracks (B6) latterns (B10) n Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1)	Water-Staine Aquatic Faul True Aquatic Hydrogen St	na (B13) : Plants (B14) ulfide Odor (C	1)	2(C3)	Surface So Drainage P Dry-Seasor Crayfish Bu	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Staine Aquatic Faul True Aquatic Hydrogen St	na (B13) Plants (B14) ulfide Odor (C izospheres on	1) n Living Roots	s (C3)	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation	il Cracks (B6) latterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: checked Surface Water (A1)  High Water Table (A2)  X Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Staine Aquatic Faul True Aquatic Hydrogen St Oxidized Rh	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron	1) 1 Living Roots 1 (C4)	,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or	il Cracks (B6) latterns (B10) n Water Table (C2) lirrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Staine Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron	na (B13)  Plants (B14)  Ilfide Odor (C  izospheres on  Reduced Iron  Reduction in -	1) 1 Living Roots 1 (C4)	,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1)  High Water Table (A2)  X Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) Plants (B14) Ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7)	1) 1 Living Roots 1 (C4)	,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1)  High Water Table (A2)  X Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	na (B13)  Plants (B14)  Iffide Odor (C  izospheres on  Reduced Iron  Reduction in  urface (C7)  ell Data (D9)	1) I Living Roots I (C4) Filled Soils (C	,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1)  High Water Table (A2)  X Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	na (B13) Plants (B14) Ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7)	1) I Living Roots I (C4) Filled Soils (C	,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1)  High Water Table (A2)  X Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:	Water-Staine Aquatic Faui True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or Wo	na (B13)  Plants (B14)  Ilfide Odor (C izospheres on Reduced Iron Reduction in  urface (C7)  Ell Data (D9)  in in Remarks	1) I Living Roots I (C4) Filled Soils (C	,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1)  High Water Table (A2)  X Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Yes No X	Water-Staine Aquatic Faui True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or Wo Other (Expla	na (B13)  Plants (B14)  Iffide Odor (C izospheres on Reduced Iron Reduction in  urface (C7)  Ell Data (D9)  in in Remarks  ):  N/A	1) I Living Roots I (C4) Filled Soils (C	,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1)  High Water Table (A2)  X Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present? Yes No X  Water Table Present? Yes No X	Water-Staine Aquatic Faui True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or Wo Other (Expla	na (B13)  Plants (B14)  Iffide Odor (C izospheres on Reduced Iron Reduction in urface (C7)  Iffile Data (D9)  In in Remarks    N/A	1) Living Roots (C4) Filled Soils (C	c6)	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) latterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) In Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1)  High Water Table (A2)  X Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No X  Saturation Present?  Yes X No	Water-Staine Aquatic Faui True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or Wo Other (Expla	na (B13)  Plants (B14)  Iffide Odor (C izospheres on Reduced Iron Reduction in urface (C7)  Iffile Data (D9)  In in Remarks    N/A	1) Living Roots (C4) Filled Soils (C	c6)	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No X Water Table Present? Yes No X Saturation Present? Yes X No (includes capillary fringe)	Water-Staine Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or Wo Other (Expla	na (B13) Plants (B14) Ifide Odor (C Izospheres on Reduced Iron Reduction in urface (C7) In in Remarks    N/A	1) Living Roots (C4) Filled Soils (C	Hydrolo	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) latterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) In Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No X Water Table Present? Yes X No	Water-Staine Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or Wo Other (Expla	na (B13) Plants (B14) Ifide Odor (C Izospheres on Reduced Iron Reduction in urface (C7) In in Remarks    N/A	1) Living Roots (C4) Filled Soils (C	Hydrolo	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) latterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) In Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No X Water Table Present? Yes No X Saturation Present? Yes X No (includes capillary fringe)	Water-Staine Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or Wo Other (Expla	na (B13) Plants (B14) Ifide Odor (C Izospheres on Reduced Iron Reduction in urface (C7) In in Remarks    N/A	1) Living Roots (C4) Filled Soils (C	Hydrolo	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) latterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) In Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No X Water Table Present? Yes No X Saturation Present? Yes X No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring water No	Water-Staine Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or Wo Other (Expla	na (B13) Plants (B14) Ifide Odor (C Izospheres on Reduced Iron Reduction in urface (C7) In in Remarks    N/A	1) Living Roots (C4) Filled Soils (C	Hydrolo	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) latterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) In Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No X Water Table Present? Yes No X Saturation Present? Yes X No (includes capillary fringe)	Water-Staine Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or Wo Other (Expla	na (B13) Plants (B14) Ifide Odor (C Izospheres on Reduced Iron Reduction in urface (C7) In in Remarks    N/A	1) Living Roots (C4) Filled Soils (C	Hydrolo	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) latterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) In Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No X Water Table Present? Yes No X Saturation Present? Yes X No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring water No	Water-Staine Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or Wo Other (Expla	na (B13) Plants (B14) Ifide Odor (C Izospheres on Reduced Iron Reduction in urface (C7) In in Remarks    N/A	1) Living Roots (C4) Filled Soils (C	Hydrolo	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) latterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) In Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No X Water Table Present? Yes No X Saturation Present? Yes X No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring water No	Water-Staine Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or Wo Other (Expla	na (B13) Plants (B14) Ifide Odor (C Izospheres on Reduced Iron Reduction in urface (C7) In in Remarks    N/A	1) Living Roots (C4) Filled Soils (C	Hydrolo	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) latterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) In Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes No X Water Table Present? Yes No X Saturation Present? Yes X No (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring water No	Water-Staine Aquatic Faul True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or Wo Other (Expla	na (B13) Plants (B14) Ifide Odor (C Izospheres on Reduced Iron Reduction in urface (C7) In in Remarks    N/A	1) Living Roots (C4) Filled Soils (C	Hydrolo	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) latterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) In Test (D5)

