## WETLAND DELINEATION REPORT

Litchfield Solar – Carson Power City of Litchfield Parcel Number(s): 15-17-100-004 and 15-17-200-010 Montgomery County, Illinois

**Prepared For:** 

Carson Power, LLC 110 William St, 24<sup>th</sup> Floor New York, NY 10038

Attn: Owen Hooper, Director of Development Operations

**Prepared By:** 

Langan Engineering and Environmental Services, LLC 200 W Madison Street, Suite 1920 Chicago, Illinois 60606 NJ Certificate of Authorization No.: 24GA27996400

> 6 December 2024 Langan Project Number: 541060301



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## LANGAN

#### Page No.

#### 1.0 SITE LOCATION AND DESCRIPTION

This Wetland Delineation Report has been prepared for the Site located on Historic Route 66 in the City of Litchfield, Montgomery County, Illinois (Figures 1 and 2). The approximate 24±-acre property is identified as parcel numbers 15-17-100-004 and 15-17-200-010 on the municipal tax maps (Figure 3) ("the Site"). The approximate center of the Site is located at 39.141232°N, -89.672104°W.

The Site is bound by Historic Route 66 to the east and agricultural land to the north, south, and west (Figure 1). Site photographs are provided in Appendix A.

The project site is currently an agricultural field used for the purpose of row crop production. There are no existing structures on-site and an access drive is present along the northern site boundary (Figure 4). An agricultural swale is present in the central portion of the study area and did not qualify as a wetland during the site visit (see Appendix D - USACE Data Sheets). The site was noted as being in a seasonal mild drought. However, preceding the site visit there were multiple days with rainfall and site conditions appeared normal on the day of the site visit.

Site grades are approximately 685 feet, per the North American Vertical Datum of 1988 (NAVD 88). The site is located in the West Fork Shoal Creek (HUC-10) watershed (Figure 1). The mapped path of West Fork Shoal Creek surface water is to the east of the site.

The Federal Emergency Management Agency (FEMA) Effective Flood Insurance Rate Map (FIRM) does not have current mapped digital data information within and around Litchfield, IL. The Litchfield area flood data for the site dates back to 1/9/1981 (FIRM panel 1709920005A).

The United States Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) database does not identify any mapped water features on-site (Figure 5).

Langan wetland scientists performed a site inspection on 12 November 2024. The presence of wetlands was confirmed in the northeast portion of the Site. Wetland A is further described in Section 2.0 below.

The United States Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) Web Soil Survey mapper shows five soil map units to be located onsite.



The following soil map units are present along the periphery of the site: Harrison silt loam, 0 to 2 percent slopes (127A), Harrison silt loam, 2 to 5 percent slopes (127B), Oconee-Darmstadt-Coulterville silt loams, 2 to 5 percent slopes, eroded (882B2), Herrick-Biddle-Piasa silt loams, 0 to 2 percent slopes (894A), and Cowden-Piasa silt loams, 0 to 2 percent slopes, hydric (993A)(Figure 6).

The USFWS Information for Planning and Consultation System (IPaC) Official Species List, dated 13 November 2024 from the Southern Illinois Sub-Office Ecological Services Field Office identifies the potential presence of the endangered Indiana bat (*Myotis sodalis*), the experimental population, non-essential Whooping Crane (*Grus americana*), and the candidate species, the monarch butterfly (*Danaus plexippus*)(Appendix C).

#### 2.0 WETLAND SITE VISIT

The subject property was evaluated for the presence of potential wetlands by Langan wetland scientists on 12 November 2024, in accordance with USACE guidelines as specifically referenced in the 1987 *Corps of Engineers Wetlands Delineation Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual*: *Midwest Region*, Version 2.0, August 2010. This methodology utilizes a three-parameter approach to identify and delineate wetlands. The technical criteria require a field evaluation of the dominance of hydrophytic vegetation, the presence of suitable wetland hydrology, and hydric soils in a positive determination. Observations for these parameters are discussed below and data sheets showing the absence of wetland features onsite are included in Appendix D.

The project site is fully developed as an agricultural field used for row crop production. The majority of the site is therefore devoid of volunteer vegetation and was dominated by remnant corn from the previous harvest. A farmed wetland review was conducted following protocol outlined by the U.S. Department of Agriculture (USDA) Farm Service Agency in coordination with the use of the Antecedent Precipitation Tool (APT) issued by the U.S. Army Corps of Engineers. The aerial summary and antecedent precipitation results are included (Appendix B). Eleven total signatures were reviewed, however, none were present in greater than 50% of aerials with normal precipitation. The area identified as Signature 1 coincides with flagged Wetland A.

The eastern and northern vegetated upland areas consisted of common grasses and invasives species with no saplings, shrubs, or trees. Dominant species consisted of Kentucky blue grass (*Poa pratensis*), foxtail (*Setaria spp.*), dandelion (*Taraxacum*)



officinale), goldenrod (*Solidago spp.*), red clover (*Trifolium pratense*), and English plantain (*Plantago lanceolata*).

One wetland was identified within the northeastern portion of the site as shown on the Site Aerial Photograph (Figure 4). Refer to the wetland delineation field data sheets for additional information on vegetation, soils, and hydrology (Appendix D).

#### Wetland A

Wetland A is a 0.058-acre wetland located in the northeastern corner of the site. The majority of the wetland is comprised of low-quality herbaceous vegetation that partially extends into the agricultural field. Wetland A also connects to the roadside drainage ditch associated with Historic U.S. Route 66. During the farmed wetland review, Wetland A was reviewed as Signature 1. Although Signature 1 was not present in greater than 50% of the reviewed aerials with normal precipitation, during the site visit perennial wetland vegetation was observed and the wetland was flagged.

The dominant vegetation observed within the wetland is Fall Panic Grass (*Panicum dichotomiflorum*), yellow foxtail (*Setaria pumila*), lance-leaved American-aster (*Symphyotrichum lanceolatum*), and pinkweed (*Persicaria pensylvanica*).

Hydrologic indicators observed within Wetland A include surface water, a high-water table, saturation visible on aerial imagery, and geomorphic position.

Soils within Wetland A met the criteria for hydric soil indicators depleted below dark surface (A11) and depleted matrix (F3).

#### 3.0 CONCLUSION

The regulatory boundaries of wetlands and jurisdictional waters (a Waters of the United States) have been delineated in compliance with the USACE delineation manual. One wetland is present onsite in the northeastern corner of the site.

<sup>\\</sup>langan.com\data\CH\\data3\541060301\Project Data\\_Discipline\Natural Resources\Reports\Litchfield Solar\_WLD Report Narrative\_DRAFT.doc

**FIGURES** 





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## **APPENDIX A**

## SITE PHOTOGRAPHS AND PHOTOGRAPH LOCATION MAP

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## Site Photographs

**Client Name:** 

Carson Power

#### Project Name and Location:

Litchfield Solar, Litchfield, Montgomery Co., IL

**Project No**. 541060301





# LANGAN

## Site Photographs

**Client Name:** 

Carson Power

**Project Name and Location:** 

**Project No**. 541060301

Litchfield Solar, Litchfield, Montgomery Co., IL







# LANGAN

#### **Client Name:**

Carson Power

## Site Photographs

#### **Project Name and Location:**

Litchfield Solar, Litchfield, Montgomery Co., IL

Project No.

541060301



Date	Photo No.						
11/12/2024	6						
<b>Direction Photo Taken:</b>							
c	2						
· · · ·							

#### Description:

Northern portion of agricultural swale. Corn row crop present throughout. Volunteer vegetation dominated by foxtail.



## **APPENDIX B**

## FARMED WETLAND REVIEW

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Antecedent Precipitation Farmed Wetland Review Litchfield Solar-Carson Power Litchfield, Montgomery County, Illinois Langan Project No.: 541060301



Figure 1. Farmed wetland review utilizing the Antecedent Precipitation Tool. Annual farmed wetland signatures shown in yellow. None of these signatures were present in greater than 50% of the aerials reviewed with normal precipitation levels.



## LANGAN Project Name: Litchfield Sola

Project Name:Litchfield Solar - Carson PowerProject Number:541056001Location (Lat/Long):39.141152, -89.672173

	Antecedent											
	Precipitation											
Aerial Date*	Condition**	Signature 1	Signature 2	Signature 3	Signature 4	Signature 5	Signature 6	Signature 7	Signature 8	Signature 9	Signature 10	Signature 11
6/2/2006	Normal Conditions	N	Y	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν
6/6/2007	Normal Conditions	N	Ν	Ν	Y	Y	Ν	Ν	Ν	Ν	Ν	Ν
6/23/2010	Wetter than Normal	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
9/28/2012	Normal Conditions	Y	Y	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Y	Ν
10/21/2020	Normal Conditions	N	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν
9/13/2022	Normal Conditions	N	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν
Total number of signa	atures in Normal Conditions	1	2	0	1	1	0	0	0	0	1	0
Hydric Soil Mapped		N	Ν	Ν	Ν	Ν	Y	Ν	Ν	Y	Y	Y
Mapped NWI***		N	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν
Percentage of years p	present in Normal Conditions	20%	40%	0%	20%	20%	0%	0%	0%	0%	20%	0%
Signature qualifies a	as wetland	No	No									

\*Aerial photographs are provided by Google Earth Aerial Imagery

\*\*Antecedent Precipitation Conditions are provided by the USACE Antecedent Precipitation Tool

\*\*\*Mapped National Wetlands Inventory present within signature qualifies as a signature





Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation $\Delta$	Weighted $\Delta$	Days Normal	Days Antecedent
MT OLIVE 1 E	39.0728, -89.7014	669.948	4.976	13.011	2.304	11261	90
HILLSBORO	39.1611, -89.4919	629.921	12.781	40.027	6.263	90	0
MEDORA 1 S	39.1561, -90.1392	606.955	24.165	62.993	12.396	2	0

ondition Value	Month Weight	Product
1	3	3
2	2	4
3	1	3
		Normal Conditions - 10



Coordinates	39.141152, -89.672173
Observation Date	2007-06-06
Elevation (ft)	682.959
Drought Index (PDSI)	Mild drought
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2007-06-06	2.398425	5.271654	3.854331	Normal	2	3	6
2007-05-07	2.617717	4.901575	3.996063	Normal	2	2	4
2007-04-07	2.124803	3.809055	2.433071	Normal	2	1	2
Result							Normal Conditions - 12



Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation $\Delta$	Weighted $\Delta$	Days Normal	Days Antecedent
MT OLIVE 1 E	39.0728, -89.7014	669.948	4.976	13.011	2.304	11291	90
HILLSBORO	39.1611, -89.4919	629.921	12.781	40.027	6.263	60	0
MEDORA 1 S	39.1561, -90.1392	606.955	24.165	62.993	12.396	2	0





Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation $\Delta$	Weighted $\Delta$	Days Normal	Days Antecedent
MT OLIVE 1 E	39.0728, -89.7014	669.948	4.976	13.011	2.304	11254	90
LITCHFIELD 0.8 SE	39.1696, -89.644	679.134	7.362	9.186	3.381	29	0
LITCHFIELD 0.2 SE	39.1737, -89.6541	688.976	7.418	19.028	3.479	3	0
HILLSBORO	39.1611, -89.4919	629.921	12.781	40.027	6.263	65	0
MEDORA 1 S	39.1561, -90.1392	606.955	24.165	62.993	12.396	2	0

ondition Value	Month Weight	Product
3	3	9
3	2	6
2	1	2
		Wetter than Normal - 17

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network

![](_page_23_Figure_1.jpeg)

