



**SCI ENGINEERING, INC.**

650 Pierce Boulevard  
O'Fallon, Illinois 62269  
618-624-6969  
[www.sciengineering.com](http://www.sciengineering.com)

**Wetland and Waterbody Delineation Report**

**HAVEN HILL ACRES  
COLLINSVILLE, ILLINOIS**

**July 23, 2025**

**Prepared for:**

**JRG HOLDINGS – BELLEVILLE, LLC**

**SCI No. 2023-1906.30**



July 23, 2025

Jimmy Mundloch  
JRG Holdings – Belleville, LLC  
P.O. Box 9359  
St. Louis, Missouri 63117

RE: Wetland and Waterbody Delineation Report  
Haven Hill Acres  
Collinsville, Illinois  
SCI No. 2023-1906.30

Dear Jimmy Mundloch:

SCI Engineering, Inc. (SCI) is pleased to submit our *Wetland and Waterbody Delineation Report*, dated July 23, 2025, for the above-referenced project. The approximately 18-acre site is located at the end of Rosemary Hill in Collinsville, Illinois. The project includes the proposed construction of a multi-family development. Our due diligence services consisted of a site reconnaissance survey and the preparation of a Wetland and Waterbody Delineation report. An executive summary of the report is provided below.

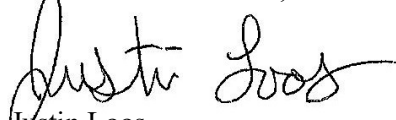
- SCI conducted a wetland and waterbody delineation of the site on June 30, 2025.
- The site was found to contain one relatively permanent waterway (RPW) (Channel A), one emergent wetland (Wetland B), and one forested wetland (Wetland A).
- The identified RPW feature is anticipated to be considered a Water of the United States (WOTUS) as identified under the definition described in Section 328.3 of the *Code of Federal Regulations* and the June 25, 2023, *Sackett V. the U.S. Environmental Protection Agency (USEPA)* supreme court case decision.


Any impact to a WOTUS, including filling, crossing, piping, relocating, or discharging into, would require a Section 404 Permit from the U.S. Army Corps of Engineers (USACE) and Section 401 Water Quality Certification from the Illinois Environmental Protection Agency (IEPA).

The attached report should be read in its entirety. We appreciate the opportunity to provide you with natural resource consulting services. If you have any questions or comments, please do not hesitate to contact me at (314) 917-2645 or [mholm@sciengineering.com](mailto:mholm@sciengineering.com).

Respectfully,

**SCI ENGINEERING, INC.**

  
Justin Loos  
Field Scientist

  
Michael S. Holm, CESSWI, CPESC  
Project Scientist

Enclosure

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- Appendix C – Automated Wetland Determination Data Forms

# **Wetland and Waterbody Delineation Report**

## **HAVEN HILL ACRES COLLINSVILLE, ILLINOIS**

### **1.0 INTRODUCTION**

SCI Engineering, Inc. (SCI) was retained by JRG Holdings – Belleville, LLC to conduct a wetland and waterbody delineation of an approximate 18-acre site located at the end of Rosemary Hill in Collinsville, Illinois. SCI understands that the project site is being considered for a multi-family development. The scope of services included performing site reconnaissance to characterize the soils, vegetation, and hydrology for the delineation of wetlands and waterbodies. Our services were provided in general accordance with our proposal, dated April 21, 2025, and executed on May 28, 2025.

During our June 30, 2025, site visit, a SCI Natural Resource Scientist performed a wetland and waterbody delineation on the project site and identified one emergent wetland (Wetland B), one forested wetland (Wetland A), and a relatively permanent waterway (RPW) tributary within the project survey limits. Traditional Navigable Waterways (TNW), RPWs, virtually indistinguishable wetlands, and some lakes and ponds, are considered waters of the United States (WOTUS) as identified under the definitions described in Section 328.3 of the *Code of Federal Regulations* and the recent Supreme Court Case, *Sackett vs the U.S. Environmental Protection Agency* (USEPA). Any impact to a WOTUS, including filling, crossing, piping, relocating, or discharging into, would require a Section 404 Permit from the U.S. Army Corps of Engineers (USACE) and a Section 401 Water Quality Certification from the Illinois Environmental Protection Agency (IEPA). Please note that the USACE has the sole authority to determine if any features identified are WOTUS resources. Likewise, the USACE has the authority to review the results of the delineation and notify the applicant of any additional requirements or restrictions.

### **2.0 SITE LOCATION**

The approximately 18-acre project site is located at the end of Rosemary Hill in Collinsville, Illinois (38.681620, -90.004607). The site is fully forested/vegetated with no development. The *Vicinity and Topographic Map* depicting the site location is enclosed as Figure 1.

### **3.0 DESKTOP REVIEW**

#### **3.1 United States Geological Survey (USGS)**

The United States Geological Survey (USGS) topographic map depicts a blue line tributary along the east boundary of the site. The site has approximately 50 feet of elevation change and generally drains to the north and east. The *USGS Topographic Map* is enclosed as Figure 1.

### 3.2 National Wetlands Inventory (NWI)

The NWI Map depicts one riverine habitat (R2UBH) in the same location as the USGS mapped tributary within the site boundaries. The *NWI Map* is enclosed as Figure 2.

### 3.3 Web Soil Survey

The Natural Resources Conservation Service (NRCS) Web Soil Survey (<http://websoilsurvey.nrcs.usda.gov>) was utilized to determine the soil types and hydric rating of the soils mapped within the project site. Wetlands require hydric soils, which are described as those soils that are sufficiently wet in the upper part to develop anaerobic conditions during the growing season. Five soil units are mapped within the project site, with one considered to be hydric. The mapped soil units are summarized in Table 3.1 below. The soil units are mapped on Figure 2.

**Table 3.1 – Soil Survey Data**

Soil Map Unit Name	Hydric rating
Menfro silt loam, 2 to 5 percent slopes	Non-hydric
Sylvan-Bold silt loams, 10 to 18 percent slopes, eroded	Non-hydric
Sylvan-Bold silt loams, 18 to 35 percent slopes, eroded	Non-hydric
Winfield-Orthents-Urban land complex, 2 to 8 percent slopes	Non-hydric
Wakeland silt loam, 0 to 2 percent slopes, frequently flooded	Hydric

### 3.4 Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM)

Review of the FIRM panel maps 1704390003B (Effective date: February 18, 1981) illustrates no floodplain within the project site. The *FEMA Flood Map* is enclosed as Figure 3.

### 3.5 Historic Aerials Review

Publicly available historic aerials were reviewed from 1955 to 2021. In 1955, the site is scattered with tree cover. By 1968, the site appears to have significantly increased vegetation cover. From 1968 to 1998 the site shows little change. Additionally, several areas surrounding the site were either constructed or in the process of being constructed. By 2004, a small area along the western boundary appears to have been cleared. From 2005 to 2007 the site shows little change. In 2009, the site appears to have trees cleared throughout the site. By 2011, more of the site appears to have trees cleared. From 2011 to 2021, the site shows little change. Overall, the site appears to show little change from 1955 to 2021. The site has had significant vegetation cover for most of the time from 1955 to 2021.