Site:	w013	, ,	Rater(s):	BRH	Date:	September 30, 2020
2 max 6 pts.	2 subtotal	Metric 1. Wetland Area (size).  Select one size class and assign score.  >50 acres (>20.2ha) (6 pts)  25 to <50 acres (10.1 to <20.2ha) (5 p  10 to <25 acres (4 to <10.1ha) (4 pts)  3 to <10 acres (1.2 to <4ha) (3 pts)  X 0.3 to <3 acres (0.12 to <1.2ha) (2 pts  0.1 to <0.3 acres (0.04 to <0.12ha) (1  <0.1 acres (0.04ha) (0 pts)	)	Pleasant Prair	rie	
1	3	Metric 2. Upland buffers and su				
max 14 pts.	subtotal	2a. Calculate average buffer width. Select only of MIDE. Buffers average 50m (164ft) of MEDIUM. Buffers average 25m to <5 NARROW. Buffers average 10m to <2 X VERY NARROW. Buffers average <10m to <2 EVERY NARROW. Buffers average <10m to <2 EVERY LOW. 2nd growth or older forest LOW. Old field (>10 years), shrubland MODERATELY HIGH. Residential, fend X HIGH. Urban, industrial, open pasture.	r more around v 0m (82 to <164f 5m (32ft to <82 m (<32ft) around ne or double che st, prairie, savand d, young second ced pasture, par	vetland perimeter (7 t) around wetland per ft) around wetland per d wetland perimeter ck and average nah, wildlife area, et growth forest. (5) k, conservation tillag	erimeter (4) erimeter (1) erimeter (1) (0) tc. (7) ge, new fallow field. (3	
18	21	Metric 3. Hydrology				
max 30 pts.	subtotal	3a. Sources of Water. Score all that apply.  High pH groundwater (5)  Other groundwater (3)  X Precipitation (1)  Seasonal/Intermittent surface water ( Perennial surface water (lake or strea)  3c. Maximum water depth. Select only one and  >0.7 (27.6in) (3)  0.4 to 0.7m (15.7 to 27.6in) (2)  X <0.4m (<15.7in) (1)  3e. Modifications to natural hydrologic regime.  X None or none apparent (12)  Recovered (7)  Recovering (3)  Recent or no recovery (1)	m) (5) d assign score.	3d. Duration inun  X Semi- Regu Seasc Seasc Suble check and aver observed  poi filli roa dre	nt source (nonstormwate ng/grading id bed/RR track idging	orest), complex (1) dor (1) one or dbl check ed/saturated (4) I (3) 30cm (12in) (1)
17	38	Metric 4. Habitat Alteration and D	Developmer	nt.		
max 20 pts.	subtotal 38	4a. Substrate disturbance. Score one or double  X None or none apparent (4)  Recovered (3)  Recovering (2)  Recent or no recovery (1)  4b. Habitat development. Select only one and a Excellent (7)  Very good (6)  Good (5)  X Moderately good (4)  Fair (3)  Poor to fair (2)  Poor (1)  4c. Habitat alteration. Score one or double che  X None or none apparent (9)  Recovered (6)  Recovering (3)  Recent or no recovery (1)	assign score	es observed shr her sec ing dre	ub/sapling removal baceous/aquatic bed rem dimentation dging ming	noval
	subtotal this pag	e 📗 🗀	toxic pollutan		rient enrichment	

DRAM v 5.0 Field Form (	Quantitative	Rating
-------------------------	--------------	--------

Site:	w013		Rater(s):	BRH	Date:	September 30, 2020
	5		Site:	Pleasant Prairie		
	subtotal thi	s page				
		Metric 5. Special Wetlands				
max 10 p	t: subtotal	Check all that apply and score as indicated.  Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetland Lake Erie coastal/tributary wetland Lake Plain Sand Prairies (Oak Open Relict Wet Prairies (10) Known occurrence state/federal th Significant migratory songbird/wat Category 1 Wetland. See Question	-restricted hydrolog ings) (10) reatened or endang er fowl habitat or us	gy (5) gered species (10) sage (10)		
	<del>                                     </del>	Not Applicable (0)	1 Qualitative Rating	g (-10)		
5	5	Metric 6. Plant communities, in	terspersion. m	icrotopograhy.		
	treubtotal	6a. Wetland Vegetation Communities.	•	nmunity Cover Scale		
max 20 p	t: Subtotai					
max 20 p	t: Subtotal	Score all present using 0 to 3 scale.	0		s <0.1ha (0.2471	acres) contiguous area
max 20 p	t: Subtotal	<u> </u>		Absent or comprises Present and either of	comprises small is of moderate	part of wetland's quality, or comprises a
max 20 p	t: Subtotal	Score all present using 0 to 3 scale.  Aquatic bed Emergent Shrub Forest Mudflats	0	Absent or comprises Present and either convegetation and significant part Present and either convegetation and	omprises small is of moderate but is of low qu omprises signifi is of moderate	part of wetland's quality, or comprises a
max 20 p	t: subtotal	Score all present using 0 to 3 scale.  Aquatic bed Emergent Shrub Forest	0	Absent or comprises Present and either convegetation and significant part Present and either convegetation and part and is of hi	omprises small is of moderate but is of low que comprises significities of moderate igh quality ses significant page significant signi	part of wetland's quality, or comprises a ality cant part of wetland's quality or comprises a smal art, or more, of wetland's
max 20 p	t: Subtotal	Score all present using 0 to 3 scale.  Aquatic bed Emergent Shrub 1 Forest Mudflats Open water Other 6b. Horizontal (plan view) Interspersion. Select only one.	0 1 2 3	Absent or comprises Present and either convegetation and significant part Present and either convegetation and part and is of his Present and comprise vegetation and	omprises small is of moderate but is of low que comprises significities of moderate igh quality ses significant page significant signi	part of wetland's quality, or comprises a ality cant part of wetland's quality or comprises a smal art, or more, of wetland's
max 20 p	t: subtotal	Score all present using 0 to 3 scale.  Aquatic bed Emergent Shrub 1 Forest Mudflats Open water Other 6b. Horizontal (plan view) Interspersion. Select only one. High (5) Moderately high (4)	0 1 2 3	Absent or comprises Present and either of vegetation and significant part Present and either of vegetation and part and is of hit present and comprise vegetation and part and somprise vegetation and part and somprise vegetation and part and somprise vegetation and somprise vegetation and supplemental prices.	omprises small is of moderate but is of low que omprises significate is of moderate igh quality ses significant pairs of high quality ad/or predomina	part of wetland's quality, or comprises a ality cant part of wetland's quality or comprises a smal art, or more, of wetland's y
max 20 p	t: Subtotal	Score all present using 0 to 3 scale.  Aquatic bed Emergent Shrub 1 Forest Mudflats Open water Other 6b. Horizontal (plan view) Interspersion. Select only one. High (5) Moderately high (4) Moderate (3) X Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer	0 1 2 3 Narrative Descri	Absent or comprises Present and either of vegetation and significant part Present and either of vegetation and part and is of hit present and comprise vegetation and comprise vegetation and part and is of hit present and comprise vegetation Quality Low spp diversity and disturbance tole Native spp are dominal although nonnation although nonnation also be presented to the vegetation and comprise vegetation and c	omprises small is of moderate but is of low quomprises significate is of moderate igh quality ses significant points of high quality ad/or predominate arant native spenant componentive and/or distinct sent, and specie, but generally	part of wetland's quality, or comprises a ality cant part of wetland's quality or comprises a smal art, or more, of wetland's y ance of nonnative or
max 20 p	t: Subtotal	Score all present using 0 to 3 scale.  Aquatic bed Emergent Shrub 1 Forest Mudflats Open water Other 6b. Horizontal (plan view) Interspersion. Select only one. High (5) Moderately high (4) Moderate (3) X Moderately low (2) Low (1) None (0)	0 1 2 3 Narrative Describer	Absent or comprises Present and either of vegetation and significant part Present and either of vegetation and part and is of hit present and comprise vegetation and ription of Vegetation Quality Low spp diversity an disturbance tole Native spp are dominal although nonnation can also be present moderately high threatened or early or disturbance of reand/or disturbance of reand/or disturbance of reand/or disturbance of reand/or disturbance absent, and high	omprises small is of moderate but is of low queomprises significate is of moderate igh quality ses significant prices of high quality addor predominate erant native speciant component ative and/or distinct sent, and species, when the species, we must be precised to the species of the specie	part of wetland's quality, or comprises a ality cant part of wetland's quality or comprises a smal art, or more, of wetland's y ance of nonnative or ecies at of the vegetation, turbance tolerant native spr as diversity moderate to w/o presence of rare
max 20 p	t: Subtotal	Score all present using 0 to 3 scale.  Aquatic bed Emergent Shrub 1 Forest Mudflats Open water Other 6b. Horizontal (plan view) Interspersion. Select only one.  High (5) Moderately high (4) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) Sparse 5-25% cover (-1) Nearly absent <5% cover (0)	0 1 2 3 Narrative Describow mod	Absent or comprises Present and either of vegetation and significant part Present and either of vegetation and part and is of hit present and comprise vegetation and part and comprise vegetation and ription of Vegetation Quality Low spp diversity and disturbance tole Native spp are dominal although nonnation can also be present moderately high threatened or early for disturbance of respective and/or disturbance of and/or disturbance of the presence of the presence of the significant control of the presence of the significant control of the presence of the significant control of the presence of the p	omprises small is of moderate but is of low queomprises significate is of moderate igh quality ses significant prices of high quality addor predominate erant native speciant component ative and/or distinct sent, and species, when the species, we must be precised to the species of the specie	part of wetland's quality, or comprises a ality cant part of wetland's quality or comprises a smal art, or more, of wetland's y ance of nonnative or ecies at of the vegetation, turbance tolerant native spr es diversity moderate tc w/o presence of rare with nonnative spp tive spp absent or virtually and often, but no always,
max 20 p	t: Subtotal	Score all present using 0 to 3 scale.  Aquatic bed Emergent Shrub 1 Forest Mudflats Open water Other 6b. Horizontal (plan view) Interspersion. Select only one.  High (5) Moderately high (4) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-1) Nearly absent <5% cover (0) Absent (1)	0 1 2 3 Narrative Describow mod	Absent or comprises Present and either of vegetation and significant part Present and either of vegetation and part and is of hit present and comprise vegetation and part and is of hit present and comprise vegetation and ription of Vegetation Quality Low spp diversity and disturbance tole Native spp are dominal though nonnation can also be present moderately high threatened or early and/or disturbance of reand/or disturbance of reand/or disturbance of respectively.	omprises small is of moderate but is of low quomprises significant process significant	part of wetland's quality, or comprises a ality cant part of wetland's quality or comprises a smal art, or more, of wetland's y ance of nonnative or ecies at of the vegetation, turbance tolerant native spr es diversity moderate tc w/o presence of rare with nonnative spp tive spp absent or virtually and often, but no always,
max 20 p	t: Subtotal	Score all present using 0 to 3 scale.  Aquatic bed Emergent Shrub 1 Forest Mudflats Open water Other 6b. Horizontal (plan view) Interspersion. Select only one. High (5) Moderately high (4) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography. Score all present using 0 to 3 scale.	0 1 2 3 Narrative Describer of the second of	Absent or comprises Present and either of vegetation and significant part Present and either of vegetation and part and is of hit present and comprise vegetation and part and is of hit present and comprise vegetation and part and is of hit present and comprise vegetation and part and is of hit present and comprise vegetation and vegetation and vegetation Quality Low spp diversity and disturbance tole Native spp are dominal although nonnation can also be present moderately high threatened or each predominance of reand/or disturbation absent, and high the presence of pen Water Class Quality  Absent <0.1ha (0.24) Present very small alternative vegetation and expensive present very small alternative present very small alternative part and either of the present very small alternative part and either of the present very small alternative present very small alter	omprises small is of moderate but is of low quomprises significant process significant	part of wetland's quality, or comprises a ality cant part of wetland's quality or comprises a smal art, or more, of wetland's art, or more, of wetland's y ance of nonnative or ecies at of the vegetation, turbance tolerant native spr es diversity moderate to w/o presence of rare with nonnative spp tive spp absent or virtually and often, but no always, ed, or endangered spp
max 20 p	t: Subtotal	Score all present using 0 to 3 scale.  Aquatic bed Emergent Shrub 1 Forest Mudflats Open water Other 6b. Horizontal (plan view) Interspersion. Select only one.  High (5) Moderately high (4) Moderately low (2) Low (1) None (0) 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage Extensive >75% cover (-5) Moderate 25-75% cover (-3) X Sparse 5-25% cover (-1) Nearly absent <5% cover (0) Absent (1) 6d. Microtopography.	0 1 2 3 Narrative Describer of the second of	Absent or comprises Present and either of vegetation and significant part Present and either of vegetation and part and is of hit present and comprise vegetation and  Present and comprise vegetation and part and is of hit present and comprise vegetation and part and is of hit present and comprise vegetation and part and is of hit present and comprise vegetation and part and is of present and specific present and predominance of result and predominance of result and present and presence of pen Water Class Quality  Absent <0.1ha (0.24)	omprises small is of moderate but is of low quomprises significate is of moderate igh quality sees significant prices of high quality is of high q	part of wetland's quality, or comprises a ality cant part of wetland's quality or comprises a smal art, or more, of wetland's y ance of nonnative or scies at of the vegetation, turbance tolerant native spr as diversity moderate to w/o presence of rare with nonnative spp tive spp absent or virtually and often, but no always, ed, or endangered spp  ore common

43 Grand Total (max 100 pts)

Refer to the most recent ORAM Score Calibration Report for the scoring breakpoints between wetland categories at the following address: http://www.epa.state.oh.us/dsw/401/401.html

Comments:

# Attachment C Additional Wetlands Figure



This foregoing document was electronically filed with the Public Utilities

**Commission of Ohio Docketing Information System on** 

8/24/2021 9:33:50 AM

in

Case No(s). 20-1679-EL-BGN

Summary: Response to Sixth Data Request from Staff of the Ohio Power Siting Board electronically filed by Christine M.T. Pirik on behalf of PLEASANT PRAIRIE SOLAR ENERGY LLC