HILLSBORO

MEDORA 1 S

629.921

606.955

39.1611, -89.4919

39.1561, -90.1392

12.781

24.165

ERDC

ondition Value	Month Weight	Product
3	3	9
2	2	4
1	1	1
		Normal Conditions - 14

evation $\Delta$	Weighted $\Delta$	Days Normal	Days Antecedent
13.011	2.304	11218	89
9.186	0.688	2	1
9.186	3.381	60	0
19.028	3.479	6	0
69.882	4.028	1	0
40.027	6.263	63	0
62.993	12.396	2	0

![](_page_24_Figure_0.jpeg)

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation $\Delta$	Weighted $\Delta$	Days Normal	Days Antecedent
MT OLIVE 1 E	39.0728, -89.7014	669.948	4.976	13.011	2.304	11161	90
MOUNT OLIVE 0.4 S	39.0664, -89.7281	679.134	1.499	9.186	0.688	64	0
LITCHFIELD 0.8 SE	39.1696, -89.644	679.134	7.362	9.186	3.381	60	0
LITCHFIELD 0.2 SE	39.1737, -89.6541	688.976	7.418	19.028	3.479	6	0
STAUNTON 1.5 WSW	39.0012, -89.8125	600.066	7.748	69.882	4.028	1	0
HILLSBORO	39.1611, -89.4919	629.921	12.781	40.027	6.263	59	0
MEDORA 1 S	39.1561, -90.1392	606.955	24.165	62.993	12.396	2	0

ondition Value	Month Weight	Product
2	3	6
1	2	2
3	1	3
		Normal Conditions - 11

![](_page_25_Figure_0.jpeg)

![](_page_25_Figure_1.jpeg)

HILLSBORO

MEDORA 1 S

629.921

606.955

39.1611, -89.4919

39.1561, -90.1392

12.781

24.165

ERDC

U.S. Army Engineer Research and Development Center

ondition Value	Month Weight	Product
2	3	6
3	2	6
2	1	2
		Normal Conditions - 14

evation $\Delta$	Weighted $\Delta$	Days Normal	Days Antecedent
13.011	2.304	11143	88
9.186	0.688	82	2
9.186	3.381	60	0
19.028	3.479	6	0
69.882	4.028	1	0
40.027	6.263	59	0
62.993	12.396	2	0

## **APPENDIX C**

## THREATENED AND ENDANGERED SPECIES CORRESPONDENCE

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![](_page_27_Picture_0.jpeg)

## United States Department of the Interior

FISH AND WILDLIFE SERVICE

![](_page_27_Picture_3.jpeg)

Southern Illinois Sub-Office Southern Illinois Sub-office 8588 Route 148 Marion, IL 62959-5822 Phone: (618) 998-5945 Email Address: <u>Marion@fws.gov</u> https://www.fws.gov/office/illinois-iowa-ecological-services

In Reply Refer To: Project Code: 2025-0019155 Project Name: Litchfield Solar-Carson Power 11/13/2024 20:16:29 UTC

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The attached species list identifies federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat, if present, within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation. If you determine that other federally protected species not listed in this Official Species List are present in your action area, you are still responsible to analyze your potential effects to those species and consult with the U.S. Fish and Wildlife Service if consultation is required.

Under 50 CFR 402.12(e) (the regulations that implement Section 7 of the Endangered Species Act) **the accuracy of this species list should be verified after 90 days**. This verification can be completed formally or informally. You may verify the list by visiting the Information for Planning and Consultation (IPaC) website <u>https://ipac.ecosphere.fws.gov</u> at regular intervals during project planning and implementation and completing the same process you used to receive the attached list.

#### Section 7 Consultation

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-federal representative) must consult with the U.S. Fish and Wildlife Service

(Service) if they determine their project "may affect" listed species or designated critical habitat. Under the ESA, it is the responsibility of the Federal action agency or its designated representative to determine if a proposed action may affect endangered, threatened, or proposed species, or designated critical habitat, and if so, to consult with the Service further. Similarly, it is the responsibility of the Federal action agency or project proponent, not the Service to make "no effect" determinations. If you determine that your proposed action will have no effect on threatened or endangered species or their respective designated critical habitat, you do not need to seek concurrence with the Service.

**Note:** For some species or projects, IPaC will present you with *Determination Keys*. You may be able to use one or more Determination Keys to conclude consultation on your action for species covered by those keys.

#### **Technical Assistance for Listed Species**

1. For assistance in determining if suitable habitat for listed, candidate, or proposed species occurs within your project area or if species may be affected by project activities, you can obtain information on the species life history, species status, current range, and other documents by selecting the species from the thumbnails or list view and visiting the species profile page.?????

#### No Effect Determinations for Listed Species

- 1. If there are *no* species or designated critical habitats on the Endangered Species portion of the species list: conclude "no species and no critical habitat present" and document your finding in your project records. No consultation under ESA section 7(a)(2) is required if the action would result in no effects to listed species or critical habitat. Maintain a copy of this letter and IPaC official species list for your records.
- 2. If any species or designated critical habitat are listed as potentially present in the action area of the proposed project the project proponents are responsible for determining if the proposed action will have "no effect" on any federally listed species or critical habitat. No effect, with respect to species, means that no individuals of a species will be exposed to any consequence of a federal action or that they will not respond to such exposure.
- 3. If the species habitat is not present within the action area or current data (surveys) for the species in the action area are negative: conclude "no species habitat or species present" and document your finding in your project records. For example, if the project area is located entirely within a "developed area" (an area that is already graveled/paved or supports structures and the only vegetation is limited to frequently mowed grass or conventional landscaping, is located within an existing maintained facility yard, or is in cultivated cropland conclude no species habitat present. Be careful when assessing actions that affect: 1) rights-of-ways that contains natural or semi-natural vegetation despite periodic mowing or other management; structures that have been known to support listed species (example: bridges), and 2) surface water or groundwater. Several species inhabit rights-of-ways, and you should carefully consider effects to surface water or groundwater, which often extend outside of a project's immediate footprint.
- 4. Adequacy of Information & Surveys Agencies may base their determinations on the best evidence that is available or can be developed during consultation. Agencies must give the benefit of any doubt to the species when there are any inadequacies in the information. Inadequacies may include uncertainty in any step of the analysis. To provide adequate information on which to base a determination, it may be appropriate to conduct surveys to determine whether listed species or their habitats are present in the action area. Please contact our office for more information or see the survey guidelines that the Service has made available in IPaC.

#### May Effect Determinations for Listed Species

- 1. If the species habitat is present within the action area and survey data is unavailable or inconclusive: assume the species is present or plan and implement surveys and interpret results in coordination with our office. If assuming species present or surveys for the species are positive continue with the may affect determination process. May affect, with respect to a species, is the appropriate conclusion when a species might be exposed to a consequence of a federal action and could respond to that exposure. For critical habitat, 'may affect' is the appropriate conclusion if the action area overlaps with mapped areas of critical habitat and an essential physical or biological feature may be exposed to a consequence of a federal action and could change in response to that exposure.
- 2. Identify stressors or effects to the species and to the essential physical and biological features of critical habitat that overlaps with the action area. Consider all consequences of the action and assess the potential for each life stage of the species that occurs in the action area to be exposed to the stressors. Deconstruct the action into its component parts to be sure that you do not miss any part of the action that could cause effects to the species or physical and biological features of critical habitat. Stressors that affect species' resources may have consequences even if the species is not present when the project is implemented.
- 3. If no listed or proposed species will be exposed to stressors caused by the action, a 'no effect' determination may be appropriate be sure to separately assess effects to critical habitat, if any overlaps with the action area. If you determined that the proposed action or other activities that are caused by the proposed action may affect a species or critical habitat, the next step is to describe the manner in which they will respond or be altered. Specifically, to assess whether the species/critical habitat is "not likely to be adversely affected."
- 4. Determine how the habitat or the resource will respond to the proposed action (for example, changes in habitat quality, quantity, availability, or distribution), and assess how the species is expected to respond to the effects to its habitat or other resources. Critical habitat analyses focus on how the proposed action will affect the physical and biological features of the critical habitat in the action area. If there will be only beneficial effects or the effects of the action are expected to be insignificant or discountable, conclude "may affect, not likely to adversely affect" and submit your finding and supporting rationale to our office and request concurrence.
- 5. If you cannot conclude that the effects of the action will be wholly beneficial, insignificant, or discountable, check IPaC for species-specific Section 7 guidance and conservation measures to determine whether there are any measures that may be implemented to avoid or minimize the negative effects. If you modify your proposed action to include conservation measures, assess how inclusion of those measures will likely change the effects of the action. If you cannot conclude that the effects of the action will be wholly beneficial, insignificant, or discountable, contact our office for assistance.
- 6. Letters with requests for consultation or correspondence about your project should include the Consultation Tracking Number in the header. Electronic submission is preferred.

For additional information on completing Section 7 Consultation including a Glossary of Terms used in the Section 7 Process, information requirements for completing Section 7, and example letters visit the Midwest Region Section 7 Consultations website at: <u>https://www.fws.gov/library/collections/midwest-region-section-7-consultations</u>.

You may find more specific information on completing Section 7 on communication towers and transmission lines on the following websites:

- Incidental Take Beneficial Practices: Power Lines https://www.fws.gov/story/incidentaltake-beneficial-practices-power-lines
- Recommended Best Practices for Communication Tower Design, Siting, Construction, Operation, Maintenance, and Decommissioning. - <u>https://www.fws.gov/media/</u> <u>recommended-best-practices-communication-tower-design-siting-construction-operation</u>

#### Tricolored Bat Update

On September 14, 2022, the Service published a proposal in the Federal Register to list the tricolored bat (Perimyotis subflavus) as endangered under the Endangered Species Act (ESA). The Service has up to 12-months from the date the proposal published to make a final determination, either to list the tricolored bat under the Act or to withdraw the proposal. The Service determined the bat faces extinction primarily due to the rangewide impacts of whitenose syndrome (WNS), a deadly fungal disease affecting cave-dwelling bats across North America. Because tricolored bat populations have been greatly reduced due to WNS, surviving bat populations are now more vulnerable to other stressors such as human disturbance and habitat loss. Species proposed for listing are not afforded protection under the ESA; however, as soon as a listing becomes effective (typically 30 days after publication of the final rule in the Federal Register), the prohibitions against jeopardizing its continued existence and "take" will apply. Therefore, if your future or existing project has the potential to adversely affect tricolored bats after the potential new listing goes into effect, we recommend that the effects of the project on tricolored bat and their habitat be analyzed to determine whether authorization under ESA section 7 or 10 is necessary. Projects with an existing section 7 biological opinion may require reinitiation of consultation, and projects with an existing section 10 incidental take permit may require an amendment to provide uninterrupted authorization for covered activities. Contact our office for assistance.