### **3.6 Antecedent Precipitation Evaluation**

The USACE Antecedent Precipitation Tool (APT) was utilized to calculate the normal range of precipitation for the project area, including whether the area was experiencing a drought at the time of the delineation. The APT calculation indicates that the area was experiencing “Normal” conditions within the three months prior to the survey compared against 30 years of climate data, and that the area was also within the “Dry Season” at the time of the wetland and waterbody delineation. The drought index was unavailable. The APT data is included within Appendix A. Prior to our site visit, the project area experienced a recent precipitation event on June 28, 2025, resulting in approximately 0.7 inches of rain.

### **4.0 SITE RECONNAISSANCE**

On June 30, 2025, SCI Natural Resource Scientists conducted a field exploration to delineate the extent of wetlands and waterbodies that exist within the project site. Suspect areas that were identified during the desktop review were explored for wetland and waterbody characteristics utilizing methods as described in the *Regional Supplement to the Corps of Engineers 1987 Wetland Delineation Manual: Midwest Region* (Version 2.0).

The site is comprised of an undeveloped forested tract. Dominant vegetation identified across the site included American sycamore (*Platanus occidentalis*), Kentucky coffee tree (*Gymnocladus dioicus*), black walnut (*Juglans nigra*), amur honeysuckle (*Lonicera maackii*), and frost grape (*vitis vulpine*). The site is surrounded by residential and commercial development. Interstate 55/70 is located northwest of the property. A small forested tract is located to the south.

### **5.0 CONDITION SUMMARY**

During our site visit, one RPW (Channel A), one emergent wetland (Wetland B) and one forested wetland (Wetland A) was identified. The identified RPW is anticipated to be considered a jurisdictional WOTUS and would likely be regulated by the USACE. A photographic summary of the identified features as well as representative site conditions is enclosed as Appendix B. The *Automated Wetland Determination Data Forms* are enclosed as Appendix C. Additionally, the features identified are illustrated on Figure 4 - *Wetland Delineation and Aerial Photograph*.

**Channel A** is an RPW feature which flows through the northeastern portion of the site. This feature originates off site and drains through the northeast corner of the site for approximately 485 feet draining north before exiting the site along the north boundary. Channel A is a Stream Order 3 channel in accordance with Strahler’s stream ordering system. The channel was observed to possess an Ordinary High-Water Mark (OHWM) of

approximately 8 to 10 feet in width, a top-of-bank width of approximately 10 to 12 feet, and a bank height of approximately 6 feet on average. The channel's substrate consisted of silt, loam, gravel, and bedrock. Water was observed flowing through the channel at the time of our visit and was approximately 1 foot deep. Based on the observed characteristics and its relatively permanent waterflow, this feature would likely be considered a WOTUS and would likely be considered jurisdictional by the USACE.

**Wetland A** is an approximately 0.42-acre forested wetland in the eastern section of the site. Wetland A was observed to be within a depression and surrounded completely by upland. The dominant vegetation within the wetland community was black willow (*Salix nigra*), northern spicebush (*Lindera benzoin*), and common jewelweed (*Impatiens capensis*). The hydric soil indicator of depleted matrix was observed within the wetland boundary. Observed hydrological wetland indicators included geomorphic position, and the FAC-neutral test. Based on the observed characteristics and lack of a continuous surface connection to a WOTUS, this feature would likely be considered non-jurisdictional by the USACE.

**Wetland B** is an approximately 0.04-acre emergent wetland in the northeastern section of the site. Wetland B was observed to be within a depression and surrounded completely by upland. The dominant vegetation within the wetland community was rice cutgrass (*Leersia oryzoides*), tall goldenrod (*Solidago gigantea*), and American sycamore. The hydric soil indicator of depleted matrix was observed within the wetland boundary. Observed hydrological wetland indicators included surface water, geomorphic position, and the FAC-neutral test. Based on the observed characteristics and lack of a continuous surface connection to a WOTUS, this feature would likely be considered non-jurisdictional by the USACE.

## 6.0 CONCLUSION

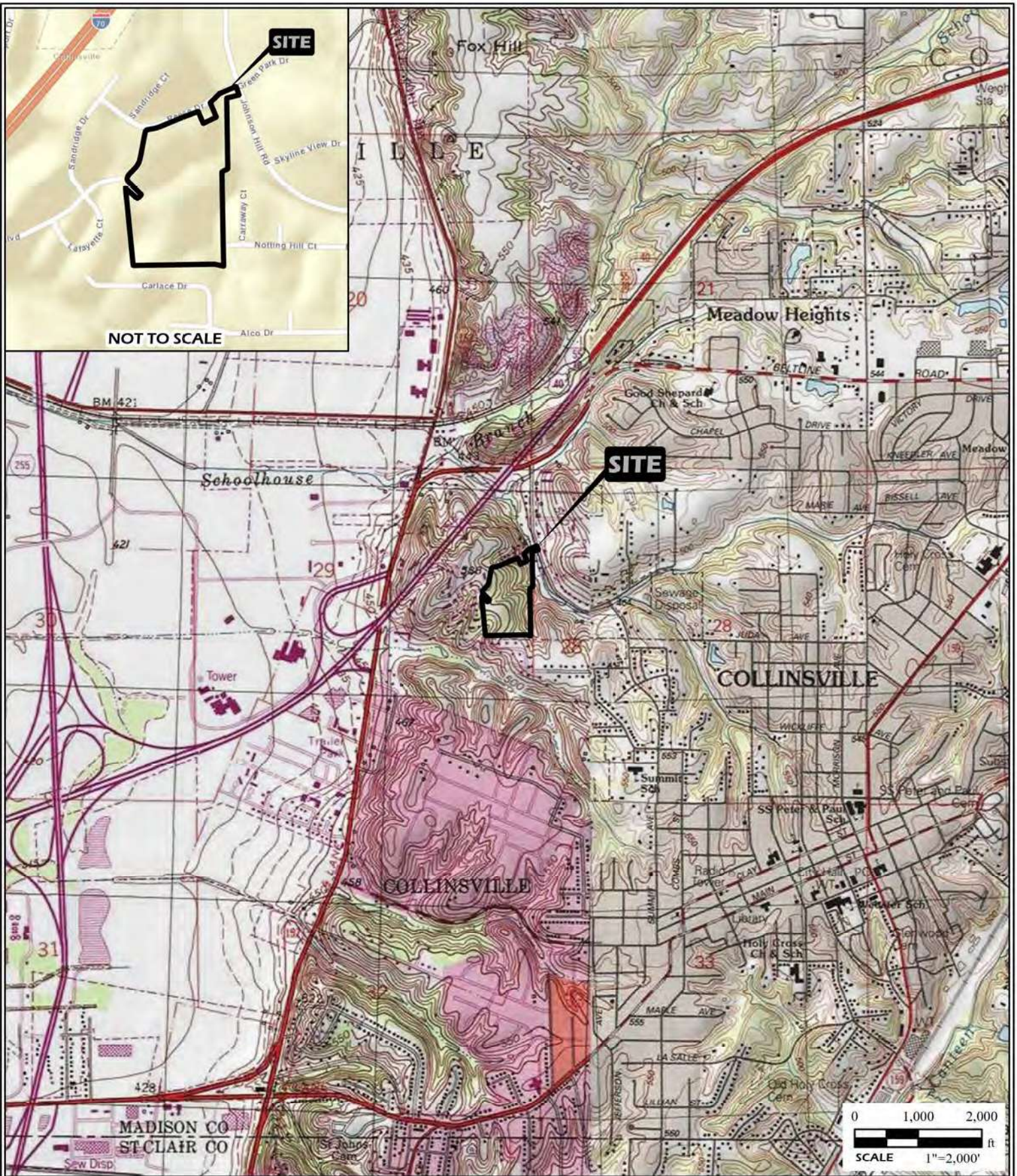
SCI performed a wetland and waterbody delineation of the subject site on June 30, 2025. The site was found to contain one RPW, one emergent wetland, and one forested wetland. Based on the observed characteristics, the identified RPW feature would likely be considered WOTUS and would likely be considered jurisdictional by the USACE. A Section 404 Permit from the USACE and a Section 401 Water Quality Certification from the IEPA would likely be required if any impacts to this feature are proposed.

## 7.0 LIMITATIONS

This report has been prepared for the exclusive use of JRG Holdings – Belleville, LLC. SCI is not responsible for independent conclusions or recommendations made by others. The USACE has the sole authority to determine if any of the features identified would be under their jurisdiction. Likewise, the USACE has the authority to review the results of the delineation and request additional information or studies. Furthermore, written consent must be provided by SCI should anyone other than JRG Holdings – Belleville, LLC wish to excerpt or rely on the contents of this report. The findings of this report are valid as of the present date of the delineation. SCI is not responsible for surveys, calculations, or plans that were prepared by others.

This delineation is based on professional experience in the approved methodology and from experience with the USACE; however, this delineation does not constitute a jurisdictional determination of WOTUS. This delineation has been based on the professional experience of SCI staff and our interpretation of USACE regulations at 33 CFR 328.3 and the *Sackett vs the USEPA/USACE* supreme court decision. While SCI believes our delineation is accurate, final authority to interpret regulations and to issue or deny a permit lies solely with the USACE.

Changes in surface and subsurface conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, the broadening of knowledge, or other reasons. Accordingly, the findings of this report may be invalidated in whole or in part by changes outside our control.



**PROJECT NAME**  
 HAVEN HILL ACRES  
 COLLINSVILLE, ILLINOIS

**VICINITY AND TOPOGRAPHIC MAP**

<b>DRAWN BY</b>	ACV	<b>FIGURE DATE</b>	07/08/2025	<b>JOB NUMBER</b>	2023-1906.30
<b>CHECKED BY</b>	MSH				

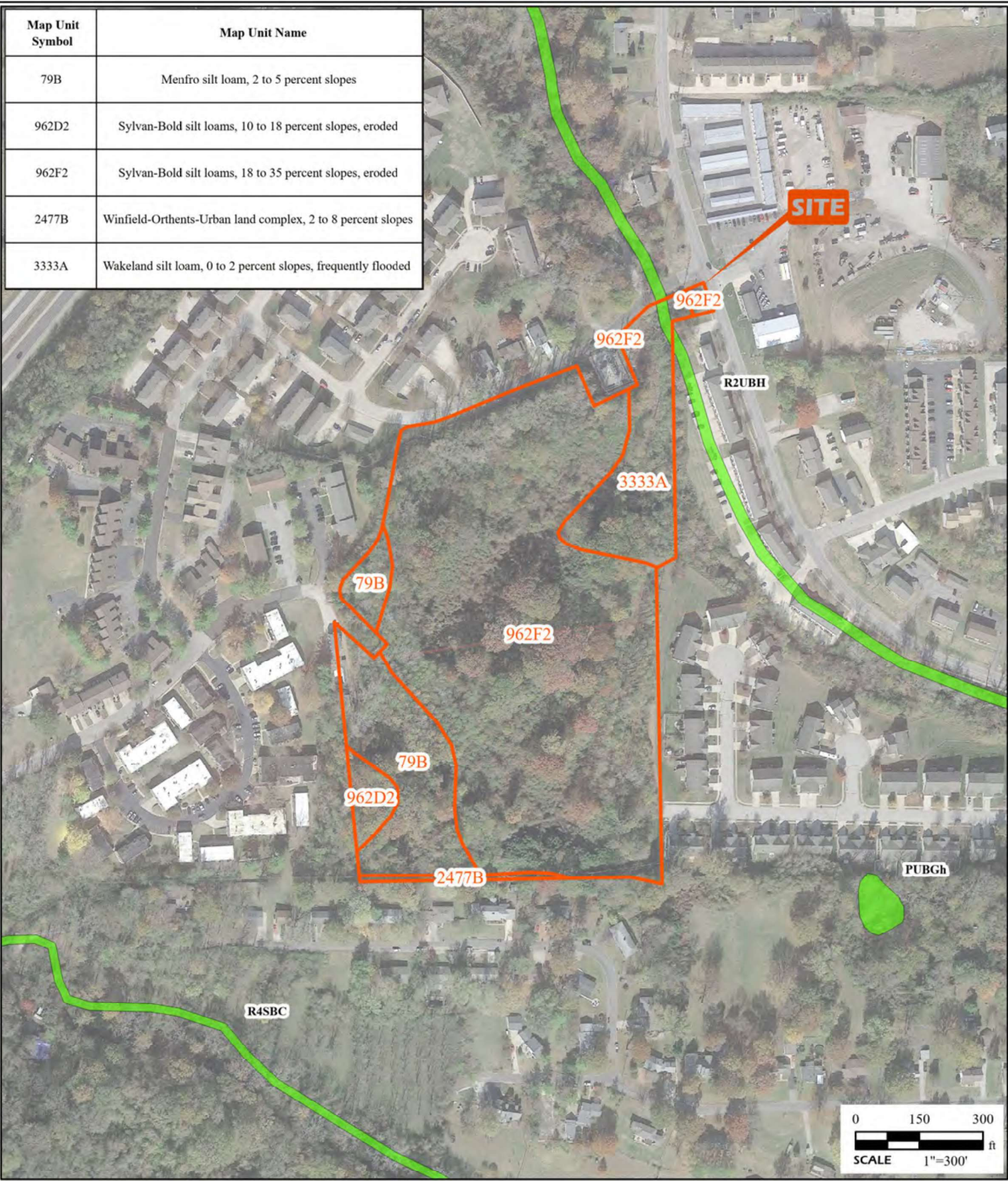
**GENERAL NOTES/LEGEND**  
 USGS TOPOGRAPHIC MAP  
 MONKS MOUND, ILLINOIS QUADRANGLE  
 DATED 1993  
 10' CONTOURS  
 COLLINSVILLE, ILLINOIS QUADRANGLE  
 DATED 1991  
 10' CONTOURS

STREET MAP  
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD\\_STREET\\_MAP](http://gto.arcgisonline.com/maps/world_street_map)




**FIGURE**  
 1


Map Unit Symbol	Map Unit Name
79B	Menfro silt loam, 2 to 5 percent slopes
962D2	Sylvan-Bold silt loams, 10 to 18 percent slopes, eroded
962F2	Sylvan-Bold silt loams, 18 to 35 percent slopes, eroded
2477B	Winfield-Orthents-Urban land complex, 2 to 8 percent slopes
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded



<b>PROJECT NAME</b> HAVEN HILL ACRES COLLINSVILLE, ILLINOIS		
<b>NATIONAL WETLAND INVENTORY &amp;          USDA SOIL SURVEY MAP</b>		
<b>DRAWN BY</b>	ACV	<b>FIGURE DATE</b>
<b>CHECKED BY</b>	MSH	07/08/2025
		<b>JOB NUMBER</b>
		2023-1906.30

**GENERAL NOTES/LEGEND**

 SOILS DATA OBTAINED FROM <https://websoilsurvey.sc.egov.usda.gov/>

 IL WETLAND DATA OBTAINED FROM <https://www.fws.gov/wetlands/>

AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH 11/2022.  
 DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY.  
 DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED.



**FIGURE DATE**  
2

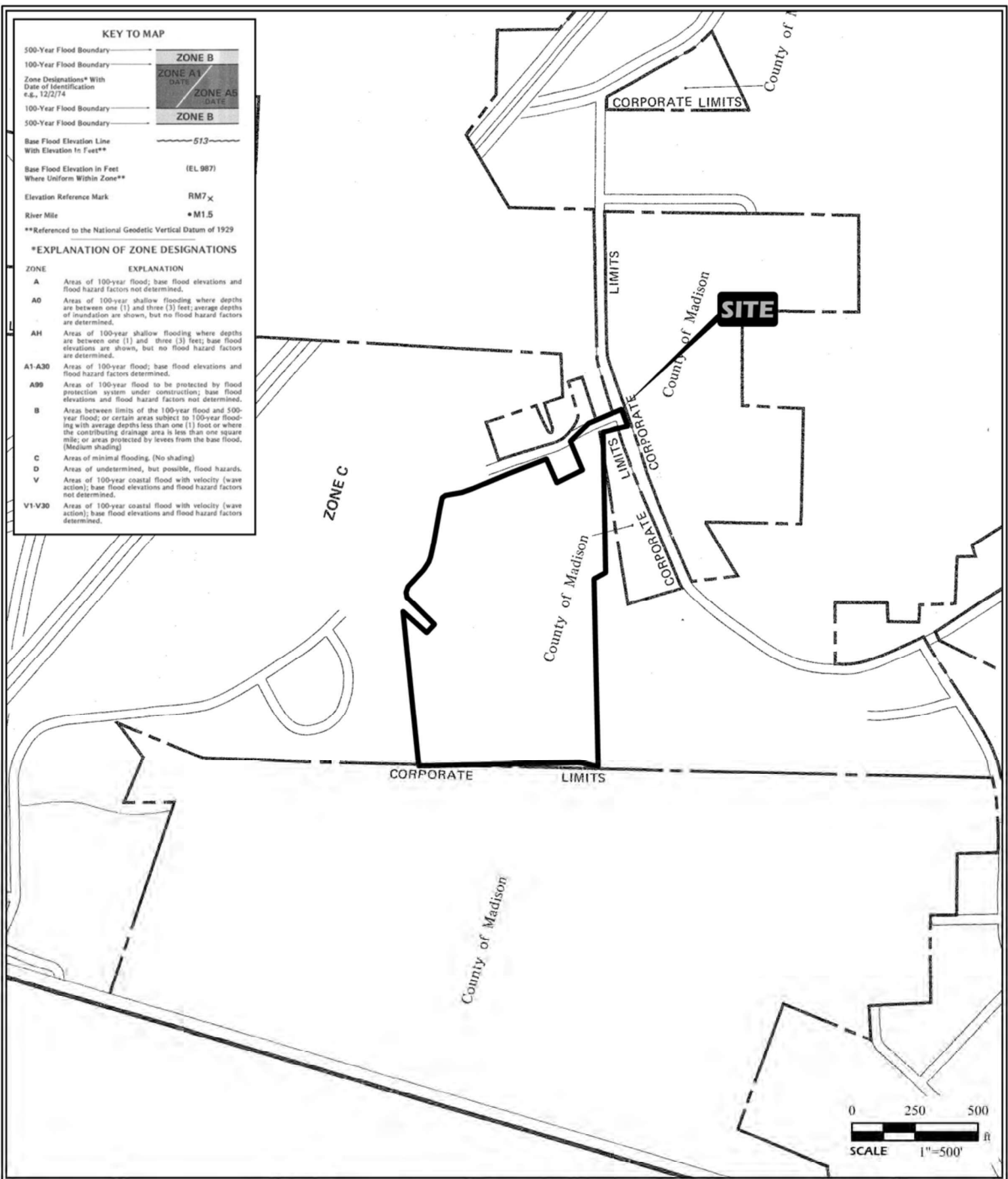
**KEY TO MAP**

500-Year Flood Boundary	---								
100-Year Flood Boundary	---								
Zone Designations* With Date of Identification e.g., 12/2/74	<table border="1"> <tr> <td><b>ZONE B</b></td> <td>DATE</td> </tr> <tr> <td><b>ZONE A1</b></td> <td>DATE</td> </tr> <tr> <td><b>ZONE A5</b></td> <td>DATE</td> </tr> <tr> <td><b>ZONE B</b></td> <td>DATE</td> </tr> </table>	<b>ZONE B</b>	DATE	<b>ZONE A1</b>	DATE	<b>ZONE A5</b>	DATE	<b>ZONE B</b>	DATE
<b>ZONE B</b>	DATE								
<b>ZONE A1</b>	DATE								
<b>ZONE A5</b>	DATE								
<b>ZONE B</b>	DATE								
100-Year Flood Boundary	---								
500-Year Flood Boundary	---								
Base Flood Elevation Line With Elevation In Feet**	~~~~~513~~~~~								
Base Flood Elevation In Feet Where Uniform Within Zone**	(EL 987)								
Elevation Reference Mark	RM7 <sub>x</sub>								
River Mile	+M1.5								

\*\*Referenced to the National Geodetic Vertical Datum of 1929

**\*EXPLANATION OF ZONE DESIGNATIONS**

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.



<b>PROJECT NAME</b>			
HAVEN HILL ACRES COLLINSVILLE, ILLINOIS			
<b>FEMA FLOOD MAP</b>			
<b>DRAWN BY</b>	ACV	<b>FIGURE DATE</b>	<b>JOB NUMBER</b>
<b>CHECKED BY</b>	MSH	07/08/2025	2023-1906.30

**GENERAL NOTES/LEGEND**

MADISON COUNTY, ILLINOIS  
 PANEL: 170439 0003 B  
 EFFECTIVE DATE: 02/18/1981

DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY  
 DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR  
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**FIGURE**  
3



- APPROXIMATE PHOTO LOCATIONS
- APPROXIMATE JURISDICTIONAL EMERGENT WETLANDS
- APPROXIMATE JURISDICTIONAL FORESTED WETLANDS
- APPROXIMATE WETLAND SAMPLE POINTS
- APPROXIMATE RPW CHANNEL LOCATIONS

WETLANDS			
NAME	TYPE	JURISDICTIONAL (Y/N)	ON-SITE AREA (AC)
WETLAND A	PFO	N	0.42
WETLAND B	PEM	N	0.04
TOTAL			0.46

CHANNELS				
NAME	TYPE	JURISDICTIONAL (Y/N)	ON-SITE LENGTH (LF)	ON-SITE AREA (AC)
CHANNEL A	RPW	Y	485	0.1
TOTAL				0.1

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GENERAL NOTES/LEGEND

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AERIAL PHOTOGRAPH OBTAINED FROM ARCGIS ONLINE, WORLD IMAGERY. DIMENSIONS AND LOCATIONS ARE APPROXIMATE. ACTUAL MAY VARY. DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED.

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PROJECT NAME  
HAVEN HILL ACRES  
COLLINSVILLE, ILLINOIS

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WETLAND DELINEATION & AERIAL PHOTOGRAPH

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JOB NUMBER  
2023-1006.30  
FIGURE DATE  
07/22/2025  
DRAWN BY  
ACV  
CHECKED BY  
MSH

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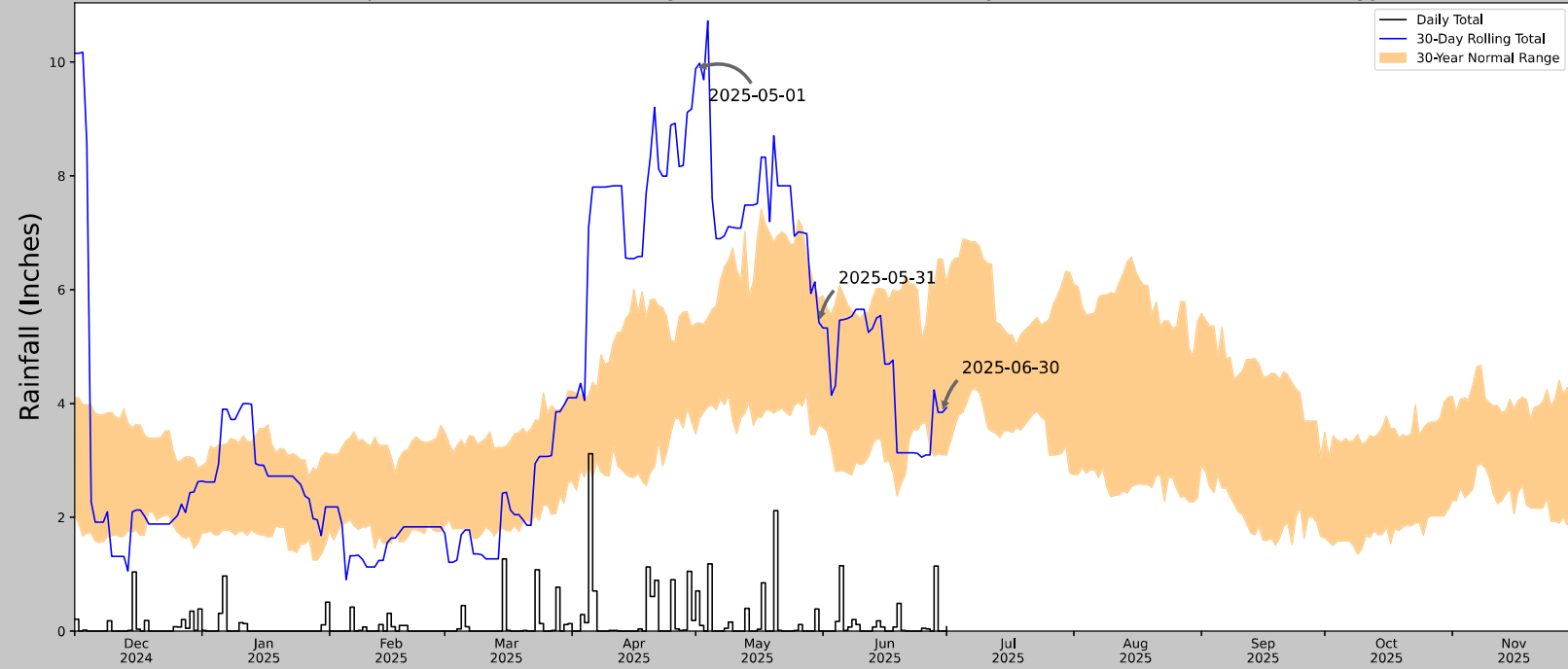
SCALE 1"=150'

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FIGURE  
4

# **Appendix A**

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



Coordinates	38.681620, -90.004607
Observation Date	2025-06-30
Elevation (ft)	530.893
Drought Index (PDSI)	Not available
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (in)	70 <sup>th</sup> %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2025-06-30	3.100788	6.53189	3.846457	Normal	2	3	6
2025-05-31	3.622047	5.854725	5.425197	Normal	2	2	4
2025-05-01	3.463386	5.405906	9.88189	Wet	3	1	3
Result							Normal Conditions - 13



Figure and tables made by the  
**Antecedent Precipitation Tool**  
Version 1.0

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

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
EDWARDSVILLE 2 W	38.8094, -90.0033	464.895	8.829	65.998	4.556	11033	89
EDWARDSVILLE 0.9 WSW	38.8089, -89.97	538.058	1.793	73.163	0.938	28	1
EDWARDSVILLE 1.1 ENE	38.8041, -89.9477	562.008	3.016	97.113	1.65	2	0
WOOD RIVER 1.2 NNW	38.8764, -90.0958	425.853	6.798	39.042	3.325	2	0
TROY 2.0 WNW	38.7417, -89.9282	582.021	6.184	117.126	3.507	1	0
GRANITE CITY 2.3 NE	38.7348, -90.0962	416.995	7.184	47.9	3.577	6	0
GRANITE CITY 1.4 ENE	38.7245, -90.1069	419.948	8.097	44.947	4.008	7	0
ALTON - MELVIN PRICE L&D	38.8669, -90.1489	404.856	8.786	60.039	4.481	274	0

# Appendix B



Photo 1. View of transmission line corridors in the northeastern corner of the site, facing south.



Photo 2. View of forested area in the northeastern section of the site, facing south.



Photo 3. View of forested area in the northwestern section of the site, facing east.



Photo 4. View of forested area in the western section of the site, facing east.



Photo 5. View of open area in the southwestern section of the site, facing north.



Photo 6. View of open vine covered area in the center of the site, facing north.



Photo 7. View of honeysuckle covered area in the southeastern corner of the site, facing west.



Photo 8. Overview of Wetland A, facing south.



Photo 9. Overview of Wetland B, facing north.



Photo 10. View of Channel A in the northeastern corner of the site, facing south.

# Appendix C

**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: 9/30/2027  
 Requirement Control Symbol EXEMPT:  
 (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Haven Hill Acres City/County: Collinsville, Madison Sampling Date: 6/30/2025  
 Applicant/Owner: JRG Holdings - Belleville, LLC State: IL Sampling Point: S1  
 Investigator(s): SCI Engineering - J. Loos Section, Township, Range: S29, T3N, R8W  
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Convex  
 Slope (%): 2-5 Lat: 38.6824855 Long: -90.0050347 Datum: WGS84  
 Soil Map Unit Name: Sylcan-Bold silt loams, 18 to 35 percent slope, eroded NWI classification: \_\_\_\_\_  
 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 "I" X 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 p x**

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u>
Remarks: Sample point 1 is located in a forested tract in the northwestern section of the site.	

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

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Juglans nigra</u>	10	Yes	FACU	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>22.2%</u> (A/B)
2. <u>Carya cordiformis</u>	10	Yes	FACU	
3. <u>Quercus rubra</u>	5	Yes	FACU	
4. _____				
5. _____				
	25 =Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15</u> )				
1. <u>Lonicera maackii</u>	70	Yes	UPL	<b>Prevalence Index worksheet:</b> 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>10</u> x 3 = <u>30</u> FACU species <u>35</u> x 4 = <u>140</u> UPL species <u>75</u> x 5 = <u>375</u> Column Totals: <u>120</u> (A) <u>545</u> (B) Prevalence Index = B/A = <u>4.54</u>
2. _____				
3. _____				
4. _____				
5. _____				
	70 =Total Cover			
Herb Stratum (Plot size: <u>5</u> )				
1. <u>Viola sororia</u>	5	Yes	FAC	<b>Hydrophytic Vegetation Indicators:</b> <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 <sup>1</sup> <u>4</u> - 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.
2. <u>Phytolacca americana</u>	5	Yes	FACU	
3. <u>Ageratina altissima</u>	5	Yes	FACU	
4. <u>Euonymus fortunei</u>	5	Yes	UPL	
5. <u>Cornus drummondii</u>	5	Yes	FAC	
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
	25 =Total Cover			
Woody Vine Stratum (Plot size: <u>15</u> )				
1. _____				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
2. _____				
	=Total Cover			
Remarks: (Include photo numbers here or on a separate sheet.)				

**SOIL**

Sampling Point:     S1    

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>		
0-3	10YR 3/3	100					Loamy/Clayey	
3-20	10YR 4/3	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:**

- 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)
- Iron Monosulfide (A18)
- 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>:**

- 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)

- 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): \_\_\_\_\_  
 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:

**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: 9/30/2027  
 Requirement Control Symbol EXEMPT:  
 (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Haven Hill Acres City/County: Collinsville, Madison Sampling Date: 6/30/2025  
 Applicant/Owner: JRG Holdings - Belleville, LLC State: IL Sampling Point: S2  
 Investigator(s): SCI Engineering - J. Loos Section, Township, Range: S29, T3N, R8W  
 Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave  
 Slope (%): 2-5 Lat: 38.68101238 Long: -90.0051618 Datum: WGS84  
 Soil Map Unit Name: Menfro silt loam, 2 to 5 percent slopes NWI classification: \_\_\_\_\_

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 "I" X 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 p x**

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

Remarks:  
 Sample point 2 is located in a forested tract in the southwestern section of the site.

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

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
1. <u>Gymnocladus dioica</u>	25	Yes	UPL	
2. <u>Platanus occidentalis</u>	25	Yes	FACW	
3. <u>Juglans nigra</u>	15	No	FACU	
4. <u>Quercus velutina</u>	10	No	UPL	
5. <u>Morus alba</u>	5	No	FAC	
	80 =Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Prevalence Index worksheet:</b> Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>35</u> x 2 = <u>70</u> FAC species <u>40</u> x 3 = <u>120</u> FACU species <u>50</u> x 4 = <u>200</u> UPL species <u>85</u> x 5 = <u>425</u> Column Totals: <u>210</u> (A) <u>815</u> (B) Prevalence Index = B/A = <u>3.88</u>
1. <u>Lonicera maackii</u>	50	Yes	UPL	
2. _____				
3. _____				
4. _____				
5. _____				
	50 =Total Cover			
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	<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>Persicaria longiseta</u>	20	Yes	FAC	
2. <u>Ageratina altissima</u>	15	Yes	FACU	
3. <u>Erigeron canadensis</u>	10	Yes	FACU	
4. <u>Teucrium canadense</u>	10	Yes	FACW	
5. <u>Perilla frutescens</u>	10	Yes	FAC	
6. <u>Alliaria petiolata</u>	5	No	FAC	
7. <u>Solidago canadensis</u>	5	No	FACU	
8. <u>Phytolacca americana</u>	5	No	FACU	
9. _____				
10. _____				
	80 =Total Cover			
Woody Vine Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
1. _____				
2. _____				
	_____ =Total Cover			

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

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

Sampling Point:            S2

<u>Tree Stratum</u>	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/Shrub</b> – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody Vine</b> – All woody vines greater than 3.28 ft in height.
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
80 =Total Cover				
<u>Sapling/Shrub Stratum</u>				
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
50 =Total Cover				
<u>Herb Stratum</u>				
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
15. _____	_____	_____	_____	
16. _____	_____	_____	_____	
17. _____	_____	_____	_____	
18. _____	_____	_____	_____	
19. _____	_____	_____	_____	
20. _____	_____	_____	_____	
21. _____	_____	_____	_____	
22. _____	_____	_____	_____	
80 =Total Cover				
<u>Woody Vine Stratum</u>				
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ =Total Cover				

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

**SOIL**

Sampling Point:   S2  

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>		
0-4	10YR 3/3	100					Loamy/Clayey	
4-20	10YR 4/3	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"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Stratified Layers (A5)	
<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"/> Iron Monosulfide (A18)	
<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 <input type="checkbox"/> No <input checked="" type="checkbox"/>
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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 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?        Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**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: 9/30/2027  
 Requirement Control Symbol EXEMPT:  
 (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Haven Hill Acres City/County: Collinsville, Madison Sampling Date: 6/30/2025  
 Applicant/Owner: JRG Holdings - Belleville, LLC State: IL Sampling Point: S3  
 Investigator(s): SCI Engineering - J. Loos Section, Township, Range: S29, T3N, R8W  
 Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex  
 Slope (%): 5-10 Lat: 38.6809492 Long: -90.0044743 Datum: WGS84  
 Soil Map Unit Name: Sylvan-Bold silt loams, 18 to 35 percent slopes, eroded NWI classification: \_\_\_\_\_  
 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 "I" X 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 p<sub>x</sub>**

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u>
Remarks: Sample point 3 is located in a forested tract in the southeastern section of the site.	

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

Tree Stratum	(Plot size: <u>30</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>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)																																
2.	_____	_____	_____	_____																																	
3.	_____	_____	_____	_____																																	
4.	_____	_____	_____	_____																																	
5.	_____	_____	_____	_____																																	
		=Total Cover																																			
Sapling/Shrub Stratum	(Plot size: <u>15</u> )																																				
1.	<u>Lonicera maackii</u>	80	Yes	UPL	<b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td align="center" colspan="2">Total % Cover of:</td> <td align="center" colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td><td align="center"><u>0</u></td> <td>x 1 =</td><td align="center"><u>0</u></td> </tr> <tr> <td>FACW species</td><td align="center"><u>0</u></td> <td>x 2 =</td><td align="center"><u>0</u></td> </tr> <tr> <td>FAC species</td><td align="center"><u>95</u></td> <td>x 3 =</td><td align="center"><u>285</u></td> </tr> <tr> <td>FACU species</td><td align="center"><u>0</u></td> <td>x 4 =</td><td align="center"><u>0</u></td> </tr> <tr> <td>UPL species</td><td align="center"><u>80</u></td> <td>x 5 =</td><td align="center"><u>400</u></td> </tr> <tr> <td>Column Totals:</td><td align="center"><u>175</u> (A)</td> <td></td><td align="center"><u>685</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A =</td> <td align="center" colspan="2"><u>3.91</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>	FAC species	<u>95</u>	x 3 =	<u>285</u>	FACU species	<u>0</u>	x 4 =	<u>0</u>	UPL species	<u>80</u>	x 5 =	<u>400</u>	Column Totals:	<u>175</u> (A)		<u>685</u> (B)	Prevalence Index = B/A =		<u>3.91</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>																																		
FAC species	<u>95</u>	x 3 =	<u>285</u>																																		
FACU species	<u>0</u>	x 4 =	<u>0</u>																																		
UPL species	<u>80</u>	x 5 =	<u>400</u>																																		
Column Totals:	<u>175</u> (A)		<u>685</u> (B)																																		
Prevalence Index = B/A =		<u>3.91</u>																																			
2.	<u>Asimina triloba</u>	5	No	FAC																																	
3.	_____	_____	_____	_____																																	
4.	_____	_____	_____	_____																																	
5.	_____	_____	_____	_____																																	
		85 =Total Cover																																			
Herb Stratum	(Plot size: <u>5</u> )																																				
1.	_____	_____	_____	_____	<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.																																
2.	_____	_____	_____	_____																																	
3.	_____	_____	_____	_____																																	
4.	_____	_____	_____	_____																																	
5.	_____	_____	_____	_____																																	
6.	_____	_____	_____	_____																																	
7.	_____	_____	_____	_____																																	
8.	_____	_____	_____	_____																																	
9.	_____	_____	_____	_____																																	
10.	_____	_____	_____	_____																																	
		=Total Cover																																			
Woody Vine Stratum	(Plot size: <u>15</u> )																																				
1.	<u>Vitis vulpina</u>	90	Yes	FAC	<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>																																
2.	_____	_____	_____	_____																																	
		90 =Total Cover																																			
Remarks: (Include photo numbers here or on a separate sheet.)																																					

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

Sampling Point:            S3

<u>Tree Stratum</u>	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	<b>Definitions of Vegetation Strata:</b>
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
	_____	=Total Cover		
<u>Sapling/Shrub Stratum</u>				
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
	85	=Total Cover		
<u>Herb Stratum</u>				
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
15. _____	_____	_____	_____	
16. _____	_____	_____	_____	
17. _____	_____	_____	_____	
18. _____	_____	_____	_____	
19. _____	_____	_____	_____	
20. _____	_____	_____	_____	
21. _____	_____	_____	_____	
22. _____	_____	_____	_____	
	_____	=Total Cover		
<u>Woody Vine Stratum</u>				
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	90	=Total Cover		

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

**SOIL**

Sampling Point:   S3  

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>		
0-4	10YR 3/3	100					Loamy/Clayey	
4-20	10YR 4/3	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:**

- 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)
- Iron Monosulfide (A18)
- 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>:**

- 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)

- 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): \_\_\_\_\_  
 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:

Project/Site: Haven Hill Acres City/County: Collinsville, Madison Sampling Date: 6/30/2025  
 Applicant/Owner: JRG Holdings - Belleville, LLC State: IL Sampling Point: S4  
 Investigator(s): SCI Engineering - J. Loos Section, Township, Range: S29, T3N, R8W  
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 38.6814201 Long: -90.0035931 Datum: WGS84  
 Soil Map Unit Name: Sylvan-Bold silt loams, 18 to 35 percent slopes, eroded NWI classification: \_\_\_\_\_  
 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 "I X" 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 p<sub>x</sub>**

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____
Remarks: Sample point 4 is located within Wetland A in the eastern section of the site.	

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

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix nigra</u>	60	Yes	OBL	Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>85.7%</u> (A/B)
2. _____				
3. _____				
4. _____				
5. _____				
	60 =Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Lindera benzoin</u>	20	Yes	FACW	Total % Cover of:      Multiply by: OBL species <u>75</u> x 1 = <u>75</u> FACW species <u>75</u> x 2 = <u>150</u> FAC species <u>25</u> x 3 = <u>75</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>10</u> x 5 = <u>50</u> Column Totals: <u>195</u> (A) <u>390</u> (B) Prevalence Index = B/A = <u>2.00</u>
2. <u>Populus deltoides</u>	15	Yes	FAC	
3. <u>Lonicera maackii</u>	10	Yes	UPL	
4. _____				
5. _____				
	45 =Total Cover			
Herb Stratum (Plot size: <u>5</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Impatiens capensis</u>	40	Yes	FACW	_____ 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> _____ 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.
2. <u>Solidago gigantea</u>	15	Yes	FACW	
3. <u>Glyceria striata</u>	15	Yes	OBL	
4. <u>Lonicera japonica</u>	10	No	FACU	
5. <u>Geum canadense</u>	10	No	FAC	
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
	90 =Total Cover			
Woody Vine Stratum (Plot size: <u>15</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____				Yes <u>X</u> No _____
2. _____				
	=Total Cover			

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

**SOIL**

Sampling Point:     S4    

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>		
0-2	10YR 3/3	100					Loamy/Clayey	
2-4	10YR 4/3	80	10YR 5/2	15	D	M	Loamy/Clayey	
			10YR 3/3	5	C	M		Faint redox concentrations
4-20	10YR 5/1	85	10YR 3/6	15	C	M	Loamy/Clayey	Prominent redox concentrations

<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)
- Iron Monosulfide (A18)
- 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>:**

- 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)

- 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): \_\_\_\_\_  
 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:

**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: 9/30/2027  
 Requirement Control Symbol EXEMPT:  
 (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Haven Hill Acres City/County: Collinsville, Madison Sampling Date: 6/30/2025  
 Applicant/Owner: JRG Holdings - Belleville, LLC State: IL Sampling Point: S5  
 Investigator(s): SCI Engineering - J. Loos Section, Township, Range: S29, T3N, R8W  
 Landform (hillside, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex  
 Slope (%): 5-10 Lat: 38.6814318 Long: -90.0037540 Datum: WGS84  
 Soil Map Unit Name: Sylvan-Bold silt loams, 18 to 35 percent slopes, eroded NWI classification: \_\_\_\_\_  
 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 "I" X 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 p X**

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u>
Remarks: Sample point 5 is located outside Wetland A in the eastern section of the site.	

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

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Quercus velutina</u>	10	Yes	UPL	<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>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.0%</u> (A/B)
2. _____				
3. _____				
4. _____				
5. _____				
	10	=Total Cover		
<b>Sapling/Shrub Stratum (Plot size: <u>15</u>)</b>				<b>Prevalence Index worksheet:</b> Total % Cover of:      Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>10</u> x 2 = <u>20</u> FAC species <u>65</u> x 3 = <u>195</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>70</u> x 5 = <u>350</u> Column Totals: <u>145</u> (A) <u>565</u> (B) Prevalence Index = B/A = <u>3.90</u>
1. <u>Lonicera maackii</u>	60	Yes	UPL	
2. _____				
3. _____				
4. _____				
	60	=Total Cover		
<b>Herb Stratum (Plot size: <u>5</u>)</b>				<b>Hydrophytic Vegetation Indicators:</b> _____ 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 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>Cystopteris protrusa</u>	10	Yes	FACW	
2. <u>Viola sororia</u>	5	Yes	FAC	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
	15	=Total Cover		
<b>Woody Vine Stratum (Plot size: <u>15</u>)</b>				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____
1. <u>Vitis vulpina</u>	60	Yes	FAC	
2. _____				
	60	=Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)				

**SOIL**

Sampling Point:     S5    

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>		
0-3	10YR 3/3	100					Loamy/Clayey	
3-20	10YR 4/3	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:**

- 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)
- Iron Monosulfide (A18)
- 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>:**

- 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)

- 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): \_\_\_\_\_  
 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:

**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: 9/30/2027  
 Requirement Control Symbol EXEMPT:  
 (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Haven Hill Acres City/County: Collinsville, Madison Sampling Date: 6/30/2025  
 Applicant/Owner: JRG Holdings - Belleville, LLC State: IL Sampling Point: S6  
 Investigator(s): SCI Engineering - J. Loos Section, Township, Range: S29, T3N, R8W  
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Convex  
 Slope (%): 2-5 Lat: 38.6821580 Long: -90.0036856 Datum: WGS84  
 Soil Map Unit Name: Wakeland silt loam, 0 to 2 percent slopes, frequently flooded NWI classification: \_\_\_\_\_  
 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 "1 X 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 p<sub>x</sub>**

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	<b>Is the Sampled Area within a Wetland?</b> Yes _____ No <u>X</u>
Remarks: Sample point 6 is located outside Wetland B in the northeastern section of the site.	

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

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status																																	
1. <u>Quercus muehlenbergii</u>	10	Yes	FACU	<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>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>42.9%</u> (A/B)																																
2. <u>Quercus alba</u>	10	Yes	FACU																																	
3. <u>Diospyros virginiana</u>	5	Yes	FAC																																	
4. _____																																				
5. _____																																				
	25	=Total Cover																																		
Sapling/Shrub Stratum (Plot size: <u>15</u> )																																				
1. <u>Lonicera maackii</u>	60	Yes	UPL	<b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td align="center" colspan="2">Total % Cover of:</td> <td align="center" colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td align="center"><u>0</u></td> <td>x 1 =</td> <td align="center"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td align="center"><u>5</u></td> <td>x 2 =</td> <td align="center"><u>10</u></td> </tr> <tr> <td>FAC species</td> <td align="center"><u>15</u></td> <td>x 3 =</td> <td align="center"><u>45</u></td> </tr> <tr> <td>FACU species</td> <td align="center"><u>25</u></td> <td>x 4 =</td> <td align="center"><u>100</u></td> </tr> <tr> <td>UPL species</td> <td align="center"><u>60</u></td> <td>x 5 =</td> <td align="center"><u>300</u></td> </tr> <tr> <td>Column Totals:</td> <td align="center"><u>105</u> (A)</td> <td></td> <td align="center"><u>455</u> (B)</td> </tr> <tr> <td>Prevalence Index = B/A =</td> <td align="center" colspan="3"><u>4.33</u></td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>5</u>	x 2 =	<u>10</u>	FAC species	<u>15</u>	x 3 =	<u>45</u>	FACU species	<u>25</u>	x 4 =	<u>100</u>	UPL species	<u>60</u>	x 5 =	<u>300</u>	Column Totals:	<u>105</u> (A)		<u>455</u> (B)	Prevalence Index = B/A =	<u>4.33</u>		
Total % Cover of:		Multiply by:																																		
OBL species	<u>0</u>	x 1 =	<u>0</u>																																	
FACW species	<u>5</u>	x 2 =	<u>10</u>																																	
FAC species	<u>15</u>	x 3 =	<u>45</u>																																	
FACU species	<u>25</u>	x 4 =	<u>100</u>																																	
UPL species	<u>60</u>	x 5 =	<u>300</u>																																	
Column Totals:	<u>105</u> (A)		<u>455</u> (B)																																	
Prevalence Index = B/A =	<u>4.33</u>																																			
2. _____																																				
3. _____																																				
4. _____																																				
5. _____																																				
	60	=Total Cover																																		
Herb Stratum (Plot size: <u>5</u> )																																				
1. <u>Parthenocissus quinquefolia</u>	5	Yes	FACU	<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.																																
2. <u>Cystopteris protrusa</u>	5	Yes	FACW																																	
3. _____																																				
4. _____																																				
5. _____																																				
6. _____																																				
7. _____																																				
8. _____																																				
9. _____																																				
10. _____																																				
	10	=Total Cover																																		
Woody Vine Stratum (Plot size: <u>15</u> )																																				
1. <u>Vitis vulpina</u>	10	Yes	FAC	<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>																																
2. _____																																				
	10	=Total Cover																																		

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

**SOIL**

Sampling Point:   S6  

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 3/3	100					Loamy/Clayey	
5-20	10YR 4/3	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:**

- 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)
- Iron Monosulfide (A18)
- 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>:**

- 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)

- 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): \_\_\_\_\_  
 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:

**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: 9/30/2027  
 Requirement Control Symbol EXEMPT:  
 (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Haven Hill Acres City/County: Collinsville, Madison Sampling Date: 6/30/2025  
 Applicant/Owner: JRG Holdings - Belleville, LLC State: IL Sampling Point: S7  
 Investigator(s): SCI Engineering - J. Loos Section, Township, Range: S29, T3N, R8W  
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave  
 Slope (%): 0-2 Lat: 38.6825047 Long: -90.0036390 Datum: WGS84  
 Soil Map Unit Name: Wakeland silt loam, 0 to 2 percent slopes, frequently flooded NWI classification: \_\_\_\_\_  
 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 "1" X 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 p x**

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	<b>Is the Sampled Area within a Wetland?</b> Yes <u>X</u> No _____
Remarks: Sample point 7 is located within Wetland B in the northeastern section of the site.	

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

Tree Stratum	(Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
		=Total Cover			
<b>Sapling/Shrub Stratum</b>		(Plot size: <u>15</u> )			
1.	<u>Platanus occidentalis</u>	15	Yes	FACW	
2.	<u>Lindera benzoin</u>	10	Yes	FACW	
3.	_____	_____	_____	_____	
4.	_____	_____	_____	_____	
5.	_____	_____	_____	_____	
		25 =Total Cover			
<b>Herb Stratum</b>		(Plot size: <u>5</u> )			
1.	<u>Leersia oryzoides</u>	30	Yes	OBL	
2.	<u>Solidago gigantea</u>	20	Yes	FACW	
3.	<u>Phragmites australis</u>	10	No	FACW	
4.	<u>Juncus tenuis</u>	10	No	FAC	
5.	<u>Geum canadense</u>	5	No	FAC	
6.	<u>Bidens frondosa</u>	5	No	FACW	
7.	_____	_____	_____	_____	
8.	_____	_____	_____	_____	
9.	_____	_____	_____	_____	
10.	_____	_____	_____	_____	
		80 =Total Cover			
<b>Woody Vine Stratum</b>		(Plot size: <u>15</u> )			
1.	_____	_____	_____	_____	
2.	_____	_____	_____	_____	
		=Total Cover			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (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>30</u>	x 1 = <u>30</u>
FACW species <u>60</u>	x 2 = <u>120</u>
FAC species <u>15</u>	x 3 = <u>45</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>105</u> (A)	<u>195</u> (B)
Prevalence Index = B/A = <u>1.86</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.)

**SOIL**

Sampling Point:   S7  

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>		
0-3	10YR 4/2	100					Loamy/Clayey	
3-20	10YR 5/2	90	10YR 3/6	10	C	M	Loamy/Clayey	Prominent redox concentrations

<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)
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- Iron Monosulfide (A18)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)
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- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
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**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 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)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
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Secondary Indicators (minimum of two required)

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- 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):   1    
 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: