



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

WATER OF THE STATE DETERMINATION

VIA ELECTRONIC MAIL:

PROJECT NO.: 2023-99-44-EJW-Q
PROJECT NAME: Topeka Subdivision
AUTHORITY: 327 IAC 17-1-3(13), 327 IAC 17-1-3(17)
DATE OF ISSUANCE: April 21, 2023
DATE OF EXPIRATION: April 21, 2028

APPROVED: _____

Brian Wolff, Branch Chief
Surface Water and Operations
Office of Water Quality

RESPONSIBLE PARTIES: Town of Topeka
Attn: Stewart Bender
124 E. Lake Street
Topeka, IN 46571

DELINEATOR(S): Ashlee Nichter
Earth Source, Inc.
14921 Hand Road
Fort Wayne, IN 46818

AGENT(S): Earth Source, Inc.
Attn: Ashlee Nichter

14921 Hand Road
Fort Wayne, IN 46818

DELINEATION DATE: October 20, 2022

DATE REPORT RECEIVED: February 6, 2023

TRACT LOCATION: LaGrange County

The project tract is approximately 50 acres and is located at North Main Street in Topeka, Indiana.

Latitude: 41.545287 Longitude: -85.534641

USACE ID: LRE-2022-00838-144-A22

CONCLUSIONS:

The Indiana Department of Environmental Management (IDEM) has reached the following conclusions about whether any Waters, as defined in 327 IAC 17-1-3(13), exist on the property. In accordance with 327 IAC 17-1-3(17) the department makes all isolated wetland determinations consistent with the Wetland Delineation Manual, Technical Report Y-87-1 of the United States Army Corps of Engineers.

SITE ID	ACRES	CLASS	FORESTED	EXEMPT / NO PERMIT REQUIRED	INDIANA CODE	REGULATED UNDER IC 13-18-22
Section I	0.67	1	No	Exempt	IC 13-11-2-74.5(a)(5)	No
Section II	0.58	N/A	No	No Permit Required	IC 13-18-22-1(d)	No

COMMENTS:

Section I is a non-forested Class 1 isolated wetland. Per IC 13-11-2-74.5(a)(5), Section I wetland is exempt from permitting.

Section II is an isolated cropland wetland. Per IC 13-18-22-1(d), isolated cropland wetlands do not require a permit for wetland impacts.

DISCLAIMER:

This determination is based upon the information provided in the above referenced delineation report and/or the above referenced field evaluation. This determination does not relieve the recipient from the responsibility of obtaining any permits or authorizations that may be required for this project or related activities from IDEM or any other agency or person. The project site and the associated construction may be subject to the Construction Stormwater General Permit (CSGP). The CSGP specifically addresses stormwater run-off and the pollutants associated with all land-disturbing activities of one acre or more. If applicable, permit coverage must be obtained prior to the initiation of land-disturbing activities. Please contact the IDEM Stormwater Program at Stormwat@idem.IN.gov or 317-233-1864 concerning obtaining permit coverage under the CSGP. You may also wish to contact the Indiana Department of Natural Resources at 317-232-4160, or toll free at 877-928-3755, concerning the possible requirement of a Natural Freshwater Lake or Construction in a Floodway Permit.

This determination does not:

- (1) authorize impacts or activities;
- (2) authorize any injury to persons or private property or invasion of other private rights, or any infringement of federal, state or local laws or regulations;
- (3) convey any property rights of any sort, or any exclusive privileges;
- (4) preempt any duty to obtain federal, state or local permits or authorizations required by law for the execution of the project or related activities; or
- (5) authorize changes in the plan design detailed in the application.

APPEALS PROCEDURES:

This decision may be appealed in accordance with IC 4-21.5, the Administrative Orders and Procedures Act. The steps that must be followed to qualify for review are:

1. You must petition for review in writing that states facts demonstrating that you are either the person to whom this decision is directed, a person who is aggrieved or adversely affected by the decision, or a person entitled to review under any law.
2. You must file the petition for review with the Office of Environmental Adjudication (OEA) at the following address:

Office of Environmental Adjudication

100 North Senate Avenue
IGCN Room N103
Indianapolis, IN 46204

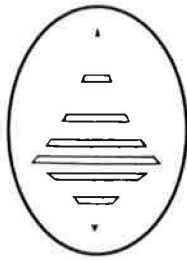
3. You must file the petition within eighteen (18) days of the mailing date of this decision. If the eighteenth day falls on a Saturday, Sunday, legal holiday, or other day that the OEA offices are closed during regular business hours, you may file the petition the next day that the OEA offices are open during regular business hours. The petition is deemed filed on the earliest of the following dates: the date it is personally delivered to OEA; the date that the envelope containing the petition is postmarked if it is mailed by United States mail; or, the date it is shown to have been deposited with a private carrier on the private carrier's receipt, if sent by private carrier.

Identifying the permit, decision, or other order for which you seek review by number, name of the responsible, location, or date of this notice will expedite review of the petition.

Note that if a petition for review is granted pursuant to IC 4-21.5-3-7, the petitioner will, and any other person may, obtain notice of any prehearing conferences, preliminary hearings, hearings, stays, and any orders disposing of the proceedings by requesting copies of such notices from OEA.

If you have procedural or scheduling questions regarding your Petition for Administrative Review, additional information on the review process is available at the website of the Office of Environmental Adjudication at <http://www.in.gov/oea>.

If you have any questions about this determination, contact Evan White by phone at 317-671-6698 or by e-mail at EVWhite@idem.in.gov.



Earth-Source Inc

Committed to Excellence in Land Stewardship & Design for over 30 years

Mr. Evan White
Indiana Department of Environmental Management
100 N. Senate Ave.
Mail Code 65-42
Indianapolis, IN 46204-2251

February 6, 2023

re: ACOE No.: LRE-2022-00838-144-A22
Topeka Subdivision
LaGrange County, Indiana

Dear Mr. White:

We are requesting a Waters of the State Determination for the Topeka Subdivision project site located in Topeka in Section 30 of Clearspring Township (Township 36 North, Range 8 East) of LaGrange County, Indiana. In accordance with IC-13-18, we are declaring wetland Section I and II as exempt isolated wetlands under clause IC-13-18-22-1(d)(1):

Section I is a 0.67-acre emergent wetland surrounding an excavated pond, which are both located within an active agricultural field. The pond was excavated prior to 1998 and was expanded between 2008 and 2010. The wetland was farmed in previous years with limited success. This portion of the site is currently in agricultural production and has been used for agricultural purposes for greater than 5 years prior to the wetland delineation. The wetland meets the definition of an exempt wetland under IC-13-18-22-1(d)(1) due to the development of cropland.

Section II is a 0.58-acre emergent wetland located within a depression in an agricultural field. This portion of the site was not in agricultural production in 2022, but has been in agricultural production and has been used for agricultural purposes for greater than 5 years prior to the wetland delineation. The wetland meets the definition of an exempt wetland under IC-13-18-22-1(d)(1) due to the development of cropland.

If we can be of any assistance or answer any questions regarding the project, please do not hesitate to contact us at your earliest convenience.

Sincerely,
Earth Source Inc.,


Ashlee N. Nichter
Environmental Scientist

Enclosures

14921 Hand Road, Fort Wayne, IN 46818 Phone (260) 489-8511 Fax (260) 489-8607

landscape architecture • land planning • wetland delineation, permitting & design
native seed nursery • ecological restoration • management



State Regulated Wetland Class Determination Worksheet

State Form 57155 (10-21)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM, Office of Water Quality
Wetlands Program
100 North Senate Avenue, Room 1255
Indianapolis, IN 46204

INSTRUCTIONS

- (1) Complete this form when conducting wetland delineations. One form should be completed for each wetland on-site.
- (2) If a wetland meets the definition for multiple wetland classes, the wetland will be classified according to the higher class.
- (3) Submit all completed forms with your wetland delineation and Approved Jurisdictional Determination or official U.S. Army Corps of Engineers correspondence when applying for Waters of the State Determinations or State Regulated Wetland Permits. Additional information regarding how to request Indiana Natural Heritage Data, including fees, required information, and timeframes, is available at <https://www.in.gov/dnr/nature-preserves/heritage-data-center/about-inhdc/>.

Questions regarding this form may be directed to:

Phone: (317) 233-8488 or
(800) 451-6027, ext. 38488 (within Indiana)

Program Email: WetlandsProgram@idem.IN.gov

Program Staff: <https://www.in.gov/idem/wetlands/>

Program Website:
<https://www.in.gov/idem/wetlands/>

Form Completed By:

First Name: Ashlee	Last Name: Nichter	Agent Affiliation (Company Name): Earth Source, Inc.
Phone Number: 260-489-8511	Email address: anichter@earthsourceinc.net	
Project Name: Topeka Subdivision	Wetland ID (per the wetland delineation): Section I	Wetland Size (Acres): 0.67

STATE REGULATED WETLAND CLASSIFICATION: Class I Class II Class III

Class III Assessment

(1) Is the wetland a listed rare or ecologically important type under IC 13-11-2-25.8(3)(B)? Yes No

If yes, please indicate:

- Acid Bog Acid Seep Circumneutral Bog Circumneutral Seep Cypress Swamp Dune and Swale
 Fen Forested Fen Forested Swamp Marl Beach Muck Flat Panne Sand Flat Sedge Meadow
 Shrub Swamp Sinkhole Pond Sinkhole Swamp Wet Floodplain Forest Wet Prairie Wet Sand Prairie

If yes, the Wetland is Class III. Check Class III at the top of the form and the form is now complete.

If no, proceed to Question (2).

(2) Does the wetland generally possess the presence of, or habitat for rare, threatened, or endangered species within a ½ mile radius according to the IDNR Natural Heritage Database **AND** the species uses the habitat for any stage of its life cycle? Yes No

If yes, the Wetland is Class III. Check Class III at the top of the form and the form is now complete.

If no, proceed to Question (3).

(3) Is the wetland in an undisturbed or minimally disturbed setting? Yes No

If yes, answer Question (4) and Question (5). If no, please provide a justification as an attachment to this form and proceed to the Wetland Habitat Functional Assessment.

(4) Does the wetland support more than minimal wildlife or aquatic habitat? Please complete the Habitat Functional Assessment below. If yes, the Wetland is Class III. Yes No

(5) Does the wetland support more than minimal hydrological function? Please complete the Hydrology Functional Assessment below. If yes, the Wetland is Class III. Yes No

Please include any additional comments, justifications, and/or supporting documentation related to the Class III Assessment as a separate attachment appended to this form.

Any of the following scenarios indicate the Wetland is Class III:

- Checking 'Yes' for Question 1
- Checking 'Yes' for Question 2
- Checking 'Yes' for Question 3 and Question 4
- Checking 'Yes' for Question 3 and Question 5

Section I is an emergent wetland located within an active agricultural field. The wetland surrounds an excavated pond. The pond was excavated prior to 1998 (earliest available imagery) and was expanded between 2008 and 2010. The area around the pond was farmed with limited success in most years. The wetland was dominated by volunteer native species and invasive species, Reed Canary Grass.

If the Wetland is Class III, check Class III at the top of the form, complete the appropriate functional assessment on Page 2 (if applicable), and the form is now complete.

Wetland Habitat Functional Assessment:

(6) Does the wetland support moderate habitat? (see options below) Yes No

Checking yes also meets the requirements of Question 4.

One "Yes" response below is needed to show moderate habitat function.

Indicators of moderate habitat function:

- Species of Special Concern within a ½ mile radius of the wetland according to the IDNR Natural Heritage Database **AND** the listed species or a life cycle stage uses wetlands for habitat? Yes No
- Does the wetland provide habitat corridors between necessary habitat for mobile, state-listed species? Yes No
- Are there Important Bird Areas (IBA) mapped for the wetland or within a ½ mile radius? Yes No
<https://databasin.org/datasets/fdb91971a11d46d39661f0a56c3585ca/>
- Is the wetland dominated by native species? Yes No
Reed Canary Grass was dominate in the majority of the wetland.
- Does the wetland support multiple layers of species habitat (wading birds, dabblers, reptiles, amphibians, etc.)? Yes No
- Do Rapid Assessment Methods indicate that the wetland supports moderate habitat? Yes No
Indicate which method used:
- Are other moderate habitat indicators present (*Explain in Remarks*)? Yes No

Please include any additional comments, justifications, and/or supporting documentation related to the Wetland Habitat Functional Assessment as a separate attachment appended to this form.

Wetland Hydrology Functional Assessment:

(7) Does the wetland support moderate hydrological function? (see options below) Yes No

Checking yes also meets the requirements of Question 5.

Indicators of moderate hydrological function. At least one primary indicator or two secondary indicators are needed to show moderate hydrological function.

Primary Indicators:

- Wetland meets two or more primary hydrology indicators on the wetland determination data form.
- Wetland is located within a floodway or floodplain.
- Wetland position in the watershed is 1st-3rd order or 4th – 5th order if the substrate is sand or silt.
- Wetland possesses strong hydric soil indicators (gleyed matrix or >20% redox/mottles present).
- Wetland is located within a groundwater Wellhead Protection Area.
<https://www.in.gov/idem/cleanwater/information-about/groundwater-monitoring-and-source-water-protection/wellhead-protection-program/source-water-proximity-determination-tool/>

Secondary Indicators:

- Wetland is 0.75 acre or larger in size, indicating at least moderate water storage capacity.
- Dominant vegetation in wetland is highly adapted to prolonged inundation (FACW, OBL dominance).
- Wetland substrate is sand or silt, indicating higher hydraulic conductivity.
- Wetland is located within a highly developed landscape (>75% impervious surface in ½ mile radius).
- Parcel with wetland is bordered by development, roads, or impervious surfaces.
- Wetland is located within a drinking water Source Water Susceptibility Area.
- Wetland is located within a drinking water Source Water Assessment Area
- Other (*Explain in Remarks*)

Please include any additional comments, justifications and/or supporting documentation related to the Wetland Hydrology Functional Assessment as a separate attachment appended to this form.

Any of the following scenarios indicate the Wetland is Class II:

Only Checking 'Yes' to Question (6)

Only Checking 'Yes' to Question (7)

If the Wetland is Class II, check Class II at the top of the form, and the form is now complete.

If the Wetland is not Class III or Class II, check Class I at the top of the form and the form is now complete.

Supporting Guidance Documents:

- **State Regulated Wetlands:** <https://www.in.gov/idem/wetlands/information-about/isolated-wetlands-program/>



State Regulated Wetland Class Determination Worksheet

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM, Office of Water Quality
Wetlands Program
100 North Senate Avenue, Room 1255
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INSTRUCTIONS

- (1) Complete this form when conducting wetland delineations. One form should be completed for each wetland on-site.
- (2) If a wetland meets the definition for multiple wetland classes, the wetland will be classified according to the higher class.
- (3) Submit all completed forms with your wetland delineation and Approved Jurisdictional Determination or official U.S. Army Corps of Engineers correspondence when applying for Waters of the State Determinations or State Regulated Wetland Permits. Additional information regarding how to request Indiana Natural Heritage Data, including fees, required information, and timeframes, is available at <https://www.in.gov/dnr/nature-preserves/heritage-data-center/about-inhdc/>.

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Program Website:
<https://www.in.gov/idem/wetlands/>

Form Completed By:

First Name: Ashlee	Last Name: Nichter	Agent Affiliation (Company Name): Earth Source, Inc.
Phone Number: 260-489-8511	Email address: anichter@earthsourceinc.net	
Project Name: Topeka Subdivision	Wetland ID (per the wetland delineation): Section II	Wetland Size (Acres): 0.58

STATE REGULATED WETLAND CLASSIFICATION: Class I Class II Class III

Class III Assessment

(1) Is the wetland a listed rare or ecologically important type under IC 13-11-2-25.8(3)(B)? Yes No

If yes, please indicate:

- Acid Bog Acid Seep Circumneutral Bog Circumneutral Seep Cypress Swamp Dune and Swale
 Fen Forested Fen Forested Swamp Marl Beach Muck Flat Panne Sand Flat Sedge Meadow
 Shrub Swamp Sinkhole Pond Sinkhole Swamp Wet Floodplain Forest Wet Prairie Wet Sand Prairie

If yes, the Wetland is Class III. Check Class III at the top of the form and the form is now complete.
If no, proceed to Question (2).

(2) Does the wetland generally possess the presence of, or habitat for rare, threatened, or endangered species within a ½ mile radius according to the IDNR Natural Heritage Database AND the species uses the habitat for any stage of its life cycle? Yes No

If yes, the Wetland is Class III. Check Class III at the top of the form and the form is now complete.
If no, proceed to Question (3).

(3) Is the wetland in an undisturbed or minimally disturbed setting? Yes No

If yes, answer Question (4) and Question (5). If no, please provide a justification as an attachment to this form and proceed to the Wetland Habitat Functional Assessment.