#### **Bald and Golden Eagles**

Although no longer protected under the Endangered Species Act, be aware that bald eagles are protected under the Bald and Golden Eagle Protection Act and Migratory Bird Treaty Act, as are golden eagles. Projects affecting these species may require measures to avoid harming eagles or may require a permit. If your project is near an eagle nest or winter roost area, please contact our office for further coordination. For more information on permits and other eagle information visit our website <a href="https://www.fws.gov/library/collections/bald-and-golden-eagle-management">https://www.fws.gov/library/collections/bald-and-golden-eagle-management</a>.

We appreciate your concern for threatened and endangered species. Please feel free to contact our office with questions or for additional information.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries

## **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

#### Southern Illinois Sub-Office

Southern Illinois Sub-office 8588 Route 148 Marion, IL 62959-5822 (618) 998-5945

## **PROJECT SUMMARY**

Project Code:	2025-0019155
Project Name:	Litchfield Solar-Carson Power
Project Type:	Power Gen - Solar
Project Description:	Site used for agricultural row crop production (corn in previous harvest).
	Proposed solar array development with associated utilities, access, and
	stormwater.

Project Location:

The approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@39.1410451,-89.6721206708516,14z</u>

![](_page_33_Figure_6.jpeg)

Counties: Montgomery County, Illinois

## **ENDANGERED SPECIES ACT SPECIES**

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### MAMMALS

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/5949</u>	Endangered
BIRDS NAME	STATUS
<ul> <li>Whooping Crane <i>Grus americana</i></li> <li>Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY)</li> <li>No critical habitat has been designated for this species.</li> <li>Species profile: <a href="https://ecos.fws.gov/ecp/species/758">https://ecos.fws.gov/ecp/species/758</a></li> </ul>	Experimental Population, Non- Essential

### INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i>	Candidate
No critical habitat has been designated for this species.	
Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>	

### **CRITICAL HABITATS**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

## USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

## **IPAC USER CONTACT INFORMATION**

Agency: **Private Entity** Name: Olivia Hollander Address: 200 W Madison Street Address Line 2: Suite 1920 City: Chicago State: IL Zip: 60606 Email ohollander@langan.com Phone: 8476528288

![](_page_37_Picture_0.jpeg)

![](_page_37_Picture_1.jpeg)

Applicant:LanganContact:Olivia HollanderAddress:200 West Madison StreetSuite #1920Chicago, IL 60606

IDNR Project Number: 2506127 Date: 11/13/2024

Project:Litchfield SolarAddress:Historic Route 66, Litchfield

*Description:* Site used for agricultural row crop production (corn in previous harvest). Proposed solar array development with associated utilities, access, and stormwater.

### Natural Resource Review Results

The Illinois Natural Heritage Database contains no record of State-listed threatened or endangered species, Illinois Natural Area Inventory sites, dedicated Illinois Nature Preserves, or registered Land and Water Reserves in the vicinity of the project location.

**Consultation is terminated.** This consultation is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Termination does not imply IDNR's authorization or endorsement.

#### **Location**

The applicant is responsible for the accuracy of the location submitted for the project.

County: Montgomery

*Township, Range, Section:* 8N, 5W, 17

IL Department of Natural Resources Contact Alex Davis 217-785-5500 Division of Ecosystems & Environment

#### Disclaimer

![](_page_37_Picture_15.jpeg)

**Government Jurisdiction** U.S. Army Corps of Engineers

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

#### Terms of Use

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.

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EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law.

Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

#### Privacy

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.

## **APPENDIX D**

## **USACE DATA SHEETS**

LANGAN

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Litchfie	eld Solar			City/Cou	unty: Litchfiel	d / Montgomery Co.	Sampling Da	ate: <u>11/12</u>	2/2024
Applicant/Owner:	Carson Power					State: IL	Sampling Po	int: D	)P 3
Investigator(s): O. H	Iollander			Section,	Township, Ra	inge: N S17 T8N F	85W		
Landform (hillside, t	terrace, etc.): None				Local relief (c	concave, convex, no	ne): None		
Slope (%):	Lat: 39.141232			Long:	-89.672104		Datum:		
Soil Map Unit Name	: Herrick-Biddle-Piasa	a silt loams (	894A)			NWI c	assification: N/A		
Are climatic / hydrol	logic conditions on the	site typical f	for this time of y	/ear?	Yes X	No (If no	, explain in Remark	s.)	
Are Vegetation	, Soil , or Hyd	rology	significantly dis	turbed?	Are "Normal C	Circumstances" pres	ent? Yes X	No	
Are Vegetation	, Soil , or Hyd	rology	naturally proble	matic?	(If needed, ex	plain any answers in	n Remarks.)		-
SUMMARY OF	FINDINGS – Atta	ch site m	ap showing	sampli	ng point lo	cations, transe	cts, important	features	, etc.
			· · ·		•••	· · · · · · · · · · · · · · · · · · ·	•		
Hydrophytic Veget	ation Present? Yes	N	0 <u>X</u>	Is the	e Sampled Ai	rea			
Wetland Hydrology	v Present? Yes	N	0 X	with	in a wetland	e tes_			
Remarks:			<u> </u>						
In northern end of	linear feature								
<b>VEGETATION</b> -	– Use scientific na	mes of pla	ants.						
			Absolute	Dominant	Indicator				
Tree Stratum	(Plot size: 30	)	% Cover	Species?	Status	Dominance Test	worksheet:		
1. 2.						Number of Domir Are OBL, FACW	nant Species That or FAC:	1	(A)
3.						Total Number of	- Dominant Species		
4						Across All Strata	-	2	(B)
5						Percent of Domin	ant Species That		
Sopling/Shrub Stro	(Plot size:	15	)=I	otal Cover	ſ	Are OBL, FACW,	or FAC:	50.0%	_(A/B)
1		15	)			Prevalence Inde	x worksheet		
2.						Total % Cov	er of: Mu	ltiply by:	
3.						OBL species	0 x 1 =	0	-
4.						FACW species	35 x 2 =	70	
5.						FAC species	0 x 3 =	0	_
			=T	otal Cover	r	FACU species	<u> </u>	0	-
Llorb Ctrotum	(Distaine) E	\ \					60 V E	200	

4.				FACW species 35 x 2 = 70
5.				FAC species 0 x 3 = 0
		=Total Cover		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5 )		-		UPL species 60 x 5 = 300
1. Zea mays	60	Yes	UPL	Column Totals: 95 (A) 370 (B)
2. Panicum dichotomiflorum	35	Yes	FACW	Prevalence Index = B/A = 3.89
3.				
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				2 - Dominance Test is >50%
7.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
8.				4 - Morphological Adaptations <sup>1</sup> (Provide supportin
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 15 )	95	=Total Cover		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1		·		Hydrophytic Vegetation
		=Total Cover		Present? Yes <u>No X</u>

Remarks: (Include photo numbers here or on a separate sheet.) Corn crop recently harvested. Remnant stalks present.

