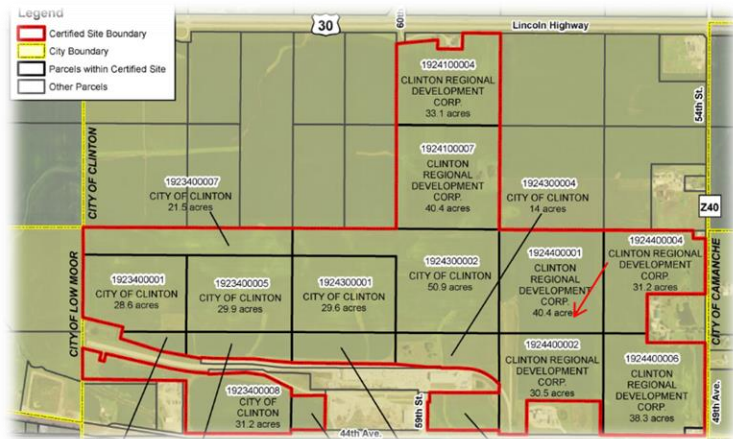


# Wetland and Waters of the United States Delineation Report

Lincolnway Industrial Rail and Air Park Site Recertification  
Intersection of US Highway 30 and 49<sup>th</sup> Avenue  
Clinton, Clinton County, Iowa

May 12, 2022

Terracon Project No. 06227010



**Prepared for:**

Clinton Regional Development Corporation  
Clinton, Iowa

**Prepared by:**

Terracon Consultants, Inc.  
Cedar Rapids, Iowa



May 12, 2022

Clinton Regional Development Corporation  
721 South 2<sup>nd</sup> Street  
Clinton, Iowa 52732

Attn: Mr. Andy Sokolovich  
P: (563) 242-4536  
E: [asokolovich@clintondevelopment.com](mailto:asokolovich@clintondevelopment.com)

**RE: Wetland and Waters of the United States Delineation Report**  
Lincolnway Industrial Rail and Air Park Site Recertification  
Intersection of US Highway 30 and 49<sup>th</sup> Avenue  
Clinton, Iowa 57732  
Terracon Project No. 06227010

Dear Mr. Sokolovich:

Terracon is pleased to submit this wetland and Waters of the United States (WOUS) delineation report (the delineation report) to the Clinton Regional Development Corporation (CRDC) for the Lincolnway Industrial Rail and Air Park Iowa Sites Recertification in Clinton, Iowa. The delineation report addresses federal Clean Water Act (CWA) requirements as they may affect the above referenced proposed project in Clinton, Iowa. These services were conducted in general accordance with our revised proposal (Terracon Proposal No. P06227010R), dated February 23, 2022.

According to the survey results, 10 wetland areas consisting of approximately 6.77-acres, and approximately 6,960 lineal feet drainages were identified on the approximately 460-acre site. Based on review of available documentation, it appears that Wetland Area(s) 7 and 9 as indicated on Exhibits 6A and 6B in Appendix A are isolated and may not have connectivity to WOUS, therefore, we believe that it would not be considered jurisdictional and not regulated by the U.S. Army Corps of Engineers (USACE).

Terracon recommends submitting a copy of the delineation report to the USACE for their official review and an Approved Jurisdictional Determination (AJD).

At this time, we understand that CRDC will be responsible for any required permitting (Section 404 Permit Application), mitigation planning, alternatives analysis, etc. that may be required if there are impacts to jurisdictional WOUS, including wetlands. Based on recent correspondence received from the Rock Island USACE Regulatory Branch, we understand that the District has indicated that AJD requests, not associated with a permit, are a low review priority. As such, we recommend that CRDC submit a permit application when practicable.

Terracon Consultants, Inc. 2640 12<sup>th</sup> Street SW Cedar Rapids, Iowa 52404  
P [319] 366-8321 F [319] 366-0032 [terracon.com](http://terracon.com)

**Wetland and Waters of the United States Delineation Report**

Proposed Iowa Premium Expansion ■ Tama, Iowa

May 12, 2022 ■ Terracon Project No. 06227010



With CRDC's written directive, a copy of this delineation report and attached cover letter will be submitted to the USACE for review and concurrence. The USACE address is as follows:

U.S. Army Corps of Engineers – Rock Island District  
Clock Tower Building  
Attention: Regulatory Branch  
P.O. Box 2004,  
Rock Island, IL 61204-2004  
Email: [iowaregulatory@usace.army.mil](mailto:iowaregulatory@usace.army.mil)

Terracon appreciates the opportunity to have worked with CRDC on this project. If you have questions regarding the content of this report, please contact Jordan at 319-363-8298 or by e-mail at [jordan.smith@terracon.com](mailto:jordan.smith@terracon.com).

Sincerely,

**Terracon Consultants, Inc.**

Jordan M. Smith  
Staff Scientist  
Enclosures  
Copies to: Addressee (email)

For

Scott E. West  
Approved Project Reviewer

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**LIST OF APPENDICIES**

**APPENDIX A – EXHIBITS**

- Exhibit 1 – Topographic Site Map
- Exhibit 2A – ArcGIS Wetland Map
- Exhibit 2B – National Wetlands Inventory Map
- Exhibit 3 – Soil Survey Map
- Exhibit 4 – Hillshade From Lidar Map
- Exhibit 5 – FEMA Floodplain Map
- Exhibit 6A – Wetland Delineation Map (North)
- Exhibit 6B – Wetland Delineation Map (South)
- Exhibit 7 – Topographic Site Map with Wetlands and WOUS Locations

**APPENDIX B – AERIAL PHOTOGRAPHS**

**APPENDIX C – USDA/NRCS DOCUMENTATION**

**APPENDIX D – WETLAND DETERMINATION DATA FORMS**

**APPENDIX E – PHOTOGRAPHIC DOCUMENTATION**

## WETLAND AND WATERS OF THE UNITED STATES DELINEATION REPORT LINCOLNWAY INDUSTRIAL RAIL AND AIR IOWA SITES RECERTIFICATION CLINTON, IOWA

**Terracon Project No. 06227010  
 May 12, 2022**

### 1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) was retained by Clinton Regional Development Corporation (CRDC) to perform a wetland and Waters of the United States (WOUS) delineation on a site located at the intersection of US Highway 30 and 49<sup>th</sup> Avenue in Clinton, Iowa. The subject site consists of approximately 460-acres and is depicted on Exhibits 1 and 2 in Appendix A and is further described in the table below.

#### 1.1 Site Location

Item	Description		
<b>Project Location</b> (Exhibit 1 in Appendix A)	Parts of Section(s) 22, 23, 26, and 27 Township 89N, range 02W Dyersville, Dubuque County, Iowa, including the following parcels:		
	Parcel No.	Approximate Area (Acres)	Owner
		33.1	CRDC
		40.4	CRDC
	1924100004	31.2	CRDC
	1924100007	40.4	CRDC
	1924400004	50.9	City
	1924400001	29.6	City
	1924300002	21.5	City
	1924300001	29.9	City
	1923400007	28.6	City
	1923400005	4.2	City
	1923400001	10.7	City
	1923400002	31.2	City
	1923400006	4.3	City
	1923400008	12.1	City
	1924300008	14	City
	1924300003	10	City
	1924300004	30.5	CRDC
	1924300010	38.3	CRDC
1924400002			
1924400006			
<b>Total</b>	<b>460.3</b>		

Item	Description
<b>Existing Improvements</b>	The site is comprised of eighteen parcels and is generally utilized for agricultural row crops to the north, east and west and surrounds an industrial park with a railroad.
<b>Existing Topography</b> (Exhibit 1 in Appendix A)	The site generally slopes towards the south-southwest, with surface elevations ranging from about 675 in the northeast corner to 625 feet near the southeast corner.

## 1.2 Proposed Project Description

Clinton Regional Development Corporation is seeking the WOUS and wetland delineation as part of their Iowa Sites recertification process.

## 2.0 SCOPE OF SERVICES

The purpose of performing the delineation was to characterize the current site conditions and observe the site for the presence of suspect WOUS, including wetlands. The services were performed in general accordance with our proposal (Terracon Proposal No. P06227010R, dated February 23, 2022), the 1987 Corps of Engineers Wetlands Delineation Manual and the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region. According to U.S. Army Corps of Engineers (USACE) guidelines, wetlands generally have three essential characteristics: hydrophytic (wetland) vegetation, hydric soils, and wetland hydrology.

Terracon’s scope of services generally included the following:

- Review of several maps and aerial photograph resources to assist with identifying suspect WOUS and wetland areas at or near the site;
- Delineation field services within the subject site;
- Completion of this delineation report that includes;
  - The aforementioned review items,
  - The delineation rationale and field techniques,
  - A discussion of our findings, and
  - Exhibits showing wetland areas, WOUS, and drainages identified during the field services.

## 3.0 PRELIMINARY DATA GATHERING AND ANALYSIS

Prior to performing the delineation, several map and aerial photograph resources were reviewed to assist with identifying WOUS and wetland areas at the subject site. Each source of data is described in detail below.

### 3.1 Topographic Site Map

The United States Department of the Interior Geologic Survey (USGS) 7.5-Minute Topographic Map of the subject site was reviewed to identify drainages or WOUS within the subject area. A portion of the *Clinton, Iowa* Quadrangle can be seen as Exhibit 1 in Appendix A. As shown on Exhibit 1 in Appendix A, the site appears to slope from the east-northeast to the west-southwest.

### 3.2 National Wetland Inventory Map

Utilizing the United States Department of the Interior's Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) Mapper website<sup>1</sup>, and layers available on ArcGIS (the ArcGIS NWI)<sup>2</sup>, Terracon reviewed areas at the site to identify potential wetland areas. It should be noted that the two sources depict different features, therefore we have included both as attachments. The ArcGIS information is presented on Exhibit 2A in Appendix A and the NWI from USFWS is presented as Exhibit 2B in Appendix A.

The NWI maps depict probable wetland and WOUS areas based on stereoscopic analysis of high-altitude aerial photographs. It is Terracon's understanding that the published data is not regularly updated and has not been validated in the field. The review of the NWI and ArcGIS NWI indicated the following:

#### Exhibit 2A in Appendix A:

- No on-site wetlands or WOUS features identified

#### Exhibit 2B in Appendix A:

- No on-site wetlands or WOUS features identified

Several other wetland features are depicted on adjoining site in both exhibits.

### 3.3 Soil Survey Information

Terracon utilized the U.S. Department of Agriculture Soil Conservation Service, now known as the Natural Resource Conservation Service (NRCS) on-line Web Soil survey (WSS)<sup>3</sup> to identify soil types and hydric soils. The NRCS soil survey map from the Natural Resources Geographic Information Systems Library (NRGIS) can be seen as Exhibit 3 in Appendix A. Please note that there may differences between the WSS soils listings and the NRGIS site.

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<sup>1</sup> Posted at [www.fws.gov/wetlands/Data/Mapper.html](http://www.fws.gov/wetlands/Data/Mapper.html), accessed May 5, 2022

<sup>2</sup> Posted at <https://www.arcgis.com/home/item.html>, accessed May 5, 2022

<sup>3</sup> Posted at <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>, accessed October 26, 2021

The following soil types were identified at subject site, based on an area of inquiry search utilizing the WSS:

### Soil Types

Map Unit Symbol	Map Unit Name	National Hydric Soil List	County Hydric Soil List
133 (404468) <sup>4</sup>	Colo silty clay loam	Yes	Yes
175B (404469)	Dickinson fine sandy loam	No	No
184 (404382)	Klinger silt loam	Yes	Yes
214C (404386)	Rockton loam	No	No
217B (404389)	Ripon silt loam	No	No
284B (404395)	Flagler sandy loam	No	No
285D (404398)	Burkhart sandy loam	No	No
350 (404403)	Waukegan silt loam	No	No
350B (404404)	Waukegan silt loam	No	No
351 (404406)	Atterberry silt loam	Yes	Yes
377B (404413)	Dinsdale silt loam	No	No
404 (404417)	Thorp silt loam	Yes	Yes
412D (404421)	Sogn loam	No	No
760 (404459)	Ansgar silt loam	Yes	Yes
918 (404403)	Garwin silty clay loam	Yes	Yes
919 (404469)	Muscatine silt loam	Yes	Yes
920B (404386)	Tama silt loam	No	No
1152 (404406)	Marshan clay loam	Yes	Yes
2153 (3051767)	Shandep clay loam	Yes	Yes

The following hydric soils were listed on-site:

- The Colo silty clay loam (133) material consists of silty clay loam, is poorly drained, found on toe slopes and floodplains and typically has a slope of 0-2 percent slope. There are approximately 9.1-acres on-site.
- The Klinger silt loam (184) material consists of silt loam over silty clay loam, underlain by loam, is somewhat poorly drained, found on interfluves and summits and typically has a 1 to 4 percent slope. There are 8.5-acres on-site.
- The Atterberry silt loam (351) material consists of silt loam underlain by silty clay loam and followed by silt loam over loamy sand, is somewhat poorly drained, found

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<sup>4</sup> Soil survey map units differ from USDA NRCS Web Soil Survey. Boundaries between the two sources appear the same. Bracketed map unit symbol matches Appendix A, Exhibit 3 labels.

- at summits and interfluves and typically has a slope of 0 to 2 percent slope. There are approximately 53.8-acres on-site.
- The Thorp silt loam (404) material consists of silt loam underlain by silty clay loam followed by silt loam underlain by sandy loam, is very poorly drained, and found in depressions and on toe slopes typically with a 0 to 2 percent slope. There are approximately 7.1-acres on-site.
  - The Ansgar silt loam (760) material consists of silt loam over silty clay loam that is followed by loam, is poorly drained, and found in open depressions and summits typically with a 0 to 3 percent slope. There are approximately 86.7-acres on-site.
  - The Garwin silty clay (918) loam material consists of silty clay loam over silt loam followed by loamy fine sand, is poorly drained, found on summits and interfluves and typically with a 0 to 2 percent slope. There are approximately 75.4-acres on-site.
  - The Muscatine silt loam (919) material consists of silt loam over silty clay loam followed by silt loam over loamy fine sand, is somewhat poorly drained, found on interfluves and summits typically with a 0 to 2 percent slope. There are approximately 12.2-acres on-site.
  - The Marshan clay loam (1152) material consists of clay loam over silty clay loam followed by loam underlain by gravelly sand, is poorly drained, and found on stream terraces and toe slopes typically with a 0 to 2 percent slope. There are approximately 7.4-acres on-site.
  - The Shandep clay loam (2153) material consists of clay loam over loam followed by loamy sand, is very poorly drained, and found on stream terraces and treads typically with a 0 to 2 percent slope. There are approximately 2.7-acres on-site.

There are approximately 262.9-acres of hydric-rated soil on-site.

### **3.4 Hillshade Map**

Terracon reviewed the Hillshade Map of the site obtained from the ISU GIS Support and Research Facility<sup>5</sup> to assist in identifying suspect areas (lowlands, depressions, or stream channel). The Hillshade Map uses LIDAR data to depict the approximate topography of the site. The Hillshade Map can be seen as Exhibit 4 in Appendix A. As shown on Exhibit 4, there are several defined apparent drainage swales generally located on the central portion of the site to the south. A slight apparent drainage is noted in the general vicinity of delineated Wetland1 and Drainage 1. Another apparent drainage is visible along the eastern site boundary in the general vicinity of delineated Wetlands 6, 7 and 8 as well as Drainage 5. There are also many other noticeable but not as well-defined drainage features throughout the site, presumably swales associated with farming activities.

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<sup>5</sup> Posted at <https://minneapolis.gis.iastate.edu/>, accessed October 26, 2021

### **3.5 Floodplain Map**

Terracon reviewed Federal Emergency Management Agency (FEMA) Flood Inundation Rate Map (FIRM)<sup>6</sup> panel no. 19045C0487E effective July 7, 2020 to identify areas that may be subjected to periodic flooding. Based on review of the FEMA Map Service Center (MSC) webpage<sup>7</sup>, the site is not within a flood zone, with the exception of a small portion of the southwest corner of the site in Zone A of the flood zone. Zone A is an area that is subject to inundation by the 1-percent-annual-chance flood event.

### **3.6 Climatic Data**

Terracon utilized the NRCS Field Office Technical Guide (FTOG) website<sup>8</sup> to prepare a precipitation analysis for the site. The FTOG site utilizes NRCS National Water and Climate Center (NWCC) historical climatic data from National Weather Service data stations throughout the United States. FTOG/NWCC “WETS” analysis data allows users to calculate the growing season limits and “normal” monthly and annual precipitation based on 30-years of accumulated temperature and rainfall records. Terracon also utilized a spreadsheet developed by the NRCS to evaluate the amount of precipitation received in the subject site area prior to the site visit. The spreadsheet utilizes precipitation data from the WETS data to evaluate whether the site is drier than normal, normal, or wetter than normal in the seven and thirty calendar days prior to the site visit. The evaluation utilized precipitation collected at the Clinton weather station.

Based on WETS information for the Clinton gauging station, the 2022 growing season began on April 11, 2022 and will end on approximately October 19, 2022, with a 191 day growing season length, utilizing a 50% probability of 28° Fahrenheit or higher for the criterion. Based on WETS information, it was drier than normal and normal 7 and 30 days, respectively, prior to the site visit.

A copy of the evaluation has not been included with this report.

### **3.7 USDA Information Review**

Since portions of the project area have recently been utilized for agricultural production, Terracon requested that landowners provide a release to review available USDA/Soil Conservation Service files to determine if farmed wetland determinations for the site exist. On April 6, 2022, Mr. Andy Sokolovich with CRDC, provided Terracon executed land owner releases for the parcels owned by CRDC and the City of Clinton. Based on review of the provided highly erodible land and

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<sup>6</sup> Posted at: <https://hazards-fema.maps.arcgis.com/apps/webappviewer/index> accessed May 9, 2022

<sup>7</sup> Posted at: <https://msc.fema.gov/portal/search> accessed May 9, 2022

<sup>8</sup> Posted at: [http://efotg.sc.egov.usda.gov/efotg\\_locator.aspx?map=US](http://efotg.sc.egov.usda.gov/efotg_locator.aspx?map=US), accessed May 9, 2022

wetland conservation determination for the provided tracts, areas of wetlands were not identified, with the exception of the following:

Farm Number	Tract Number	Type	Acres Present	Location
257	T2564	Farmed Wetland	2.2	Centrally located on T2564
257	T2564	Wetland <sup>9</sup>	6.5	Eastern boundary of T2564 (Wetland 6)
257	T2546	Wetland	2.1	Along eastern boundary of far north parcel (Wetland 9)
3428	T3184	Prior-Converted Wetland	1.2	Located centrally on-site
3428	T3183	Prior-Converted Wetland	0.6	

The USDA/Soil Conservation Service documentation can be found in Appendix C.

### 3.8 Aerial Photographs

Terracon reviewed aerial photographs obtained from the Iowa Geographic Map Server<sup>10</sup> to identify suspect areas on the subject site. Aerial photographs from the 1930s, 1940s, 1950s, 1960s, 1970s, 1980s, 1990s, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2013, 2014, 2015, 2017 and 2019 were reviewed and have been included in Appendix B. A summary of the aerial photography is as follows:

The site appears to be primarily utilized for agricultural purposes with an apparent farmstead present by at least the 1930's and last observed in the 2011 aerial. Apparent drainage features are also observed as early as the 1930s. There is an apparent well-defined drainage area generally located in the general vicinity of Wetland 6. Overtime, the drainage swales generally appear to change in shape, size and location, most likely based on farming practices and saturation conditions at that time. By at least 2013, the farmstead appears to be gone and apparent grading activities are taking place adjoining the former farmstead. By 2014, there are apparent commercial and/or industrial activities taking place at the area adjoining south of the middle portion of the site, as well as the addition of a railroad tie-in. The area along the east boundary of the north most tract of land, there is an area that appears to be unfarmed since at

<sup>9</sup> Please note that while reviewing highly erodible land and wetland conservation forms, a wetland mapped out in 1989 was not called out as a wetland in 2007. It should also be noted that notes in this file indicate that the drainage was manipulated and drainage tile was installed. Numerous drainage tile outlets were observed discharging to the drainage and wetland area.

<sup>10</sup> Posted at- <http://cairo.gis.iastate.edu/map.htm>

least 1930. This area is in the general vicinity of Wetland 9. The rest of the site appears to remain developed as agricultural row crops until at least 2019.

## **4.0 FIELD TECHNIQUES**

On April 14, 2022, Mr. Jordan Smith, Staff Scientist conducted a reconnaissance of the entire approximately 460-acre site to characterize existing site conditions and to identify the presence of potential jurisdictional wetlands and WOUS, if any. Characteristics of potential jurisdictional wetlands and WOUS were assessed (when applicable) utilizing the criteria detailed in sections 4.1 and 4.2 of this report. Terracon used technical criteria, field indicators, historic aerial photographs, and other sources of information to evaluate the subject site. The evaluation methods generally followed the routine on-site determination method referenced in the 1987 USACE Manual and 2010 Midwest Supplement.

### **4.1 Wetland Observations**

The USACE defines “wetlands” as “those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas” (33 CFR 328.3b). Wetlands generally have three essential characteristics: hydrophytic (wetland) vegetation, hydric soils, and wetland hydrology.

During the site reconnaissance, Terracon personnel traversed the subject site and several representative observation locations were selected within suspect wetland areas. A total of 24 data points were collected. Vegetation, soils and hydrology were evaluated within the suspect area to determine if wetland characteristics were present. Vegetation and hydrology observations were performed throughout the site and soils were evaluated to determine if hydric soils indicators were present. Data regarding the three essential characteristics was gathered within observed suspect wetland areas, to further delineate boundaries. The techniques for evaluating the plant community, soils, and hydrology are described in the following sections the data forms are provided in Appendix D.

### **4.2 Plant Community Assessment**

Suspect areas were visually observed to assess the species and absolute percentage of ground cover for four stratum of plant community types. Herbs were generally observed within a five-foot radius, shrubs/saplings within a fifteen-foot radius, and trees and vines within a thirty-foot radius of the observation location. Several representative observation locations were selected within the suspected wetland area to generally represent the vegetation characteristics of the whole community. The vegetation for the selected area was identified using A Manual on Aquatic Plants (Fassett, 1957), Midwestern Wetland Flora, A Field Office Guide to Plant Species (Mohlenbrock

and Mohlenbrock), Wildflowers of Iowa Woodlands, 2<sup>nd</sup> Edition (Runkel and Bull, 2009), Weeds of the Great Plains (Nebraska Department of Agriculture (2003), and Wildflowers and Other Plants of Iowa Wetlands (Runkel and Roosa, 1999) and other print sources.

For listed vegetation species present at the data points, the respective wetland indicator status was evaluated. Indicator status were assessed using the USACE National Wetland Plant List<sup>11</sup>. Indicator categories for vegetation are presented below:

- **Obligate Wetland (OBL)** - occur almost always (estimated probability greater than 99%) under natural conditions in wetlands.
- **Facultative Wetland (FACW)** - usually occur in wetlands (estimated probability 67% - 99%) but occasionally found in non-wetlands.
- **Facultative (FAC)** - equally likely to occur in wetlands or non-wetlands (estimated probability 34% - 66%).
- **Facultative Upland (FACU)** - usually occur in non-wetlands (estimated probability 67% - 99%) but occasionally found in wetlands.
- **Obligate Upland (UPL)** – rarely occur in wetlands, but occur almost always (estimated probability greater than 99%) under natural conditions in non-wetlands.

The percent cover of each stratum was assessed and dominance was evaluated. Dominant species were the most abundant species that accounted for more 20 percent of the absolute percent coverage of the stratum. The number of dominant species with an indicator status of OBL, FACW, and/or FAC was compared to the total number of dominant species across all strata. Typically, when more than 50 percent of the dominant species had an indicator status of OBL, FACW, and/or FAC, hydrophytic vegetation was present.

If the percentage of dominant species with an indicator status of OBL, FACW, and/or FAC was less than 50 percent, prevalence index and morphological adaptations may have been evaluated to confirm if hydrophytic vegetation was present or absent.

### **4.3 Hydric Soils Assessment**

After Terracon evaluated wetland vegetation, subsurface soil samples were collected using a soil probe. The samples were generally collected various depths below ground surface, but typically we tried to obtain a profile of 36-inches. Soils were visually compared to Munsell Soil Color Charts (Munsell, 2000), and the *Field Indicators of Hydric Soils in the United States* manual (USDA, NRCS, 2010) which aided in the evaluation of hydric soil characteristics. The soil samples were further examined for hydric soil indicators including, but not limited to, histosol, thick dark surface, sandy gleyed matrix, sandy redox, loamy gleyed matrix, redox dark surface, and/or redox depressions. If these or other hydric soil indicators were observed in the subsurface soil sample, the observation location was considered to have hydric soil.

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<sup>11</sup> Posted at: <http://rsgisias.crrel.usace.army.mil/NWPL/>

#### **4.4 Wetland Hydrology Assessment**

Visual indicators of wetland hydrology were evaluated. Examples of primary wetland hydrology indicators include, but are not limited to, surface water, high water table, soil saturation, water marks, sediment deposits, drift deposits, iron deposits, inundation visible on aerial imagery, sparsely vegetated concave surface, and water-stained leaves. Examples of secondary wetland hydrology indicators include, but are not limited to, surface soil cracks, drainage patterns, geomorphic positions, FAC-neutral test, and crayfish burrows. If at least one primary wetland hydrology indicator or two secondary wetland hydrology indicators were observed, the observation location was considered to have wetland hydrology.

#### **4.5 Classification of Wetlands**

Upon completion of the review of the three wetland criteria at each area, a wetland determination was made. Under normal circumstances, if one or more of the wetland criteria were not identified, the area was not considered to be a wetland. If all three wetland indicators were identified, the area was classified as wetland. Additional observations were made throughout the wetland area to define the wetland/non-wetland boundary, which was mapped with global positioning systems (GPS). Vegetation, soil and hydrology assessment data from at least one location within the wetland and one upland location outside of the wetland were recorded on a USACE Wetland Determination Form. The recorded data forms for the subject site can be found in Appendix D and the data point locations and wetland locations can be seen in the Exhibits 6 and 7 sheets presented in Appendix A.

#### **4.6 Waterbody Observations**

Terracon also made observations of any site features that may be considered a jurisdictional waterbody. If a potential jurisdictional waterbody was identified, observations regarding its characteristics were recorded. Potential jurisdictional waterbodies are typically evaluated based on the observation of the following characteristics:

- Flow Characteristics:
  - Perennial: contains water at all times except during extreme drought.
  - Intermittent: carries water a considerable portion of the time, but ceases to flow occasionally or seasonally.
  - Ephemeral: carries water only during and immediately after periods of rainfall or snowmelt.
- Ordinary High Water Mark: The limit line on the shore established by the fluctuation of the water surface. It is shown by such things as a clear line impressed on the bank, shelving, changes in soil character, destruction of terrestrial vegetation, the presence of litter and debris or other features influenced by the surrounding area.
- Bank Shape Descriptions:
  - Undercut: banks that overhang the stream channel

- Steep: bank slope of approximately greater than 30 degrees
- Gradual: bank slope of approximately 30 degrees or less
- Aquatic Habitat Descriptions:
  - Pool: deeper portion of a stream where water flows slower than in neighboring, shallower portions, smooth surface, and finer substrate
  - Riffle: shallow area in a stream where water flows swiftly over gravel and rock or other coarse substrate resulting in a rough flow and a turbulent surface
  - Run: section of a stream with a low or high velocity and with little or no turbulence on the surface of the water.

## 5.0 FINDINGS

Based on the field services, Terracon identified ten wetland areas consisting of approximately 6.77-acres, and 6,960-feet of WOUS on the subject site. The identified features are presented on Exhibits 6A and 6B in Appendix A. Wetland determination data forms for each wetland area are presented in Appendix D. Ground photographs, included in Appendix E, provide an indication of the physical characteristics observed during the site visit.

### 5.1 Wetlands

#### 5.1.1 Wetland1 (WL-1)

Wetland Description			
Wetland ID	Wetland 1		
Size	0.26 acres		
Sampling Point(s)	DP-1		
Photograph numbers (Appendix E)	1		
Association w/ WOUS	Yes. Rock Creek.		
Wetland Description	Palustrine, emergent, persistent and seasonally saturated		
NWI Map	None		
Cowardin Classification	(PEM1B)		
Wetland Type	Emergent		
Vegetative Cover	Dense		
Dominant Wetland Vegetation	<u>Common Name</u> Reed Canarygrass Soft-Stem Club-Rush Sandbar Willow	<u>Scientific Name</u> <i>Phalaris arundinacea</i> <i>Schoenoplectus tabernaemontarie</i> <i>Salix interior</i>	<u>WL Indicator</u> FACW OBL FACW
Hydrogeomorphic Class	Drainage		
Soil Type (soil survey)	Marshan clay loam (1152)		
Soil Type (field obs.)	Sandy clay		
Soil Characteristics	Redox dark surface		
Hydrology Characteristics	Saturation, high water table, drainage patterns, geomorphic position, and FAC-Neutral test		

Wetland Description	
Wetland ID	Wetland 1
Hydrology Source	Adjoining north off-site drainage culvert that is connected to apparent off-site adjacent north wetland.
Non-Wetland (Upland) Description	
Data Point(s)	DP-2
Habitat Type	Emergent
Was there a marked difference between the wetland and upland	Yes. Change in vegetation.
Was there a gradual change in vegetation between the wetland and upland creating a “transition zone”	Yes
Was there an abrupt topographic change between the wetland and upland	No

Wetland 1 (WL-1) is located near the western site boundary, adjoining south of the west end of the railroad tracks. Wetland 1 is between the west end of the railroad tracks and Rock Creek. This area is fed by an apparent adjacent north off-site wetland that is drained by a culvert that discharges into Wetland 1. Wetland 1 vegetation is dominated by *Phalaris arundinacea* (reed canarygrass), *Schoenoplectus tabernaemontarie* (soft-stem clubrush), and *Salix interior* (sandbar willow). Based on aerial imagery, apparent saturation and drainage patterns appear in the general vicinity of Wetland 1 as early as the 1930s. Aerial images can be seen in Appendix B.

Based on review of the FEMA floodplain map as presented in Appendix A, Exhibit 5, the south-west portion of the site generally south of the railroad is within Zone A.

Based on available information at this time, we believe that Wetland 1 may likely be regulated by the USACE.

### 5.1.2 Wetland2 (WL-2)

Wetland Description			
Wetland ID	Wetland 2		
Size	0.12 acres		
Sampling Point(s)	6		
Photograph numbers (Appendix E)	2		
Association w/ WOUS	No		
Wetland Description	Palustrine, emergent, persistent, and seasonally saturated		
NWI Map	PEM1B		
Cowardin Classification	Palustrine emergent, persistent, and seasonally saturated		
Wetland Type	Emergent		
Vegetative Cover	Dense		
Dominant Wetland Vegetation	<u>Common Name</u> Reed Canarygrass Soft-Stem Club-Rush	<u>Scientific Name</u> <i>Phalaris arundinacea</i> <i>Schoenoplectus tabernaemontarie</i>	<u>WL Indicator</u> FACW OBL

Wetland Description	
Wetland ID	Wetland 2
Hydrogeomorphic Class	Slope
Soil Type (soil survey)	Dinsdale silt loam (377B)
Soil Type (field obs.)	Loamy and clayey
Soil Characteristics	Redox dark surface
Hydrology Characteristics	Surface water, high water table, saturation, drainage patterns, geomorphic position, and FAC-neutral test
Hydrology Source	Toe-slope
Non-Wetland (Upland) Description	
Data Point(s)	DP-7
Habitat Type	Emergent
Was there a marked difference between the wetland and upland	Yes. On north side was hillside.
Was there a gradual change in vegetation between the wetland and upland creating a "transition zone"	Yes.
Was there an abrupt topographic change between the wetland and upland	Yes. On north side was hillside.

Wetland 2 is adjoining north of Drainage 2, north of the mobile crane unit along the railroad tracks located in a toe slope, connecting to Wetland 10. Vegetation was dominated by *Phalaris arundinacea* (reed canarygrass), and *Schloenoplectus tabernaemontani* (soft-stem club-rush). Aerial imagery shows this area with an apparent farmstead until at least 2011. By 2013, apparent construction activities were taking place, and apparent building is on-site by 2014. Aerial images can be seen in Appendix B.

Based on review of the FEMA floodplain map as presented in Appendix A, Exhibit 5, this area is not within a flood zone.

Based on available information, we believe that Wetland 2 may be regulated by the USACE.

### 5.1.3 Wetland 3 (WL-3)

Wetland Description	
Wetland ID	Wetland 3
Size	0.09 acres
Sampling Point(s)	DP-8
Photograph numbers (Appendix E)	3
Association w/ WOUS	No
Wetland Description	Palustrine, emergent, persistent, and seasonally saturated
NWI Map	PEM1B
Cowardin Classification	Palustrine emergent, persistent, and seasonally saturated
Wetland Type	Emergent
Vegetative Cover	Dense

Wetland Description			
Wetland ID	Wetland 3		
Dominant Wetland Vegetation	<u>Common Name</u> Reed Canarygrass	<u>Scientific Name</u> <i>Phalaris arundinacea</i>	<u>WL Indicator</u> FACW
Hydrogeomorphic Class	Depressional, riverine		
Soil Type (soil survey)	Garwin silty clay loam (918)		
Soil Type (field obs.)	Loamy, clayey		
Soil Characteristics	Redox dark surface		
Hydrology Characteristics	High water table, saturation, drainage patterns, geomorphic position, and FAC-neutral test		
Hydrology Source	Farm-field runoff and potential drainage tile(s)		
Non-Wetland (Upland) Description			
Data Point(s)	DP-9		
Habitat Type	Emergent		
Was there a marked difference between the wetland and upland	Yes. Slightly concave.		
Was there a gradual change in vegetation between the wetland and upland creating a “transition zone”	Yes.		
Was there an abrupt topographic change between the wetland and upland	Minor abrupt topographic change due to wetland generally in concave area.		

Wetland 3 is adjoining north of Drainage 2, north of the main on-site building. Wetland 3 is in a slightly depressional area, apparently draining from north to south towards Drainage 2. Vegetation was dominated by *Phalaris arundinacea*. Aerial imagery shows this area with an apparent farmstead until at least 2011. By 2013, apparent construction activities were taking place, and apparent building is on-site by 2014. By 2015, there is an apparent drainage swale in the general vicinity of Wetland 3. Aerial images can be seen in Appendix B.

Based on review of the FEMA floodplain map as presented in Appendix A, Exhibit 5, this area is not within a flood zone.

Based on available information at this time, we believe that Wetland 3 may be regulated by the USACE.

#### 5.1.4 Wetland 4 (WL-4)

Wetland Description	
Wetland ID	Wetland 4
Size	0.33 acres
Sampling Point(s)	DP-10
Photograph numbers (Appendix E)	4
Association w/ WOUS	No
Wetland Description	Palustrine, emergent, persistent, and seasonally saturated
NWI Map	PEM1B
Cowardin Classification	Palustrine emergent, persistent, and seasonally saturated
Wetland Type	Emergent

Wetland Description			
Wetland ID	Wetland 4		
Vegetative Cover	Dense		
Dominant Wetland Vegetation	<u>Common Name</u> Reed Canarygrass Typha angustifolia	<u>Scientific Name</u> <i>Phalaris arundinacea</i> Narrow-Leaf Cat-Tail	<u>WL Indicator</u> FACW OBL
Hydrogeomorphic Class	Depressional		
Soil Type (soil survey)	Atterberry silt loam (351)		
Soil Type (field obs.)	Loamy, clayey		
Soil Characteristics	Redox dark surface		
Hydrology Characteristics	High water table, saturation, drainage patterns, geomorphic position, FAC-neutral test		
Hydrology Source	Surface water runoff from adjoining northwest off-site storage pond and culvert connecting to Wetland 5.		
Other Information	In a depressional area		
Non-Wetland (Upland) Description			
Data Point(s)	DP-11		
Habitat Type	Emergent, manicured		
Was there a marked difference between the wetland and upland	Yes. Change in elevation and plant cover.		
Was there a gradual change in vegetation between the wetland and upland creating a "transition zone"	Yes		
Was there an abrupt topographic change between the wetland and upland	Minor abrupt topographic change due to wetland generally in depressional area.		

Wetland 4 is located in a depressional drainage area near the northwest corner of the intersection of 21<sup>st</sup> Street and the railroad, positioned in a north-northwest orientation. Wetland 4 appears to continue off-site towards the northwest near the existing off-site industrial building. Vegetation was dominated by *Phalaris arundinacea* (reed canarygrass) and *Typha angustifolia* (narrow-leaf cat-tail). Based on aerial imagery, this area appeared to be utilized as agricultural row crops by at least the 1930s until 2008. By 2009, an apparent road is observed in a north to south orientation near the field boundary, and by 2010 apparent grading activities are taking place. The apparent railroad is observed by 2014. Aerial images can be seen in Appendix B.

Based on review of the FEMA floodplain map as presented in Appendix A, Exhibit 5, this area is not within a flood zone.

Based on available information at this time, we believe that Wetland 4 may be regulated by the USACE.

### 5.1.5 Wetland 5 (WL-5)

Wetland Description			
Wetland ID	Wetland 5		
Size	0.59 acres		
Sampling Point(s)	DP-14		
Photograph numbers (Appendix E)	5		
Association w/ WOUS	No		
Wetland Description	Palustrine, emergent, persistent, and seasonally saturated		
NWI Map	PEM1B		
Cowardin Classification	Palustrine emergent, persistent, and seasonally saturated		
Wetland Type	Emergent		
Vegetative Cover	Sparse		
Dominant Wetland Vegetation	<u>Common Name</u> Reed Canarygrass Dark-green bulrush Typha angustifolia	<u>Scientific Name</u> <i>Phalaris arundinacea</i> <i>Scirpus atrovirens</i> Narrow-Leaf Cat-Tail	<u>WL Indicator</u> FACW OBL OBL
Hydrogeomorphic Class	Depressional		
Soil Type (soil survey)	Ripon silt loam (217B), Atterberry silt loam (351)		
Soil Type (field obs.)	Loamy, clayey		
Soil Characteristics	Redox dark surface		
Hydrology Characteristics	Saturation, drainage patterns, geomorphic position, FAC-neutral test		
Hydrology Source	Wetland 4 (culvert), drainage from Drainage 4		
Non-Wetland (Upland) Description			
Data Point(s)	DP-15		
Habitat Type	Railbed		
Was there a marked difference between the wetland and upland	Yes. Change in elevation and plant cover.		
Was there a gradual change in vegetation between the wetland and upland creating a "transition zone"	No		
Was there an abrupt topographic change between the wetland and upland	Minor abrupt topographic change due to wetland generally in depressional area.		

Wetland 5 is located along the former railbed extending north from 21<sup>st</sup> Street. Wetland Area 5 surrounds the former railbed, generally in depressional areas. This area is connected to Wetland 4 by a culvert underneath of the former railbed, approximately 20-feet north of 21<sup>st</sup> Street. Vegetation was dominated by *Phalaris arundinacea* (reed canarygrass), *Scirpus atrovirens* (dark-green bulrush), and *Typha angustifolia* (narrow-leaf cat-tail). Based on aerial imagery, this area appeared to be utilized as agricultural row crops by at least the 1930s until 2008. By 2009, an apparent road is observed in a north to south orientation near the field boundary, and by 2010 apparent grading activities are taking place. The apparent railroad is observed by 2014. Aerial images can be seen in Appendix B.

Based on review of the FEMA floodplain map as presented in Appendix A, Exhibit 5, this area is not within a flood zone.

Based on available information at this time, we believe that Wetland 5 may be regulated by the USACE.

### 5.1.6 Wetland 6 (WL-6)

Wetland Description			
Wetland ID	Wetland 6		
Size	0.44 acres		
Sampling Point(s)	DP-16		
Photograph numbers (Appendix E)	6		
Association w/ WOUS	Yes. Rock Creek		
Wetland Description	Palustrine, emergent, persistent, and seasonally saturated		
NWI Map	PEM1B		
Cowardin Classification	Palustrine emergent, persistent, and seasonally saturated		
Wetland Type	Emergent		
Vegetative Cover	Dense		
Dominant Wetland Vegetation	<u>Common Name</u> Reed Canarygrass	<u>Scientific Name</u> <i>Phalaris arundinacea</i>	<u>WL Indicator</u> FACW
Hydrogeomorphic Class	Depressional		
Soil Type (soil survey)	Colo silty clay loam (133)		
Soil Type (field obs.)	Loamy, clayey, sandy		
Soil Characteristics	Redox dark surface		
Hydrology Characteristics	High water table, saturation, aquatic fauna, drainage patterns, crayfish burrows, geomorphic position, FAC-neutral test		
Hydrology Source	Adjoining north off-site pond and adjacent north off-site Wetland Area 8		
Non-Wetland (Upland) Description			
Data Point(s)	DP-17		
Habitat Type	Farmed		
Was there a marked difference between the wetland and upland	Yes. Change in elevation and plant cover.		
Was there a gradual change in vegetation between the wetland and upland creating a "transition zone"	No		
Was there an abrupt topographic change between the wetland and upland	Minor abrupt topographic change due to wetland generally in depressional area.		

Wetland 6 is located in a depressional area between two farmed fields. Wetland 6 appears to be fed from an adjoining north off-site pond. There is also an adjacent north off-site Wetland Area 8 located north of the off-site pond. Vegetation was dominated by *Phalaris arundinacea* (reed canarygrass). Aerial imagery shows Wetland 6 to have been farmed since at least the 1930's, with apparent drainage features in the general vicinity of Wetland 6 since that time as well. Aerial images can be seen in Appendix B.

Based on review of the FEMA floodplain map as presented in Appendix A, Exhibit 5, Wetland 6 does not extend into a flood zone.

Based on available information at this time, we believe that Wetland 6 may be regulated by the USACE.

### 5.1.7 Wetland 7 (WL-7)

Wetland Description			
Wetland ID	Wetland 7		
Size	0.07 acres		
Sampling Point(s)	DP-18		
Photograph numbers (Appendix E)	7		
Association w/ WOUS	No		
Wetland Description	Palustrine, emergent, persistent, and seasonally saturated		
NWI Map	PEM1B		
Cowardin Classification	Palustrine emergent, persistent, and seasonally saturated		
Wetland Type	Emergent		
Vegetative Cover	Dense		
Dominant Wetland Vegetation	<u>Common Name</u> Dark-green bulrush	<u>Scientific Name</u> <i>Scirpus atrovirens</i>	<u>WL Indicator</u> OBL
Hydrogeomorphic Class	Depressional		
Soil Type (soil survey)	Atterberry silt loam (351)		
Soil Type (field obs.)	Loamy, clayey, sandy		
Soil Characteristics	Redox dark surface		
Hydrology Characteristics	Saturation, high water table, saturation visible on aerial imagery, FAC-neutral test		
Hydrology Source	Surface water runoff, potential spring due to heavy saturation in highly isolated area		
Non-Wetland (Upland) Description			
Data Point(s)	DP-19		
Habitat Type	Farmed		
Was there a marked difference between the wetland and upland	Yes. Abrupt vegetation change.		
Was there a gradual change in vegetation between the wetland and upland creating a "transition zone"	No		
Was there an abrupt topographic change between the wetland and upland	Minor abrupt topographic change due to wetland generally in depressional area.		

Wetland 7 is located west of Wetland 6 on a hillside within a farmed field. Wetland 7 is surrounded to the north, east, south and west by a farmed field. This area appears to be isolated, with no apparent hydrology source. Due to the high-water table and saturation, there is the potential for a naturally occurring spring that was not observed. Vegetation was dominated by *Scirpus atrovirens* (dark-green bulrush). Aerial imagery shows Wetland 7 to have been utilized for agricultural row crops since at least the 1930s. Apparent saturation is observed by at least 2002 in the general vicinity of Wetland 7. Aerial images can be seen in Appendix B.

Based on review of the FEMA floodplain map as presented in Appendix A, Exhibit 5, Wetland 7 does not extend into a flood zone.

Based on available information at this time, we believe that Wetland 7 may be isolated and not regulated by the USACE.

### 5.1.8 Wetland 8 (WL-8)

Wetland Description			
Wetland ID	Wetland 8		
Size	0.83 acres		
Sampling Point(s)	DP-20		
Photograph numbers (Appendix E)	8		
Association w/ WOUS	Yes. Rock Creek		
Wetland Description	Palustrine, emergent, persistent, and seasonally saturated		
NWI Map	PEM1B		
Cowardin Classification	Palustrine emergent, persistent, and seasonally saturated		
Wetland Type	Emergent		
Vegetative Cover	Dense		
Dominant Wetland Vegetation	<u>Common Name</u> Reed Canarygrass	<u>Scientific Name</u> <i>Phalaris arundinacea</i>	<u>WL Indicator</u> FACW
Hydrogeomorphic Class	Depressional		
Soil Type (soil survey)	Colo silty clay loam (133)		
Soil Type (field obs.)	Loamy, clayey		
Soil Characteristics	Redox dark surface		
Hydrology Characteristics	Saturation, high water table, aquatic fauna, drainage patterns, crayfish burrows, FAC-neutral test		
Hydrology Source	Surface water, stormwater runoff from adjoining north, upgradient off-site farmstead		
Non-Wetland (Upland) Description			
Data Point(s)	DP-21		
Habitat Type	Farmed		
Was there a marked difference between the wetland and upland	Yes. Change in elevation and plant cover.		
Was there a gradual change in vegetation between the wetland and upland creating a “transition zone”	No		
Was there an abrupt topographic change between the wetland and upland	Minor abrupt topographic change due to wetland generally in depressional area.		

Wetland 8 is located in a generally depressional area adjacent north of Wetland 6 and Drainage 5, and is surrounded by farmed fields to the east and west. Wetland 8 is also located adjoining south of the off-site farmstead. The adjoining south farmstead has two ponds, which are in alignment with Wetland Areas 6 and 8. Vegetation was dominated by *Phalaris arundinacea* (reed canarygrass) Aerial imagery shows Wetland 8 to have apparent saturation and drainage patterns by at least the 1930s until at least 2021 in the general vicinity of Wetland 8. and persisting in recent aerial images. Aerial images can be seen in Appendix B.

Based on review of the FEMA floodplain map as presented in Appendix A, Exhibit 5, Wetland 8 does not extend into a flood zone.

Based on available information at this time, we believe that Wetland 8 may be regulated by the USACE.

### 5.1.9 Wetland 9 (WL-9)

Wetland Description			
Wetland ID	Wetland 9		
Size	0.34 acres		
Sampling Point(s)	DP-22		
Association w/ WOUS	Yes. Hewitt Creek		
Wetland Description	Palustrine, emergent, persistent, and seasonally saturated		
NWI Map	PEM1B		
Cowardin Classification	Palustrine emergent, persistent, and seasonally saturated		
Wetland Type	Emergent		
Vegetative Cover	Dense		
Dominant Wetland Vegetation	<u>Common Name</u> Reed Canarygrass Dark-green bulrush	<u>Scientific Name</u> <i>Phalaris arundinacea</i> <i>Scirpus atrovirens</i>	<u>WL Indicator</u> FACW OBL
Hydrogeomorphic Class	Slightly depressional		
Soil Type (soil survey)	Shandep clay loam (2153)		
Soil Type (field obs.)	Loamy, clayey		
Soil Characteristics	Redox dark surface		
Hydrology Characteristics	High water table, saturation, saturation visible on aerial imagery, FAC-neutral test		
Hydrology Source	Stormwater and surface water runoff, potential unobserved naturally occurring spring due to high water table and saturation		
Non-Wetland (Upland) Description			
Data Point(s)	DP-23		
Habitat Type	Farmed		
Was there a marked difference between the wetland and upland	Yes. Change in plant cover.		
Was there a gradual change in vegetation between the wetland and upland creating a "transition zone"	Yes		
Was there an abrupt topographic change between the wetland and upland	No		

Wetland 9 is located in an isolated area along the east fence line of the north most parcel. This area is in a slightly depressional area, with no apparent hydrology sources. Due to the heavy saturation and high water table, there is the potential for an unobserved naturally occurring spring. Vegetation was dominated by *Phalaris arundinacea* (reed canarygrass) and *Scirpus atrovirens* (dark-green bulrush). Aerial imagery shows Wetland 9 to have been utilized for agricultural row crops until at least the 1970s, with apparent saturation showing up in the general vicinity of Wetland 9 around the same time. Aerial images can be seen in Appendix B.

Based on review of the FEMA floodplain map as presented in Appendix A, Exhibit 5, Wetland 9 does not extend into a flood zone.

Based on available information at this time, we believe that Wetland 9 may be isolated and not regulated by the USACE.

### 5.1.10 Wetland 10 (WL-10)

Wetland Description			
Wetland ID	Wetland 10		
Size	3.70 acres		
Sampling Point(s)	DP-4		
Association w/ WOUS	No		
Wetland Description	Palustrine, emergent, persistent, temporarily flooded		
NWI Map	PEM1A		
Cowardin Classification	Palustrine, emergent, persistent, temporarily flooded		
Wetland Type	Emergent		
Vegetative Cover	Sparse		
Dominant Wetland Vegetation	<u>Common Name</u> Reed Canarygrass Sandbar Willow Broadleaf cattail	<u>Scientific Name</u> <i>Reed Canarygrass</i> <i>Salix interior</i> <i>Typha latifolia</i>	<u>WL Indicator</u> FACW FACW OBL
Hydrogeomorphic Class	Concave		
Soil Type (soil survey)	Flagler sandy loam (284B), Dinsdale silt loam (377B), Ansgar silt loam (760), Waukegan silt loam (350B)		
Soil Type (field obs.)	Loamy, clayey, sandy		
Soil Characteristics	Redox dark surface		
Hydrology Characteristics	High water table, saturation, drainage patterns, geomorphic position and FAC-neutral test		
Hydrology Source	Drainage from adjoining off-site storage pond, surface water runoff		
Non-Wetland (Upland) Description			
Data Point(s)	DP-5		
Habitat Type	Emergent		
Was there a marked difference between the wetland and upland	Yes. Change in elevation and plant cover.		
Was there a gradual change in vegetation between the wetland and upland creating a "transition zone"	No		
Was there an abrupt topographic change between the wetland and upland	Minor abrupt topographic change due to wetland generally in concave area.		

Wetland 10 is located around Drainage 2. Drainage 2 starts adjoining north of the off-site adjoining storage pond. The wetland area apparently drains towards the east along Drainage 2, to an apparent off-site wetland. Vegetation was dominated by *Phalaris arundinacea*, *Salix interior*, and *Typha latifolia*. Aerial imagery shows Wetland 10 to have been utilized for agricultural row crops until at least 2011, with an apparent farmstead until that time as well. The wetland and

drainage area become apparent by at least 2014, with the construction of an adjoining south building and railway. Aerial images can be seen in Appendix B.

Based on review of the FEMA floodplain map as presented in Appendix A, Exhibit 5, Wetland 10 does not extend into a flood zone.

Based on available information at this time, we believe that Wetland 10 may be regulated by the USACE.

## **5.2 Waters of the United States (WOUS)**

Based on our field services and review of available resources discussed in previous sections of this report, we did not identify features that may be considered WOUS or potential waters of the United States (PWOUS).

## **5.3 Drainages**

### **5.3.1 Drainage 1**

Drainage 1 is approximately 275-linear feet and starts at the north boundary of Wetland 1, adjacent south of the west end of the railroad tracks. The drainage is apparently fed by an off-site wetland and drainage area that crosses south underneath the railroad tracks via a concrete culvert, discharging into Wetland 1 and Drainage 1. The drainage flows south-southwest off-site, ultimately discharging into Rock Creek. The drainage does not appear to have a defined bed and bank. The drainage area is presented on Exhibits 6A and 7 in Appendix A.

### **5.3.2 Drainage 2**

Drainage 2 is approximately 4,200 linear feet and sits in an approximate east to west orientation. Drainage 2 generally travels along the adjoining south off-site railroad tracks, draining to the apparent off-site wetland on the western portion of the site, as well as draining underneath the railroad to Wetland 1 and Drainage 1. The drainage does not appear to have a defined bed and bank. The drainage area is presented on Exhibits 6A and 7 in Appendix A.

### **5.3.3 Drainage 3**

Drainage 3 is approximately 1,005 linear feet and is situated adjacent northwest of the far southeast on-site building. The drainage feature travels in a slightly concave and apparent manipulated area between two employee parking areas, then traveling south towards 21<sup>st</sup> Street. The drainage crosses underneath of a driveway via a metal pipe, then turns south before it reaches 21<sup>st</sup> Street. The drainage does not appear to have a defined bed and bank. The drainage area is presented on Exhibits 6A and 7 in Appendix A.

### **5.3.4 Drainage 4**

Drainage 4 is approximately 380 linear feet. Drainage 4 starts approximately 380-feet north adjoining Wetland 5. The drainage feature travels in a slightly concave area. The drainage does not appear to have a defined bed and bank. The drainage area is presented on Exhibits 6A and 7 in Appendix A.

### **5.3.5 Drainage 5**

Drainage 5 is approximately 1,100 linear feet in a north to south orientation. Drainage 5 is in concave area and is sloped to drain to the south. This drainage feature drains south underneath 21<sup>st</sup> Avenue via a concrete culvert. High density polyethylene drain tile outlets were observed discharging from the adjoining west and upgradient farmed field. The drainage does not appear to have a defined bed and bank. The drainage area is presented on Exhibits 6A and 7 in Appendix A.

## **6.0 RECOMMENDATIONS**

According to survey results, ten wetland areas consisting of 6.77-acres and approximately 6,690 lineal feet of drainage were identified on the subject site.

We recommend that a copy of this report, be submitted to the USACE for an Approved Jurisdictional Determination (AJD). Only the USACE can make the final determination on the jurisdictional status of wetlands or WOUS, and on the need for permit processing and compensatory mitigation.

The USACE can be reached at the following address:

U.S. Army Corps of Engineers – Rock Island District  
Clock Tower Building  
P.O. Box 2004,  
Rock Island, IL 61204-2004  
Attention: Regulatory Branch

As part of the Section 404 Permit, if required, a Section 401 Water Quality Certification from the Iowa Department of Natural Resources may be required. In addition, if impacts are proposed to WOUS the IDNR may require a floodplain construction permit. We recommend coordinating the project with Mr. Kelly Stone in writing or telephone at 515-281-8993. We also recommend contacting Ms. Kelly Poole, of the IDNR Sovereign Lands Division in writing or telephone at 515-281-8967 to determine if a sovereign lands construction permit is required or if this project may adversely impact threatened or endangered species and their associated habitats.

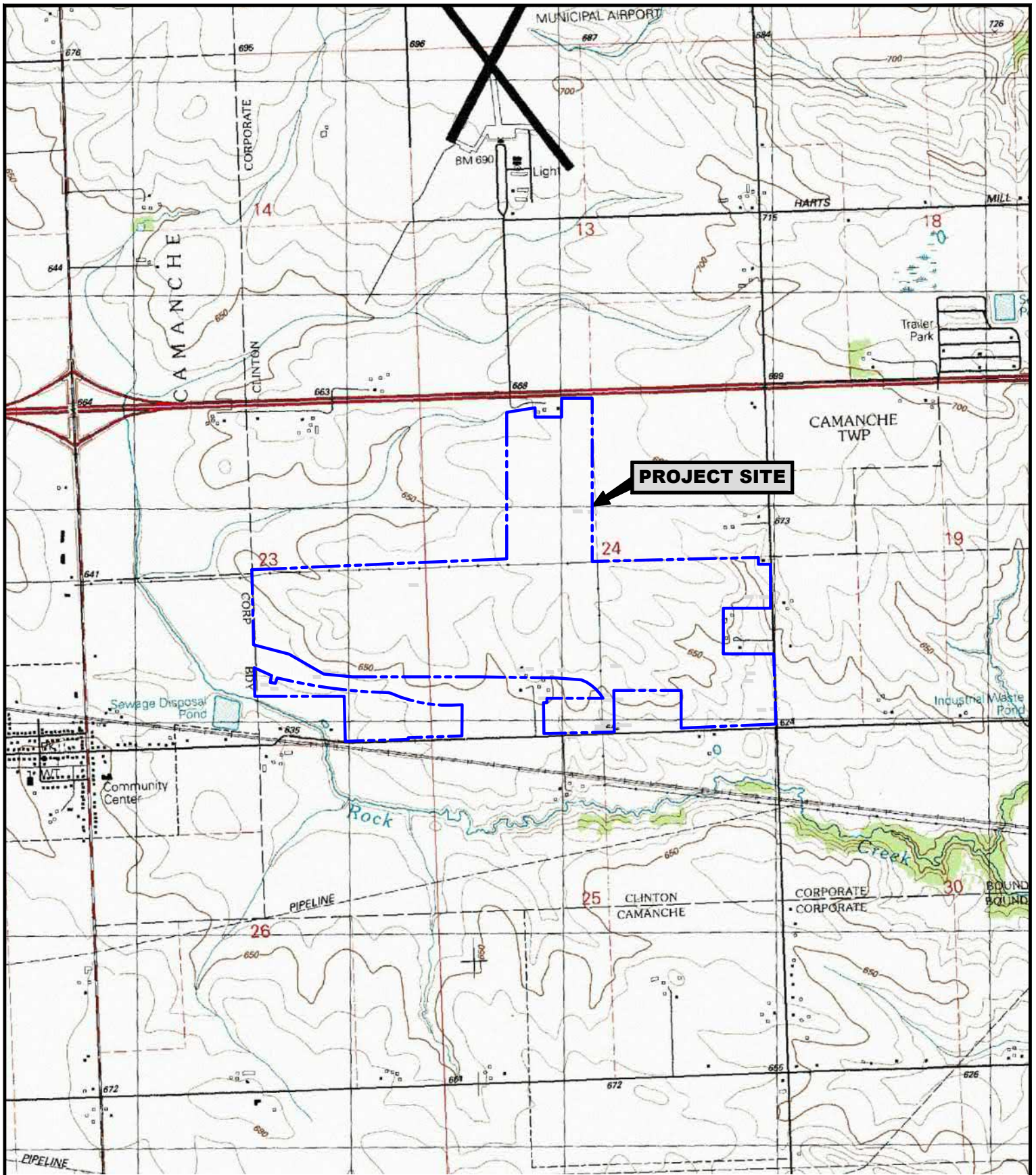
## **7.0 GENERAL COMMENTS**

The wetland delineation was performed using the USACE Manual and Midwest Supplement. The manual provides assistance for delineating wetlands based on the three criteria discussed. However, the manual alone may not have provided enough information to document whether or not the three criteria were met. Various physical properties or other visual signs used to evaluate whether the three wetland identification criteria areas were satisfied may not be straightforward, especially in disturbed or problem areas. The manual also allows the user to visually estimate certain indicators such as the percentage of area covered by dominant species for the entire community. Terracon did not attempt to identify every possible plant species and did not classify soil type by laboratory methods. Due to seasonal changes, Terracon cannot guarantee the area to exhibit or not to exhibit wetland characteristics at all times of the year. The limitations of this wetland delineation should be recognized.

This report has been prepared in accordance with generally accepted scientific and engineering evaluation practices. This report is for the exclusive use of the client for the project being discussed. No warranties, either express or implied, are intended or made.

# **APPENDIX A**

## **Exhibits**



**PROJECT SITE**

**LEGEND**

----- - BOUNDARY OF ASSESSED AREA

TOPOGRAPHIC IMAGE FROM IOWA GEOGRAPHIC MAP SERVER MAINTAINED BY IOWA STATE UNIVERSITY AND MIT - <http://cairo.gis.iastate.edu/map.html>

NORTH

0 2000

APPROXIMATE DRAWING SCALE

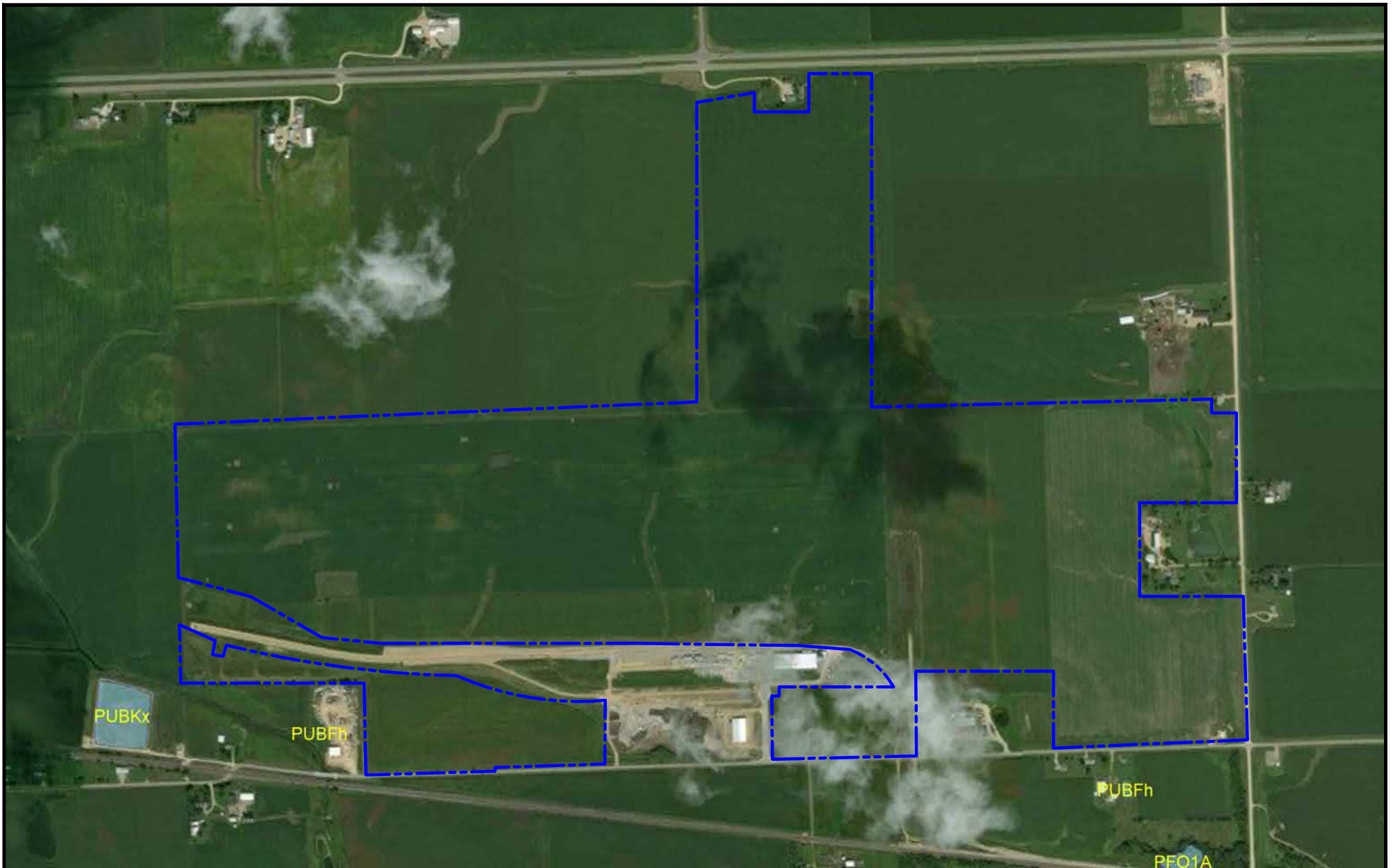
Project No.	Date:
06227010	05/12/22
Project Mngr:	Drawn By:
JMS	KEK
File Name:	
06227010-01.dwg	
Layout Name:	
E1	



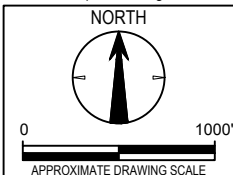
2640 12TH STREET SW CEDAR RAPIDS, IOWA 52404  
PH. (319) 366-8321 FAX. (319) 366-0032

TOPOGRAPHIC SITE MAP  
LINCOLNWAY INDUSTRIAL RAIL AND AIR PARK  
CLINTON REGIONAL DEVELOPMENT CORPORATION  
4350 S 59 ST  
CLINTON, IOWA 52732

EXHIBIT  
**1**



GIS INFO FROM NATURAL RESOURCES GEOGRAPHIC INFORMATION SYSTEMS  
 LIBRARY <http://www.arcgisonline.com>



Project No.	Date:
06227010	05/12/22
Project Mngr:	Drawn By:
JMS	KEK
File Name:	
06227010-01.dwg	
Layout Name:	
E2	

2640 12TH STREET SW CEDAR RAPIDS, IOWA 52404  
 PH. (319) 366-8321 FAX. (319) 366-0032

**LEGEND**

----- - BOUNDARY OF ASSESSED AREA

ArcGIS WETLAND MAP  
 LINCOLNWAY INDUSTRIAL RAIL AND AIR PARK  
 CLINTON REGIONAL DEVELOPMENT CORPORATION  
 4350 S 59 ST  
 CLINTON, IOWA 52732

2A



Project Manager:	JMS
Drawn by:	JMS
Checked by:	SW
Approved by:	SW
Project No.	06227010
Scale:	NA.
File Name:	Exhibit
Date:	MAY '22

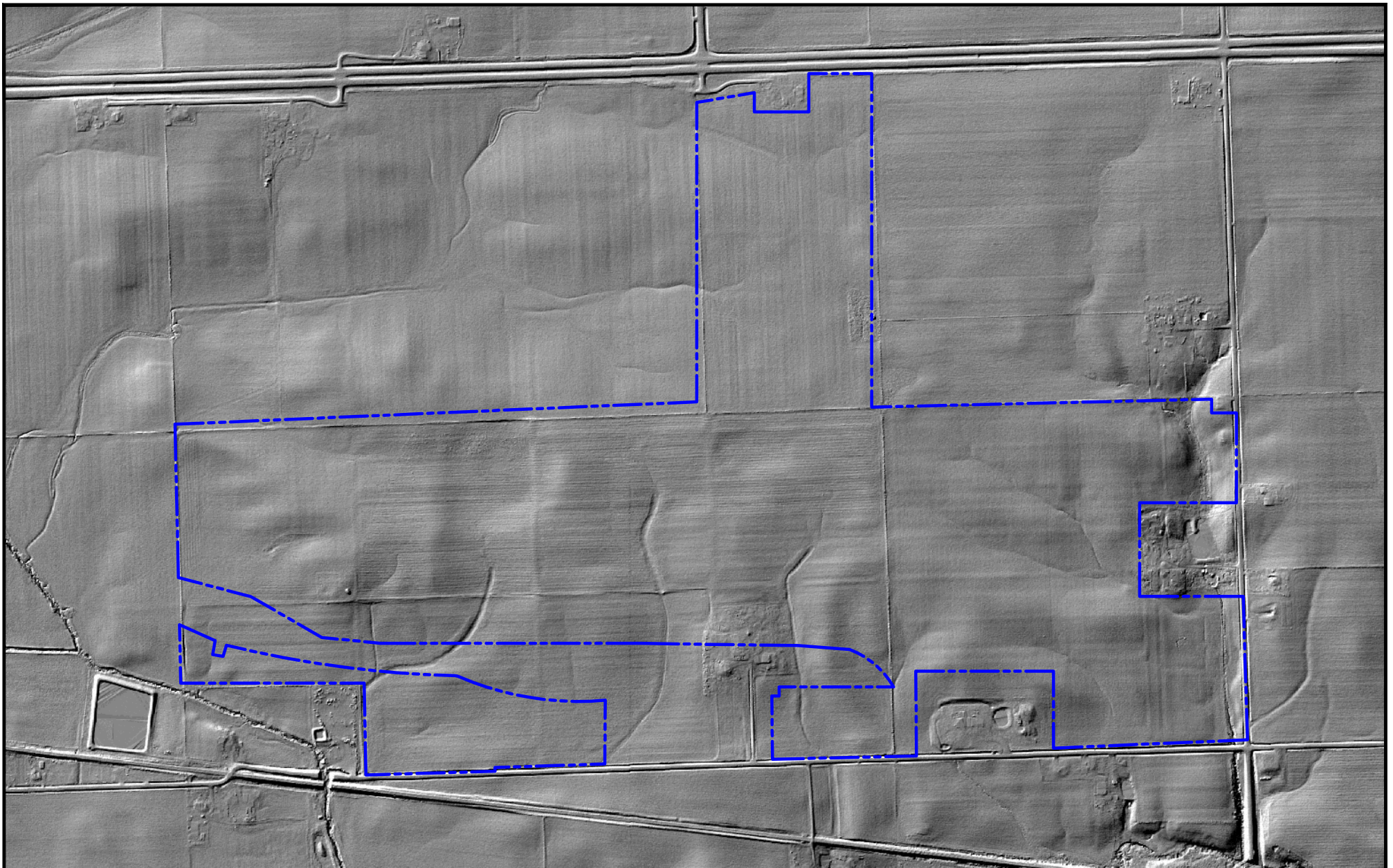
  
 Consulting Engineers & Scientists

2640 12<sup>th</sup> Street SW      Cedar Rapids, Iowa 52404  
 PH. (319) 366-8321      FAX. (319) 366-0032

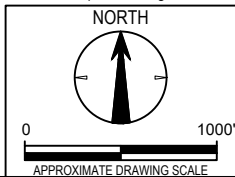
NATIONAL WETLAND INVENTORY MAP  
 LINCOLNWAY INDUSTRIAL RAIL AND AIR PARK  
 CLINTON REGIONAL DEVELOPMENT CORPORATION  
 4350 59<sup>TH</sup> ST  
 CLINTON, IOWA 52732

Exhibit  
**2B**





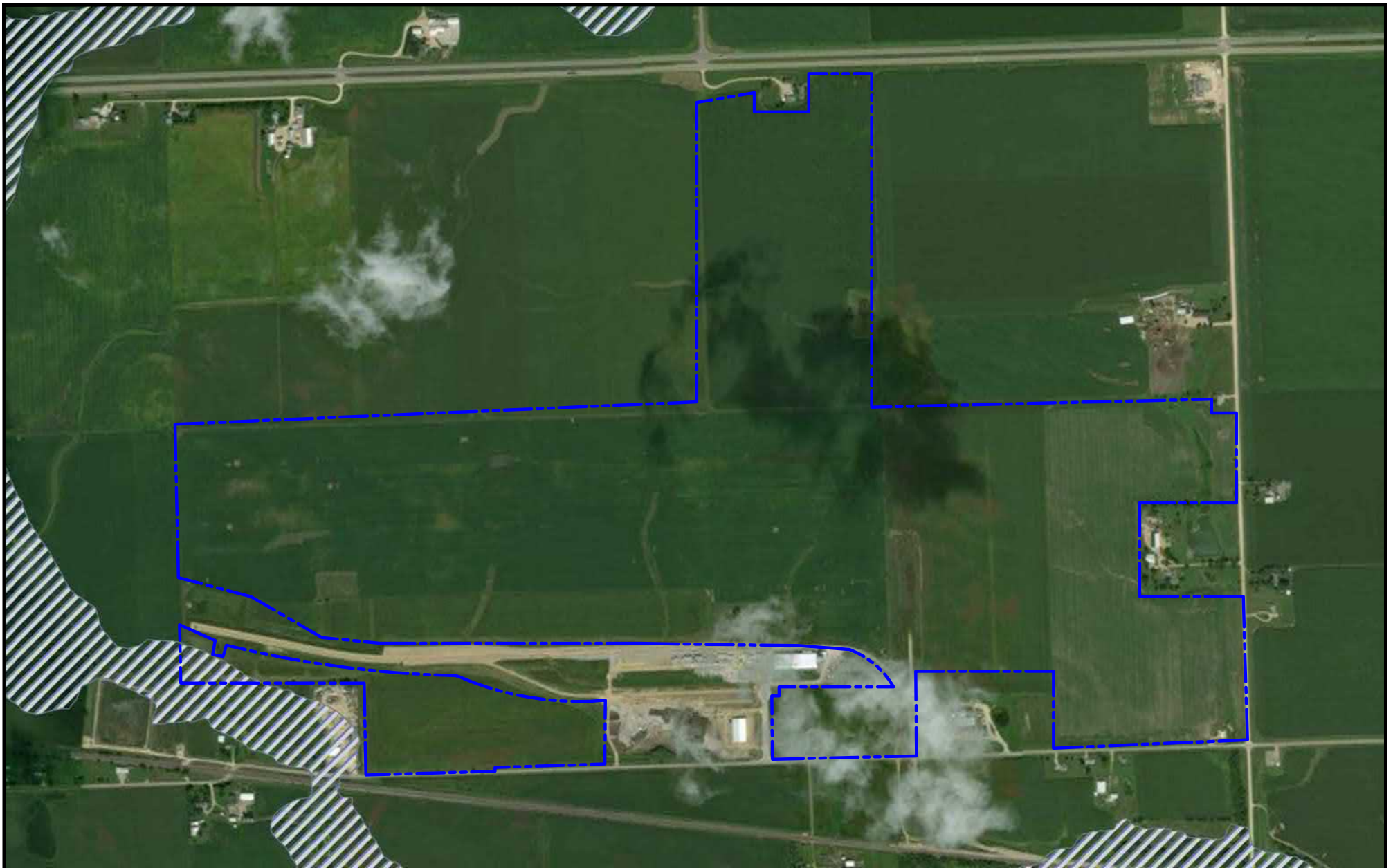
GIS INFO FROM NATURAL RESOURCES GEOGRAPHIC INFORMATION SYSTEMS  
 LIBRARY <http://www.arcgisonline.com>



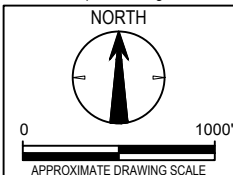
Project No.	Date:
06227010	05/12/22
Project Mng:	Drawn By:
JMS	KEK
File Name:	
06227010-01.dwg	
Layout Name:	
E4	

2640 12TH STREET SW CEDAR RAPIDS, IOWA 52404  
 PH. (319) 366-8321 FAX. (319) 366-0032

<b>LEGEND</b>		EXHIBIT  <b>4</b>
- - - - - BOUNDARY OF ASSESSED AREA		
HILLSHADE FROM LIDAR		
LINCOLNWAY INDUSTRIAL RAIL AND AIR PARK CLINTON REGIONAL DEVELOPMENT CORPORATION		
4350 S 59 ST CLINTON, IOWA 52732		



GIS INFO FROM NATURAL RESOURCES GEOGRAPHIC INFORMATION SYSTEMS  
 LIBRARY <http://www.arcgisonline.com>



Project No.	Date:
06227010	05/12/22
Project Mngr:	Drawn By:
JMS	KEK
File Name:	
06227010-01.dwg	
Layout Name:	
E5	

2640 12TH STREET SW CEDAR RAPIDS, IOWA 52404  
 PH. (319) 366-8321 FAX. (319) 366-0032

**LEGEND**

----- - BOUNDARY OF ASSESSED AREA

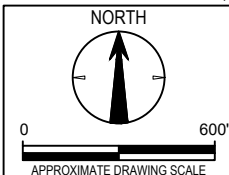
FEMA FLOODPLAIN MAP
LINCOLNWAY INDUSTRIAL RAIL AND AIR PARK CLINTON REGIONAL DEVELOPMENT CORPORATION 4350 S 59 ST CLINTON, IOWA 52732

EXHIBIT
5



AERIAL PHOTO FROM IOWA GEOGRAPHIC MAP SERVER MAINTAINED BY IOWA STATE UNIVERSITY AND MIT - <http://cairo.gis.iastate.edu/map.html>

- LEGEND**
- BOUNDARY OF ASSESSED AREA
  - DRAINAGE FEATURE
  - WETLAND AREA
  - - DATA POINT LOCATION

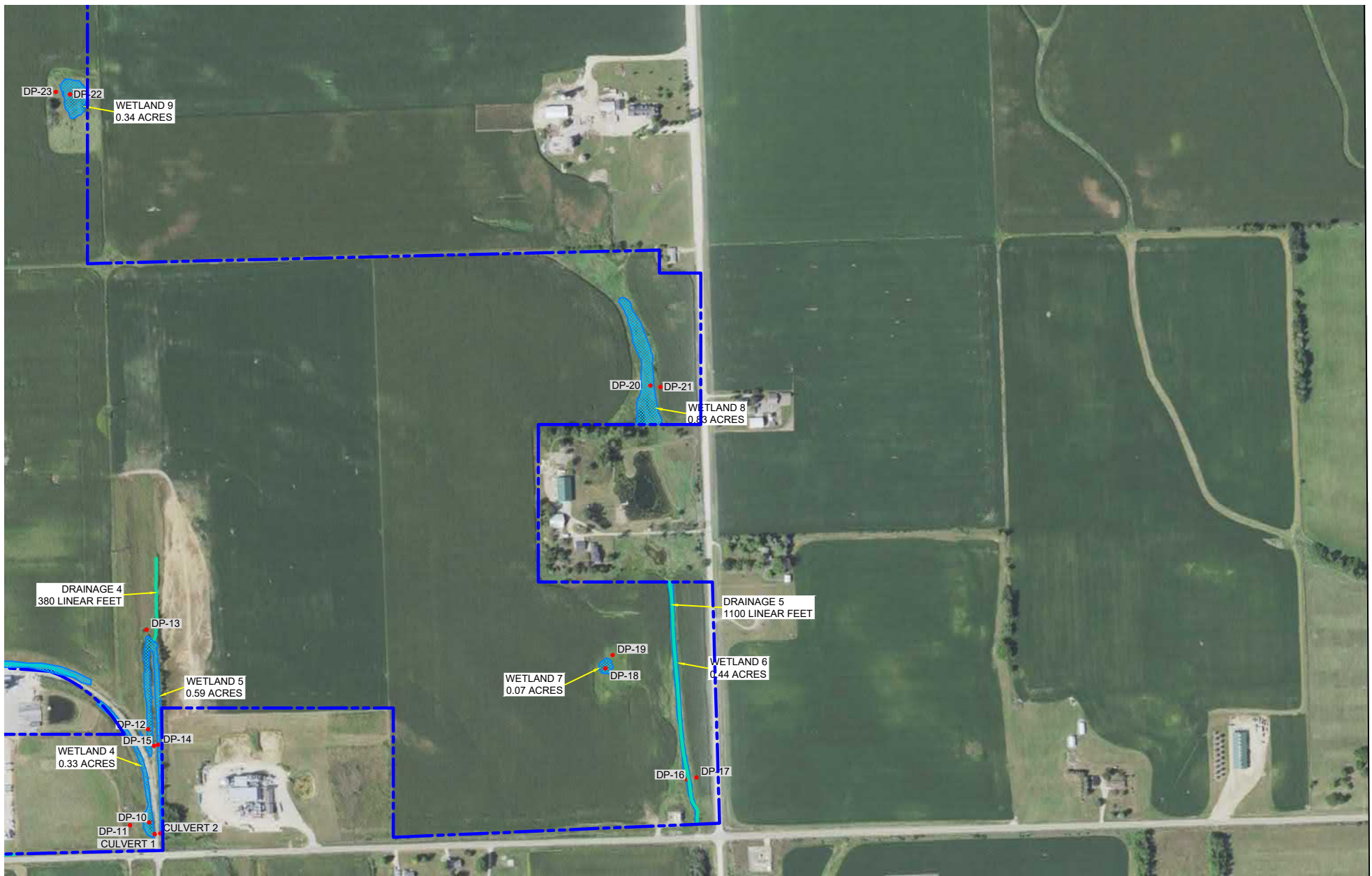


Project No:	Date:
06227010	05/12/22
Project Mngr:	Drawn By:
JMS	KEK
File Name:	
06227010-01.dwg	
Layout Name:	
EGA	

2640 12TH STREET SW CEDAR RAPIDS, IOWA 52404  
PH. (319) 366-8321 FAX. (319) 366-0032

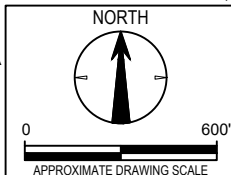
**WETLAND DELINEATION MAP (NORTH)**  
LINCOLNWAY INDUSTRIAL RAIL AND AIR PARK  
CLINTON REGIONAL DEVELOPMENT CORPORATION  
4350 S 59 ST  
CLINTON, IOWA 52732

EXHIBIT  
**6A**



AERIAL PHOTO FROM IOWA GEOGRAPHIC MAP SERVER MAINTAINED BY IOWA STATE UNIVERSITY AND MIT - <http://cairo.gis.iastate.edu/map.html>

- LEGEND**
- - - BOUNDARY OF ASSESSED AREA
  - - - DRAINAGE FEATURE
  - ▨ WETLAND AREA
  - DATA POINT LOCATION

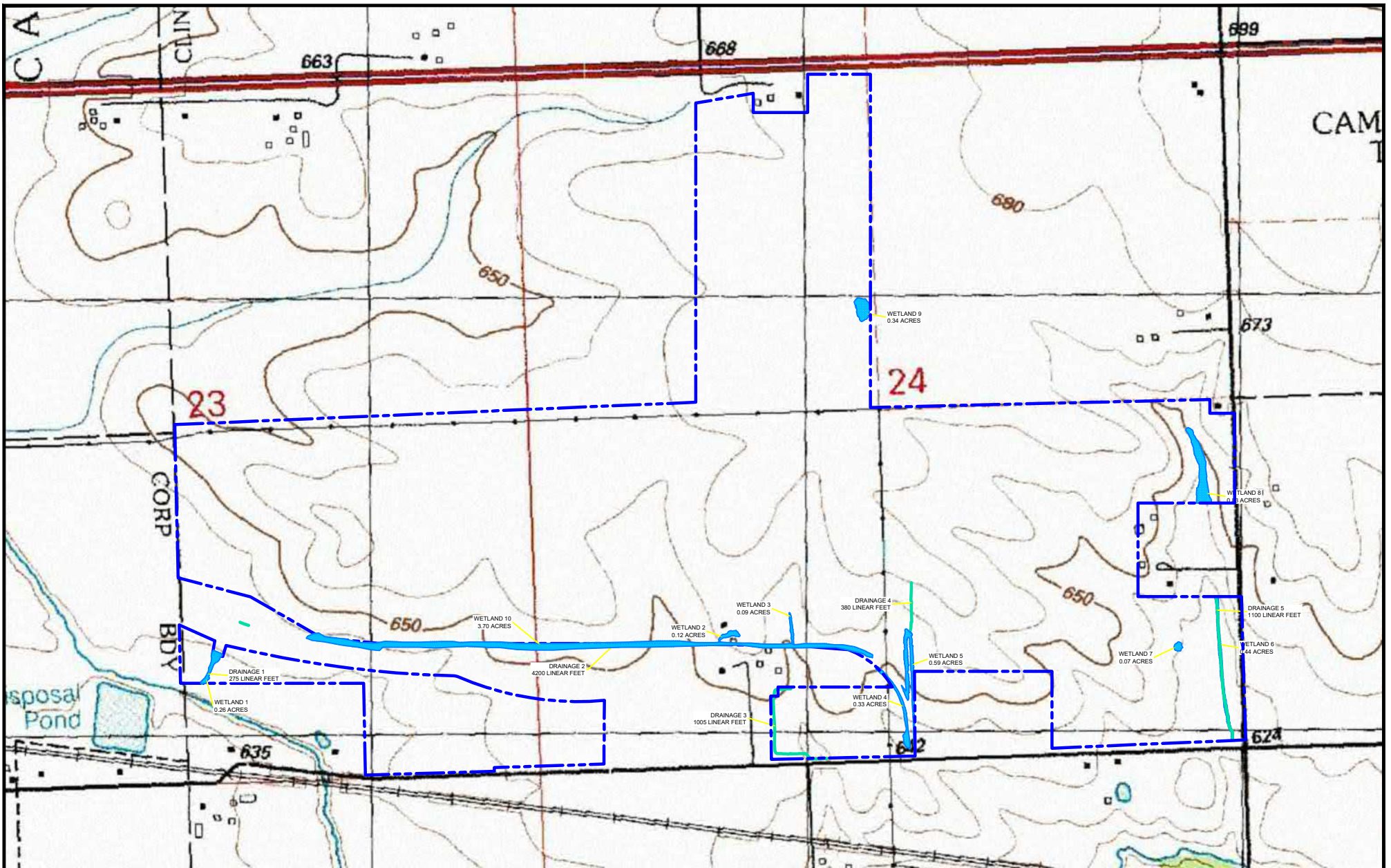


Project No:	Date:
06227010	05/12/22
Project Mng'r:	Drawn By:
JMS	KEK
File Name:	
06227010-01.dwg	
Layout Name:	
E6	

2640 12TH STREET SW CEDAR RAPIDS, IOWA 52404  
PH. (319) 366-8321 FAX. (319) 366-0032

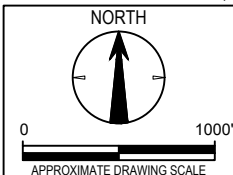
**WETLAND DELINEATION MAP (SOUTH)**  
LINCOLNWAY INDUSTRIAL RAIL AND AIR PARK  
CLINTON REGIONAL DEVELOPMENT CORPORATION  
4350 S 59 ST  
CLINTON, IOWA 52732

EXHIBIT  
**6B**



AERIAL PHOTO FROM IOWA GEOGRAPHIC MAP SERVER MAINTAINED BY IOWA STATE UNIVERSITY AND MIT - <http://cairo.gis.iastate.edu/map.html>

- LEGEND**
- BOUNDARY OF ASSESSED AREA
  - DRAINAGE FEATURE
  - WETLAND AREA



Project No:	Date:
06227010	05/12/22
Project Mgr:	Drawn By:
JMS	KEK
File Name:	
06227010-01.dwg	
Layout Name:	
E7	

2640 12TH STREET SW CEDAR RAPIDS, IOWA 52404  
PH. (319) 366-8321 FAX. (319) 366-0032

TOPOGRAPHIC SITE MAP WITH WETLAND/MOUS LOCATIONS

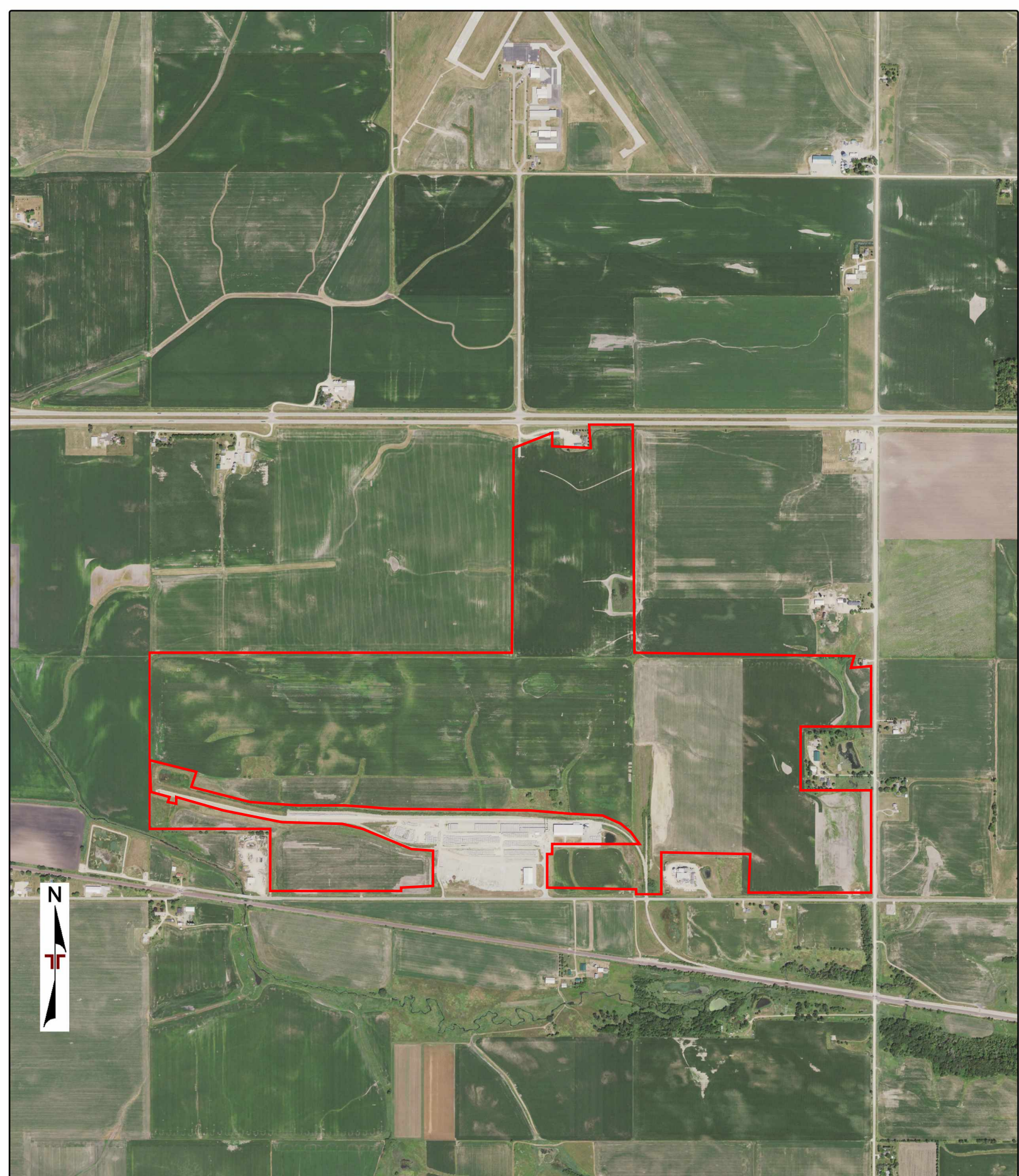
LINCOLNWAY INDUSTRIAL RAIL AND AIR PARK  
CLINTON REGIONAL DEVELOPMENT CORPORATION


4350 S 59 ST  
CLINTON, IOWA 52732

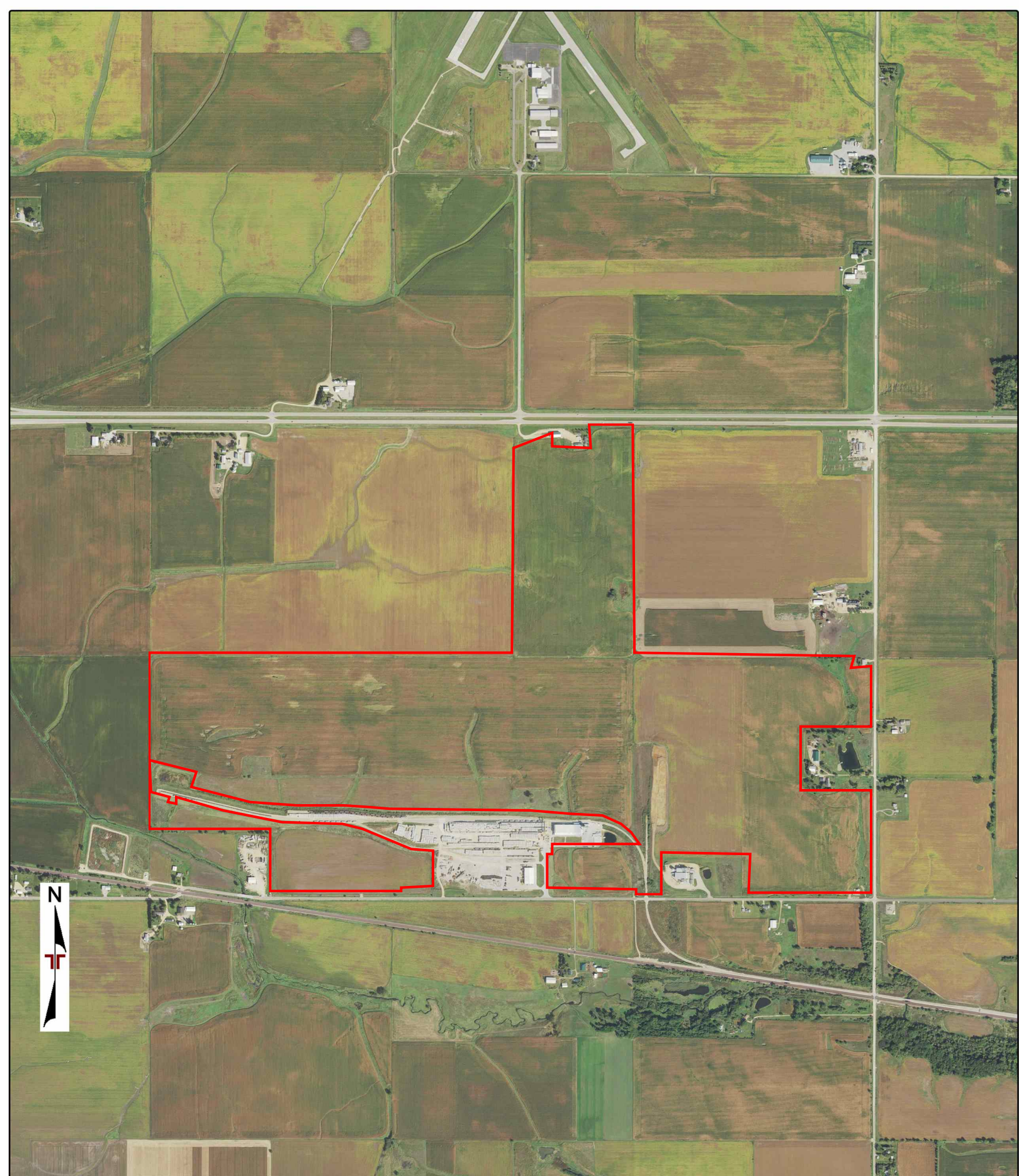
EXHIBIT


7

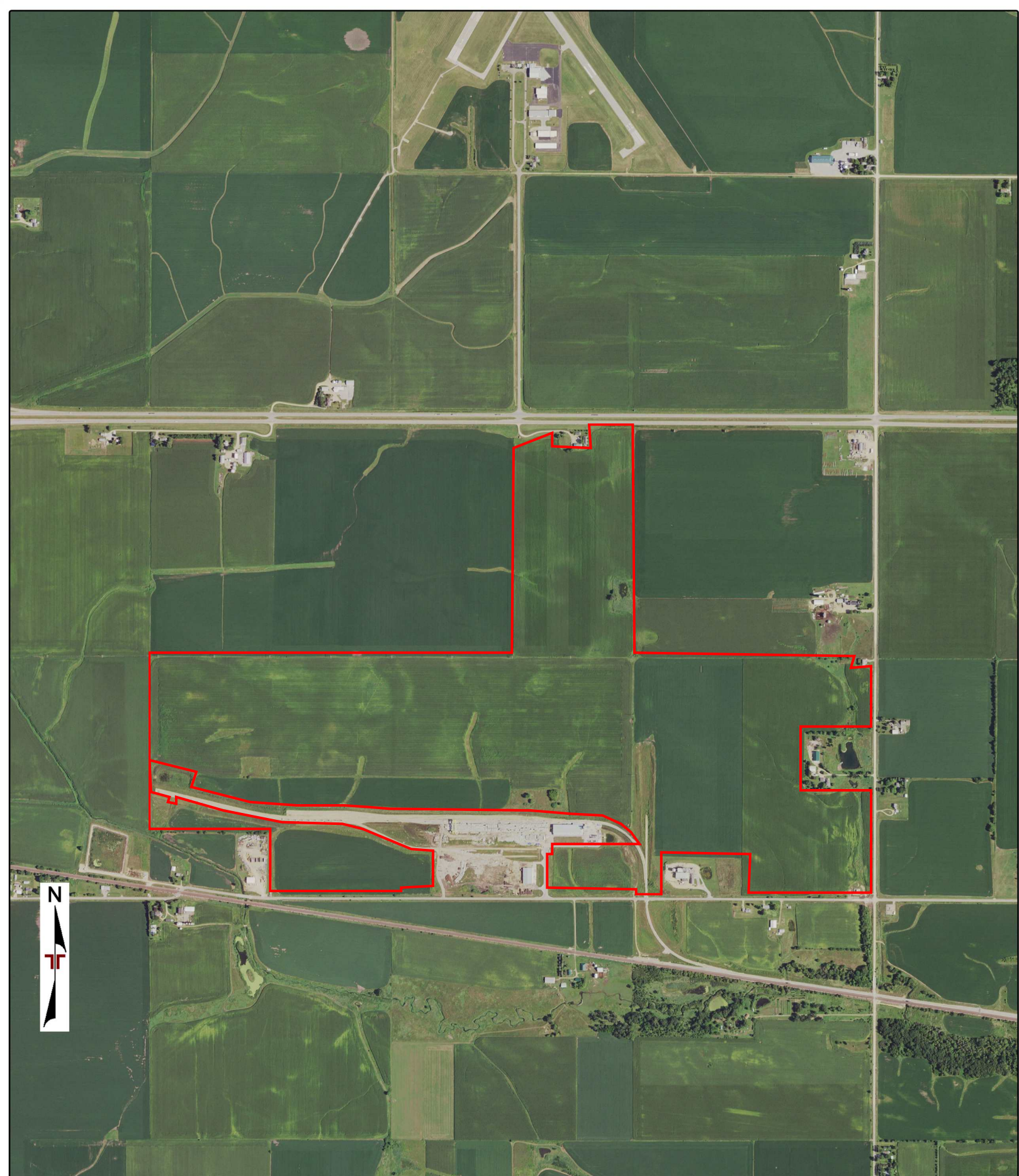
**APPENDIX B**  
**Aerial Photographs**



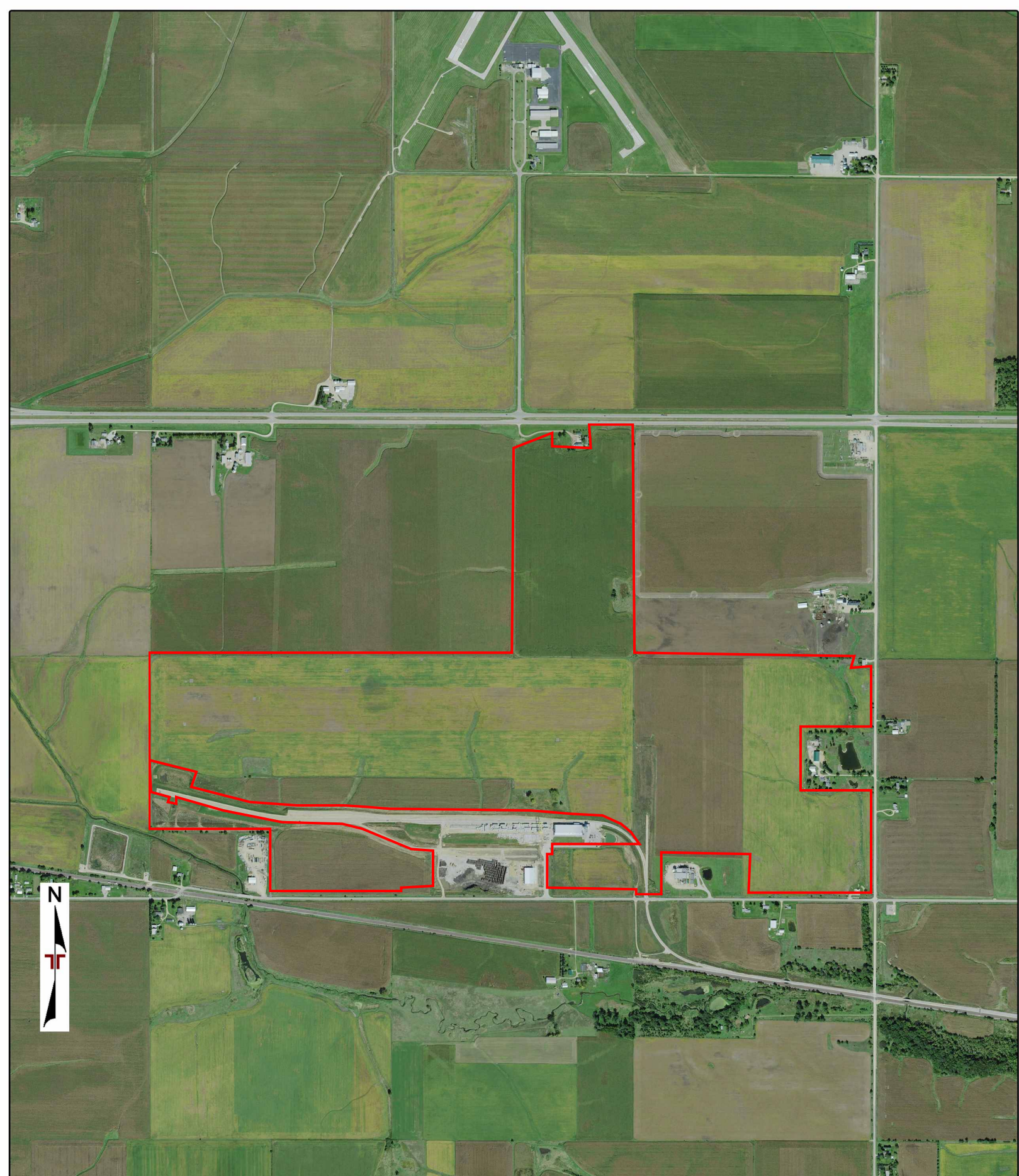
Project Manager:	Project No.		AERIAL PHOTO (2019 - USDA)	<b>B</b>
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			



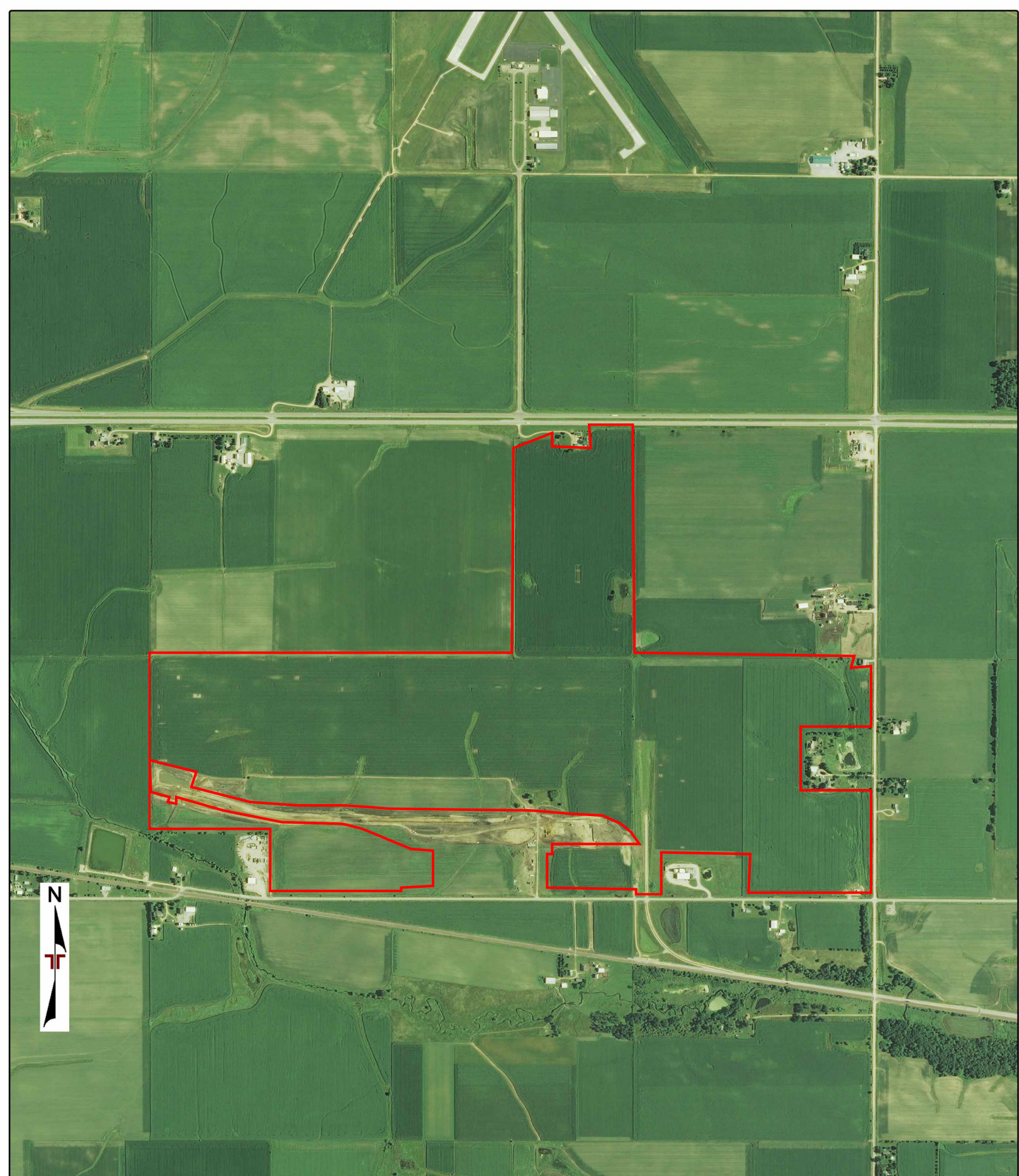
Project Manager:	Project No.		AERIAL PHOTO (2017 - USDA)	<b>B</b>
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			



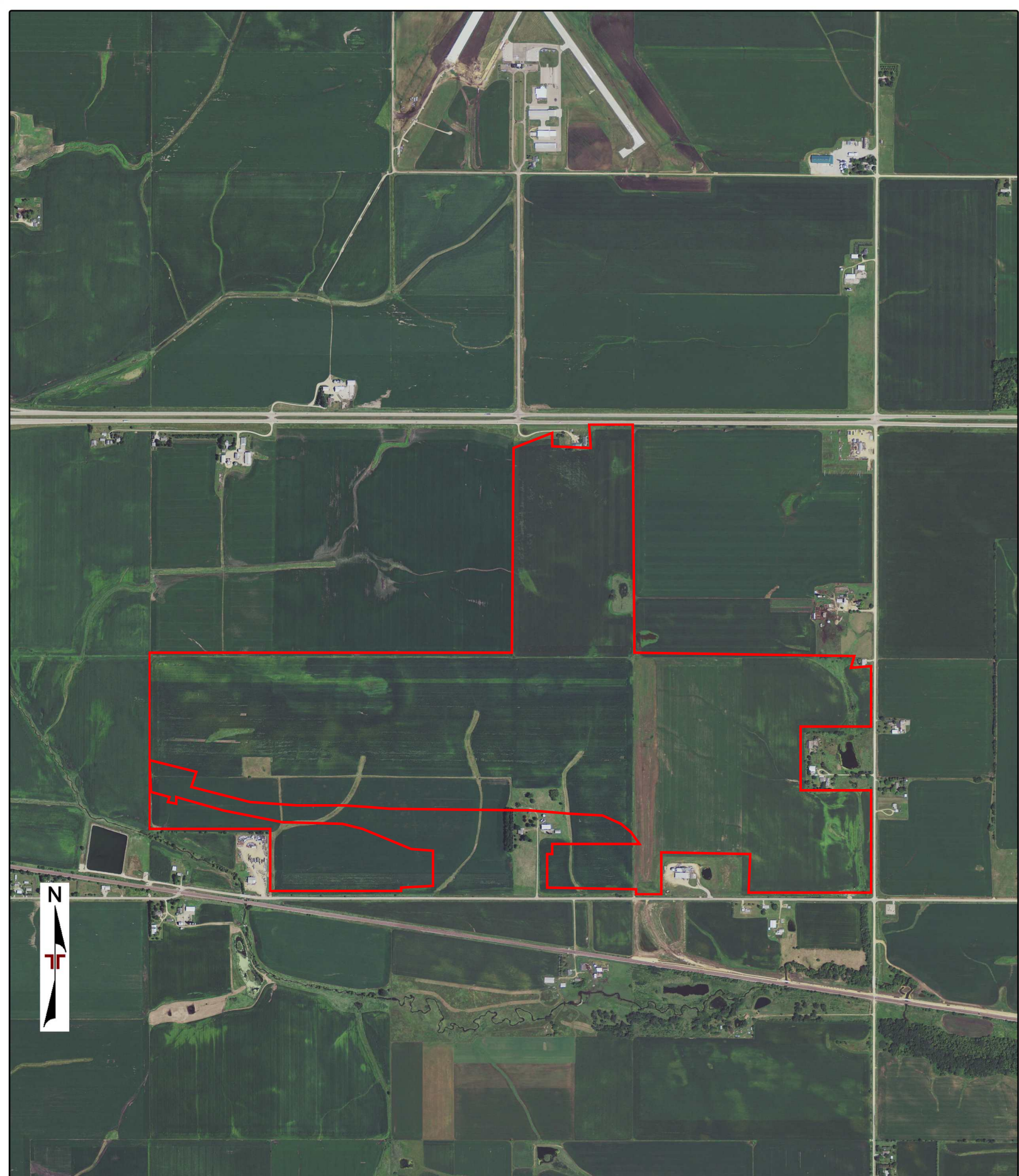
Project Manager:	Project No.		AERIAL PHOTO (2015 - USDA)	
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			




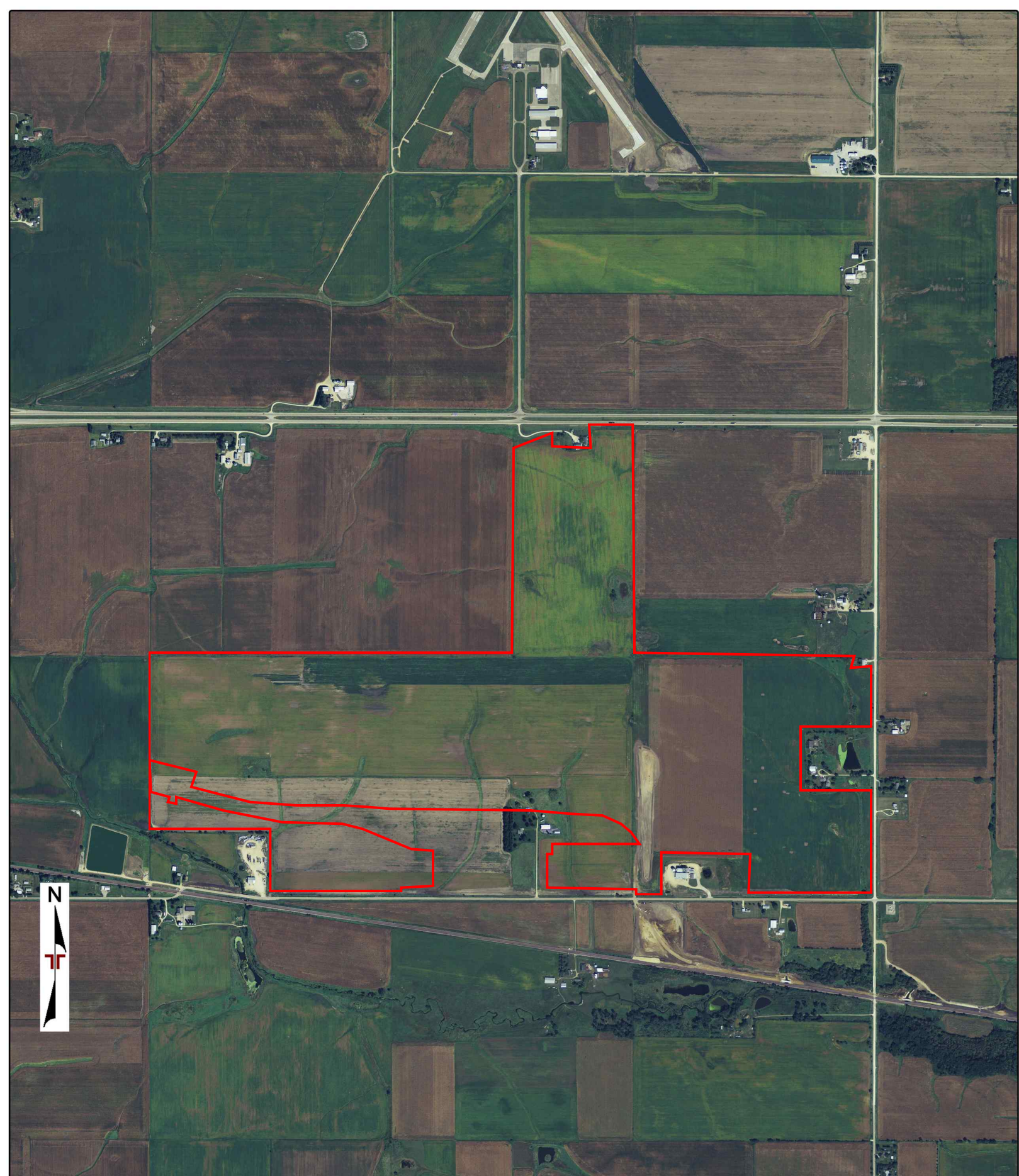
Project Manager:	Project No.		AERIAL PHOTO (2014 - USDA)	<b>B</b>
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			





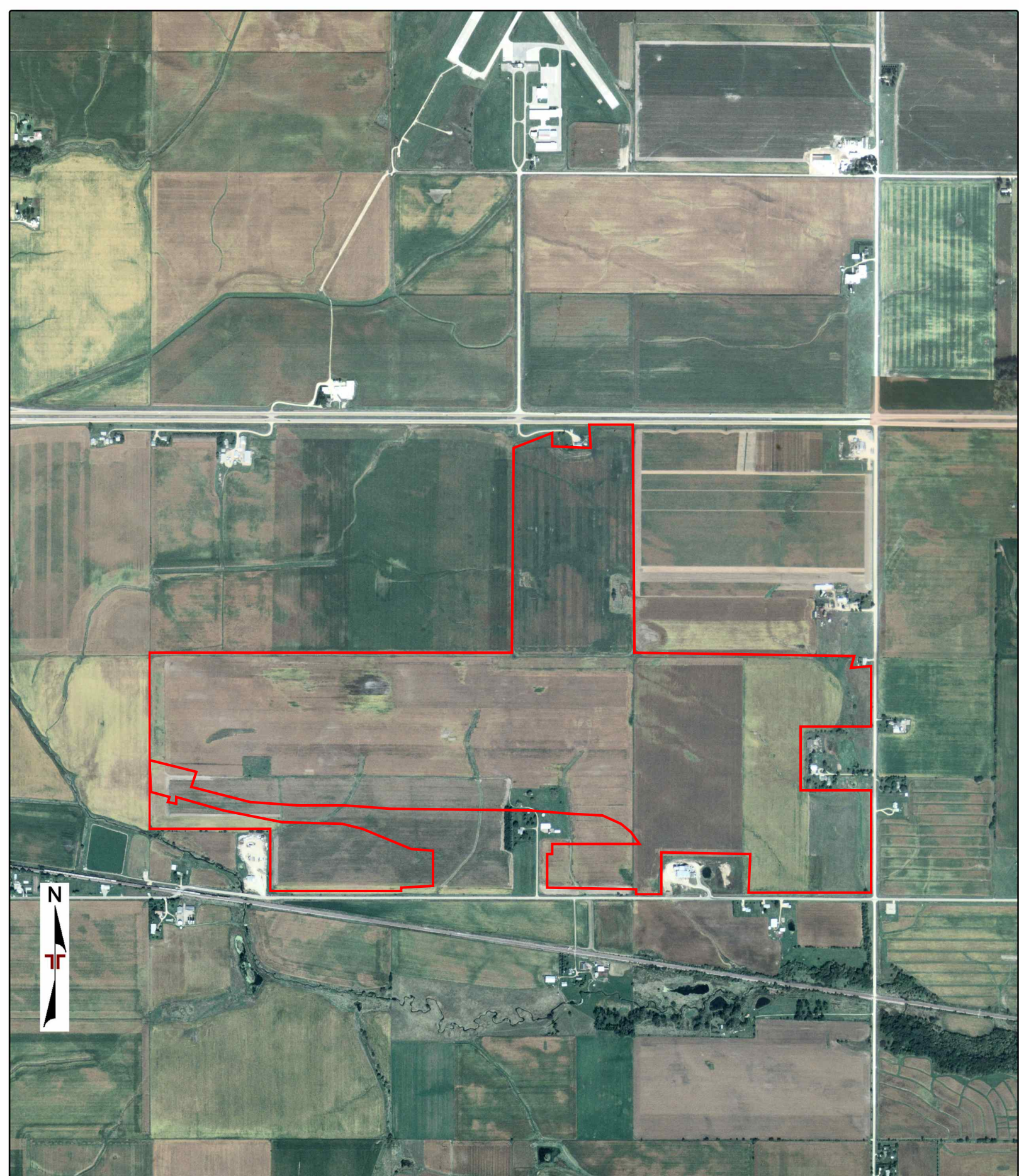
Project Manager:	Project No.		AERIAL PHOTO (2013 - USDA)	<b>B</b>
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			




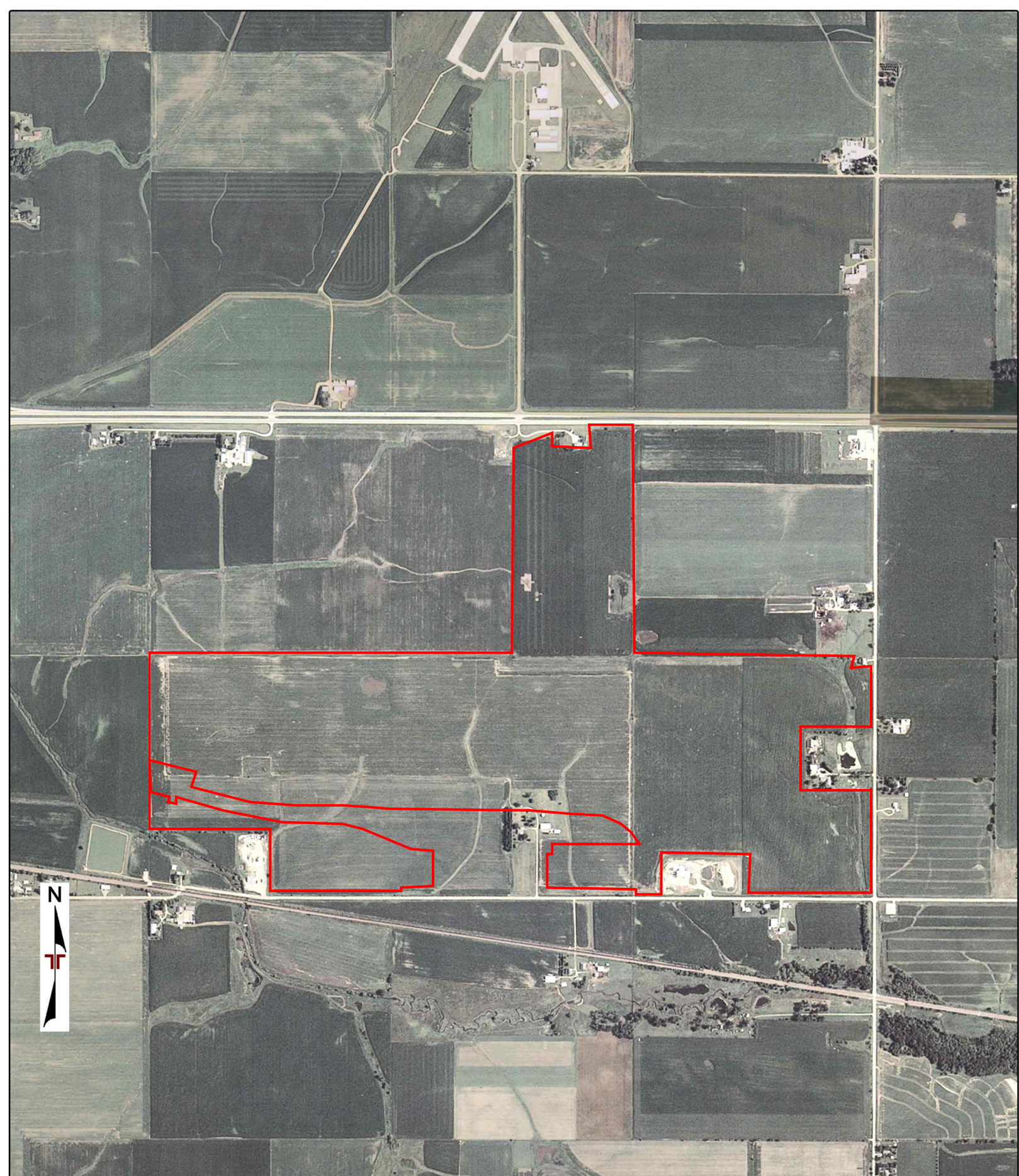
Project Manager:	Project No.		AERIAL PHOTO (2011 - USDA)	<b>B</b>
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			



Project Manager:	Project No.		AERIAL PHOTO (2010 - USDA)	
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			



Project Manager:	Project No.		AERIAL PHOTO (2008 - USDA)	<b>B</b>
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			

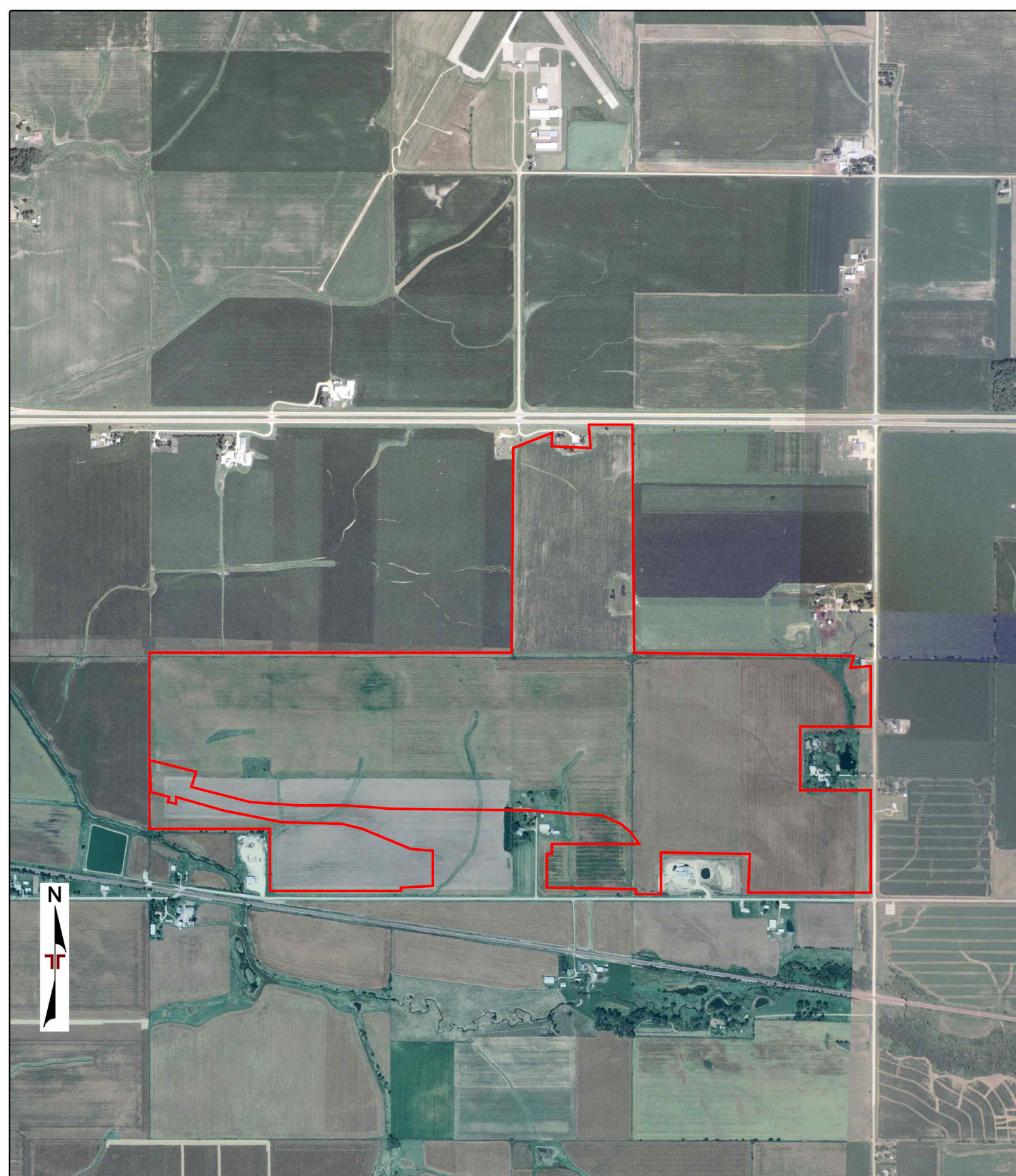


Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date:



AERIAL PHOTO (2007 - USDA)

**B**



Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date:

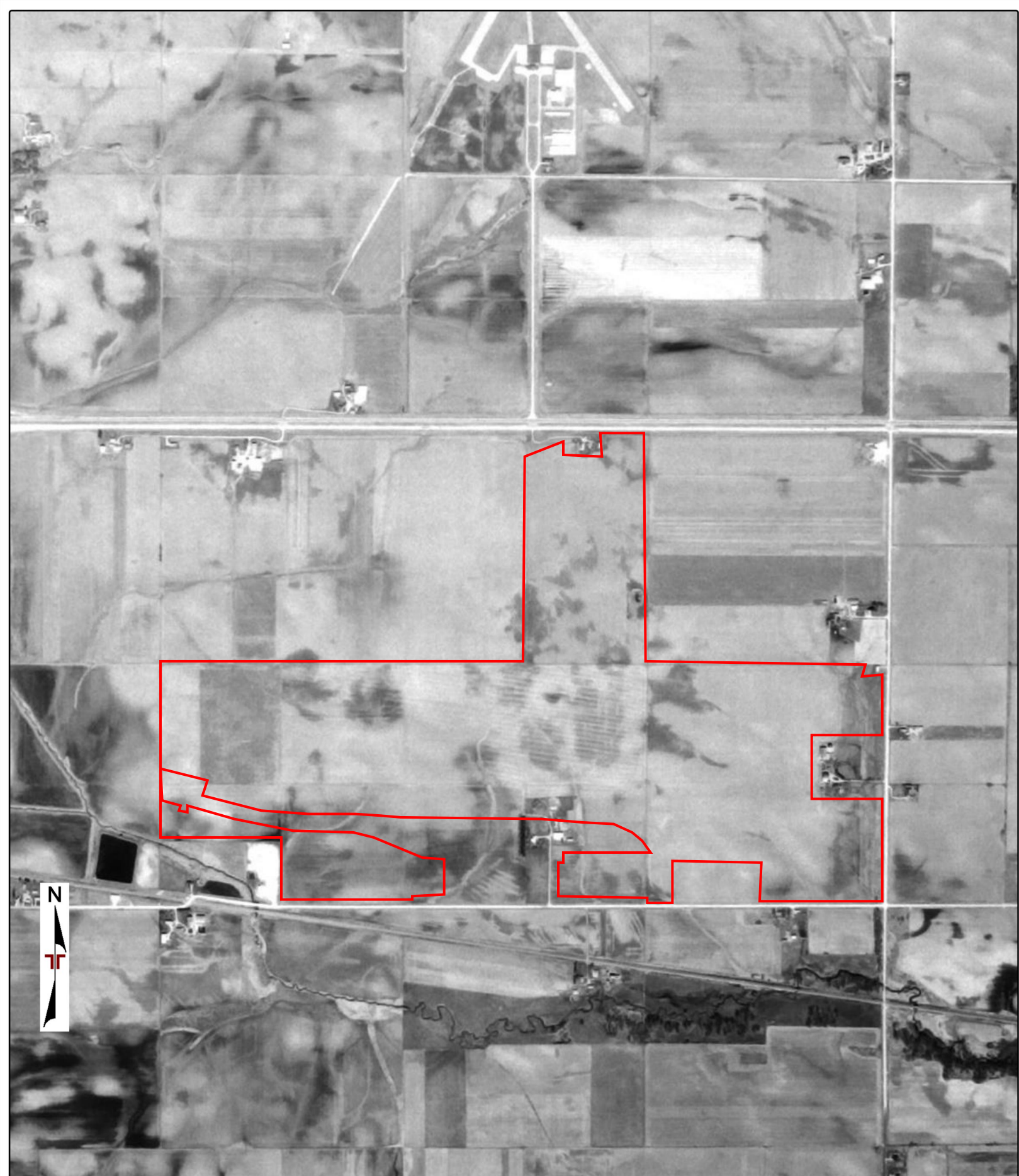


AERIAL PHOTO (2006 - USDA)

**B**



Project Manager:	Project No.		AERIAL PHOTO (2000 - USGS)	<b>B</b>
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			



Project Manager:	Project No.	<b>Terracon</b>	AERIAL PHOTO (1990 - USGS)	<b>B</b>
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			



Project Manager:	Project No.		AERIAL PHOTO (1983 - USGS)	<b>B</b>
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			




Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date:

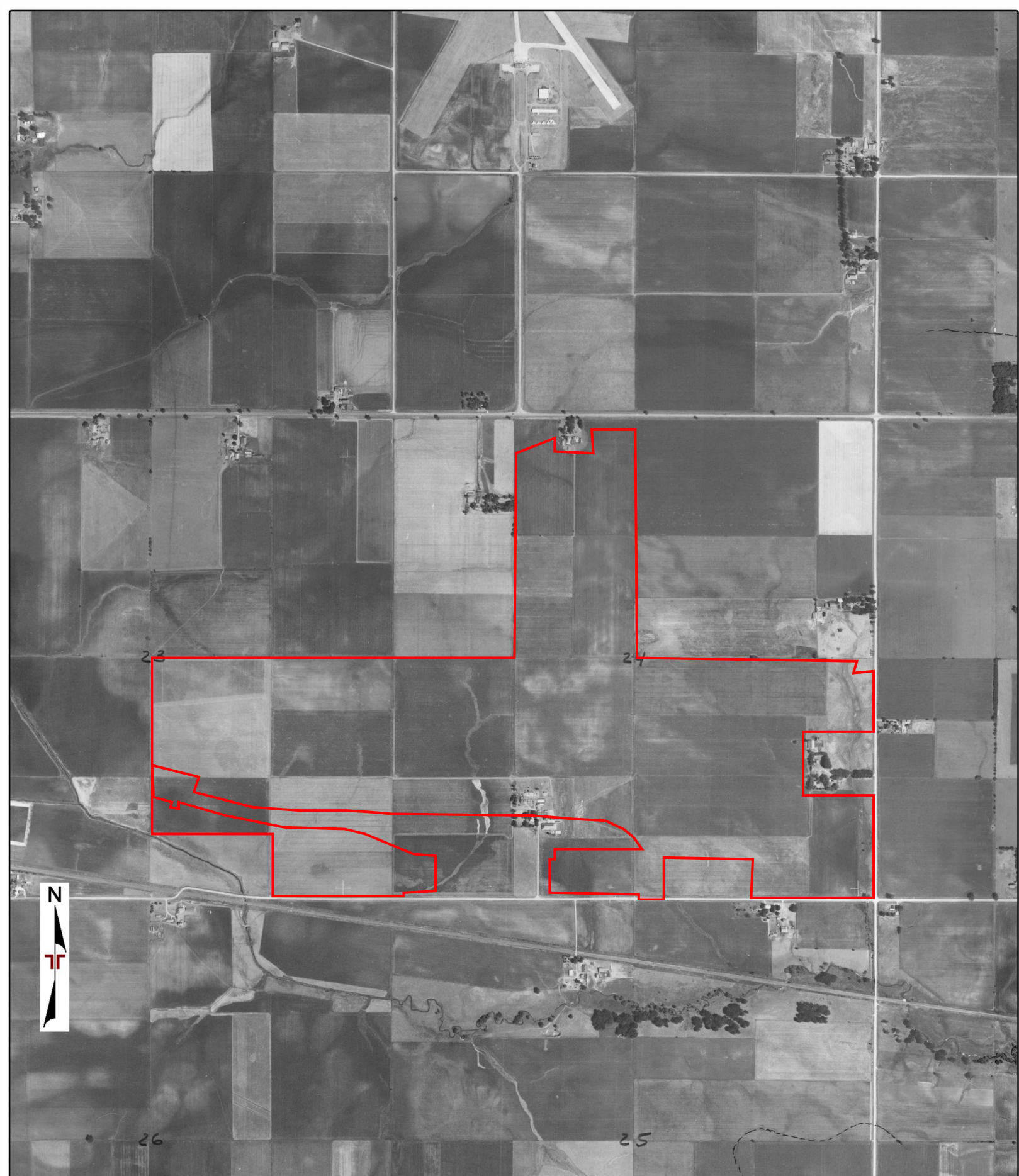


AERIAL PHOTO (1980 - EROS)

**B**



Project Manager:	Project No.		AERIAL PHOTO (1976 - USGS)	<b>B</b>
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			



Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date:

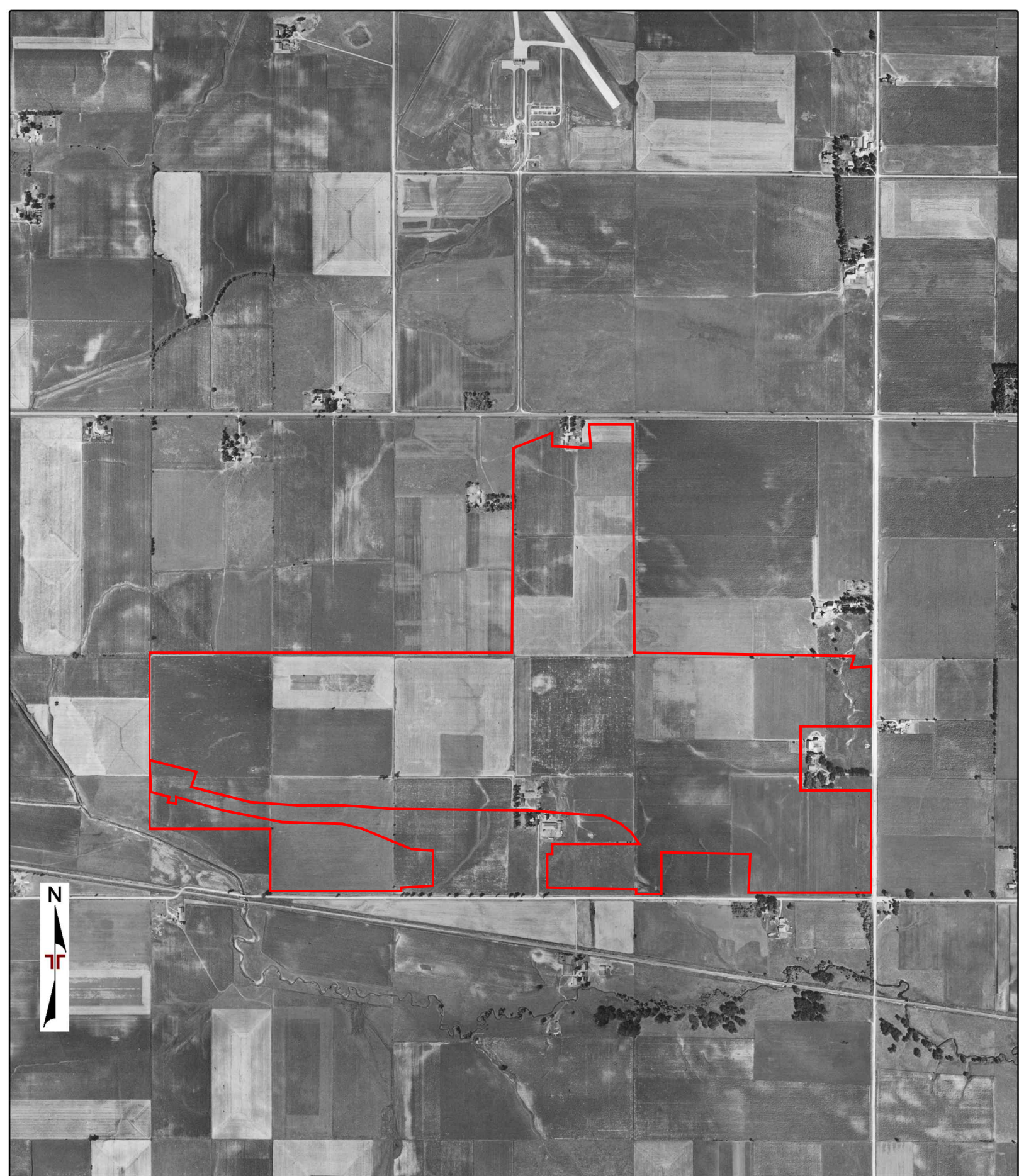


AERIAL PHOTO (1969 - ASCS)

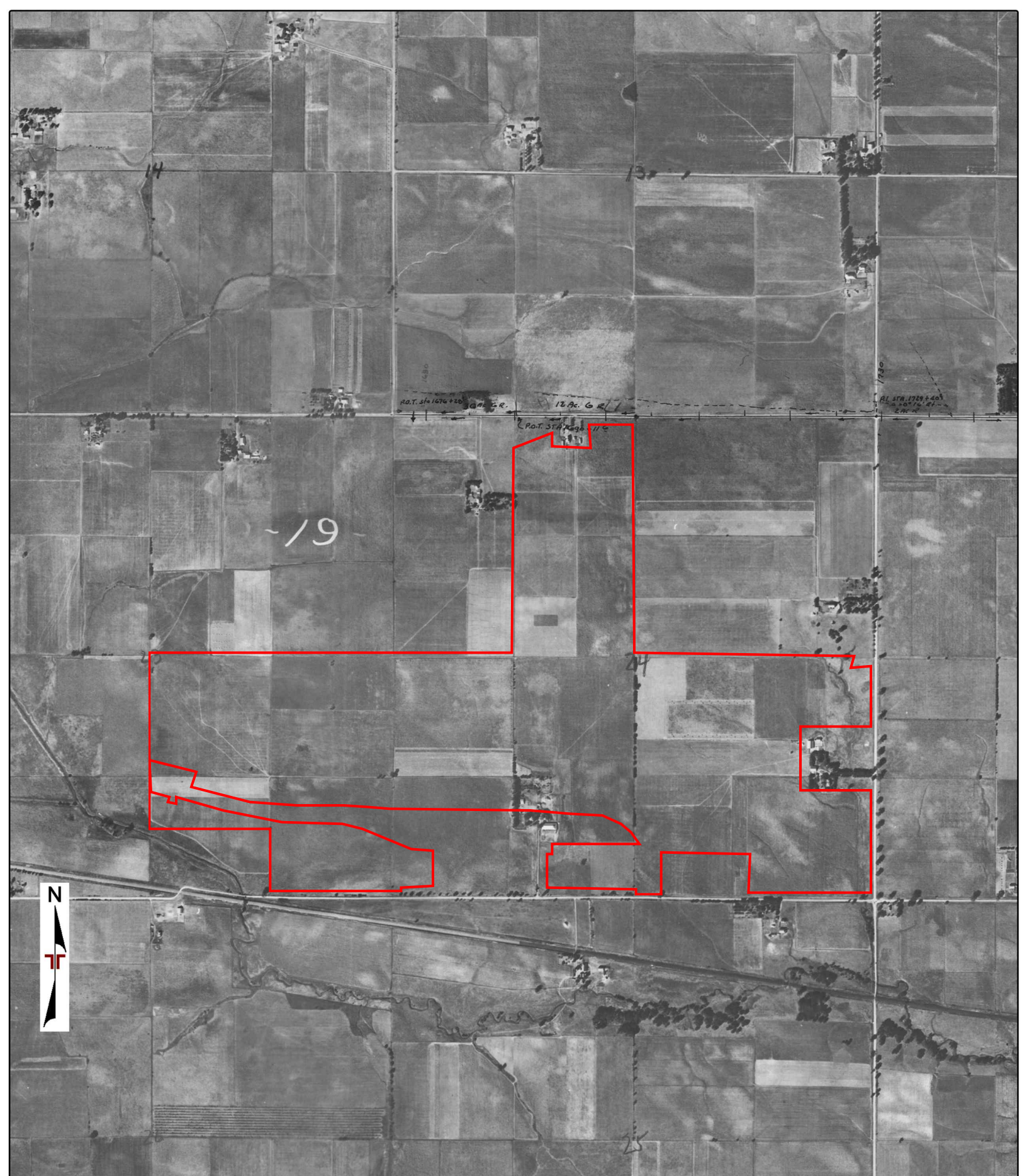
**B**



Project Manager:	Project No.	<b>Terracon</b>	AERIAL PHOTO (1956 - AMS)	<b>B</b>
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			



Project Manager:	Project No.	<b>Terracon</b>	AERIAL PHOTO (1951 - ASCS)	<b>B</b>
Drawn by:	Scale:			
Checked by:	File Name:			
Approved by:	Date:			



Project Manager:	Project No.
Drawn by:	Scale:
Checked by:	File Name:
Approved by:	Date:



AERIAL PHOTO (1937 - ASCS)

B

# **APPENDIX C**

## **USDA/NRCS Documentation**

U.S.D.A.  
Soil Conservation Service

SCS-CPA-028  
(1-88)

1. Name and Address (Person)

2. Date of Request

### HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION

~~JAMES PAASCH~~ *Mike Auliff*  
~~6545 LINGONWAY~~  
~~CLINTON IA 52732~~

3/28/89

3. County  
CLINTON

4. Name of USDA Agency or Person Requesting Determination

5. Farm No. and Tract No.

257 ~~T2546~~ T 2706

#### SECTION I - HIGHLY ERODIBLE LAND

6. Is soil survey now available for making a highly erodible land determination?	Yes	No	Field No.(s)	Total Acres
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
7. Are there highly erodible soil map units on this farm?	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
8. List highly erodible fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.			—	
9. List highly erodible fields that have been or will be converted for the production of agricultural commodities and, according to ASCS records, were not used for this purpose in any crop year during 1981-1985; and were not enrolled in a USDA set-aside or diversion program.			—	

10. This Highly Erodible Land determination was completed in the: Office  Field

NOTE: If you have highly erodible cropland fields, you may need to have a conservation plan developed for these fields. For further information, contact the local office of the Soil Conservation Service.

#### SECTION II - WETLAND

11. Are there hydric soils on this farm?	Yes	No	Field No.(s)	Total Wetland Acres
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
List field numbers and acres, where appropriate, for the following EXEMPTED WETLANDS:				
12. Wetlands (W), including abandoned wetlands, or Farmed Wetlands (FW). Wetlands may be farmed under natural conditions. Farmed Wetlands may be farmed and maintained in the same manner as they were prior to December 23, 1985, as long as they are not abandoned.				
13. Prior Converted Wetlands (PC) - The use, management, drainage, and alteration of prior converted wetlands (PC) are not subject to FSA unless the area reverts to wetland as a result of abandonment. You should inform SCS of any area to be used to produce an agricultural commodity that has not been cropped, managed, or maintained for 5 years or more.				
14. Artificial Wetlands (AW) - Artificial Wetlands includes irrigation induced wetlands. These Wetlands are not subject to FSA.				
15. Minimal Effect Wetlands (MW) - These wetlands are to be farmed according to the minimal effect agreement signed at the time the minimal effect determination was made.				

#### NON-EXEMPTED WETLANDS:

16. Converted Wetlands (CW) - In any year that an agricultural commodity is planted on these Converted Wetlands, you will be ineligible for USDA benefits. If you believe that the conversion was commenced before December 23, 1985, or that the conversion was caused by a third party, contact the ASCS office to request a commenced or third party determination.				
--	--	--	--	--

17. The planned alteration measures on wetlands in fields \_\_\_\_\_ are considered maintenance and are in compliance with FSA.

18. The planned alteration measures on wetlands in fields \_\_\_\_\_ are not considered to be maintenance and if installed will cause the area to become a Converted Wetland (CW). See item 16 for information on CW.

19. This wetland determination was completed in the: Office  Field

20. This determination was: Delivered  Mailed  To the Person on Date: \_\_\_\_\_

NOTE: If you do not agree with this determination, you may request a reconsideration from the person that signed this form in Block 22 below. The reconsideration is a prerequisite for any further appeal. The request for the reconsideration must be in writing and must state your reasons for the request. The request must be mailed or delivered within 15 days after this determination is mailed to or otherwise made available to you. Please see reverse side of the producer's copy of this form for more information on appeals procedure.

NOTE: If you intend to convert additional land to cropland or alter any wetlands, you must initiate another Form AD-1026 at the local office of ASCS. Abandonment is where land has not been cropped, managed, or maintained for 5 years or more. You should inform SCS if you plan to produce an agricultural commodity on abandoned wetlands.

21. Remarks

*Mike Auliff 00*

22. Signature of SCS District Conservationist

*Bruce E. VanLare* (Signature)

23. Date  
4/6/89

FIELD DETERMINATION  
HIGHLY ERODIBLE LAND

Owner Clarence Block  
Operator James Paasch  
County CLINTON  
Date 4/16/89

Total Acres \_\_\_\_\_  
Cropland Acres \_\_\_\_\_  
ASCS Farm No. \_\_\_\_\_  
Prepared by LJ

Tract No.	Field No.	Acres	SMU	Acres	Highly Erodible		IEL-SMU Acres Total Acres	Field Designation	Remarks
					Yes	No			
2546 2706	1	34.8						NHEL	H.S.
	2	2.1						NHEL	H.S.
	3	14.7						NHEL	H.S.
	4	20.6						NHEL	H.S.

HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION CERTIFICATION

NOTATION

The following statements are made in accordance with the Privacy Act of 1974 (5 USC 552a). The authority for requesting the information to be supplied on this form is the Food Security Act of 1985, P.L. 99-198, and regulations promulgated under the Act (7 CFR Part 12). The information will be used to determine eligibility for program benefits and other financial assistance administered by USDA agencies. The information may be furnished to other USDA agencies, IRS, Department of Justice, or other State and Federal law enforcement agencies, and in response to orders of a court magistrate or administrative tribunal. Furnishing the Social Security Number is voluntary. Furnishing the other requested information is voluntary; however, failure to furnish the correct, complete information will result in a determination of ineligibility for certain program benefits and other financial assistance administered by USDA agencies. The provisions of criminal and civil fraud statutes, including 18 USC 286, 287, 371, 641, 1001; 15 USC 714m; and 31 USC 3729, may be applicable to information provided by the producer on this form.

PART A - PRODUCER'S INTENTIONS FOR USE OF LAND

1. NAME AND ADDRESS OF PRODUCER <i>James P. Passer 6545 Lincolnway Clinton, Iowa</i>	2. SOCIAL SECURITY NUMBER (or tax ID number)		3. CROP YEAR <i>1989</i>
	4. FARM NUMBER(S) <i>257</i>	5. COUNTY(IES) WHERE LOCATED <i>Clinton</i>	

6. During either the crop year entered in item 3 above, or the term of a requested USDA loan, will an agricultural commodity be produced on fields of the farm(s) that were not used for the production of any agricultural commodity (see instructions) or not enrolled in a USDA set-aside or diversion program during any crop year 1981 through 1985? If "yes," list the farm and field numbers.	Yes	No
7. Will an agricultural commodity be produced on any land on the farm(s) listed above that was a wet area but was improved, drained, or modified, or converted after December 23, 1985? If "yes," list the farm and field numbers.		X
8. Do you plan to convert any land including wet areas for the production of an agricultural commodity this year or during the term of a requested USDA loan or other program benefit? If "yes," list the farm and field numbers.		X

I hereby certify that the above information is true and correct to the best of my knowledge and belief.

9. SIGNATURE OF PRODUCER: *James P. Passer*      DATE: *3/28/89*

10. Based on county office information, a SCS determination is:

a. Needed prior to the producer's certification in Part C.

b. Needed before January 1, 1990.

NOTE: If the producer answers "No" to Part A, items 6, 7, and 8, and the agency so agrees, the producer may complete the certification in Part C without a SCS determination. However, beginning January 1, 1990, or 2 years after a soil survey is completed, the producer must be actively applying an approved conservation plan on all highly erodible fields. Therefore, a SCS determination regarding the existence of any highly erodible fields on the farm(s) listed above is necessary before January 1, 1990.

11. DATE REFERRED TO SCS FOR DETERMINATION

12. SIGNATURE OF AGENCY REPRESENTATIVE

DATE

PART C - USE CERTIFICATION (Completed by producer)

13. As a condition of eligibility for any USDA loans or other program benefits, I hereby certify that:

a. I will not produce an agricultural commodity on highly erodible fields (except fields that, in any crop year between 1981 and 1985, were used to produce any agricultural commodity or were enrolled in a USDA set-aside or diversion program); and I will not use the proceeds of any FmHA loan, insured or guaranteed, received after December 23, 1985, for a purpose that will contribute to production of an agricultural commodity on these highly erodible fields, as determined by SCS, unless an approved conservation system has been fully applied.

b. I will not produce an agricultural commodity on converted wetlands or use proceeds from any FmHA farm loan, insured or guaranteed, received after December 23, 1985, for a purpose that will contribute to the conversion of a wetland to produce an agricultural commodity, as determined by SCS.

c. I will not convert wetlands or bring new lands into production for the purpose of producing an agricultural commodity without first consulting all USDA agencies with which (1) I have a current contract or loan agreement, insured or guaranteed, or (2) I have a crop insurance contract issued by or reinsured by the Federal Crop Insurance Corporation.

d. USDA representatives may enter upon my land for the purpose of confirming any of the above statements.

SIGNATURE OF PRODUCER: *James P. Passer*      DATE: *3/28/89*

14. REMARKS

UNITED STATES DEPARTMENT OF AGRICULTURE  
**HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION CERTIFICATION**

NOTE

The following statements are made in accordance with the Privacy Act of 1974 (5 USC 552a). The authority for requesting the information to be supplied on this form is the Food Security Act of 1985, P.L. 99-198, and regulations promulgated under the Act (7CFR Part 12). The information will be used to determine eligibility for program benefits and other financial assistance administered by USDA agencies. The information may be furnished to other USDA agencies, IRS, Department of Justice, or other State and Federal law enforcement agencies, and in response to orders of a court magistrate or administrative tribunal. Furnishing the Social Security Number is voluntary. Furnishing the other requested information is voluntary; however, failure to furnish the correct, complete information will result in a determination of ineligibility for certain program benefits and other financial assistance administered by USDA agencies. The provisions of criminal and civil fraud statutes, including 18 USC 286, 287, 371, 641, 1001; 15 USC 714m; and 31 USC 3729, may be applicable to information provided by the producer on this form.

**PART A - PRODUCER'S INTENTIONS FOR USE OF LAND**

1. NAME AND ADDRESS OF PRODUCER <i>Lester Auliff</i> <i>Michael Auliff</i>	2. SOCIAL SECURITY NUMBER (or tax ID number)	3. CROP YEAR
	488-46-8375	1987
	FARM NUMBER(S)	COUNTY(IES) WHERE LOCATED
	2002	5
	482-54-5502	

6. During either the crop year entered in item 3 above, or the term of a requested USDA loan, will an agricultural commodity be produced on fields of the farm(s) that were not used for the production of any agricultural commodity (see instructions) or not enrolled in an USDA set-aside or diversion program during any crop year 1981 through 1985? If "yes," list the farm and field numbers.	Yes	No
		<input checked="" type="checkbox"/>
7. Will an agricultural commodity be produced on any land on the farm(s) listed above that was a wet area but was improved, drained, or modified, or converted after December 23, 1985? If "yes," list the farm and field numbers.		<input checked="" type="checkbox"/>
8. Do you plan to convert any land including wet areas for the production of an agricultural commodity this year or during the term of a requested USDA loan or other program benefit? If "yes," list the farm and field numbers.		<input checked="" type="checkbox"/>

I hereby certify that the above information is true and correct to the best of my knowledge and belief.

9. SIGNATURE OF PRODUCER: *Michael Auliff Lester Auliff*      DATE: *1/2/86*

**PART B - REFERRAL TO SCS**      CHECK

10. Based on county office information, a SCS determination is:

a. Needed prior to the producer's certification in Part C.     

b. Needed before January 1, 1990.     

NOTE: If the producer answers "No" to Part A, items 6, 7, and 8, and the agency so agrees, the producer may complete the certification in Part C without a SCS determination. However, beginning January 1, 1990, or 2 years after a soil survey is completed, the producer must be actively applying an approved conservation plan on all highly erodible fields. Therefore, a SCS determination regarding the existence of any highly erodible fields on the farm(s) listed above is necessary before January 1, 1990.

11. DATE REFERRED TO SCS FOR DETERMINATION

12. SIGNATURE OF AGENCY REPRESENTATIVE: *Michael Auliff*      DATE: *1/2/86*

**PART C - USE CERTIFICATION (Completed by producer)**

13. As a condition of eligibility for any USDA loans or other program benefits, I hereby certify that:

a. I will not produce an agricultural commodity on highly erodible fields (except fields that, in any crop year between 1981 and 1985, were used to produce any agricultural commodity or were enrolled in a USDA set-aside or diversion program); and I will not use the proceeds of any FmHA loan, insured or guaranteed, received after December 23, 1985, for a purpose that will contribute to production of an agricultural commodity on these highly erodible fields, as determined by SCS, unless an approved conservation system has been fully applied.

b. I will not produce an agricultural commodity on converted wetlands or use proceeds from any FmHA farm loan, insured or guaranteed, received after December 23, 1985, for a purpose that will contribute to the conversion of a wetland to produce an agricultural commodity, as determined by SCS.

c. I will not convert wetlands or bring new lands into production for the purpose of producing an agricultural commodity without first consulting all USDA agencies with which (1) I have a current contract or loan agreement, insured or guaranteed, or (2) I have a crop insurance contract issued by the Federal Crop Insurance Corporation.

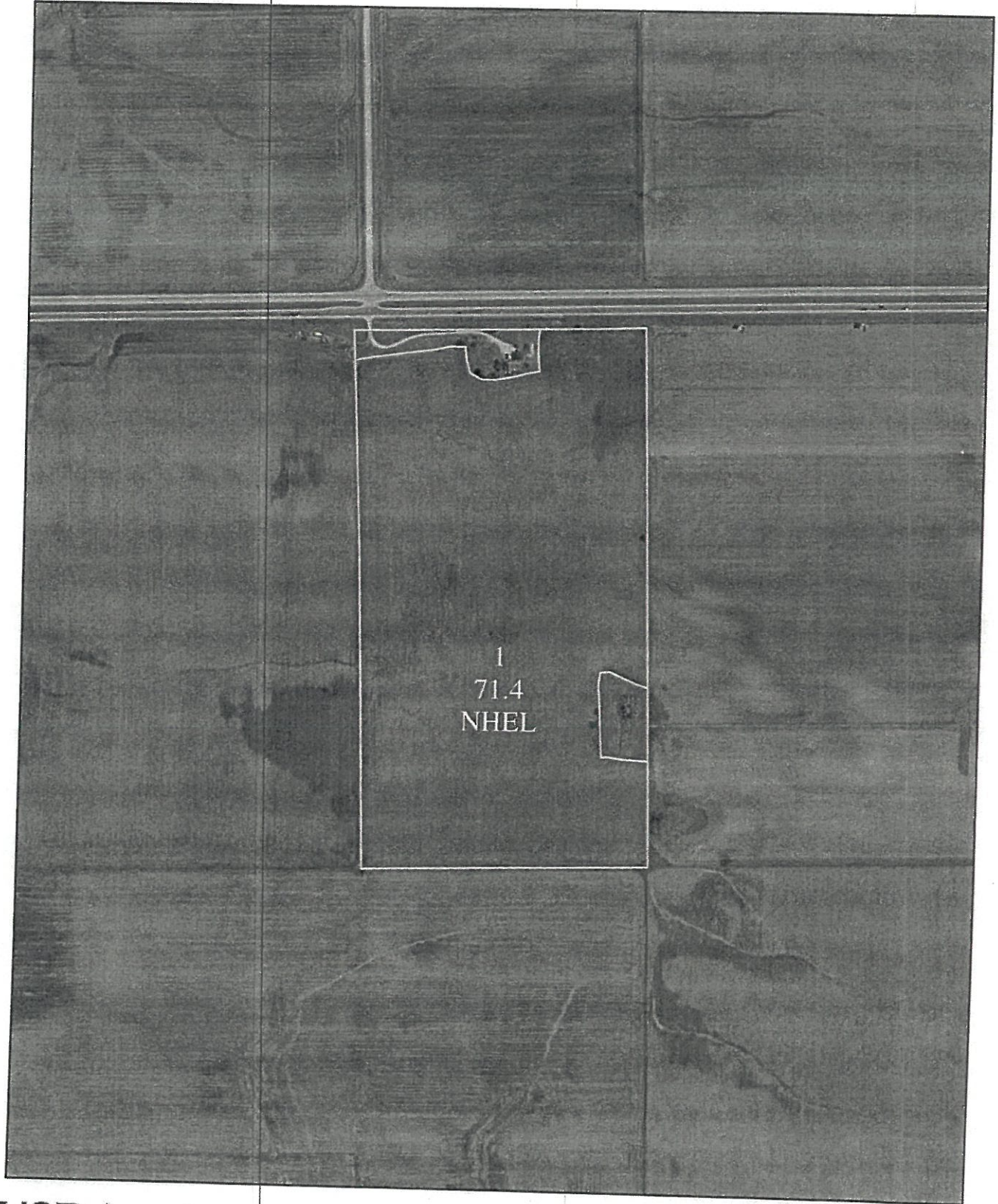
d. USDA representatives may enter upon my land for the purpose of confirming any of the above statements.

SIGNATURE OF PRODUCER: *Lester Auliff Michael Auliff*      DATE: *1/2/86*

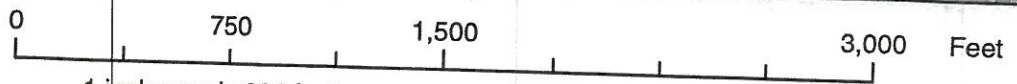
14. REMARKS

Farm# 626  
Tract# 12114

Sec: 24  
Township: Camanche



Clinton County FSA



1 inch equals 660 feet

March 16, 2006

**Legend**

- Wetland Determination

C-190

2706

C-107

3

14.7

37.8

4

20.6

138.7

L-112

24

40.2

39.4

~~31.0~~

2

~~26~~

5.4

C-65

~~57.4~~

136.3

2

~~14.7~~

37.7

C-168

9

10.0

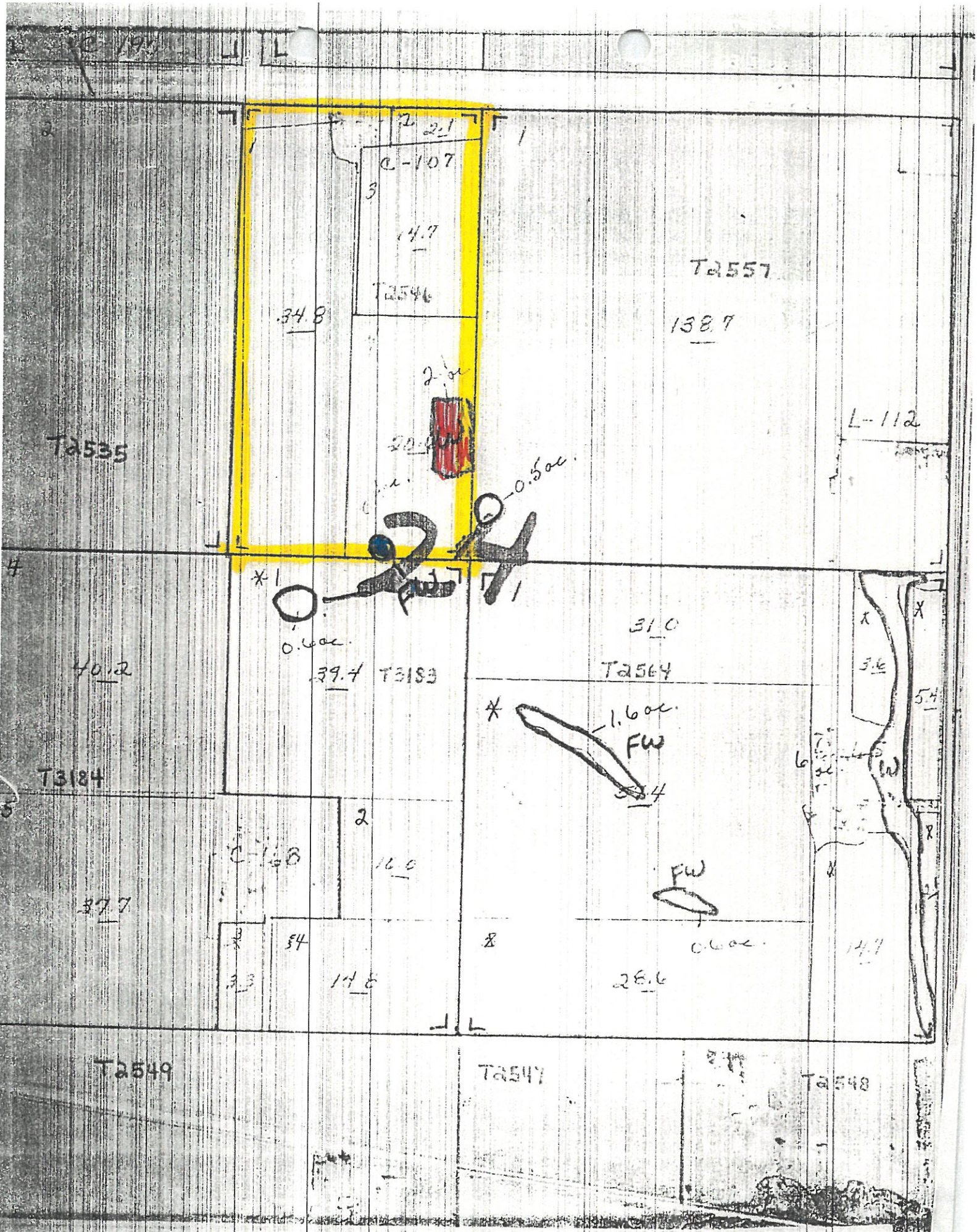
10

2.3

14.8

5

~~28.6~~





C-190

T 2546

NHEL

C-107

3

14.7

NHEL

34.8

4

NHEL

20.6

138.7

L-112

24

31.0

40.2

39.4

3.6

5.4

C-65

57.4

9

10.0

6

37.7

C-168

10

11

5

14.7

3.3

14.6

26.6



**HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION**

Name Address:	Tamara Neilsen (OP) 2670 - 380 <sup>th</sup> Ave Camanche, Iowa 52730  Clinton Area Development (OW)	Request Date:	12/13/06	County:	Clinton
Agency or Person Requesting Determination:	FSA	Tract No:	2564	FSA Farm No.:	213

**Section I - Highly Erodible Land**

Is a soil survey now available for making a highly erodible land determination?	Y
Are there highly erodible soil map units on this farm?	Y

Fields in this section have undergone a determination of whether they are highly erodible land (HEL) or not; fields for which an HEL Determination has not been completed are not listed. In order to be eligible for USDA benefits, a person must be using an approved conservation system on all HEL.

<u>Field(s)</u>	<u>HEL(Y/N)</u>	<u>Sodbust(Y/N)</u>	<u>Acres</u>	<u>Determination Date</u>
1	N	N	136.3	06/12/2006

The Highly Erodible Land determination was completed in the office

**Section II - Wetlands**

Are there hydric soils on this farm?	Y
--------------------------------------	---

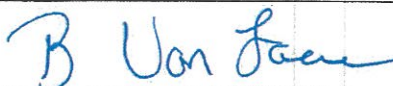
Fields in this section have had wetland determinations completed. See the Definition of Wetland Label Codes for additional information regarding allowable activities under the wetland conservation provisions of the Food Security Act and/or when wetland determinations are necessary to determine USDA program eligibility.

<u>Field(s)</u>	<u>Wetland Label*</u>	<u>Occurrence Year (CW)**</u>	<u>Acres</u>	<u>Determination Date</u>	<u>Certification Date</u>
1	PC/NW		129.8	01/29/2007	01/29/2007
1	PC/NW		3.7	01/29/2007	01/29/2007
1	NI		2.7	01/29/2007	01/29/2007
WL1	NW		0.5	01/29/2007	01/29/2007
HQ	NW		0.4	01/29/2007	01/29/2007

The wetland determination was completed in the FIELD It was MAILED to the person on 01/30/2007

Remarks: .There are no wetlands in areas that have had a wetland determination completed. There is a 2.7 acre area that has not had a determination completed.

I certify that the above determinations are correct and were conducted in accordance with policies and procedures contained in the National Food Security Act Manual.

Signature Designated Conservationist	Date
	1-31-07

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice or TDD). USDA is an equal opportunity provider and employer.



Natural  
Resources  
Conservation  
Service

DEWITT SERVICE CENTER  
1212 17<sup>th</sup> AVENUE  
DEWITT IOWA 52742-1083

January 29, 2007

Tamara Neilsen  
2670 – 380<sup>th</sup> Ave  
Camanche, Iowa 52730

COPY

Dear Tamara;

This is to notify you that as of the date of this letter, I am making a preliminary technical determination that:

- Field(s) in Section I of the attached NRCS-CPA-026 “HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION” form showing an “Y” under HEL are highly erodible because the highly erodible soil map units in the field constitutes MORE than 33.33 percent of the acreage in the field, or equal to 50 or more acres. An approved conservation system must be applied to these field(s) to remain eligible for most USDA program benefits.
- Field(s) shown in Section II of the attached NRCS-CPA-026 “HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION” form contains wetland determinations with the appropriate labels/certifications as indicated. See page two for label definitions.

If Section II has been filled out on the CPA-026 wetland certification it:

Includes “other waters of the United States” as defined by the United States Corps of Engineers.

Does not include “other waters of the United States” as defined by the United States Corps of Engineers, which include but are not limited to tidal waters, lakes, rivers, steams, mud flats, and intermittent and perennial streams which are regulated under the Clean Water Act. Contact the United States Corps of Engineers regarding needs for permits.

In order to maintain your USDA program eligibility and comply with the Clean Water Act, contact us prior to performing the following activities:

- Land clearing
- Drainage (tile or open ditching)
- Filling, leveling, or dredging
- Land use changes
- Any activity involving “other waters of the United States” as defined above

As of January 16, 1996, the United States Department of Agriculture has initiated a major revision to the appeal process within the Department. The revised process implements statutory changes in agency appeal authorities that were set forth in the Federal Crop Insurance Reform and Department of Agriculture Reorganization Act of 1994. As a result of statutory and regulatory changes, the Natural Resources Conservation Service (NRCS) appeal process has changed. Under the new appeals process, this preliminary technical determination will become final within 30 days unless you request either of the following options:



Natural  
Resources  
Conservation  
Service

DEWITT SERVICE CENTER  
1212 17<sup>th</sup> AVENUE  
DEWITT IOWA 52742-1083

January 29, 2007

Clinton Area Development Corp  
1219 S 2<sup>nd</sup> St  
Clinton, Iowa 52732

Dear Clinton Area Development Corp;

This is to notify you that as of the date of this letter, I am making a preliminary technical determination that:

- Field(s) in Section I of the attached NRCS-CPA-026 "HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION" form showing an "Y" under HEL are highly erodible because the highly erodible soil map units in the field constitutes MORE than 33.33 percent of the acreage in the field, or equal to 50 or more acres. An approved conservation system must be applied to these field(s) to remain eligible for most USDA program benefits.
- Field(s) shown in Section II of the attached NRCS-CPA-026 "HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION" form contains wetland determinations with the appropriate labels/certifications as indicated. See page two for label definitions.

If Section II has been filled out on the CPA-026 wetland certification it:

Includes "other waters of the United States" as defined by the United States Corps of Engineers.

Does not include "other waters of the United States" as defined by the United States Corps of Engineers, which include but are not limited to tidal waters, lakes, rivers, streams, mud flats, and intermittent and perennial streams which are regulated under the Clean Water Act. Contact the United States Corps of Engineers regarding needs for permits.

In order to maintain your USDA program eligibility and comply with the Clean Water Act, contact us prior to performing the following activities:

- Land clearing
- Drainage (tile or open ditching)
- Filling, leveling, or dredging
- Land use changes
- Any activity involving "other waters of the United States" as defined above

As of January 16, 1996, the United States Department of Agriculture has initiated a major revision to the appeal process within the Department. The revised process implements statutory changes in agency appeal authorities that were set forth in the Federal Crop Insurance Reform and Department of Agriculture Reorganization Act of 1994. As a result of statutory and regulatory changes, the Natural Resources Conservation Service (NRCS) appeal process has changed. Under the new appeals process, this preliminary technical determination will become final within 30 days unless you request either of the following options:

- (1) That a field visit be made by our office to review with you the basis for our preliminary technical determination, answer any questions you have concerning the determination, and to gather additional information from you concerning the preliminary determination.
- (2) That mediation is used in an attempt to settle your concerns with the preliminary technical determination. Mediation is a process in which a trained, impartial person (a neutral mediator) helps look at mutual problems, identify and consider options, and determine if we can agree on a solution. Unlike an appeal, mediation is private, confidential, and informal. The mediator will help us work together to evaluate the information in your case and to identify alternatives that will assist us in resolving the dispute. The mediator has no decision-making authority. Unlike the appeal process, a mediator cannot decide what is "right" or "make" anyone do anything. If the mediation is successful, the mediator will help us to reach an agreement and document that solution in writing. Each party will sign the agreement, and receive a copy. If an agreement is not reached, the mediation process ends, and you may continue to pursue your appeal. If you choose mediation, you must contact the mediator directly and make arrangements for the mediation process. Contact:

Iowa Mediation Service  
1025 Ashworth Road Suite 400  
Tel (515) 331-8081 FAX (515) 331-8085  
E-mail: [info@iowamediation service.com](mailto:info@iowamediation service.com)

If you choose mediation NRCS will pay up to one half of the costs that are reasonable which are associated with securing the services of a trained mediator when the services are provided on other than a voluntary basis. The NRCS will have final discretion over what is considered appropriate and reasonable.

A final technical determination will be issued within 30 days after the field visit, if one is requested, and/or within 30 days following the completion of mediation. If neither is requested this preliminary determination becomes final on **02/28/2007**. The final technical determination, whether it is a result of the expiration of the 30 day period following receipt of this preliminary technical determination or receipt of a final determination may be appealed to the Farm Service Agency Clinton County Committee at the address below. If you don't take action during the preliminary 30-day period, your appeal rights begin **02/28/2007** and end on **03/30/2007**. We will forward a copy of our administrative record to the County committee for their use in deciding your appeal, should you decide to appeal to the County Committee.

Clinton County Committee - Farm Service Agency  
1212 17<sup>th</sup> Avenue, DeWitt, Iowa 52742-1083  
Phone: 563-659-3456

If you are the owner of this tract of land and have a tenant, I urge you to discuss this letter and accompanying NRCS-CPA-026 form with your tenant. Likewise, if you are the tenant of this tract of land, I urge you to discuss this letter with your landlord.

Sincerely,



Bruce E. Van Laere  
District Conservationist

**HIGHLY ERODIBLE LAND CONSERVATION (HEL) AND WETLAND CONSERVATION (WC) CERTIFICATION**

(See Page 3 for Nondiscrimination, Public Burden and Privacy Act Statements.)

1. Name of Producer <b>Tami Nielsen</b>		2. I.D. Number (Last 4 digits only) <b>6713</b>		3. Crop Year <b>2007</b>	
4. Do you have any interest in land that produces or could produce an agricultural commodity? <i>If "YES", or, if you are a Farm Loan Applicant continue with Item 5. If "NO", and you are not a farm loan applicant, go to Item 12 and sign and date.</i>				YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
5. <i>For farm loan applicants only:</i> Will you conduct any activities for fish production, trees, vineyards, shrubs, building construction, or any other non-agricultural purposes on lands for which a wetland determination has not been completed by NRCS?				<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are you a landlord or tenant on any farm that will not be in compliance with HELC and WC provisions? <i>If "YES", enter the farm number or contact your County FSA Office before completing this form. Farm Number: _____</i> <i>(Contact your county FSA office if you are unsure of the HEL or wetland determinations applicable to your farming interest.)</i>				<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Do any of your landlords refuse to comply with HELC requirements on any farms? <i>If "YES", enter the farm number or contact your County FSA Office before completing this form. Farm Number: _____</i>				<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. List affiliated persons with farming interests. See Page 3 for an explanation. Enter "NONE", if applicable. <b>None</b>					
9. During the crop year entered in item 3 above, or the term of a requested USDA loan, did or will you plant and produce an agricultural commodity on land for which a highly erodible determination has not been made?				YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
10. Since December 23, 1985, or during the current crop year, or during the term of a requested USDA loan, has anyone performed, or will anyone perform any activities to:					
A. Create new drainage systems, or conduct land leveling, filling, dredging, land clearing, or stump removal, that has NOT been evaluated by NRCS? <i>If "YES", indicate year(s): _____</i>				<input type="checkbox"/>	<input checked="" type="checkbox"/>
B. Improve, or modify an existing drainage that has NOT been evaluated by NRCS? <i>If "YES", indicate year(s): <u>2007</u></i>				<input checked="" type="checkbox"/>	<input type="checkbox"/>
C. Maintain an existing drainage system that has NOT been evaluated by NRCS? <i>If "YES", indicate year(s): <u>2007</u></i> <small>Note: Maintenance is the repair, rehabilitation, or replacement of the capacity of existing drainage systems to allow for the continued use of wetlands currently in agricultural production and the continued management of other areas as they were used before December 23, 1985. This allows a person to reconstruct or maintain the capacity of the original system or install a replacement system that is more durable or will realize lower maintenance or costs.</small>				<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. If "YES" to Items 5, 9, or 10 enter the following for the land the answer applies to:					
A. Farm and/or tract/field number: <u>#213 Tract #2564 Farm#380 Tract #2176</u>					
B. Activity: <u>reshape waterway</u> <u>reshape waterway + add tile</u>					
C. Current land use (specify crops): <u>waterway</u> <u>waterway</u>					
D. County: <u>Clinton</u> <u>Clinton</u>					

A "YES" answer in Items 5, 9, or 10 authorizes FSA to refer this AD-1026 to NRCS. If you check "YES" to Item 10C, NRCS does not have to conduct a certified wetland determination. (Contact your County FSA Office if you are unsure about the answers to Items 5, 9 and 10.)

**Continuous AD-1026 Certification:**

I have read the AD-1026 Appendix and understand and agree that my eligibility for certain USDA program benefits is contingent upon this certification of compliance with the highly erodible land and wetland conservation provisions of the Food Security Act of 1985 as amended, and if a determination is made that results in a violation and ineligibility, I agree to refund all applicable payments.

- I agree to the terms and conditions stated on AD-1026 Appendix on all land in which I have or will have an interest and understand that I am responsible for any non-compliance with these provisions.
- I agree that I will file a revised AD-1026 if there are any changes in my operation or activities that may affect compliance with these provisions.
- I understand that affiliated persons are also subject to compliance with these provisions and their failure to comply or file AD-1026 will result in loss of eligibility to persons or enterprises with whom they are affiliated. (See Page 3 of this form for affiliated persons.)

12. Signature of Producer  <u>Tami J. Nielsen</u> Producer's Signature		I hereby certify that the information on this form is true and correct to the best of my knowledge, and I authorize NRCS to make a HEL and/or certified wetland determination on the tract or farm numbers listed above.		Date (MM-DD-YYYY) <u>12-13-06</u>	
13. Referral to NRCS (Completed by FSA) Sign and date if a NRCS determination is needed for any reason including a "YES" answer in Items 5, 9, 10A, 10B, or 10C.		13A. Signature of FSA Representative <u>Elaine Franck</u>		13B. Date (MM-DD-YYYY) <u>12-13-06</u>	

ORIGINAL - FSA COPY

NRCS COPY

PRODUCER'S COPY

**PRODUCER INFORMATION**

Producer Name and Address  
 TAMARA J NIELSEN  
 2670 380TH AVE  
 CAMANCHE IA 52730-9661  
 Telephone: (563) 522-2934  
 Email Address: None

Recording County Office Name  
 Clinton, Iowa  
 Telephone:  
 Fax Number:  
 CED:  
 CED's Email Address:

**FARMING INTEREST (by producer)**

State/ County Code	FSN	Tract	Relationship to Farm Tract	Cropland	Owner	HEL	Wetland
19/045	213	2564	Other Tenant	141.9 133.0	CLINTON AREA DEVELOPMENT CORP	Classified as not HEL	Tract does not contain a WL
19/045	215	2522	Other Tenant	196.3	PETER J LASSEN	Classified as not HEL	Tract does not contain a WL
19/045	380	2176	Other Tenant	190.0	EDEN DEVELOPMENT CO	HEL: conservation system is being actively applied	Tract does not contain a WL
19/045	386	2323	Other Tenant	154.0	KENNETH E SMITH	Classified as not HEL	Tract does not contain a WL
19/045	418	2160	Other Tenant	76.2	KENNETH C BERNER	Classified as not HEL	WL Determinations not complete
19/045	4193	1849	Other Tenant	39.0	LUCINDA HILBERT	Classified as not HEL	Tract does not contain a WL
19/045	4193	2175	Other Tenant	116.4	LUCINDA HILBERT	Classified as not HEL	Tract does not contain a WL
19/045	4679	11151	Other Tenant	116.3	MARILYN J SCHEEPER	Classified as not HEL	Tract does not contain a WL
19/045	4903	10537	Other Tenant	54.2	ARNOLD KUNDE	Classified as not HEL	Tract does not contain a WL
19/045	5770	11803	Other Tenant	108.2	SARA MEGGERS	Classified as not HEL	Tract does not contain a WL

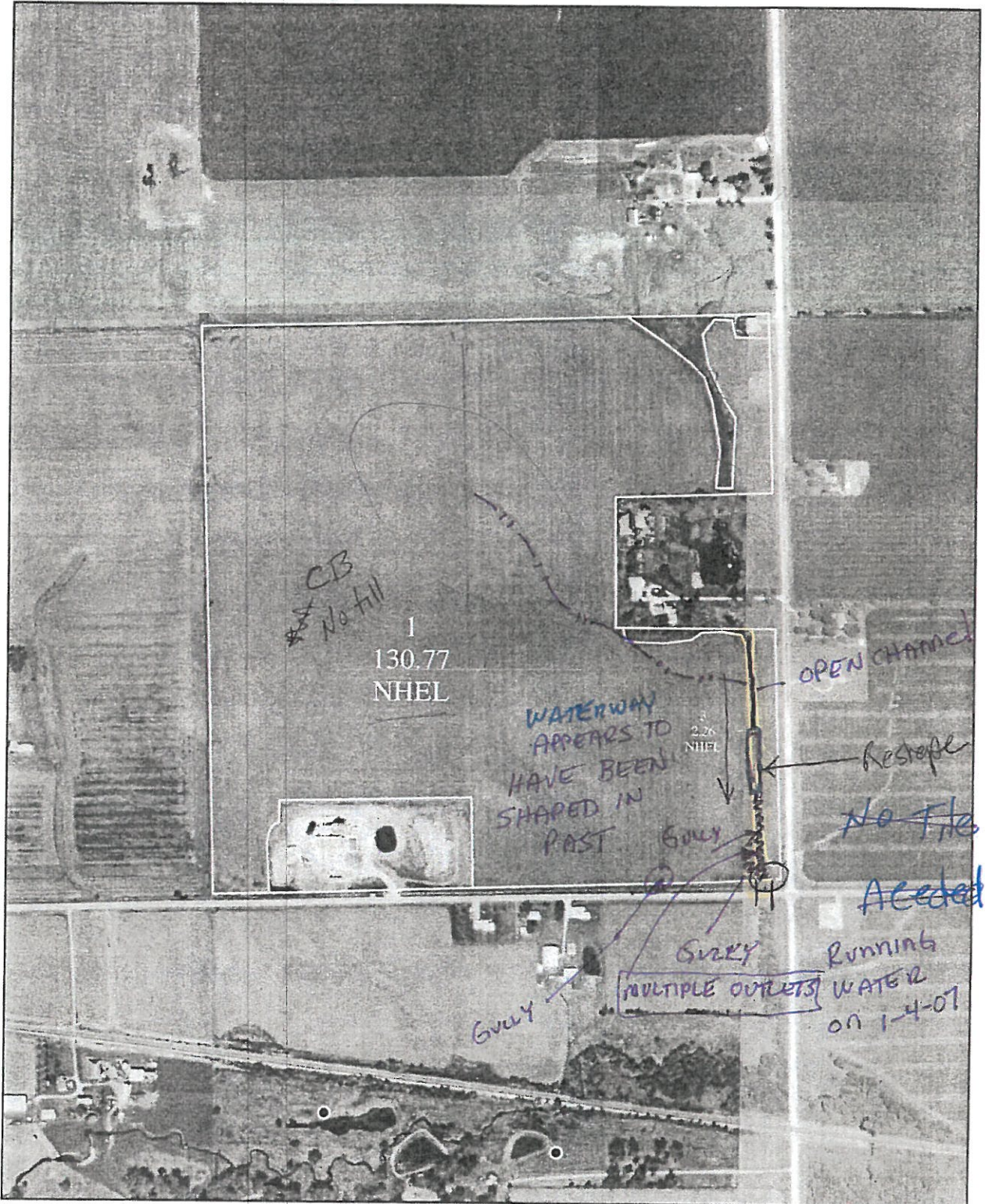
FARMING INTEREST (by producer)

State/ County Code	FSN	Tract	Relationship to Farm Tract	Cropland	Owner	HEL	Wetland
19/045	5770	11804	Other Tenant	12.7	SARA MEGGERS	Classified as not HEL	Tract does not contain a WL
19/045	6081	10622	Other Tenant	<del>46.5</del> 141.2	MARSHALL MARKEY EXEMPT MARITAL	Classified as not HEL	Tract does not contain a WL
19/045	6093	2171	Owner	149.3	TAMARA J NIELSEN	Classified as not HEL	WL or farmed WL under natural conditions and no drainage has occurred
19/045	6093	10308	Owner	10.5	TAMARA J NIELSEN	Classified as not HEL	Tract does not contain a WL
19/045	6136	2190	Other Tenant	77.2	MARY LUCILE OTEY	Classified as not HEL	Tract does not contain a WL
19/045	6338	2328	Other Tenant	59.1	SHIRLEY NIELSEN	Classified as not HEL	Tract does not contain a WL
19/045	6338	10617	Other Tenant	77.2	SHIRLEY NIELSEN	Classified as not HEL	Tract does not contain a WL
19/045	6338	10618	Other Tenant	151.1	SHIRLEY NIELSEN	Classified as not HEL	Tract does not contain a WL
19/045	6339	10536	Other Tenant	44.3	DOROTHY M PAARMANN	Classified as not HEL	Tract does not contain a WL
19/045	6339	11654	Other Tenant	66.3	DOROTHY M PAARMANN	Classified as not HEL	Tract does not contain a WL
19/045	6339	11655	Other Tenant	57.0	DOROTHY M PAARMANN	Classified as not HEL	Tract does not contain a WL
19/045	6339	11656	Other Tenant	39.2	DOROTHY M PAARMANN	Classified as not HEL	Tract does not contain a WL
19/045	6339	11657	Other Tenant	102.3	DOROTHY M PAARMANN	Classified as not HEL	Tract does not contain a WL

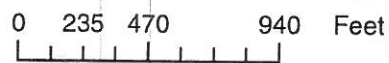
TN 12-13-06

Farm# 213  
Tract# 2564

Sec 24  
Township: Euen



Clinton County FSA



1 inch equals 660 feet

December 13, 2006

### Legend

- Wetland Determination
- Field Boundary

Ralph, Marcia, & Marjorie Curtis- owners

U.S.D.A.  
Soil Conservation Service

SCS-CP 26  
(June 91)

1. Name and Address of Person  
Alan G. Curtis  
RR #1 Box 153  
Long Grove, Iowa 52756

2. Date of Request  
6-15-92  
3. County  
Clinton  
~~XXXXXX~~

**HIGHLY ERODIBLE LAND AND WETLAND  
CONSERVATION DETERMINATION**

4. Name of USDA Agency or Person Requesting Determination

5. Farm No. and Tract No.  
213 T2564

**SECTION I - HIGHLY ERODIBLE LAND**

	FIELD NO.(s)	TOTAL ACRES
6. Is soil survey now available for making a highly erodible land determination? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
7. Are there highly erodible soil map units on this farm? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
8. List highly erodible fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.	NONE	-
9. List highly erodible fields that have been or will be converted for the production of agricultural commodities and, according to ASCS records, were not used for this purpose in any crop year during 1981-1985; and were not enrolled in a USDA set-aside or diversion program.	NONE	-
10. This Highly Erodible Land determination was completed in the: Office <input checked="" type="checkbox"/> Field <input type="checkbox"/>		

**SECTION II - WETLAND**

	FIELD NO.(s)	TOTAL ACRES
11. Are there hydric soils on this farm? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
12. Wetlands (W), including abandoned wetlands, or Farmed Wetlands (FW) or Farmed Wetlands Pasture (FWP). Wetlands may be farmed under natural conditions. Farmed Wetlands and Farmed Wetlands Pasture may be farmed and maintained in the same manner as they were prior to December 23, 1985, as long as they are not abandoned.	To Be Completed	
13. Prior Converted Cropland (PC). Wetlands that were converted prior to December 23, 1985. The use, management, drainage, and alteration of prior converted cropland (PC) are not subject to the wetland conservation provisions unless the area reverts to wetland as a result of abandonment.	At A Later Date	
14. Artificial Wetlands (AW). Artificial wetlands includes irrigation-induced wetlands. These wetlands are not subject to the wetland conservation provisions.		
15. Minimal Effect Wetlands (MW). These wetlands are to be farmed according to the minimal-effect agreement signed at the time the minimal-effect determination was made.		
16. Mitigation Wetlands (MIW). Wetlands on which a person is actively mitigating a frequently cropped area or a wetland converted between December 23, 1985 and November 28, 1990.		
17. Restoration with Violation (RVW+year). A restored wetland that was in violation as a result of conversion after November 28, 1990, or the planting of an agricultural commodity or forage crop.		
18. Restoration without Violation (RSW). A restored wetland converted between December 23, 1985 and November 28, 1990, on which an agricultural commodity has not been planted.		
19. Replacement Wetlands (RPW). Wetlands which are converted for purposes other than to increase production, where the wetland values are being replaced at a second site.		
20. Good Faith Wetlands (GFW+year). Wetlands on which ASCS has determined a violation to be in good faith and the wetland has been restored.		
21. Converted Wetlands (CW). Wetlands converted after December 23, 1985 and prior to November 28, 1990. In any year that an agricultural commodity is planted on these Converted Wetlands, you will be ineligible for USDA benefits.		
22. Converted Wetland (CW+year). Wetlands converted after November 28, 1990. You will be ineligible for USDA program benefits until this wetland is restored.		
23. Converted Wetland Non-Agricultural use (CWNA). Wetlands that are converted for trees, fish production, shrubs, cranberries, vineyards or building and road construction.		
24. Converted Wetland Technical Error (CWTE). Wetlands that were converted as a result of incorrect determination by SCS.		
25. The planned alteration measures on wetlands in fields _____ are considered maintenance and are in compliance with FSA.		
26. The planned alteration measures on wetlands in fields _____ are not considered to be maintenance and if installed will cause the area to become a Converted Wetland (CW). See item 22 for information on CW+year.		
27. The wetland determination was completed in the office <input type="checkbox"/> field <input type="checkbox"/> and was delivered <input type="checkbox"/> mailed <input type="checkbox"/> to the person on _____.		
28. Remarks.		

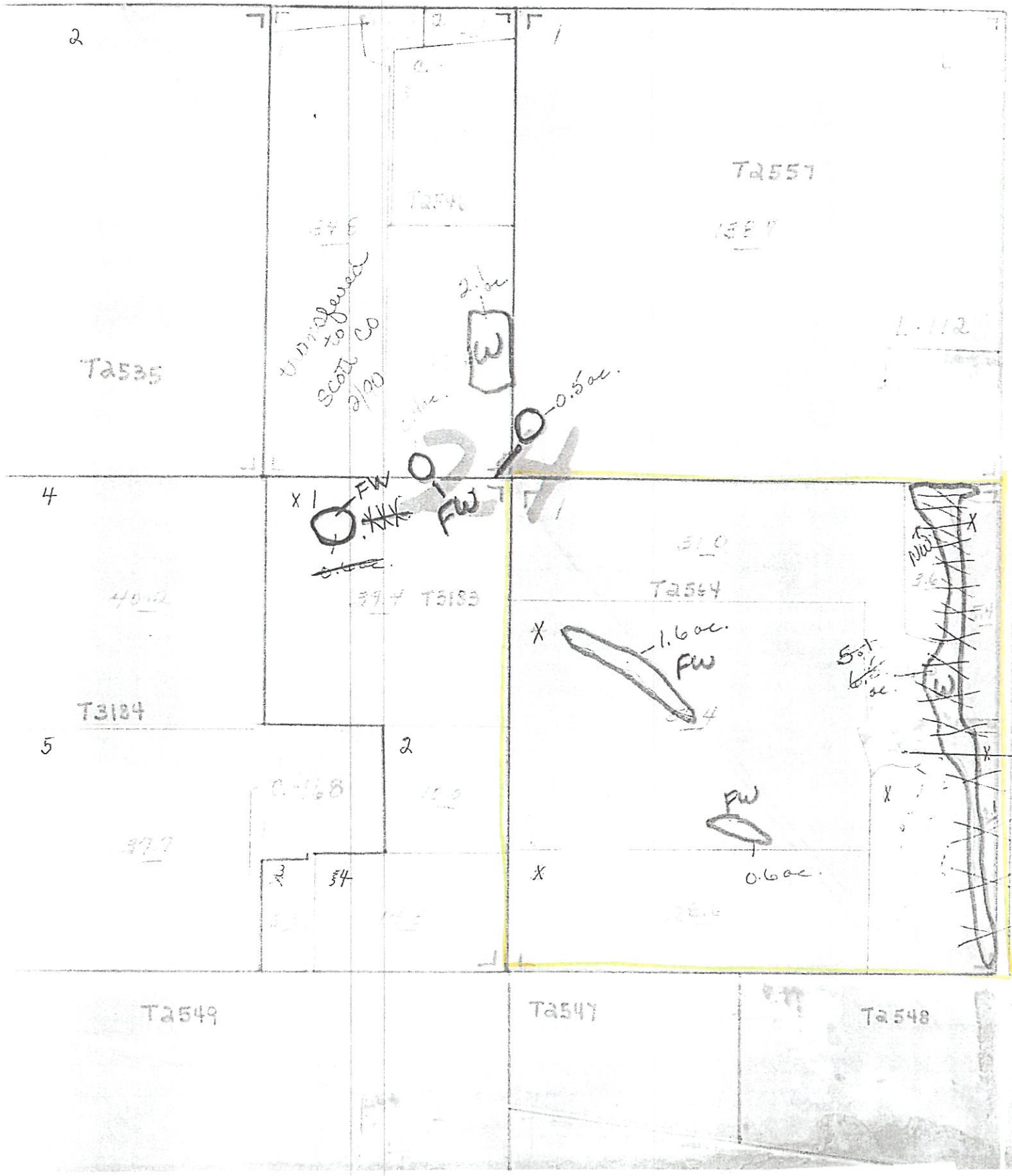
REVISION DUE TO FIELD REDIFINATION

29. I certify that the above determination is correct and adequate for use in determining eligibility for USDA program benefits, and that wetland hydrology, hydric soils, and hydrophytic vegetation under normal circumstances exist on all areas outlined as Wetlands, Farmed Wetlands, and Farmed Wetlands Pasture.

30. Signature of SCS District Conservationist  
Bruce Van Der

31. Date  
6-16-92

Assistance and programs of the Soil Conservation Service available without regard to race, religion, color, sex, age, or handicap.



T2535

T2551

T2544

T2547

L-112

unimproved  
Scott Co  
2/20

2.0 ac.  
W

0.5 ac.

210

4

X 1 FW  
0.\*\*\*

FW

310

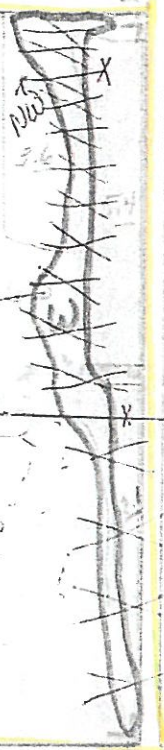
T2544

40.12

37.7 T2549

X 1.6 ac.  
FW

5.0 ac.  
6.0 ac.



5

T3124

0.168

2

37.7

34

FW

0.6 ac.

T2549

T2547

T2548

JESSIE DUNN, OW

U.S.D.A.  
Soil Conservation Service

SCS-CPA-026  
(June 91)

1. Name and Address of Person

JOHN E. THOMAS  
RR 1  
CAMANCHE IA 52730

2. Date of Request

11-13-91

3. County

CLINTON

**HIGHLY ERODIBLE LAND AND WETLAND  
CONSERVATION DETERMINATION**

4. Name of USDA Agency or Person Requesting Determination

FMHA

5. Farm No. and Tract No.

3428

T3184

**SECTION I - HIGHLY ERODIBLE LAND**

	FIELD NO.(s)	TOTAL ACRES
6. Is soil survey now available for making a highly erodible land determination? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
7. Are there highly erodible soil map units on this farm? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
8. List highly erodible fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.	NONE	-0-
9. List highly erodible fields that have been or will be converted for the production of agricultural commodities and, according to ASCS records, were not used for this purpose in any crop year during 1981-1985; and were not enrolled in a USDA set-aside or diversion program.	NONE	-0-
10. This Highly Erodible Land determination was completed in the: Office <input checked="" type="checkbox"/> Field <input type="checkbox"/>		

**SECTION II - WETLAND.**

	FIELD NO.(s)	TOTAL ACRES
11. Are there hydric soils on this farm? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
12. Wetlands (W). Including abandoned wetlands, or Farmed Wetlands (FW) or Farmed Wetlands Pasture (FWP). Wetlands may be farmed under natural conditions. Farmed Wetlands and Farmed Wetlands Pasture may be farmed and maintained in the same manner as they were prior to December 23, 1985, as long as they are not abandoned.	NONE	-0-
13. Prior Converted Cropland (PC). Wetlands that were converted prior to December 23, 1985. The use, management, drainage, and alteration of prior converted cropland (PC) are not subject to the wetland conservation provisions unless the area reverts to wetland as a result of abandonment.	1	1.2
14. Artificial Wetlands (AW). Artificial wetlands includes irrigation-induced wetlands. These wetlands are not subject to the wetland conservation provisions.	NONE	-0-
15. Minimal Effect Wetlands (MW). These wetlands are to be farmed according to the minimal-effect agreement signed at the time the minimal-effect determination was made.		
16. Mitigation Wetlands (MIW). Wetlands on which a person is actively mitigating a frequently cropped area or a wetland converted between December 23, 1985 and November 28, 1990.		
17. Restoration with Violation (RVW+year). A restored wetland that was in violation as a result of conversion after November 28, 1990, or the planting of an agricultural commodity or forage crop.		
18. Restoration without Violation (RSW). A restored wetland converted between December 23, 1985 and November 28, 1990, on which an agricultural commodity has not been planted.		
19. Replacement Wetlands (RPW). Wetlands which are converted for purposes other than to increase production, where the wetland values are being replaced at a second site.		
20. Good Faith Wetlands (GFW+year). Wetlands on which ASCS has determined a violation to be in good faith and the wetland has been restored.		
21. Converted Wetlands (CW). Wetlands converted after December 23, 1985 and prior to November 28, 1990. In any year that an agricultural commodity is planted on these Converted Wetlands, you will be ineligible for USDA benefits.		
22. Converted Wetland (CW+year). Wetlands converted after November 28, 1990. You will be ineligible for USDA program benefits until this wetland is restored.		
23. Converted Wetland Non-Agricultural use (CWNA). Wetlands that are converted for trees, fish production, shrubs, cranberries, vineyards or building and road construction.		
24. Converted Wetland Technical Error (CWTE). Wetlands that were converted as a result of incorrect determination by SCS.		
25. The planned alteration measures on wetlands in fields _____ are considered maintenance and are in compliance with FSA.		
26. The planned alteration measures on wetlands in fields _____ are not considered to be maintenance and if installed will cause the area to become a Converted Wetland (CW). See Item 22 for information on CW+year.		
27. The wetland determination was completed in the office <input checked="" type="checkbox"/> field <input type="checkbox"/> and was delivered <input type="checkbox"/> mailed <input checked="" type="checkbox"/> to the person on 11-15-91.		

28. Remarks. "Smaller streams are not delineated on the attached photo but may be FSA wetlands. Before initiating any action to alter any stream channel, check with SCS"

29. I certify that the above determination is correct and adequate for use in determining eligibility for USDA program benefits, and that wetland hydrology, hydric soils, and hydrophytic vegetation under normal circumstances exist on all areas outlined as Wetlands, Farmed Wetlands, and Farmed Wetlands Pasture.  
30. Signature of SCS District Conservationist: Bruce Ward Lauer  
31. Date: 11-13-91

SCS-GPA-026 (1/87)

**HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION**

1. NAME AND ADDRESS OF PRODUCER  
L. W. THOMPSON FARM CORP  
R 1 BOX 130  
CLINTON IA 52732

2. DATE OF REQUEST  
12/21/87

3. NAME OF USDA AGENCY OR PRODUCER REQUESTING DETERMINATION  
ASCS

4. FARM NO. AND TRACT NO. (S)  
222 3184

5. COUNTY  
CLINTON

**SECTION I - HIGHLY ERODIBLE LAND**

6. Is a soil survey now available for making a highly erodible land determination?

7. Are there highly erodible soil map units on this farm?

8. a. List highly erodible tract and fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.

b. Is an approved conservation plan being actively applied on all of these fields? If "no," list the tract and fields (from the ASCS records) on which a plan is not being applied.

9. a. List highly erodible tract and fields that, according to ASCS records, have been or will be converted for the production of agricultural commodities, were not used for this purpose in any crop year during 1981-1985 and were not enrolled in a USDA set-aside or diversion program.

b. Is an approved conservation system being used on these fields? If "no," list the tract and fields (from the ASCS records) on which a system is not being used.

10. Are other fields or unnumbered areas that (1) have highly erodible map units, (2) were not used to produce an agricultural commodity in any crop year after 1980, and (3) were not enrolled in a USDA set-aside or diversion program in any crop year during 1981-1985?

11. CERTIFICATION: The \_\_\_\_\_ (no.) conservation plan(s) was (were) approved by the \_\_\_\_\_ Conservation District on \_\_\_\_\_ (no.), \_\_\_\_\_, and conform with technical requirements of the SCS field office technical guide. Conservation systems included in the conservation plan(s) applied \_\_\_\_\_ (no.).

**SECTION II - WETLAND**

12. Are hydric soils on this farm? If "yes," list tract and fields (from the ASCS records) or unnumbered areas (un) in which they occur.

13. Do fields that were or will be used to produce an agricultural commodity contain wetland? If "yes," list tract and fields, outline the wetland areas within fields on the ASCS photograph(s), and mark with "w" for wetland; "aw" for artificial and irrigation induced wetland; "mw" for wetland on which the conversion would result in minimal effect.

14. Are there converted wetlands on this farm that have been converted since December 23, 1985? If "yes," list the tract and fields, outline converted wetlands on the ASCS photograph(s), and mark with "cw."

15. The wetland determination was done in the office  field

16. This determination was hand delivered  mailed  to the producer on \_\_\_\_\_ (DATE)

Any producer who does not agree with this determination may request reconsideration from the person making this determination. This request is a prerequisite for any further appeal. The request must be in writing and must set forth reasons for the request. The request must be mailed or delivered within 15 days after written notice of the determination is mailed to or otherwise made available to the producer.

17. REMARKS

	YES		NO		TRACT NO.	FIELD NO.(S)	TOTAL ACRES
	YES	NO	YES	NO			
12.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	T3184	1,2,3,4,5	
13.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
14.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
15.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
16.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

18. SIGNATURE OF SCS DISTRICT CONSERVATIONIST  
Bruce Van Laere / MVL

Assistance and programs of the Soil Conservation Service are available without regard to race, religion, color, sex, age, handicap, or national origin.

Distribution: White--ASCS-FCIC Goldenrod--SCS copy Pink--Producer copy Yellow--FmHA

DATE 4/20/88

MARY JEANNE DODDS,

U.S.D.A.  
Soil Conservation Service

SCS-CPA-026  
(June 91)

1. Name and Address of Person

JOHN E. THOMAS  
RR 1  
CAMANCHE IA 52730

2. Date of Request

11-13-91

3. County

CLINTON

**HIGHLY ERODIBLE LAND AND WETLAND  
CONSERVATION DETERMINATION**

4. Name of USDA Agency or Person Requesting Determination

FMHA

5. Farm No. and Tract No.

3428

T3183

**SECTION I - HIGHLY ERODIBLE LAND**

6. Is soil survey now available for making a highly erodible land determination? Yes  No

7. Are there highly erodible soil map units on this farm? Yes  No

8. List highly erodible fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.

FIELD NO.(s)	TOTAL ACRES
NONE	-0-

9. List highly erodible fields that have been or will be converted for the production of agricultural commodities and, according to ASCS records, were not used for this purpose in any crop year during 1981-1985; and were not enrolled in a USDA set-aside or diversion program.

FIELD NO.(s)	TOTAL ACRES
NONE	-0-

10. This Highly Erodible Land determination was completed in the: Office  Field

**SECTION II - WETLAND**

11. Are there hydric soils on this farm? Yes  No

12. Wetlands (W), including abandoned wetlands, or Farmed Wetlands (FW) or Farmed Wetlands Pasture (FWP). Wetlands may be farmed under natural conditions. Farmed Wetlands and Farmed Wetlands Pasture may be farmed and maintained in the same manner as they were prior to December 23, 1985, as long as they are not abandoned.

FIELD NO.(s)	TOTAL ACRES
NONE	-0-

13. Prior Converted Cropland (PC). Wetlands that were converted prior to December 23, 1985. The use, management, drainage, and alteration of prior converted cropland (PC) are not subject to the wetland conservation provisions unless the area reverts to wetland as a result of abandonment.

FIELD NO.(s)	TOTAL ACRES
1	0.6

14. Artificial Wetlands (AW). Artificial wetlands includes irrigation-induced wetlands. These wetlands are not subject to the wetland conservation provisions.

FIELD NO.(s)	TOTAL ACRES
NONE	-0-

15. Minimal Effect Wetlands (MW). These wetlands are to be farmed according to the minimal-effect agreement signed at the time the minimal-effect determination was made.

16. Mitigation Wetlands (MIW). Wetlands on which a person is actively mitigating a frequently cropped area or a wetland converted between December 23, 1985 and November 28, 1990.

17. Restoration with Violation (RVW+year). A restored wetland that was in violation as a result of conversion after November 28, 1990, or the planting of an agricultural commodity or forage crop.

18. Restoration without Violation (RSW). A restored wetland converted between December 23, 1985 and November 28, 1990, on which an agricultural commodity has not been planted.

19. Replacement Wetlands (RPW). Wetlands which are converted for purposes other than to increase production, where the wetland values are being replaced at a second site.

20. Good Faith Wetlands (GFW+year). Wetlands on which ASCS has determined a violation to be in good faith and the wetland has been restored.

21. Converted Wetlands (CW). Wetlands converted after December 23, 1985 and prior to November 28, 1990. In any year that an agricultural commodity is planted on these Converted Wetlands, you will be ineligible for USDA benefits.

22. Converted Wetland (CW+year). Wetlands converted after November 28, 1990. You will be ineligible for USDA program benefits until this wetland is restored.

23. Converted Wetland Non-Agricultural use (CWNA). Wetlands that are converted for trees, fish production, shrubs, cranberries, vineyards or building and road construction.

24. Converted Wetland Technical Error (CWTE). Wetlands that were converted as a result of incorrect determination by SCS.

25. The planned alteration measures on wetlands in fields \_\_\_\_\_ are considered maintenance and are in compliance with FSA.

26. The planned alteration measures on wetlands in fields \_\_\_\_\_ are not considered to be maintenance and if installed will cause the area to become a Converted Wetland (CW). See Item 22 for information on CW+year.

27. The wetland determination was completed in the office  field  and was delivered  attached  to the person on 11-15-91.

28. Remarks.

"Smaller streams are not delineated on the photo but may be FSA wetlands. Before initiating any action to alter any stream channel, check with SCS."

29. I certify that the above determination is correct and adequate for use in determining eligibility for USDA program benefits, and that wetland hydrology, hydric soils, and hydrophytic vegetation under normal circumstances exist on all areas outlined as Wetlands, Farmed Wetlands, and Farmed Wetlands Pasture.

30. Signature of SCS District Conservationist

Bruce Van Laere

31. Date

11-13-91

SCS-CPA-026  
(1/87)

1. NAME AND ADDRESS OF PRODUCER  
L. W. THOMPSON FARM CORP  
R 1 BOX 130  
CLINTON IA 52732

2. DATE OF REQUEST  
12/21/87

HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION

3. NAME OF USDA AGENCY OR PRODUCER REQUESTING DETERMINATION  
ASCS

4. FARM NO. AND TRACT NO. (S)  
222 3183

5. COUNTY  
CLINTON

SECTION I - HIGHLY ERODIBLE LAND

6. Is a soil survey now available for making a highly erodible land determination?

7. Are there highly erodible soil map units on this farm?

a. List highly erodible tract and fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.

b. Is an approved conservation plan being actively applied on all of these fields? If "no," list the tract and fields (from the ASCS records) on which a plan is not being applied.

9. a. List highly erodible tract and fields that, according to ASCS records, have been or will be converted for the production of agricultural commodities, were not used for this purpose in any crop year during 1981-1985, and were not enrolled in a USDA set-aside or diversion program.

b. Is an approved conservation system being used on these fields? If "no," list the tract and fields (from the ASCS records) on which a system is not being used.

10. Are there other fields or unnumbered areas that (1) have highly erodible map units, (2) were not used to produce an agricultural commodity in any crop year after 1980, and (3) were not enrolled in a USDA set-aside or diversion program in any crop year during 1981-1985?

11. CERTIFICATION: The \_\_\_\_\_ (no.) conservation plan(s) was (were) approved by the \_\_\_\_\_ Conservation District on \_\_\_\_\_ (no.), and conform with technical requirements of the SCS field office technical guide. Conservation systems included in the conservation plan(s) applied \_\_\_\_\_ (no.).

SECTION II - WETLAND

12. Are hydric soils on this farm? If "yes," list tract and fields (from the ASCS records) or unnumbered areas (un) in which they occur.

13. Do fields that were or will be used to produce an agricultural commodity contain wetland? If "yes," list tract and fields, outline the wetland areas within fields on the ASCS photograph(s), and mark with "w" for wetland; "aw" for artificial and irrigation-induced wetland; "tw" for wetland on which the conversion would result in minimal effect.

14. Are there converted wetlands on this farm that have been converted since December 23, 1985? If "yes," list the tract and fields, outline converted wetlands on the ASCS photograph(s), and mark with "cw."

15. The wetland determination was done in the office  field

16. This determination was hand delivered  mailed  to the producer on \_\_\_\_\_ (DATE)

Any producer who does not agree with this determination may request reconsideration from the person making this determination. This request is a prerequisite for any further appeal. The request must be in writing and must set forth reasons for the request. The request must be mailed or delivered within 15 days after written notice of the determination is mailed to or otherwise made available to the producer.

17. REMARKS

18. SIGNATURE OF SCS DISTRICT CONSERVATIONIST  
Bruce Van Jaarsveld

Assistance and programs of the Soil Conservation Service are available without regard to race, religion, color, sex, age, handicap, or national origin.

DATE  
5/4/88

Distribution: White--ASCS-FCIC Goldenrod--SCS copy Pink--Producer copy Yellow--FmHA

MARY JEANNE DODDS,

U.S.D.A.  
Soil Conservation Service

SCS-CPA-026  
(June 91)

1. Name and Address of Person  
JOHN E. THOMAS  
RR 1  
CAMANCHE IA 52730

2. Date of Request

11-13-91

3. County CLINTON

HIGHLY ERODIBLE LAND AND WETLAND  
CONSERVATION DETERMINATION

4. Name of USDA Agency or Person Requesting Determination FMHA

5. Farm No. and Tract No.  
3428

T2538

SECTION I - HIGHLY ERODIBLE LAND

	FIELD NO.(s)	TOTAL ACRES
6. Is soil survey now available for making a highly erodible land determination? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
7. Are there highly erodible soil map units on this farm? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
8. List highly erodible fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.	NONE	-0-
9. List highly erodible fields that have been or will be converted for the production of agricultural commodities and, according to ASCS records, were not used for this purpose in any crop year during 1981-1985; and were not enrolled in a USDA set-aside or diversion program.	NONE	-0-
10. This Highly Erodible Land determination was completed in the: Office <input checked="" type="checkbox"/> Field <input type="checkbox"/>		

SECTION II - WETLAND

	FIELD NO.(s)	TOTAL ACRES
11. Are there hydric soils on this farm? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
12. Wetlands (W), including abandoned wetlands, or Farmed Wetlands (FW) or Farmed Wetlands Pasture (FWP). Wetlands may be farmed under natural conditions. Farmed Wetlands and Farmed Wetlands Pasture may be farmed and maintained in the same manner as they were prior to December 23, 1985, as long as they are not abandoned.	NONE	-0-
13. Prior Converted Cropland (PC). Wetlands that were converted prior to December 23, 1985. The use, management, drainage, and alteration of prior converted cropland (PC) are not subject to the wetland conservation provisions unless the area reverts to wetland as a result of abandonment.		
14. Artificial Wetlands (AW). Artificial wetlands includes irrigation-induced wetlands. These wetlands are not subject to the wetland conservation provisions.		
15. Minimal Effect Wetlands (MW). These wetlands are to be farmed according to the minimal-effect agreement signed at the time the minimal-effect determination was made.		
16. Mitigation Wetlands (MIW). Wetlands on which a person is actively mitigating a frequently cropped area or a wetland converted between December 23, 1985 and November 28, 1990.		
17. Restoration with Violation (RVW+year). A restored wetland that was in violation as a result of conversion after November 28, 1990, or the planting of an agricultural commodity or forage crop.		
18. Restoration without Violation (RSW). A restored wetland converted between December 23, 1985 and November 28, 1990, on which an agricultural commodity has not been planted.		
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22. Converted Wetland (CW+year). Wetlands converted after November 28, 1990. You will be ineligible for USDA program benefits until this wetland is restored.		
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24. Converted Wetland Technical Error (CWTE). Wetlands that were converted as a result of incorrect determination by SCS.		
25. The planned alteration measures on wetlands in fields _____ are considered maintenance and are in compliance with FSA.		
26. The planned alteration measures on wetlands in fields _____ are not considered to be maintenance and if installed will cause the area to become a Converted Wetland (CW). See item 22 for information on CW+year.		
27. The wetland determination was completed in the office <input type="checkbox"/> field <input checked="" type="checkbox"/> and was delivered <input type="checkbox"/> mailed <input checked="" type="checkbox"/> to the person on 11-15-91		

28. Remarks. "Smaller streams are not delineated on the attached photo but may be FSA wetlands. Before initiating any action to alter any stream channel, check with SCS."

29. I certify that the above determination is correct and adequate for use in determining eligibility for USDA program benefits, and that wetland hydrology, hydric soils, and hydrophytic vegetation under normal circumstances exist on all areas outlined as Wetlands, Farmed Wetlands, and Farmed Wetlands Pasture.

30. Signature of SCS District Conservationist  
Bruce Van Laar

31. Date

11-13-91

SCS-CPA-026 (1/87)

2. DATE OF REQUEST

NAME AND ADDRESS OF PRODUCER  
L. W. THOMPSON FARM CORP  
R 1 BOX 130  
CLINTON IA 52732

12/21/87

**HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION**

3. NAME OF USDA AGENCY OR PRODUCER REQUESTING DETERMINATION

ASCS  
4. FARM NO. AND TRACT NO. (S)  
222 2538

5. COUNTY  
CLINTON

**SECTION I - HIGHLY ERODIBLE LAND**

6. Is a soil survey now available for making a highly erodible land determination?

7. Are there highly erodible soil map units on this farm?

8. a. List highly erodible tract and fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.

b. Is an approved conservation plan being actively applied on all of these fields? If "yes," list the tract and fields (from the ASCS records) on which a plan is not being applied.

9. a. List highly erodible tract and fields that, according to ASCS records, have been or will be converted for the production of agricultural commodities, were not used for this purpose in any crop year during 1981-1985, and were not enrolled in a USDA set-aside or diversion program.

b. Is an approved conservation system being used on these fields? If "no," list the tract and fields (from the ASCS records) on which a system is not being used.

10. Are there other fields or unnumbered areas that (1) have highly erodible map units, (2) were not used to produce an agricultural commodity in any crop year after 1980, and (3) were not enrolled in a USDA set-aside or diversion program in any crop year during 1981-1985?

11. CERTIFICATION: The \_\_\_\_\_ (no.) conservation plan(s) was (were) approved by the \_\_\_\_\_ Conservation District on \_\_\_\_\_, \_\_\_\_\_, and conform with technical requirements of the SCS field office technical guide. Conservation systems included in the conservation plan(s) applied \_\_\_\_\_ (no.).

**SECTION II - WETLAND**

12. Are hydric soils on this farm? If "yes," list tract and fields (from the ASCS records) or unnumbered areas (un) in which they occur.

13. Do fields that were or will be used to produce an agricultural commodity contain wetland? If "yes," list tract and fields, outline the wetland areas within fields on the ASCS photograph(s), and mark with "w" for wetland; "aw" for artificial and irrigation induced wetland; "mww" for wetland on which the conversion would result in minimal effect.

14. Are there converted wetlands on this farm that have been converted since December 23, 1985? If "yes," list the tract and fields, outline converted wetlands on the ASCS photograph(s), and mark with "cw."

15. The wetland determination was done in the office  field

16. This determination was hand delivered  mailed  to the producer on \_\_\_\_\_ (DATE)

Any producer who does not agree with this determination may request reconsideration from the person making this determination. This request is a prerequisite for any further appeal. The request must be in writing and must set forth reasons for the request. The request must be mailed or delivered within 15 days after written notice of the determination is mailed to or otherwise made available to the producer.

17. REMARKS

18. SIGNATURE OF SCS DISTRICT CONSERVATIONIST

*Bruce Van Laere / O.K.*

Assistance and programs of the Soil Conservation Service are available without regard to race, religion, color, sex, age, handicap, or national origin.

DATE

5/4/88

Distribution: White--ASCS-FCIG Goldenrod--SCS copy Pink--Producer copy Yellow--FmHA

FIELD DETERMINATION  
HIGHLY ERODIBLE LAND

Owner Mrs. Charles Dunn  
Operator L. W. Thompson Farm Corp.  
County CLINTON  
Date 4/28/88

Total Acres \_\_\_\_\_  
Cropland Acres 157.3  
ASCS Farm No. 222  
Prepared by ML

Tract No.	Field No.	Acres	SMU	Acres	Highly Erodible		NHEL-SMU Acres Total Acres	Field Designation	Remarks
					Yes	No			
T 3184 (Sec. 23)	1	17.7						NHEL	HS
	2	22.4						NHEL	HS
	3	39.3						NHEL	HS
	(Sec. 24)	4	40.2					NHEL	HS
	5	37.7						NHEL	HS
		157.3							
NHEL PRESENT - NO Affect									

FIELD DETERMINATION  
HIGHLY ERODIBLE LAND

Owner Lyle Schaw  
Operator \_\_\_\_\_  
County CLINTON  
Date 5/4/88

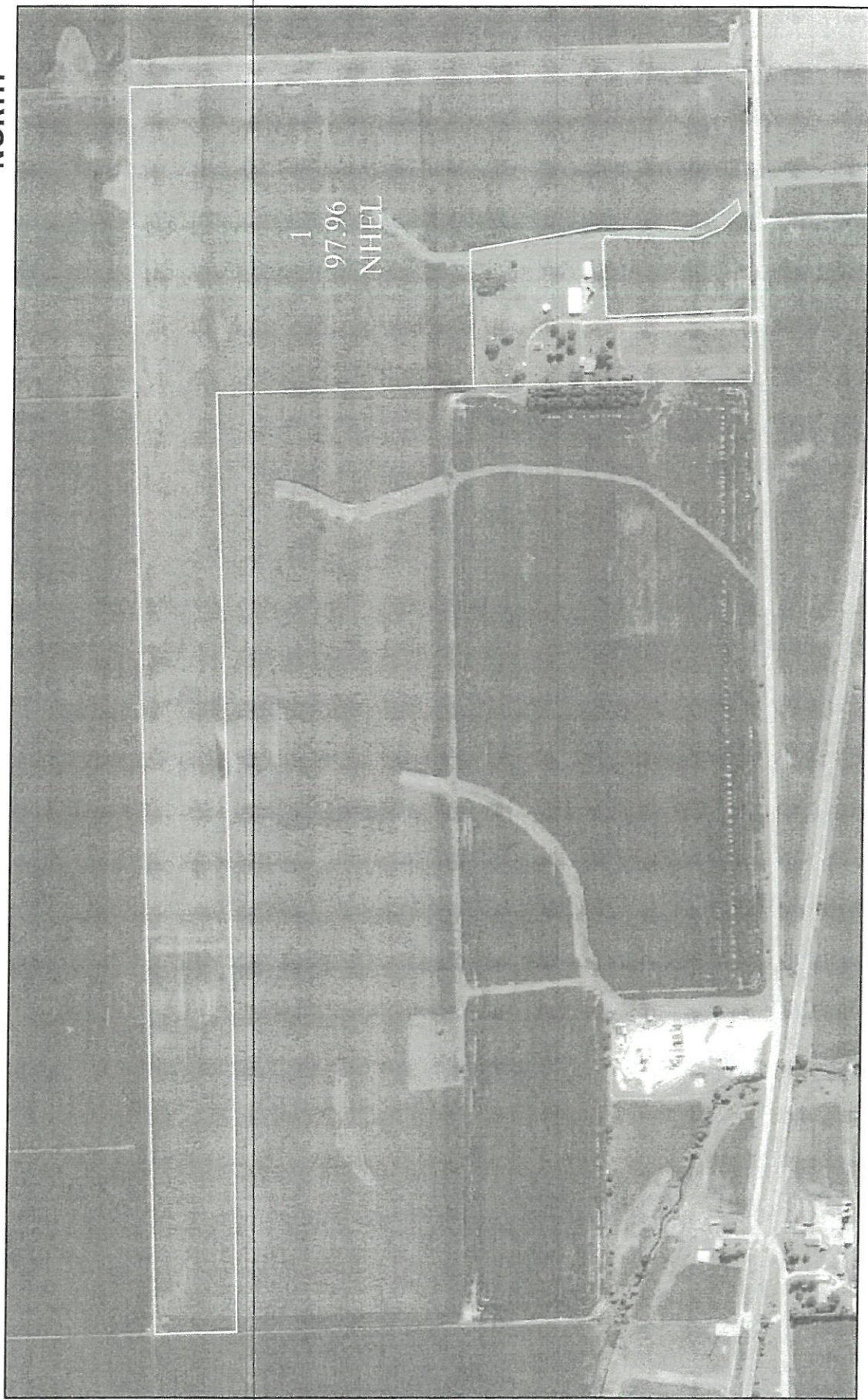
Total Acres \_\_\_\_\_  
Cropland Acres 68  
ASCS Farm No. \_\_\_\_\_  
Prepared by Darcy Kei

Tract No.	Field No.	Acres	SMU	Acres	Highly Erodible		HEL-SMU Acres Total Acres	Field Designation	Remarks
					Yes	No			
T3183-1		39.4				✓		NHEL	H.S.
T3183-2		10.0				✓		NHEL	
T3183-3		3.3				✓		NHEL	
T3183-4		14.8				✓		NHEL	H.S.
DHEL-PRESENT NO AFFECT									



Farm# 7040  
Tract# 12688

Sec: 23  
Township: Camanche

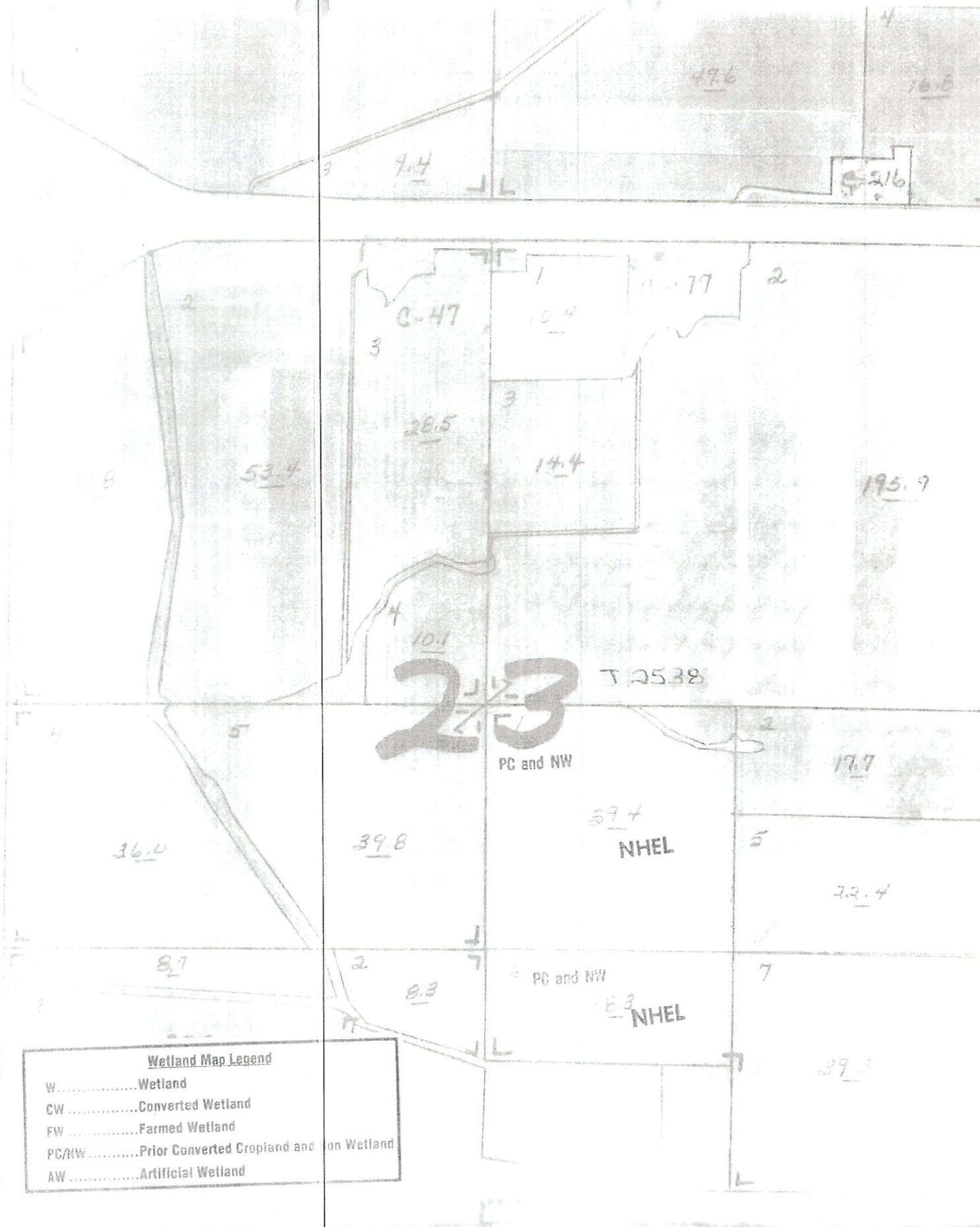


1 inch equals 582.913367 feet  
April 01, 2010

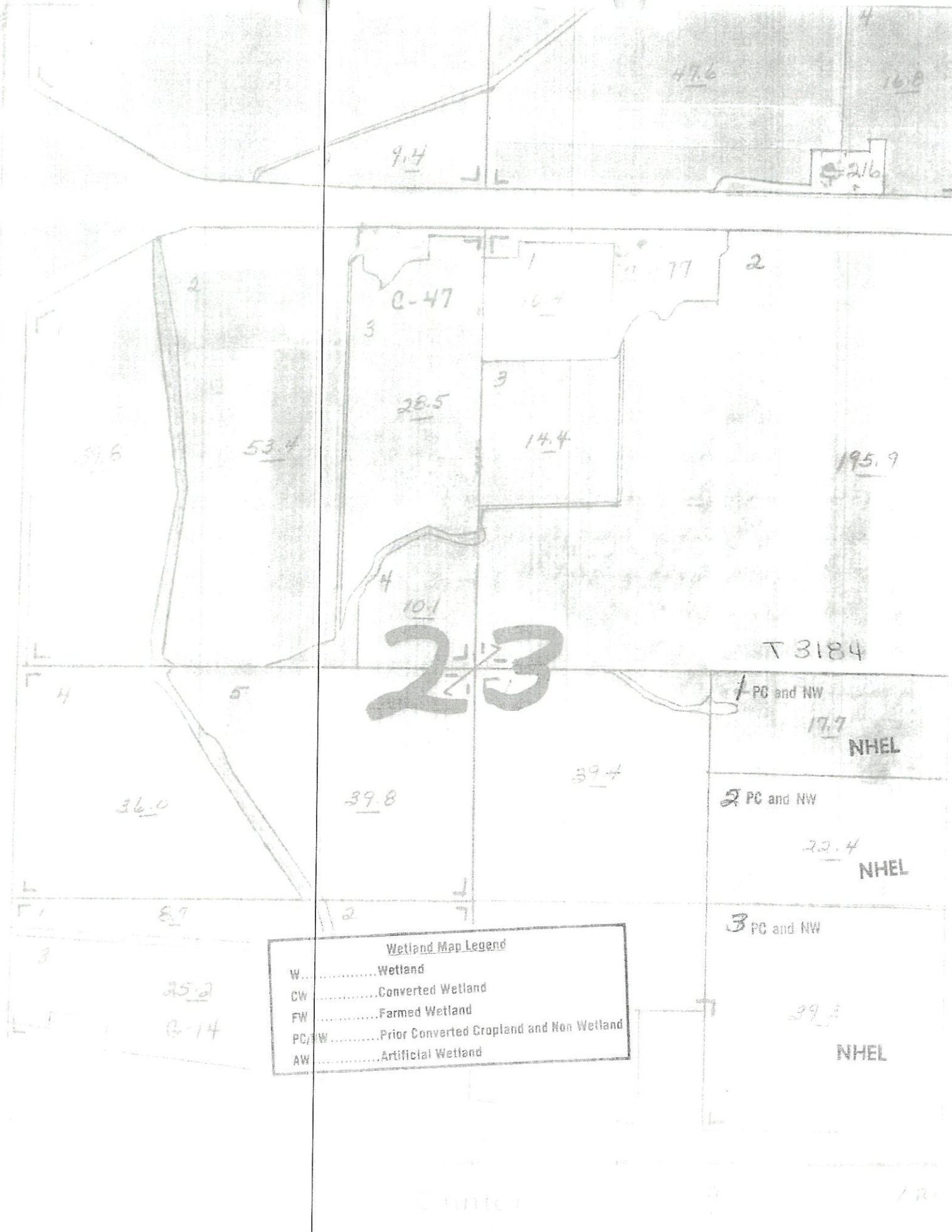


Disclaimer: Wetland identifiers do not represent the size, shape of specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations or contact NRCS.  
*T 18204 = T 12688 & T 12689*

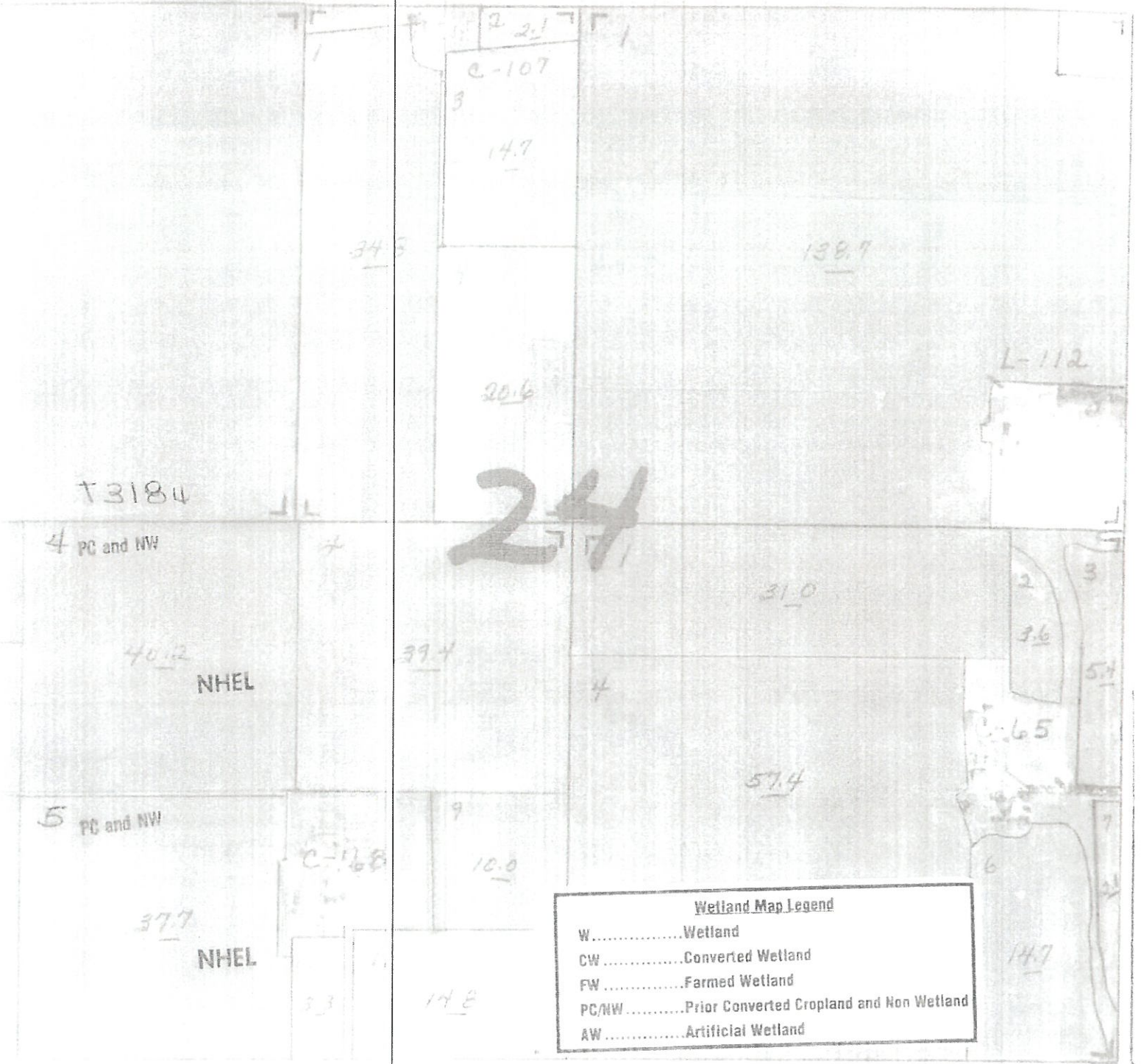
- Legend
- Wetland Determination
- Restricted Use
  - ▽ Limited Restrictions
  - Exempt from Conservation Compliance Provisions
  - Field Boundary
- Wetland Determination Identifiers
- Restricted Use
  - ▽ Limited Restrictions
  - Exempt from Conservation Compliance Provisions
- 3-21-11



Wetland Map Legend	
W	Wetland
CW	Converted Wetland
FW	Farmed Wetland
PC/NW	Prior Converted Cropland and Non Wetland
AW	Artificial Wetland



Wetland Map Legend	
W.....	Wetland
CW.....	Converted Wetland
FW.....	Farmed Wetland
PC/NW.....	Prior Converted Cropland and Non Wetland
AW.....	Artificial Wetland



Wetland Map Legend	
W.....	Wetland
CW.....	Converted Wetland
FW.....	Farmed Wetland
PC/NW.....	Prior Converted Cropland and Non Wetland
AW.....	Artificial Wetland





JESSIE DUNN, OW

U.S.D.A.  
Soil Conservation Service

SCS-CPA-026  
(June 91)

1. Name and Address of Person

JOHN E. THOMAS  
RR 1  
CAMANCHE IA 52730

2. Date of Request

11-13-91

3. County

CLINTON

**HIGHLY ERODIBLE LAND AND WETLAND  
CONSERVATION DETERMINATION**

4. Name of USDA Agency or Person Requesting Determination

FMHA

5. Farm No. and Tract No.

3428

T3184

**SECTION I - HIGHLY ERODIBLE LAND**

	FIELD NO.(s)	TOTAL ACRES
6. Is soil survey now available for making a highly erodible land determination? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
7. Are there highly erodible soil map units on this farm? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
8. List highly erodible fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.	NONE	-0-
9. List highly erodible fields that have been or will be converted for the production of agricultural commodities and, according to ASCS records, were not used for this purpose in any crop year during 1981-1985; and were not enrolled in a USDA set-aside or diversion program.	NONE	-0-
10. This Highly Erodible Land determination was completed in the: Office <input checked="" type="checkbox"/> Field <input type="checkbox"/>		

**SECTION II - WETLAND**

	FIELD NO.(s)	TOTAL ACRES
11. Are there hydric soils on this farm? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
12. Wetlands (W), including abandoned wetlands, or Farmed Wetlands (FW) or Farmed Wetlands Pasture (FWP). Wetlands may be farmed under natural conditions. Farmed Wetlands and Farmed Wetlands Pasture may be farmed and maintained in the same manner as they were prior to December 23, 1985, as long as they are not abandoned.	NONE	-0-
13. Prior Converted Cropland (PC). Wetlands that were converted prior to December 23, 1985. The use, management, drainage, and alteration of prior converted cropland (PC) are not subject to the wetland conservation provisions unless the area reverts to wetland as a result of abandonment.	1	1.2
14. Artificial Wetlands (AW). Artificial wetlands includes irrigation-induced wetlands. These wetlands are not subject to the wetland conservation provisions.	NONE	-0-
15. Minimal Effect Wetlands (MW). These wetlands are to be farmed according to the minimal-effect agreement signed at the time the minimal-effect determination was made.		
16. Mitigation Wetlands (MIW). Wetlands on which a person is actively mitigating a frequently cropped area or a wetland converted between December 23, 1985 and November 28, 1990.		
17. Restoration with Violation (RWV+year). A restored wetland that was in violation as a result of conversion after November 28, 1990, or the planting of an agricultural commodity or forage crop.		
18. Restoration without Violation (RSW). A restored wetland converted between December 23, 1985 and November 28, 1990, on which an agricultural commodity has not been planted.		
19. Replacement Wetlands (RPW). Wetlands which are converted for purposes other than to increase production, where the wetland values are being replaced at a second site.		
20. Good Faith Wetlands (GFW+year). Wetlands on which ASCS has determined a violation to be in good faith and the wetland has been restored.		
21. Converted Wetlands (CW). Wetlands converted after December 23, 1985 and prior to November 28, 1990. In any year that an agricultural commodity is planted on these Converted Wetlands, you will be ineligible for USDA benefits.		
22. Converted Wetland (CW+year). Wetlands converted after November 28, 1990. You will be ineligible for USDA program benefits until this wetland is restored.		
23. Converted Wetland Non-Agricultural use (CWNA). Wetlands that are converted for trees, fish production, shrubs, cranberries, vineyards or building and road construction.		
24. Converted Wetland Technical Error (CWTE). Wetlands that were converted as a result of incorrect determination by SCS.		
25. The planned alteration measures on wetlands in fields _____ are considered maintenance and are in compliance with FSA.		
26. The planned alteration measures on wetlands in fields _____ are not considered to be maintenance and if installed will cause the area to become a Converted Wetland (CW). See item 22 for information on CW+year.		
27. The wetland determination was completed in the office <input checked="" type="checkbox"/> field <input type="checkbox"/> and was delivered <input type="checkbox"/> mailed <input checked="" type="checkbox"/> to the person on 11-15-91		

28. Remarks..

"Smaller streams are not delineated on the attached photo but may be FSA wetlands. Before initiating any action to alter any stream channel, check with SCS."

29. I certify that the above determination is correct and adequate for use in determining eligibility for USDA program benefits, and that wetland hydrology, hydric soils, and hydrophytic vegetation under normal circumstances exist on all areas outlined as Wetlands, Farmed Wetlands, and Farmed Wetlands Pasture.

30. Signature of SCS District Conservationist

Bruce Van Laine

31. Date

11-13-91

HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION

12/21/87

3. NAME OF USDA AGENCY OR PRODUCER REQUESTING DETERMINATION: ASCS

4. FARM NO. AND TRACT NO. (S): 222 3184

5. COUNTY: CLINTON

SECTION I - HIGHLY ERODIBLE LAND

	4. FARM NO. AND TRACT NO. (S)		FIELD NO.(S)	TOTAL ACRES
	YES	NO		
6. Is a soil survey now available for making a highly erodible land determination?	<input checked="" type="checkbox"/>			
7. Are there highly erodible soil map units on this farm?	<input checked="" type="checkbox"/>			
8. a. List highly erodible tract and fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.		None		
b. Is an approved conservation plan being actively applied on all of these fields? If "no," list the tract and fields (from the ASCS records) on which a plan is not being applied.		N/A		
9. a. List highly erodible tract and fields that, according to ASCS records, have been or will be converted for the production of agricultural commodities, were not used for this purpose in any crop year during 1981-1985, and were not enrolled in a USDA set-aside or diversion program.		None		
b. Is an approved conservation system being used on these fields? If "no," list the tract and fields (from the ASCS records) on which a system is not being used.		N/A		
10. Are there other fields or unnumbered areas that (1) have highly erodible map units, (2) were not used to produce an agricultural commodity in any crop year after 1980, and (3) were not enrolled in a USDA set-aside or diversion program in any crop year during 1981-1985?				

11. CERTIFICATION: The \_\_\_\_\_ (no.) conservation plan(s) was (were) approved by the \_\_\_\_\_ Conservation District on \_\_\_\_\_, 19\_\_\_\_, and conform with technical requirements of the SCS field office technical guide. Conservation systems included in the conservation plan(s) applied \_\_\_\_\_ (no.).

SECTION II - WETLAND

	4. FARM NO. AND TRACT NO. (S)		FIELD NO.(S)	TOTAL ACRES
	YES	NO		
12. Are hydric soils on this farm? If "yes," list tract and fields (from the ASCS records) or unnumbered areas (un) in which they occur.	<input checked="" type="checkbox"/>		T3184 1, 2, 3, 4, 5	
13. Do fields that were or will be used to produce an agricultural commodity contain wetland? If "yes," list tract and fields, outline the wetland areas within fields on the ASCS photograph(s), and mark with "w" for wetland; "aw" for artificial and irrigation induced wetland; "mw" for wetland on which the conversion would result in minimal effect.				
14. Are there converted wetlands on this farm that have been converted since December 23, 1985? If "yes," list the tract and fields, outline converted wetlands on the ASCS photograph(s), and mark with "cw".				
15. The wetland determination was done in the office <input type="checkbox"/> field <input type="checkbox"/> .				

16. This determination was hand delivered  mailed  to the producer on \_\_\_\_\_ (DATE). Any producer who does not agree with this determination may request reconsideration from the person making this determination. This request is a prerequisite for any further appeal. The request must be in writing and must set forth reasons for the request. The request must be mailed or delivered within 15 days after written notice of the determination is mailed to or otherwise made available to the producer.

17. REMARKS

18. SIGNATURE OF SCS DISTRICT CONSERVATIONIST: *Dorice Van Dyke*

DATE: 4/28/88

MARY JEANNE DODDS, C

U.S.D.A. Soil Conservation Service  <b>HIGHLY ERODIBLE LAND AND WETLAND          CONSERVATION DETERMINATION</b>	SCS-CPA-026 (June 91)	1. Name and Address of Person  JOHN E. THOMAS RR 1 CAMANCHE IA 52730	2. Date of Request 11-13-91 3. County CLINTON
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4. Name of USDA Agency or Person Requesting Determination FMHA	5. Farm No. and Tract No. 3428 T3183
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SECTION I - HIGHLY ERODIBLE LAND

	FIELD NO.(s)	TOTAL ACRES
6. Is soil survey now available for making a highly erodible land determination? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
7. Are there highly erodible soil map units on this farm? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
8. List highly erodible fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.	NONE	-0-
9. List highly erodible fields that have been or will be converted for the production of agricultural commodities and, according to ASCS records, were not used for this purpose in any crop year during 1981-1985; and were not enrolled in a USDA set-aside or diversion program.	NONE	-0-
10. This Highly Erodible Land determination was completed in the: Office <input checked="" type="checkbox"/> Field <input type="checkbox"/>		

SECTION II - WETLAND

	FIELD NO.(s)	TOTAL ACRES
11. Are there hydric soils on this farm? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
12. Wetlands (W), including abandoned wetlands, or Farmed Wetlands (FW) or Farmed Wetlands Pasture (FWP). Wetlands may be farmed under natural conditions. Farmed Wetlands and Farmed Wetlands Pasture may be farmed and maintained in the same manner as they were prior to December 23, 1985, as long as they are not abandoned.	NONE	-0-
13. Prior Converted Cropland (PC). Wetlands that were converted prior to December 23, 1985. The use, management, drainage, and alteration of prior converted cropland (PC) are not subject to the wetland conservation provisions unless the area reverts to wetland as a result of abandonment.	1	0.6
14. Artificial Wetlands (AW). Artificial wetlands includes irrigation-induced wetlands. These wetlands are not subject to the wetland conservation provisions.	NONE	-0-
15. Minimal Effect Wetlands (MW). These wetlands are to be farmed according to the minimal-effect agreement signed at the time the minimal-effect determination was made.		
16. Mitigation Wetlands (MIW). Wetlands on which a person is actively mitigating a frequently cropped area or a wetland converted between December 23, 1985 and November 28, 1990.		
17. Restoration with Violation (RVW+year). A restored wetland that was in violation as a result of conversion after November 28, 1990, or the planting of an agricultural commodity or forage crop.		
18. Restoration without Violation (RSW). A restored wetland converted between December 23, 1985 and November 28, 1990, on which an agricultural commodity has not been planted.		
19. Replacement Wetlands (RPW). Wetlands which are converted for purposes other than to increase production, where the wetland values are being replaced at a second site.		
20. Good Faith Wetlands (GFW+year). Wetlands on which ASCS has determined a violation to be in good faith and the wetland has been restored.		
21. Converted Wetlands (CW). Wetlands converted after December 23, 1985 and prior to November 28, 1990. In any year that an agricultural commodity is planted on these Converted Wetlands, you will be ineligible for USDA benefits.		
22. Converted Wetland (CW+year). Wetlands converted after November 28, 1990. You will be ineligible for USDA program benefits until this wetland is restored.		
23. Converted Wetland Non-Agricultural use (CWNA). Wetlands that are converted for trees, fish production, shrubs, cranberries, vineyards or building and road construction.		
24. Converted Wetland Technical Error (CWTE). Wetlands that were converted as a result of incorrect determination by SCS.		
25. The planned alteration measures on wetlands in fields _____ are considered maintenance and are in compliance with FSA.		
26. The planned alteration measures on wetlands in fields _____ are not considered to be maintenance and if installed will cause the area to become a Converted Wetland (CW). See item 22 for information on CW+year.		
27. The wetland determination was completed in the office <input checked="" type="checkbox"/> field <input type="checkbox"/> and was delivered <input checked="" type="checkbox"/> attached <input type="checkbox"/> mailed <input type="checkbox"/> to the person on 11-15-91.		

28. Remarks: "Smaller streams are not deemed photo but may be FSA wetlands. Before initiating any action to alter any stream channel, check with SCS."

29. I certify that the above determination is correct and adequate for use in determining eligibility for USDA program benefits, and that wetland hydrology, hydric soils, and hydrophytic vegetation under normal circumstances exist on all areas outlined as Wetlands, Farmed Wetlands, and Farmed Wetlands Pasture.	30. Signature of SCS District Conservationist Bruce Van Laerie	31. Date 11-13-91
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UNITED STATES DEPARTMENT OF AGRICULTURE  
Soil Conservation Service

SCS-CPA-026  
(1/87)

HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION

1. NAME AND ADDRESS OF PRODUCER  
L. W. THOMPSON FARM CORP  
R 1 BOX 130  
CLINTON IA 52732

2. DATE OF REQUEST  
12/21/87

3. NAME OF USDA AGENCY OR PRODUCER REQUESTING DETERMINATION  
ASCS

4. FARM NO. AND TRACT NO. (S)  
222 3183

5. COUNTY  
CLINTON

SECTION I - HIGHLY ERODIBLE LAND

	6. Is a soil survey now available for making a highly erodible land determination?		YES	NO	TRACT NO.	FIELD NO.(S)	TOTAL ACRES
	YES	NO					
7. Are there highly erodible soil map units on this farm?	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
8. a. List highly erodible tract and fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.					none		
b. Is an approved conservation plan being actively applied on all of these fields? If "no," list the tract and fields (from the ASCS records) on which a plan is not being applied.					N/A		
9. a. List highly erodible tract and fields that, according to ASCS records, have been or will be converted for the production of agricultural commodities, were not used for this purpose in any crop year during 1981-1985, and were not enrolled in a USDA set-aside or diversion program.					none		
b. Is an approved conservation system being used on these fields? If "no," list the tract and fields (from the ASCS records) on which a system is not being used.					N/A		
10. Are there other fields or unnumbered areas that (1) have highly erodible map units, (2) were not used to produce an agricultural commodity in any crop year after 1980, and (3) were not enrolled in a USDA set-aside or diversion program in any crop year during 1981-1985?							

11. CERTIFICATION: The \_\_\_\_\_ (no.) conservation plan(s) was (were) approved by the \_\_\_\_\_ Conservation District on \_\_\_\_\_, and conform with technical requirements of the SCS field office technical guide. Conservation systems included in the conservation plan(s) applied \_\_\_\_\_ (no.).

SECTION II - WETLAND

	12. Are hydric soils on this farm? If "yes," list tract and fields (from the ASCS records) or unnumbered areas (un) in which they occur.		YES	NO	TRACT NO.	FIELD NO.(S)	TOTAL ACRES
	YES	NO					
12. Are hydric soils on this farm? If "yes," list tract and fields (from the ASCS records) or unnumbered areas (un) in which they occur.	<input checked="" type="checkbox"/>	<input type="checkbox"/>			73183	1 4	
13. Do fields that were or will be used to produce an agricultural commodity contain wetland? If "yes," list tract and fields, outlining the wetland areas within fields on the ASCS photograph(s), and mark with "w" for wetland; "aw" for artificial and irrigation induced wetland; "mw" for wetland on which the conversion would result in minimal effect.							
14. Are there converted wetlands on this farm that have been converted since December 23, 1985? If "yes," list the tract and fields, outline converted wetlands on the ASCS photograph(s), and mark with "cw".							
15. The wetland determination was done in the office <input type="checkbox"/> field <input type="checkbox"/> .							

16. This determination was hand delivered  mailed  to the producer on \_\_\_\_\_ (DATE)

Any producer who does not agree with this determination may request reconsideration from the person making this determination. This request is a prerequisite for any further appeal. The request must be in writing and must set forth reasons for the request. The request must be mailed or delivered within 15 days after written notice of the determination is mailed to or otherwise made available to the producer.

17. REMARKS

18. SIGNATURE OF SCS DISTRICT CONSERVATIONIST  
*Bruce Van Doren*

DATE  
5/4/88

MARY JEANNE DODDS,

U.S.D.A.  
Soil Conservation Service

SCS-CPA-026  
(June 91)

1. Name and Address of Person  
JOHN E. THOMAS  
RR 1  
CAMANCHE IA 52730

2. Date of Request

11-13-91

3. County CLINTON

HIGHLY ERODIBLE LAND AND WETLAND  
CONSERVATION DETERMINATION

4. Name of USDA Agency or Person Requesting Determination

FMHA

5. Farm No. and Tract No.  
3428

T2538

SECTION I - HIGHLY ERODIBLE LAND

	FIELD NO.(s)	TOTAL ACRES
6. Is soil survey now available for making a highly erodible land determination? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
7. Are there highly erodible soil map units on this farm? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
8. List highly erodible fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.	NONE	-0-
9. List highly erodible fields that have been or will be converted for the production of agricultural commodities and, according to ASCS records, were not used for this purpose in any crop year during 1981-1985; and were not enrolled in a USDA set-aside or diversion program.	NONE	-0-
10. This Highly Erodible Land determination was completed in the: Office <input type="checkbox"/> Field <input checked="" type="checkbox"/>		

SECTION II - WETLAND

	FIELD NO.(s)	TOTAL ACRES
11. Are there hydric soils on this farm? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
12. Wetlands (W), including abandoned wetlands, or Farmed Wetlands (FW) or Farmed Wetlands Pasture (FWP). Wetlands may be farmed under natural conditions. Farmed Wetlands and Farmed Wetlands Pasture may be farmed and maintained in the same manner as they were prior to December 23, 1985, as long as they are not abandoned.	NONE	-0-
13. Prior Converted Cropland (PC). Wetlands that were converted prior to December 23, 1985. The use, management, drainage, and alteration of prior converted cropland (PC) are not subject to the wetland conservation provisions unless the area reverts to wetland as a result of abandonment.		
14. Artificial Wetlands (AW). Artificial wetlands includes irrigation-induced wetlands. These wetlands are not subject to the wetland conservation provisions.		
15. Minimal Effect Wetlands (MW). These wetlands are to be farmed according to the minimal-effect agreement signed at the time the minimal-effect determination was made.		
16. Mitigation Wetlands (MIW). Wetlands on which a person is actively mitigating a frequently cropped area or a wetland converted between December 23, 1985 and November 28, 1990.		
17. Restoration with Violation (RVW+year). A restored wetland that was in violation as a result of conversion after November 28, 1990, or the planting of an agricultural commodity or forage crop.		
18. Restoration without Violation (RSW). A restored wetland converted between December 23, 1985 and November 28, 1990, on which an agricultural commodity has not been planted.		
19. Replacement Wetlands (RPW). Wetlands which are converted for purposes other than to increase production, where the wetland values are being replaced at a second site.		
20. Good Faith Wetlands (GFW+year). Wetlands on which ASCS has determined a violation to be in good faith and the wetland has been restored.		
21. Converted Wetlands (CW). Wetlands converted after December 23, 1985 and prior to November 28, 1990. In any year that an agricultural commodity is planted on these Converted Wetlands, you will be ineligible for USDA benefits.		
22. Converted Wetland (CW+year). Wetlands converted after November 28, 1990. You will be ineligible for USDA program benefits until this wetland is restored.		
23. Converted Wetland Non-Agricultural use (CWNA). Wetlands that are converted for trees, fish production, shrubs, cranberries, vineyards or building and road construction.		
24. Converted Wetland Technical Error (CWTE). Wetlands that were converted as a result of incorrect determination by SCS.		
25. The planned alteration measures on wetlands in fields _____ are considered maintenance and are in compliance with FSA.		
26. The planned alteration measures on wetlands in fields _____ are not considered to be maintenance and if installed will cause the area to become a Converted Wetland (CW). See item 22 for information on CW+year.		
27. The wetland determination was completed in the office <input type="checkbox"/> field <input checked="" type="checkbox"/> and was delivered <input type="checkbox"/> mailed <input checked="" type="checkbox"/> to the person on 11-15-91		

28. Remarks... "Smaller streams are not delineated on the attached photo but may be FSA wetlands. Before initiating any action to alter any stream channel, check with SCS."

29. I certify that the above determination is correct and adequate for use in determining eligibility for USDA program benefits, and that wetland hydrology, hydric soils, and hydrophytic vegetation under normal circumstances exist on all areas outlined as Wetlands, Farmed Wetlands, and Farmed Wetlands Pasture.  
30. Signature of SCS District Conservationist Bruce Van Laere  
31. Date 11-13-91

SCS-CPA-026  
(1/87)

2. DATE OF REQUEST

HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION

1. NAME AND ADDRESS OF PRODUCER  
L. W. THOMPSON FARM CORP  
R 1 BOX 130  
CLINTON IA 52732

12/21/87

3. NAME OF USDA AGENCY OR PRODUCER REQUESTING DETERMINATION

4. FARM NO. AND TRACT NO. (S)  
ASCS 222 2538

5. COUNTY

CLINTON

SECTION I - HIGHLY ERODIBLE LAND

	YES		TRACT NO.	FIELD NO.(S)	TOTAL ACRES
	YES	NO			
6. Is a soil survey now available for making a highly erodible land determination?	<input checked="" type="checkbox"/>				
7. Are there highly erodible soil map units on this farm?	<input checked="" type="checkbox"/>				
8. a. List highly erodible tract and fields that, according to ASCS records, were used to produce an agricultural commodity in any crop year during 1981-1985.			none		
b. Is an approved conservation plan being actively applied on all of these fields? If "no," list the tract and fields (from the ASCS records) on which a plan is not being applied.			N/A		
9. a. List highly erodible tract and fields that, according to ASCS records, have been or will be converted for the production of agricultural commodities, were not used for this purpose in any crop year during 1981-1985, and were not enrolled in a USDA set-aside or diversion program.			none		
b. Is an approved conservation system being used on these fields? If "no," list the tract and fields (from the ASCS records) on which a system is not being used			N/A		
10. Are there other fields or unnumbered areas that (1) have highly erodible map units, (2) were not used to produce an agricultural commodity in any crop year after 1980, and (3) were not enrolled in a USDA set-aside or diversion program in any crop year during 1981-1985?					

11. CERTIFICATION: The \_\_\_\_\_ (no.) conservation plan(s) was (were) approved by the \_\_\_\_\_ Conservation District on \_\_\_\_\_ and conform with technical requirements of the SCS field office technical guide. Conservation systems included in the conservation plan(s) applied \_\_\_\_\_ (no.).

SECTION II - WETLAND

	YES		TRACT NO.	FIELD NO.(S)	TOTAL ACRES
	YES	NO			
12. Are hydric soils on this farm? If "yes," list tract and fields (from the ASCS records) or unnumbered areas (un) in which they occur.	<input checked="" type="checkbox"/>		T 2538	2	
13. Do fields that were or will be used to produce an agricultural commodity contain wetland? If "yes," list tract and fields, outline the wetland areas within fields on the ASCS photograph(s), and mark with "w" for wetland; "aw" for artificial and irrigation induced wetland; "mw" for wetland on which the conversion would result in minimal effect.					
14. Are there converted wetlands on this farm that have been converted since December 23, 1985? If "yes," list the tract and fields, outline converted wetlands on the ASCS photograph(s), and mark with "cw".					
15. The wetland determination was done in the office <input type="checkbox"/> field <input type="checkbox"/> .					
16. This determination was hand delivered <input type="checkbox"/> mailed <input type="checkbox"/> to the producer on _____ (DATE)					

Any producer who does not agree with this determination may request reconsideration from the person making this determination. This request is a prerequisite for any further appeal. The request must be in writing and must set forth reasons for the request. The request must be mailed or delivered within 15 days after written notice of the determination is mailed to or otherwise made available to the producer.

17. REMARKS

18. SIGNATURE OF SCS DISTRICT CONSERVATIONIST

DATE

5/4/88

Assistance and programs of the Soil Conservation Service are available without regard to race, religion, color, sex, age, handicap, or national origin.

Distribution: White--ASCS-FCIC Goldenrod--SCS copy Pink--Producer copy Yellow--FmHA

FIELD DETERMINATION  
HIGHLY ERODIBLE LAND

Owner Mrs. Charles Dunn  
Operator L.W. Thompson Farm Corp.  
County CLINTON  
Date 4/28/88

Total Acres \_\_\_\_\_  
Cropland Acres 157.3  
ASCS Farm No. 222  
Prepared by ML

Tract No.	Field No.	Acres	SMU	Highly Erodible		NHEL-SMU Acres Total Acres	Field Designation	Remarks
				Yes	No			
T3184								
(Sec. 23)	1	17.7					NHEL	HS
	2	22.4					NHEL	HS
	3	39.3					NHEL	HS
(Sec. 24)	4	40.2					NHEL	HS
	5	37.7					NHEL	HS
		157.3						
PHEL PRESENT-NO AFFECT								

FIELD DETERMINATION  
HIGHLY ERODIBLE LAND

Owner Lyle Schaw  
Operator \_\_\_\_\_  
County CLINTON  
Date 5/4/88

Total Acres \_\_\_\_\_  
Cropland Acres 68  
ASCS Farm No. \_\_\_\_\_  
Prepared by Darcy Keil

Tract No.	Field No.	Acres	SMU	Acres	Highly Erodible		HEL-SMU Acres Total Acres	Field Designation	Remarks
					Yes	No			
T3183-1		39.4				✓		NHEL	H.S.
T3183-2		10.0				✓		NHEL	
T3183-3		3.3				✓		NHEL	
T3183-4		14.8				✓		NHEL	H.S.
NHEL-PRESENT NO ASSECT									



Farm# 704  
Tract# 12689

Sec: 23  
Township: Camanche



Clinton County FSA

0 335 670 1,340 Feet



1 inch equals 660 feet

April 01, 2010

Legend

Wetland Determination

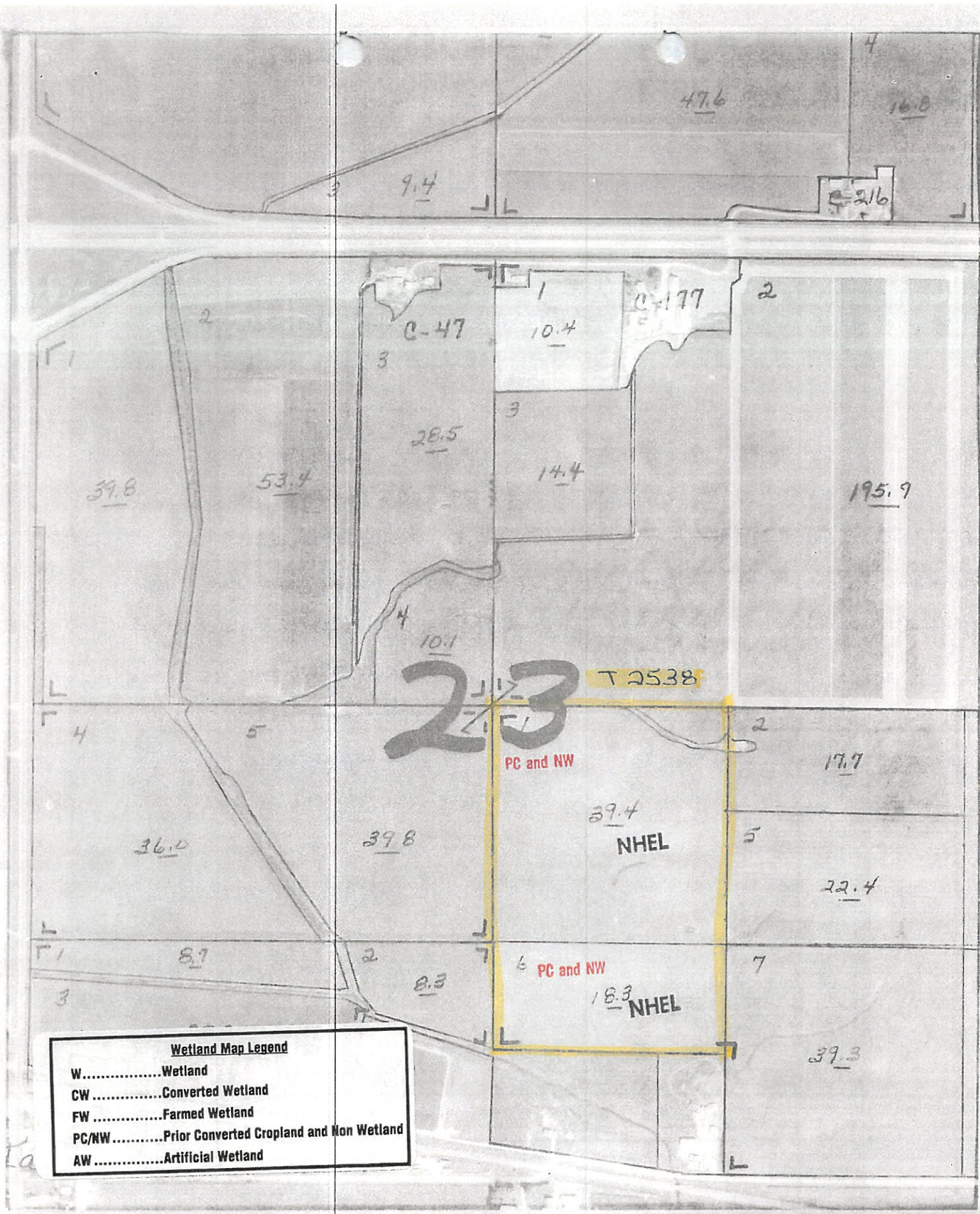
Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions
- Field Boundary

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations or contact NRCS.

T12204 = T12688 & T12689

3-21-11



Wetland Map Legend	
W.....	Wetland
CW.....	Converted Wetland
FW.....	Farmed Wetland
PC/NW.....	Prior Converted Cropland and Non Wetland
AW.....	Artificial Wetland

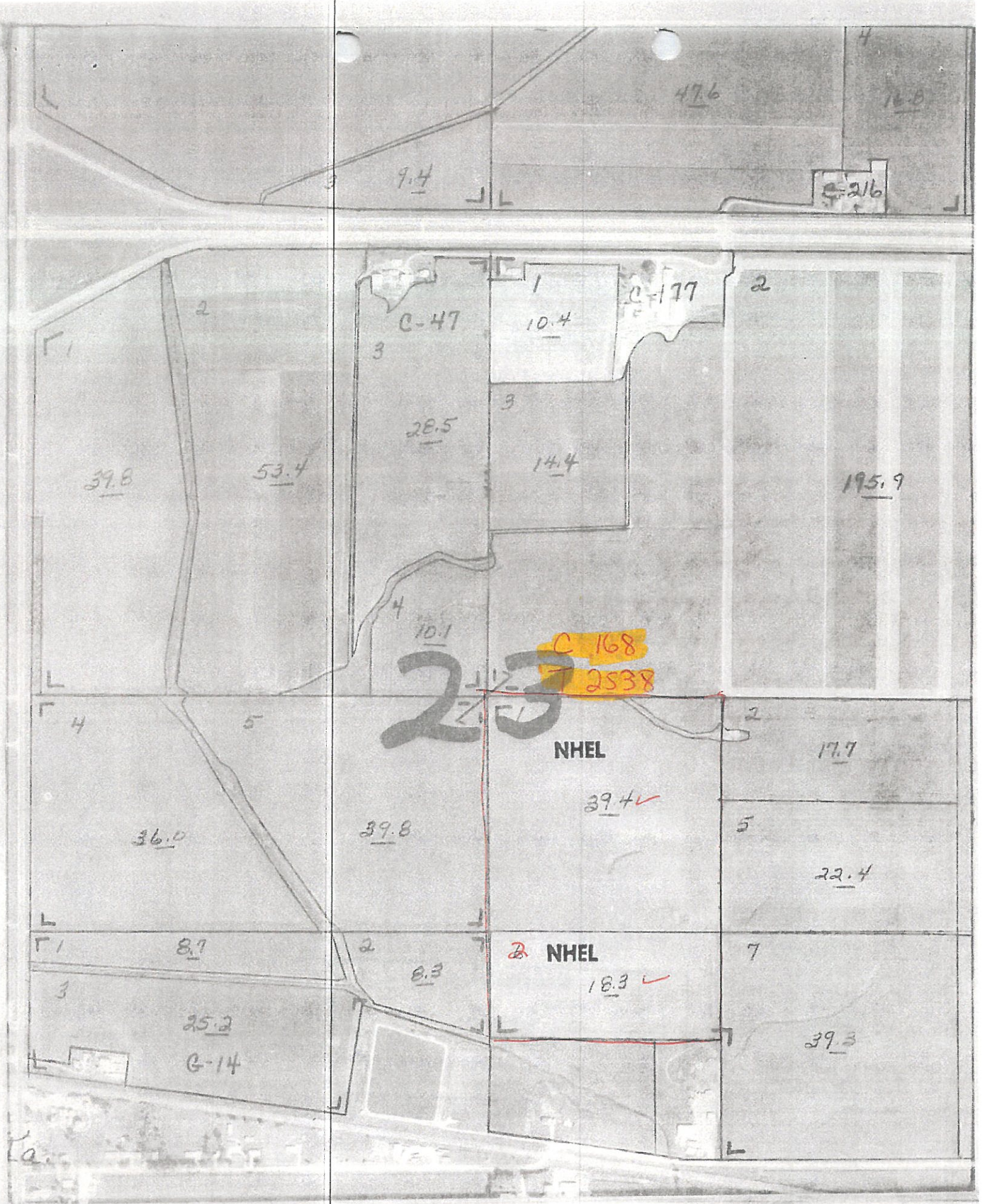
NOT TO SCALE

CROP YEAR - Clinton

0-9

120





NOT TO SCALE

CROSS YEAR -

Clinton

0-9 81RS  
Dam

120



NOT TO SCALE

CROP YEAR - Clinton

0-9 81R5 120  
Corn



C-190

C-107

L-112

T 3183 24

1 PC and NW

NHEL

2 PC and NW

NHEL

4 PC and NW

NHEL

3 PC and NW  
NHEL

Wetland Map Legend	
W.....	Wetland
CW.....	Converted Wetland
FW.....	Farmed Wetland
PC/NW.....	Prior Converted Cropland and Non Wetland
AW.....	Artificial Wetland

C-190

C-107

L-112

T 3184

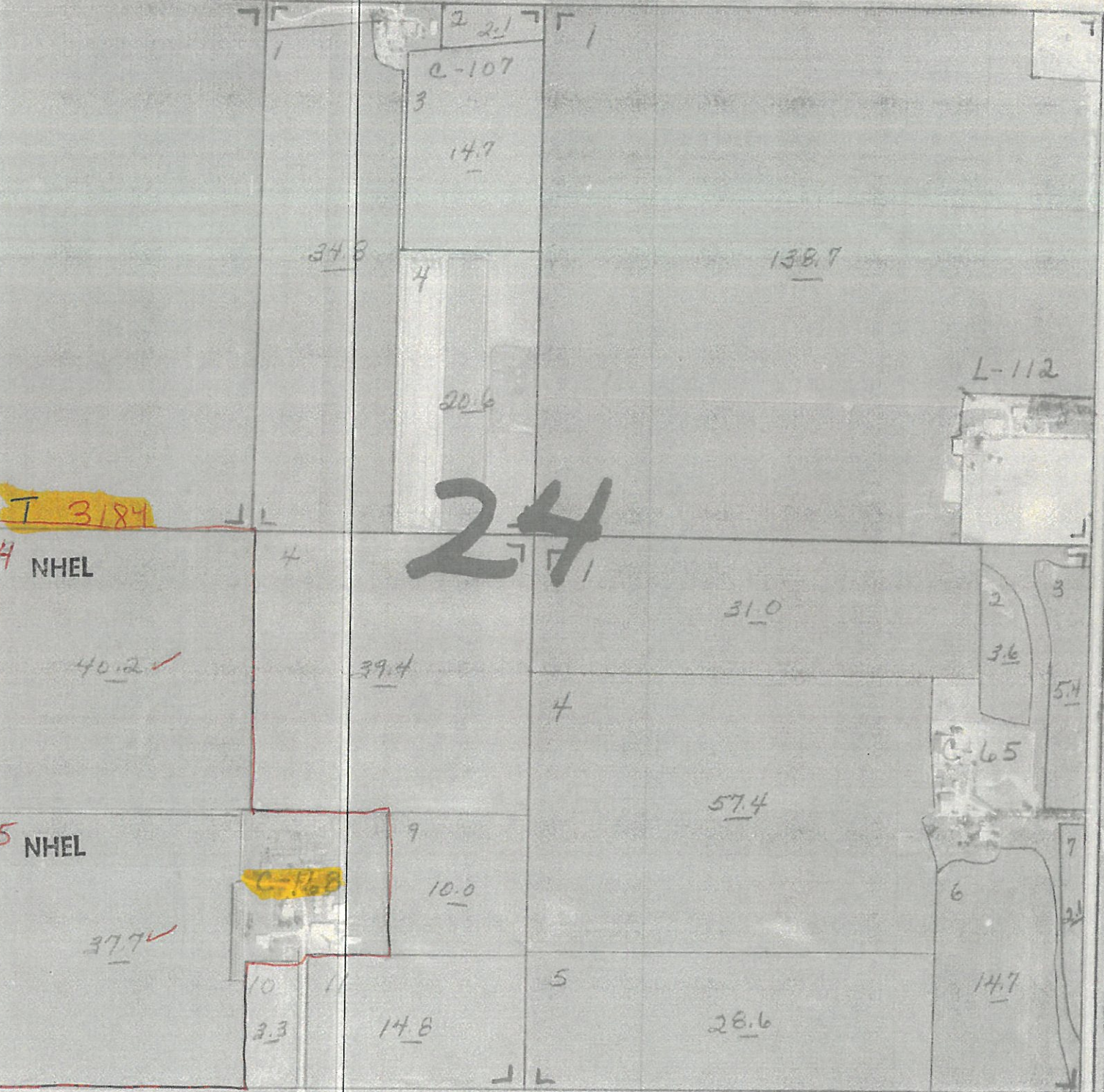
24

4 NHEL

5 NHEL

C-168

C-65



C-190

C-107

3

14.7

34.8

4

20.6

138.7

L-112

T 383

24

NHEL

31.0

40.2

39.4 ✓

3.6

5.1

C-65

57.4

2 NHEL

C-168

10.0 ✓

6

7

37.7

3 NHEL

4 NHEL

14.8 ✓

5

28.6

14.7

**APPENDIX D**  
**Wetland Determination Documentation Forms**

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-1  
 Investigator(s): Jordan Smith Section, Township, Range: S23 T81N R06E  
 Landform (hillside, terrace, etc.): Drainage Local relief (concave, convex, none): Slightly convex  
 Slope (%): 2 Lat: 41.803566 Long: -90.325088 Datum: IA State Plane North  
 Soil Map Unit Name: Ansgar silt loam (760) NWI classification: PEM1C

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 X 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>    </u>
---	---

Remarks:  
 Data point taken adjoining a drainage feature that was connected to an apparent off-site wetland. Off-site wetland drained underneath railbed and discharging to off-site Rock Creek.

**VEGETATION – Use scientific names of plants.**

Tree Stratum	(Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status																									
1. <u>Salix interior</u>		10	Yes	FACW	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>          </u> (A) Total Number of Dominant Species Across All Strata: <u>          </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>          </u> (A/B)																								
2. _____																													
3. _____																													
4. _____																													
5. _____																													
		10	=Total Cover		<b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;"></td> <td style="width:30%; text-align: center;">Total % Cover of:</td> <td style="width:30%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td style="text-align: center;">10</td> <td style="text-align: center;">x 1 = 10</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">90</td> <td style="text-align: center;">x 2 = 180</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">x 3 = 0</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">x 4 = 0</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">x 5 = 0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;"><u>100</u> (A)</td> <td style="text-align: center;"><u>190</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.90</u></td> </tr> </table>		Total % Cover of:	Multiply by:	OBL species	10	x 1 = 10	FACW species	90	x 2 = 180	FAC species	0	x 3 = 0	FACU species	0	x 4 = 0	UPL species	0	x 5 = 0	Column Totals:	<u>100</u> (A)	<u>190</u> (B)	Prevalence Index = B/A = <u>1.90</u>		
	Total % Cover of:	Multiply by:																											
OBL species	10	x 1 = 10																											
FACW species	90	x 2 = 180																											
FAC species	0	x 3 = 0																											
FACU species	0	x 4 = 0																											
UPL species	0	x 5 = 0																											
Column Totals:	<u>100</u> (A)	<u>190</u> (B)																											
Prevalence Index = B/A = <u>1.90</u>																													
			=Total Cover		<b>Hydrophytic Vegetation Indicators:</b> <u>    </u> 1 - Rapid Test for Hydrophytic Vegetation <u>    </u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <u>    </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>    </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																								
		90	=Total Cover		<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>    </u>																								
			=Total Cover																										
Remarks: (Include photo numbers here or on a separate sheet.) Hydrophytic vegetation present. Shown as Photo # in Appendix D.																													

**SOIL**

Sampling Point: DP-1

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 2/1	95	5YR 5/6	5	C	M	Sandy	Prominent redox concentrations
5-18	10YR 4/3	100					Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- |  |  |
|--|--|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Gleyed Matrix (S4)    |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input checked="" type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Stripped Matrix (S6)        |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Dark Surface (S7)           |
| <input type="checkbox"/> Stratified Layers (A5)            | <input type="checkbox"/> Loamy Mucky Mineral (F1)    |
| <input type="checkbox"/> 2 cm Muck (A10)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)    |
| <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)      |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check 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 checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input checked="" 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  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): 2  
 Saturation Present? Yes  No  Depth (inches): 0  
 (includes capillary fringe)

Wetland Hydrology Present? Yes  No

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

Remarks:

Wetland hydrology present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-2  
 Investigator(s): Jordan Smith Section, Township, Range: S23 T81N R06E  
 Landform (hillside, terrace, etc.): Flats Local relief (concave, convex, none): None  
 Slope (%): 1 Lat: 41.803621 Long: -90.344468 Datum: IA State Plane North  
 Soil Map Unit Name: Ansgar silt loam (760) 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>    </u>
---	---

Remarks:  
 Data point taken in flats near drainage area south of railbed. Out data point for DP-1.

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ =Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ =Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phalaris arundinacea</u>	70	Yes	FACW	
2. <u>Schoenoplectus tabernaemontani</u>	20	Yes	OBL	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
90 =Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ =Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>20</u>	x 1 = <u>20</u>
FACW species	<u>70</u>	x 2 = <u>140</u>
FAC species	<u>0</u>	x 3 = <u>0</u>
FACU species	<u>0</u>	x 4 = <u>0</u>
UPL species	<u>0</u>	x 5 = <u>0</u>
Column Totals:	<u>90</u> (A)	<u>160</u> (B)
Prevalence Index = B/A = <u>1.78</u>		

**Hydrophytic Vegetation Indicators:**

     1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0<sup>1</sup>

     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation not present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-2

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-15	10YR 4/2	100					Sandy	
15-32	10YR 4/4	100					Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:			Indicators for Problematic Hydric Soils <sup>3</sup> :		
<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"/> Iron-Manganese Masses (F12)			
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)			
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)			
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Other (Explain in Remarks)			
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)				
<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)				

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

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

Remarks:  
Hydric soil not present.

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check 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 checked="" 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)	

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>21</u> Saturation Present?        Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>9</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
--	--

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

Remarks:  
Wetland hydrology not present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-3  
 Investigator(s): Jordan Smith Section, Township, Range: S23 T81N R06E  
 Landform (hillside, terrace, etc.): Drainage Local relief (concave, convex, none): Convex  
 Slope (%): 1 Lat: 41.804315 Long: -90.34307 Datum: IA State Plane North  
 Soil Map Unit Name: Ansgar silt loam (760) NWI classification: PEM1C

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 FINDINGS – Attach site map showing sampling point locations, transects, 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:  
 Data point taken in drainage area. Drainage area influenced by multiple drainage culverts discharging into drainage area. Also in a down gradient position from start of wetland and drainage area. This area drains into the apparent off-site wetlands.

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status																									
1. <u>Salix interior</u>	10	Yes	FACW	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</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>100.0%</u> (A/B)																								
2. _____																												
3. _____																												
4. _____																												
5. _____																												
	10	=Total Cover																										
Sapling/Shrub Stratum (Plot size: _____)																												
1. _____				<b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;"></td> <td style="width:30%; text-align: center;">Total % Cover of:</td> <td style="width:30%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td style="text-align: center;">20</td> <td style="text-align: center;">x 1 = 20</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">80</td> <td style="text-align: center;">x 2 = 160</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">x 3 = 0</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">x 4 = 0</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td style="text-align: center;">x 5 = 0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;"><u>100</u> (A)</td> <td style="text-align: center;"><u>180</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.80</u></td> </tr> </table>		Total % Cover of:	Multiply by:	OBL species	20	x 1 = 20	FACW species	80	x 2 = 160	FAC species	0	x 3 = 0	FACU species	0	x 4 = 0	UPL species	0	x 5 = 0	Column Totals:	<u>100</u> (A)	<u>180</u> (B)	Prevalence Index = B/A = <u>1.80</u>		
	Total % Cover of:	Multiply by:																										
OBL species	20	x 1 = 20																										
FACW species	80	x 2 = 160																										
FAC species	0	x 3 = 0																										
FACU species	0	x 4 = 0																										
UPL species	0	x 5 = 0																										
Column Totals:	<u>100</u> (A)	<u>180</u> (B)																										
Prevalence Index = B/A = <u>1.80</u>																												
2. _____																												
3. _____																												
4. _____																												
5. _____																												
		=Total Cover																										
Herb Stratum (Plot size: <u>5</u> )																												
1. <u>Phalaris arundinacea</u>	70	Yes	FACW	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																								
2. <u>Typha angustifolia</u>	20	Yes	OBL																									
3. _____																												
4. _____																												
5. _____																												
6. _____																												
7. _____																												
8. _____																												
9. _____																												
10. _____																												
	90	=Total Cover																										
Woody Vine Stratum (Plot size: _____)																												
1. _____				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																								
2. _____																												
		=Total Cover																										

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-3

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-13	10YR 2/1	95	5YR 4/6	5	C	M	Loamy/Clayey	Prominent redox concentrations
13-32	10YR 4/6	100					Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

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

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

Remarks:  
Hydric soil present.

**HYDROLOGY**

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?      Yes <input checked="" type="checkbox"/> No _____      Depth (inches): <u>9</u> Saturation Present?        Yes <input checked="" type="checkbox"/> No _____        Depth (inches): <u>2</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> 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 hydrology present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-4  
 Investigator(s): Jordan Smith Section, Township, Range: S23 T81N R06E  
 Landform (hillside, terrace, etc.): Farmed field Local relief (concave, convex, none): None  
 Slope (%): 1 Lat: 41.804402 Long: -90.343005 Datum: IA State Plane North  
 Soil Map Unit Name: Garwin silty clay loam (918) NWI classification: PEM1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation X, Soil X, or Hydrology X 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>    </u> Hydric Soil Present? Yes <u>    </u> No <u>X</u> Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>    </u> No <u>X</u>
Remarks: Data point taken in farmed field. Out data point for DP-3.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Zea mays</u>	<u>60</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
6. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
7. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
8. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
9. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
10. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>60</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>0</u>	x 1 = <u>0</u>
FACW species	<u>0</u>	x 2 = <u>0</u>
FACU species	<u>0</u>	x 3 = <u>0</u>
UPL species	<u>60</u>	x 5 = <u>300</u>
Column Totals:	<u>60</u> (A)	<u>300</u> (B)
Prevalence Index = B/A = <u>5.00</u>		

**Hydrophytic Vegetation Indicators:**

     1 - Rapid Test for Hydrophytic Vegetation

     2 - Dominance Test is >50%

     3 - Prevalence Index is ≤3.0<sup>1</sup>

     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators 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.)  
 Hydrophytic vegetation not present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-4

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-13	10YR 4/1	100					Loamy/Clayey	
13-32	10YR 4/6	100					Loamy/Clayey	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

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

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

Remarks:  
Hydric soil not present.

**HYDROLOGY**

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check 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"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Gauge or Well Data (D9)
	<input type="checkbox"/> Other (Explain in Remarks)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?      Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?        Yes <u>X</u> No _____    Depth (inches): <u>10</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>X</u>
--	--

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

Remarks:  
Wetland hydrology not present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-5  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Farmed field Local relief (concave, convex, none): None  
 Slope (%): 2 Lat: 41.802618 Long: -90.32881 Datum: IA State Plane North  
 Soil Map Unit Name: Garwin silty clay loam (918) NWI classification: PEM1B

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation X, Soil X, or Hydrology X 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>    </u> No <u>X</u> Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>    </u> No <u>X</u>
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Remarks:  
 Data point taken in area that appears to be influenced by adjoining man-made features.

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
=Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
=Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Festuca arundinacea</u>	80	Yes	FACU	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
80 =Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
=Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>0</u>	x 1 = <u>0</u>
FACW species	<u>0</u>	x 2 = <u>0</u>
FAC species	<u>0</u>	x 3 = <u>0</u>
FACU species	<u>80</u>	x 4 = <u>320</u>
UPL species	<u>0</u>	x 5 = <u>0</u>
Column Totals:	<u>80</u> (A)	<u>320</u> (B)
Prevalence Index = B/A = <u>4.00</u>		

**Hydrophytic Vegetation Indicators:**

     1 - Rapid Test for Hydrophytic Vegetation

     2 - Dominance Test is >50%

     3 - Prevalence Index is ≤3.0<sup>1</sup>

     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes      No X

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation not present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-5

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-32	10YR 4/3	65	10YR 4/6	35			Loamy/Clayey	Apparent fill material
0-32								

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No \_\_\_\_\_

Remarks:  
Hydric soil not present. Apparent fill material.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

Secondary Indicators (minimum of two required)

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Surface Water (A1)             | <input type="checkbox"/> Water-Stained Leaves (B9)                  | <input type="checkbox"/> Surface Soil Cracks (B6)                  |
| <input checked="" 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 X No \_\_\_\_\_ Depth (inches): 0  
 Water Table Present? Yes X No \_\_\_\_\_ Depth (inches): 0  
 Saturation Present? Yes X No \_\_\_\_\_ Depth (inches): 0  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

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

Remarks:  
Wetland hydrology not present. Appears to be influenced by adjoining man-made features.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-6  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): Sloped  
 Slope (%): 3 Lat: 41.803849 Long: -90.32995 Datum: IA State Plane North  
 Soil Map Unit Name: Dinsdale silt loam (377B) NWI classification: PEM1A

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 FINDINGS – Attach site map showing sampling point locations, transects, 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"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	--

Remarks:  
 Adjoining Wetland Area 2. This apparent wetland area slopes and drains towards Wetland Area 2 and Drainage Area X.

**VEGETATION – Use scientific names of plants.**

Tree Stratum	(Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																									
1.	_____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</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>100.0%</u> (A/B)																								
2.	_____	_____	_____	_____																									
3.	_____	_____	_____	_____																									
4.	_____	_____	_____	_____																									
5.	_____	_____	_____	_____																									
		=Total Cover																											
Sapling/Shrub Stratum	(Plot size: _____)				<b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 25%;">Total % Cover of:</td> <td style="width: 25%;">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td style="text-align: center;"><u>10</u></td> <td style="text-align: center;"><u>x 1 = 10</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>90</u></td> <td style="text-align: center;"><u>x 2 = 180</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;"><u>x 3 = 0</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;"><u>x 4 = 0</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;"><u>x 5 = 0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;"><u>100</u> (A)</td> <td style="text-align: center;"><u>190</u> (B)</td> </tr> <tr> <td colspan="3" style="text-align: center;">Prevalence Index = B/A = <u>1.90</u></td> </tr> </table>		Total % Cover of:	Multiply by:	OBL species	<u>10</u>	<u>x 1 = 10</u>	FACW species	<u>90</u>	<u>x 2 = 180</u>	FAC species	<u>0</u>	<u>x 3 = 0</u>	FACU species	<u>0</u>	<u>x 4 = 0</u>	UPL species	<u>0</u>	<u>x 5 = 0</u>	Column Totals:	<u>100</u> (A)	<u>190</u> (B)	Prevalence Index = B/A = <u>1.90</u>		
	Total % Cover of:	Multiply by:																											
OBL species	<u>10</u>	<u>x 1 = 10</u>																											
FACW species	<u>90</u>	<u>x 2 = 180</u>																											
FAC species	<u>0</u>	<u>x 3 = 0</u>																											
FACU species	<u>0</u>	<u>x 4 = 0</u>																											
UPL species	<u>0</u>	<u>x 5 = 0</u>																											
Column Totals:	<u>100</u> (A)	<u>190</u> (B)																											
Prevalence Index = B/A = <u>1.90</u>																													
1.	_____	_____	_____	_____																									
2.	_____	_____	_____	_____																									
3.	_____	_____	_____	_____																									
4.	_____	_____	_____	_____																									
5.	_____	_____	_____	_____																									
		=Total Cover																											
Herb Stratum	(Plot size: <u>5</u> )				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																								
1.	<u>Phalaris arundinacea</u>	<u>90</u>	<u>Yes</u>	<u>FACW</u>																									
2.	<u>Schoenoplectus tabernaemontani</u>	<u>10</u>	<u>No</u>	<u>OBL</u>																									
3.	_____	_____	_____	_____																									
4.	_____	_____	_____	_____																									
5.	_____	_____	_____	_____																									
6.	_____	_____	_____	_____																									
7.	_____	_____	_____	_____																									
8.	_____	_____	_____	_____																									
9.	_____	_____	_____	_____																									
10.	_____	_____	_____	_____																									
		<u>100</u> =Total Cover																											
Woody Vine Stratum	(Plot size: _____)				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																								
1.	_____	_____	_____	_____																									
2.	_____	_____	_____	_____																									
		=Total Cover																											

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-6

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-11	10YR 2/1	93	5YR 4/6	7	C	PL	Loamy/Clayey	Prominent redox concentrations
11-32	10YR 4/4	100					Loamy/Clayey	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :	
<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"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)	
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Matrix (F3)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Depleted Dark Surface (F7)		
	<input type="checkbox"/> Redox Depressions (F8)		

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

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

Remarks:  
Hydric soils present.

**HYDROLOGY**

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Saturation (A3)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

<b>Field Observations:</b> Surface Water Present?    Yes <input checked="" type="checkbox"/> No _____    Depth (inches): <u>0</u> Water Table Present?      Yes <input checked="" type="checkbox"/> No _____      Depth (inches): <u>0</u> Saturation Present?        Yes <input checked="" type="checkbox"/> No _____        Depth (inches): <u>0</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
--	--

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

Remarks:  
Wetland hydrology present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-7  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): None  
 Slope (%): 5 Lat: 41.80389 Long: -90.329935 Datum: IA State Plane North  
 Soil Map Unit Name: Dinsdale silt loam (377B) NWI classification: \_\_\_\_\_

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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <input checked="" type="checkbox"/>
--	---

Remarks:  
 Out data point for DP-6. Data point taken on hillside.

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status															
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> 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																		
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				<b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FACU species <u>100</u></td> <td>x 4 = <u>400</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>400</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FACU species <u>100</u>	x 4 = <u>400</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>400</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																	
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>0</u>	x 2 = <u>0</u>																	
FACU species <u>100</u>	x 4 = <u>400</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>100</u> (A)	<u>400</u> (B)																	
Prevalence Index = B/A = <u>4.00</u>																		
1. _____	_____	_____	_____															
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
=Total Cover																		
<u>Herb Stratum</u> (Plot size: <u>5</u> )				<b>Hydrophytic Vegetation Indicators:</b> _____ 1 - Rapid Test for Hydrophytic Vegetation _____ 2 - Dominance Test is >50% _____ 3 - Prevalence Index is ≤3.0 <sup>1</sup> _____ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
1. <u>Festuca arundinacea</u>	<u>100</u>	<u>Yes</u>	<u>FACU</u>															
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
9. _____	_____	_____	_____															
10. _____	_____	_____	_____															
=Total Cover																		
<u>Woody Vine Stratum</u> (Plot size: _____)				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <input checked="" type="checkbox"/>														
1. _____	_____	_____	_____															
2. _____	_____	_____	_____															
=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation not present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-7

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-7	10YR 4/3	100					Loamy/Clayey	
7-32	10YR 4/6	100					Loamy/Clayey	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

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

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

Remarks:  
Hydric soil not present.

**HYDROLOGY**

Wetland Hydrology Indicators:	Primary Indicators (minimum of one is required; check 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)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?      Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?        Yes <u>X</u> No _____    Depth (inches): <u>7</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>
---	---

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

Remarks:  
Wetland hydrology not present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-8  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Drainage Local relief (concave, convex, none): Convex  
 Slope (%): 3 Lat: 41.803741 Long: -90.32833 Datum: IA State Plane North  
 Soil Map Unit Name: Garwin silty clay loam (918) NWI classification: PEM1B

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 FINDINGS – Attach site map showing sampling point locations, transects, 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"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	--

Remarks:  
 Data point taken upgradient of Wetland Area 2 and Drainage Area X. Wetland Area X drains into Wetland Area 2.

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</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>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
=Total Cover																				
<b>Sapling/Shrub Stratum (Plot size: _____)</b>																				
1. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>100</u></td> <td>x 2 = <u>200</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>200</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>100</u>	x 2 = <u>200</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>200</u> (B)	Prevalence Index = B/A = <u>2.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>100</u>	x 2 = <u>200</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>200</u> (B)																			
Prevalence Index = B/A = <u>2.00</u>																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
=Total Cover																				
<b>Herb Stratum (Plot size: <u>5</u>)</b>																				
1. <u>Phalaris arundinacea</u>	<u>100</u>	<u>Yes</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> 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																				
<b>Woody Vine Stratum (Plot size: _____)</b>																				
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																
2. _____	_____	_____	_____																	
=Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-8

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-11	10YR 2/1	90	5YR 4/4	100	C	PL	Loamy/Clayey	Prominent redox concentrations
11-32	10YR 3/6	100						

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:  
Hydric soil present.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check 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 checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input checked="" 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  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): 7  
 Saturation Present? Yes  No  Depth (inches): 2  
 (includes capillary fringe)

Wetland Hydrology Present? Yes  No

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

Remarks:  
Wetland hydrology present. In upgradient area from Wetland Area 2.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-9  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Farmed field Local relief (concave, convex, none): None  
 Slope (%): 2 Lat: 41.803794 Long: -90.328155 Datum: IA State Plane North  
 Soil Map Unit Name: Garwin silty clay loam (918) 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>    </u> No <u>X</u> Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>    </u> No <u>X</u>
Remarks: Data point taken in farmed field. Out data point for DP-8	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status															
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<b>Dominance Test worksheet:</b> 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. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>															
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>															
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>															
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>															
<u>    </u> =Total Cover				<b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>    0    </u></td> <td>x 1 = <u>    0    </u></td> </tr> <tr> <td>FACW species <u>    0    </u></td> <td>x 2 = <u>    0    </u></td> </tr> <tr> <td>FACU species <u>    0    </u></td> <td>x 3 = <u>    0    </u></td> </tr> <tr> <td>UPL species <u>    60    </u></td> <td>x 5 = <u>    300    </u></td> </tr> <tr> <td>Column Totals: <u>    60    </u> (A)</td> <td><u>    300    </u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>    5.00    </u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>    0    </u>	x 1 = <u>    0    </u>	FACW species <u>    0    </u>	x 2 = <u>    0    </u>	FACU species <u>    0    </u>	x 3 = <u>    0    </u>	UPL species <u>    60    </u>	x 5 = <u>    300    </u>	Column Totals: <u>    60    </u> (A)	<u>    300    </u> (B)	Prevalence Index = B/A = <u>    5.00    </u>	
Total % Cover of:	Multiply by:																	
OBL species <u>    0    </u>	x 1 = <u>    0    </u>																	
FACW species <u>    0    </u>	x 2 = <u>    0    </u>																	
FACU species <u>    0    </u>	x 3 = <u>    0    </u>																	
UPL species <u>    60    </u>	x 5 = <u>    300    </u>																	
Column Totals: <u>    60    </u> (A)	<u>    300    </u> (B)																	
Prevalence Index = B/A = <u>    5.00    </u>																		
<u>    </u> =Total Cover																		
<u>    </u> =Total Cover																		
<u>    </u> =Total Cover																		
<u>    </u> =Total Cover																		
<u>    </u> =Total Cover				<b>Hydrophytic Vegetation Indicators:</b> <u>    </u> 1 - Rapid Test for Hydrophytic Vegetation <u>    </u> 2 - Dominance Test is >50% <u>    </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <u>    </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>    </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
<u>    </u> =Total Cover																		
<u>    </u> =Total Cover																		
<u>    </u> =Total Cover																		
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<u>    </u> =Total Cover																		
<u>    </u> =Total Cover																		
<u>    </u> =Total Cover																		
<u>    </u> =Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes <u>    </u> No <u>X</u>														

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation not present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-9

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 (moist)	%	Type <sup>1</sup>		
0-15	10YR 4/4	100				Loamy/Clayey	
15-32	10YR 4/6	100				Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

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

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

Remarks:  
Hydric soil not present.

**HYDROLOGY**

Wetland Hydrology Indicators:	Primary Indicators (minimum of one is required; check 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 checked="" 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)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?      Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present?        Yes <u>X</u> No _____    Depth (inches): <u>10</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u>X</u>
--	--

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

Remarks:  
Wetland hydrology not present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-10  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Drainage Local relief (concave, convex, none): Convex  
 Slope (%): 2 Lat: 41.801504 Long: -90.325267 Datum: IA State Plane North  
 Soil Map Unit Name: Atterbury silt loam (351) NWI classification: PEM1B

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 FINDINGS – Attach site map showing sampling point locations, transects, 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"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:  
 Data point taken in apparent drainage area associated with former railbed. Appears to be influenced by off-site adjoining retention pond.

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phalaris arundinacea</u>	70	Yes	FACW	
2. <u>Typha angustifolia</u>	20	Yes	OBL	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
90 = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

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**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>20</u>	x 1 = <u>20</u>
FACW species	<u>70</u>	x 2 = <u>140</u>
FAC species	<u>0</u>	x 3 = <u>0</u>
FACU species	<u>0</u>	x 4 = <u>0</u>
UPL species	<u>0</u>	x 5 = <u>0</u>
Column Totals:	<u>90</u> (A)	<u>160</u> (B)
Prevalence Index = B/A = <u>1.78</u>		

---

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators 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.)  
 Hydrophytic vegetation present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-10

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 2/1	93	5YR 5/6	7	C	PL	Loamy/Clayey	Prominent redox concentrations
8-32	10YR 4/4	100					Loamy/Clayey	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :	
<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"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Dark Surface (S7)	<input type="checkbox"/> Very Shallow Dark Surface (F22)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input checked="" 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)		

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

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

Remarks:  
Hydric soil present.

**HYDROLOGY**

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input checked="" 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)

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>10</u> Saturation Present?        Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>2</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	---

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

Remarks:  
Wetland hydrology present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-11  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Field Local relief (concave, convex, none): None  
 Slope (%): 2 Lat: 41.801477 Long: -90.325581 Datum: IA State Plane North  
 Soil Map Unit Name: Atterbury silt loam (351) 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	Is the Sampled Area within a Wetland? Yes <u>    </u> No <u>X</u>
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Remarks:  
 Data point taken in upgradient area relative to DP-10, serving as out data point.

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Setaria viridis</u>	<u>45</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>Andropogon gerardii</u>	<u>30</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Poa pratensis</u>	<u>15</u>	<u>No</u>	<u>FAC</u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
6. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
7. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
8. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
9. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
10. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>90</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>0</u>	<u>x 1 = 0</u>
FACW species	<u>0</u>	<u>x 2 = 0</u>
FAC species	<u>45</u>	<u>x 3 = 135</u>
FACU species	<u>0</u>	<u>x 4 = 0</u>
UPL species	<u>45</u>	<u>x 5 = 225</u>
Column Totals:	<u>90</u> (A)	<u>360</u> (B)
Prevalence Index = B/A = <u>4.00</u>		

**Hydrophytic Vegetation Indicators:**

     1 - Rapid Test for Hydrophytic Vegetation

     2 - Dominance Test is >50%

     3 - Prevalence Index is ≤3.0<sup>1</sup>

     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes      No X

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation not present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-11

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 (moist)	%	Type <sup>1</sup>		
0-15	10YR 4/3	100				Loamy/Clayey	
15-32	10YR 4/6	100				Loamy/Clayey	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Gleyed Matrix (S4)   |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Dark Surface (S7)          |
| <input type="checkbox"/> Stratified Layers (A5)            | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> 2 cm Muck (A10)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <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)     |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks:  
Hydric soil not present.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check 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 X Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes X No \_\_\_\_\_ Depth (inches): 9  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

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

Remarks:  
Wetland hydrology not present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-12  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Drainage Local relief (concave, convex, none): Convex  
 Slope (%): 3 Lat: 41.802648 Long: -90.325228 Datum: IA State Plane North  
 Soil Map Unit Name: Atterbury silt loam (351) NWI classification: PEM1B

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 X 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>    </u>
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Remarks:  
 Data point taken in drainage area that appears to be influenced by former railbed.

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ =Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ =Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phalaris arundinacea</u>	60	Yes	FACW	
2. <u>Typha angustifolia</u>	20	Yes	OBL	
3. <u>Scirpus atrovirens</u>	10	No	OBL	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
90 =Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ =Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

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**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>30</u>	x 1 = <u>30</u>
FACW species	<u>60</u>	x 2 = <u>120</u>
FAC species	<u>0</u>	x 3 = <u>0</u>
FACU species	<u>0</u>	x 4 = <u>0</u>
UPL species	<u>0</u>	x 5 = <u>0</u>
Column Totals:	<u>90</u> (A)	<u>150</u> (B)
Prevalence Index = B/A = <u>1.67</u>		

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**Hydrophytic Vegetation Indicators:**

     1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0<sup>1</sup>

     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

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**Hydrophytic Vegetation Present?** Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-12

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 2/1	90	5YR 5/6	10	C	PL	Loamy/Clayey	Prominent redox concentrations
8-32								

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:  
Hydric soils present.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants (B14)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Gauge or Well Data (D9)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): 14  
 Saturation Present? Yes  No  Depth (inches): 2  
 (includes capillary fringe)

Wetland Hydrology Present? Yes  No

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

Remarks:  
Wetland hydrology present. Two drainage culverts are located on the east and west of the former railbed connecting the two drainageways.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-13  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Field Local relief (concave, convex, none): None  
 Slope (%): 3 Lat: 41.803871 Long: -90.325191 Datum: IA State Plane North  
 Soil Map Unit Name: Atterbury silt loam (351) 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>    </u> No <u>X</u> Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>    </u> No <u>X</u>
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Remarks:  
 Data point taken in field. Serving as out point for DP-12.

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Setaria viridis</u>	45	Yes	UPL	
2. <u>Andropogon gerardii</u>	40	Yes	FAC	
3. <u>Poa pratensis</u>	15	No	FAC	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
6. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
7. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
8. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
9. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
10. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>100</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>0</u>	x 1 = <u>0</u>
FACW species	<u>0</u>	x 2 = <u>0</u>
FAC species	<u>55</u>	x 3 = <u>165</u>
FACU species	<u>0</u>	x 4 = <u>0</u>
UPL species	<u>45</u>	x 5 = <u>225</u>
Column Totals:	<u>100</u> (A)	<u>390</u> (B)
Prevalence Index = B/A = <u>3.90</u>		

**Hydrophytic Vegetation Indicators:**

     1 - Rapid Test for Hydrophytic Vegetation

     2 - Dominance Test is >50%

     3 - Prevalence Index is ≤3.0<sup>1</sup>

     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes      No X

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation not present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-13

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 (moist)	%	Type <sup>1</sup>		
0-32	10YR 4/3	75	10YR 4/6	20		Loamy/Clayey	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Gleyed Matrix (S4)   |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Dark Surface (S7)          |
| <input type="checkbox"/> Stratified Layers (A5)            | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> 2 cm Muck (A10)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <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)     |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks:  
Hydric soil not present.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check 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 checked="" 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 X Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes X No \_\_\_\_\_ Depth (inches): 20  
 Saturation Present? Yes X No \_\_\_\_\_ Depth (inches): 7  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

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

Remarks:  
Wetland hydrology not present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP14  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Drainage Local relief (concave, convex, none): Convex  
 Slope (%): 2 Lat: 41.802453 Long: -90.325072 Datum: IA State Plane North  
 Soil Map Unit Name: Ripon silt loam (217B) NWI classification: PEM1B

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation     , Soil X, or Hydrology X 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>    </u>
Remarks: Data point taken in drainage area associated with former railbed.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ =Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ =Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phalaris arundinacea</u>	50	Yes	FACW	
2. <u>Scirpus atrovirens</u>	25	Yes	OBL	
3. <u>Typha angustifolia</u>	15	No	OBL	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
90 =Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ =Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>40</u>	x 1 = <u>40</u>
FACW species	<u>50</u>	x 2 = <u>100</u>
FAC species	<u>0</u>	x 3 = <u>0</u>
FACU species	<u>0</u>	x 4 = <u>0</u>
UPL species	<u>0</u>	x 5 = <u>0</u>
Column Totals:	<u>90</u> (A)	<u>140</u> (B)
Prevalence Index = B/A = <u>1.56</u>		

**Hydrophytic Vegetation Indicators:**

     1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0<sup>1</sup>

     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-14

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-9	10YR 2/1	93	5YR 4/6	7	C	PL	Loamy/Clayey	Prominent redox concentrations
9-32								

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

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

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

Remarks:  
Hydric soil present.

**HYDROLOGY**

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> Geomorphic Position (D2)	
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?      Yes <input checked="" type="checkbox"/> No _____      Depth (inches): <u>19</u> Saturation Present?        Yes <input checked="" type="checkbox"/> No _____        Depth (inches): <u>3</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
--	--

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

Remarks:  
Wetland hydrology present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-15  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Former Railbed Local relief (concave, convex, none): None  
 Slope (%): 1 Lat: 41.802441 Long: -90.32514 Datum: IA State Plane North  
 Soil Map Unit Name: Ripon silt loam (217B) 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 X, or Hydrology X 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>    </u> No <u>X</u>
---	---

Remarks:  
 Data point taken in former railroad bed adjoining drainage area.

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Poa pratensis</u>	20	Yes	FAC	
2. <u>Taraxacum officinale</u>	5	Yes	FACU	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
25 = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>0</u>	x 1 = <u>0</u>
FACW species	<u>0</u>	x 2 = <u>0</u>
FAC species	<u>20</u>	x 3 = <u>60</u>
FACU species	<u>5</u>	x 4 = <u>20</u>
UPL species	<u>0</u>	x 5 = <u>0</u>
Column Totals:	<u>25</u> (A)	<u>80</u> (B)
Prevalence Index = B/A = <u>3.20</u>		

**Hydrophytic Vegetation Indicators:**

     1 - Rapid Test for Hydrophytic Vegetation

     2 - Dominance Test is >50%

     3 - Prevalence Index is ≤3.0<sup>1</sup>

     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes      No X

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation not present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-15

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 (moist)	%	Type <sup>1</sup>		
0-10	10YR 5/6	100				Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: Crushed Lime  
 Depth (inches): 10

Hydric Soil Present? Yes  No

Remarks:  
 Hydric soil not present. Apparent fill material with rocky debris at 10".

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check 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  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes  No  Depth (inches): \_\_\_\_\_  
 (includes capillary fringe)

Wetland Hydrology Present? Yes  No

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

Remarks:  
 Wetland hydrology not present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-16  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Drainage Local relief (concave, convex, none): Convex  
 Slope (%): 1 Lat: 41.801789 Long: -90.316418 Datum: IA State Plane North  
 Soil Map Unit Name: Colo silty clay loam (133) NWI classification: PEM1C

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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>    </u>
---	---

Remarks:  
 Data point taken in convex area with farmed fields to the east and west. Wetland Area appears to be connected to man-made pond on adjoining north property. Wetland Area also appears to drain off-site underneath 44th Avenue South.

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>    1    </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>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
=Total Cover																				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>    </u> )																				
1. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Total % Cover of:</td> <td style="width:50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>    0    </u></td> <td>x 1 = <u>    0    </u></td> </tr> <tr> <td>FACW species <u>    90    </u></td> <td>x 2 = <u>   180   </u></td> </tr> <tr> <td>FAC species <u>    0    </u></td> <td>x 3 = <u>    0    </u></td> </tr> <tr> <td>FACU species <u>    0    </u></td> <td>x 4 = <u>    0    </u></td> </tr> <tr> <td>UPL species <u>    0    </u></td> <td>x 5 = <u>    0    </u></td> </tr> <tr> <td>Column Totals: <u>    90    </u> (A)</td> <td><u>   180   </u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>    2.00    </u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>    0    </u>	x 1 = <u>    0    </u>	FACW species <u>    90    </u>	x 2 = <u>   180   </u>	FAC species <u>    0    </u>	x 3 = <u>    0    </u>	FACU species <u>    0    </u>	x 4 = <u>    0    </u>	UPL species <u>    0    </u>	x 5 = <u>    0    </u>	Column Totals: <u>    90    </u> (A)	<u>   180   </u> (B)	Prevalence Index = B/A = <u>    2.00    </u>	
Total % Cover of:	Multiply by:																			
OBL species <u>    0    </u>	x 1 = <u>    0    </u>																			
FACW species <u>    90    </u>	x 2 = <u>   180   </u>																			
FAC species <u>    0    </u>	x 3 = <u>    0    </u>																			
FACU species <u>    0    </u>	x 4 = <u>    0    </u>																			
UPL species <u>    0    </u>	x 5 = <u>    0    </u>																			
Column Totals: <u>    90    </u> (A)	<u>   180   </u> (B)																			
Prevalence Index = B/A = <u>    2.00    </u>																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
=Total Cover																				
<b>Herb Stratum</b> (Plot size: <u>    5    </u> )																				
1. <u>Phalaris arundinacea</u>	<u>    90    </u>	<u>    Yes    </u>	<u>    FACW    </u>	<b>Hydrophytic Vegetation Indicators:</b> <u>    </u> 1 - Rapid Test for Hydrophytic Vegetation <u>  X  </u> 2 - Dominance Test is >50% <u>  X  </u> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <u>    </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>    </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> 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																				
<b>Woody Vine Stratum</b> (Plot size: <u>    </u> )																				
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>    </u>																
2. _____	_____	_____	_____																	
=Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-16

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 2/1	90	5YR 4/6	10	C	PL	Loamy/Clayey	Prominent redox concentrations
8-32	10YR 4/6	100					Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Gleyed Matrix (S4)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Sandy Redox (S5)                   |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Stripped Matrix (S6)               |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Dark Surface (S7)                  |
| <input type="checkbox"/> Stratified Layers (A5)            | <input type="checkbox"/> Loamy Mucky Mineral (F1)           |
| <input type="checkbox"/> 2 cm Muck (A10)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)           |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3)               |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input checked="" 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)             |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:  
 Hydric soil present.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check 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 checked="" type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input checked="" 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 checked="" 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  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): 7  
 Saturation Present? Yes  No  Depth (inches): 1  
 (includes capillary fringe)

Wetland Hydrology Present? Yes  No

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

Remarks:  
 Wetland hydrology present. Apparent crayfish burrows were observed along drainage.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-17  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Farmed field Local relief (concave, convex, none): None  
 Slope (%): 3 Lat: 41.80181 Long: -90.316263 Datum: IA State Plane North  
 Soil Map Unit Name: Aterberry silt loam (351) 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 X, Soil X, or Hydrology X 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>    </u> No <u>X</u> Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>    </u> No <u>X</u>
---	--

Remarks:  
 Data point taken in farmed field. Apparent drainage tile observed discharging to drainage and Wetland Area X.

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Zea mays</u>	<u>40</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
6. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
7. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
8. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
9. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
10. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>40</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  
 Total Number of Dominant Species Across All Strata: 1 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>40</u>	x 5 = <u>200</u>
Column Totals: <u>40</u> (A)	<u>200</u> (B)
Prevalence Index = B/A = <u>5.00</u>	

**Hydrophytic Vegetation Indicators:**  
     1 - Rapid Test for Hydrophytic Vegetation  
     2 - Dominance Test is >50%  
     3 - Prevalence Index is ≤3.0<sup>1</sup>  
     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)  
<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Hydrophytic vegetation not present. Shown as Photo # in Appendix D.	<b>Hydrophytic Vegetation Present?</b> Yes <u>    </u> No <u>X</u>
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**SOIL**

Sampling Point: DP-17

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR 3/1	100					Loamy/Clayey	
18-32	10YR 3/4	100					Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Gleyed Matrix (S4)   |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Dark Surface (S7)          |
| <input type="checkbox"/> Stratified Layers (A5)            | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> 2 cm Muck (A10)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <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)     |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks:  
Hydric soil not present.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check 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 X Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes X No \_\_\_\_\_ Depth (inches): 9  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

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

Remarks:  
Hydrology could potentially be influenced by apparent observed tile drainage.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-18  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Field Local relief (concave, convex, none): None  
 Slope (%): 3 Lat: 41.80319 Long: -90.317691 Datum: IA State Plane North  
 Soil Map Unit Name: Aterberry silt loam (351) NWI classification: PEM1A

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 FINDINGS – Attach site map showing sampling point locations, transects, 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"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	--

Remarks:  
 Data point taken in farmed field in an area exhibiting wetland characteristics. Wetland area surrounded by farmed field with corn.

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status															
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</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>100.0%</u> (A/B)														
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
=Total Cover																		
<b>Sapling/Shrub Stratum (Plot size: _____)</b>																		
1. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Total % Cover of:</td> <td style="width:50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>90</u></td> <td>x 1 = <u>90</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>90</u> (A)</td> <td><u>90</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>90</u>	x 1 = <u>90</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FACU species <u>0</u>	x 3 = <u>0</u>	UPL species <u>0</u>	x 4 = <u>0</u>	Column Totals: <u>90</u> (A)	<u>90</u> (B)	Prevalence Index = B/A = <u>1.00</u>	
Total % Cover of:	Multiply by:																	
OBL species <u>90</u>	x 1 = <u>90</u>																	
FACW species <u>0</u>	x 2 = <u>0</u>																	
FACU species <u>0</u>	x 3 = <u>0</u>																	
UPL species <u>0</u>	x 4 = <u>0</u>																	
Column Totals: <u>90</u> (A)	<u>90</u> (B)																	
Prevalence Index = B/A = <u>1.00</u>																		
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
=Total Cover																		
<b>Herb Stratum (Plot size: <u>5</u>)</b>																		
1. <u>Scirpus atrovirens</u>	<u>90</u>	<u>Yes</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
9. _____	_____	_____	_____															
10. _____	_____	_____	_____															
<u>90</u> =Total Cover																		
<b>Woody Vine Stratum (Plot size: _____)</b>																		
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														
2. _____	_____	_____	_____															
=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-18

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-13	10YR 2/1	95	5YR 4/6	5	C	PL	Loamy/Clayey	Prominent redox concentrations
13-32	10YR 3/3	100					Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

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

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

Remarks:  
Hydric soil present.

**HYDROLOGY**

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

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?      Yes <input checked="" type="checkbox"/> No _____      Depth (inches): <u>7</u> Saturation Present?        Yes <input checked="" type="checkbox"/> No _____        Depth (inches): <u>2</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No _____
---	--

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

Remarks:  
Wetland hydrology present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-19  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): None  
 Slope (%): 3 Lat: 41.803351 Long: -90.317563 Datum: IA State Plane North  
 Soil Map Unit Name: Aterberry silt loam (351) 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 X, Soil X, or Hydrology X 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>    </u> No <u>X</u>
Remarks: Data point taken in farmed field.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Zea mays</u>	<u>50</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
6. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
7. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
8. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
9. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
10. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>50</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>0</u>	x 1 = <u>0</u>
FACW species	<u>0</u>	x 2 = <u>0</u>
FACU species	<u>0</u>	x 3 = <u>0</u>
UPL species	<u>50</u>	x 5 = <u>250</u>
Column Totals:	<u>50</u> (A)	<u>250</u> (B)
Prevalence Index = B/A = <u>5.00</u>		

**Hydrophytic Vegetation Indicators:**

     1 - Rapid Test for Hydrophytic Vegetation

     2 - Dominance Test is >50%

     3 - Prevalence Index is ≤3.0<sup>1</sup>

     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes      No X

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation not present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-19

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 (moist)	%	Type <sup>1</sup>		
0-17	10YR 3/1	100				Loamy/Clayey	
17-32	10YR 3/3	100				Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

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

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

Remarks:  
Hydric soil not present.

**HYDROLOGY**

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check 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"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Gauge or Well Data (D9)
	<input type="checkbox"/> Other (Explain in Remarks)

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <u>X</u> Depth (inches): _____ Water Table Present?      Yes _____    No <u>X</u> Depth (inches): _____ Saturation Present?        Yes <u>X</u> No _____    Depth (inches): <u>9</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____    No <u>X</u>
---	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  
Wetland hydrology not present.

Remarks:

**U.S. Army Corps of Engineers**  
**WETLAND DETERMINATION DATA SHEET – Midwest Region**  
 See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

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

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-20  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Drainage Local relief (concave, convex, none): Convex  
 Slope (%): 2 Lat: 41.806642 Long: -90.316781 Datum: IA State Plane North  
 Soil Map Unit Name: Colo silty clay loam (133) NWI classification: PEM1B

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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>    </u>
Hydric Soil Present? Yes <u>X</u> No <u>    </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	

Remarks:  
 Data point taken in drainage area. Wetland and drainage area is adjoining north to a property with an apparent man-made pond, which apparently feeds Wetland Area X.

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</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>100.0%</u> (A/B)																								
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
<u>    </u> = Total Cover				<b>Prevalence Index worksheet:</b> <table border="0"> <tr><td colspan="2">Total % Cover of:</td><td>Multiply by:</td></tr> <tr><td>OBL species</td><td><u>0</u></td><td>x 1 = <u>0</u></td></tr> <tr><td>FACW species</td><td><u>95</u></td><td>x 2 = <u>190</u></td></tr> <tr><td>FAC species</td><td><u>0</u></td><td>x 3 = <u>0</u></td></tr> <tr><td>FACU species</td><td><u>0</u></td><td>x 4 = <u>0</u></td></tr> <tr><td>UPL species</td><td><u>0</u></td><td>x 5 = <u>0</u></td></tr> <tr><td>Column Totals:</td><td><u>95</u> (A)</td><td><u>190</u> (B)</td></tr> <tr><td colspan="2">Prevalence Index = B/A =</td><td><u>2.00</u></td></tr> </table>	Total % Cover of:		Multiply by:	OBL species	<u>0</u>	x 1 = <u>0</u>	FACW species	<u>95</u>	x 2 = <u>190</u>	FAC species	<u>0</u>	x 3 = <u>0</u>	FACU species	<u>0</u>	x 4 = <u>0</u>	UPL species	<u>0</u>	x 5 = <u>0</u>	Column Totals:	<u>95</u> (A)	<u>190</u> (B)	Prevalence Index = B/A =		<u>2.00</u>
Total % Cover of:		Multiply by:																										
OBL species	<u>0</u>	x 1 = <u>0</u>																										
FACW species	<u>95</u>	x 2 = <u>190</u>																										
FAC species	<u>0</u>	x 3 = <u>0</u>																										
FACU species	<u>0</u>	x 4 = <u>0</u>																										
UPL species	<u>0</u>	x 5 = <u>0</u>																										
Column Totals:	<u>95</u> (A)	<u>190</u> (B)																										
Prevalence Index = B/A =		<u>2.00</u>																										
<u>Sapling/Shrub Stratum</u> (Plot size: <u>    </u> )	<u>    </u>	<u>    </u>	<u>    </u>																									
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
<u>    </u> = Total Cover																												
<u>Herb Stratum</u> (Plot size: <u>5</u> )	<u>    </u>	<u>    </u>	<u>    </u>	<b>Hydrophytic Vegetation Indicators:</b> <u>    </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <u>    </u> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <u>    </u> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																								
1. <u>Phalaris arundinacea</u>	<u>95</u>	<u>Yes</u>	<u>FACW</u>																									
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
6. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
7. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
8. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
9. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
10. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
<u>95</u> = Total Cover																												
<u>Woody Vine Stratum</u> (Plot size: <u>    </u> )	<u>    </u>	<u>    </u>	<u>    </u>	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>    </u>																								
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>																									
<u>    </u> = Total Cover																												

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-20

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-11	10YR 2/1	90	5YR 4/6	10	C	PL	Loamy/Clayey	Prominent redox concentrations
11-32								

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:  
Hydric soil present.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check 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 checked="" type="checkbox"/> High Water Table (A2)          | <input checked="" type="checkbox"/> Aquatic Fauna (B13)             | <input checked="" type="checkbox"/> Drainage Patterns (B10)        |
| <input checked="" 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 checked="" 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 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  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): 4  
 Saturation Present? Yes  No  Depth (inches): 1  
 (includes capillary fringe)

Wetland Hydrology Present? Yes  No

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

Remarks:  
Wetland hydrology present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-21  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Field Local relief (concave, convex, none): None  
 Slope (%): 2 Lat: 41.80662 Long: -90.316619 Datum: IA State Plane North  
 Soil Map Unit Name: Colo silty clay loam (133) 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 X, Soil X, or Hydrology X 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>    </u> No <u>X</u>
Remarks: Data point taken in farmed field.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Zea mays</u>	<u>60</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
6. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
7. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
8. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
9. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
10. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>60</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> = Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>0</u>	x 1 = <u>0</u>
FACW species	<u>0</u>	x 2 = <u>0</u>
FACU species	<u>0</u>	x 3 = <u>0</u>
UPL species	<u>60</u>	x 5 = <u>300</u>
Column Totals:	<u>60</u> (A)	<u>300</u> (B)
Prevalence Index = B/A = <u>5.00</u>		

**Hydrophytic Vegetation Indicators:**

     1 - Rapid Test for Hydrophytic Vegetation

     2 - Dominance Test is >50%

     3 - Prevalence Index is ≤3.0<sup>1</sup>

     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes      No X

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation not present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-21

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 (moist)	%	Type <sup>1</sup>		
0-11	10YR 3/1	100				Loamy/Clayey	
11-32	10YR 4/3	100				Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Gleyed Matrix (S4)   |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Dark Surface (S7)          |
| <input type="checkbox"/> Stratified Layers (A5)            | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> 2 cm Muck (A10)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <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)     |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks:  
Hydric soil not present.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check 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 X Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_  
 Saturation Present? Yes X No \_\_\_\_\_ Depth (inches): 15  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

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

Remarks:

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-22  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Flats Local relief (concave, convex, none): None  
 Slope (%): 1 Lat: 41.810476 Long: -90.326127 Datum: IA State Plane North  
 Soil Map Unit Name: Shandep clay loam (2153) NWI classification: PEM1B

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 FINDINGS – Attach site map showing sampling point locations, transects, 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:  
 Data point taken in convex area adjoining farmed field. Appears to be former location of homestead.

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ =Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ =Total Cover				
Herb Stratum (Plot size: <u>5</u> )				
1. <u>Phalaris arundinacea</u>	55	Yes	FACW	
2. <u>Scirpus atrovirens</u>	35	Yes	OBL	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
90 =Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ =Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	35	x 1 = 35
FACW species	55	x 2 = 110
FAC species	0	x 3 = 0
FACU species	0	x 4 = 0
UPL species	0	x 5 = 0
Column Totals:	<u>90</u> (A)	<u>145</u> (B)
Prevalence Index = B/A = <u>1.61</u>		

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators 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.)  
 Hydrophytic vegetation present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-22

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 2/1	93	5YR 4/6	7	C	PL	Loamy/Clayey	Prominent redox concentrations
10-32								

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:  
Hydric soil present.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check 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 checked="" type="checkbox"/> High Water Table (A2)          | <input type="checkbox"/> Aquatic Fauna (B13)                        | <input type="checkbox"/> Drainage Patterns (B10)                              |
| <input checked="" 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 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  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): 9  
 Saturation Present? Yes  No  Depth (inches): 1  
 (includes capillary fringe)

Wetland Hydrology Present? Yes  No

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

Remarks:  
Wetland hydrology present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-23  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Field Local relief (concave, convex, none): None  
 Slope (%): 1 Lat: 41.810513 Long: -90.326359 Datum: IA State Plane North  
 Soil Map Unit Name: Shandep clay loam (2153) 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input 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"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

Remarks:  
 Taken between Wetland Area X and farmed field.

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Poa pratensis</u>	<u>90</u>	<u>Yes</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
<u>90</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>0</u>	x 1 = <u>0</u>
FACW species	<u>0</u>	x 2 = <u>0</u>
FAC species	<u>90</u>	x 3 = <u>270</u>
FACU species	<u>0</u>	x 4 = <u>0</u>
UPL species	<u>0</u>	x 5 = <u>0</u>
Column Totals:	<u>90</u> (A)	<u>270</u> (B)
Prevalence Index = B/A = <u>3.00</u>		

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators 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.)  
 Hydrophytic vegetation present.

**SOIL**

Sampling Point: DP-23

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 (moist)	%	Type <sup>1</sup>		
0-11	10YR 3/2	100				Loamy/Clayey	
11-32	10YR 4/4	100				Loamy/Clayey	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

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

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

Remarks:  
Hydric soils not present.

**HYDROLOGY**

Wetland Hydrology Indicators:	Primary Indicators (minimum of one is required; check 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 checked="" 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)	

<b>Field Observations:</b> Surface Water Present?    Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present?      Yes <u>X</u> No _____    Depth (inches): <u>24</u> Saturation Present?        Yes <u>X</u> No _____    Depth (inches): <u>11</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes _____ No <u>X</u>
---	---

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

Remarks:  
Wetland hydrology not present.

Project/Site: Lincolnway Industrial Rail and Air City/County: Clinton Sampling Date: 4/14/22  
 Applicant/Owner: Clinton Regional Development Corporation State: IA Sampling Point: DP-24  
 Investigator(s): Jordan Smith Section, Township, Range: S24 T81N R06E  
 Landform (hillside, terrace, etc.): Farmed field Local relief (concave, convex, none): None  
 Slope (%): 2 Lat: 41.807594 Long: -90.3364 Datum: IA State Plane North  
 Soil Map Unit Name: Dinsdale silt loam (377B) 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 X, Soil X, or Hydrology X 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 FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>X</u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No <u>    </u>
Remarks: Data point taken in farmed field.	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> =Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> =Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Zea mays</u>	<u>60</u>	<u>Yes</u>	<u>UPL</u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
3. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
4. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
5. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
6. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
7. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
8. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
9. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
10. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>60</u> =Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>    </u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
2. <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	
<u>    </u> =Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**

	Total % Cover of:	Multiply by:
OBL species	<u>0</u>	x 1 = <u>0</u>
FACW species	<u>0</u>	x 2 = <u>0</u>
FACU species	<u>0</u>	x 3 = <u>0</u>
UPL species	<u>60</u>	x 5 = <u>300</u>
Column Totals:	<u>60</u> (A)	<u>300</u> (B)
Prevalence Index = B/A = <u>5.00</u>		

**Hydrophytic Vegetation Indicators:**

     1 - Rapid Test for Hydrophytic Vegetation

     2 - Dominance Test is >50%

     3 - Prevalence Index is ≤3.0<sup>1</sup>

     4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

     Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Hydrophytic Vegetation Present?** Yes      No X

Remarks: (Include photo numbers here or on a separate sheet.)  
 Hydrophytic vegetation not present. Shown as Photo # in Appendix D.

**SOIL**

Sampling Point: DP-24

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 (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-15	10YR 3/1	100					Loamy/Clayey	
15-32	10YR 4/2	100					Sandy	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Gleyed Matrix (S4)   |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Dark Surface (S7)          |
| <input type="checkbox"/> Stratified Layers (A5)            | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> 2 cm Muck (A10)                   | <input type="checkbox"/> Loamy Gleyed Matrix (F2)   |
| <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)     |

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16)
- Iron-Manganese Masses (F12)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks:  
Hydric soil not present.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check 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 checked="" 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 X Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes X No \_\_\_\_\_ Depth (inches): 24  
 Saturation Present? Yes X No \_\_\_\_\_ Depth (inches): 10  
 (includes capillary fringe)

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

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

Remarks:  
Wetland hydrology not present.

**APPENDIX E**  
**Photographic Documentation**



**Photo 1:** View looking north at Wetland Area 1 and DP-1.



**Photo 2:** View looking north at upland area of Wetland Area 1, Drainage 1 and DP-2.



**Photo 3:** View looking east at Wetland Area 10, Drainage 1 and DP-3.



**Photo 4:** View of upland area associated with Wetland Area 10 looking at DP-4

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**Photo 5:** View looking east at DP-5 and start of Drainage 3.



**Photo 6:** View looking west at Wetland Area 3 and DP-6.



**Photo 7:** View looking east at DP-7.



**Photo 8:** View looking south at Wetland Area 4 and DP-8.



**Photo 9:** View looking north at DP-9.



**Photo 10:** View looking west at Wetland Area 4 and DP-10.

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**Photo 11:** View looking west at DP-11.



**Photo 12:** View looking north at DP-12 and Wetland Area 4.



**Photo 13:**



**Photo 14:** View looking north at Wetland Area 5 and DP-14.



**Photo 15:** View looking north at former railbed and DP-15.



**Photo 16:** View looking north at Wetland Area 6, Drainage 5 and DP-16.



**Photo 17:** View looking south at DP-17.



**Photo 18:** View looking north at Wetland Area 7 and DP-18 dominated by dark-green bulrush.

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**Photo 19:** View looking north at DP-19.



**Photo 20:** View looking north at Wetland Area 8 and DP-20.



**Photo 21:** View looking north at DP-21.



**Photo 22:** View looking north at Wetland Area 8 and DP-22.

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**Photo 23:** View looking north at DP-23.



**Photo 24:** View looking north at DP-24



**Photo 25:** Convex area between Wetland Area 4.



**Photo 26:** View looking at concrete culvert on south end of Wetland Area 6 under 21<sup>st</sup> Street.

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**Photo 27:** View looking at crayfish burrow along Wetland Area 6.



**Photo 28:** View looking northeast at Wetland Area 7.



**Photo 29:** View of south end of Wetland Area 8 and adjoining off-site south pond system connecting Wetland Areas 6 and 8.



**Photo 30:** View looking north at Wetland Area 9.