(4) Does the wetland support more than minimal wildlife or aquatic habitat? Please complete the Habitat Functional Assessment below. If yes, the Wetland is Class III. Yes No

(5) Does the wetland support more than minimal hydrological function? Please complete the Hydrology Functional Assessment below. If yes, the Wetland is Class III. Yes No

Please include any additional comments, justifications, and/or supporting documentation related to the Class III Assessment as a separate attachment appended to this form.

Any of the following scenarios indicate the Wetland is Class III:

- Checking 'Yes' for Question 1
- Checking 'Yes' for Question 2
- Checking 'Yes' for Question 3 and Question 4
- Checking 'Yes' for Question 3 and Question 5

Section II is an emergent wetland located within a depression within in an agricultural field. This portion of the field was left fallow in 2022, but the was farmed every year prior to the wetland delienation. The wetland was dominated by volunteer native species.

If the Wetland is Class III, check Class III at the top of the form, complete the appropriate functional assessment on Page 2 (if applicable), and the form is now complete.

Wetland Habitat Functional Assessment:

(6) Does the wetland support moderate habitat? (see options below) Yes No

Checking yes also meets the requirements of Question 4.

One "Yes" response below is needed to show moderate habitat function.

Indicators of moderate habitat function:

- Species of Special Concern within a ½ mile radius of the wetland according to the IDNR Natural Heritage Database **AND** the listed species or a life cycle stage uses wetlands for habitat? Yes No
- Does the wetland provide habitat corridors between necessary habitat for mobile, state-listed species? Yes No
- Are there Important Bird Areas (IBA) mapped for the wetland or within a ½ mile radius? <https://databasin.org/datasets/fdb91971a11d46d39661f0a56c3585ca/> Yes No
- Is the wetland dominated by native species? **Dominated by volunteer native pieces.** Yes No
- Does the wetland support multiple layers of species habitat (wading birds, dabblers, reptiles, amphibians, etc.)? Yes No
- Do Rapid Assessment Methods indicate that the wetland supports moderate habitat? Yes No
Indicate which method used:
- Are other moderate habitat indicators present (*Explain in Remarks*)? Yes No

Please include any additional comments, justifications, and/or supporting documentation related to the Wetland Habitat Functional Assessment as a separate attachment appended to this form.

Wetland Hydrology Functional Assessment:

(7) Does the wetland support moderate hydrological function? (see options below) Yes No

Checking yes also meets the requirements of Question 5.

Indicators of moderate hydrological function. At least one primary indicator or two secondary indicators are needed to show moderate hydrological function.

Primary Indicators:

- Wetland meets two or more primary hydrology indicators on the wetland determination data form.
- Wetland is located within a floodway or floodplain.
- Wetland position in the watershed is 1st-3rd order or 4th – 5th order if the substrate is sand or silt.
- Wetland possesses strong hydric soil indicators (gleyed matrix or >20% redox/mottles present).
- Wetland is located within a groundwater Wellhead Protection Area. <https://www.in.gov/idem/cleanwater/information-about/groundwater-monitoring-and-source-water-protection/wellhead-protection-program/source-water-proximity-determination-tool/>

Secondary Indicators:

- Wetland is 0.75 acre or larger in size, indicating at least moderate water storage capacity.
- Dominant vegetation in wetland is highly adapted to prolonged inundation (FACW, OBL dominance).
- Wetland substrate is sand or silt, indicating higher hydraulic conductivity.
- Wetland is located within a highly developed landscape (>75% impervious surface in ½ mile radius).
- Parcel with wetland is bordered by development, roads, or impervious surfaces.
- Wetland is located within a drinking water Source Water Susceptibility Area.
- Wetland is located within a drinking water Source Water Assessment Area
- Other (*Explain in Remarks*)

Please include any additional comments, justifications and/or supporting documentation related to the Wetland Hydrology Functional Assessment as a separate attachment appended to this form.

Any of the following scenarios indicate the Wetland is Class II:

Only Checking 'Yes' to Question (6)

Only Checking 'Yes' to Question (7)

If the Wetland is Class II, check Class II at the top of the form, and the form is now complete.

If the Wetland is not Class III or Class II, check Class I at the top of the form and the form is now complete.

Supporting Guidance Documents:

- **State Regulated Wetlands:** <https://www.in.gov/idem/wetlands/information-about/isolated-wetlands-program/>



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, DETROIT DISTRICT
2422 VIRIDIAN DRIVE, SUITE # 200
SOUTH BEND, IN 46628-3489

February 2, 2023

Regulatory Branch
File No. LRE-2022-00838-144-A22

Stewart Bender
Town of Topeka
124 E. Lake Street
Topeka, Indiana 46571

Dear Stewart Bender:

This letter is in response to your request for a Corps of Engineers' (Corps) Approved Jurisdictional Determination (AJD) for the 50-acre Topeka Subdivision site at North Main Street in Topeka, Indiana (Section 30, Township 36 North, Range 8 East, LaGrange County). We recently inspected the property and determined that the wetlands and pond labeled Section I, Section II, and Pond 1 on the enclosed figure fall into a category of isolated wetlands that are not within the regulatory jurisdiction of the Corps of Engineers.

We still exercise regulatory authority over the discharge of dredged and/or fill material into all other waters of the United States, which can include certain isolated waters and wetlands. We will continue to make jurisdiction determinations on all waters of the United States, including wetlands, on a case-by-case basis. Although a Department of the Army permit may not be required in this instance, this determination does not relieve you of the responsibility to comply with applicable state law. We urge you to contact the Indiana Department of Environmental Management (IDEM) at (317) 233-8488 to determine the applicability of state law to your project. A copy of this letter is being forwarded on to the IDEM for its files.

Attached to this determination is an approved jurisdictional determination (AJD). If you are not in agreement with the AJD, you can make an administrative appeal under 33 CFR 331. We have enclosed a Notification of Administrative Appeals Options and Process and Request for Appeal form describing all of your appeals options regarding this AJD. If you accept the AJD, you do not need to sign and submit the appeals form. If you intend to appeal this determination, you must submit a completed RFA form to the Corps' Great Lakes and Ohio River Division (Division) office, preferably via E-Mail at katherine.a.mccafferty@usace.army.mil, or to the following address:

Katherine A. McCafferty
Regulatory Administrative Appeals Officer
U.S. Army Corps of Engineers,
Great Lakes and Ohio River Division
550 Main Street, Room 10780
Cincinnati, Ohio 45202-3222

For an RFA to be accepted we must determine that the RFA is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division office within 60 days of the date on the NAP sheet. If you decide to submit an RFA form, it must be received at the above address by April 2, 2023. Please do not submit an RFA form to the Division office if you do not object to the decision in this letter. You may contact the Appeals Review Officer at (513) 684-2699 and/or send a facsimile at (513) 684-2460.

This jurisdictional determination is valid for a period of five years from the date of this letter unless new information warrants revision of the delineation before the expiration date. Should you have any questions, please contact me at the above address, by E-Mail at Allison.M.Klement@usace.army.mil, or by telephone at (574) 232-1952 ext. 21965. In all communications, please refer to File Number LRE-2022-00838-144-A22.

We are interested in your thoughts and opinions concerning your experience with the Detroit District, Corps of Engineers Regulatory Program. If you are interested in letting us know how we are doing, you can complete an electronic Customer Service Survey from our web site at: <https://regulatory.ops.usace.army.mil/customer-service-survey/>. Alternatively, you may contact us and request a paper copy of the survey that you may complete and return to us by mail or fax. Thank you for taking the time to complete the survey, we appreciate your feedback.

Sincerely,

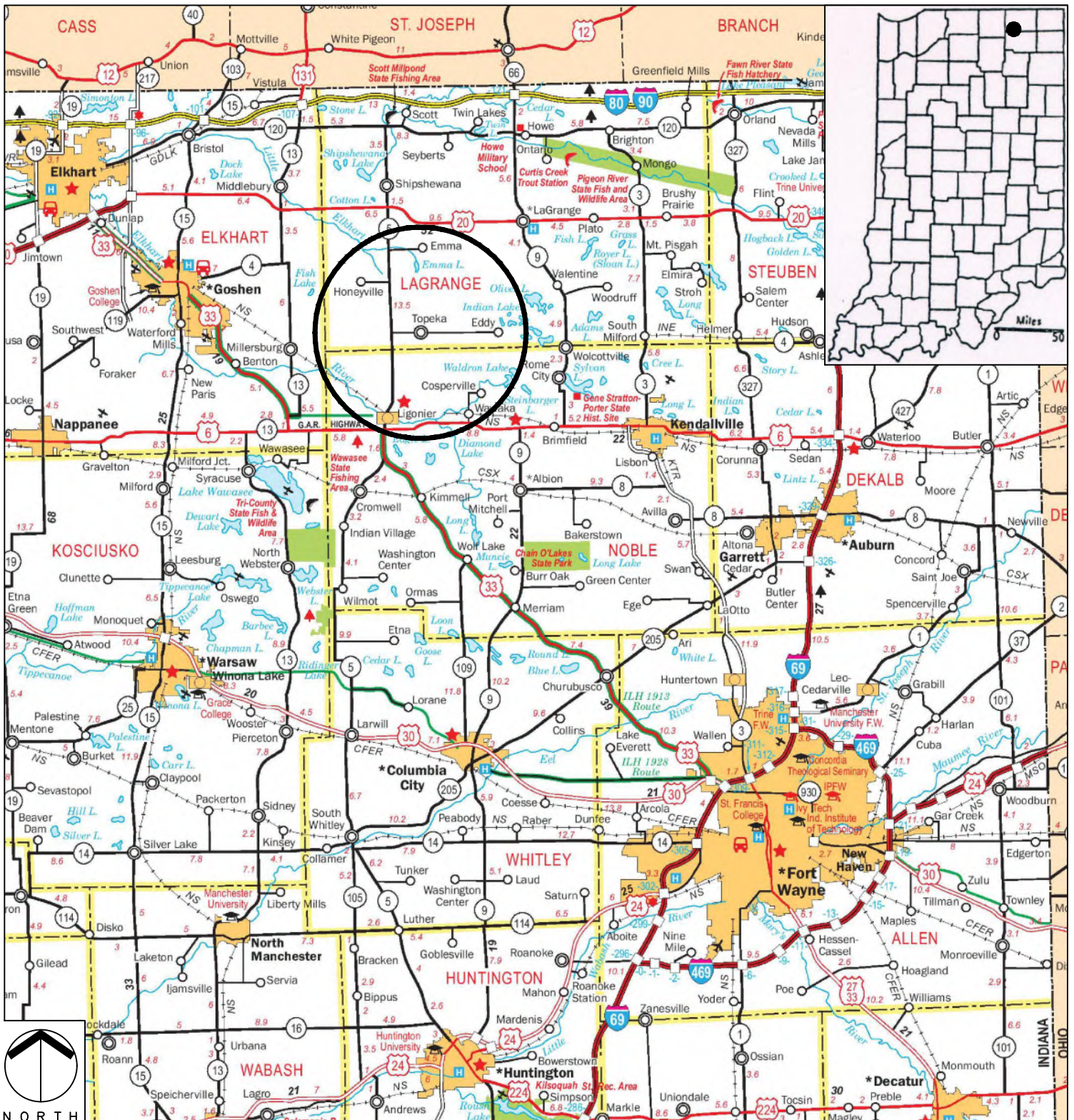


Allison M. Klement
Regulatory Project Manager
Michiana Section

Enclosure


Copy Furnished

IDEM, Office of Water Quality, White
IDNR, Division of Water, Smithers
Earth Source, Inc., Nichter



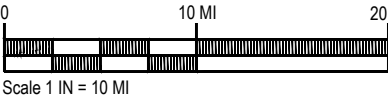
Project Name:
TOPEKA SUBDIVISION

Agent:



Earth-Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 Fax (260) 489-8607

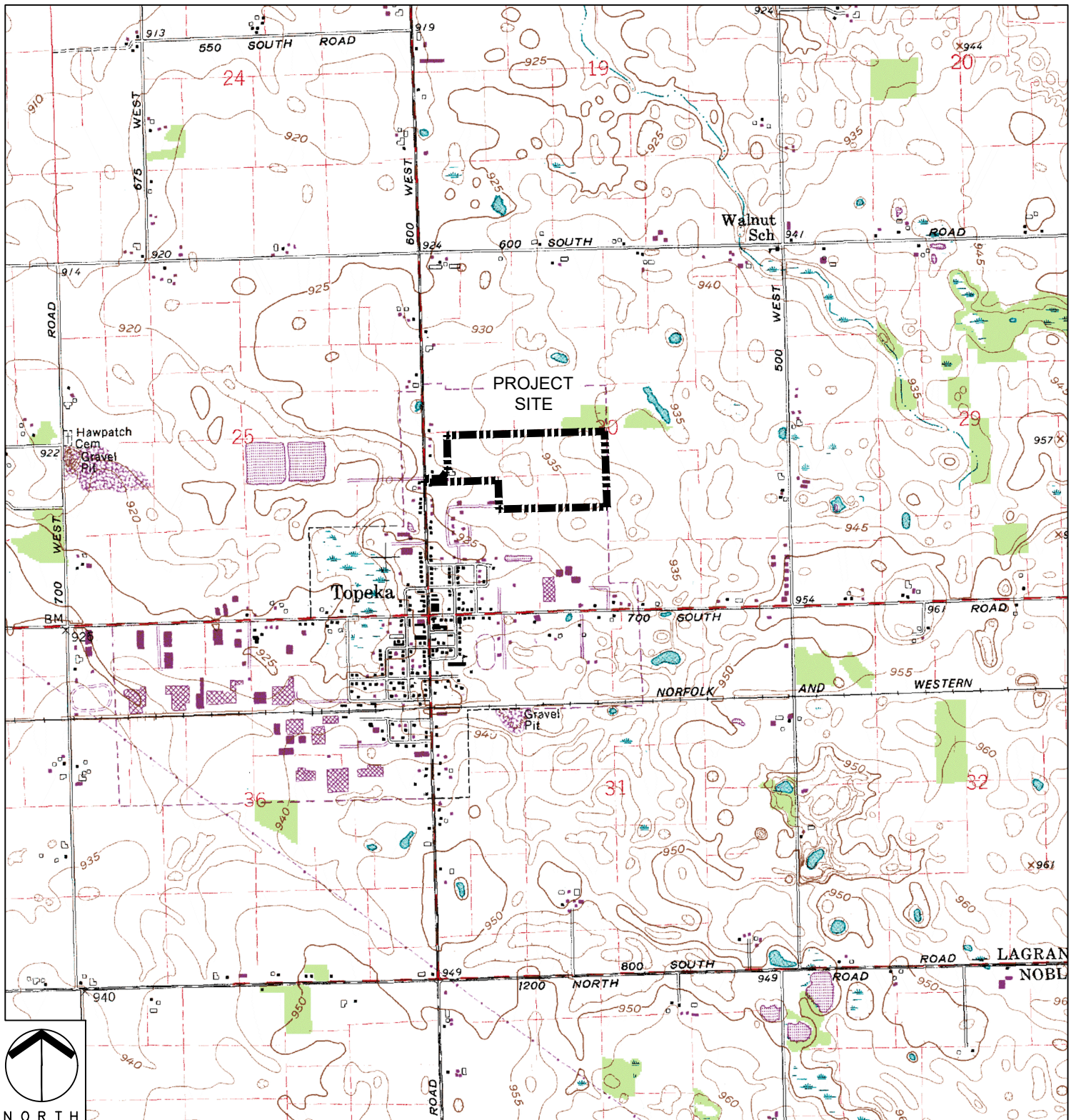
REGIONAL LOCATION MAP



Applicant:


TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571

State:		County:	
INDIANA		LAGRANGE	
Township Name:			
CLEARSPRING			
Township:	Range:	Section:	
T36N	R8E	SEC 30	
Quadrangle:			
TOPEKA (IN)			
Latitude/Longitude (WGS 84):			
41.545243°, -85.534121°			
Date:		Attachment:	
10-27-2022		T1	



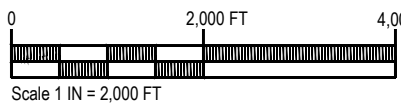
Project Name:
TOPEKA SUBDIVISION

Agent:



Earth-Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 Fax (260) 489-8607

PROJECT LOCATION MAP



Applicant:


TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571

State: INDIANA		County: LAGRANGE	
Township Name: CLEARSPRING			
Township: T36N	Range: R8E	Section: SEC 30	
Quadrangle: TOPEKA (IN)			
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°			
Date: 10-27-2022		Attachment: T2	



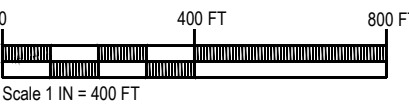
Project Name:
TOPEKA SUBDIVISION

Agent:



Earth-Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 Fax (260) 489-8607

WETLAND DELINEATION M AP

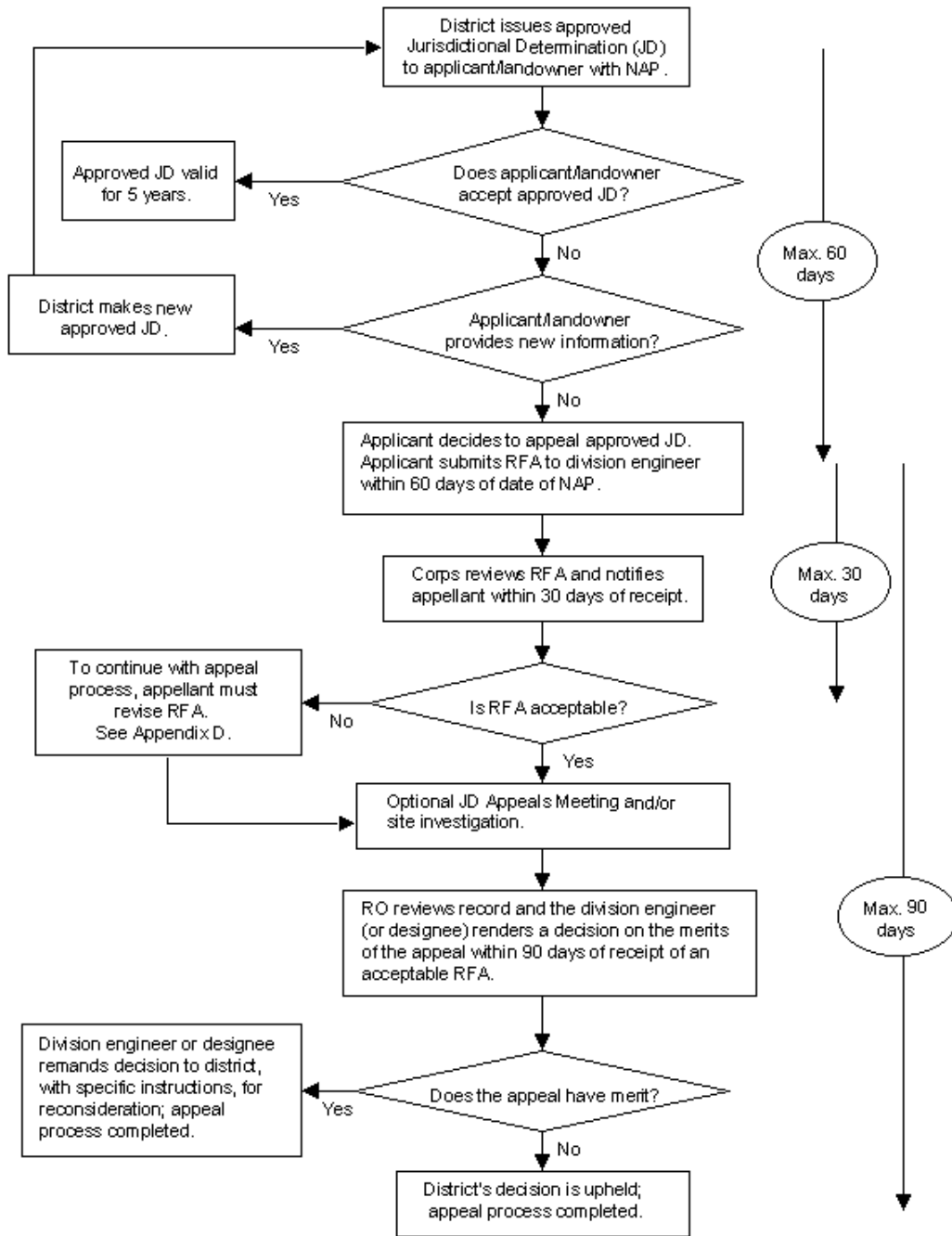


Applicant:

TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571

State: INDIANA		County: LAGRANGE
Township Name: CLEARSPRING		
Township: T36N	Range: R8E	Section: SEC 30
Quadrangle: TOPEKA (IN)		
Latitude/Longitude (WGS 84): 41.545243° , -85.534121°		
Date: 10-27-2022	Attachment: T6	

Administrative Appeal Process for Approved Jurisdictional Determinations



Appendix C

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND
REQUEST FOR APPEAL**

Applicant: Stewart Bender for
the Town of Topeka

File Number:
LRE-2022-00838-144-A22

Date:
February 2, 2023

Attached is:

See Section below

	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
	PERMIT DENIAL	C
X	APPROVED JURISDICTIONAL DETERMINATION	D
	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/cecw/pages/reg_materials.aspx or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

Allison Klement
U.S. Army Corps of Engineers
Regulatory Branch
2422 Viridian Drive, Suite # 200
South Bend, IN 46628-3489

(574) 232-1952 ext. 21965

If you only have questions regarding the appeal process you may also contact:

Katherine A. McCafferty
Regulatory Administrative Appeals Officer
U.S. Army Corps of Engineers,
Great Lakes and Ohio River Division
550 Main Street, Room 10780
Cincinnati, Ohio 45202-3222

e-mail: katherine.a.mccafferty@usace.army.mil

Tel. (513) 684-2699 Fax (513) 684-2460

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.

Date:

Telephone number:

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): February 2, 2023

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Detroit District, Regulatory Branch, Michiana Section, Topeka Subdivision JD, LRE-2022-00838-144-A22

C. PROJECT LOCATION AND BACKGROUND INFORMATION: North Main Street, Parcel ID 44-11-30-300-000.087-006

State: Indiana County/parish/borough: LaGrange City: Topeka

Center coordinates of site (lat/long in degree decimal format): Lat. 41.545349° N, Long. -85.53357° W.

Universal Transverse Mercator: Zone 16, X622308, Y 4600336

Name of nearest waterbody: Emma Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A

Name of watershed or Hydrologic Unit Code (HUC): 04050001 Great Lakes Region Southeastern Lake Michigan

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: January 13, 2023

Field Determination. Date(s): November 22, 2022

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are no** "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply):¹

- TNWs, including territorial seas
- Wetlands adjacent to TNWs
- Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
- Non-RPWs that flow directly or indirectly into TNWs
- Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
- Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
- Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
- Impoundments of jurisdictional waters
- Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: linear feet: width (ft) and/or acres.

Wetlands: acres.

c. Limits (boundaries) of jurisdiction based on: Pick List

Elevation of established OHWM (if known):

2. Non-regulated waters/wetlands (check if applicable):³

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

Explain: **The aquatic features Pond 1 and Wetland Section I represent a pond excavated out of an emergent wetland**

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

situated within a depression in the landscape. Pond 1 is 0.24 acres of open water resulting from excavation, the remaining emergent wetland (Section I) around the pond perimeter is 0.67 acres. The total acreage of the geographically isolated aquatic resource is 0.91 acres. Wetland Section I has been subject to recent agricultural activities (corn/soybean row crop farming). No surface water outlet or potential subsurface conveyance, such as a pipe or tile inlet was observed at Pond 1/Section I during the Corps site inspection on November 22, 2022. Wetland Section II is a 0.58 acre recently farmed (corn/soybean row crop) wetland situated within a depression in the landscape. No surface water outlet or potential subsurface conveyance, such as a pipe or tile inlet was observed at wetland Section II during the Corps site inspection on November 22, 2022. Prior to the January 2001 Supreme Court decision in "SWANCC," Pond 1, wetland Section I, and wetland Section II would have been regulated under a nexus to interstate/foreign commerce based solely on the "Migratory Bird Rule" (MBR). Based upon the Wetland Delineation Report, the Corps site inspection on November 22, 2022, and a review of applicable resource maps (as cited in Section IV of this form), Pond 1, wetland Section I, and wetland Section II are geographically and hydrologically isolated from a Relatively Permanent Water (RPW) and/or a Traditional Navigable Water (TNW) and are not considered jurisdictional waters of the United States..

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: _____ .

Summarize rationale supporting determination: _____ .

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is “adjacent”: _____ .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: **Pick List**

Drainage area: **Pick List**

Average annual rainfall: _____ inches

Average annual snowfall: _____ inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.

Project waters are **Pick List** river miles from RPW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Project waters are **Pick List** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: _____ .

Identify flow route to TNW⁵: _____ .

Tributary stream order, if known: _____ .

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b) General Tributary Characteristics (check all that apply):

- Tributary is:** Natural
 Artificial (man-made). Explain: _____
 Manipulated (man-altered). Explain: _____

Tributary properties with respect to top of bank (estimate):

- Average width: _____ feet
Average depth: _____ feet
Average side slopes: **Pick List**.

Primary tributary substrate composition (check all that apply):

- | | | |
|--|--|-----------------------------------|
| <input type="checkbox"/> Silts | <input type="checkbox"/> Sands | <input type="checkbox"/> Concrete |
| <input type="checkbox"/> Cobbles | <input type="checkbox"/> Gravel | <input type="checkbox"/> Muck |
| <input type="checkbox"/> Bedrock | <input type="checkbox"/> Vegetation. Type/% cover: _____ | |
| <input type="checkbox"/> Other. Explain: _____ | | |

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: _____

Presence of run/riffle/pool complexes. Explain: _____

Tributary geometry: **Pick List**

Tributary gradient (approximate average slope): _____ %

(c) Flow:

Tributary provides for: **Pick List**

Estimate average number of flow events in review area/year: **Pick List**

Describe flow regime: _____

Other information on duration and volume: _____

Surface flow is: **Pick List. Characteristics:** _____

Subsurface flow: **Pick List. Explain findings:** _____

Dye (or other) test performed: _____

Tributary has (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Bed and banks | |
| <input type="checkbox"/> OHWM ⁶ (check all indicators that apply): | |
| <input type="checkbox"/> clear, natural line impressed on the bank | <input type="checkbox"/> the presence of litter and debris |
| <input type="checkbox"/> changes in the character of soil | <input type="checkbox"/> destruction of terrestrial vegetation |
| <input type="checkbox"/> shelving | <input type="checkbox"/> the presence of wrack line |
| <input type="checkbox"/> vegetation matted down, bent, or absent | <input type="checkbox"/> sediment sorting |
| <input type="checkbox"/> leaf litter disturbed or washed away | <input type="checkbox"/> scour |
| <input type="checkbox"/> sediment deposition | <input type="checkbox"/> multiple observed or predicted flow events |
| <input type="checkbox"/> water staining | <input type="checkbox"/> abrupt change in plant community |
| <input type="checkbox"/> other (list): _____ | |
| <input type="checkbox"/> Discontinuous OHWM. ⁷ Explain: _____ | |

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

- | | |
|--|--|
| <input checked="" type="checkbox"/> High Tide Line indicated by: | <input checked="" type="checkbox"/> Mean High Water Mark indicated by: |
| <input type="checkbox"/> oil or scum line along shore objects | <input type="checkbox"/> survey to available datum; |
| <input type="checkbox"/> fine shell or debris deposits (foreshore) | <input type="checkbox"/> physical markings; |
| <input type="checkbox"/> physical markings/characteristics | <input type="checkbox"/> vegetation lines/changes in vegetation types. |
| <input type="checkbox"/> tidal gauges | |
| <input type="checkbox"/> other (list): _____ | |

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: _____

Identify specific pollutants, if known: _____

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

(iv) **Biological Characteristics. Channel supports (check all that apply):**

- Riparian corridor. Characteristics (type, average width): .
- Wetland fringe. Characteristics: .
- Habitat for:
 - Federally Listed species. Explain findings: .
 - Fish/spawn areas. Explain findings: .
 - Other environmentally-sensitive species. Explain findings: .
 - Aquatic/wildlife diversity. Explain findings: .

2. **Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size: acres

Wetland type. Explain: .

Wetland quality. Explain: .

Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:

Flow is: **Pick List**. Explain: .

Surface flow is: **Pick List**

Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

Directly abutting

Not directly abutting

Discrete wetland hydrologic connection. Explain: .

Ecological connection. Explain: .

Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Flow is from: **Pick List**.

Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) **Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .

Identify specific pollutants, if known: .

(iii) **Biological Characteristics. Wetland supports (check all that apply):**

- Riparian buffer. Characteristics (type, average width): .
- Vegetation type/percent cover. Explain: .
- Habitat for:
 - Federally Listed species. Explain findings: .
 - Fish/spawn areas. Explain findings: .
 - Other environmentally-sensitive species. Explain findings: .
 - Aquatic/wildlife diversity. Explain findings: .

3. **Characteristics of all wetlands adjacent to the tributary (if any)**

All wetland(s) being considered in the cumulative analysis: **Pick List**

Approximately () acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres) Directly abuts? (Y/N) Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
 TNWs: linear feet width (ft), Or, acres.
 Wetlands adjacent to TNWs: acres.
2. **RPWs that flow directly or indirectly into TNWs.**
 Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
 Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: linear feet width (ft).
 Other non-wetland waters: acres.
Identify type(s) of waters: .

3. Non-RPWs⁸ that flow directly or indirectly into TNWs.

- Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: linear feet width (ft).
 Other non-wetland waters: acres.
Identify type(s) of waters: .

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

- Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
 Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .
 Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

- Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

- Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.⁹

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from "waters of the U.S.," or
 Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
 Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
 from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
 which are or could be used for industrial purposes by industries in interstate commerce.
 Interstate isolated waters. Explain: .
 Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

⁸See Footnote # 3.

⁹To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres.
Identify type(s) of waters: .
- Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
- Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: .
- Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
- Lakes/ponds: 0.24 acres.
- Other non-wetland waters: acres. List type of aquatic resource: .
- Wetlands: 1.25 acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

- Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
- Lakes/ponds: acres.
- Other non-wetland waters: acres. List type of aquatic resource: .
- Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Wetland Delineation Report, Topeka Subdivision, Prepared for: Town of Topeka, 124 East Lake Street, P.O. Box 127, Topeka, Indiana 46571, Prepared by: Earth Source, Inc., 14921 Hand Road, Fort Wayne, Indiana 46818.
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps: .
- Corps navigable waters' study: .
- U.S. Geological Survey Hydrologic Atlas: .
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: 1:24K, Topeka, Indiana Quadrangle. Delineation report attachment T2.
- USDA Natural Resources Conservation Service Soil Survey. Citation: LaGrange County Soil Survey Map. Delineation report attachment T4.
- National wetlands inventory map(s). Cite name: Delineation report attachment T3.
- State/Local wetland inventory map(s): .
- FEMA/FIRM maps: .
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): 2020, Delineation report attachment T5, 2020 aerial report attachment D1, 2020 aerial report attachment D2, 2015 aerial report attachment D3, 2011 aerial report attachment D4, 2010 aerial report attachment D5, 2008 report attachment D6, 2007 aerial report attachment D7, 2006 aerial report attachment D8, 2005 aerial report attachment D9, 2003 aerial report attachment D10, and 1965 aerial report attachment D11.
 - or Other (Name & Date): Wetland delineation ground photos dated October 20, 2022, Corps site inspection photos taken November 22, 2022.
- Previous determination(s). File no. and date of response letter: .
- Applicable/supporting case law: .
- Applicable/supporting scientific literature: .

Other information (please specify): National Regulatory Viewer, Great Lakes and Ohio River Division, Indiana Regulatory Viewer, Corps site inspection November 22, 2022.

B. ADDITIONAL COMMENTS TO SUPPORT JD: .

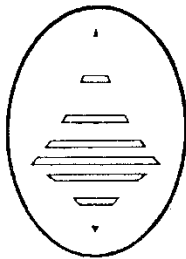
WETLAND DELINEATION REPORT

TOPEKA SUBDIVISION

Prepared for:

**TOWN OF TOPEKA
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P.O. BOX 127
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**WETLAND DELINEATION REPORT
TOPEKA SUBDIVISION: LAGRANGE COUNTY**

EXECUTIVE SUMMARY

A wetland delineation prepared for the town of Topeka of the 50-acre Topeka Subdivision site in Topeka (LaGrange County, Indiana) was completed on 20 October 2022. The wetland delineation was performed using the routine on-site determination method as set forth by the 1987 *Corps of Engineers Wetlands Delineation Manual* and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)*.

Under Sections 404 and 401 of the Clean Water Act, the Army Corps of Engineers (ACOE) and/or the Indiana Department of Environmental Management (IDEM) have jurisdiction over *waters of the United States*. This includes wetlands and other *waters* with an identifiable connection to interstate commerce. Wetlands not regulated under Section 401 and 404 of the Clean Water Act are regulated by the State of Indiana under IC 13-18-22. Any activity that involves the placement of fill and/or excavation within these jurisdictional areas may require notification and authorization of the appropriate regulatory agency. Jurisdictional status of *waters* identified within this report is based on **Earth Source**, Inc.'s interpretation and understanding of the definition and scope of *waters of the United States* protected under the Clean Water Act and related communications with ACOE Division and District personnel.

As illustrated by the attached wetland delineation plan (T6), a 0.24-acre private pond and 1.25 acres of isolated wetland were identified within the project limits (Table 1).

TABLE 1. SUMMARY OF WATER RESOURCES

Feature	Size	Description
Pond 1	0.24 acre	Excavated pond - Isolated
Section I	0.67 acre	Emergent Wetland, Farmed - Isolated
Section II	0.58 acre	Emergent Wetland, Farmed - Isolated

**WETLAND DELINEATION REPORT
TOPEKA SUBDIVISION: LAGRANGE COUNTY**

INTRODUCTION

A wetland delineation prepared for the Town of Topeka of the 50-acre Topeka Subdivision site in Topeka (LaGrange County, Indiana) was completed on 4 October 2022 (limits of delineation noted on attached plans T2 – T7). Site conditions were 45°F and cloudy. The project is located in portions of Section 30 of Clearspring Township, Township 36 North, Range 8 East in LaGrange County, Indiana (Latitude: 41.545243°, Longitude: -85.534121°, WGS 84). The wetland delineation was performed using the routine on-site determination method as set forth by 1987 *Corps of Engineers Wetlands Delineation Manual* and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)*.

METHODOLOGY

Two (2) transects were set perpendicular to the baseline and modified to encompass all areas and community types within the site boundary. Data stations included areas identified by soils data, the U.S. Fish and Wildlife Service (FWS) National Wetland Inventory, and Aerial Photography as potential wetlands. Soil, hydrology, and vegetation data were collected for each cover type encountered.

The three criteria required for the determination of an area to be a wetland are 1) Hydric Soils, 2) Wetland Hydrology, and 3) Dominance of Hydrophytic Vegetation. **Hydric Soils** criteria are met with a hydric soils listing and/or the presence of Histosols (organic soils - peat or muck), a histic epipedon, or reduced mineral soils with low matrix chroma of 2 or less with mottles, or with a matrix chroma of 1 without mottles, or gleyed soils, and/or the presence of other hydric soil indicators such as an aquic or peraquic moisture regime, ponding or a water table near the surface for at least one week during the growing season. **Wetland Hydrology** criteria are met or assumed by the presence of inundation or saturated soils and/or the confirmed presence of hydrologic field indicators such as water marks, debris deposits or morphological plant adaptations to life in anaerobic soil conditions. **Hydrophytic Vegetation** is a plant adapted to life in permanently or periodically inundated or saturated soil conditions. Wetland vegetation is characterized as an obligate, facultative wetland, or facultative species dependent upon the frequency these species are found in wetlands. The Hydrophytic Vegetation criterion is met when, upon identification of the dominant plant species in each stratum or layer of the plant community, a dominance (greater than 50 percent) of obligate, facultative wetland or facultative species is indicated. The hydrophytic vegetation criterion was based upon persistent vegetation. In order for an area to be determined as a wetland, all three criteria must be positively identified.

In order for an area to be subject to federal regulation, all three wetland criteria must be positively identified, and the area must meet the definition of *waters of the United States* found at 33 CFR 328.3 (a).

**WETLAND DELINEATION REPORT
TOPEKA SUBDIVISION: LAGRANGE COUNTY**

WETLAND DELINEATION SUMMARY

Two (2) isolated wetlands and one (1) excavated private pond were identified within the limits of the site. The wetland delineation was performed using the routine on-site determination method as set forth by 1987 Corps of Engineers Wetlands Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0). The site consists agricultural land. Based on the three 30-day periods preceding the wetland delineation, the delineation was conducted in a “Drier-than-Normal” year compared to the precipitation totals from the preceding 30 years. A discussion of the delineated water resources found on the site is presented below.

Isolated Wetlands and Other Waters

Two (2) isolated wetlands and one (1) excavated private pond were identified within the limits of the site. The delineated areas do not appear to have a discernable surface water or tile connection to other *waters of the United States* and do not appear to meet the definition of *waters of the United States* as defined by 33 CFR 328.3 (a) and consistent with the SWANCC and Rapanos decisions. For isolated, intrastate, non-navigable waters, ACOE jurisdiction may be possible if their use, degradation, or destruction could affect interstate commerce as described in 33 CFR 328.3 (a) (3) (i)-(iii).

Section I: Section I is an emergent wetland located within an active agricultural field and surrounding Pond 1. No tile inlets or riser structures were observed within this wetland. No discernable connections to other waters were identified. This area of the agricultural field has had limited crop success and shows up on the WETS analysis (Appendix D: Wetland Mapping Conventions. This section is class is classified as a Palustrine, Emergent, Temporarily Flooded, Farmed (PEMAf) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (T6), the delineated area is 0.67 acres. Below is a typical data point taken from within Section I (Appendix A: Data Form T1P5 & T1P7).

Hydric Soil: This area is listed by the LaGrange County Soil Survey as Rensselaer loam. The Rensselaer soil series is listed as hydric or may have hydric soil inclusions that meet the hydric soil criteria per the Natural Resources Conservation Service, United States Department of Agriculture, State Hydric Soils List. The observed soil was silty clay loam with matrix color at ten (10) inches below the surface of 10YR 4/1 with 10% 10YR 4/6 redox concentrations (Munsell Soil Color, 1992). The hydric soil criterion is met by the presence of: depleted matrix (F3).

Hydrology: Visual observations of hydrology were not present. Primary indicators of hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, were not present. Secondary indicators of wetland hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, were Geomorphic Position (D2) and FAC-Neutral Test (D5). The wetland hydrology criterion is met by the presence of two (2) secondary indicators.

Vegetation: The wetland vegetation criterion is met with greater than 50% of the dominant plant species across all strata are rated OBL, FACW, or FAC or prevalence index of 3.0 or less if hydric soils and hydrology indicators are present unless disturbed or problematic. Dominant species from each stratum were determined by the “50/20 rule” and are marked

**WETLAND DELINEATION REPORT
TOPEKA SUBDIVISION: LAGRANGE COUNTY**

with an asterisk (*). Below is the vegetation data from T1P5 (Appendix A) that represents a typical data point for the wetland community type:

Herbaceous Stratum Species List (5-ft radius):

Large Barnyard Grass*	<i>Echinochloa crus-galli</i>	FACW
Fall Panic Grass*	<i>Panicum dichotomiflorum</i>	FACW
Common Spike-Rush	<i>Eleocharis palustris</i>	OBL
Pinkweed	<i>Persicaria pensylvanica</i>	FACW
Annual Ragweed	<i>Ambrosia artemisiifolia</i>	FACU
Reed Canary Grass	<i>Phalaris arundinacea</i>	FACW

The total number of dominant species across all strata was two (2) for this data point. The percent of dominant species that are OBL, FACW, or FAC is 100%. Hydrophytic Vegetation is met by the Dominance Test.

Section II: Section II is an emergent wetland located within an agricultural field. No tile inlets or riser structures were observed within this wetland. No discernable connections to other waters were identified. This area shows up on the WETS Analysis (Appendix D: Wetland Mapping Conventions). The agricultural field was not planted in 2022, but corn stubble from a previous year was present. This section is class is classified as a Palustrine, Emergent, Temporarily Flooded, Farmed (PEMAf) system (Cowardin 1979). As illustrated by the attached wetland delineation plan (T6), the delineated area is 0.58 acres. Below is a typical data point taken from within Section II (Appendix A: Data Form T1P2).

Hydric Soil: This area is listed by the LaGrange County Soil Survey as Parr Loam. The Parr soil series is not listed as hydric, but may have hydric soil inclusions that meet the hydric soil criteria per the Natural Resources Conservation Service, United States Department of Agriculture, State Hydric Soils List. The observed soil was silty clay loam with matrix color at ten (10) inches below the surface of 10YR 4/2 with 10% 10YR 4/6 redox concentrations. (Munsell Soil Color, 1992). The hydric soil criterion is met by the presence of: Depleted matrix (F3).

Hydrology: Visual observations of hydrology were not present. Primary indicators of hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, were not present. Secondary indicators of wetland hydrology, as defined by TRY-87-1 and Midwest Regional Supplement, were saturation visible on aerial imagery (C9), geomorphic position (D1), and FAC-Neutral Test (D5). The wetland hydrology criterion is met by the presence of two (2) secondary indicators.

Vegetation: The wetland vegetation criterion is met with greater than 50% of the dominant plant species across all strata are rated OBL, FACW, or FAC or prevalence index of 3.0 or less if hydric soils and hydrology indicators are present unless disturbed or problematic. Dominant species from each stratum were determined by the “50/20 rule” and are marked with an asterisk (*). Below is the vegetation data from T6P2 (Appendix A) that represents a typical data point for the wetland community type:

Herbaceous Stratum Species List (5-ft radius):

Fall Panic Grass*	<i>Panicum dichotomiflorum</i>	FACW
Pinkweed*	<i>Persicaria pensylvanica</i>	FACW
Annual Ragweed	<i>Ambrosia artemisiifolia</i>	FACU

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Red-Root
Great Ragweed

Amaranthus retroflexus
Ambrosia trifida

FACU
FAC

The total number of dominant species across all strata was two (2) for this data point. The percent of dominant species that are OBL, FACW, or FAC is 100%. Hydrophytic vegetation indicator is met by the Dominance Test.

Pond 1: Pond 1 is a private pond excavated prior to 1998 and enlarged between 2008 and 2010. The pond was excavated from agricultural land in hydric Rensselaer loam soil. Pond 1 has no discernable connection to other waters. The pond is classified by the Cowardin Methodology (FWS) as a palustrine, open water, permanently flooded, excavated (POWHx). As illustrated by the attached wetland delineation plan (T6), the delineated area is 0.24 acres. Below is a typical data point taken from within Pond 3 (Appendix A: Data Forms T1P6).

CONCLUSIONS AND RECOMMENDATIONS

In Indiana, *waters of the United States*, including wetlands, are subject to regulation by the Army Corps of Engineers (ACOE) and/or the Indiana Department of Environmental Management (IDEM). Under Sections 404 and 401 of the Clean Water Act, the ACOE and/or the IDEM have jurisdiction over any activity that involves the placement of fill into, and/or excavation of, a delineated *water of the United States*. Wetlands located adjacent to *waters of the United States* or that have a connection to interstate commerce are considered *waters of the United States*.

The jurisdictional status of delineated waters identified in this report are based upon Earth Source's interpretation of 1987 *Corps of Engineers Wetlands Delineation Manual* (TRY-87-1), Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0) and Rapanos guidance. Wetland Sections I and II and Pond 1 appear to be isolated waters. The ACOE is the regulatory authority with regard to wetlands or other *waters of the United States*. *Waters* not regulated under Section 401 and 404 of the Clean Water Act are regulated by the State of Indiana under IC 13-18-22.

In order for a wetland to be classified as isolated an approved jurisdictional determination must be provided by the ACOE. Wetland "Class" must be approved by IDEM and typically, a notice of exemption is to be filed with IDEM. Exempt isolated wetlands are "Class I" wetlands and "Class II" wetlands described as the following and may limited to the larger of: 1) the acreage of an individual isolated "Class II" wetland delineated as three-eighths (3/8) acre or less; 2) sixty percent (60%) of the cumulative acreage of all individual isolated "Class II" wetlands delineated as three-eighths (3/8) acre or less. "Exempt" waters of the State (isolated wetlands), typically will not require mitigation but involve submittal of notification to the agencies at least 15 days prior to project initiation. A permit is not required for dredge and fill activities in a "Class II" wetland that is 1) located within the boundaries of a municipality and 2) has a delineated area of not more than three-fourths (3/4) acre. Impacts to "Class II" wetlands that meet these criteria typically will not require mitigation, but involve submittal of notification to the agencies prior to project initiation. For isolated wetlands, impacts to "Class III" wetlands will require an Individual Permit. Non-exempt "Class II" wetlands may qualify for the general permit program analogous to those allowed under the RGP and NWP for minimal impacts, or otherwise requires an Individual

**WETLAND DELINEATION REPORT
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Permit. Compensatory mitigation shall be provided in accordance with the following Table 2:

Table 2. Isolated Wetland Compensatory Mitigation Ratios

Wetland Class	Replacement Class	On-site and In-Lieu Fee Ratio	Off-site Ratio
Class II	Class II or III	1.5 to 1 Non-forested	2 to 1 Non-forested
		2 to 1 Forested	2.5 to 1 Forested
Class III	Class III	2 to 1 Non-forested	2.5 to 1 Non-forested
		2.5 to 1 Forested	3 to 1 Forested

Compensatory mitigation ratios may be lowered to 1 to 1 if the mitigation is completed before the initiation of the wetland activity. Also, exempt isolated wetlands may be used to provide compensatory mitigation for wetlands activities in state regulated wetlands.

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SUMMARY OF ACRONYMS AND REFERENCES

Indicator Status Acronyms:

OBL (Obligate Wetland). Occur almost always in wetlands.
FACW (Facultative Wetland). Usually occur in wetlands.
FAC (Facultative). Likely to occur in wetlands or uplands.
FACU (Facultative Upland). Usually occur in uplands.
UPL (Obligate Upland). Occur almost always in uplands.
N/I (No Indicator). Indicator status unavailable.

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APPENDIX A

DATA FORMS

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T1P1
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None
 Slope (%): 2 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Parr Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area Within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Upland old field west of Section II, planted with corn and harvested in 2021					

Vegetation – Use scientific names of plants.

Tree Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
Sapling/Shrub Stratum	(Plot size): 15-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1.	_____	_____	_____	_____	Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
Herb Stratum	(Plot size): 5-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1.	<u><i>Erigeron canadensis</i></u>	<u>50</u>	<u>X</u>	<u>FACU</u>	Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2.	<u><i>Panicum dichotomiflorum</i></u>	<u>15</u>	_____	<u>FACW</u>	
3.	<u><i>Amaranthus retroflexus</i></u>	<u>10</u>	_____	<u>FACU</u>	
4.	<u><i>Sonchus oleraceus</i></u>	<u>10</u>	_____	<u>FACU</u>	
5.	<u><i>Erigeron annuus</i></u>	<u>5</u>	_____	<u>FACU</u>	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
Woody Vine Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
9.	_____	_____	_____	_____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
10.	_____	_____	_____	_____	
_____ = Total Cover					

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

SOIL

Sampling Point: T1P1

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-12	10YR 3/3	100					Silt Loam	
12-24	10YR 5/3	100					Silt Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix								
Hydric Soil Indicators:				Indicators for Problematic Hydric Soils³:				
				Sandy Gleyed matrix (S4)			Coast Prairie Redox (A16)	
				Sandy Redox (S5)			Dark Surface (S7)	
				Stripped Matrix (S6)			Iron-Manganese Masses (F12)	
				Loamy Mucky Mineral (F1)			Very Shallow Dark Surface (TF12)	
				Loamy Gleyed Matrix (F2)			Other (Explain in Remarks)	
				Depleted matrix (F3)				
				Redox Dark Surface (F6)			³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
				Depleted Dark Surface (F7)				
				Redox Depressions (F8)				
				5 cm Mucky Peat or Peat (S3)				
Restrictive Layer (if observed):				Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Type:	_____							
Depth (in.)	_____							
Remarks:								

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; checked all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water table (C2)	
<input type="checkbox"/> Water marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
Field Observations:		Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depths (inches): _____		
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depths (inches): <u>>24</u>		
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depths (inches): <u>>24</u>		
(includes capillary fringe)			
Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T1P2
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Parr Loam NWI classification: PEMAf
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Is the Sampled Area Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	
Wetland Hydrology Present?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	
Remarks: Section II – Farmed emergent wetland, planted with corn and harvested in 2021					

Vegetation – Use scientific names of plants.

Tree Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
Sapling/Shrub Stratum	(Plot size): 15-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1.	_____	_____	_____	_____	Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
Herb Stratum	(Plot size): 5-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1.	<u>Panicum dichotomiflorum</u>	40	X	FACW	Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2.	<u>Persicaria pensylvanica</u>	30	X	FACW	
3.	<u>Ambrosia artemisiifolia</u>	15		FACU	
4.	<u>Amaranthus retroflexus</u>	10		FACU	
5.	<u>Ambrosia trifida</u>	5		FAC	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
Woody Vine Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
9.	_____	_____	_____	_____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
10.	_____	_____	_____	_____	
_____ = Total Cover					

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

SOIL

Sampling Point: T1P2

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-14	10YR 4/2	90	10YR 4/6	10	C	M	Silty Clay Loam	
14-24	10YR 3/1	95	10YR 3/6	5	C	M	Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/>	<input type="checkbox"/> Sandy Gleyed matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/>	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/>	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/>	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/>	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	<input checked="" type="checkbox"/>	<input type="checkbox"/> Depleted matrix (F3)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/>	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/>	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/>	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/>		

Restrictive Layer (if observed): Type: _____ Depth (in.) _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water table (C2)	
<input type="checkbox"/> Water marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depths (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depths (inches): >24 _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depths (inches): >24 _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T1P3
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None
 Slope (%): 2 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Parr Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area Within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Upland field planted with corn and harvested in 2021					

Vegetation – Use scientific names of plants.

Tree Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That are OBL, FACW, or FAC: <u>33.3%</u> (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size): 15-ft radius					
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size): 5-ft radius					
1.	<u><i>Erigeron canadensis</i></u>	<u>30</u>	<u>X</u>	<u>FACU</u>	
2.	<u><i>Panicum dichotomiflorum</i></u>	<u>15</u>	<u>X</u>	<u>FACW</u>	
3.	<u><i>Symphotrichum pilosum</i></u>	<u>15</u>	<u>X</u>	<u>FACU</u>	
4.	<u><i>Echinochloa crus-galli</i></u>	<u>10</u>		<u>FACW</u>	
5.	<u><i>Ambrosia artemisiifolia</i></u>	<u>10</u>		<u>FACU</u>	
6.	<u><i>Ambrosia trifida</i></u>	<u>10</u>		<u>FAC</u>	
7.	<u><i>Sorghum halepense</i></u>	<u>10</u>		<u>FACU</u>	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Woody Vine Stratum (Plot size): 30-ft radius					
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					

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

SOIL

Sampling Point: T1P3

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-12	10YR 4/1	90	10YR 4/6	10	C	M	Silty Clay Loam	
12-24	10YR 5/2	95	10YR 5/6	5	C	M	Silt Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/>	Sandy Gleyed matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/>	Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/>	Stripped Matrix (S6)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/>	Loamy Mucky Mineral (F1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/>	Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	<input checked="" type="checkbox"/>	Depleted matrix (F3)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/>	Redox Dark Surface (F6)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/>	Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/>	Redox Depressions (F8)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/>		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (in.) _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; checked all that apply)		
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water table (C2)
<input type="checkbox"/> Water marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depths (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depths (inches): >24 Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depths (inches): >24 (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T1P4
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Parr Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area Within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Upland old field					

Vegetation – Use scientific names of plants.

Tree Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size): 15-ft radius					
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
Herb Stratum (Plot size): 5-ft radius					
1.	<u><i>Erigeron canadensis</i></u>	<u>25</u>	<u>X</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2.	<u><i>Panicum dichotomiflorum</i></u>	<u>25</u>	<u>X</u>	<u>FACW</u>	
3.	<u><i>Echinochloa crus-galli</i></u>	<u>20</u>	<u>X</u>	<u>FACW</u>	
4.	<u><i>Ambrosia trifida</i></u>	<u>15</u>		<u>FAC</u>	
5.	<u><i>Symphotrichum pilosum</i></u>	<u>10</u>		<u>FACU</u>	
6.	<u><i>Setaria faberi</i></u>	<u>5</u>		<u>FACU</u>	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
Woody Vine Stratum (Plot size): 30-ft radius					
9.	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
10.	_____	_____	_____	_____	
_____ = Total Cover					

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

SOIL

Sampling Point: T1P4

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-16	10YR 3/3	100					Silty Clay Loam	
16-24	10YR 4/4	90	10YR 5/6	10	C	M	Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Gleyed matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)		

Restrictive Layer (if observed): Type: _____ Depth (in.) _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; checked all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Water marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage patterns (B10) <input type="checkbox"/> Dry-Season Water table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> FAC-Neutral Test (D5)	

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depths (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depths (inches): <u>>24</u> Saturation Present? Yes _____ No <u>X</u> Depths (inches): <u>>24</u> (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T1P5
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Rensselaer Loam NWI classification: PEMAf
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Section I – Emergent wetland surrounding a pond located within an agricultural field. This area has had limited crop success and has been impounded by pond dredge material adjacent to the pond	

Vegetation – Use scientific names of plants.

Tree Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size): 15-ft radius					
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size): 5-ft radius					
1.	<u>Echinochloa crus-galli</u>	<u>30</u>	<u>X</u>	<u>FACW</u>	
2.	<u>Panicum dichotomiflorum</u>	<u>25</u>	<u>X</u>	<u>FACW</u>	
3.	<u>Eleocharis palustris</u>	<u>15</u>		<u>OBL</u>	
4.	<u>Persicaria pensylvanica</u>	<u>15</u>		<u>FACW</u>	
5.	<u>Ambrosia artemisiifolia</u>	<u>10</u>		<u>FACU</u>	
6.	<u>Phalaris arundinacea</u>	<u>5</u>		<u>FACW</u>	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Woody Vine Stratum (Plot size): 30-ft radius					
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					

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

SOIL

Sampling Point: T1P5

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-15	10YR 4/1	90	10YR 4/6	10	C	M	Silty Clay Loam	
15-24	10YR 3/1	90	10YR 4/6	10	C	M	Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Gleyed matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> 2 cm Muck (A10)	<input checked="" type="checkbox"/> Depleted matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)		
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)			

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (in.) _____	Hydric Soil Present? Yes _____ No <u>X</u>
---	---

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; checked all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water table (C2)	
<input type="checkbox"/> Water marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depths (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depths (inches): >24 Saturation Present? Yes _____ No <u>X</u> Depths (inches): >24 (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
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Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T1P6
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Pond Local relief (concave, convex, none): Concave
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Rennselaer Loam NWI classification: POWHx
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area Within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			
Remarks: Pond 1 – Private pond, excavated prior to 1998 and expanded between 2008 and 2010. Delineated at the ordinary high water mark (OHWM)					

Vegetation – Use scientific names of plants.

Tree Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That are OBL, FACW, or FAC: _____ (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
		_____ = Total Cover			
Sapling/Shrub Stratum	(Plot size): 15-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1.	_____	_____	_____	_____	Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
		_____ = Total Cover			
Herb Stratum	(Plot size): 5-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1.	_____	_____	_____	_____	Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
		_____ = Total Cover			
Woody Vine Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
9.	_____	_____	_____	_____	Yes _____ No <u>X</u>
10.	_____	_____	_____	_____	
		_____ = Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.)
 No vegetation present below OHWM

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T1P7
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Rensselaer Loam NWI classification: PEMAf
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Section I – Emergent wetland surrounding a pond located within an agricultural field. This area has had limited crop success and has been impounded by pond dredge material adjacent to the pond	

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Populus deltoides</u>	20	X	FAC	Number of Dominant Species That are OBL, FACW or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>20</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size): 15-ft radius				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size): 5-ft radius				
1. <u>Phalaris arundinacea</u>	30	X	FACW	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Panicum dichotomiflorum</u>	25	X	FACW	
3. <u>Echinochloa crus-galli</u>	20	X	FACW	
4. <u>Ambrosia trifida</u>	10	_____	FAC	
5. <u>Persicaria pensylvanica</u>	10	_____	FACW	
6. <u>Ambrosia artemisiifolia</u>	5	_____	FACU	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>100</u> = Total Cover				
Woody Vine Stratum (Plot size): 30-ft radius				
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
_____ = Total Cover				

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

SOIL

Sampling Point: T1P7

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-10	10YR 4/1	90	10YR 5/6	10	C	M	Silty Clay Loam	
10-24	10YR 3/1	90	10YR 4/6	10	C	M	Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/>	<input type="checkbox"/> Sandy Gleyed matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/>	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/>	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/>	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/>	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	<input checked="" type="checkbox"/>	<input type="checkbox"/> Depleted matrix (F3)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/>	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/>	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/>	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/>		

Restrictive Layer (if observed): Type: _____ Depth (in.) _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
---	--

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water table (C2)	
<input type="checkbox"/> Water marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depths (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depths (inches): >24 _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depths (inches): >24 _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T1P8
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Rensselaer Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area Within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Upland agricultural field planted with soybeans and harvested in 2022					

Vegetation – Use scientific names of plants.

<u>Tree Stratum</u>	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That are OBL, FACW, or FAC: _____ (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
<u>Sapling/Shrub Stratum</u>	(Plot size): 15-ft radius				Prevalence Index worksheet:
1.	_____	_____	_____	_____	Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
<u>Herb Stratum</u>	(Plot size): 5-ft radius				Hydrophytic Vegetation Indicators:
1.	_____	_____	_____	_____	Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
<u>Woody Vine Stratum</u>	(Plot size): 30-ft radius				Hydrophytic Vegetation Present?
9.	_____	_____	_____	_____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
10.	_____	_____	_____	_____	
_____ = Total Cover					

Remarks: (Include photo numbers here or on a separate sheet.)
 Only vegetation indicator present is remnants of soybeans (Glycine soja, UPL), harvested

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T1P9
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Wawasee Fine Sandy Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area Within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Upland agricultural field planted with soybeans and harvested in 2022					

Vegetation – Use scientific names of plants.

<u>Tree Stratum</u>	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That are OBL, FACW, or FAC: _____ (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size): 15-ft radius					
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
<u>Herb Stratum</u> (Plot size): 5-ft radius					
1.	_____	_____	_____	_____	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
<u>Woody Vine Stratum</u> (Plot size): 30-ft radius					
9.	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
10.	_____	_____	_____	_____	
_____ = Total Cover					

Remarks: (Include photo numbers here or on a separate sheet.)
 Only vegetation indicator present is remnants of soybeans (*Glycine soja*, UPL), harvested

SOIL

Sampling Point: T1P9

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-14	10YR 3/3	100					Silty Clay Loam	
14-24	10YR 5/3	80	10YR 4/6	20	C	M	Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Gleyed matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (in.) _____	Hydric Soil Present? Yes _____ No <u>X</u>
---	---

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; checked all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water table (C2)
<input type="checkbox"/> Water marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depths (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depths (inches): <u>>24</u> Saturation Present? Yes _____ No <u>X</u> Depths (inches): <u>>24</u> (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T1P10
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Wawasee Fine Sandy Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area Within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Upland agricultural field planted with soybeans and harvested in 2022					

Vegetation – Use scientific names of plants.

Tree Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That are OBL, FACW, or FAC: _____ (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size): 15-ft radius					
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
Herb Stratum (Plot size): 5-ft radius					
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
Woody Vine Stratum (Plot size): 30-ft radius					
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)					
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

Remarks: (Include photo numbers here or on a separate sheet.)
 Only vegetation indicator present is remnants of soybeans (*Glycine soja*, UPL), harvested

SOIL

Sampling Point: T1P10

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-12	10YR 3/3	100					Silty Clay Loam	
12-24	10YR 5/3	85	10YR 4/6	15	C	M	Clay Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix								
Hydric Soil Indicators:			Indicators for Problematic Hydric Soils³:					
Restrictive Layer (if observed):				Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Type:	_____							
Depth (in.)	_____							
Remarks:								

HYDROLOGY

Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; checked all that apply)							
Field Observations:				Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Surface Water Present?	Yes	<input type="checkbox"/>	No				
Water Table Present?	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Depths (inches):	>24	
Saturation Present?	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Depths (inches):	>24	
(includes capillary fringe)							
Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T1P11
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Wawasee Fine Sandy Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area Within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Upland agricultural field planted with soybeans and harvested in 2022					

Vegetation – Use scientific names of plants.

Tree Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That are OBL, FACW, or FAC: _____ (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
Sapling/Shrub Stratum	(Plot size): 15-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1.	_____	_____	_____	_____	Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
Herb Stratum	(Plot size): 5-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1.	_____	_____	_____	_____	Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
Woody Vine Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
9.	_____	_____	_____	_____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
10.	_____	_____	_____	_____	
_____ = Total Cover					

Remarks: (Include photo numbers here or on a separate sheet.)
 Only vegetation indicator present is remnants of soybeans (*Glycine soja*, UPL), harvested

SOIL

Sampling Point: T1P11

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-12	10YR 3/3	100					Sandy Loam	
12-24	10YR 5/2	90	10YR 4/6	10	C	M	Sandy Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Gleyed matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (in.) _____	Hydric Soil Present? Yes _____ No <u>X</u>
---	---

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; checked all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water table (C2)
<input type="checkbox"/> Water marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depths (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depths (inches): <u>>24</u> Saturation Present? Yes _____ No <u>X</u> Depths (inches): <u>>24</u> (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T1P12
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Concave
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Wawasee Fine Sandy Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area Within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Upland agricultural field planted with soybeans and harvested in 2022					

Vegetation – Use scientific names of plants.

Tree Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That are OBL, FACW, or FAC: _____ (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size): 15-ft radius					
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
Herb Stratum (Plot size): 5-ft radius					
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size): 30-ft radius					
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Remarks: (Include photo numbers here or on a separate sheet.)
 Only vegetation indicator present is remnants of soybeans (*Glycine soja*, UPL), harvested

SOIL

Sampling Point: T1P12

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	% ¹⁰⁰	Color	%	Type ¹	Loc ²		
0-24	10YR 3/3						Sandy Clay Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Gleyed matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)		

Restrictive Layer (if observed): Type: _____ Depth (in.) _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water table (C2)	
<input type="checkbox"/> Water marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depths (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depths (inches): <u>>24</u> Saturation Present? Yes _____ No <u>X</u> Depths (inches): <u>>24</u> (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T2P1
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Wawasee Fine Sandy Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area Within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Upland agricultural field planted with soybeans and harvested in 2022					

Vegetation – Use scientific names of plants.

Tree Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That are OBL, FACW, or FAC: _____ (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size): 15-ft radius					
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
Herb Stratum (Plot size): 5-ft radius					
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
Woody Vine Stratum (Plot size): 30-ft radius					
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)					
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

Remarks: (Include photo numbers here or on a separate sheet.)
 Only vegetation indicator present is remnants of soybeans (*Glycine soja*, UPL), harvested

SOIL

Sampling Point: T2P1

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-10	10YR 3/3	100					Silty Clay Loam	
10-24	10YR 4/2	95	10YR 4/6	5	C	M	Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:			Indicators for Problematic Hydric Soils ³ :			
<input type="checkbox"/>	Histosol (A1)	<input type="checkbox"/>	<input type="checkbox"/>	Sandy Gleyed matrix (S4)	<input type="checkbox"/>	Coast Prairie Redox (A16)
<input type="checkbox"/>	Histic Epipedon (A2)	<input type="checkbox"/>	<input type="checkbox"/>	Sandy Redox (S5)	<input type="checkbox"/>	Dark Surface (S7)
<input type="checkbox"/>	Black Histic (A3)	<input type="checkbox"/>	<input type="checkbox"/>	Stripped Matrix (S6)	<input type="checkbox"/>	Iron-Manganese Masses (F12)
<input type="checkbox"/>	Hydrogen Sulfide (A4)	<input type="checkbox"/>	<input type="checkbox"/>	Loamy Mucky Mineral (F1)	<input type="checkbox"/>	Very Shallow Dark Surface (TF12)
<input type="checkbox"/>	Stratified Layers (A5)	<input type="checkbox"/>	<input type="checkbox"/>	Loamy Gleyed Matrix (F2)	<input type="checkbox"/>	Other (Explain in Remarks)
<input type="checkbox"/>	2 cm Muck (A10)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Depleted matrix (F3)		
<input type="checkbox"/>	Depleted Below Dark Surface (A11)	<input type="checkbox"/>	<input type="checkbox"/>	Redox Dark Surface (F6)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/>	Thick Dark Surface (A12)	<input type="checkbox"/>	<input type="checkbox"/>	Depleted Dark Surface (F7)		
<input type="checkbox"/>	Sandy Mucky Mineral (S1)	<input type="checkbox"/>	<input type="checkbox"/>	Redox Depressions (F8)		
<input type="checkbox"/>	5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/>				

Restrictive Layer (if observed):
 Type: _____
 Depth (in.) _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/>	Surface water (A1)	<input type="checkbox"/>	Water-Stained Leaves (B9)
<input type="checkbox"/>	High Water Table (A2)	<input type="checkbox"/>	Aquatic Fauna (B13)
<input type="checkbox"/>	Saturation (A3)	<input type="checkbox"/>	True Aquatic Plants (B14)
<input type="checkbox"/>	Water marks (B1)	<input type="checkbox"/>	Hydrogen Sulfide Odor (C1)
<input type="checkbox"/>	Sediment Deposits (B2)	<input type="checkbox"/>	Oxidized Rhizospheres on Living roots (C3)
<input type="checkbox"/>	Drift Deposits (B3)	<input type="checkbox"/>	Presence of Reduced Iron (C4)
<input type="checkbox"/>	Algal Mat or Crust (B4)	<input type="checkbox"/>	Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/>	Iron Deposits (B5)	<input type="checkbox"/>	Thin Muck Surface (C7)
<input type="checkbox"/>	Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/>	Gauge or Well Data (D9)
<input type="checkbox"/>	Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/>	Other (Explain in Remarks)
<input type="checkbox"/>		<input type="checkbox"/>	Surface Soil Cracks (B6)
		<input type="checkbox"/>	Drainage patterns (B10)
		<input type="checkbox"/>	Dry-Season Water table (C2)
		<input type="checkbox"/>	Crayfish Burrows (C8)
		<input type="checkbox"/>	Saturation Visible on Aerial Imagery (C9)
		<input type="checkbox"/>	Stunted or Stressed Plants (D1)
		<input type="checkbox"/>	Geomorphic Position (D2)
		<input type="checkbox"/>	FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depths (inches): _____
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depths (inches): <u>>24</u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depths (inches): <u>>24</u>

Wetland Hydrology Present? Yes No

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

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T2P2
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Wawasee Fine Sandy Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area Within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			
Remarks: Upland lawn – This area was an old homesite/storage area prior to 2005.					

Vegetation – Use scientific names of plants.

Tree Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
Sapling/Shrub Stratum	(Plot size): 15-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1.	_____	_____	_____	_____	Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
Herb Stratum	(Plot size): 5-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1.	<u>Phalaris arundinacea</u>	<u>60</u>	<u>X</u>	<u>FACW</u>	Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2.	<u>Schedonorus arundinaceus</u>	<u>40</u>	<u>X</u>	<u>FACU</u>	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
Woody Vine Stratum	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
9.	_____	_____	_____	_____	Yes _____ No <u>X</u>
10.	_____	_____	_____	_____	
_____ = Total Cover					

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

SOIL

Sampling Point: T2P2

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-11	10YR 4/2	90	10YR 4/6	10	C	M	Silty Clay Loam	
11-24	10YR 5/1	95	10YR 5/6	5	C	M	Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Gleyed matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> 2 cm Muck (A10)	<input checked="" type="checkbox"/> Depleted matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)		
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)			

Restrictive Layer (if observed):
 Type: _____
 Depth (in.) _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; checked all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water table (C2)	
<input type="checkbox"/> Water marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depths (inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depths (inches): <u>>24</u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depths (inches): <u>>24</u>	

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

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T2P3
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Wawasee Fine Sandy Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area Within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Upland agricultural field planted with soybeans and harvested in 2022					

Vegetation – Use scientific names of plants.

<u>Tree Stratum</u>	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That are OBL, FACW, or FAC: _____ (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
<u>Sapling/Shrub Stratum</u>	(Plot size): 15-ft radius				Prevalence Index worksheet:
1.	_____	_____	_____	_____	Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
<u>Herb Stratum</u>	(Plot size): 5-ft radius				Hydrophytic Vegetation Indicators:
1.	_____	_____	_____	_____	Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
<u>Woody Vine Stratum</u>	(Plot size): 30-ft radius				Hydrophytic Vegetation Present?
9.	_____	_____	_____	_____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
10.	_____	_____	_____	_____	
_____ = Total Cover					

Remarks: (Include photo numbers here or on a separate sheet.)
 Only vegetation indicator present is remnants of soybeans (*Glycine soja*, UPL), harvested

SOIL

Sampling Point: T2P3

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-12	10YR 3/3	100					Sandy Clay Loam	
12-24	10YR 5/4	95	10YR 5/6	5	C	M	Sandy Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydic Soil Indicators:		Indicators for Problematic Hydic Soils ³ :	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Gleyed matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (in.) _____	Hydic Soil Present? Yes _____ No <u>X</u>
---	--

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; checked all that apply)					
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water table (C2)	<input type="checkbox"/> Water marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depths (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depths (inches): >24 Saturation Present? Yes _____ No <u>X</u> Depths (inches): >24 (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
--	---

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

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T2P4
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None
 Slope (%): 2 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Wawasee Fine Sandy Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area Within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: Upland agricultural field planted with soybeans and harvested in 2022					

Vegetation – Use scientific names of plants.

<u>Tree Stratum</u>	(Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	_____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That are OBL, FACW, or FAC: _____ (A/B)
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
<u>Sapling/Shrub Stratum</u>	(Plot size): 15-ft radius				Prevalence Index worksheet:
1.	_____	_____	_____	_____	Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
_____ = Total Cover					
<u>Herb Stratum</u>	(Plot size): 5-ft radius				Hydrophytic Vegetation Indicators:
1.	_____	_____	_____	_____	Rapid Test for Hydrophytic Vegetation Dominance Test > 50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
6.	_____	_____	_____	_____	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
_____ = Total Cover					
<u>Woody Vine Stratum</u>	(Plot size): 30-ft radius				Hydrophytic Vegetation Present?
9.	_____	_____	_____	_____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
10.	_____	_____	_____	_____	
_____ = Total Cover					

Remarks: (Include photo numbers here or on a separate sheet.)
 Only vegetation indicator present is remnants of soybeans (*Glycine soja*, UPL), harvested

SOIL

Sampling Point: T2P4

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color	%	Type ¹	Loc ²		
0-8	10YR 3/3	100					Sandy Clay Loam	
8-24	10YR 5/4	90	10YR 4/6	10	C	M	Sandy Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydic Soil Indicators:		Indicators for Problematic Hydic Soils ³ :	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Gleyed matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Redox Depressions (F8)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (in.) _____	Hydic Soil Present? Yes _____ No <u>X</u>
---	--

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; checked all that apply)			
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water table (C2)	
<input type="checkbox"/> Water marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depths (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depths (inches): <u>>24</u> Saturation Present? Yes _____ No <u>X</u> Depths (inches): <u>>24</u> (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
--	---

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

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Topeka Subdivision City/County: Topeka/LaGrange Sample Date: 10-20-2022
 Applicant/Owner: Town of Topeka State: IN Sample Point: T2P5
 Investigator(s): Ashlee Nichter, Katelyn Gutwein Section: Township, Range: Sec 30: T36N, R8E
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex
 Slope (%): 0 Lat: 41.545243° Long: -85.534121° Datum: WGS 84
 Soil Map Unit Name: Wawasee Fine Sandy Loam NWI classification: None
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

Summary of Finding – Attach site map showing sampling point locations, transect, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is the Sampled Area Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Remarks: Upland hill in an agricultural field			

Vegetation – Use scientific names of plants.

Tree Stratum (Plot size): 30-ft radius	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That are OBL, FACW or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size): 15-ft radius 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ _____ = Total Cover				
Herb Stratum (Plot size): 5-ft radius 1. <u>Sorghum halepense</u> 40 X FACU 2. <u>Setaria pumila</u> 30 X FAC 3. <u>Abutilon theophrasti</u> 15 FACU 4. <u>Eleusine indica</u> 15 FACU 5. <u>Panicum dichotomiflorum</u> 10 FACW 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ _____ = Total Cover				
Woody Vine Stratum (Plot size): 30-ft radius 9. _____ 10. _____ _____ = Total Cover				
_____ = Total Cover				

Hydrophytic Vegetation Indicators:
 Rapid Test for Hydrophytic Vegetation
 Dominance Test > 50%
 Prevalence Index is ≤ 3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

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

SOIL

Sampling Point: T2P5

Profile Description: Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	% ¹⁰⁰	Color	%	Type ¹	Loc ²		
0-24	10YR 3/3						Sandy Loam	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix								
Hydic Soil Indicators:				Indicators for Problematic Hydic Soils³:				
				Sandy Gleyed matrix (S4)			Coast Prairie Redox (A16)	
				Sandy Redox (S5)			Dark Surface (S7)	
				Stripped Matrix (S6)			Iron-Manganese Masses (F12)	
				Loamy Mucky Mineral (F1)			Very Shallow Dark Surface (TF12)	
				Loamy Gleyed Matrix (F2)			Other (Explain in Remarks)	
				Depleted matrix (F3)				
				Redox Dark Surface (F6)			³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
				Depleted Dark Surface (F7)				
				Redox Depressions (F8)				
Restrictive Layer (if observed):								
Type:								
Depth (in.)								
				Hydic Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Remarks:								

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; checked all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water table (C2)	
<input type="checkbox"/> Water marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depths (inches):	
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depths (inches):	>24
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depths (inches):	>24
		Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

APPENDIX B

SITE PHOTOGRAPHS

APPENDIX B
TOPEKA SUBDIVISION: LAGRANGE COUNTY



1. View east of upland field at data point T1P1, 10/20/2022.



3. View west of upland field at data point T1P3, 10/20/2022.



2. View south of Section II at data point T1P2, 10/20/2022.



4. View west of upland field at data point T1P4, 10/20/2022.

APPENDIX B
TOPEKA SUBDIVISION: LAGRANGE COUNTY



5. View south of Section I at data point T1P5, 10/20/2022.



7. View east of Section I at data point T1P7 10/20/2022.



6. View west of Pond 1 at data point T1P6 10/20/2022.



8. View north of agricultural fields at T1P8 10/20/2022.

APPENDIX B
TOPEKA SUBDIVISION: LAGRANGE COUNTY



9. View west of agricultural fields at data point T1P9, 10/20/2022.



11. View south of agricultural fields at data point T1P11 10/20/2022.



10. View north of agricultural fields at data point T1P10 10/20/2022.



12. View east of agricultural fields at T1P12 10/20/2022.

APPENDIX B
TOPEKA SUBDIVISION: LAGRANGE COUNTY



13. View east of agricultural fields at data point T2P1, 10/20/2022.



15. View south of agricultural fields at data point T2P3, 10/20/2022.



14. View west of lawn at data point T2P2 10/20/2022.



16. View north of agricultural fields at T2P4, 10/20/2022.

APPENDIX B
TOPEKA SUBDIVISION: LAGRANGE COUNTY

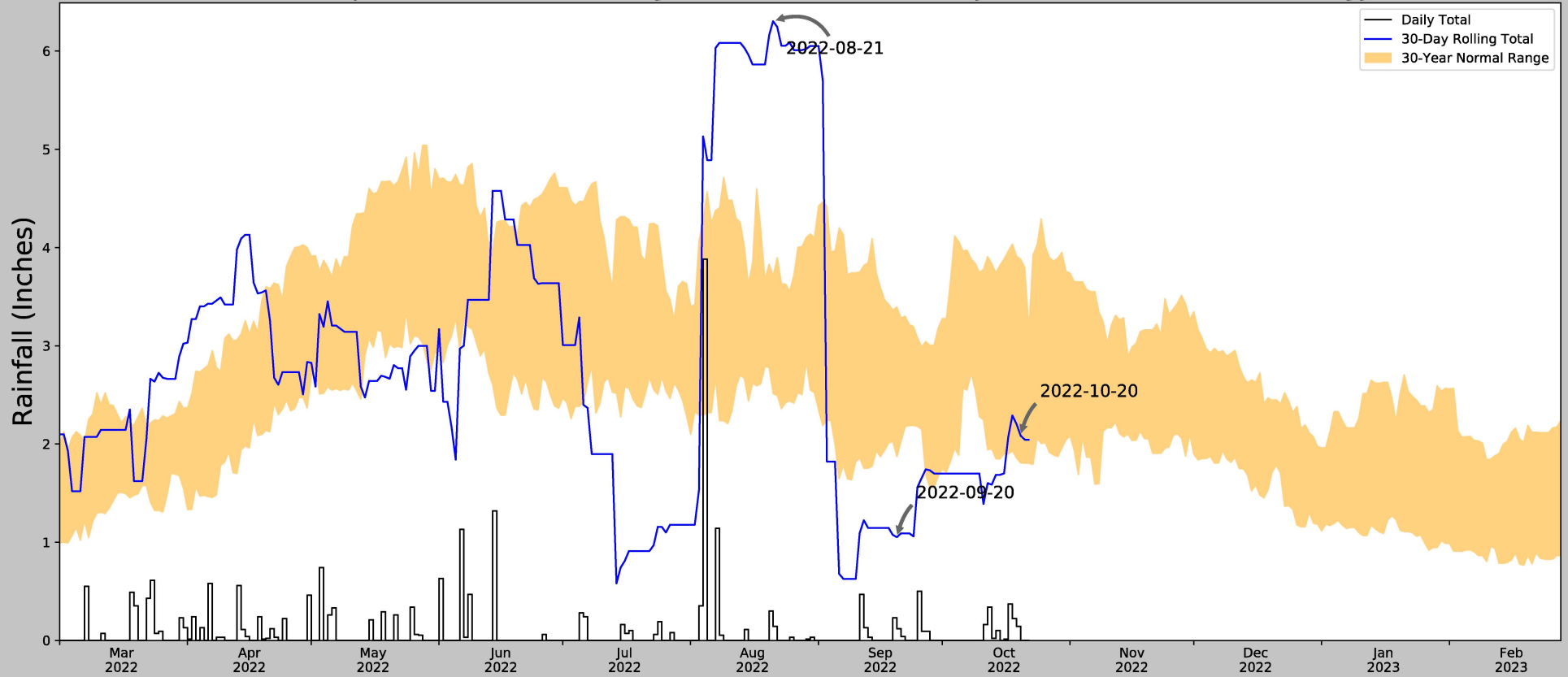


17. View north of upland field at T2P5, 10/20/2022.

APPENDIX C

“TYPICAL YEAR” PRECIPITATION DATA

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



Coordinates	41.545243, -85.534121
Observation Date	2022-10-20
Elevation (ft)	927.63
Drought Index (PDSI)	Moderate wetness (2022-09)
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2022-10-20	1.79685	3.877953	2.082677	Normal	2	3	6
2022-09-20	1.86063	3.388189	1.051181	Dry	1	2	2
2022-08-21	2.500787	3.708662	6.30315	Wet	3	1	3
Result							Normal Conditions - 11



Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
GOSHEN MUNI AP	41.5272, -85.7922	827.1	13.406	100.53	7.38	8906	89
GOSHEN 1.8 SE	41.5614, -85.8093	816.929	2.523	10.171	1.161	16	1
GOSHEN 1.4 SSE	41.5586, -85.8287	807.087	2.876	20.013	1.352	9	0
SYRACUSE 4.4 NNW	41.4847, -85.7701	827.1	3.151	0.0	1.418	1	0
GOSHEN 3SW	41.5575, -85.8825	875.0	5.118	47.9	2.548	2328	0
LEESBURG 4 E	41.3306, -85.7819	839.895	13.594	12.795	6.291	86	0
LIGONIER 2 S	41.4311, -85.5897	925.853	12.408	98.753	6.809	7	0

APPENDIX D

WETLAND MAPPING CONVENTIONS

**WETLAND MAPPING CONVENTIONS FOR AGRICULTURAL LAND
TOPEKA: LAGRANGE COUNTY, INDIANA**

Wetland Mapping Conventions

Earth Source, Inc. performed a wetland delineation using the wetland mapping conventions for the Carina Solar project site. The wetland mapping conventions is a method used to guide wetland delineators in making off-site wetland determinations on agricultural lands and takes into consideration above normal and below normal precipitation periods. The principal tools used to make the wetland determination are 1) U.S. Fish and Wildlife Service (FWS) National Wetland Inventory (NWI) maps, 2) County Soil Survey, 3) Aerial photographs from Google Earth and National Agriculture Imagery Program (NAIP) and 4) precipitation data from the closest reporting NOAA's Daily Global Historical Climatology Network station to the project.

Precipitation data was obtained from the NOAA's Daily Global Historical Climatology Network using the Army Corps of Engineer's Antecedent Precipitation Tool Version 1.0 to determine the wetness conditions of each aerial photograph. Data were collected from the following stations: Goshen Muni AP, Wolcottville 1.1 WNW, Ligonier 2 S, Ligonier 4/3 WNW, Millersburg 0.5 SW, and LaGrange. Three (3) months preceding each aerial photograph were evaluated and weighted based on the wetness condition compared to the 30-year normal rainfall for that period. Months greater than the 30-year normal rainfall were determined to be "Wet" and were weighted "3". Months within the 30-year normal rainfall were determine to be "Normal" and were weighted "2". Months less than the 30-year normal rainfall were determined to be "Dry" and were weighted "1". The three (3) months preceding each aerial photograph were also weighted on antecedent condition. The month prior to the aerial photograph was weighted "3", second month prior "2" and third month prior "1". The product of the wetness condition and antecedent condition were totaled for the three (3) months preceding each aerial photograph. A "Wetter than Normal" precipitation preceding an aerial photograph has a score greater than 14. A "Normal" precipitation preceding an aerial photograph has a score greater than or equal to 10 and less than or equal to 13. A "Drier than Normal" precipitation preceding an aerial photograph has a score less than 10.

The National Wetland Inventory Map and LaGrange County Soil Survey were included in the wetland delineation report. Aerial photographs were reviewed online on Google Earth and the NAIP. A minimum of five (5) years of aerial photographs that were determined to have normal precipitation based on the precipitation of the three (3) months preceding each aerial photograph flight were used to evaluate the percentage of occurrence of wetland signatures or hydrology indicators needed for a wetland determination. If five (5) years of normal precipitation aerial photographs were not available, then an equal number of wetter-than-normal and drier-than-normal aerial photographs will be selected to complete a set of at least five (5) years.

Wetland determination is based on the following convention list:

- 1) If wetland signature occurrence is equal to or greater than 50% of the reviewed aerial photographs, the area is marked as a wetland regardless of the NWI map indications.

**WETLAND MAPPING CONVENTIONS FOR AGRICULTURAL LAND
TOPEKA: LAGRANGE COUNTY, INDIANA**

- 2) If wetland signature occurrence is equal to or greater than 30% but less than 50% of the reviewed aerial photographs, and is verified by the NWI map, the area is marked as a wetland.
- 3) If wetland signature occurrence is equal to or greater than 30% but less than 50%, is not verified by the NWI map, the area is a potential wetland. An on-site investigation will be required for final verification.
- 4) If wetland signature occurrence is less than 30% of the reviewed aerial photographs, but is verified by the NWI map, the area is a potential wetland. An on-site investigation will be required for final verification.
- 5) If wetland signature occurrence is less than 30% of the reviewed aerial photographs, and cannot be verified by the NWI map, the area is marked Prior Converted if hydric soils are present, or marked as Non-wetland if hydric soils are not present.

Result and Conclusion:

The Topeka project site consists of active agricultural fields. The NWI identifies 1 wetland within the property boundary. The LaGrange County Soil Survey indicates the presence of one (1) mapped hydric soil with greater than 66% hydric components, Rensselaer Loam, within the project site. The areas of hydric soil within the agricultural field were evaluated for wetland signatures.

Of the available Google Earth and NAIP aerial photographs 2003, 2007, 2008, and 2020 aeriels were determined to be normal precipitation. Three (3) drier than normal years (2005, 2015, 2022) and three (3) wetter than normal years (2006, 2010, 2011) were also reviewed. A 1965 aerial photograph was also reviewed on the IHAPI website to determine if the agricultural field was cropped before 1965. The 1965 aerial photograph indicates the agricultural fields were cropped before 1965.

Area 1 is located on the western portion of the site, north of Todd Street. Wetland signatures were identified on 40% of the aerial photographs (2006, 2011, 2020, and 2022) and included stressed vegetation, saturated soils, and greener vegetation. Since wetland signatures were identified on greater than 30% but less than 50% of the reviewed aerial photographs, and is not verified by the NWI map, field investigation was required. Field investigation confirmed the area contain hydrophytic vegetation does (*Panicum dichotomiflorum*, *Persicaria pensylvanica*, *Ambrosia trifida*) and wetland hydrology indicators (Saturation visible on aerial imagery, geomorphic position, FAC-neutral test), therefore the area is marked as a wetland (Section II, Delineation Graphic T6).

Area 2 is located in the center of the site surrounding a pond within an agricultural field. Wetland signatures were identified on 100% of the reviewed aerial photographs (2003, 2005, 2006, 2007, 2008, 2010, 2011, 2015, 2020, and 2022) and included areas of stressed crops, saturated soils, and surface water. Since wetland signatures were identified on over 50% of the reviewed aerial photographs, a field investigation was conducted. The field investigation

PAGE 2 OF 5 (10/27/2022)

**WETLAND MAPPING CONVENTIONS FOR AGRICULTURAL LAND
TOPEKA: LAGRANGE COUNTY, INDIANA**

confirmed the area does contain hydrophytic vegetation (*Echinochloa crus-galli*, *Panicum dichotomiflorum*, *Eleocharis palustris*, *Persicaria pensylvanica*, *Phalaris arundinacea*, *Ambrosia trifida*) and wetland hydrology indicators (Geomorphic position, FAC-neutral test), therefore, the is classified as a wetland (Section I, Delineation Graphic T6).

Area 3 is located in the southwest corner of the site, north of Pleasant Drive and east of Golden Drive North. Wetland signatures were identified on 80% of the reviewed aerial photographs (2006, 2007, 2008, 2010, 2011, 2015, 2020, and 2022) and included patches of greener vegetation. Since wetland signatures were identified on over 50% of the reviewed aerial photographs, and is not verified by the NWI map, field investigation was required. Field investigation confirmed the area does contain hydrophytic vegetation (*Phalaris arundinacea*) but does not contain wetland hydrology indicators, therefore the area does not meet wetland criteria and is classified as Prior Converted.

Area 4 is located in the northeast section of the property, along the northern property boundary. Wetland signatures were identified on 30% of the reviewed aerial photographs (2008, 2010, and 2015) and included stressed vegetation. Since wetland signatures were identified on exactly 30% of the reviewed aerial photographs, and is not verified by the NWI map, a field investigation was required. The field investigation confirmed part of the area does not contain hydrophytic vegetation or wetland hydrology indicators, therefore the area does not meet wetland criteria and is classified as Prior Converted.

Area 5 is located in the northeast section of the property, along the eastern property boundary. Wetland signatures were identified in 30% of the reviewed aerial photographs (2006, 2010, 2011) and included stressed vegetation and patches of greener vegetation. Since wetland signatures were identified on exactly 30% of the reviewed aerial photographs, and is not verified by the NWI map, a field investigation was required. The field investigation confirmed the area does not contain hydrophytic vegetation or wetland hydrology, therefore the area does not meet wetland criteria and is classified as Prior Converted.

Area 6 is located in the center of the eastern portion of the property. Wetland signatures were identified on 20% of the reviewed aerial photographs (2010, 2011) and included stressed vegetation and patches of greener vegetation. Since wetland signatures were identified on less than 30% of the reviewed aerial photographs, and is not verified by the NWI map, a field investigation was conducted. The field investigation confirmed the area does not contain hydrophytic vegetation or wetland hydrology, therefore the area does not meet wetland criteria and is classified as Prior Converted.

**WETLAND MAPPING CONVENTIONS FOR AGRICULTURAL LAND
TOPEKA: LAGRANGE COUNTY, INDIANA**

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**WETLAND MAPPING CONVENTIONS FOR AGRICULTURAL LAND
TOPEKA: LAGRANGE COUNTY, INDIANA**


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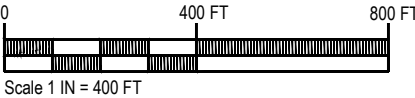
Project Name:
TOPEKA SUBDIVISION

Agent:



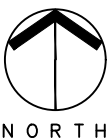
Earth-Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 Fax (260) 489-8607

**2022 AERIAL PHOTOGRAPH MAP
(DRIER-THAN-NORMAL CONDITIONS)**




Applicant:
**TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571**

State: INDIANA		County: LAGRANGE	
Township Name: CLEARSPRING			
Township: T36N	Range: R8E	Section: SEC 30	
Quadrangle: TOPEKA (IN)			
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°			
Date: 10-27-2022		Attachment: D1	



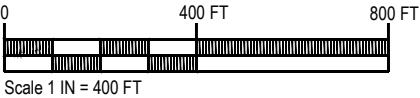
Project Name:
TOPEKA SUBDIVISION

Agent:



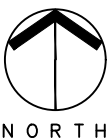
Earth-Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 Fax (260) 489-8607

**2020 AERIAL PHOTOGRAPH MAP
(NORMAL CONDITIONS)**




Applicant:
**TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571**

State: INDIANA		County: LAGRANGE
Township Name: CLEARSPRING		
Township: T36N	Range: R8E	Section: SEC 30
Quadrangle: TOPEKA (IN)		
Latitude/Longitude (WGS 84): 41.545243° , -85.534121°		
Date: 10-27-2022	Attachment: D2	



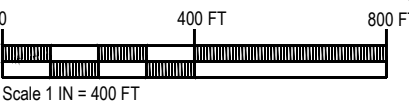
Project Name:
TOPEKA SUBDIVISION

Agent:



Earth-Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 Fax (260) 489-8607

**2015 AERIAL PHOTOGRAPH MAP
(DRIER-THAN-NORMAL CONDITIONS)**




Applicant:
**TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571**

State: INDIANA		County: LAGRANGE	
Township Name: CLEARSPRING			
Township: T36N	Range: R8E	Section: SEC 30	
Quadrangle: TOPEKA (IN)			
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°			
Date: 10-27-2022		Attachment: D3	



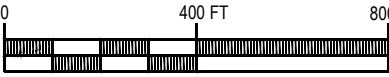
Project Name:
TOPEKA SUBDIVISION

Agent:



Earth-Source Inc
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**2011 AERIAL PHOTOGRAPH MAP
(WETTER-THAN-NORMAL CONDITIONS)**



Scale 1 IN = 400 FT


Applicant:
**TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571**

State: INDIANA		County: LAGRANGE	
Township Name: CLEARSPRING			
Township: T36N	Range: R8E	Section: SEC 30	
Quadrangle: TOPEKA (IN)			
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°			
Date: 10-27-2022		Attachment: D4	



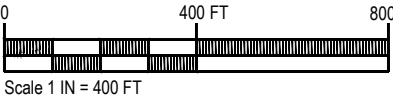
Project Name:
TOPEKA SUBDIVISION

Agent:



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**2010 AERIAL PHOTOGRAPH MAP
(WETTER-THAN-NORMAL CONDITIONS)**




Applicant:
**TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571**

State: INDIANA		County: LAGRANGE
Township Name: CLEARSPRING		
Township: T36N	Range: R8E	Section: SEC 30
Quadrangle: TOPEKA (IN)		
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°		
Date: 10-27-2022	Attachment: D5	



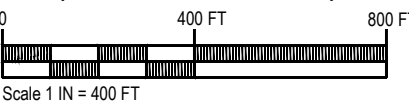
Project Name:
TOPEKA SUBDIVISION

Agent:



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**2008 AERIAL PHOTOGRAPH MAP
(NORMAL CONDITIONS)**




Applicant:
**TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571**

State: INDIANA		County: LAGRANGE	
Township Name: CLEARSPRING			
Township: T36N	Range: R8E	Section: SEC 30	
Quadrangle: TOPEKA (IN)			
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°			
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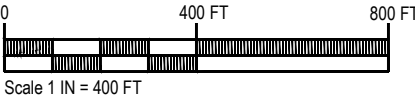
Project Name:
TOPEKA SUBDIVISION

Agent:



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**2007 AERIAL PHOTOGRAPH MAP
(NORMAL CONDITIONS)**




Applicant:
**TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571**

State: INDIANA		County: LAGRANGE
Township Name: CLEARSPRING		
Township: T36N	Range: R8E	Section: SEC 30
Quadrangle: TOPEKA (IN)		
Latitude/Longitude (WGS 84): 41.545243° , -85.534121°		
Date: 10-27-2022	Attachment: D7	



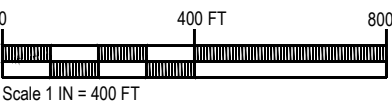
Project Name:
TOPEKA SUBDIVISION

Agent:



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**2006 AERIAL PHOTOGRAPH MAP
(WETTER-THAN NORMAL CONDITIONS)**




Applicant:
**TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571**

State: INDIANA		County: LAGRANGE
Township Name: CLEARSPRING		
Township: T36N	Range: R8E	Section: SEC 30
Quadrangle: TOPEKA (IN)		
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°		
Date: 10-27-2022	Attachment: D8	



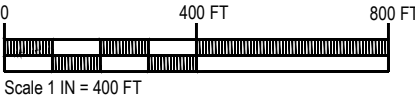
Project Name:
TOPEKA SUBDIVISION

Agent:



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**2005 AERIAL PHOTOGRAPH MAP
(DRIER-THAN-NORMAL CONDITIONS)**



Scale 1 IN = 400 FT


Applicant:
**TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571**

State: INDIANA		County: LAGRANGE	
Township Name: CLEARSPRING			
Township: T36N	Range: R8E	Section: SEC 30	
Quadrangle: TOPEKA (IN)			
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°			
Date: 10-27-2022		Attachment: D9	



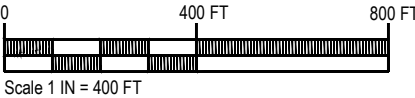
Project Name:
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Agent:



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**2003 AERIAL PHOTOGRAPH MAP
(NORMAL CONDITIONS)**




Applicant:
**TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571**

State: INDIANA		County: LAGRANGE
Township Name: CLEARSPRING		
Township: T36N	Range: R8E	Section: SEC 30
Quadrangle: TOPEKA (IN)		
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°		
Date: 10-27-2022	Attachment: D10	



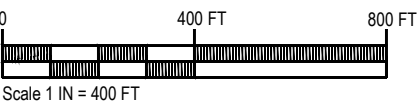
Project Name:
TOPEKA SUBDIVISION

Agent:



Earth-Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 Fax (260) 489-8607

1965 AERIAL PHOTOGRAPH MAP



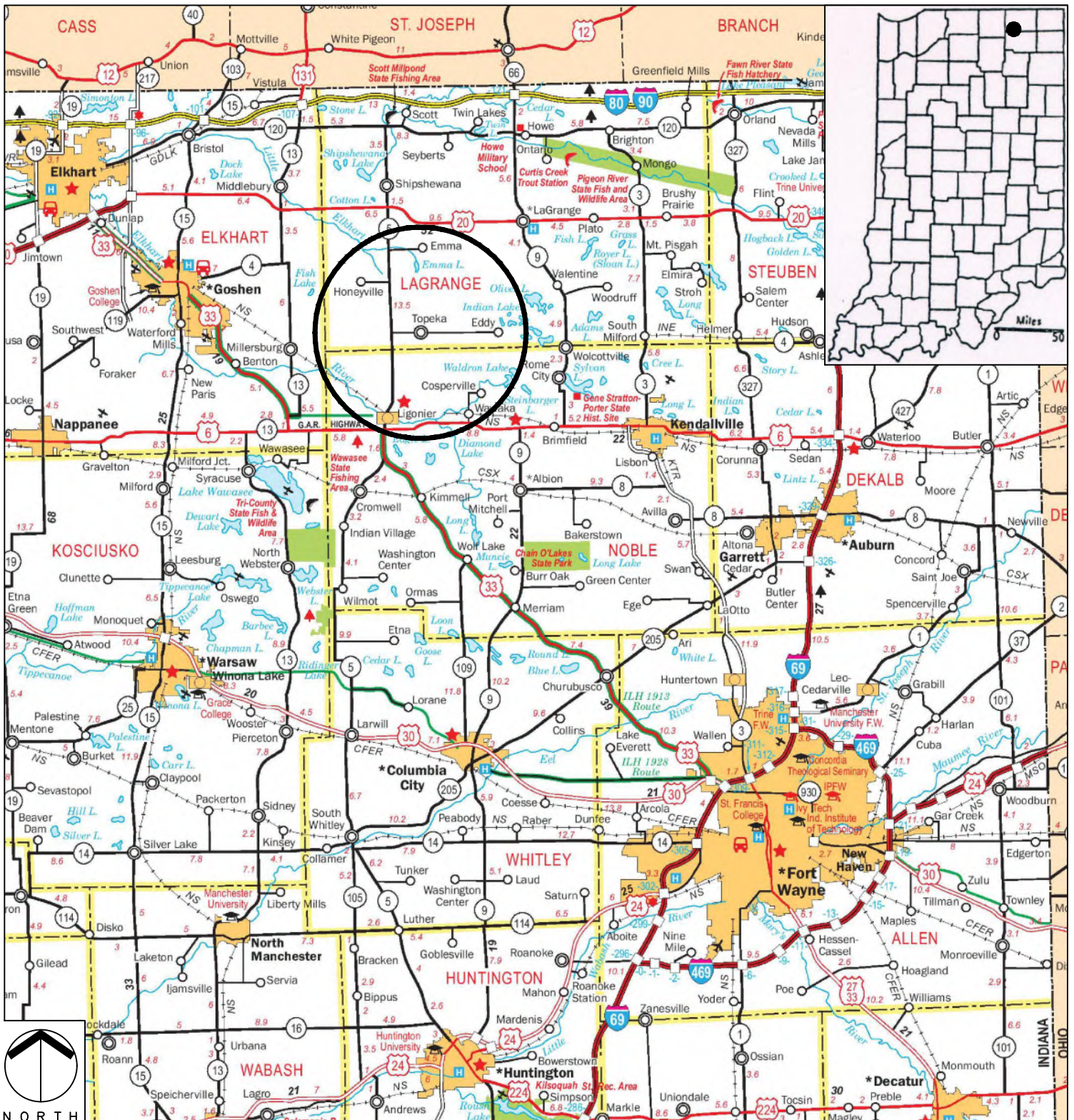
Applicant:

TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571

State: INDIANA		County: LAGRANGE
Township Name: CLEARSPRING		
Township: T36N	Range: R8E	Section: SEC 30
Quadrangle: TOPEKA (IN)		
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°		
Date: 10-27-2022	Attachment: D11	


DELINEATION GRAPHICS

REGIONAL LOCATION MAP	T1
PROJECT LOCATION MAP	T2
NATIONAL WETLANDS INVENTORY MAP	T3
LAGRANGE COUNTY SOIL SURVEY MAP	T4
2020 AERIAL PHOTOGRAPH MAP	T5
WETLAND DELINEATION MAP	T6
DATA POINT LOCATION MAP	T7



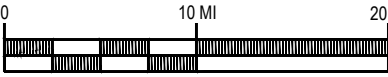
Project Name:
TOPEKA SUBDIVISION

Agent:



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(260) 489-8511 Fax (260) 489-8607