SOIL
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Depth	Matrix	Redo	x Featur	es							
(inches)	Color (moist) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	ure		Remarks		
0-16	10YR 3/1 100				М	Loamy/C	Clayey				
16-24	2.5Y 4/1 90		_	D	М	Loamy/C	Clayey				
		10YR 5/6	10	С			• · · ·	Promir	nent redox con	centratio	ons
	· ·										
		-Reduced Matrix	MS-Mas	kod San	d Grains			PI -Pore	Lining M-Ma	triv	
Hydric Soil			10=11185	keu Sali	u Grains.		Indicator	s for Prob	lematic Hvdri	c Soils <sup>3</sup>	
Histosol	(A1)	Sandy Gle	eved Mat	rix (S4)			Iron-N	/anganese	e Masses (F12	)	•
Histic Ep	ipedon (A2)	Sandy Re	dox (S5)	(= .)			Red F	Parent Mate	erial (F21)	/	
Black His	stic (A3)	Stripped M	Aatrix (Se	5)			Very	Shallow Da	ark Surface (F	22)	
Hydroge	n Sulfide (A4)	Dark Surf	ace (S7)				Other	· (Explain ir	n Remarks)		
Stratified	Layers (A5)	Loamy Mu	ucky Mine	eral (F1)							
2 cm Mu	ck (A10)	Loamy Gl	eyed Mat	trix (F2)							
Depleted	Below Dark Surface (A11)	Depleted	Matrix (F	3)							
Thick Da	rk Surface (A12)	Redox Da	rk Surfac	e (F6)			<sup>3</sup> Indicator	s of hydrop	ohytic vegetation	on and	
Sandy M	Sandy Mucky Mineral (S1) Depleted Dark Surfa			face (F7	)		wetla	nd hydrolog	gy must be pre	esent,	
5 cm Mu	cky Peat or Peat (S3)	Redox De	pression	s (F8)			unles	s disturbed	d or problemat	c.	
	aver (if observed):										
Restrictive L	Layer (il observeu).										
Restrictive I Type:	Layer (il observeu).										
Restrictive I Type: Depth (in	iches):	_				Hydric So	il Present	?	Yes	No	X
Restrictive I Type: Depth (in Remarks:	aches):	_				Hydric So	il Present	?	Yes	No	<u>X</u>
Restrictive I Type: _ Depth (in Remarks:	iches):					Hydric So	il Present	?	Yes	No	<u> </u>
Restrictive I Type: Depth (ir Remarks:	nches):	_				Hydric So	il Present	?	Yes	_ No	<u> </u>
Restrictive I Type: Depth (ir Remarks:	iches):					Hydric So	il Present	?	Yes	No	<u> </u>
Restrictive I Type: _ Depth (ir Remarks:	iches):					Hydric So	il Present	?	Yes	No	<u> </u>
Restrictive I Type: Depth (ir Remarks: 1YDROLO	Iches):					Hydric So	il Present	?	Yes	No	<u>X</u>
Restrictive I Type: Depth (ir Remarks: HYDROLO Wetland Hyd	GY					Hydric So	il Present	?	Yes	_ No	<u>X</u>
Restrictive I Type: Depth (ir Remarks: IYDROLO Wetland Hyd Primary Indic	GY Hology Indicators: Cators (minimum of one is requ	ired; check all that	apply)			Hydric So	il Present	? y Indicator	Yes	No	X uired)
Restrictive I Type: Depth (ir Remarks: HYDROLO Wetland Hyc Primary Indic Surface V	GY drology Indicators: cators (minimum of one is required).	ired; check all that Water-Sta	apply) ined Lea	ives (B9)		Hydric So	il Present <u>Secondar</u> Surfa	? y Indicator ce Soil Cra	Yes s (minimum of acks (B6)	No	X uired)
Restrictive I Type: Depth (ir Remarks: HYDROLO Wetland Hyd Primary Indic Surface V High Wa	GY drology Indicators: cators (minimum of one is requination of the second se	ired; check all that Water-Sta Aquatic Fa	apply) ined Lea auna (B1	ives (B9) 3)		Hydric So	il Present <u>Secondar</u> Surfa Drain	? y Indicator ce Soil Cra age Patter	Yes s (minimum of acks (B6) ns (B10)	_ No	X
Restrictive I Type: Depth (ir Remarks: HYDROLO Wetland Hyd Primary Indic Surface High Wa Saturato	GY drology Indicators: cators (minimum of one is required) Water (A1) ter Table (A2) m (A3) in (A3)	ired; check all that Water-Sta Aquatic Fi True Aqua	apply) iined Lea auna (B1 atic Plant	ives (B9) 3) s (B14)		Hydric So	Secondar Surfa Drain Dry-S	<u>y Indicator</u> ce Soil Cra age Patteri eeason Wa	Yes rs (minimum of acks (B6) ns (B10) iter Table (C2)	No	X uired)
Restrictive I Type: Depth (ir Remarks: HYDROLO Wetland Hyc Primary Indic Surface V High Wa Saturatio Water Mi	GY drology Indicators: cators (minimum of one is requination Water (A1) ter Table (A2) on (A3) arks (B1)	ired; check all that Water-Sta Aquatic F: True Aqua Hydrogen	apply) ined Lea auna (B1 atic Plant Sulfide C	ives (B9) 3) s (B14) Ddor (C1	)	Hydric So	Secondar Surfa Drain Dry-S Crayf	<u>y Indicator</u> ce Soil Cra age Patteri ieason Wa ish Burrow	Yes rs (minimum of acks (B6) ns (B10) ter Table (C2) rs (C8)	No	X uired)
Restrictive I Type: Depth (ir Remarks: HYDROLO Wetland Hyo Primary Indic Surface V High Wa Saturatio Water M: Sedimen	GY drology Indicators: cators (minimum of one is requination with the second	ired; check all that Water-Sta Aquatic Fi True Aqua Hydrogen	apply) iined Lea auna (B1 atic Plant Sulfide ( Rhizosph	ives (B9) 3) s (B14) Ddor (C1 eres on	) Living Ro	Hydric So bots (C3)	Secondar Surfa Drain Dry-S Crayf X Satur	<u>y Indicator</u> ce Soil Cra age Pattern ceason Wa ish Burrow ation Visib	Yes s (minimum of acks (B6) ns (B10) ter Table (C2) rs (C8) le on Aerial Im	No	X uired)
Restrictive I Type: Depth (ir Remarks: HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water Ma Sedimen Drift Dep	GY drology Indicators: cators (minimum of one is requination with the second	ired; check all that Water-Sta Aquatic F True Aqua Hydrogen Oxidized I Presence	apply) iined Lea auna (B1 atic Plant Sulfide ( Rhizosph of Reduc	ives (B9) 3) s (B14) Ddor (C1 eres on ced Iron	) Living Ro (C4)	Hydric So	Secondar Surfa Drain Dry-S Crayf X Satur Stunt	<u>y Indicator</u> ce Soil Cra age Patter eason Wa ish Burrow ation Visib ed or Stres	Yes s (minimum of acks (B6) ns (B10) ter Table (C2) rs (C8) le on Aerial Im ssed Plants (D	<u>No</u>	X uired)
Restrictive I Type: Depth (ir Remarks: HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water M: Sedimen Drift Dep Algal Ma	GY drology Indicators: cators (minimum of one is requination of the second se	ired; check all that Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized I Presence Recent Iro	apply) ined Lea auna (B1 atic Plant Sulfide ( Rhizosph of Reduc in Reduc	ives (B9) 3) s (B14) Ddor (C1 eres on ced Iron tion in T	) Living Ro (C4) illed Soil:	Hydric So bots (C3) s (C6)	Secondar Surfa Drain Dry-S Crayf X Saturt Stunt X Geon	y Indicator ce Soil Cra age Patter eason Wa ish Burrow ation Visib ed or Stres norphic Pos	Yes <u>s (minimum of</u> acks (B6) ns (B10) ter Table (C2) rs (C8) le on Aerial Im ssed Plants (D sition (D2) ot (D2)	<u>No</u>	X uired)
Restrictive I Type: Depth (ir Remarks: HYDROLO Wetland Hyd Primary Indic Surface V High Wa Saturatio Water M: Sedimen Drift Dep Algal Ma Iron Dep	GY drology Indicators: cators (minimum of one is required) Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) po Visible on Aerial Imageny (B	ired; check all that Water-Sta Aquatic F: True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck	apply) ined Lea auna (B1 atic Plant Sulfide C Rhizosph of Reduc n Reduc Surface	ives (B9) 3) s (B14) Ddor (C1 eres on ced Iron tion in T c (C7) c (D9)	) Living Ro (C4) illed Soil:	Hydric So bots (C3) s (C6)	Secondar Surfa Drain Dry-S Crayf X Satur Stunt X Geon FAC-	<u>y Indicator</u> ce Soil Cra age Patteri eason Wa ish Burrow ation Visib ed or Stres norphic Pos Neutral Tes	Yes rs (minimum of acks (B6) ns (B10) tter Table (C2) rs (C8) le on Aerial Im ssed Plants (D sition (D2) st (D5)	<u>No</u>	X uired) C9)

Inundation Visible on A	erial Imagery (I	B7) Gauge	or Well Data (D9)						
Sparsely Vegetated Co	ncave Surface	(B8) Other (	Explain in Remarks)						
Field Observations:									
Surface Water Present?	Yes	No <u>X</u>	Depth (inches):						
Water Table Present?	Yes	No X	Depth (inches):						
Saturation Present?	Yes	No X	Depth (inches):	Wetland Hydrology Present?	Yes X	No			
(includes capillary fringe)									
Describe Recorded Data (s	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarks:									

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Litchfield Solar				City/Co	ounty: Litchfield /	Montg	gomery	y Co.	Sampling Date:	11/12/2024
Applicant/Owner:	Carson Powe	r				Sta	ate:	IL	Sampling Point:	DP 4
Investigator(s): <u>O.</u> ⊢	ollander			Section,	, Township, Rang	e: <u>N</u>	S17 T	8N R5W		
Landform (hillside, t	errace, etc.): N	one			Local relief (cor	icave,	conve	x, none):	None	
Slope (%):	Lat: 39.1412	:32		Long:	-89.672104				Datum:	
Soil Map Unit Name	: Herrick-Biddle	∍-Piasa silt loan	ns (894A)				N١	WI classif	ication: N/A	
Are climatic / hydrol	ogic conditions	on the site typic	cal for this time of y	year?	Yes X	No		(If no, exp	lain in Remarks.)	
Are Vegetation	, Soil,	or Hydrology	significantly dis	sturbed?	Are "Normal Circ	cumsta	ances"	present?	Yes <u>X</u> No	o
Are Vegetation	, Soil,	or Hydrology	naturally proble	ematic?	(If needed, expla	ain any	/ answ	ers in Rer	marks.)	
SUMMARY OF	FINDINGS -	- Attach site	are showing	ı sampli	ing point loca	ations	s, tra	nsects,	, important fea	itures, etc.
Hydrophytic Veget	ation Present?	Yes	No X	ls th	ne Sampled Area	1				
Hydric Soil Presen	t?	Yes X	No	with	nin a Wetland?		Ye	es	No <u>X</u>	
Wetland Hydrology	/ Present?	Yes	No <u>X</u>							
Remarks:										
Upland, east of line	ear feature									
VEGETATION -	- Use scienti	fic names of	plants.							
Tree Stratum	(Plot size:	30)	Absolute / % Cover	Dominant Species?	Indicator Status	Domir	nance	Test wor	ksheet:	
1.	(11010.20.	,	/// 00101	0000000		Numbe			Species That	

	78 COver	Species	Status	Dominance res	worksn	eel.		
1.       2.				Number of Domir Are OBL, FACW	nant Spec , or FAC:	cies That	1	(A)
3. 4.				Total Number of Across All Strata	Dominan :	t Species	2	(B)
5		=Total Cover		Percent of Domir Are OBL, FACW,	ant Spec , or FAC:	cies That	50.0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15	)							
1			<u> </u>	Prevalence Inde	x works	neet:		
2				I otal % Cov	er of:	Mul	aply by:	_
3				OBL species	0	x1=	0	
4				FACW species	15	x 2 =	30	
5				FAC species	0	x 3 =	0	_
		=Total Cover		FACU species	0	x 4 =	0	
Herb Stratum (Plot size: 5)				UPL species	60	x 5 =	300	_
1. Zea mays	60	Yes	UPL	Column Totals:	75	(A)	330	(B)
2. Panicum dichotomiflorum	15	Yes	FACW	Prevalence Inc	dex = B//	4 =	4.40	_
3.								
4.				Hydrophytic Veg	getation	Indicators:		
5.				1 - Rapid Tes	st for Hyd	Irophytic Ve	getation	
6.				2 - Dominano	ce Test is	>50%	-	
7.				3 - Prevalence	e Index i	s ≤3.0 <sup>1</sup>		
8.				4 - Morpholo	aical Ada	ptations <sup>1</sup> (F	vrovide su	pporting
9				data in Re	marks or	on a separ	ate sheet	)
10				Problematic	Hydrophy	, tic Vegetat	ion <sup>1</sup> (Exp	, ain)
	75	-Total Cover						
Woody Vine Stratum (Plot size: 15	)			be present, unles	s disturb	ed or proble	nyarology ematic.	must
1				Hydrophytic				
2				Vegetation				
		=Total Cover		Present?	Yes	No	Х	
Remarks: (Include photo numbers here or on a separation	rate sheet.)							

ENG FORM 6116-7, FEB 2024

Corn crop recently harvested. Remnant stalks present.

SOIL	
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Profile Desc	ription: (Describe	to the depth	needed to doc	ument t	he indica	tor or	confirm the absend	ce of indicators.)		
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-40	10YR 3/1	95				М	Loamy/Clayey			
			10YR 5/6	5	С			Prominent redox concentrations		
<sup>1</sup> Type: C=Co	ncentration, D=Dep	letion, RM=R	educed Matrix, N	/IS=Mas	ked Sand	Grains	s. <sup>2</sup> Locat	ion: PL=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators:						Indica	tors for Problematic Hydric Soils <sup>3</sup> :		
Histosol (	A1)		Sandy Gle	yed Mat	rix (S4)		Irc	on-Manganese Masses (F12)		
Histic Epi	pedon (A2)		Sandy Red	dox (S5)			Re	ed Parent Material (F21)		
Black His	tic (A3)		Stripped M	latrix (Se	5)		Ve	ery Shallow Dark Surface (F22)		
Hydrogen	Sulfide (A4)		Dark Surfa	ice (S7)			O1	ther (Explain in Remarks)		
Stratified	Layers (A5)		Loamy Mu	cky Mine	eral (F1)					
2 cm Muc	:k (A10)		Loamy Gle	eyed Ma	trix (F2)					
Depleted	Below Dark Surface	e (A11)	Depleted N	Aatrix (F	3)					
Thick Dar	k Surface (A12)		X Redox Da	k Surfac	ce (F6)		<sup>3</sup> Indica	ators of hydrophytic vegetation and		
Sandy Mu	ucky Mineral (S1)		Depleted [	Dark Sur	face (F7)		wetland hydrology must be present,			
5 cm Mud	ky Peat or Peat (S3	3)	Redox Dep	pression	s (F8)		unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Pres	ent? Yes <u>X</u> No		
Remarks:										
HYDROLO	GY									
Wetland Hyd	rology Indicators:									
Primary Indic	ators (minimum of c	ne is required	d; check all that	apply)			Secon	dary Indicators (minimum of two required)		
Surface V	Vater (A1)		Water-Sta	ined Lea	aves (B9)		Su	urface Soil Cracks (B6)		
High Wat	er Table (A2)		Aquatic Fa	una (B1	3)		Dr	ainage Patterns (B10)		
Saturation	n (A3)		True Aqua	tic Plant	s (B14)		 Dr	y-Season Water Table (C2)		
Water Ma	arks (B1)		Hydrogen	Sulfide (	Odor (C1)		Cr	ayfish Burrows (C8)		
Sediment	Deposits (B2)		Oxidized F	Rhizosph	eres on L	iving R	oots (C3) Sa	aturation Visible on Aerial Imagery (C9)		
Drift Depo	osits (B3)		Presence	of Redu	ced Iron (	C4)	St	unted or Stressed Plants (D1)		
Algal Mat	or Crust (B4)		Recent Iro	n Reduc	tion in Til	led Soi	ls (C6) Ge	eomorphic Position (D2)		
Iron Depo	osits (B5)		Thin Muck	Surface	e (C7)		FA	AC-Neutral Test (D5)		
Inundatio	n Visible on Aerial I	magery (B7)	Gauge or	Well Dat	a (D9)					
Sparsely	Vegetated Concave	Surface (B8)	Other (Exp	olain in F	Remarks)					
Field Observ	ations:									
Surface Wate	er Present? Ye	S	No <u>X</u>	Depth (i	nches):					
Water Table	Present? Ye	S	No X	Depth (i	nches):					
Saturation Pr	esent? Ye	S	No X	Depth (i	nches):		Wetland Hydro	logy Present? Yes No X		
(includes cap	illary fringe)									
Describe Rec	orded Data (stream	gauge, moni	toring well, aeria	l photos	, previous	inspec	ctions), if available:			

