Wetland Delineation Report

Rock Island I-280 / IL-92 Site Assessment
Rock Island, IL | Conducted: July 10, 2024

Prepared For:
City of Rock Island
1528 3rd Ave
Rock Island, IL 61201

Shive-Hattery Project Number: 2132305350

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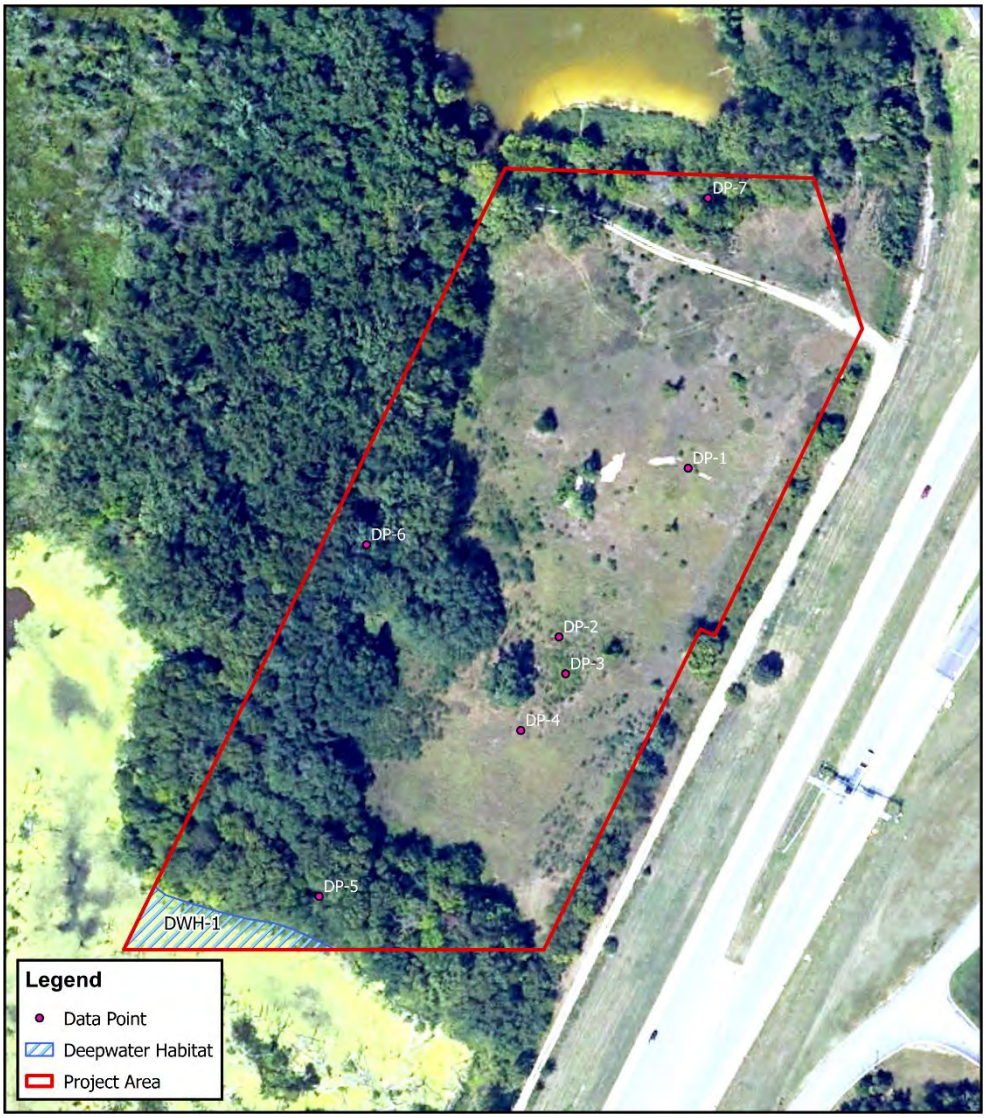
Executive Summary

The purpose of performing a wetland delineation was to evaluate the presence or absence of wetlands or Waters of the United States (WOTUS), identify any wetlands that could be impacted by the project area, and delineate upper boundaries of potentially jurisdictional wetlands in the project area. Shive-Hattery reviewed map and aerial photograph resources, performed a pedestrian survey of the project area to delineate upper boundaries of wetlands and other potential WOTUS, and prepared a wetland delineation report.

In accordance with the field procedures outlined in this report, wetlands, drainages, and other potential WOTUS were identified within the project area. One (1) area of deepwater habitat was identified that may be under jurisdiction of the United States Army Corps of Engineers (USACE). Final determination of the limit of WOTUS, including wetlands, for permitting purposes rests with the USACE. If wetland or WOTUS impacts are proposed, a color version of this report should be submitted to the USACE for approval of the findings contained within this report and for final authorization of activities in WOTUS.



1.0 Introduction

Shive-Hattery was contracted by the City of Rock Island to complete a wetland delineation within the project bounds of the proposed Rock Island I-280 / IL-92 Site Assessment project (project area). The project area covers approximately 10 acres and is situated in Section 16 of Township 17 North, Range 2 West in Rock Island County, Illinois (Figure 1: Project Area Location). The project area consists of multiple properties. The project area is bordered by forested floodplain to the west, Bally's Quad Cities Casino & Hotel to the east, US Interstate 280 to the north, and additional forested floodplain to the south. The wetland delineation of the project area was performed on July 10th, 2024.

1.1 Purpose of Work

The purpose of performing a wetland delineation for the project area was to evaluate the presence or absence of wetlands, identify any wetlands that could be impacted by the project area, and delineate upper boundaries of potentially jurisdictional wetlands in the project area. Waters of the United States (WOTUS), which include lakes, ponds, rivers, and streams, were also included in the delineation.

This report is used by the United States Army Corps of Engineers (USACE) and the Illinois Department of Natural Resources (Illinois DNR). The USACE has discretion to use this report to make jurisdictional determinations and enforce Section 404 of the Clean Water Act. The Illinois DNR uses this report to enforce Section 401 of the Clean Water Act.

The information and recommendations presented in this report are professional opinions based on visual observation, review of available data, and interpretation of available public records. The opinions and recommendations presented apply to the subject property at the time of the Shive-Hattery, Inc. investigation.

1.2 Scope of Work

Shive-Hattery performed the following tasks as the scope of work for this delineation:

- Reviewed several map and aerial photograph resources to assist with identifying potential wetland areas and other WOTUS in the project area.
- Performed pedestrian survey of project area to delineate upper boundaries of wetland and other potential WOTUS.
- Prepared a wetland delineation map of project area showing boundaries of wetlands and other potential WOTUS found during the pedestrian survey, if any.
- Completed a wetland delineation report.

2.0 Background

Prior to field investigations, several map and aerial photograph resources were reviewed to assist with identifying wetland areas and other WOTUS in the project area. Each source of information included as part of this investigation is described below.

2.1 USGS Topographic Maps and LiDAR Data

The United States Geological Survey (USGS) 7.5-Minute Topographic Map (Figure 2: USGS Topographic Map) includes towns, roads, streams, landmark features, contour lines, general delineation of wet areas, drainage, and general land uses (U.S. Geological Survey, 2024). This was used to identify drainages or potential WOTUS within the project area. Figure 2: USGS Topographic Map shows the project area is dominated by flat topography near the edge of mapped wetland features. A roadway network is immediately adjacent to the eastern boundary of the project area. No other features of interest are mapped within the project area.

In addition, Light Detection and Ranging (LiDAR) 2-foot contours were obtained to assess the drainage of the survey area (Figure 3: LiDAR 2-Foot Contour Map).

2.2 Hillshade Map

The Hillshade Map of the project area was reviewed to assist in locating low-lying areas (Illinois University, 2024). The Hillshade Map uses LiDAR data to depict approximate topography of a site with color ramping. As shown in Figure 4: Hillshade Map, the site consists mostly of flat topography. A depressional area of low-lying ground is found in the southwest corner of the project area.

2.3 National Wetland Inventory

The National Wetlands Inventory (NWI) maps are produced at a scale of 1:24,000 (U.S. Fish and Wildlife Service, 2024). Wetlands on NWI maps are classified in accordance with Cowardin et al. (1979) and depict probable wetland areas based on stereoscopic analysis of high-altitude aerial photographs. The NWI map was reviewed to identify potential wetland areas located on the project site. As shown in Figure 5: National Wetlands Inventory, the following wetland areas were identified in the project area:

- PFO1C: Palustrine, Forested, Broad-Leaved Deciduous, Seasonally Flooded

2.4 USDA Soil Survey

The Rock Island County Soil Survey provided by the United States Department of Agriculture (USDA) was used to identify the hydric soils in the project area (Natural Resources Conservation Service, 2024). As shown in Figure 6: NRCS Soil Survey Data, three (3) soils with hydric components are indicated in the project area. The Soil Map Unit, Soil Description, and Hydric Soil Rating status for the soils of the project area are listed in **Table 1**.

Table 1: Soil Map Units and Descriptions

Soil Map Unit	Description	Hydric Soil
87A	Dickinson sandy loam, 0 to 2 percent slopes	No
88A	Sparta loamy sand, Illinois till plain, 0 to 2 percent slopes	No
727A	Waukee loam, 0 to 2 percent slopes	No
1107A	Sawmill silty clay loam, undrained, 0 to 2 percent slopes, frequently flooded	Yes
3082A	Millington silt loam, 0 to 2 percent slopes, frequently flooded	Yes
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded	Yes

2.5 Climate Data

An evaluation of the antecedent precipitation and climate conditions for the project area was conducted using multiple sources of available data.

2.5.1 Current Climate Data

Weather condition during the wetland delineation on July 10, 2024, was sunny at approximately 86° Fahrenheit (F) with winds blowing from the southeast at approximately 7 mph. The area received 0.12 inches of rain the week prior to the wetland delineation (Weather Underground, 2024).[1]

Current climate data was obtained from the NRCS Field Office Technical Guide (FOTG) website for ROCK ISLAND L&D 15, IL (Natural Resource Conservation Service, 2024). The average

[1] https://www.wunderground.com/history/

temperature in June, the month prior to delineation, was 75.5° F. Total precipitation recorded in June 2024 was 3.36 inches, as shown in **Table 2**. The average temperature in July 2024, the days prior to the delineation, was 70.9° F. Total precipitation recorded in July 2024, the days before delineation, was 1.49 inches, as shown in **Table 3**.

Table 2: Climatological Data for ROCK ISLAND L&D 15, IL – JUNE 2024

Date	Max Temperature	Min Temperature	Avg Temperature	GDD Base 40	GDD Base 50	Precipitation
2024-06-01	69	60	64.5	25	15	0.36
2024-06-02	82	56	69	29	19	0
2024-06-03	89	58	73.5	34	24	0
2024-06-04	83	71	77	37	27	0.04
2024-06-05	82	63	72.5	33	23	0.14
2024-06-06	79	65	72	32	22	0
2024-06-07	81	63	72	32	22	0
2024-06-08	75	63	69	29	19	T
2024-06-09	82	M	M	M	M	0
2024-06-10	74	56	65	25	15	0
2024-06-11	82	53	67.5	28	18	0
2024-06-12	91	67	79	39	29	0
2024-06-13	90	72	81	41	31	0.07
2024-06-14	M	M	M	M	M	0
2024-06-15	87	65	76	36	26	0
2024-06-16	89	72	80.5	41	31	0.21
2024-06-17	94	74	84	44	34	0
2024-06-18	92	74	83	43	33	0
2024-06-19	92	74	83	43	33	0
2024-06-20	88	72	80	40	30	0.12
2024-06-21	92	74	83	43	33	0
2024-06-22	91	71	81	41	31	0.05
2024-06-23	84	70	77	37	27	0
2024-06-24	90	70	80	40	30	0
2024-06-25	89	71	80	40	30	1.65
2024-06-26	87	64	75.5	36	26	0
2024-06-27	79	64	71.5	32	22	0
2024-06-28	79	61	70	30	20	0.72
2024-06-29	86	M	M	M	M	0
2024-06-30	85	60	72.5	33	23	0
Average|Sum	**84.9**	**66**	**75.5**	**963**	**693**	**3.36**

Data generated by ACIS – NOAA Regional Climate Centers

** DAILY DATA FOR A MONTH - daily maximum, minimum, and average temperature (degrees Fahrenheit), base 40 and base 50 growing degree days (GDD), and precipitation (measured in inches) for all days of the selected month. Basic monthly summary statistics are also provided. Values of 'M' indicate missing data, values of 'T' indicate a trace, values of 'A' indicate accumulated amount, and values of 'S' indicate precipitation for the amount is continuing to be accumulated.*

Table 3: Climatological Data for ROCK ISLAND L&D 15, IL – JULY 2024

Date	Max Temperature	Min Temperature	Avg Temperature	GDD Base 40	GDD Base 50	Precipitation
2024-07-01	85	56	70.5	31	21	0
2024-07-02	85	56	70.5	31	21	1.35
2024-07-03	85	56	70.5	31	21	0.02
2024-07-04	79	68	73.5	34	24	0
2024-07-05	72	64	68	28	18	0.06
2024-07-06	77	62	69.5	30	20	0
2024-07-07	M	M	M	M	M	0
2024-07-08	80	65	72.5	33	23	0.01
2024-07-09	75	67	71	31	21	0
2024-07-10	80	65	72.5	33	23	0.05
Average|Sum	**79.8**	**62.1**	**70.9**	**282**	**192**	**1.49**

Data generated by ACIS – NOAA Regional Climate Centers

** DAILY DATA FOR A MONTH - daily maximum, minimum, and average temperature (degrees Fahrenheit), base 40 and base 50 growing degree days (GDD), and precipitation (measured in inches) for all days of the selected month. Basic monthly summary statistics are also provided. Values of 'M' indicate missing data, values of 'T' indicate a trace, values of 'A' indicate accumulated amount, and values of 'S' indicate precipitation for the amount is continuing to be accumulated.*

2.5.2 Historic Climate Data

Shive-Hattery conducted a historic climate review of the project area to define the normal range for monthly precipitation and growing season length. The Field Office Technical Guide (FOTG) website was used to prepare a historic Climate Analysis for Wetlands (WETS) table of the project area, as shown in **Table 4** (Natural Resource Conservation Service, 2024). FOTG WETS analysis allows for calculation of the growing season limits and "normal" monthly and annual precipitation based on 30-years of accumulated temperature and rainfall records. Shive-Hattery compared this historic climate data with current climate data to evaluate whether the site was drier than normal, normal, or wetter than normal during the month prior to the wetland delineation site visit. This review utilized WETS data from the Quincy, Illinois gauging station. According to this table, the amount of precipitation was drier than normal in the month prior to the site visit.

According to the WETS table for the gauging station located at Rock Island, Illinois, the growing season begins approximately on April 4, 2024, and ends on November 7, 2024, a 217-day growing season length. Based on this information, the wetland delineation was conducted within the growing season. A copy of the growing season evaluation has not been included with this report but is available upon request.

Table 4: WETS Table Data for ROCK ISLAND L&D 15, IL

Month	Temperature (°F)			Precipitation			
	Avg Daily Max	Avg Daily Min	Avg Daily Mean	Avg	30% Chance Will Have		Avg number of days with 0.10 inch or more
					less than	more than	
Jan	31.4	16.1	23.8	1.52	0.91	1.84	4
Feb	36.3	19.4	27.8	1.83	1.03	2.23	4
Mar	48.9	30.6	39.7	2.69	1.65	3.25	6
Apr	61.8	41.6	51.7	3.79	2.61	4.51	7
May	72.7	53.3	63	5.16	3.83	6.04	8
Jun	81.9	63.7	72.8	5.28	3.64	6.3	8
Jul	84.5	67.5	76	4	2.58	4.81	6
Aug	83.1	65.8	74.5	4.07	2.27	4.96	6
Seo	77.5	57.9	67.7	3.21	1.82	3.91	5
Oct	64.3	45.7	55	2.93	1.75	3.55	5
Nov	49.8	32.9	41.4	1.96	1.12	2.39	4
Dec	36.9	22.8	29.8	2	1.28	2.4	5
Annual:					34.19	42.35	
Average:	60.8	43.1	51.9	-	-	-	-
Total	-	-	-	38.43			67

Requested years: 1993-2023

3.0 Methodology

The wetland delineation was conducted on July 10, 2024, by Jake Wilson, PWS (Environmental Scientist) of Shive-Hattery during a pedestrian field survey using the Routine On-Site Determination Method as defined in the *1987 Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory, 1987; referred to as '87 Manual) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region [Version 2.0]* (U.S. Army Corps of Engineers, 2010; referred to as Regional Supplement). Wetlands are defined by the USACE and the Environmental Protection Agency (EPA) as:

"Those areas that are inundated or saturated by surface or groundwater 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." (Environmental Laboratory, 1987).

Under normal conditions, if one or more of the wetland criteria are not identified, the area was not considered a wetland. If all three wetland indicators were identified, the area was classified a wetland. Additional observations were made throughout the wetland areas to define the wetland/non-wetland boundary, which was mapped with GPS technology. Vegetation, soil, and hydrology assessment data from at least one location within each wetland and the characteristics of one upland location outside of the wetlands were recorded on a USACE Wetland Determination Form. Data forms for this wetland delineation are enclosed in Appendix C and the data point locations are shown in Figure 7.

3.1 Plant Community Assessment

The project area was visually assessed to determine plant species and absolute ground cover percentage of four plant community stratums including tree, sapling/shrub, herbaceous, and woody vine. The vegetation for each stratum was identified using various plant identification guides.

Each dominant species of observed vegetation was assessed for its wetland indicator status. Indicator status was assessed using the USDA *The PLANTS Database* (USDA, Natural Resources Conservation Service, 2021) and the *National List of Plant Species that Occur in Wetlands – Region 3* (Reed, 1988). The indicator status for vegetation are:

- Obligate Wetland (OBL) – occurs almost always (estimated probability greater than 99%) under natural conditions in wetlands.
- Facultative Wetland (FACW) – usually occur in wetland (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 occurs in wetlands but occur almost always (estimated probability greater than 99%) under natural conditions in non-wetlands.

3.2 Hydric Soil Assessment

Subsurface soil samples were collected to a depth of approximately 24 inches. These samples were assessed using Munsell Soil Color Charts (Munsell Color, 2009). The soil samples were also evaluated for hydric soil indicators listed on the USACE Midwest Region Wetland Determination Data Form. The soil was considered hydric if the appropriate hydric indicators were observed in the subsurface soil sample.

3.3 Wetland Hydrology Assessment

Potential wetland areas were visually assessed for wetland hydrology indicators. To be considered having wetland hydrology, an area had to have one (1) primary or two (2) secondary indicators present.

Wetland boundaries were surveyed using a Trimble R1 sub-meter GNSS receiver unit. All data form sample points were also surveyed (Figure 7).

4.0 Wetland Delineation Findings

Field investigations were performed on July 10, 2024, by Shive-Hattery to identify potential WOTUS, including wetlands. One (1) deepwater habitat area was delineated within the project area: DWH-1. A summary of characteristics for the area is provided in the following table. The attached data forms (Appendix D) document additional detail on the dominant plant species, results of the soil sampling, and hydrology observations for each sample point. Additional photographs are provided in Appendix A.

4.1 Deepwater Habitat (DWH-1)

Waterbody Description	
ID	DWH-1
Size	0.20 acres
Name of Water Body	NA
WOTUS Type	Pond – Natural, backwater of Mississippi River
Cowardin Classification	PUB3H: Palustrine, Unconsolidated Bottom, Mud, Permanently Flooded
Water Description	Clear. No smell observed.
NWI	PFO1C
Aquatic Organisms	None observed
Other Information	This pond is a backwater of the Mississippi River. At the time of delineation, the Mississippi River was in a flood condition; however, this pond is persistent year-round.

Deepwater Habitat (DWH-1) Photos

Photo 1: Looking west at pond from project area entry drive.

Photo 2: Looking south at pond.

5.0 Conclusions and Recommendations

Shive-Hattery has performed a wetland delineation in conformance with the *1987 Corps of Engineers Wetlands Delineation Manual and the Midwest Regional Supplement* of the proposed Rock Island I-280 / IL-92 Site Assessment project located in Rock Island County, Iowa. In accordance with the field procedures outlined in this report, wetlands, drainages, and other potential WOTUS were identified within the project area. One (1) area was identified that may be under the jurisdiction of the USACE.

Discharges of dredged or fill material, excavation, and mechanized land clearing in a WOTUS will require authorization from the USACE. Final determination of the limit of WOTUS, including wetlands, for permitting purposes rests with the USACE. For final authorization of activities in WOTUS, the USACE must approve the findings found within this report. No construction activities should commence prior to receiving wetland boundary approvals and relevant permits or authorization.

6.0 References

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Reed, Porter. 1988. National List of Plant Species That Occur in Wetlands -- North Central (Region 3). National Wetland Inventory, U.S. Department of the Interior, Fish and Wildlife Service, St. Petersburg, FL. 90 pp.

Munsell Color. 2009. Munsell Soil-Color Charts. New Windsor. Grand Rapids, Michigan.

Appendix A - Photographs

Photo 1: Typical upland condition of northern portion of project area.

Photo 2: Typical upland condition of central portion of project area.

Photo 3: Typical condition of upland forest on southern portion of project area.

Photo 4: Typical upland condition of south-central portion of project area. Location of shallow depression that did not meet wetland criteria.

Photo 5: Soil sample taken at upland data point DP-1.

Photo 6: Soil sample taken at upland data point DP-3.

Photo 7: Soil sample taken at upland data point DP-4.

Photo 8: Soil sample taken at upland data point DP-5.

Photo 9: Soil sample taken at upland data point DP-6.

Photo 10: Soil sample taken at upland data point DP-7.

Appendix B - Figures

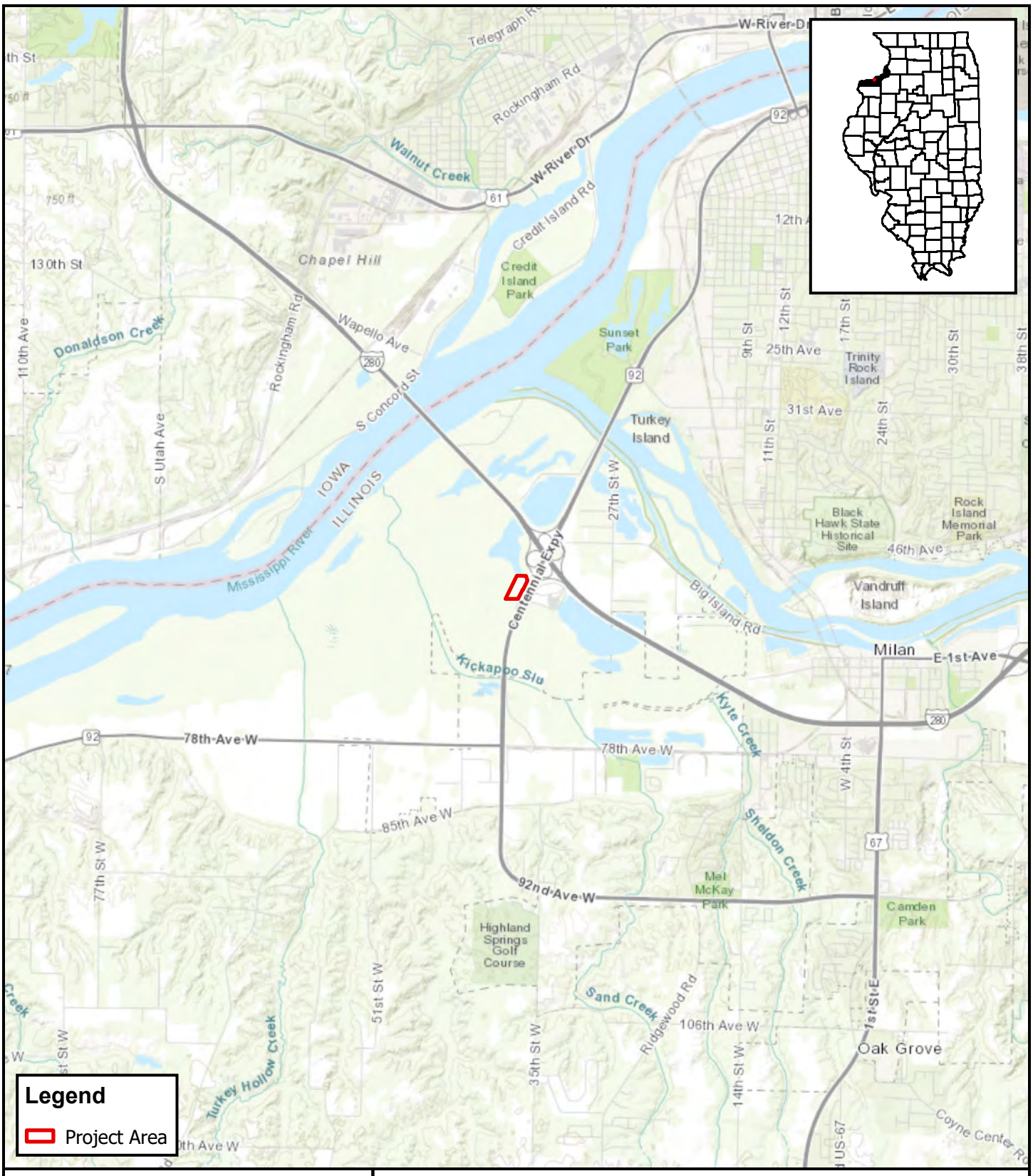

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Figure 1: Project Area Location

Rock Island I-280 / IL-92 Site Assessment
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Data Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kad ster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, OpenStreetMap contributors, and the GIS User Community

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0 100 200 Feet

N

Figure 2: USGS Topographic Map

Rock Island I-280 / IL-92 Site Assessment
Rock Island, IL | Project #2132305350

Data Sources: The National Map - USGS

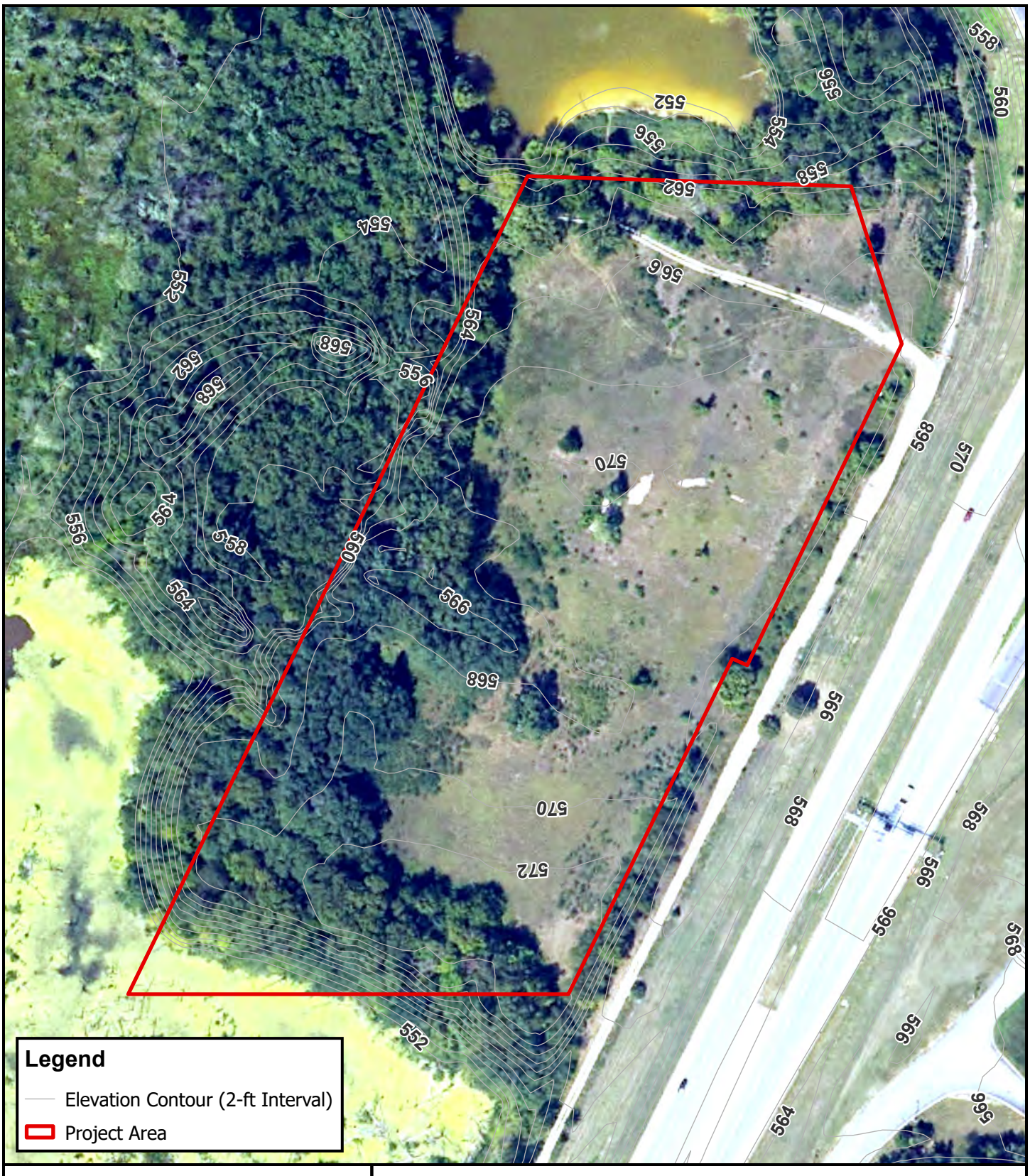

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Figure 3: LiDAR 2-Foot Contour Map

Rock Island I-280 / IL-92 Site Assessment
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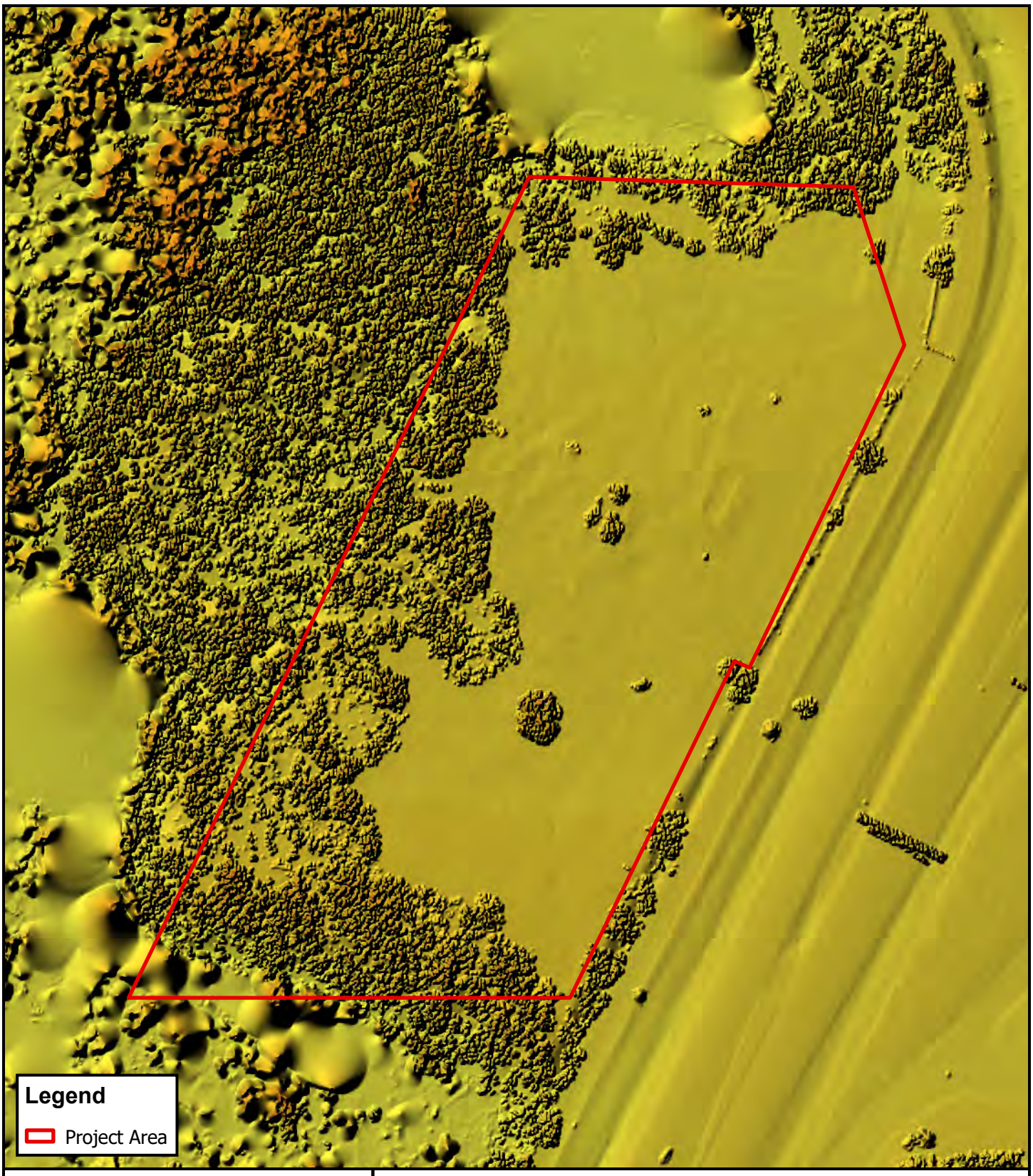
Data Sources: IU Illinois Geographic Map Server



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0 75 150
US Feet

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Figure 4: Hillshade Map

Rock Island I-280 / IL-92 Site Assessment
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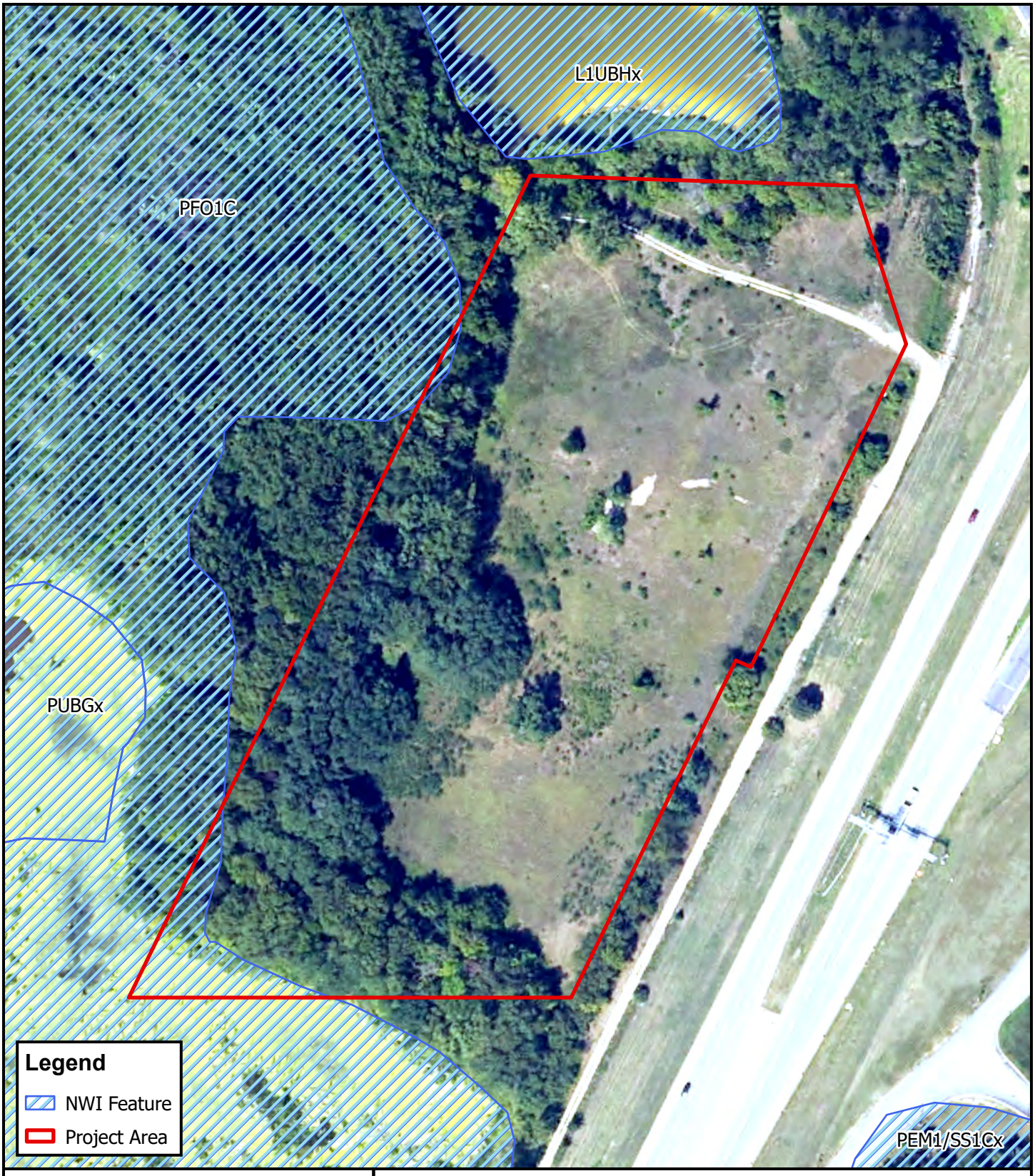
Data Sources: IU Illinois Geographic Map Server



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0 75 150
US Feet

N

Figure 5: National Wetlands Inventory

Rock Island I-280 / IL-92 Site Assessment
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Data Sources: US Fish & Wildlife Service, IU Illinois Geographic Map Server

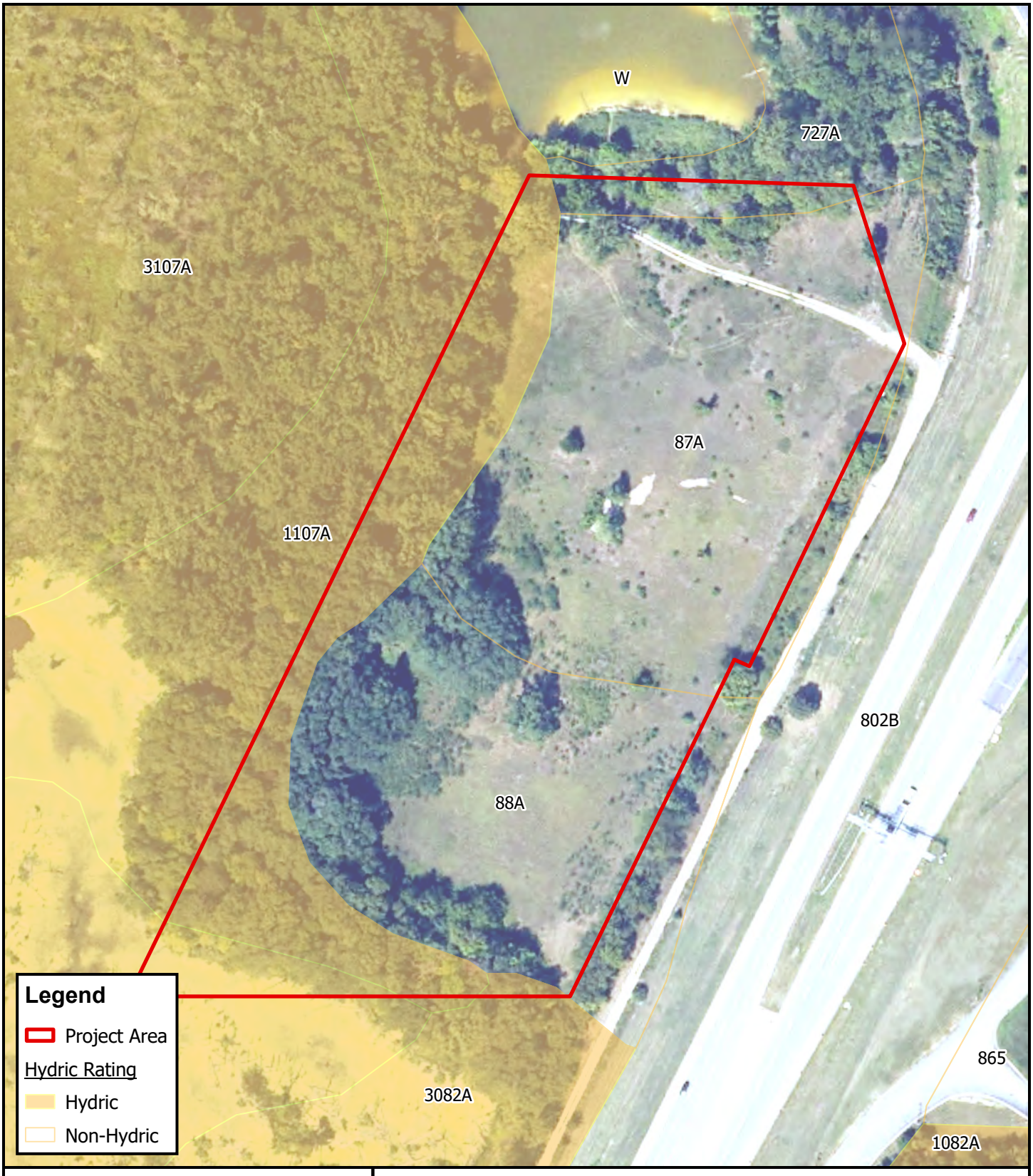

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Figure 6: NRCS Soil Survey Data

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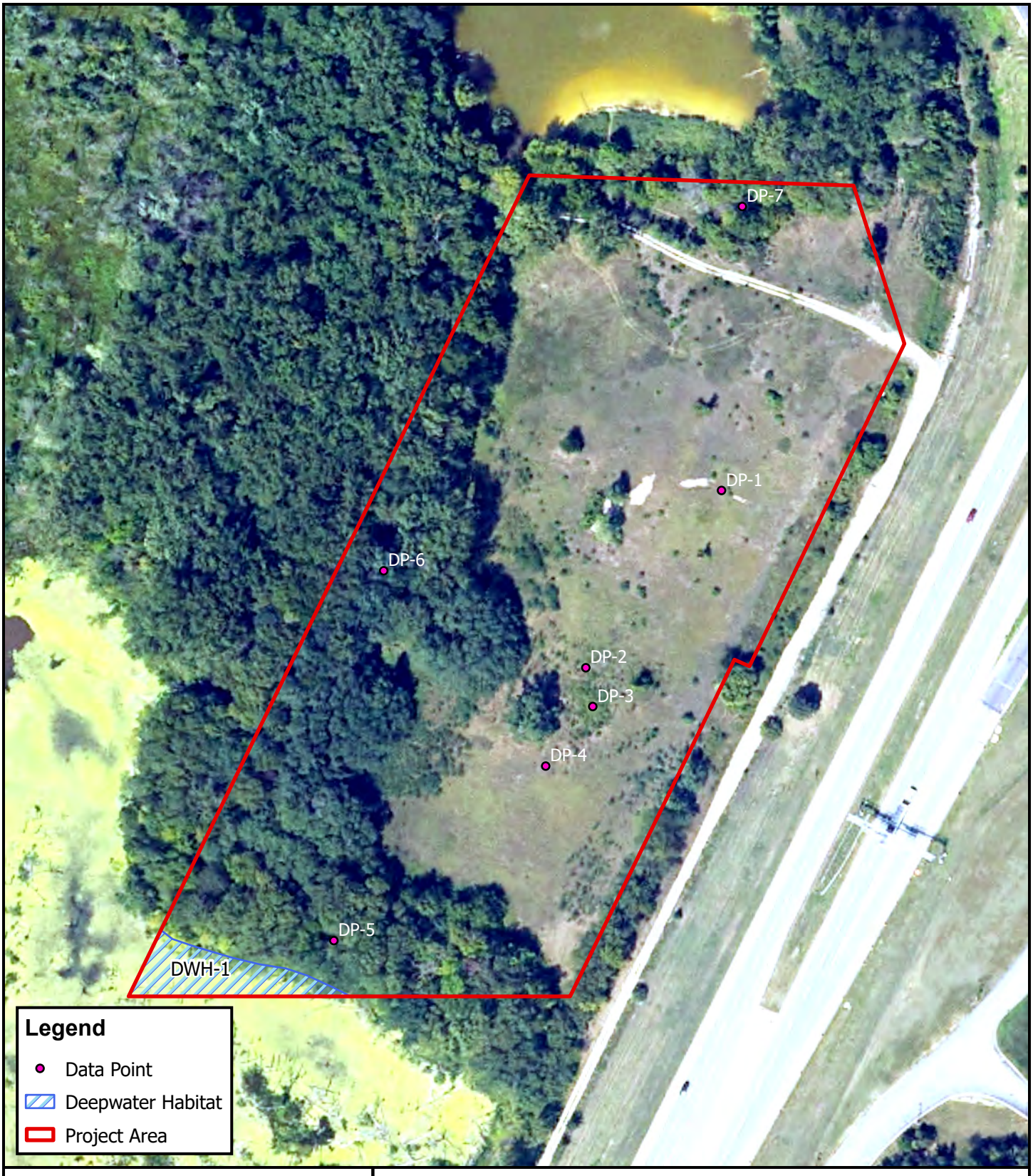
Data Sources: USDA-NRCS, IU Illinois Geographic Map Server



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0 75 150 US Feet

N

Figure 7: Wetland Delineation

Rock Island I-280 / IL-92 Site Assessment
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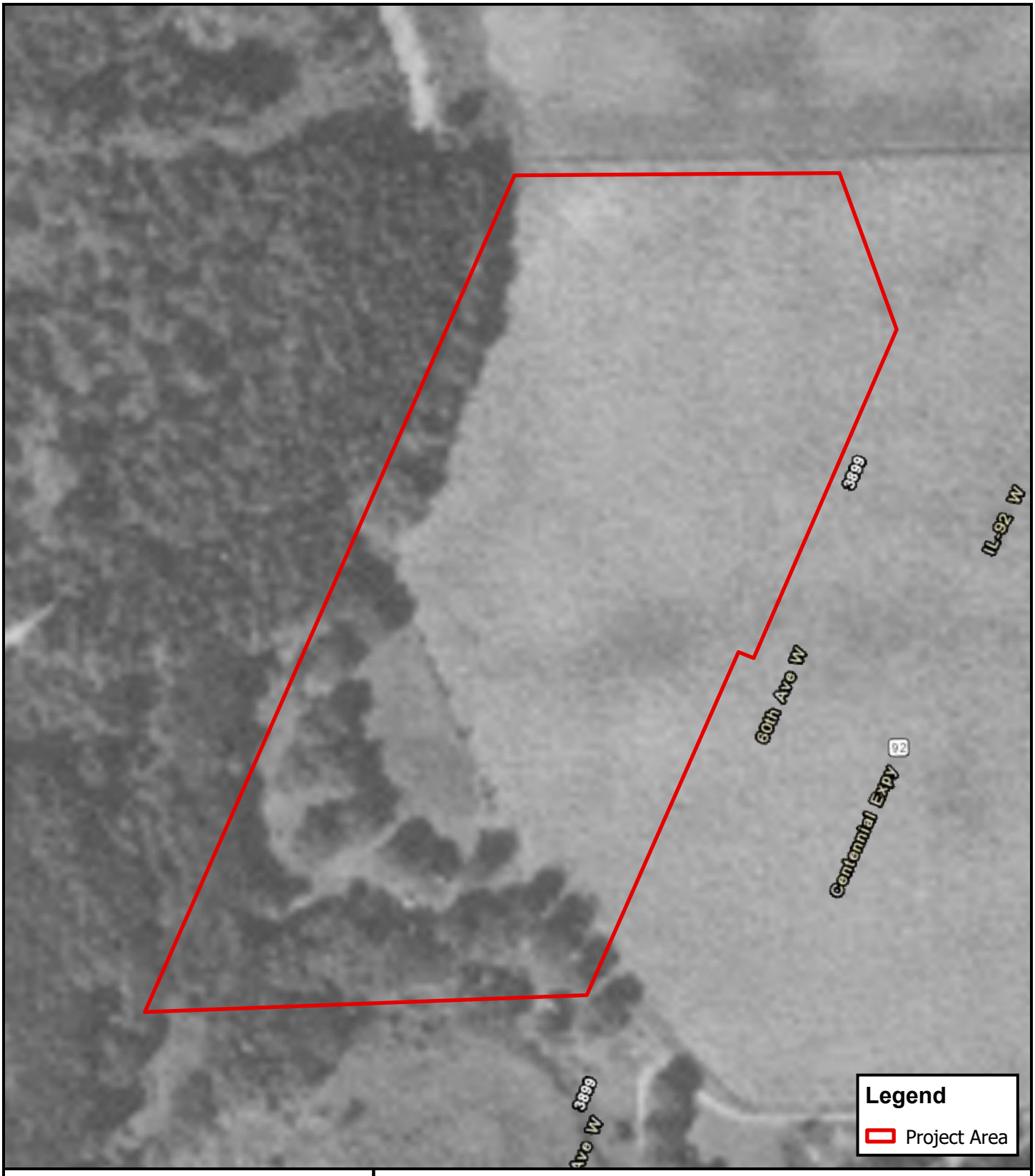
Data Sources: IU Illinois Geographic Map Server

Appendix C – Aerial Imagery Comparison



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0 100 200 Feet

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1930s Aerial Imagery

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Data Sources: ISU Iowa Geographic Map Server

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0 75 150 Feet

N

1990s Aerial Imagery

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Data Sources: ISU Iowa Geographic Map Server

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0 75 150 Feet

N

2004 Aerial Imagery

Rock Island I-280 / IL-92 Site Assessment
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Data Sources: ISU Iowa Geographic Map Server

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2009 Aerial Imagery

Rock Island I-280 / IL-92 Site Assessment
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0 75 150 Feet

N

Data Sources: ISU Iowa Geographic Map Server

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0 75 150 Feet

N

2011 Aerial Imagery

Rock Island I-280 / IL-92 Site Assessment
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Data Sources: ISU Iowa Geographic Map Server

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2013 Aerial Imagery

Rock Island I-280 / IL-92 Site Assessment
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0 75 150 Feet

N

Data Sources: ISU Iowa Geographic Map Server

SHIVEHATTERY
ARCHITECTURE + ENGINEERING

2016 Aerial Imagery

Rock Island I-280 / IL-92 Site Assessment
Rock Island, IL | Project #2132305350

0 75 150 Feet

N

Data Sources: ISU Iowa Geographic Map Server

SHIVEHATTERY
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0 75 150 Feet

N

2019 Aerial Imagery

Rock Island I-280 / IL-92 Site Assessment
Rock Island, IL | Project #2132305350

Data Sources: ISU Iowa Geographic Map Server

SHIVEHATTERY
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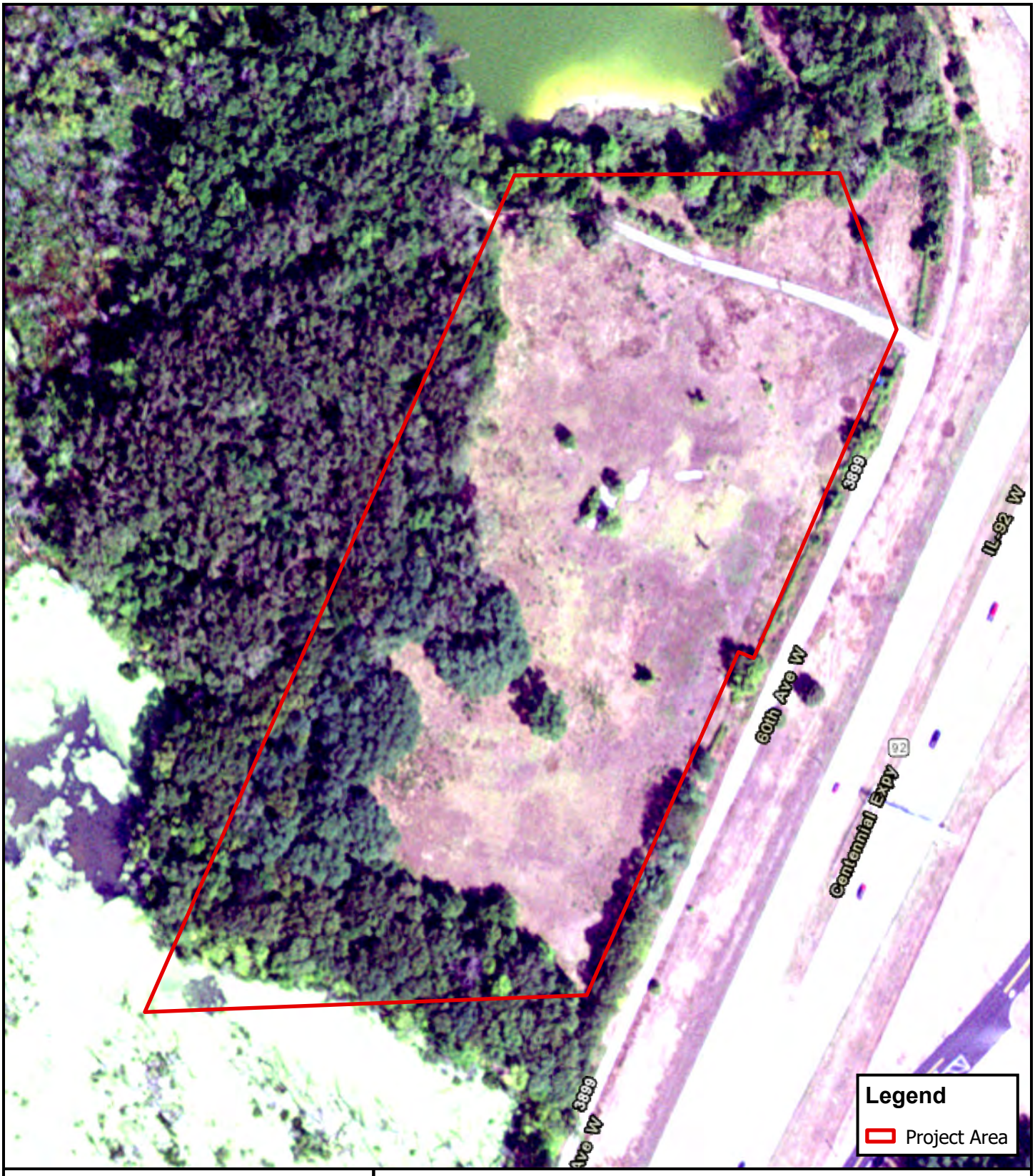
2020 Aerial Imagery

Rock Island I-280 / IL-92 Site Assessment
Rock Island, IL | Project #2132305350

0 75 150 Feet

N

Data Sources: ISU Iowa Geographic Map Server



SHIVEHATTERY
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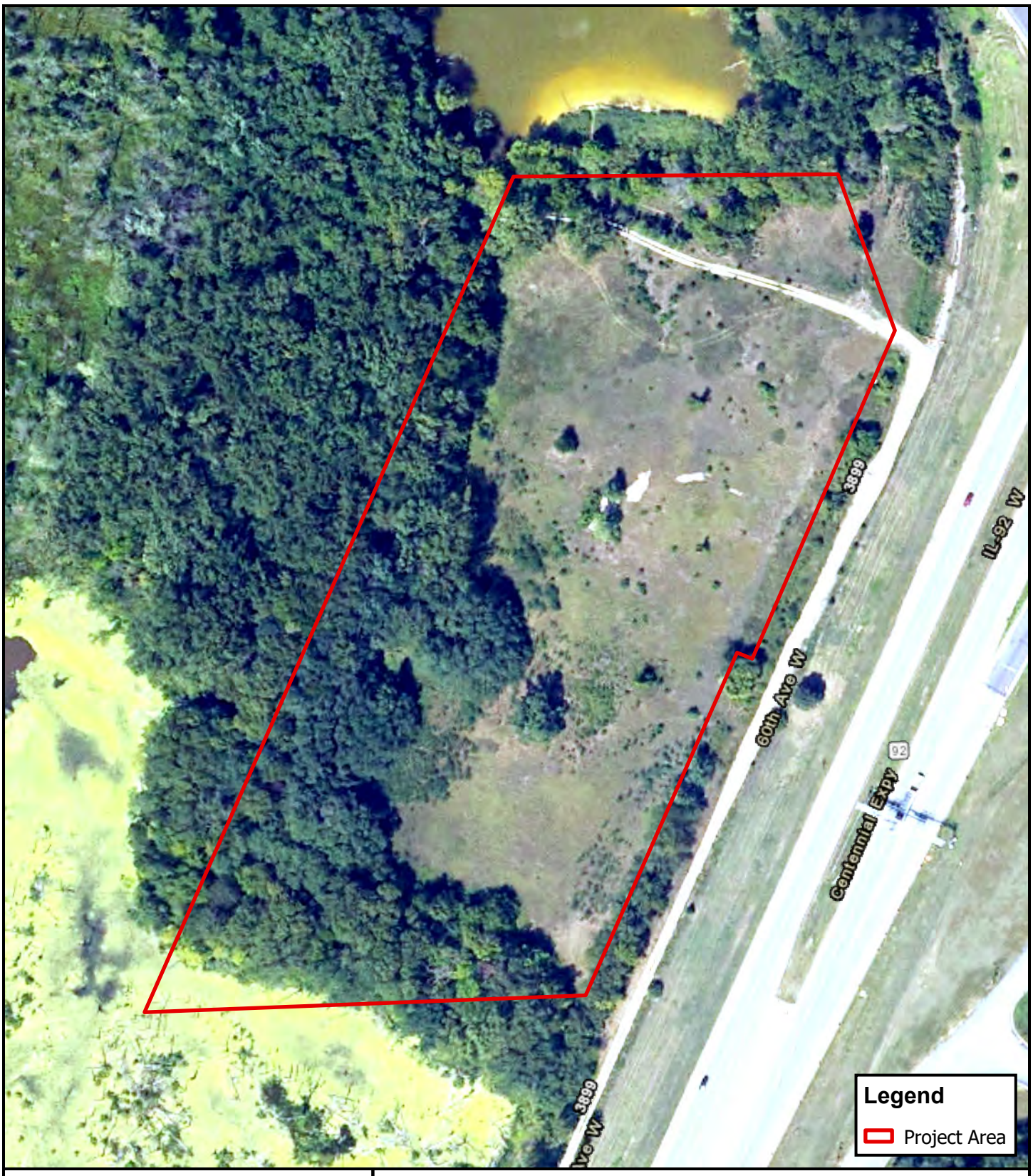
2021 Aerial Imagery

Rock Island I-280 / IL-92 Site Assessment
Rock Island, IL | Project #2132305350

0 75 150 Feet

N

Data Sources: ISU Iowa Geographic Map Server



SHIVEHATTERY
ARCHITECTURE + ENGINEERING

2023 Aerial Imagery

Rock Island I-280 / IL-92 Site Assessment
Rock Island, IL | Project #2132305350

0 75 150 Feet

N

Data Sources: ISU Iowa Geographic Map Server

Appendix D – Wetland Delineation Data Forms

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Rock Island I-280 / IL-92 Site Assessment City/County: Rock Island, Rock Island County Sampling Date: 7/10/2024

Applicant/Owner: City of Rock Island State: IL Sampling Point: DP-1

Investigator(s): Jake Wilson Section, Township, Range: S16 T17N R2W

Landform (hillside, terrace, etc.): Flat Area Local relief (concave, convex, none): None

Slope (%): 1-2% Lat: 90.6178744°W Long: 41.4608069°N Datum: NAD 1983

Soil Map Unit Name: 87A, Dickinson sandy loam NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation N , Soil N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N , Soil N , or Hydrology N 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 X	No ____	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
Herb Stratum (Plot size: 5)			
1. *Poa pratensis*	80	Yes	FAC
2. *Rudbeckia triloba*	20	No	FACU
3. *Solanum dulcamara*	20	No	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	120 =Total Cover		
Woody Vine Stratum (Plot size: 30)			
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	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	100	x 3 =	300
FACU species	20	x 4 =	80
UPL species	0	x 5 =	0
Column Totals:	120 (A)		380 (B)

Prevalence Index = B/A = 3.17

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

____ 3 - Prevalence Index is ≤3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

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

SOIL

Sampling Point: DP-1

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-2	10YR 3/2	100					Loamy/Clayey	
2-9	10YR 2/2	100					Loamy/Clayey	Rock fill material present
9-20	10YR 3/2	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]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[3]:

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

[3]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:
No indicator of hydric soil observed.

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 X	Depth (inches): ___
Water Table Present?	Yes ___	No X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches): ___

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks:
No indicator of hydrology observed.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Rock Island I-280 / IL-92 Site Assessment City/County: Rock Island, Rock Island County Sampling Date: 7/10/2024

Applicant/Owner: City of Rock Island State: IL Sampling Point: DP-2

Investigator(s): Jake Wilson Section, Township, Range: S16 T17N R2W

Landform (hillside, terrace, etc.): Shallow Depression Local relief (concave, convex, none): Concave

Slope (%): 1-2% Lat: 90.6184136°W Long: 41.4602714°N Datum: N/A

Soil Map Unit Name: 87A, Dickinson sandy loam NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation N , Soil N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N , Soil N , or Hydrology N 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 X	No ____	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Slight depression in flat area.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Salix interior*	40	Yes	FACW
2.			
3.			
4.			
5.			
	40 =Total Cover		
Herb Stratum (Plot size: 5)			
1. *Poa pratensis*	80	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	80 =Total Cover		
Woody Vine Stratum (Plot size: 30)			
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	0	x 1 =	0
FACW species	40	x 2 =	80
FAC species	80	x 3 =	240
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	120 (A)		320 (B)

Prevalence Index = B/A = 2.67

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

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

SOIL

Sampling Point: DP-2

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-21	10YR 4/3	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]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[3]:

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

[3]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:

No indicator of hydric soil observed.

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)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ___	No X	Depth (inches): ___
Water Table Present?	Yes ___	No X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

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

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Rock Island I-280 / IL-92 Site Assessment City/County: Rock Island, Rock Island County Sampling Date: 7/10/2024

Applicant/Owner: City of Rock Island State: IL Sampling Point: DP-3

Investigator(s): Jake Wilson Section, Township, Range: S16 T17N R2W

Landform (hillside, terrace, etc.): Shallow Depression Local relief (concave, convex, none): Concave

Slope (%): 1-2% Lat: 90.6183851°W Long: 41.4601548°N Datum: N/A

Soil Map Unit Name: 88A, Sparta loamy sand, Illinois till plain NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation N , Soil N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N , Soil N , or Hydrology N 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 X	No ____	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes X	No ____	

Remarks:
Slight depression in flat area.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	____ =Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Salix interior*	60	Yes	FACW
2. *Ulmus rubra*	20	Yes	FAC
3.			
4.			
5.			
	80 =Total Cover		
Herb Stratum (Plot size: 5)			
1. *Poa pratensis*	90	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	90 =Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
	____ =Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (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	0	x 1 =	0
FACW species	60	x 2 =	120
FAC species	110	x 3 =	330
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	170 (A)		450 (B)
Prevalence Index = B/A =			2.65

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

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

SOIL

Sampling Point: DP-3

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-20	10YR 4/3	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]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[3]:

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

[3]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:

No indicator of hydric soil observed.

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)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes ___ No X Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

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

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Rock Island I-280 / IL-92 Site Assessment City/County: Rock Island, Rock Island County Sampling Date: 7/10/2024

Applicant/Owner: City of Rock Island State: IL Sampling Point: DP-4

Investigator(s): Jake Wilson Section, Township, Range: S16 T17N R2W

Landform (hillside, terrace, etc.): Shallow Depression Local relief (concave, convex, none): Concave

Slope (%): 1-2% Lat: 90.6185722°W Long: 41.4599749°N Datum: N/A

Soil Map Unit Name: 88A, Sparta loamy sand, Illinois till plain NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation N , Soil N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N , Soil N , or Hydrology N 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 X	No ____	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:
Slight depression in flat area.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	____ =Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	____ =Total Cover		
Herb Stratum (Plot size: 5)			
1. *Poa pratensis*	90	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	90 =Total Cover		
Woody Vine Stratum (Plot size: 30)			
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	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	90	x 3 =	270
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	90 (A)		270 (B)

Prevalence Index = B/A = 3.00

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

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

SOIL

Sampling Point: DP-4

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/3	100					Loamy/Clayey	
6-19	10YR 4/3	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]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[3]:

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

[3]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:
No indicator of hydric soil observed.

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)
- X Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ___	No X	Depth (inches): ___
Water Table Present?	Yes ___	No X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches): ___

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks:
No primary indicator of hydrology observed.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Rock Island I-280 / IL-92 Site Assessment | City/County: Rock Island, Rock Island County | Sampling Date: 7/10/2024

Applicant/Owner: City of Rock Island | State: IL | Sampling Point: DP-5

Investigator(s): Jake Wilson | Section, Township, Range: S16 T17N R2W

Landform (hillside, terrace, etc.): Stream Terrace | Local relief (concave, convex, none): None

Slope (%): 2-5% | Lat: 90.6194160°W | Long: 41.4594465°N | Datum: N/A

Soil Map Unit Name: 1107A, Sawmill silty clay loam, undrained, frequently flooded | NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N, Soil N, or Hydrology N 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 X	No ____	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Celtis occidentalis*	50	Yes	FAC
2. *Gymnocladus dioicus*	40	Yes	UPL
3.			
4.			
5.			
	90	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Toxicodendron radicans*	20	Yes	FAC
2.			
3.			
4.			
5.			
	20	=Total Cover	
Herb Stratum (Plot size: 5)			
1. *Viola adunca*	30	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	30	=Total Cover	
Woody Vine Stratum (Plot size: 30)			
1. *Parthenocissus quinquefolia*	20	Yes	FACU
2.			
	20	=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	100	x 3 =	300
FACU species	20	x 4 =	80
UPL species	40	x 5 =	200
Column Totals:	160 (A)		580 (B)
Prevalence Index = B/A =			3.63

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

____ 3 - Prevalence Index is ≤3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

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

SOIL

Sampling Point: DP-5

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 3/2	100					Loamy/Clayey	
12-19	10YR 3/3	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]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[3]:

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

[3]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:
No indicator of hydric soil observed.

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 X	Depth (inches): ___
Water Table Present?	Yes ___	No X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches): ___

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks:
No indicator of hydrology observed.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Rock Island I-280 / IL-92 Site Assessment City/County: Rock Island, Rock Island County Sampling Date: 7/10/2024

Applicant/Owner: City of Rock Island State: IL Sampling Point: DP-6

Investigator(s): Jake Wilson Section, Township, Range: S16 T17N R2W

Landform (hillside, terrace, etc.): Flat Area Local relief (concave, convex, none): None

Slope (%): 1-2% Lat: 90.6192243°W Long: 41.4605599°N Datum: N/A

Soil Map Unit Name: 1107A, Sawmill silty clay loam, undrained, frequently flooded NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation N , Soil N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N , Soil N , or Hydrology N 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 X	No ____	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Gymnocladus dioicus*	90	Yes	UPL
2.			
3.			
4.			
5.			
	90 =Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Toxicodendron radicans*	40	Yes	FAC
2.			
3.			
4.			
5.			
	40 =Total Cover		
Herb Stratum (Plot size: 5)			
1. *Poa pratensis*	50	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	50 =Total Cover		
Woody Vine Stratum (Plot size: 30)			
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: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	90	x 3 =	270
FACU species	0	x 4 =	0
UPL species	90	x 5 =	450
Column Totals:	180 (A)		720 (B)
Prevalence Index = B/A =			4.00

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

____ 3 - Prevalence Index is ≤3.0[1]

____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** X **No** ____

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

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 Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-21	10YR 4/3	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]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[3]:

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

[3]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:
No indicator of hydric soil observed.

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 X	Depth (inches): ___
Water Table Present?	Yes ___	No X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches): ___

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks:
No indicator of hydrology observed.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Rock Island I-280 / IL-92 Site Assessment City/County: Rock Island, Rock Island County Sampling Date: 7/10/2024

Applicant/Owner: City of Rock Island State: IL Sampling Point: DP-7

Investigator(s): Jake Wilson Section, Township, Range: S16 T17N R2W

Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): None

Slope (%): 1-2% Lat: 90.6177973°W Long: 41.4616614°N Datum: N/A

Soil Map Unit Name: 727A, Waukee loam NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation N , Soil N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation N , Soil N , or Hydrology N 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 X	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Gymnocladus dioicus*	30	Yes	UPL
2.			
3.			
4.			
5.			
	30 =Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Rhus glabra*	60	Yes	UPL
2.			
3.			
4.			
5.			
	60 =Total Cover		
Herb Stratum (Plot size: 5)			
1. *Bromus inermis*	60	Yes	FACU
2. *Poa pratensis*	20	Yes	FAC
3. *Taraxacum officinale*	10	No	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	90 =Total Cover		
Woody Vine Stratum (Plot size: 30)			
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: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	20	x 3 =	60
FACU species	70	x 4 =	280
UPL species	90	x 5 =	450
Column Totals:	180 (A)		790 (B)
Prevalence Index = B/A =			4.39

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

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

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 Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-21	10YR 4/3	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]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[3]:

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

[3]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:
No indicator of hydric soil observed.

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 X	Depth (inches): ___
Water Table Present?	Yes ___	No X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes ___	No X	Depth (inches): ___

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks:
No indicator of hydrology observed.