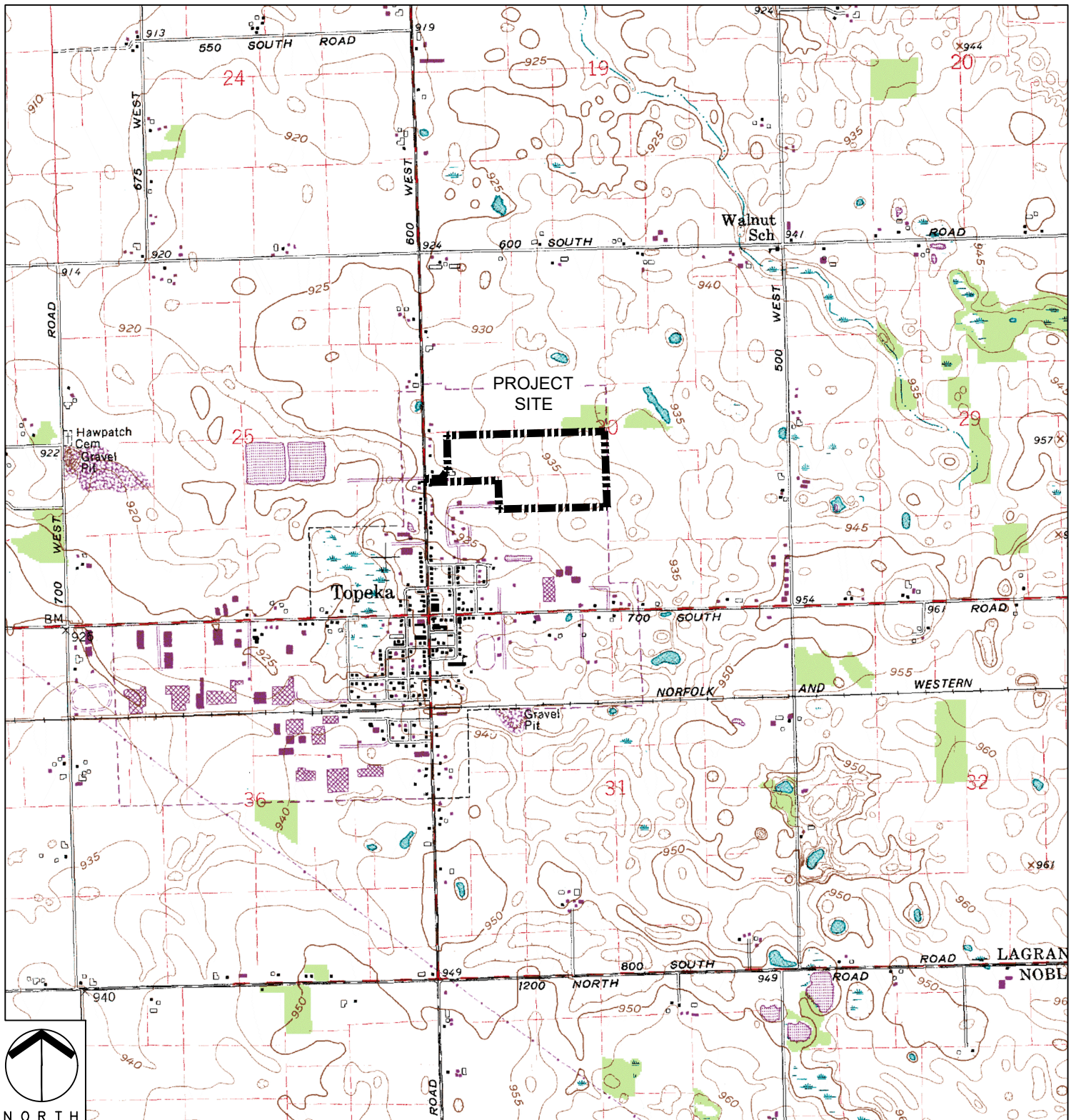
REGIONAL LOCATION MAP



Applicant:


TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571

State:		County:	
INDIANA		LAGRANGE	
Township Name:			
CLEARSPRING			
Township:	Range:	Section:	
T36N	R8E	SEC 30	
Quadrangle:			
TOPEKA (IN)			
Latitude/Longitude (WGS 84):			
41.545243°, -85.534121°			
Date:		Attachment:	
10-27-2022		T1	



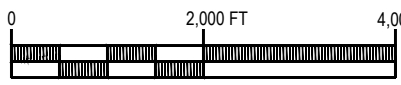
Project Name:
TOPEKA SUBDIVISION

Agent:



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14921 Hand Road, Fort Wayne, IN 46818
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PROJECT LOCATION MAP

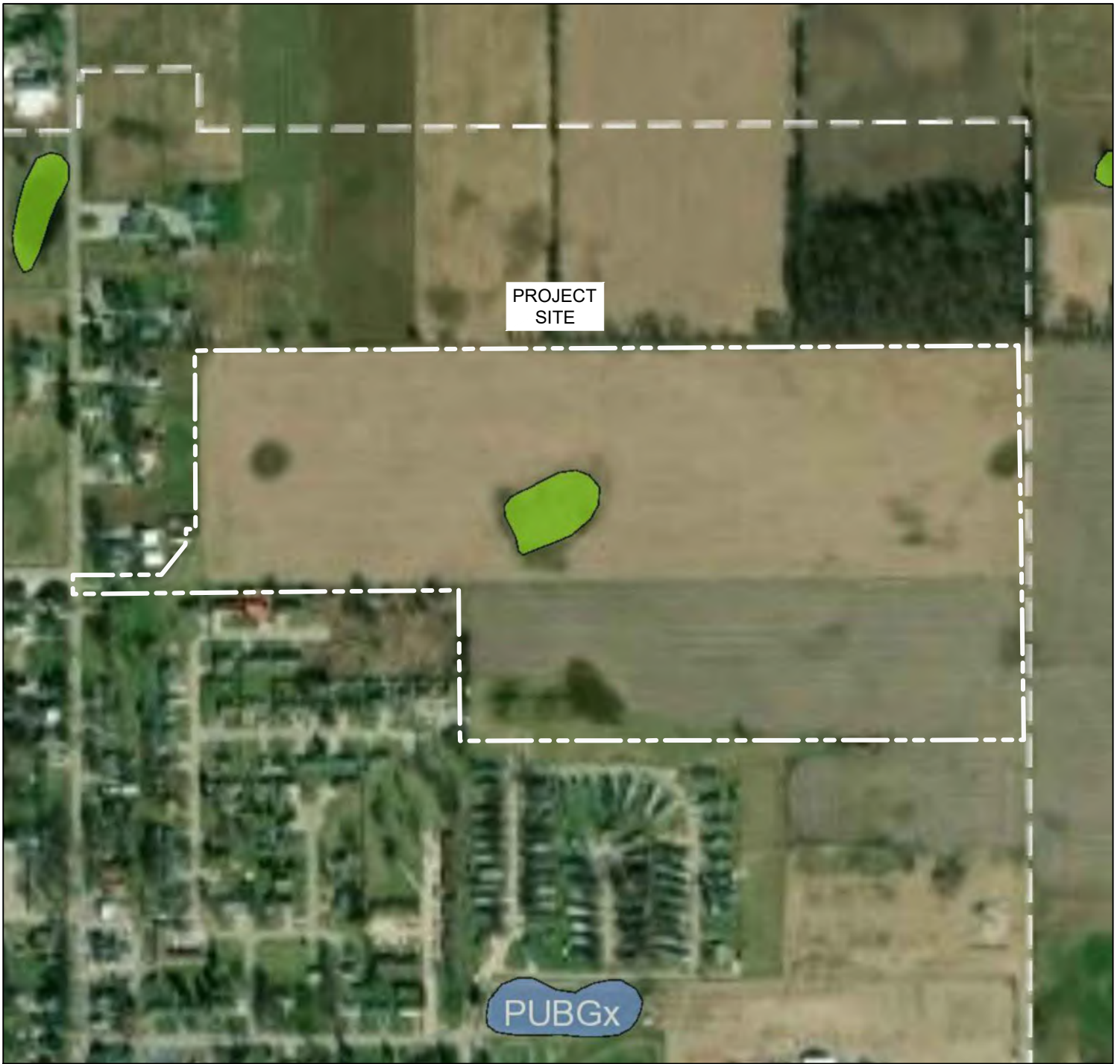


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Applicant:

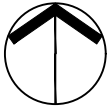
TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571

State: INDIANA		County: LAGRANGE	
Township Name: CLEARSPRING			
Township: T36N	Range: R8E	Section: SEC 30	
Quadrangle: TOPEKA (IN)			
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°			
Date: 10-27-2022		Attachment: T2	



PROJECT SITE

PUBGx

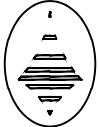


NORTH

Wetlands		Freshwater Emergent Wetland	Lake
	Estuarine and Marine Deepwater		
	Estuarine and Marine Wetland		
	Freshwater Forested/Shrub Wetland		
	Freshwater Pond		

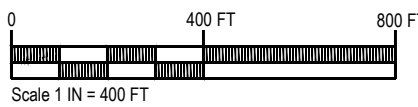
Project Name:
TOPEKA SUBDIVISION

Agent:



Earth-Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 Fax (260) 489-8607

NATIONAL WETLANDS INVENTORY MAP

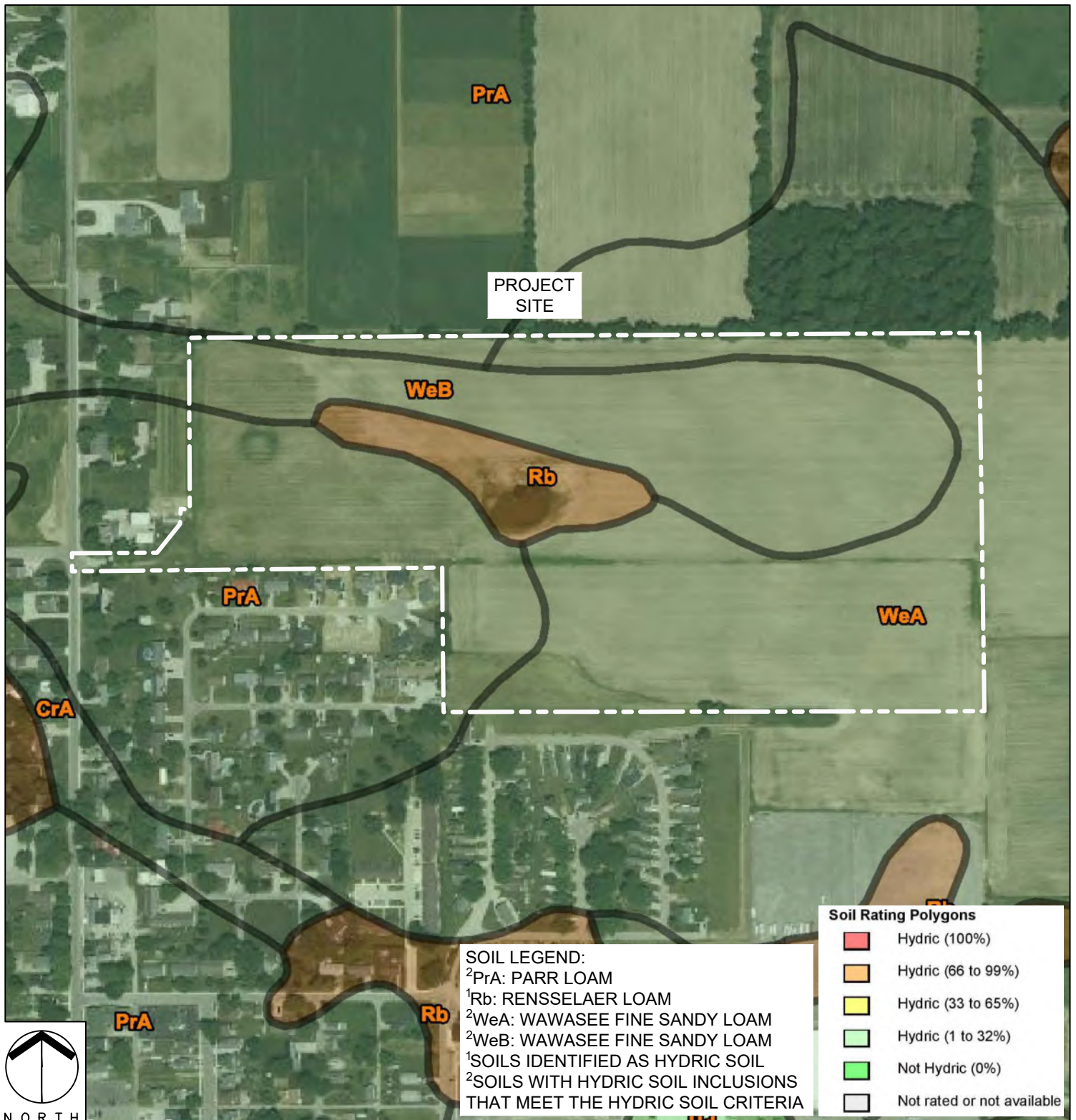


Applicant:

TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571


State: INDIANA		County: LAGRANGE
Township Name: CLEARSPRING		
Township: T36N	Range: R8E	Section: SEC 30
Quadrangle: TOPEKA (IN)		
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°		
Date: 10-27-2022	Attachment: T3	

Basemap: U.S. Fish and Wildlife Service. 2022. National Wetlands Inventory website. U.S. Department of the Interior, Fish and Wildlife Service. Washington, D.C. <http://www.fws.gov/wetlands/>.



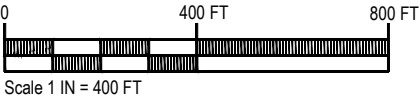
Project Name:
TOPEKA SUBDIVISION

Agent:



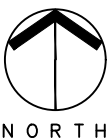
Earth-Source Inc
 14921 Hand Road, Fort Wayne, IN 46818
 (260) 489-8511 Fax (260) 489-8607

**LAGRANGE COUNTY
SOIL SURVEY MAP**




Applicant:
**TOWN OF TOPEKA
 124 E. LAKE STREET
 P.O. BOX 127
 TOPEKA, INDIANA 46571**

State: INDIANA		County: LAGRANGE
Township Name: CLEARSPRING		
Township: T36N	Range: R8E	Section: SEC 30
Quadrangle: TOPEKA (IN)		
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°		
Date: 10-27-2022	Attachment: T4	



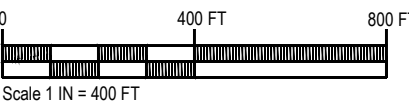
Project Name:
TOPEKA SUBDIVISION

Agent:



Earth-Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 Fax (260) 489-8607

2020 AERIAL PHOTOGRAPH MAP



Applicant:


TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571

State: INDIANA		County: LAGRANGE
Township Name: CLEARSPRING		
Township: T36N	Range: R8E	Section: SEC 30
Quadrangle: TOPEKA (IN)		
Latitude/Longitude (WGS 84): 41.545243° , -85.534121°		
Date: 10-27-2022	Attachment: T5	



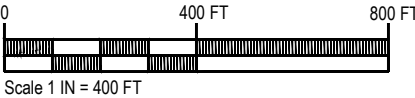
Project Name:
TOPEKA SUBDIVISION

Agent:



Earth-Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 Fax (260) 489-8607

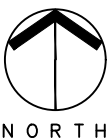
WETLAND DELINEATION M AP



Applicant:

TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571


State: INDIANA		County: LAGRANGE	
Township Name: CLEARSPRING			
Township: T36N	Range: R8E	Section: SEC 30	
Quadrangle: TOPEKA (IN)			
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°			
Date: 10-27-2022		Attachment: T6	



DATA POINT LOCATION

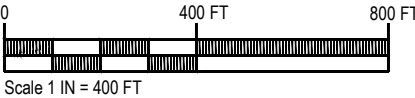
Project Name:
TOPEKA SUBDIVISION

Agent:



Earth-Source Inc
14921 Hand Road, Fort Wayne, IN 46818
(260) 489-8511 Fax (260) 489-8607

DATA POINT LOCATION MAP



Applicant:
TOWN OF TOPEKA
124 E. LAKE STREET
P.O. BOX 127
TOPEKA, INDIANA 46571

State: INDIANA		County: LAGRANGE	
Township Name: CLEARSPRING			
Township: T36N	Range: R8E	Section: SEC 30	
Quadrangle: TOPEKA (IN)			
Latitude/Longitude (WGS 84): 41.545243°, -85.534121°			
Date: 10-27-2022		Attachment: T7	

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**LAND PLANNING - LANDSCAPE ARCHITECTURE
CONSTRUCTED WETLANDS - WATERSHED ANALYSIS - HABITAT DESIGN
WETLAND DELINEATION, MITIGATION AND MONITORING
SECTION 10, 401 AND 404 PERMITTING**

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