Remarks:

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Litchfield Solar		City/Cou	nty: Litchfie	ld / Montgomery Co.	Sampling Date:	11/12/2024
Applicant/Owner: Carson Power				State: IL	Sampling Point:	DP 5
Investigator(s): O. Hollander		Section, 1	ownship, Ra	ange: N S17 T8N R5W		
Landform (hillside, terrace, etc.): None			Local relief (	concave, convex, none):	Vone	
Slope (%): Lat: 39.141232		Long: -	89.672104	[	Datum:	
Soil Map Unit Name: Herrick-Biddle-Piasa silt loams (	894A)			NWI classifi	cation: N/A	
Are climatic / hydrologic conditions on the site typical	for this time of y	/ear?	Yes X	No (If no, exp	lain in Remarks.)	
Are Vegetation . Soil . or Hydrology	significantly dis	turbed?	Are "Normal	Circumstances" present?	Yes X N	0
Are Vegetation Soil or Hydrology	naturally proble	ematic? (	If needed, ex	kolain any answers in Ren	narks.)	
SUMMARY OF FINDINGS – Attach site m	ap showing	samplin	ig point lo	ocations, transects,	important fea	atures, etc.
Hydrophytic Vegetation Present? Yes X N	0	Is the	Sampled A	rea		
Hydric Soil Present? Yes N	o X	withi	n a Wetland	? Yes	No <u>X</u>	
Wetland Hydrology Present? Yes N	0 <u>X</u>					
Remarks:						
In similarly situated area to the linear feature, along r	north Site bound	lary				
<b>VEGETATION</b> – Use scientific names of pla	ants.					
Tree Stratum (Plot size: 30 )	Absolute I % Cover	Dominant Species?	Indicator Status	Dominance Test wor	ksheet:	
<u> </u>		•		Number of Dominant S	Species That	
2.				Are OBL, FACW, or F	AC:	2 (A)
3				Total Number of Domi	nant Species	
4				Across All Strata:		3 (B)
5		atal Cavar		Percent of Dominant S	pecies That	C 70/ (A/D)
Sanling/Shrub Stratum (Plot size: 15	)=			Ale OBL, FACW, OFF	1C. <u>0</u>	5.7% (A/D)
1.	/			Prevalence Index wo	rksheet:	
2.				Total % Cover of:	Multiply	y by:
3.				OBL species 0	x 1 =	0
4				FACW species 10	x 2 =	20
5				FAC species 50	x 3 =	150
Horb Stratum (Diat aiza: E)	=I	otal Cover		FACU species 40	x 4 =	160
1. Poa pratensis	30	Yes	FAC	Column Totals: 100	(A)	330 (B)
2. Setaria pumila	20	Yes	FAC	Prevalence Index =	= B/A = 3.30	) )
3. Trifolium pratense	20	Yes	FACU			
4. Taraxacum officinale	15	No	FACU	Hydrophytic Vegetati	on Indicators:	
5. Panicum dichotomiflorum	10	No	FACW	1 - Rapid Test for	Hydrophytic Veget	tation
6. Amaranthus palmeri	5	No	FACU	X 2 - Dominance Te	st is >50%	
/				3 - Prevalence Ind	ex is $\leq 3.0^{\circ}$	ido cupporting
9.				data in Remarks	s or on a separate	sheet)
10.	<u> </u>			Problematic Hvdro	phytic Vegetation	<sup>1</sup> (Explain)
	100 =T	otal Cover		<sup>1</sup> Indicators of hydric so	il and wetland hvo	rology must
Woody Vine Stratum (Plot size: 15	)			be present, unless dist	urbed or problema	atic.
1				Hydrophytic		
2				Vegetation		
	=T	otal Cover		Present? Yes	<u> </u>	_
Remarks: (Include photo numbers here or on a sepa	arate sheet.)					

SOIL	
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Profile Des	cription: (Describe Matrix	to the dep	oth needed to doc	ument t	he indica	ator or	confirm the absen	ce of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Tvpe <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-42	10YR 3/1	100				M	Loamy/Clavey	
12-16	10VR 4/1	60						
42-40	10117 4/1	00	10VD 2/1	- 20		N	LUamy/Clayey	
	·	· ·	10YK 3/1	38		IVI		
	·		10YR 5/6	2	С			Prominent redox concentrations
		· ·						
<sup>1</sup> Type: C=C	concentration, D=Dep	letion, RM	=Reduced Matrix, I	√S=Mas	ked San	d Grains	s. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Ir	on-Manganese Masses (F12)
Histic E	pipedon (A2)		Sandy Re	dox (S5)			R	Red Parent Material (F21)
Black H	istic (A3)		Stripped N	Aatrix (Se	6)		V	ery Shallow Dark Surface (F22)
Hydroge	en Sulfide (A4)		Dark Surfa	ace (S7)			C	Other (Explain in Remarks)
Stratifie	d Layers (A5)		Loamy Mu	icky Mine	eral (F1)			
2 cm Mi	uck (A10)	(	Loamy Gl	eyed Ma	trix (F2)			
Deplete	d Below Dark Surface	∋ (A11)	Depleted I	Matrix (F	3)		3	
Thick D	ark Surface (A12)		Redox Da	rk Surfac	ce (F6)		Indic	ators of hydrophytic vegetation and
Sandy N	/lucky Mineral (S1)		Depleted	Dark Sur	face (F7)	)	W	vetland hydrology must be present,
5 cm Mi	ucky Peat or Peat (St	3)	Redox De	pression	ls (⊦8)		u	nless disturbed or problematic.
Restrictive	Layer (if observed):							
Туре:								
Depth (i	nches):						Hydric Soil Pres	sent? Yes <u>No X</u>
Remarks:								
HYDROLO	DGY							
Wetland Hy	drology Indicators:							
Primary Indi	cators (minimum of c	one is requ	ired; check all that	apply)			Secor	ndary Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ined Lea	aves (B9)		s	Surface Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fa	auna (B1	3)		D	Prainage Patterns (B10)
Saturati	on (A3)		True Aqua	atic Plant	ts (B14)		D	Dry-Season Water Table (C2)
Water M	1arks (B1)		Hydrogen	Sulfide (	Odor (C1	)	C	Crayfish Burrows (C8)
Sedime	nt Deposits (B2)		Oxidized F	Rhizosph	neres on	Living R	loots (C3) S	aturation Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence	of Redu	ced Iron	(C4)	s	tunted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Irc	on Reduc	tion in T	illed Soi	ls (C6)G	Geomorphic Position (D2)
Iron Dep	oosits (B5)		Thin Muck	Surface	e (C7)		F	AC-Neutral Test (D5)

Iron Deposits (B5)		Thin Mu	ck Surface (C7)	FAC-Neutral Test (D5)				
Inundation Visible on A	erial Imagery (	B7) Gauge d	or Well Data (D9)					
Sparsely Vegetated Co	ncave Surface	(B8) Other (E	xplain in Remarks)					
Field Observations:								
Surface Water Present?	Yes	No X	Depth (inches):					
Water Table Present?	Yes	No X	Depth (inches):					
Saturation Present?	Yes	No X	Depth (inches):	Wetland Hydrology Present? Yes	<u>No X</u>			
(includes capillary fringe)								
Describe Recorded Data (s	tream gauge, r	monitoring well, ae	rial photos, previous insp	pections), if available:				
Remarks:								

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Litchfie	ald Solar	City/Cour	nty: Litchfield / M	ontgomer	y Co.	Sampling Date:	11/12/2024
Applicant/Owner:	Carson Power			State:	IL	Sampling Point:	DP 6
Investigator(s): O. H	ollander	Section, T	ownship, Range:	N S17 T	8N R5W		
Landform (hillside, t	errace, etc.): None	I	Local relief (conca	ve, conve	x, none):	None	
Slope (%):	Lat: <u>39.141232</u>	Long: _{	89.672104			Datum:	
Soil Map Unit Name	: Herrick-Biddle-Piasa silt loams (894A)			N	WI classif	ication: N/A	
Are climatic / hydrol	ogic conditions on the site typical for this time of ye	ear?	Yes <u>X</u> No	<u></u> د	(If no, exp	lain in Remarks.)	
Are Vegetation	_, Soil, or Hydrologysignificantly dist	urbed? A	Are "Normal Circur	nstances"	present?	Yes <u>X</u> No	0
Are Vegetation	_, Soil, or Hydrology naturally problem	matic? (I	If needed, explain	any answ	ers in Rer	marks.)	
SUMMARY OF	FINDINGS – Attach site map showing	samplin	ıg point locati	ons, tra	insects,	, important fea	itures, etc.
Hydrophytic Vegeta Hydric Soil Presen Wetland Hydrology	ation Present? Yes X No t? Yes X No / Present? Yes X No	Is the withir	Sampled Area	Y	es_X_	No	
Remarks: In northeast, Wetla	ind A	_					
VEGETATION -	- Use scientific names of plants.						
Tree Stratum	(Plot size: 30 ) Absolute C (Plot size: 30 ) % Cover S	ominant Species?	Indicator Status Do	ominance	Test wor	ksheet:	
1. 2.			Nu	imber of D e OBL, FA	)ominant § \CW, or F	Species That	<u>2</u> (A)
3					(	· · · · ·	

					e / .e.	-		_ (* *)
3. 4.				Total Number of I Across All Strata:	Dominan	t Species	3	(B)
5 Sapling/Shrub Stratum (Plot size: 15	)	=Total Cover		Percent of Domin Are OBL, FACW,	ant Spec or FAC:	vies That -	66.7%	_(A/B)
1.	/			Prevalence Index	x works	heet:		
2.				Total % Cove	er of:	Mu	ltiply by:	
3.				OBL species	0	x 1 =	0	-
4.				FACW species	30	x 2 =	60	-
5.				FAC species	30	x 3 =	90	-
		=Total Cover		FACU species	40	x 4 =	160	-
Herb Stratum (Plot size: 5 )		_		UPL species	0	x 5 =	0	-
1. Setaria pumila	30	Yes	FAC	Column Totals:	100	(A)	310	(B)
2. Panicum dichotomiflorum	30	Yes	FACW	Prevalence Ind	ex = B/A	۹ =	3.10	_
3. Amaranthus palmeri	30	Yes	FACU		_			
4. Digitaria sanguinalis	10	No	FACU	Hydrophytic Veg	etation	Indicators	:	
5				1 - Rapid Tes	t for Hyc	Irophytic V	egetation	
6				X 2 - Dominanc	e Test is	; >50%		
7				3 - Prevalenc	e Index i	s ≤3.0 <sup>1</sup>		
8.				4 - Morpholog	gical Ada	ptations <sup>1</sup> (	Provide su	pporting
9.				data in Rer	marks or	on a sepa	rate sheet	)
10				Problematic H	Hydrophy	/tic Vegeta	tion <sup>1</sup> (Expl	ain)
Woody Vine Stratum (Plot size: 15	100	=Total Cover		<sup>1</sup> Indicators of hyd be present, unless	ric soil a s disturb	nd wetland ed or probl	hydrology ematic.	<sup>,</sup> must
1				Hydrophytic				
		=Total Cover		Present?	/es_X	No		
Remarks: (Include photo numbers here or on a sena	rate sheet	)		•				

Remarks: (Include photo numbers here or on a separate sheet.) Corn crop recently harvested. Remnant stalks present.

SOIL	
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Profile Des	cription: (Descri	ibe to the dep	th needed to doo	ument t	he indic	ator or	confirm the absence	of indicators.)	
Depth	Matri	x	Redo	ox Featur	es				
(inches)	Color (moist)	) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-8	10YR 2/1	100				М	Loamy/Clayey		
8-20	2.5Y 5/2	85			D	М	Loamy/Clayey		
			2.5Y 5/6	15	C			Prominent redox concentrations	
			2.01.0,0						
	·								
	·								
	· .								
<sup>1</sup> Type: C=C	concentration, D=	Depletion, RM	=Reduced Matrix,	MS=Mas	ked San	d Grains	s. <sup>2</sup> Location	: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicator	s for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Sandy Glo	eyed Mat	rix (S4)		Iron-I	Manganese Masses (F12)	
Histic E	pipedon (A2)		Sandy Re	dox (S5)			Red I	Parent Material (F21)	
Black H	istic (A3)		Stripped M	Matrix (Se	6)		Very	Shallow Dark Surface (F22)	
Hydroge	en Sulfide (A4)		Dark Surf	ace (S7)			Othe	r (Explain in Remarks)	
Stratifie	d Layers (A5)		Loamy Mi	ucky Mine	eral (F1)				
	uck (A10)		Loamy G	eyed Ma	trix (F2)				
X Depieter	d Below Dark Sun	race (A11)	X Depleted	Matrix (F	3) (FC)		31		
Thick Dark Surface (A12)			Redox Da	Irk Surrac	се (го) face (Г7	<b>`</b>	Indicators of hydrophytic vegetation and		
Sandy Mucky Mineral (S1)			Depieted	Dark Sur		)	unless disturbed or problematic		
	ucky real of real	(33)		pression	S (FO)		unies	s disturbed of problematic.	
Restrictive	Layer (if observe	ed):							
Type:							Ubudaia Osil Dassard		
Depth (I	ncnes):						Hydric Soll Present	? Yes <u>×</u> No	
Remarks:									
HIDROLU	JGT								
Wetland Hy	drology Indicato	rs:							
Primary Indi	Notes (MINIMUM)	of one is requi	red; check all that	apply)			<u>Secondar</u>	ry Indicators (minimum of two required)	
X Surface	vvater (A1)			ained Lea	aves (B9)		Suria	ice Soll Cracks (B6)	
A High Wa	ater Table (A2) $(A2)$			auna (B1	3) (P14)			lage Patterns (BTU)	
Saturation	Un (AS) Aarks (B1)		Hydrogen	Sulfide (	.5 (D14) Odor (C1	)	Dry-c	fish Burrows (C8)	
	nt Deposite (B2)			Phizoenh		) Livina P		ration Visible on Aerial Imageny (CQ)	
Drift Der	(B3)		Presence	of Reduc	red Iron	(C.4)	Stunt	red or Stressed Plants (D1)	
Algal Ma	at or Crust (B4)		Recent Ire	on Reduc	tion in T	illed Soi	ls (C6) X Geor	norphic Position (D2)	
Iron Der	posits (B5)		Thin Mucl	k Surface	e (C7)		FAC-	Neutral Test (D5)	
Inundati	on Visible on Aeri	al Imagery (B	7) Gauge or	Well Dat	a (D9)				
Sparsel	y Vegetated Conc	ave Surface (I	38) Other (Ex	plain in F	Remarks)	)			
Field Obser	rvations:		/ <u> </u>		,				
Surface Wa	ter Present?	Yes X	No	Depth (i	nches):	3			
Water Table	Present?	Yes X	No	Depth (i	nches):	3			
Saturation F	Present?	Yes X	No	Depth (i	nches):	6	Wetland Hydrolog	gy Present? Yes X No	
(includes ca	pillary fringe)				· -				
Describe Re	ecorded Data (stre	am gauge, mo	onitoring well, aeria	al photos	. previou	s inspe	ctions), if available:		

Remarks:

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Litchfield Solar	City/Co	ounty: Litchf	ield / Montgomery Co.	Sampling Date:	11/12/2024
Applicant/Owner: Carson Power			State: IL	Sampling Point:	DP 7
Investigator(s): O. Hollander	Section	, Township, I	Range: N S17 T8N R5W		
Landform (hillside, terrace, etc.): None		Local relief	(concave, convex, none):	None	
Slope (%): Lat: <u>39.141232</u>	Long:	-89.672104		Datum:	
Soil Map Unit Name: Herrick-Biddle-Piasa silt loams (894A)			NWI classi	fication: N/A	
Are climatic / hydrologic conditions on the site typical for this t	ime of year?	Yes X	No (If no, exp	plain in Remarks.)	
Are Vegetation , Soil , or Hydrology signification	antly disturbed?	Are "Norma	I Circumstances" present?	'Yes X N	0
Are Vegetation , Soil , or Hydrology natural	y problematic?	(If needed,	explain any answers in Re	marks.)	
SUMMARY OF FINDINGS – Attach site map sh	owing sampl	ing point	locations, transects	, important fea	itures, etc.
Hydrophytic Vegetation Present?       Yes       No       X         Hydric Soil Present?       Yes       X       No       X         Wetland Hydrology Present?       Yes       No       X	ls th with	ne Sampled nin a Wetlan	Area d? Yes	No <u>X</u>	
Remarks: Upland, north of Wetland A in access drive					
<b>VEGETATION</b> – Use scientific names of plants.					
Abso <u>Tree Stratum</u> (Plot size: <u>30</u> ) % Co	olute Dominant over Species?	Indicator Status	Dominance Test wo	rksheet:	
1			Number of Dominant	Species That	
2			Are OBL, FACW, or F	AC:	1(A)
4.			Total Number of Dom     Across All Strata:	inant Species	3 (B)
5.			Percent of Dominant	Species That	<u> </u>
Sanling/Shruh Stratum (Plot size: 15)	=Total Cove	er	Are OBL, FACW, or F	<sup>-</sup> AC: <u>3</u>	3.3% (A/B)
1.			Prevalence Index wo	orksheet:	
2.		_	Total % Cover of	f: Multiply	/ by:
3.			OBL species 0	) x 1 =	0
4			FACW species 0	) x 2 =	0
5			FAC species 4	0 x 3 =	120
Lierh Chreture (Dist size: 5 )	=Total Cove	er	FACU species 6	$0 \times 4 = 2$	240
<u>Helb Stratum</u> (Piot size. <u>5</u> )		FAC	Column Totals: 10	$(\Delta)$	0 360 (B)
2. Taraxacum officinale 20	0 Yes	FACU	Prevalence Index	= B/A = 3.60	)
3. Plantago lanceolata 20	0 Yes	FACU	•		
4. Trifolium pratense 15	5 No	FACU	Hydrophytic Vegetat	ion Indicators:	
5. Digitaria sanguinalis 5	o No	FACU	1 - Rapid Test for	Hydrophytic Veget	tation
6			2 - Dominance Te	est is >50%	
7			3 - Prevalence In	dex is ≤3.0'	ido ou portina
o			data in Remark	Auaptations (Prov	sheet)
10.			Problematic Hydr	ophytic Vegetation	<sup>1</sup> (Explain)
Woody Vine Stratum (Plot cize: 15 )	0 =Total Cove	er	<sup>1</sup> Indicators of hydric s	oil and wetland hyd	lrology must
1.			be present, unless dis		
2.			- Hydropnytic Vegetation		

=Total Cover

Present?

Yes

Remarks: (Include photo numbers here or on a separate sheet.) Corn crop recently harvested. Remnant stalks present. No X

(inches)	<b>2 1 1 1 1</b>	·	Read		<del></del>	1 2		5		
(1101100)	Color (moist)	%	Color (moist)	%	Type	LOC-	Texture	Remarks		
0-16	10YR 2/1	100				М	Loamy/Clayey			
16-30	2.5Y 4/2	80			D	Μ	Loamy/Clayey			
			2.5Y 3/1	10		М				
			2.5Y 5/6	10	<u> </u>			Prominent redox concentrations		
<sup>1</sup> Type: C=Con	centration. D=Dep	letion. RM:	Reduced Matrix.	MS=Masl	ked Sand	Grains	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix,		
Hydric Soil In	dicators:	,	,				Indicators	s for Problematic Hydric Soils <sup>3</sup> :		
Histosol (A	<b>\</b> 1)		Sandy Gle	eyed Matr	rix (S4)		Iron-M	langanese Masses (F12)		
Histic Epip	bedon (A2)		Sandy Re	dox (S5)			Red F	Parent Material (F21)		
Black Histi	ic (A3)		Stripped N	Aatrix (S6	5)		Very S	Shallow Dark Surface (F22)		
Hydrogen	Sulfide (A4)		Dark Surfa	ace (S7)			Other	(Explain in Remarks)		
Stratified L	_ayers (A5)		Loamy Mu	ucky Mine	eral (F1)					
2 cm Muck	k (A10)		Loamy Gl	eyed Mat	rix (F2)					
Depleted E	Below Dark Surface	e (A11)	Depleted	Matrix (F3	3)					
X Thick Dark	c Surface (A12)	Redox Da	rk Surfac	e (F6)		<sup>3</sup> Indicators of hydrophytic vegetation and				
Sandy Mud	cky Mineral (S1)		Depleted	Dark Surf	ace (F7)		wetlar	wetland hydrology must be present,		
5 cm Muck	ky Peat or Peat (S3	3)	Redox De	pressions	s (F8)		unless	s disturbed or problematic.		
Restrictive La	ayer (if observed):									
Type:										
Depth (incl	hes):						Hydric Soil Present	? Yes <u>X</u> No		
	<u></u>									
TIDICOLOG										
Wetland Hydr	ology Indicators									
Wetland Hydr	ology Indicators:	one is requi	red: check all that	apply)			Secondary	/ Indicators (minimum of two required		
Wetland Hydr Primary Indica Surface W	rology Indicators: tors (minimum of o dater (A1)	one is requi	red; check all that Water-Sta	apply) ined Lear	ves (B9)		<u>Secondar</u> Surfac	/ Indicators (minimum of two required ce Soil Cracks (B6)		
Wetland Hydr Primary Indica Surface W High Wate	rology Indicators: tors (minimum of o 'ater (A1) er Table (A2)	one is requi	red; check all that Water-Sta Aquatic Fa	apply) iined Lea auna (B13	ves (B9) 3)		<u>Secondar</u> Surfac Draina	<u>/ Indicators (minimum of two requirec</u> ce Soil Cracks (B6) age Patterns (B10)		
Wetland Hydr <u>Primary Indica</u> Surface W High Wate Saturation	ology Indicators: tors (minimum of o dater (A1) Table (A2) (A3)	one is requi	red; check all that Water-Sta Aquatic Fa True Aqua	apply) iined Lea auna (B13 atic Plants	ves (B9) 3) s (B14)		<u>Secondan</u> Surfac Draina Dry-S	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2)		
Wetland Hydr <u>Primary Indica</u> Surface W High Wate Saturation Water Mar	rology Indicators: <u>tors (minimum of o</u> /ater (A1) er Table (A2) (A3) rks (B1)	one is requi	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen	apply) nined Lea auna (B13 atic Plants Sulfide C	ves (B9) 3) s (B14) Ddor (C1)		Secondar Surfac Draina Dry-S Crayfi	<u>v Indicators (minimum of two requirec</u> ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8)		
Wetland Hydr <u>Primary Indica</u> Surface W High Wate Saturation Water Mar Sediment I	rology Indicators: <u>itors (minimum of o</u> vater (A1) er Table (A2) (A3) rks (B1) Deposits (B2)	one is requi	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen	apply) lined Lea auna (B1 atic Plants Sulfide C Rhizosphe	ves (B9) 3) s (B14) Ddor (C1) eres on L	iving Ro	<u>Secondar</u> Surfac Draina Dry-S Crayfi oots (C3) Satura	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9)		
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Mar Cediment I Drift Depose	rology Indicators: tors (minimum of o dater (A1) Table (A2) (A3) rks (B1) Deposits (B2) sits (B3)	one is requ	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	apply) ined Lea auna (B1: atic Plants Sulfide C Rhizosphe of Reduc	ves (B9) 3) s (B14) Odor (C1) eres on L æd Iron (	iving Ro	<u>Secondan</u> Surfac Draina Dry-S Crayfi oots (C3) Satura	<u>y Indicators (minimum of two required</u> ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1)		
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat o	rology Indicators: tors (minimum of o vater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4)	ne is requi	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	apply) ained Lea auna (B1: atic Plants Sulfide C Rhizosphe of Reduc	ves (B9) 3) s (B14) Odor (C1) eres on L eres on L ced Iron ( tion in Til	iving Ro C4) led Soil	<u>Secondan</u> Surfac Draina Dry-S Crayfi oots (C3) Satura Stunte s (C6) Geom	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) iorphic Position (D2)		
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat of Iron Depos	rology Indicators: tors (minimum of o vater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	one is requi	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Inc	apply) nined Lea auna (B1: atic Plants Sulfide C Rhizosphe of Reduct n Reduct	ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron ( tion in Til (C7)	iving Ro C4) led Soil	oots (C3) Satura Surfac Draina Crayfi Stunte Stunte Stunte FAC-1	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) horphic Position (D2) Neutral Test (D5)		
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat o Iron Depos Inundation	rology Indicators: tors (minimum of o rater (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) v Visible on Aerial Ir	magery (B	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Ird Thin Muck	apply) nined Lea auna (B1: atic Plants Sulfide C Rhizosphe of Reduct n Reduct Surface Well Data	ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron ( tion in Til (C7) a (D9)	iving Ro C4) led Soil	Secondary Surfad Draina Dry-S Crayfi oots (C3) Sturte Sturte Sturte Store FAC-t	<u>v Indicators (minimum of two required</u> ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) torphic Position (D2) Neutral Test (D5)		
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat o Iron Depos Inundation Sparsely V	rology Indicators: tors (minimum of o (ater (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) Visible on Aerial Ir /egetated Concave	ne is requi magery (B Surface (I	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Thin Muck Other (Exp	apply) ined Lea auna (B1: atic Plants Sulfide C Rhizosphe of Reduct n Reduct c Surface Well Data plain in R	ves (B9) 3) s (B14) Ddor (C1) eres on L eres on L ered Iron ( tion in Til (C7) a (D9) emarks)	iving Ro C4) led Soil	<u>Secondan</u> Surfac Draina Dry-S Crayfi oots (C3) Satura Sturte Sturte Store FAC-1	<u>v Indicators (minimum of two required</u> ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)		
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Mar Sediment I Drift Depos Algal Mat of Iron Depos Inundation Sparsely V Field Observa	rology Indicators: tors (minimum of o (ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) visible on Aerial Ir /egetated Concave	me is requi magery (B <sup>-</sup> Surface (I	red; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Exp	apply) ined Lea auna (B1 atic Plants Sulfide C Rhizosphe of Reduct on Reduct Surface Well Data blain in R	ves (B9) 3) s (B14) Ddor (C1) eres on L æd Iron ( tion in Til (C7) a (D9) emarks)	iving Ro C4) Ied Soil	oots (C3) Satura Surfac Dry-S Crayfi Stunte (C6) Geom FAC-1	y Indicators (minimum of two required ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) torphic Position (D2) Neutral Test (D5)		

Wetland Hydrology Indicato	ors:							
Primary Indicators (minimum	of one is required		Secondary Indicators (minimum of two required)					
Surface Water (A1)			Water-S	Stained Leaves (B9)		Surface Soil Cracks (B6)		
High Water Table (A2)			Aquatic	Fauna (B13)		Drainage Patterns (B10)		
Saturation (A3)			True Aq	uatic Plants (B14)		Dry-Season Water Table (C2)		
Water Marks (B1)			Hydroge	en Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)			Oxidized	d Rhizospheres on Living Roo	ots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)			Presenc	ce of Reduced Iron (C4)		Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)			Recent	Iron Reduction in Tilled Soils	(C6)	Geomorphic Position (D2)		
Iron Deposits (B5)			Thin Mu	ick Surface (C7)		FAC-Neutral Test (D5)		
Inundation Visible on Aer	ial Imagery (B7)		Gauge o	or Well Data (D9)				
Sparsely Vegetated Conc	ave Surface (B8)		Other (E	Explain in Remarks)				
Field Observations:								
Surface Water Present?	Yes	No	Х	Depth (inches):				
Water Table Present?	Yes	No	Х	Depth (inches):				
Saturation Present?	Yes	No X Depth (inches): Wetlan			Wetland	Hydrology Present? Yes <u>No X</u>		
(includes capillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarks:								

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

;;;;;;;;;;;;;.				
Project/Site: Litchfield Solar	City/County: Litchfie	eld / Montgomery Co.	Sampling Date:	11/12/2024
Applicant/Owner: Carson Power		State: IL	Sampling Point:	DP 1
Investigator(s): O. Hollander	Section, Township, R	ange: <u>N S17 T8N R5W</u>		
Landform (hillside, terrace, etc.): None	Local relief (	(concave, convex, none):	None	
Slope (%): Lat: 39.141232	Long: -89.672104		Datum:	
Soil Map Unit Name: Herrick-Biddle-Piasa silt loams (894A)		NWI classi	fication: N/A	
Are climatic / hydrologic conditions on the site typical for this tin	ne of year? Yes X	No (If no, exp	plain in Remarks.)	
Are Vegetation , Soil , or Hydrology significar	tly disturbed? Are "Normal	Circumstances" present?	Yes X No	)
Are Vegetation , Soil , or Hydrology naturally	problematic? (If needed, e	xplain any answers in Re	marks.)	
SUMMARY OF FINDINGS – Attach site map sho	wing sampling point l	ocations, transects	, important fea	tures, etc.
Hydrophytic Vegetation Present?       Yes       No       X         Hydric Soil Present?       Yes       X       No       No         Wetland Hydrology Present?       Yes       X       No       No	Is the Sampled A within a Wetland	Area I? Yes	No <u>X</u>	
Remarks: In western portion of linear feature				
VEGETATION – Use scientific names of plants.				
Absolu	te Dominant Indicator	Dominance Test wo	rksheet:	
1 (		Number of Dominant	Species That	
2		Are OBL, FACW, or F	AC:	0 (A)
3		Total Number of Dom	inant Species	(D)
4		Across All Strata:		<u>п</u> (В)
Conline/Chrub Stratum (Dist size: 15	=Total Cover	Are OBL, FACW, or F	AC: 0	. <u>0%</u> (A/B)
<u>Sapiing/Shrub Stratum</u> (Plot size. <u>15</u> )		Prevalence Index wo	orksheet:	
2.		Total % Cover of	: Multiply	by:
3.		OBL species 0	) x 1 =	0
4.		FACW species 1	0 x 2 =	20
5		FAC species 0	) x 3 =	0
	=Total Cover	FACU species 0	) x 4 =	0
Herb Stratum (Plot size: 5 )		UPL species 7	$0 \times 5 = 3$	350
1. Zea mays     70       2. Danisum diskatamitlarum     10		Column Lotals: 8	$\frac{0}{0}$ (A) $\frac{3}{4}$	370 (B)
2. Panicum dichotominorum 10		Prevalence index	= D/A = 4.03	)
4		Hydrophytic Vegetat	ion Indicators:	
5.		1 - Rapid Test for	Hydrophytic Veget	ation
6.		2 - Dominance Te	est is >50%	
7.		3 - Prevalence In	dex is ≤3.0 <sup>1</sup>	
8.		4 - Morphological	Adaptations <sup>1</sup> (Prov	ide supporting
9		data in Remark	s or on a separate	sheet)
10		Problematic Hydr	ophytic Vegetation <sup>1</sup>	(Explain)

80 =Total Cover

)

<sup>1</sup> Indicators of hydric soil and wetland hydrolog	y must
be present, unless disturbed or problematic.	

	Hydrophytic			
	Vegetation			
=Total Cover	Present?	Yes	No X	

Remarks: (Include photo numbers here or on a separate sheet.) Corn crop recently harvested. Remnant stalks present.

\_\_\_\_\_

(Plot size: 15

Woody Vine Stratum

1. 2.

SOIL	
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Profile Desc	ription: (Describe	to the depth	needed to doc	ument ti	ne indica	tor or	confirm the absence o	f indicators.)		
Depth	Matrix		Redo	x Featur	es	-				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-10	10YR 4/2	100			D	Μ	Loamy/Clayey			
10-24	2.5Y 4/1	85			D	М	Loamy/Clayey			
			10YR 5/6	15	С			Prominent redox concentrations		
		·								
		·					· · .			
17							21			
Hydric Soil	Indicators:	Netion, RIVI=R	educed Matrix, r	vis=iviasi	ked Sand	Grains	S. Location:	PL=Pore Lining, M=Matrix.		
Histosol	(A1)		Sandy Gle	wed Mat	rix (S4)		Iron-M	langanese Masses (F12)		
Histic Ep	ipedon (A2)		Sandy Re	dox (S5)			Red P	Parent Material (F21)		
Black His	stic (A3)		Stripped N	Aatrix (Se	5)		Verv S	Shallow Dark Surface (F22)		
Hvdroge	n Sulfide (A4)		Dark Surfa	ace (S7)	,		Other	(Explain in Remarks)		
Stratified	Layers (A5)		Loamy Mu	icky Mine	eral (F1)					
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)					
Depleted	Below Dark Surfac	e (A11)	X Depleted I	Matrix (F	3)					
Thick Da	rk Surface (A12)		Redox Da	rk Surfac	e (F6)		<sup>3</sup> Indicators	s of hydrophytic vegetation and		
Sandy M	ucky Mineral (S1)		Depleted I	Dark Sur	face (F7)		wetland hydrology must be present,			
5 cm Mu	cky Peat or Peat (S	3)	Redox De	pression	s (F8)		unless disturbed or problematic.			
Restrictive I	_ayer (if observed)									
Type:			_							
Depth (in	iches):		_				Hydric Soil Present?	? Yes <u>X</u> No		
HYDROLO	GY									
Wetland Hyd	drology Indicators:									
Primary Indic	ators (minimum of e	one is require	d; check all that	apply)			Secondary	/ Indicators (minimum of two required)		
Surface	Water (A1)		Water-Sta	ined Lea	ves (B9)		Surfac	ce Soil Cracks (B6)		
High Wa	ter Table (A2)		Aquatic Fa	auna (B1	3)		Draina	age Patterns (B10)		
Saturatio	n (A3)		True Aqua	tic Plant	s (B14)		Dry-Se	eason Water Table (C2)		
Water M	arks (B1)		Hydrogen	Sulfide C	Odor (C1)		Crayfi	sh Burrows (C8)		
Sedimen	t Deposits (B2)			Rhizosph	eres on L	Living R	loots (C3) X Satura	ation Visible on Aerial Imagery (C9)		
	OSIIS (B3)		Presence	of Reduc	ed Iron ( tion in Til	UC4)		ed of Stressed Plants (D1)		
	osite (B5)		Recent no			ieu Sui		Neutral Test (D5)		
	on Visible on Aerial I	magery (B7)	Gauge or	Well Dat	(C7) a (D9)			vedital rest (D3)		
Sparselv	Vegetated Concave	e Surface (B8	) Other (Exc	plain in R	emarks)					
Field Obser	vations:		/ <u> </u>							
Surface Wat	er Present? Ye	es	No X	Depth (in	nches):					
Water Table	Present? Ye	es	No X	Depth (ii	nches):					
Saturation P	resent? Ye	es	No X	Depth (i	nches):		Wetland Hydrolog	y Present? Yes X No		
(includes cap	oillary fringe)			. 、	<u> </u>					
Describe Re	corded Data (stream	gauge, mon	itoring well, aeria	al photos	previous	s inspe	ctions), if available:			
Remarks:										

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Litchfield	d Solar			City/Cou	nty: Litchfie	ld / Montgomery Co.	Sampling D	ate: 11/1	2/2024
Applicant/Owner:	Carson Power					State: IL	Sampling Po	oint:	DP 2
Investigator(s): O. Hol	llander			Section,	Fownship, Ra	ange: <u>N S17 T8N R</u>	5W		
Landform (hillside, ter	rrace, etc.): <u>No</u>	ne			Local relief (	concave, convex, nor	ne): None		
Slope (%):	Lat: 39.14123	12		Long: -	89.672104		Datum:		
Soil Map Unit Name:	Herrick-Biddle-	Piasa silt loam	s (894A)			NWI cla	assification: N/A		
Are climatic / hydrolog	gic conditions c	on the site typic	al for this time o	of year?	Yes X	No (If no,	explain in Remar	ks.)	
Are Vegetation	, Soil , o	r Hydrology	significantly	disturbed?	Are "Normal	Circumstances" prese	ent? Yes X	No	
Are Vegetation	, Soil , o	r Hydrology	naturally pro	blematic? (	If needed, ex	xplain any answers in	Remarks.)		—
SUMMARY OF F	INDINGS -	Attach site	map showii	ng samplir	ng point lo	ocations, transe	cts, important	feature	s, etc.
Hydrophytic Vegetati Hydric Soil Present?	ion Present?	Yes Yes X	No <u>X</u> No	ls the withi	e Sampled A n a Wetland	rea ? Yes	No_X		
Wetland Hydrology F	Present?	Yes	No <u>X</u>						
Remarks: Upland, north of linea	ar feature in N\	V portion of Sit	e						
VEGETATION -	Use scientifi	c names of	plants.						
Tree Stratum	(Plot size:	30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	worksheet:		
1 2		^				Number of Domina Are OBL, FACW,	ant Species That or FAC:	0	(A)
3. 4.						Total Number of D Across All Strata:	ominant Species	1	(B)
5				=Total Cover		Percent of Domina Are OBL, FACW,	ant Species That or FAC:	0.0%	(A/B)
Sapling/Shrub Stratu	<u>im</u> (Plot :	size: 15	)			Brovalance Index	workshoot		
1 2						Total % Cove	er of: Mu	ultiply by:	
3.					. <u> </u>	OBL species	0 x 1 =	0	-
4.						FACW species	0 x 2 =	0	_
5						FAC species	0 x 3 =	0	_
	<i></i>	_ 、		=Total Cover		FACU species	<u>0</u> x 4 =	0	-
Herb Stratum	(Plot size:	5)	60	Vee	וסו	UPL species	$\frac{60}{60}$ x 5 =	300	<b>–</b> (D)
1. <u>Zea mays</u>			00	res	UPL	Prevalence Ind	$\underline{B}$	5.00	- <sup>(D)</sup>
3.							<u> </u>	0.00	-
4.						Hydrophytic Veg	etation Indicators	5:	
5.						1 - Rapid Tes	t for Hydrophytic V	egetation/	
6.						2 - Dominance	e Test is >50%		
7					·	3 - Prevalence	Index is ≤3.0'	(Drovido ou	n n ortin a
8						data in Ren	narks or on a sepa	arate sheet	pporting )
9 10						Problematic F	lydrophytic Veget:	ation <sup>1</sup> (Expl	, lain)
Woody Vine Stratum	<u>n</u> (Plot :	size: 15	) 60	=Total Cover		<sup>1</sup> Indicators of hydr be present, unless	ic soil and wetland disturbed or prob	d hydrology elematic.	<sup>v</sup> must
1						Hydrophytic			
2.						Vegetation			
				=Total Cover		Present? Y	es No	X	
Remarks: (Include r	hoto numbers	here or on a se	eparate sheet.)						

Corn crop recently harvested. Remnant stalks present.

SOIL	
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Profile Descri	ption: (Describe	to the dept	th needed to doc	ument th	ie indica	itor or o	confirm the absence	e of indicators.)	
(inchos)	Color (moist)	0/.	Color (moist)				Toxturo	Pomarka	
		100		70					
0-24	10 FK 4/2				<u> </u>				
	2.51 4/1	65		·		IVI	Loamy/Clayey		
			10YR 5/6	15	<u> </u>			Prominent redox concentrations	
<sup>1</sup> Type: C=Con	centration, D=Depl	letion, RM=	Reduced Matrix, N	√S=Mask	ced Sanc	I Grains	3. <sup>2</sup> Locatio	n: PL=Pore Lining, M=Matrix.	
Hydric Soil In	dicators:						Indicato	ors for Problematic Hydric Soils <sup>3</sup> :	
Histosol (A	.1)		Sandy Gle	yed Matr	ix (S4)		Iron	-Manganese Masses (F12)	
Histic Epip	edon (A2)		Sandy Re	dox (S5)			Red	l Parent Material (F21)	
Black Histi	c (A3)		Stripped N	/latrix (S6	.)		Very	y Shallow Dark Surface (F22)	
Hydrogen \$	Sulfide (A4)		Dark Surfa	ace (S7)			Oth	er (Explain in Remarks)	
Stratified L	ayers (A5).		Loamy Mu	ucky Mine	ral (F1)				
2 cm Muck	: (A10)		Loamy Gle	eyed Mat	rix (F2)				
Depleted B	selow Dark Surface	∍ (A11)	X Depleted	Matrix (F3	3)		3		
Thick Dark	Surface (A12)		Redox Da	rk Surfac	e (F6)		Indicators of hydrophytic vegetation and		
Sandy Muc	cky Mineral (S1)		Depleted I	Dark Surf	ace (F7)		wetl	and hydrology must be present,	
5 cm Muck	ty Peat or Peat (S3	3)	Redox De	pressions	ኑ (F8)		unle	ess disturbed or problematic.	
Restrictive La	yer (if observed):								
Туре:							I		
Depth (incl	nes):						Hydric Soil Preser	nt? Yes <u>X</u> No	
HYDROLOG	Y								
Wetland Hydro	ology Indicators:								
Primary Indicat	<u>tors (minimum of o</u>	ne is requi	red; check all that	apply)			Seconda	ary Indicators (minimum of two required)	
Surface W	ater (A1)		Water-Sta	ined Leav	ves (B9)		Sur	face Soil Cracks (B6)	
High Wate	r Table (A2)		Aquatic Fa	auna (B13	3)		Drai	inage Patterns (B10)	
Saturation	(A3)		True Aqua	atic Plants	s (B14)		Dry-	-Season Water Table (C2)	
Water Mar	ks (B1)		Hydrogen	Sulfide C	dor (C1)	)	Cray	yfish Burrows (C8)	
Sediment I	Deposits (B2)		Oxidized F	Rhizosphe	eres on L	iving R	oots (C3) Satu	uration Visible on Aerial Imagery (C9)	
Drift Depos	sits (B3)		Presence	of Reduc	ed Iron (	C4)	Stur	nted or Stressed Plants (D1)	
Algal Mat o	or Crust (B4)		Recent Iro	n Reduct	ion in Til	led Soil	ls (C6) Geo	omorphic Position (D2)	
Iron Depos	sits (B5)	(5-	Thin Muck	Surface	(C7)		FAC	2-Neutral Test (D5)	
	Visible on Aeriai ir	magery (Br	Gauge or	Well Data	3 (D9)				
Sparsely v	egetated Concave	Surface (E	.8)Otner (⊏x	blain in K	emarks)		<del></del>		
Field Observa	tions:								
	Drocont? Vo		No X	Depth (ir	iches).				
Surface Water	riesent? re	.5							
Surface Water Water Table P	resent? Ye	:S		Depth (ir	1ches):				
Surface Water Water Table P Saturation Pres	resent? Ye sent? Ye	:S	No X No X	Depth (ir Depth (ir	iches):		Wetland Hydrold	ogy Present? Yes <u>No X</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: