

# **PUBLIC NOTICE**

CORPS OF ENGINEERS

**Application Number: SWL-2024-00202** 

**Date:** March 12, 2025

Comments Due: April 11, 2025

TO WHOM IT MAY CONCERN: Comments are invited on the work described below. Please see the <u>Public Involvement</u> section for details on submitting comments.

<u>Point of Contact</u>. If additional information is desired, please contact the regulator, Michael Gala, telephone number: (870) 571-3817, mailing address: Little Rock District Corps of Engineers, Regulatory Division, PO Box 867, Little Rock, Arkansas 72203-0867, email address: <u>Michael.R.Gala@usace.army.mil</u>. An electronic copy of the Gleason Property Mitigation Bank prospectus can be viewed on the Little Rock District, Regulatory Division webpage at <a href="http://www.swl.usace.army.mil/Missions/Regulatory/PublicNotices.aspx">http://www.swl.usace.army.mil/Missions/Regulatory/PublicNotices.aspx</a> or a hard copy can be obtained from the Corps of Engineers through the contact information listed above.

<u>Project Information</u>. Pursuant to Section 404 of the Clean Water Act (33 U.S. Code 1344), notice is hereby given that

Conway Corporation 800 South Harkrider Street Conway, Arkansas 72033

has submitted their Gleason Property Mitigation Bank (GPMB) prospectus. The proposed GPMB is a single-user mitigation bank that Conway Corporation intends to use in order to offset future environmental impacts on aquatic resources. The prospectus outlines the proposal for developing and operating the bank, which is known as the banking instrument. After public comments are received and any issues are resolved on the prospectus, Conway Corporation will submit a draft banking instrument to the District Engineer of the Little Rock District. The District Engineer will then distribute the draft banking instrument to the Interagency Review Team (IRT), which is made up of the Corps and the pertinent state and Federal resource agencies. The IRT will review the banking instrument and coordinate with Conway Corporation on any issues until a final banking instrument is completed. Finally, the District Engineer will review the final instrument and make a decision to approve or not approve.

The primary purpose of this bank is to mitigate for unavoidable impacts to streams and wetlands authorized under Section 404 of the Clean Water Act. The project's goal is to re-establish, preserve, enhance, and restore stream and wetlands functions and values within the mitigation bank area.

The project is located within a 115-acre area and would re-establish approximately 45 acres of wetlands, restore approximately 11.5 acres of wetlands, preserve approximately 11.5 acres of riparian buffer, and enhance approximately 11 acres of riparian buffer along Cadron Creek, increasing the functions and values within the mitigation bank area. The mitigation bank would

be a single-user mitigation bank to offset environmental impacts created by Conway Corporation during upgrades and the creation of utilities within its area of operations.

The 2002 Charleston Method with the Little Rock Addendum and the 2011 Little Rock Stream Method would be used as the functional assessment and credit generation mechanism for this bank.

The location and general plan for the proposed work are shown in the associated Prospectus.

<u>Cultural Resources</u>. A Corps staff archeologist will evaluate the proposal for compliance with Section 106 of the National Historic Preservation Act, including identification and evaluation of cultural resources potentially impacted by the proposal's implementation in waters of the United States. The District Engineer invites responses to this public notice from Native American Nations or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns with historic properties in the area.

<u>Endangered Species</u>. Our preliminary determination is that the proposed activity will not affect listed Endangered Species or their critical habitat. A copy of this notice is being furnished to the U.S. Fish and Wildlife Service and appropriate state agencies and constitutes a request to those agencies for information on whether any listed or proposed-to-be-listed endangered or threatened species may be present in the area which would be affected by the proposed activity.

<u>Floodplain</u>. We are providing copies of this notice to appropriate floodplain officials in accordance with 44 Code of Federal Regulations (CFR) Part 60 (Floodplain Management Regulations Criteria for Land Management and Use) and Executive Order 11988 on Floodplain Management.

<u>Regulatory Authority</u>. Implementation of the proposed mitigation bank would require Department of the Army Authorization under Section 404 of the Clean Water Act. Based on preliminary evaluation by the USACE, it appears the proposed bank may be authorized by Nationwide Permit 27 for Aquatic Habitat Restoration, Establishment, and Enhancement Activities.

Public Involvement. Any interested party is invited to submit to the above-listed POC written comments or objections relative to the proposed work on or before April 11, 2025. Substantive comments, both favorable and unfavorable, will be accepted and made a part of the record and will receive full consideration in determining whether this work would be in the public interest. The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and

accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Any person may request in writing within the comment period specified in this notice that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. The District Engineer will determine if the issues raised are substantial and whether a hearing is needed for making a decision.

**NOTE:** The mailing list for this Public Notice is arranged by state and county(s) where the project is located and includes any addressees who have asked to receive copies of all public notices. Please discard notices that are not of interest to you. If you have no need for any of these notices, please advise us so that your name can be removed from the mailing list.

**Enclosures** 

#### Approximate Coordinates of Project Center

Latitude: **35.11933°** Longitude: **-92.548985°** 

UTM Zone: 15N North: 3886369.531085 East: 541096.166887

## **PROPOSED**

## GLEASON PROPERTY MITIGATION BANK PROSPECTUS

## FAULKNER COUNTY, ARKANSAS



PREPARED BY:

ECCI 13000 CANTRELL RD.

# LITTLE ROCK, AR

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### **ATTACHMENTS**

Section 404 Delineation: Gleason Property: Faulkner County, AR (ECCI, September 27, 2024)

### 1 Introduction

The objective of this prospectus is the creation of the Gleason Property Mitigation Bank (GPMB) on 115-acres located near Gleason, Arkansas, adjacent to the confluence of Cadron Creek and the Arkansas River. The proposed mitigation bank is owned by Conway Corporation (Conway Corp). The Sponsor of the proposed mitigation bank is also Conway Corp. Engineering Compliance and Construction, Inc. (ECCI) is serving as the consultant in the establishment of the mitigation bank. This prospectus will detail the location of the mitigation bank site, provide ecological information for the proposed site, and describe the plan to fully develop the site into functioning and sustainable hardwood, native shrub, and wet prairie ecosystems. This document discusses the ecological suitability of the site to achieve the objective of the proposed mitigation bank, including the physical, chemical and biological characteristics of the site and how the site will support the planned types of aquatic resources and functions.

Topography of the majority of the project site is generally flat to slightly sloping toward Cadron Creek; with the southwestern portion of the project site displaying somewhat more variability in topography and sloping generally north to Cadron Creek. The property is primarily characterized as periodically maintained pasture land, with some areas that have not been maintained recently and have entered into vegetative succession, with a forested terrace along Cadron Creek. The property is bordered to the northeast, north, and northwest by Cadron Creek (the property extends to the centerline), to the southwest by the Arkansas River, and to the east by periodically maintained cattle pasture. A wetland delineation was performed on the proposed bank site by ECCI in September 2024 (Attachment 1). That delineation report provides additional information on site conditions.

#### 2 Bank Location

The proposed mitigation bank site encompasses a total of 115-acres and is located northwest of the City of Conway in Faulkner County, Arkansas (Figure 1). Legal description of the project area is part of Section 36 and part of the southeast quarter of Section 25, Township 6 North, Range 15 West. Approximate central coordinates of the project area are 35.119°N, -92.550°W (NAD 83). The proposed mitigation bank is located within the Cadron (8-digit HUC 11110205)

and Lake Conway-Point Remove Watersheds (8-digit HUC 11110203) (Figure 8). Topography of the majority of the project site is generally flat to slightly sloping toward Cadron Creek; with the southwestern portion of the project site displaying somewhat more variability in topography, and sloping generally north to Cadron Creek. The property is primarily characterized as periodically maintained pastureland, with some areas that have not been maintained recently and have entered into vegetative succession, with a forested terrace along Cadron Creek. The proposed GPMB currently contains approximately 18.2 acres of wetlands, 0.33 acre of open water, and approximately 7,600 linear feet of stream banks. The property is bordered to the northeast, north, and northwest by Cadron Creek (the property extends to the centerline), to the southwest by the Arkansas River, and to the east by periodically maintained cattle pasture.

Table 1. Summary

Background Information			
Project Name	Gleason Property Mitigation Bank		
Project	Conway Corporation		
Sponsor			
Site Location	Section 36, 25,		
	Township 6 North,		
	Range 15 West		
County	Faulkner		
8-Digit HUC	Cadron (11110205),		
	Lake Conway-Point Remove (11110203)		
10-Digit	Lower Cadron Creek (1111020503),		
HUC	Rocky Cypress Creek-Arkansas River (1111020305)		
12-Digit	Outlet Cadron Creek (111102050304),		
HUC	Taylor Creek-Arkansas River (111102030506)		
Primary	Lake Conway-Point Remove (11110203),		
Service Area	Cadron (11110205)		
	Lower Arkansas-Maumelle (11110207)		
Protection	Conservation Easement		
Mechanism			
Monitoring	Annually in Years 1-5, and in Year 7 and Year 10		
Frequency			
Size of	~115 acres		
Project Area			
Directions to	From I-40, take the exit for Highway 64 W, turn left onto Highway 319 W,		
Site	and turn right onto Plant Ln., and left onto J Hendrickson Dr. and continue to		
	the end of the road. The Site is approximately 2,900 feet to the northwest.		

Mitigation	To establish a single-user mitigation bank through the re-establishment of
Objectives	approximately 45 acres of wetlands, restoration of approximately 18.2 acres of
	wetlands, enhancement of approximately 11 acres of riparian buffer, and
	preservation of approximately 11.5 acres of riparian buffer.

## 3 Project Goals and Objectives

The proposed Gleason Property Mitigation Bank (GPMB) will encompass a 115-acre tract that is currently managed primarily as pasture and used for land application of potable water treatment solids (water used to backwash the filters at the potable water plant goes to residual ponds onsite; once a year the ponds are dredged and the dredged sludge is land applied at the Gleason property). The goal of the GPMB is to re-establish approximately 45 acres of wetlands, restore approximately 18.2 acres of wetlands, enhance approximately 11 acres of riparian buffer, and preserve approximately 11.5 acres of riparian buffer to increase wetland and riparian habitat and water quality in the Cadron (8-digit HUC 11110205) and the Lake Conway-Point Remove Watersheds (8-digit HUC 11110203). The GPMB will provide a variety of critical wetland and streamside wildlife habitat.

## 3.1 Objectives

To re-establish 45 acres of high-quality wetland in an area that has a long history of being used for cattle, hay production, and as a sludge disposal area. To achieve 45 acres of wetland reestablishment, the Sponsor will excavate where necessary and plug ditches and channel outlets in strategic locations to achieve hydrology within the re-establishment area, such that the area meets at least one primary hydrology indicator as described on the *Eastern Mountains and Piedmont Region Wetland Determination Data Form* as recorded at Year 3. Plantings will be done to establish appropriate vegetative communities (select species to be planted will be outlined in the Mitigation Banking Instrument [MBI] and based on reference locations [yet to be determined]. An additional objective is to preserve/establish a minimum of 100-foot riparian buffer along Cadron Creek and the Arkansas River. This will be accomplished through planting seedling trees in select locations (select species to be planted will be outlined in the MBI and based on existing species in the riparian area).

To achieve 18.2 acres of wetland restoration, 18.2 acres of green ash saplings will be selectively cleared and the area replanted to achieve no more than 10 percent cover of ash and 80 percent

cover of native shrubs and herbaceous hydrophytic plants with no more than 10 percent cover of invasive species at permanent sample point locations, so that test plots within the area would exhibit characteristics which pass the FAC-neutral test for wetland vegetation by Year 5.

To achieve 11 acres of riparian buffer enhancement, 11 acres of herbaceous uplands adjacent to Cadron Creek and the Arkansas River will be planted with native trees and shrubs. Invasive species within the existing vegetated buffer will be removed. No more than 10 percent of vegetative cover within the designated buffer area at permanent sample point locations will be invasive at the end of the 10-year maintenance and monitoring period.

To achieve 11.5 acres of riparian buffer preservation, the existing vegetated buffer area will be placed under permanent protective covenant or easement along with the proposed bank site.

Recording of the legal protection document will occur by the end of Year 1.

#### 4 Establishment of the Bank

The Sponsor proposes to enhance approximately 11-acres of riparian buffers, including planting woody species, such as willow stakes, to increase habitat value and soil stability, and preserve approximately 11.5-acres of riparian buffers along the existing streams. Following further evaluation, additional bank stabilization efforts may be proposed in the MBI. The Sponsor also proposes to restore approximately 18.2 -acres of forested wetlands and re-establish 45 acres of mixed-strata wetlands (Figure 5). Restoration will be accomplished by restoring the appropriate species mixture of bottomland hardwoods, native shrubs, and native prairie species during the winter planting season (December – March). The hydrology has been manipulated due to agricultural practices. Wetland re-establishment will include restoring hydrological factors based on historic aerial photography, where possible, and historic drainage patterns in the wetland areas by plugging ditches or enhanced by excavation to detain water. While areas proposed for wetland re-establishment would exhibit characteristics of wetlands with the proposed plugging of agricultural ditches, excavation in small areas will increase habitat and vegetation diversity, and increase chances for success of a diverse wetland habitat by supporting plant species with indicators more hydrophytic than Facultative (FAC). Tree and shrub seedlings will be planted on 12x12 spacing, for a standard density of at least 302 seedlings per acre in forested wetlands. Herbaceous species will be installed from seed at an appropriate distribution rate per acre for the

selected species. The species of seedlings planted will consist of but not be limited to (depending on availability at time of planting): Nuttall oak (*Quercus texana*), water oak (*Quercus nigra*), nutmeg hickory (*Carya myristiciformis*), willow oak (*Quercus phellos*), overcup oak (*Quercus lyrata*), and persimmon (*Diospyrus virginiana*). Shrub species will include buttonbush (*Cephalanthus occidentalis*), ninebark (*Physocarpus opulifolius*), rough leaf dogwood (*Cornus drummondii*), etc. A refined species planting list will be provided in the MBI.

### 5 Financial Assurance

Financial Assurance will be provided in the form of a bond sufficient to ensure that mitigation measures are effective and objectives are met at the bank site and the project is determined to be in a long-term management status.

## 6 Operation of the Bank

The proposed bank will serve as a stream and wetland mitigation bank offering stream and wetland mitigation credits as compensation for unavoidable impacts to streams and wetlands associated with Department of the Army Section 404 permits. There will be a conservation easement or covenant placed on the 115-acres for the mitigation implemented. The Sponsor will commit to implementing the mitigation specified in USACE permits and incur responsibility for long-term maintenance, management, protection, and overall success of the site. As a municipal entity, Conway Corp is an appropriate agency to hold the easement or covenant in perpetuity.

Stream credits generated by the GPMB will be calculated based on riparian buffer establishment and preservation area. All stream and riparian credits shall be determined by the Little Rock District Stream Method (US Army Corps of Engineers, 2011). Wetland credits generated by GPMB will be calculated using the Charleston Method for Calculating Required Mitigation Credits. The wetland and stream credits generated will be approved by the Little Rock District Corps of Engineers. The Sponsor will obtain all appropriate environmental documentation, permits, and/or other authorizations needed to establish and maintain the GPMB.

The Sponsor agrees to perform all necessary work to monitor the GPMB to demonstrate compliance with the criteria established for the bank. The Sponsor will establish both short and

long-term monitoring plots when the initial planting occurs. The monitoring reports will be provided to the Little Rock District no later than December 15th following the 1st, 2nd, 3rd, 5th, 8th, and 10th growing seasons. In the event monitoring reveals that initial planting failed to meet the success criteria of 50% survival rate or 150 trees per acre in year 1, the Sponsor will take measures to achieve the criteria the following year. In the event that monitoring reveals that native plant cover in the intended stratum is not reaching targets of 30% in year 3, 50% in year 5, 60% in year 7, and 80% in year 10, the Sponsor will take measures to achieve the criteria the following year.

Table 2. GPMB Stream Buffer Area

Stream	Re-establish minimum 100 ft Riparian Buffers left bank	Preserve Riparian Buffers
Cadron Creek	1 acre (6,421 Linear feet)	10.50 acres
Arkansas River	10 acres (1,103 Linear feet)	1 acre
Totals	11 acres	11.5 acres

Table 3. GPMB Wetland Mitigation Areas

Wetland Type	Mitigation Action	Mitigation Area
Farmed	Re-establishment	45 acres
Invasive shrub/forested	Restoration	18.2 acres
Totals		63.2 acres

## 7 Proposed Service Area

The proposed GPMB is located within two United States Geological Survey (USGS) 8-digit Hydrologic Unit Codes (HUCs): 11110205 (Cadron), which includes portions of Cleburne, White, Faulkner, Van Buren and Conway counties, and HUC 11110203 (Lake Conway-Point

Remove), which includes portions of Conway, Pope, Perry, Faulkner, Pulaski, and Van Buren counties (Figure 6). Hydrologic Cataloging Units (HUC) 11110205 & 11110203 will serve as the GPMB's primary service area. Both of these HUCs drain into either Cadron Creek or the Arkansas River upstream of the GPMB site. HUCs 11110203 and 11110205 are located in the larger 6-digit HUC 111102 (Lower Arkansas-Fourche La Fave). The Cadron and Lake Conway Point Remove Watershedsinclude (but are not limited to) the following named streams: Arkansas River, Beardy Branch, Brock Creek, Cadron Creek, Black Fork Cadron Creek, East Fork Cadron Creek, North Fork Cadron Creek, Clear Creek, Cove Creek, Cypress Creek, Galla Creek, Greenbriar Creek, Gum Log Creek, Harris Creek, Hill Creek, Isabell Creek, Mill Creek, Muddy Bayou, Overcup Creek, Palarm Creek, Point Remove Creek, Rocky Cypress Creek, and Tupelo Bayou.. Due to the proposed site's location at the confluence of Cadron Creek and the Arkansas River, runoff and surface water from upstream sources flows adjacent to and seasonally floods the project site. The GPMB will be used to compensate for unavoidable stream and wetland impacts occurring within the service area primary HUCs. However, the Little Rock District in conjunction with the IRT (Inter-Agency Review Team) may, on a case-by-case basis, allow the mitigation bank to be used to compensate for impacts occurring outside the recognized area.

## 8 General Need and Technical Feasibility

The need for this project is precipitated by the future anticipated utility projects associated with urban growth in the proposed service area and the limited mitigation options available of sufficient size and availability to the Sponsor. As a municipal utility experiencing rapid growth, it is the additional desire of the Sponsor to avoid monopolizing mitigation bank credits available to other permittees.

The proposed actions to re-establish, restore, and enhance wetland and riparian habitat at the proposed mitigation bank site are tried-and-true successful methods for increasing hydrology and habitat quality at mitigation sites. No active management in the long-term is required. Soils throughout the proposed wetland re-establishment and restoration areas meet hydric soil criteria; the areas, however, lack either hydrology or a predominance of hydrophytic vegetation. Therefore, the anticipated success of the proposed mitigation measures to establish wetlands within these areas is high.

## 9 Property Ownership and Long-Term Management Strategy

Conway Corp already is the owner/controller of the property and will record a restrictive conservation easement on the property. The restriction will require that any activity on the property complies with the terms of the mitigation banking instrument. The long-term ownership arrangements for this property will include retention of the property by Conway Corp or transfer of the conservation easement for stewardship by another entity approved by the USACE and will not be further developed. To ensure long-term protection of all lands included in the mitigation bank, the Sponsor, its heirs or successors, will be responsible for maintaining and protecting lands contained within the parcels within the GPMB in perpetuity.

## 10 Qualifications of the Sponsor

Since 1929, Conway Corp has been serving the electrical needs of the City of Conway, AR (Conway Corporation, 2024). Since its incorporation, the Sponsor has provided water, wastewater, video, internet, voice, and security services to the public. As a large municipal utility that services the City of Conway, the Sponsor has undertaken large scale projects in the past, some having required mitigation for which the Sponsor has purchased mitigation bank credits. Establishing this bank will allow the Sponsor to secure mitigation reliably for their proposed projects in the future. The Sponsor is committed to fiscal and environmental stewardship of all resources. They have committed to and have a proven track record of making prudent decisions to maintain the critical balance between financial stability, reliable operations and delivering services to customers at the best value. The Sponsor's strategic areas of focus are comprised of five categories, one of which is to plan and invest in infrastructure to ensure safety, efficiency and reliability. A major part of infrastructure development is environmental responsibility and permitting associated with building utilities. Environmental Compliance & Construction Inc. (ECCI) is the consultant representing the Sponsor for the Gleason Property Mitigation Bank. ECCI has conducted preliminary investigations and developed this prospectus in conjunction with the U.S. Army Corps of Engineers. ECCI is an environmental consulting firm that has been in business since 1993 and has continuously provided environmental and engineering solutions to enhance efficiency, sustainability and growth. ECCI personnel have developed on site mitigation plans for private individuals, companies, and multiple consulting firms.

## 11 Ecological Suitability of the Site

The proposed mitigation site is located in the Arkansas River drainage basin. The proposed primary service area includes all portions of AR 8-digit Hydrologic Unit Code (HUC) watersheds 11110203 (Lake Conway-Point Remove), 11110205 (Cadron), and 11110207 (Lower Arkansas-Maumelle). The proposed secondary service areas include all portions of AR 8-digit HUC 11010014 (Little Red). Utilizing the ecoregions map *Level III Ecoregions of the Conterminous United States* as defined by the United States Environmental Protection Agency, 2004, this site is located in the Arkansas Valley Plains Ecoregion (Level III). The Arkansas Valley plains ecoregion is flatter than the Arkansas Valley Hills ecoregion, and less rugged than other adjacent ecoregions (Boston Mountains, and the Scattered High Ridges and Mountains of the Arkansas Valley). Historically, oak-hickory or oak-hickory-pine forests were prevalent. Today, pastureland is extensive but rugged, and wooded areas do exist.

The proposed property is primarily fields currently leased for agricultural purposes and land application of water treatment solids. A forested buffer is present at the west and south boundaries of the site, ranging in width from approximately 30 feet to 120 feet from the OHWM of Cadron Creek and the Arkansas River.

The Natural Resource Conservation Service (NRCS) has mapped the soils located on the property. There were four mapped soil types identified on the proposed property, plus water (USDA, 2024). The predominant soil type identified on the property is Perry clay, 0 to 1 percent slopes, occasionally flooded. The second soil type identified is Moreland silty clay. The third soil type identified is Ouachita silt loam, occasionally flooded. Perry clay soils are very deep, poorly drained soils formed in a clayey alluvium. These soils are on level to gently undulating alluvial plains of the Arkansas and Red Rivers and their distributaries and are classified as prime farmland when drained. Moreland silty clay soils consist of somewhat poorly drained soils, classified as prime farmland. These soils formed in clayey alluvium in backswamps. Ouachita silt loam, occasionally flooded soils are deep, poorly drained, moderately permeable soils formed in loamy alluvium. These soils are on flood plains and natural levees and are classified as prime farmland (USDA, 1979).

The proposed bank is bordered by Cadron Creek and the Arkansas River. The wetlands identified on the site are located within the floodplain of Cadron Creek and the Arkansas River.

## 12 Water Rights

Hydrology on the site will continue to be precipitation and floodplain-driven and no water rights are necessary. As an agricultural property, the proposed GPMB site has actively been managed to reduce ponding. Modifying the outflow rate of hydrology from the site will increase the duration of saturation or inundation within the low-lying and proposed excavated areas of the site. It is anticipated that the site will continue to be flooded seasonally and rainfall will remain relatively consistent in the future.

### 13 References

Home - Conway Corp. Conway Corp. Published July 19, 2024. https://conwaycorp.com/

<u>Soil survey of Faulkner County, Arkansas</u>. 1979, Dept. of Agriculture, Soil Conservation Service

US Army Corps of Engineers. Little Rock District Stream Method. Little Rock District Corps of Engineers; 2011. Accessed December 3, 2024.

shttps://www.swl.usace.army.mil/Portals/50/docs/regulatory/Little%20Rock%20Stream% 20Method.pdf

USDA. 2024. Web Soil Survey.

https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx





Figure 1. Vicinity Map

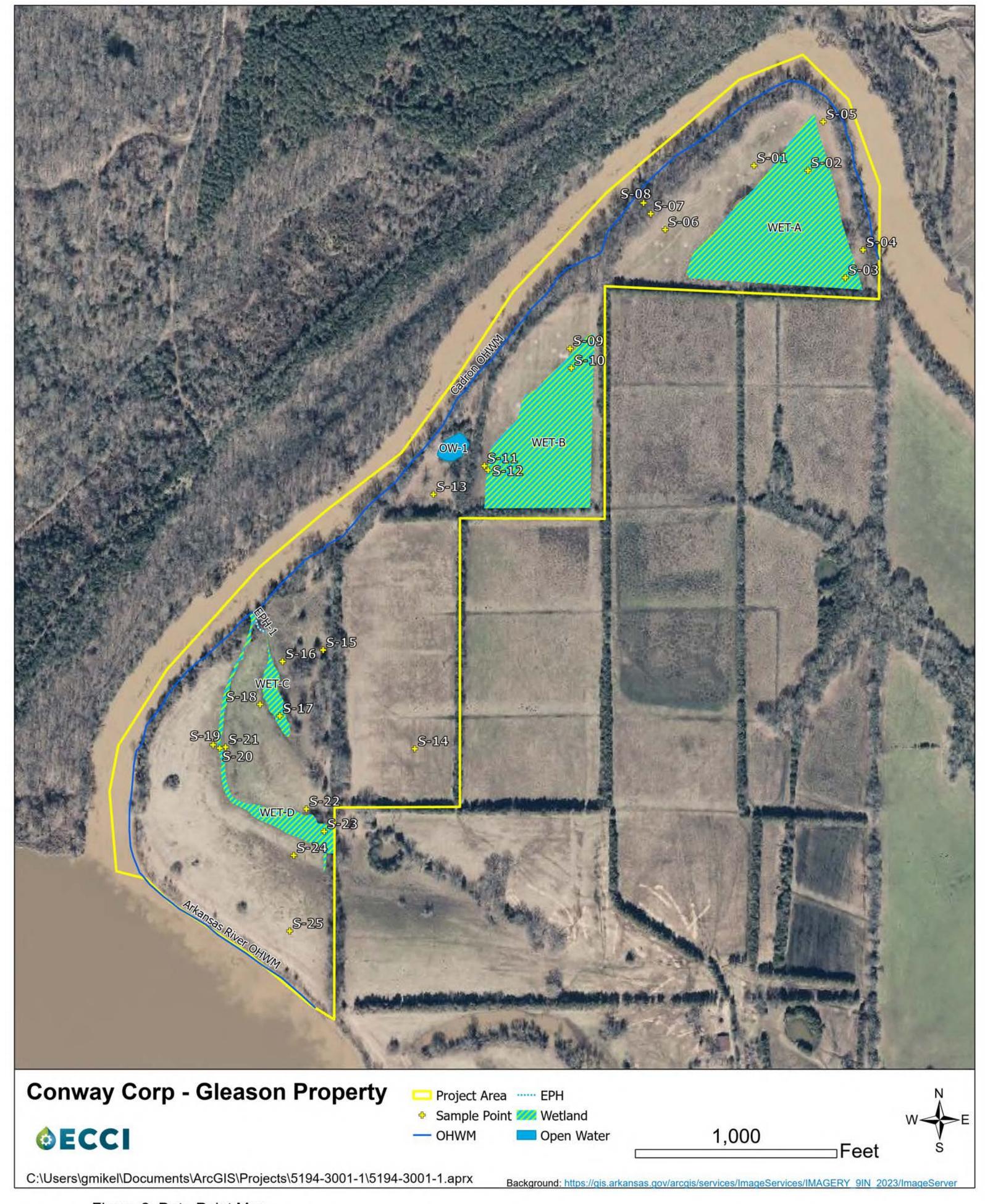


Figure 2. Data Point Map

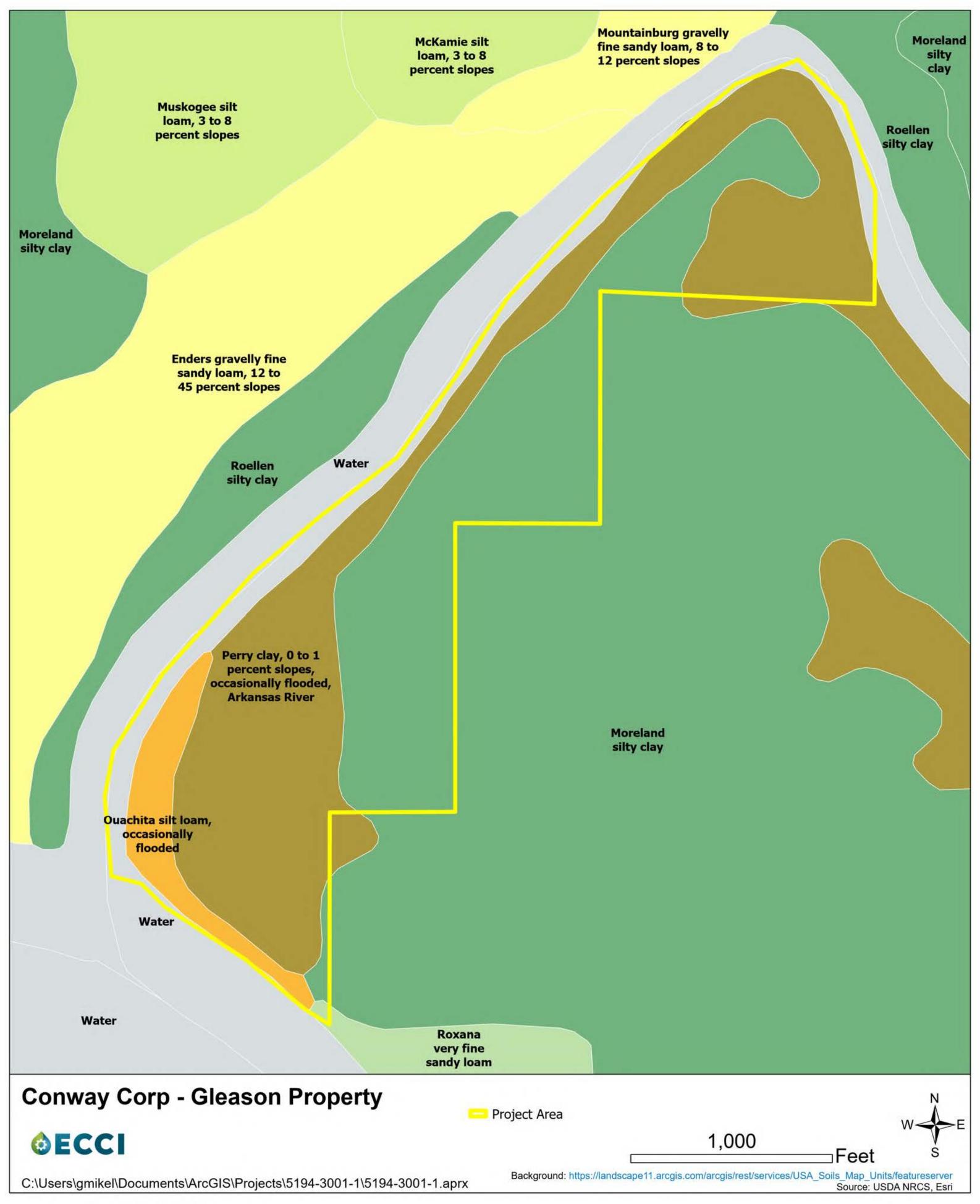


Figure 3. Soils Map

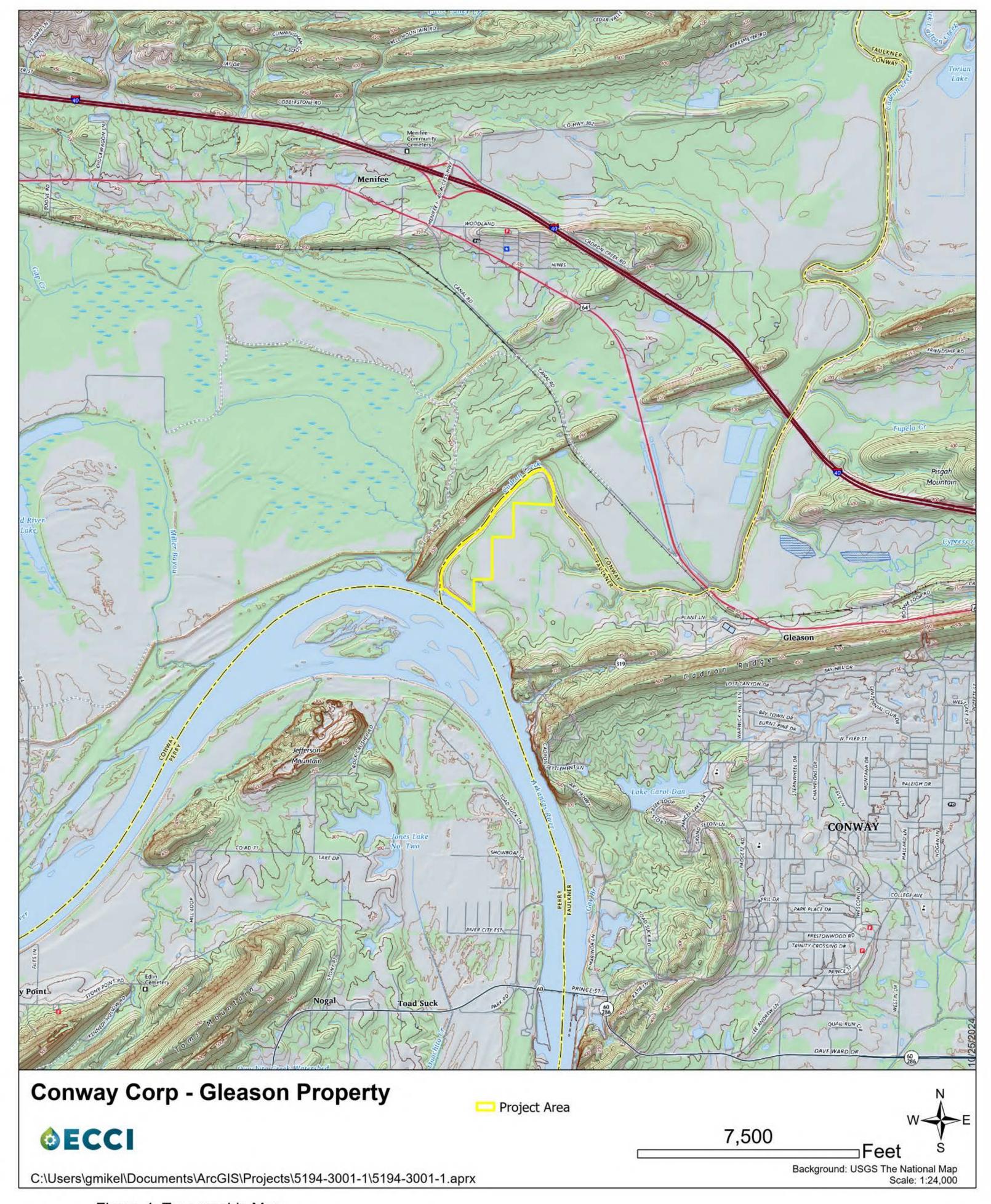


Figure 4. Topographic Map

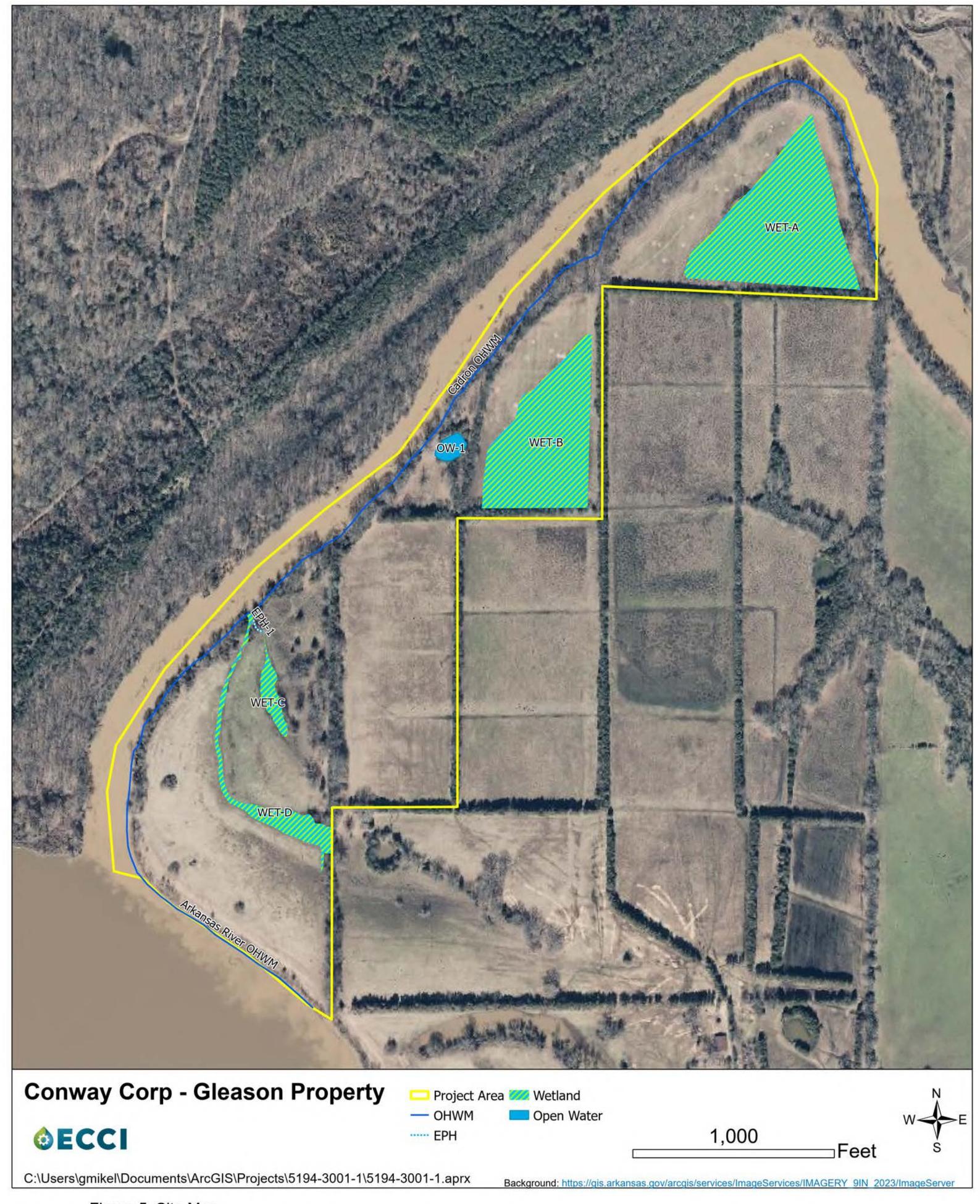


Figure 5. Site Map

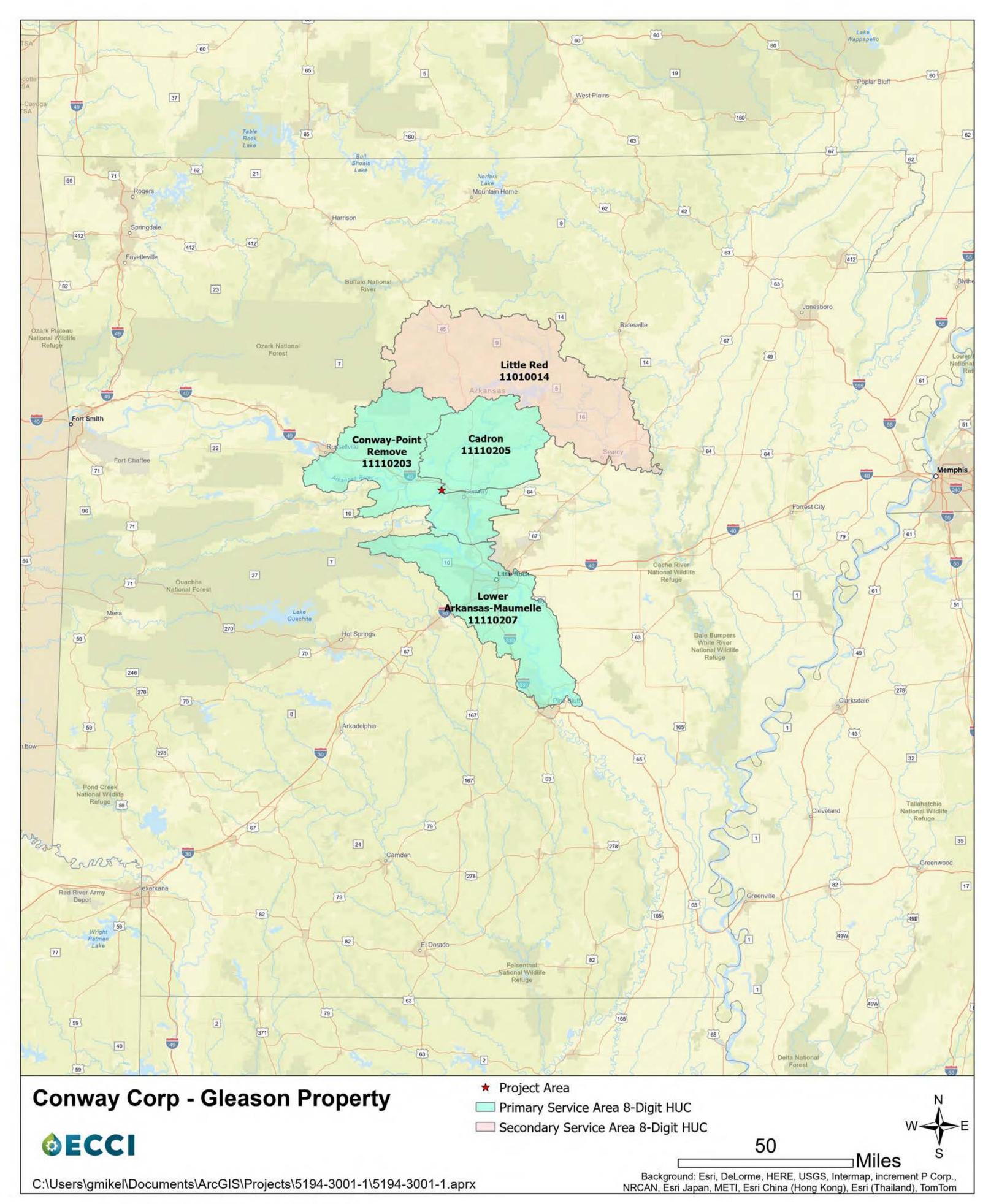


Figure 6. Proposed Service Area Map

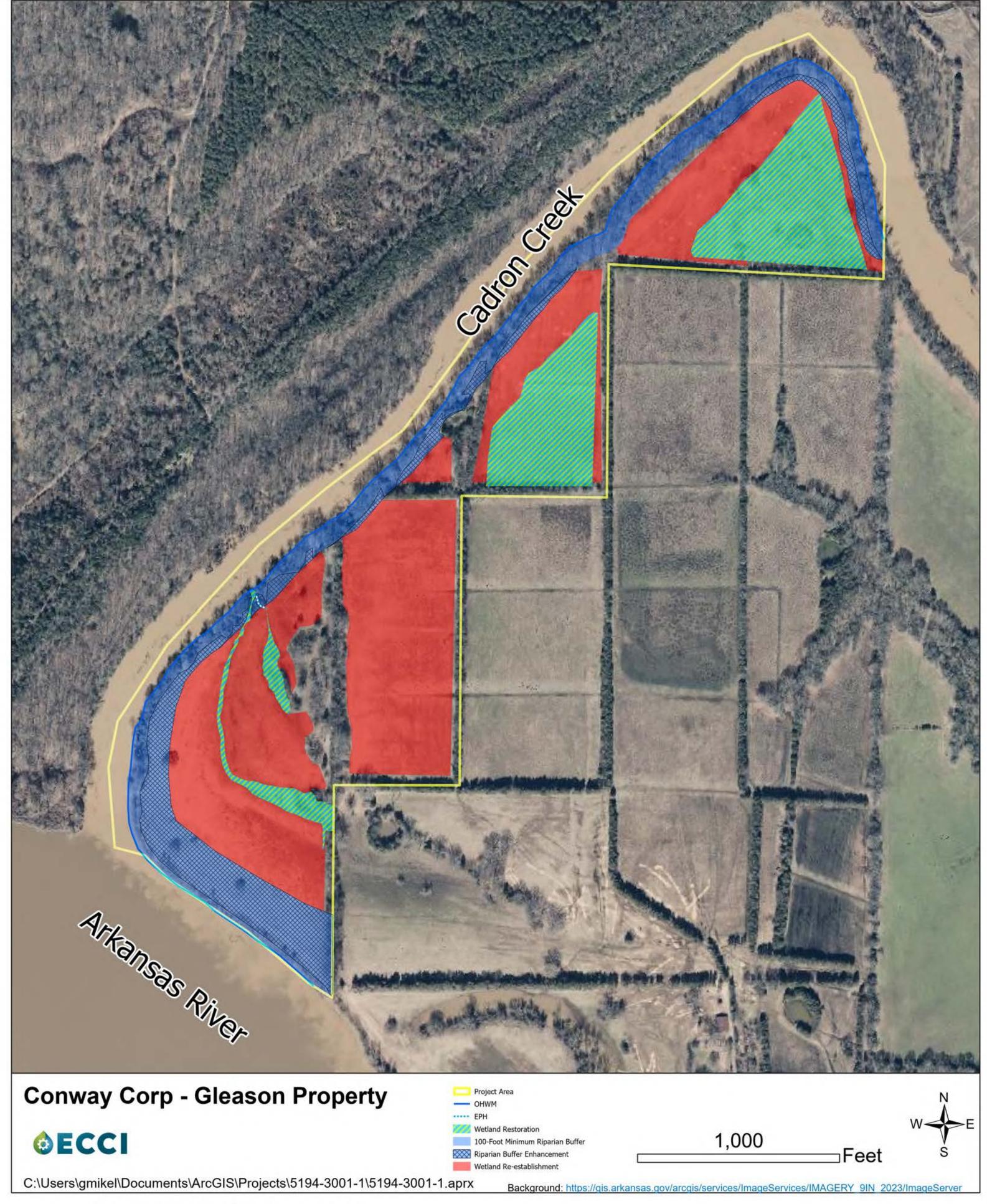


Figure 7. Mitigation Plan Concept Map

Attachment A
Section 404 Delineation: Gleason Property: Faulkner County, AR
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# SECTION 404 DELINEATION GLEASON PROPERTY

**FAULKNER COUNTY, ARKANSAS** 

**SEPTEMBER 27, 2024** 

Prepared for: CONWAY CORPORATION 800 S. HARKRIDER CONWAY, AR 72034



13000 CANTRELL ROAD LITTLE ROCK, ARKANSAS 72223-1637 TELEPHONE: (501) 975-8100

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Figure 3	Map showing project details overlaid on USGS The National Map 7.5 Minute Quadrangle Topo.
Figure 4	Map showing project details overlaid on 2023 9-inch aerial imagery.

## **LIST OF ATTACHMENTS**

ATTACHMENT A: Sampling Point Data Sheets

ATTACHMENT B: Representative Photos

ATTACHMENT C: Reference Maps

#### 1.0 INTRODUCTION

Conway Corporation (Conway Corp) requested a delineation of Section 404 wetlands and other waters of the United States (WOTUS) within a proposed project site of approximately 115 acres. The project site is located northeast of the confluence of Cadron Creek with the Arkansas River, consisting of land generally along the left descending bank of the lower extent of Cadron Creek. The site is generally north/northwest of Cadron Settlement Park and northwest of the City of Conway, Faulkner County, Arkansas (Figure 1). The area of the delineation is mapped on the USGS *The National Map* Topo basemap for quadrangle Gleason, AR (7.5-minute series) (Figure 2). Legal description of the project area is part of Section 36 and part of the southeast quarter of Section 25, Township 6 North, Range 15 West. Approximate central coordinates of the project area are 35.119°N, -92.550°W (NAD 83). The majority of the project area is located in the Outlet Cadron Creek Watershed (12-digit Hydrologic Unit Code [HUC] 111102050204), located within the larger Cadron Watershed (8-digit HUC 11110205), which totals approximately 754 mi<sup>2</sup> within the state of Arkansas. The southwestern extent of project area along the Arkansas River is located in the Taylor Creek-Arkansas River Watershed (12-digit HUC 111102030506), located within the larger Lake Conway-Point Remove Watershed (8-digit HUC 11110203), which totals approximately 1,143 mi<sup>2</sup> within the state of Arkansas.

### 2.0 MATERIALS AND METHODS

Engineering Compliance and Construction, Inc. (ECCI) of Little Rock, Arkansas conducted a Level 3, routine wetland delineation as described in the US Army Corps of Engineers (USACE) *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987). Field investigations for the delineation were conducted in August and September 2024. ECCI evaluated the area of the delineation for potential Section 404 jurisdictional areas, i.e., wetlands and other WOTUS, and complied with the USACE 1987 Manual and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual:* 

Eastern Mountains and Piedmont Region Version 2.0 (Engineer Research and Development Center 2012).

Sampling point locations were selected to evaluate areas appearing to have at least some potential for USACE regulation under Section 404 of the Clean Water Act (CWA), and to evaluate the project area for the purpose of collecting data regarding vegetative community type(s). Twenty-five (25) sampling point locations were established, and data were collected on vegetation, hydrology, and soils at each location (Figures 3 and 4) (Attachment A).

Edwin B. Smith's Keys to the Flora of Arkansas (1994) was used to confirm certain plant identifications and the USACE Cold Regions Research and Engineering Laboratory's Eastern Mountains and Piedmont National Wetland Plant List (2021) was used to determine wetland indicator status for the dominant species. Soil pits were dug with a sharpshooter shovel to a depth of approximately 16 to 18 inches, where possible, and soil colors were determined with the aid of Munsell color charts. Soil survey data from the Natural Resources Conservation Service's (NRCS) Web Soil Survey (2019) were used to determine the map units for the area. Also, the NRCS (Soil Data Access) Faulkner County, Arkansas Hydric Soils Map List and Map Units with Hydric Inclusions was used to assist in the selection of sampling points appearing to have a potential for the occurrence of hydric soils.

A smartphone using ARCGIS Field Maps paired with a Geode GPS with sub-meter accuracy was used for marking sampling site locations and potential Section 404 feature boundaries.

#### 3.0 FINDINGS AND RESULTS

#### 3.1 General Site Description

Topography of the majority of the project site is generally flat to slightly sloping toward Cadron Creek; with the southwestern portion of the project site displaying somewhat more variability in topography, and sloping generally north to Cadron Creek. The property is primarily characterized as periodically maintained pasture land, with some areas that have not been maintained recently and have entered into vegetative succession, with a forested terrace along

Cadron Creek. The property is bordered to the northeast, north, and northwest by Cadron Creek (the property extends to the centerline), to the southwest by the Arkansas River, and to the east by periodically maintained cattle pasture. Five primary plant communities were observed within the project area, as described in Section 3.2.1 below. Four wetland features (WET-A, WET-B, WET-C, and WET-D), one open water pond (OW-1), and one ephemeral drainage channel (EPH-1) were observed within the project area. Observed aquatic features are described in Sections 3.2 and 3.3 below. Figures 1 through 4 provide maps of the proposed project area. Attachment A provides completed sampling point data sheets. Attachment B provides representative photos of the project area. Attachment C provides various reference maps of the project area.

#### 3.2 Wetlands

ECCI observed four wetland features (WET-A, WET-B, WET-C, and WET-D) totaling approximately 18.21 acres that meet the technical criteria for classification as wetland (Figures 3 and 4). Table 2 provides a summary of each wetland feature.

WET-A and WET-B are both located in fields in the northern portion of the project area. Based on review of available aerial imagery, the September 2017 image shows these areas to be maintained (likely cut for hay) similar to the surrounding fields. However, by September 2018, these areas appear to no longer be maintained. Subsequent aerial images show ongoing vegetative succession. Other than a few scattered mature trees in WET-A, these two wetlands are primarily dominated by relatively young (less than 10-year-old) tree species in the sapling stratum.

It is possible that when the WET-A and WET-B areas were maintained, similar to the current conditions of the surrounding upland field areas, these areas did not meet the criteria for classification as wetlands. Long-term site management activities for agricultural purposes have likely resulted in alterations of hydrology in the relatively flat project area. Tree species on flatwood landscapes maintain "pumping" of water to the tops of trees where evaporation occurs. Is it likely that when the site was originally clearcut (the entirety of the site prior to 1983 and the majority of the site prior to 1955), the "pumping" action ceased because it cannot be maintained

by herbaceous vegetation. Clearcutting contributes to the formation of a newly established hydrologic gradient, which results in lateral movement of subsurface water from the clearcut areas to remaining forested areas, or in this case, likely directly to Cadron Creek and the Arkansas River. By falling out of regular vegetative maintenance, the woody species in the WET-A and WET-B areas may be starting to bring back the historic natural hydrologic regime which includes the "pumping" action of subsurface water. This increase in subsurface water, as well as the shading of the area by the density of the woody vegetation leading to decreased evaporation, has likely increased the hydrology in these areas so that they are reverting to wetlands. Although these areas appear to be reverting to wetland features, the species makeup, dominated by green ash (*Fraxinus pennsylvanica*), is indicative of a highly disturbed rather than naturally vegetated wetland area.

WET-C is a mixed-strata wetland including a sparsely vegetated depressional area fringed by wetland trees to the south, with a linear drainageway extending north consisting primarily of scrub/shrub/herbaceous vegetation. Drainage from WET-C flows toward the north and is conveyed by an ephemeral drainage channel (EPH-1) toward Cadron Creek.

WET-D is a mixed-strata linear drainage wetland that includes a forested depressional area to the southeast, transitioning into a shrub/scrub/herbaceous wetland that narrows toward the north. WET-D extends directly to Cadron Creek.

#### 3.2.1 Vegetation

The project area includes the following five primary vegetative communities:

- Successional sapling wetland community;
- Mixed-strata wetland community;
- Upland field community;
- Forested, upland riparian, terrace community; and
- Mixed-strata, previously disturbed, upland community.

The successional sapling wetland community, observed within WET-A and WET-B, is primarily dominated by green ash, honey locust (*Gleditsia triacanthos*), panicledleaf ticktrefoil

(Desmodium paniculatum), Cherokee sedge (Carex cherokeensis), false nettle (Boehmeria cylindrica), and annual marsh elder (Iva annua) (Attachment B, Photos 1-6).

The mixed-strata wetland community, observed within WET-C and WET-D, is primarily dominated by green ash, honey locust, sugarberry (*Celtis laevigata*), American elm (*Ulmus americana*), eastern bald cypress (*Taxodium distichum*), common button-bush (*Cephalanthus occidentalis*), black willow (*Salix nigra*), swamp smartweed (*Persicaria hydropiperoides*), and floating primrose-willow (*Ludwigia peploides*) (Attachment B, Photos 7-13).

An upland field community, observed within the majority of the project area, is dominated by annual marsh elder, honey locust, Japanese clover (*Kummerowia striata*), beaked panicgrass (*Coleataenia anceps*), Bermuda grass (*Cynodon dactylon*), straw-colored flat sedge (*Cyperus strigosus*), annual bluegrass (*Poa annua*), Dallis grass (*Paspalum dilatatum*), bahiagrass (*Paspalum notatum*), wooly croton (*Croton capitatus*), and white clover (*Trifolium repens*) (Attachment B, Photos 14-15).

The forested, upland riparian, terrace community is located along Cadron Creek and the Arkansas River. Commonly observed dominant species in this community include shagbark hickory (*Carya ovata*), pecan (*Carya illinoinensis*), bitternut hickory (*Carya cordiformis*), Shumard oak (*Quercus shumardii*), sugarberry, eastern red cedar (*Juniperus virginiana*), common persimmon (*Diospyros virginiana*), sweet-gum (*Liquidambar styraciflua*), deciduous holly (*Ilex decidua*), poison ivy (*Toxicodendron radicans*), southern dewberry (*Rubus trivialis*), muscadine grape (*Vitis rotundifolia*), sawbrier (*Smilax bona-nox*), Virginia creeper (*Parthenocissus quinquefolia*), etc. (Attachment B, Photo 18-21).

The mixed-strata, previously disturbed, upland community, located generally in the areas east of WET-C, surrounding OW-1, and in various other areas of the site, include a variety of vegetative species. Select dominant species include common persimmon, pecan, green ash, honey locust, sugarberry, annual marsh elder, white cut grass (*Leersia virginica*), swamp smartweed, southern dewberry, pepper-vine (*Ampelopsis arborea*), poison ivy, etc. (Attachment B, Photo 17).

Positive indicators of hydrophytic vegetation were observed at 17 of the 25 sampling point locations (Table 1; Attachment A).

#### 3.2.2 Hydrology

WET-A. WET-B, WET-C, and WET-D receive hydrology primarily from local runoff and precipitation, as well as seasonal flooding from the Arkansas River and Cadron Creek. Positive indicators of with hydrologic observed within various wetland areas include surface water, high water table, saturation, water marks, drift deposits, inundation visible on aerial imagery, water-stained leaves, oxidized rhizospheres on living roots, surface soil cracks, drainage patterns, saturation visible on aerial imagery, geomorphic position, and positive FAC-neutral tests. Wetland hydrology was observed at 8 of the 25 sampling point locations (other than S-08 which lacked hydric soils, positive indicators of hydrology were only observed within wetland features) (Table 1; Attachment A).

#### 3.2.3 Soils

Table 2 summarizes soils mapped within the project site by the NRCS *Web Soil Survey* 3.4 (Attachment C). Hydric soil status of each soil map unit is taken from the NRCS hydric soils lists for Faulkner County, Arkansas. (A portion of the area on the soil map is mapped as Water associated with Cadron Creek and the Arkansas River.)

Positive indicators of hydric soils were observed at 11 of the 25 sampling point locations, (Table 1; Attachment A). Each of the mapped soil units are listed by the NRCS as hydric soils (Table 3). It is likely that much of the project area that currently has positive indicators of hydric soils, but lacks hydrophytic vegetation and/or wetland hydrology, does so due to the relic nature of the soils from a period when the area was a bottomland wetland area associated with Cadron Creek and the Arkansas River, and/or due to onsite agricultural activities over the years which have exposed the soil to oxygen and water in an abnormal regime.

Table 1. Summary of findings at each of the 25 sampling point locations.

Sampling Point	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Technical Wetland
S-01	Yes	Yes	No	No
S-02	Yes	Yes	Yes	Yes
S-03	Yes	Yes	Yes	Yes
S-04	No	Yes	No	No
S-05	No	No	No	No
S-06	Yes	Yes	No	No
S-07	No	No	No	No
S-08	Yes	No	Yes	No
S-09	Yes	No	No	No
S-10	Yes	Yes	Yes	Yes
S-11	No	Yes	No	No
S-12	Yes	Yes	Yes	Yes
S-13	Yes	No	No	No
S-14	No	No	No	No
S-15	Yes	No	No	No
S-16	Yes	No	No	No
S-17	Yes	Yes	Yes	Yes
S-18	No	No	No	No
S-19	Yes	No	No	No
S-20	Yes	Yes	Yes	Yes
S-21	Yes	No	No	No
S-22	No	No	No	No
S-23	Yes	Yes	Yes	Yes
S-24	Yes	No	No	No
S-25	No	No	No	No

Table 2. Summary of four wetland features.

Wetland ID	Wetland Vegetative Type	Acreage (acres onsite)	Photo #'s
WET-A	Sapling	8.98	1-4
WET-B	Sapling	7.13	5-6
WET-C	Mixed-strata	0.57	7-3
WET-D	Mixed-strata	1.53	10-13

Soil Map Unit Name Description Hydric Faulkner County, Arkansas Somewhat poorly drained, found in backswamps Moreland silty clay Yes Poorly drained, found in flood plains and on natural Ouachita silt loam, occasionally flooded Yes levees Perry clay, 0 to 1 percent slopes, Poorly drained, found in backswamps Yes occasionally flooded, Arkansas River Well drained, found in flood plains Roxana very fine sandy loam Yes Water N/A N/A

Table 3. Summary of soil map units.

#### 3.3 Other Waters of the US

Other than Cadron Creek and the Arkansas River, which bound the northeast, north, northwest, west, and southwest edges of the project area, the historic (1962, 1975, 1982, 1995, 2014, 2017) USGS topographic maps, the current *The National Map* Topo basemap (USGS) for quadrangle Gleason, AR (7.5-minute series) (2020), and the National Wetlands Inventory (NWI) do not map any aquatic features within the project area (Figure 3; Attachment C). The NWI maps Cadron Creek as an Unknown Perennial, Unconsolidated Bottom, Permanently Flooded, Riverine channel and maps the Arkansas River as a Lower Perennial, Unconsolidated Bottom, Permanently Flooded, Riverine channel.

Onsite observations revealed the presence of one man-made open water pond (OW-1) and one non-relatively permanent water (non-RPW) ephemeral drainage channel (EPH-1). OW-1 is a man-made pond with no obvious direct flow inlet or outlet (Attachment B, Photo 24). A pipe was observed through the southern edge of the pond embankment, but no defined drainage channel was observed south of the pipe. There is what visually appears to be a slightly lower portion of the berm along the northern edge of the pond embankment which may serve as a periodic overflow point (Attachment B, Photo 25). From this overflow point there is an undefined drainageway via a cut or eroded area in the stream terrace, leading to Cadron Creek. OW-1 is approximately 0.33 acre in size. EPH-1 is a small non-RPW drainageway that appears to periodically convey flow from WET-C to the point of confluence of WET-D and Cadron Creek. EPH-1 extends approximately 86 linear feet (Attachment B, Photo 26).

Cadron Creek extends approximately 6,424 linear feet along the northeast, north, and northwest project boundary. The Arkansas River extends approximately 1,104 linear feet along the southwest project boundary (Attachment B, Photos 22-23).

No other potential WOTUS, i.e., ponds, lakes, streams, rivers, etc., were observed within the project area.

#### 3.4 Downstream Hydrologic Connectivity

The project site is adjacent to and within the floodplain/floodway of Cadron Creek and the Arkansas River; ultimately draining to the Arkansas River, a TNW. Although WET-A, WET-B, and OW-1 were not observed to have a continuous surface connection to either Cadron Creek or the Arkansas River, the close proximity and seasonal flooding provide hydrologic connectivity between these aquatic features and a TNW. WET-C and WET-D were observed to have continuous surface connection to Cadron Creek and thence to a TNW.

#### 4.0 FEMA 100-YEAR FLOODPLAIN AND FLOODWAY ISSUES

The Federal Emergency Management Agency (FEMA) maps the entirety of the project area as Zone AE Floodplain (with the southwestern edge along the Arkansas River mapped within a Zone AE Floodway), associated with the Arkansas River and Cadron Creek, with base elevations known. FEMA mapping is provided in Attachment C.

#### **5.0 SUMMARY AND CONCLUSIONS**

- ECCI observed four technical wetland features, i.e., WET-A, WET-B, WET-C, and WET-D, totaling approximately 18.21 acres within the project area,
- ECCI observed one open water pond, OW-1, totaling approximately 0.33 acre in size.
- ECCI observed one non-relatively permanent water stream channel, EPH-1, extending approximately 86 linear feet.
- ECCI observed the left descending edge of a perennial channel, Cadron Creek, extending approximately 6,424 linear feet along the project boundary.
- ECCI observed the left descending edge of a TNW, the Arkansas River, extending approximately 1,104 linear feet along the project boundary.
- FEMA maps the entirety of the project area within the Floodplain/Floodway of Cadron Creek and the Arkansas River.



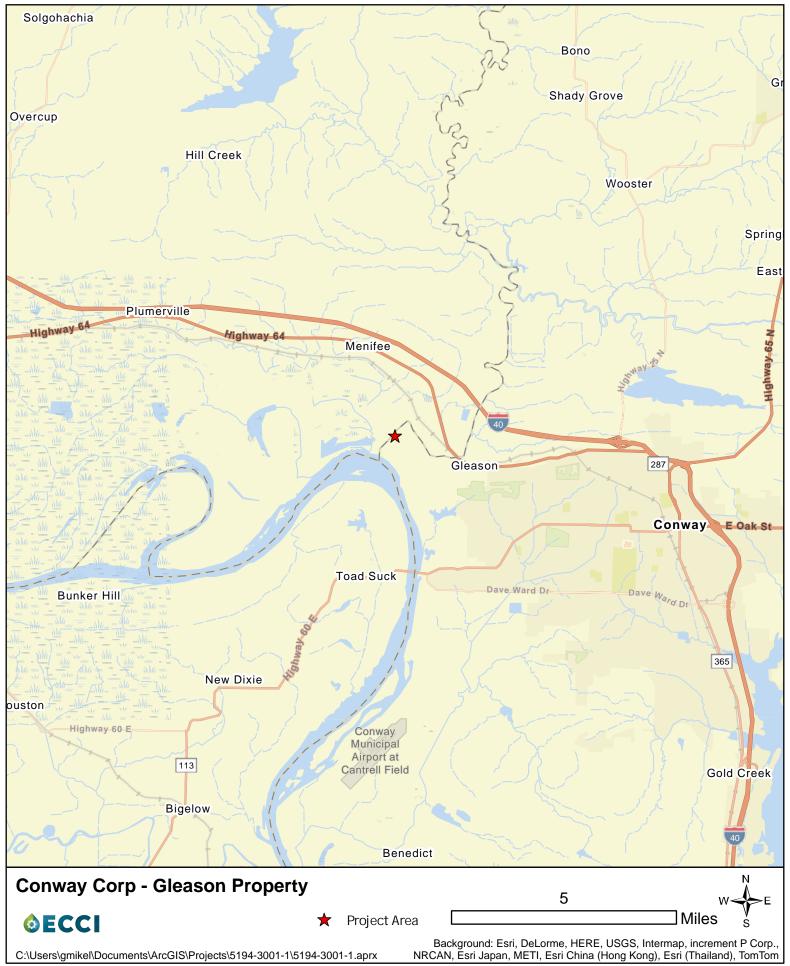


Figure 1. Map showing project vicinity overlaid on ESRI World Street Maps.

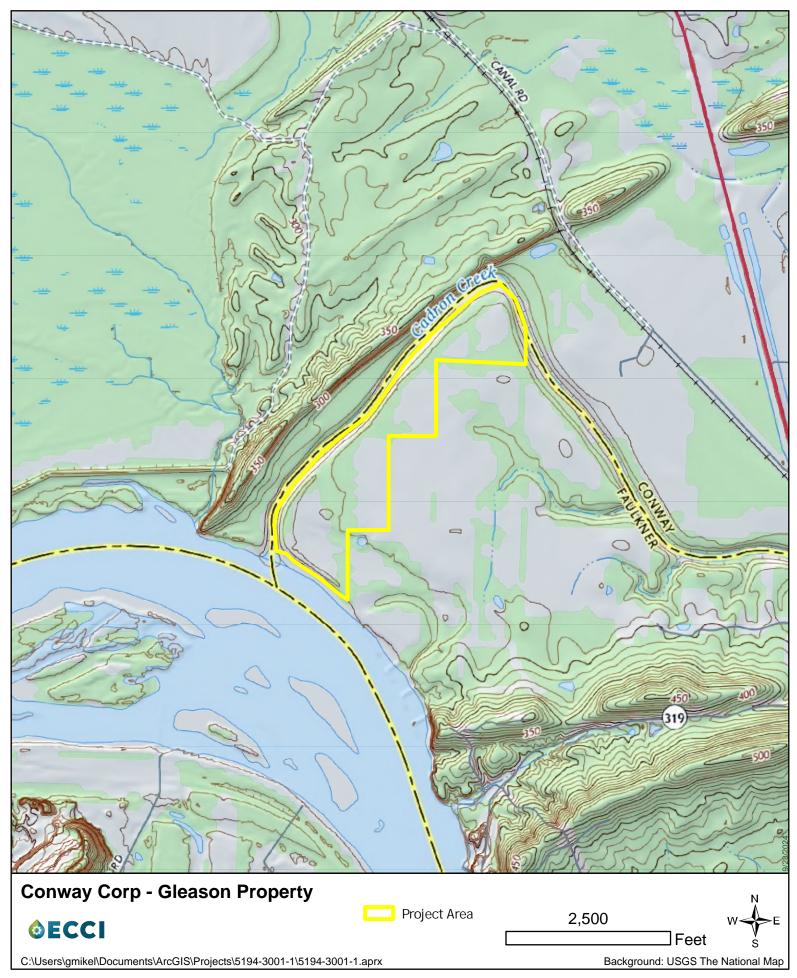


Figure 2. Map showing project area overlaid on USGS The National Map 7.5 Minute Quadrangle Topo.

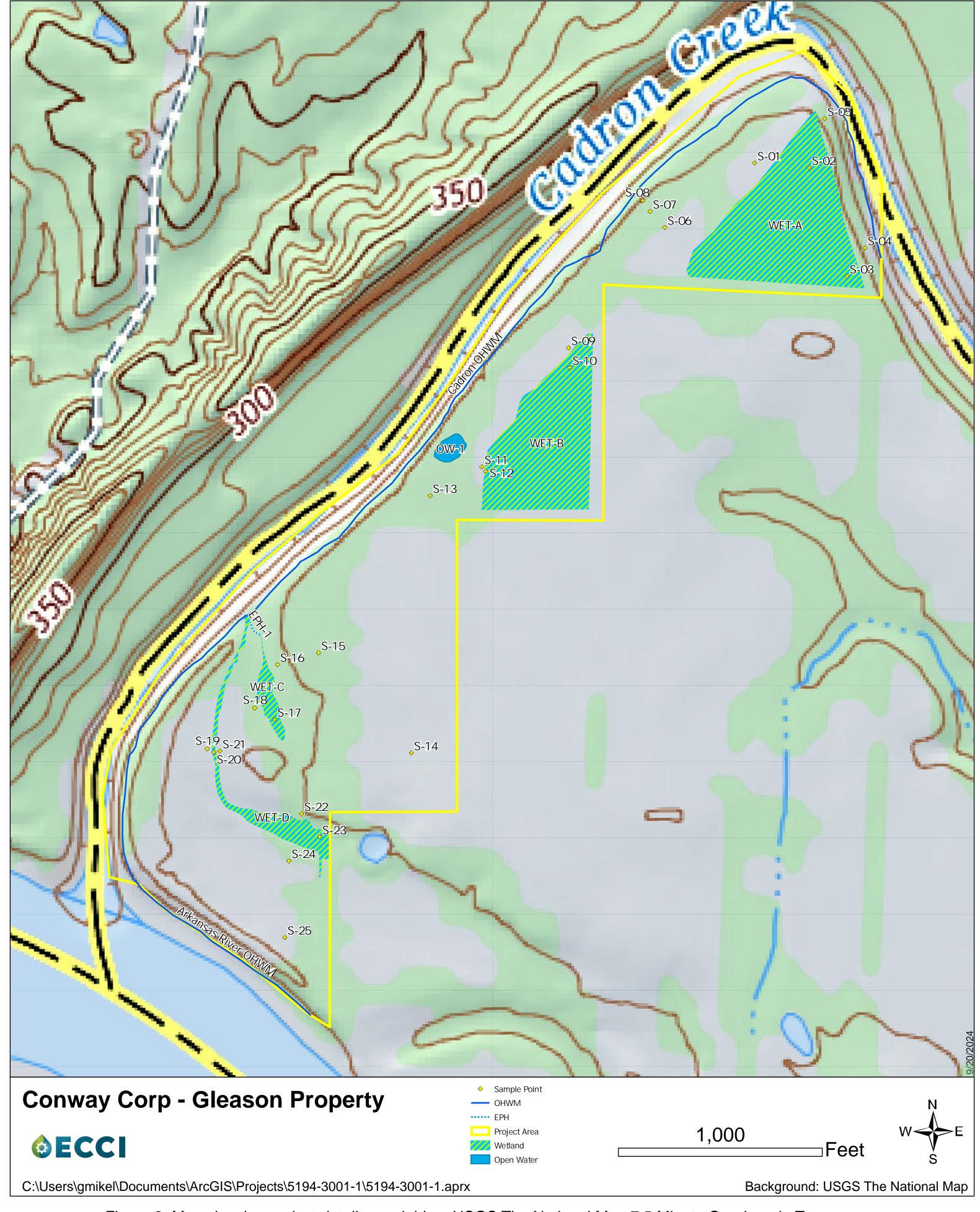


Figure 3. Map showing project details overlaid on USGS The National Map 7.5 Minute Quadrangle Topo .

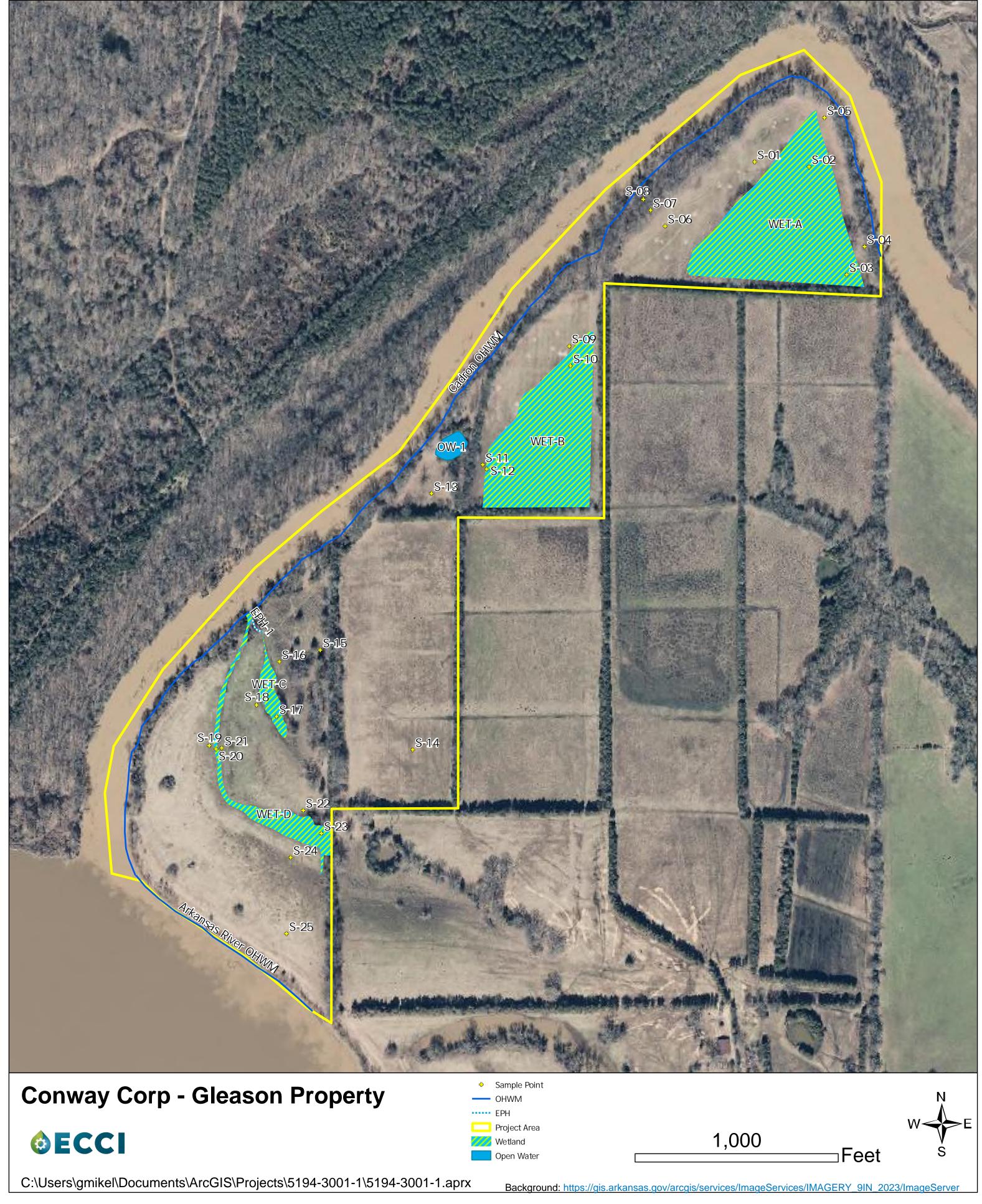


Figure 4. Map showing project details overlaid on 2023 9-inch aerial imagery.



Project/Site: Gleason	City/County: Faull	cner County	Sampling Date: 2024-08-09		
Applicant/Owner: Conway Corp		State: Arkansa			
Investigator(s):Jimmy Rogers	Section, Township,	Range: S25 T6N R15W			
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave,	convex, none): None	Slope (%): 0		
Subregion (LRR or MLRA): N 118A L					
Soil Map Unit Name: 16 - Moreland silty clay		NWI classifica	ation:		
Are climatic / hydrologic conditions on the site typica	l for this time of year? Yes N	o (If no, explain in Re	emarks.)		
Are Vegetation, Soil, or Hydrology	significantly disturbed?	are "Normal Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or Hydrology _		f needed, explain any answer			
SUMMARY OF FINDINGS – Attach site					
Hydrophytic Vegetation Present? Yes	' No				
Hydric Soil Present?	No No within a We		No 🗸		
Wetland Hydrology Present? Yes	No V	manu?			
Remarks:					
Maintained field.					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)		
Primary Indicators (minimum of one is required; ch	eck all that apply)	Surface Soil (	Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Veg	Sparsely Vegetated Concave Surface (B8)		
	Hydrogen Sulfide Odor (C1)	Drainage Pat			
	Oxidized Rhizospheres on Living F				
1	Presence of Reduced Iron (C4)	· · · · · · · · · · · · · · · · · · ·	Vater Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soi	· · · · · · · · · · · · · · · · · · ·			
Drift Deposits (B3)	Thin Muck Surface (C7)		sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remarks)	Sturiled of Sti	ressed Plants (D1)		
Inundation Visible on Aerial Imagery (B7)		Shallow Aquit			
Water-Stained Leaves (B9)			phic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutral	, ,		
Field Observations:					
	Depth (inches):				
	Depth (inches):				
	Depth (inches):	Wetland Hydrology Present	t? Yes No		
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous inspecti	ons), if available:			
Remarks:					
I .					

Samp	lina	Point:	S-01

20.4	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)
6				That Ale OBE, I AOW, OI I AO.
7				Prevalence Index worksheet:
		= Total Cov		Total % Cover of: Multiply by:
50% of total cover:				OBL species $0   x 1 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft r )	20 /0 01	total covor.		FACW species <u>0</u> x 2 = <u>0</u>
1 Liquidambar styraciflua	5	<b>/</b>	FAC	FAC species 95 x 3 = 285
"			.,,,,	FACU species 11
2		-		UPL species $0 \times 5 = 0$
3				400
4				Column Totals: 106 (A) 329 (B)
5				Prevalence Index = B/A = 3.10
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
9				✓ 2 - Dominance Test is >50%  2 - Dominance Test is >50%
	5 :	= Total Cov	<u></u>	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 2.50		total cover:		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 ft r				data in Remarks or on a separate sheet)
1. Iva annua	85	~	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2 Andropogon virginicus	3		FACU	
3. Coleataenia anceps	2		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Desmodium paniculatum	2	-	FACU	be present, unless disturbed or problematic.
**	2		FACU	Definitions of Four Vegetation Strata:
5. Kummerowia striata				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Paspalum dilatatum	2	-	FAC	more in diameter at breast height (DBH), regardless of
7 <sub>.</sub> Setaria sp.	2			height.
8. Cyperus echinatus	1		FACU	Canling/Chrub Woody plants evaluding vines less
9. Trifolium repens	1		FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10 Xanthium strumarium	1		FAC	m) tall.
11.				
	101	= Total Cov		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>50.50</u>		total cover:		or oles, and wessy plants less than oles it am.
Woody Vine Stratum (Plot size: 30 ft r )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
1 Rubus trivialis	2		FACU	height.
_			. 7100	
2				
3				
4				Hydrophytic
5				Vegetation
		= Total Cov		Present? Yes No No
50% of total cover: 1.00	20% of	total cover:	0.40	
Remarks: (Include photo numbers here or on a separate s	heet.)			1

Profile Desc	ription: (Describe	to the dep	oth needed to docum	nent the	indicator	or confirn	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 1	10YR 3/2	100					Silt Loam	
1 - 12	10YR 4/2	95	10YR 4/6	5	С	<u>M</u>	Silt Loam	
12 - 18	10YR 5/2	98	10YR 4/6	2	С	М	Silt Loam	
-								
_		<u> </u>						
_		-						
	-							
1							2	
'Type: C=Co		letion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		L=Pore Lining, M=Matrix.  ators for Problematic Hydric Soils <sup>3</sup> :
-			Dawle Comford	(07)				•
Histosol	(A1) pipedon (A2)		Dark Surface Polyvalue Be		oo (S8) <b>(N</b>	II D A 1 <i>1</i> 7		cm Muck (A10) <b>(MLRA 147)</b> oast Prairie Redox (A16)
Black Hi			Thin Dark Su				, 146) C	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye	•		47, 140)	Р	iedmont Floodplain Soils (F19)
	Layers (A5)		✓ Depleted Mar		(· <del>-</del> )		<u> </u>	(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark	, ,	<del>-</del> 6)		V	ery Shallow Dark Surface (TF12)
	Below Dark Surfac	e (A11)	Depleted Dar					ther (Explain in Remarks)
Thick Da	rk Surface (A12)		Redox Depre	ssions (F	(8)			
	lucky Mineral (S1) <b>(I</b>	LRR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,		
	147, 148)		MLRA 13				3	
	leyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
-	edox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)  ayer (if observed):		Red Parent N	nateriai (F	-21) (WLR	A 127, 14	7) uni	ess disturbed or problematic.
Type:	ayer (ii observeu).	•						
• • •	ches):						Hydric Soil	Present? Yes V No
Remarks:							11,411.0001	
Nemans.								

Project/Site: Gleason	City/Co	<sub>unty:</sub> Faulkner Coun	nty	Sampling Date: 2024-08-09
Applicant/Owner: Conway Corp		•		S Sampling Point: S-02
Investigator(s):Jimmy Rogers	Section	n, Township, Range: S2	25 T6N R15W	
Landform (hillslope, terrace, etc.): Floodplain				Slope (%): 0
Subregion (LRR or MLRA): N 118A Lat: 35				
Soil Map Unit Name: 16 - Moreland silty clay			NWI classifica	ation:
Are climatic / hydrologic conditions on the site typical for th	nis time of year? Ye	s No (	If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbe	ed? Are "Normal	Circumstances" pr	resent? Yes No
Are Vegetation, Soil, or Hydrology				
SUMMARY OF FINDINGS – Attach site map				
Hydrophytic Vegetation Present? Yes   V	No			
	NO	Is the Sampled Area within a Wetland?	Yes 🗸	No
	No No	within a wetiand?		-
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:				ors (minimum of two required)
Primary Indicators (minimum of one is required; check all			Surface Soil C	
	ue Aquatic Plants (B		Sparsely Veg	etated Concave Surface (B8)
	drogen Sulfide Odor		✓ Drainage Patt	erns (B10)
	adized Knizospheres esence of Reduced I	s on Living Roots (C3)		
1 <del></del>	cent Iron Reduction	` '	Crayfish Burro	Vater Table (C2)
	in Muck Surface (C7		-	sible on Aerial Imagery (C9)
	her (Explain in Rema			ressed Plants (D1)
Iron Deposits (B5)		,	Geomorphic F	
Inundation Visible on Aerial Imagery (B7)			Shallow Aquit	ard (D3)
Water-Stained Leaves (B9)				phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)
Field Observations:				
Surface Water Present? Yes No De				
Water Table Present? Yes No De				.,
Saturation Present? Yes No De (includes capillary fringe)	epth (inches):	Wetland H	ydrology Present	? Yes <u> </u>
Describe Recorded Data (stream gauge, monitoring well,	, aerial photos, previ	ious inspections), if avai	ilable:	
Remarks:				

_			
Samo	lina	Point:	S-02

00.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 5 (A)
2	-			Total Number of Dominant
3				Species Across All Strata: 8 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 62.50 (A/B)
6				That Ale OBE, I AOW, OF I AO.
7				Prevalence Index worksheet:
/·		= Total Cov		Total % Cover of: Multiply by:
50% of total cover:				OBL species 2 x 1 = 2
Sapling/Shrub Stratum (Plot size: 20 ft r )	20 /0 01	total cover.		FACW species 117 x 2 = 234
1. Fraxinus pennsylvanica	80	~	FACW	FAC species 26 x 3 = 78
**	5		FAC	FACU species 32 x 4 = 128
2. Gleditsia triacanthos			1 40	UPL species 0 x 5 = 0
3				
4				Column Totals: <u>177</u> (A) <u>442</u> (B)
5				Prevalence Index = B/A = 2.49
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9.				✓ 2 - Dominance Test is >50%
-	85	= Total Cov	er	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 42.50		total cover:		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 10 ft r				data in Remarks or on a separate sheet)
1. Desmodium paniculatum	25	~	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex cherokeensis	15		FACW	
3. Fraxinus pennsylvanica	10		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 Boehmeria cylindrica	10		FACW	be present, unless disturbed or problematic.
··	10		FAC	Definitions of Four Vegetation Strata:
5. Iva annua				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Vernonia gigantea	5		FAC	more in diameter at breast height (DBH), regardless of
7. Ambrosia trifida	3		FAC	height.
8. Juncus tenuis	3		FAC	Canling/Church Woody plants evaluding vines less
9. Carex lurida	2		OBL	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
<sub>10.</sub> Juncus effusus	2		FACW	m) tall.
11.				Harb All barbassas (non usadis) planta manadisas
	85	= Total Cov		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 42.50		total cover:		
Woody Vine Stratum (Plot size: 15 ft r )				Woody vine – All woody vines greater than 3.28 ft in
1 Smilax bona-nox	5	/	FACU	height.
2 Rubus trivialis	2		FACU	
<del>-:</del>			1 400	
3				
4				Hydrophytic
5				Vegetation
		= Total Cov		Present? Yes No
50% of total cover: 3.50	20% of	total cover:	1.40	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe	to the dep	oth needed to docur	ment the	indicator	or confirm	the absenc	e of indicators.)
Depth	Matrix			x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 16	10YR 5/2	90	10YR 4/6	10	С	PL / M	Silt Loam	
_					- '			
	-							
					_			
					_	_		
-								
		<del></del>						-
		- ——						
-								
				-				
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Maske	d Sand Gi	rains.		PL=Pore Lining, M=Matrix.
<b>Hydric Soil</b>	Indicators:						Indi	cators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue Be	elow Surfa	ace (S8) <b>(I</b>	MLRA 147,	148)	Coast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	ırface (S9	) (MLRA	147, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)			Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Mu	ıck (A10) (LRR N)		Redox Dark	Surface (	F6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da					Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) (I	_RR N,	Iron-Mangan		ses (F12)	(LRR N,		
	A 147, 148)		MLRA 13				2	
	Sleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent I	Material (I	F21) <b>(MLF</b>	RA 127, 147	<b>7)</b> u	nless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric So	il Present? Yes 🗸 No
Remarks:							1	

Project/Site: Gleason	City/County: Faulkner County Sampling Date: 2024-08-09
Applicant/Owner: Conway Corp	Otata Arkansas Ozamilia a Baiata S-03
Investigator(s):Jimmy Rogers	Section, Township, Range: S25 T6N R15W
Landform (hillslope, terrace, etc.): Floodplain	ocal relief (concave, convex, none): None Slope (%): 1
Subregion (LRR or MLRA): N 118A Lat: 35.12312	Long: -92.54251 Datum: WGS 84
	asionally flooded, Arkansas River NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	/ear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally p	oroblematic? (If needed, explain any answers in Remarks.)
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> No	In the Commission Area
Hydric Soil Present? Yes 🗸 No	Is the Sampled Area within a Wetland?  Yes ✓ No
Wetland Hydrology Present? Yes _ V No	
Remarks:	
Previously maintained field, has entered in	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	<del></del>
Surface Water (A1) True Aquatic	Plants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Su  A Court of Research	
	zospheres on Living Roots (C3) Moss Trim Lines (B16)
\ <u> </u>	Reduced Iron (C4) Dry-Season Water Table (C2)  Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck St	
	n in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inche	
Water Table Present? Yes No Depth (inches	
Saturation Present? Yes No Depth (inche (includes capillary fringe)	Wetland Hydrology Present? Yes Vo No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	itos, previous inspections), if available:
Remarks:	

Samn	lina	Point:	S-03
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T 01 1 20 ft r	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	· ·	Species?		Number of Dominant Species
1. Fraxinus pennsylvanica	15		FACW	That Are OBL, FACW, or FAC: 3 (A)
2. Maclura pomifera	5		UPL	Total Number of Dominant
3. Carya illinoinensis	3		FACU	Species Across All Strata: 5 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 60.00 (A/B
6				
7.				Prevalence Index worksheet:
	23	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 11.50				OBL species $0 \times 1 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft r )				FACW species 105 x 2 = 210
1 Fraxinus pennsylvanica	60	<b>✓</b>	FACW	FAC species 13 x 3 = 39
2. Celtis laevigata	5		FACW	FACU species <u>8</u> x 4 = <u>32</u>
3. Gleditsia triacanthos	5		FAC	UPL species <u>5</u> x 5 = <u>25</u>
4. Quercus shumardii	5		FAC	Column Totals: 131 (A) 306 (B)
			1710	(2)
5				Prevalence Index = B/A = $2.33$
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover: <u>37.50</u>	20% of	total cover:	15.00	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5 ft r )				· · · · · · · · · · · · · · · · · · ·
1. Carex cherokeensis	20		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Ampelopsis arborea	5		FACW	
3 Trachelospermum difforme	3			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 Verbesina alternifolia	3		FAC	be present, unless disturbed or problematic.
5.				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6			-	more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>15.50</u>	20% of	total cover:	6.20	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30 ft r )				height.
1. Smilax bona-nox	5		FACU_	
2				
3				
4				Hadranbad's
5.				Hydrophytic Vegetation
	5 .	Total Cov		Present? Yes V No No
50% of total cover: <u>2.50</u>		total cover:		
Remarks: (Include photo numbers here or on a separate s				
Tremains. (include prote numbers here of on a separate s	ncci.)			

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirm	the abse	nce of indicators.)
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	· ·
0 - 10	10YR 4/2	95	10YR 4/4	5	С		Silt Loa	<u>m</u>
_								
		· ——			· <u> </u>	· ——		
					· <del></del>			
-								
			-					
		·			· -	·		
-								
		letion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.		: PL=Pore Lining, M=Matrix.
Hydric Soil							In	dicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	• •		Dark Surface				_	_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma	. ,				(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark	•	,			Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da				_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) (I	RR N,	Iron-Mangan		ses (F12) <b>(</b>	LRR N,		
	A 147, 148)		MLRA 13		(BAL D. 4.6			3
	Gleyed Matrix (S4)		Umbric Surfa					<sup>3</sup> Indicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N	nateriai (F	-21) (WLK	A 127, 147	')	unless disturbed or problematic.
	_ayer (if observed): ard pack soil							
• • • • • • • • • • • • • • • • • • • •								.,
Depth (inc	ches): 10						Hydric	Soil Present? Yes 🔽 No
Remarks:								

Project/Site: Gleason C	ity/County: Faulkner County Sampling Date: 2024-08-09
Applicant/Owner: Conway Corp	State: Arkansas Sampling Point: S-04
Investigator(s):Jimmy Rogers	Section, Township, Range: S25 T6N R15W
Landform (hillslope, terrace, etc.): Terrace/floodplain	al relief (concave, convex, none): None Slope (%): 3
	Long: -92.5422 Datum: WGS 84
Soil Map Unit Name: 24 - Perry clay, 0 to 1 percent slopes, occasion	
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly d	isturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wes Ves No	Is the Sampled Area within a Wetland?  Yes No
Wetland Hydrology Present? Yes No ✓	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Pla	nts (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide	
	oheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Red	· / · · · · · · · · · · · · · · · · · ·
	uction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surfaction Algal Mat or Crust (B4) Other (Explain in	
Iron Deposits (B5)	Geomorphic Position (D2)
Indit Deposite (B5) Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	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):_	
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:
Domorko	
Remarks:	

Samn	lina	Point:	S-04
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20.4	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r )		Species?		Number of Dominant Species	
1. Carya ovata	25		FACU	That Are OBL, FACW, or FAC: 3 (A	١)
2. Carya illinoinensis	15		FACU	Total Number of Dominant	
3. Quercus shumardii	15		FAC	Species Across All Strata: 6	3)
4. Celtis laevigata	10		FACW		
5. Juniperus virginiana	3		FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A	VB)
6				That Ale OBE, I AOW, OI I AO.	VD)
7.				Prevalence Index worksheet:	
	68	= Total Cove		Total % Cover of: Multiply by:	
50% of total cover: 34.00				OBL species 0 x 1 = 0	
Sapling/Shrub Stratum (Plot size: 15 ft r )	20 /0 0.	total covor.		FACW species 10 x 2 = 20	
1. Juniperus virginiana	5	<b>~</b>	FACU	FAC species 25 x 3 = 75	
2. Diospyros virginiana	5		FAC	FACU species 50 x 4 = 200	
	3		FAC	UPL species $0 \times 5 = 0$	
3. Quercus shumardii	2			0.5	(D)
4. Carya cordiformis			FACU	Column Totals: 85 (A) 295	(B)
5				Prevalence Index = B/A = 3.47	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8					
9				2 - Dominance Test is >50%	
	15 :	= Total Cove	<u></u>	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover: 7.50				4 - Morphological Adaptations <sup>1</sup> (Provide suppor	ting
Herb Stratum (Plot size: 5 ft r )				data in Remarks or on a separate sheet)	
1. unidentified sedge	2			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2 Bignonia capreolata	2	-	FAC		
<u></u>				<sup>1</sup> Indicators of hydric soil and wetland hydrology mus	st
3				be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	
5				Tree Mediuments evaluding vines 2 in (7.6 cm	۱ ۵ ۳
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardless	
7				height.	
8					
9				Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft (	SS ′1
10				m) tall.	
11.					
	4	= Total Cove		Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	ess
50% of total cover: 2.00		total cover:		or size, and woody plants less than 5.20 it tall.	
Woody Vine Stratum (Plot size: 30 ft r )	20 /6 01	iolai covei.	0.00	Woody vine - All woody vines greater than 3.28 ft i	in
				height.	
1					
2					
3					
4				Hydrophytic	
5				Vegetation	
		= Total Cove	er	Present? Yes No	
50% of total cover:	20% of	total cover:			
Remarks: (Include photo numbers here or on a separate s		•			
Tromano: (molado prioto hamboro horo or on a coparato o	11001.7				

Profile Desc	ription: (Describe	to the de	oth needed to docur	nent the	indicator	or confirn	n the absence of	indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0 - 1	10YR 3/2	100					Silt Loam	
1 - 8	10YR 5/2	90	10YR 4/6	10	С	М	Silt Loam	
8 - 12	10YR 4/2	98	10YR 4/6	2	С	М		
	-							
								_
	-							
		- ——				· ——		
		letion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.		Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicato	rs for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	e (S7)			2 cm	n Muck (A10) <b>(MLRA 147)</b>
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ace (S8) (N	/ILRA 147	, <b>148)</b> Coas	st Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	ırface (S9	) <b>(MLRA</b> 1	147, 148)	(N	ILRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Pied	mont Floodplain Soils (F19)
Stratified	l Layers (A5)		Depleted Ma	trix (F3)			(N	ILRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface (	F6)		Very	Shallow Dark Surface (TF12)
Depleted	l Below Dark Surfac	e (A11)	Depleted Da	rk Surfac	e (F7)		Othe	er (Explain in Remarks)
Thick Da	rk Surface (A12)		Redox Depre	essions (F	<del>-</del> 8)			
Sandy M	lucky Mineral (S1) <b>(I</b>	LRR N,	Iron-Mangan	ese Mass	ses (F12) <b>(</b>	LRR N,		
	147, 148)		MLRA 13					
	leyed Matrix (S4)		Umbric Surfa					tors of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	<b>48)</b> wetlar	nd hydrology must be present,
	Matrix (S6)		Red Parent N	Material (I	F21) <b>(MLR</b>	A 127, 14	7) unless	s disturbed or problematic.
	ayer (if observed):	:						
,	rd packed soil							
Depth (inc	thes): 12						Hydric Soil Pro	esent? Yes 🗸 No
Remarks:								

Project/Site: Gleason		City/C	County: Faulkner Cour	nty	Sampling Date: 2024-08-09		
Applicant/Owner: Conway Co		,	-		as Sampling Point: S-05		
Investigator(s):Jimmy Rogers		Section			_		
Landform (hillslope, terrace, etc.					Slone (%): 0		
Subregion (LRR or MLRA): N 1	). 18Δ	35 12521			Slope (%) Datum: WGS 84		
Subregion (LRR or MLRA): 11 1	v alay 0 to 1 nare	Lat: 30.12024			· · · · · · · · · · · · · · · · · · ·		
Soil Map Unit Name: 24 - Perry					<u>-                                    </u>		
Are climatic / hydrologic conditio							
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No		
Are Vegetation, Soil	, or Hydrology	naturally problem	atic? (If needed, e	explain any answe	rs in Remarks.)		
SUMMARY OF FINDING	S – Attach sit	te map showing san	npling point locatio	ns, transects	, important features, etc.		
Hydrophytic Vegetation Presen	t2 Yes	No ✔					
Hydric Soil Present?	Yes		Is the Sampled Area	Yes	No 🗸		
Wetland Hydrology Present?	Yes	No ✓	within a Wetland?	165			
Remarks:	<del>-</del>						
Maintained field.							
HYDROLOGY							
Wetland Hydrology Indicator					tors (minimum of two required)		
Primary Indicators (minimum o	f one is required; of			Surface Soil	, ,		
Surface Water (A1)		True Aquatic Plants (		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od		Drainage Par			
Saturation (A3)			res on Living Roots (C3)	Moss Trim Li			
Water Marks (B1)		Presence of Reduce		Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Buri			
Drift Deposits (B3) Algal Mat or Crust (B4)		Thin Muck Surface (( Other (Explain in Rei			sible on Aerial Imagery (C9) tressed Plants (D1)		
Iron Deposits (B5)		Other (Explain in Nei	ilaiks)		Position (D2)		
Inundation Visible on Aeria	l Imagery (B7)			Shallow Aqui			
Water-Stained Leaves (B9				Microtopographic Relief (D4)			
Aquatic Fauna (B13)	,			FAC-Neutral	. , ,		
Field Observations:							
Surface Water Present?	Yes No	Depth (inches):					
Water Table Present?		Depth (inches):					
Saturation Present?		Depth (inches):		lydrology Presen	nt? Yes No		
(includes capillary fringe)	m gauga manitan	ing wall parial photon pro	vieus inspections) if ave	ilabla			
Describe Recorded Data (strea	ım gauge, monitor	ing well, aerial photos, pre	evious inspections), if ava	liable:			
Remarks:							

Samn	lina	Point:	S-05
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20.4	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)
6.				That Ale OBE, I ACW, OI I AC.
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
E00/ of total govern		= Total Cov		OBL species 0 x 1 = 0
50% of total cover:	20% 01	total cover.		FACW species $0   x 2 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft r )				FAC species $73$ $x_3 = 219$
1				FACU species 30
2				ID  species
3				01 L species x 0 =
4				Column Totals: 103 (A) 339 (B)
5				Prevalence Index = B/A = 3.29
6				
7			_	Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9				2 - Dominance Test is >50%
<u></u>		= Total Cov		3 - Prevalence Index is ≤3.0¹
50% of total cover:				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 ft r )	20 /0 0.	total cover		data in Remarks or on a separate sheet)
1 Iva annua	70	~	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Kummerowia striata	25		FACU	
3. Poa annua	5		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 Coleataenia anceps	3		FAC	be present, unless disturbed or problematic.
·				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Herb – All herbaceous (non-woody) plants, regardless
	103	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 51.50		total cover:		
Woody Vine Stratum (Plot size: 30 ft r )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
1				height.
2				
3				
4				Hydrophytic
5				Vegetation Present? Yes No
		= Total Cov		riesent? TesNo
50% of total cover:		total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	cription: (Describe	to the dept	h needed to docur	nent the i	ndicator	or confirm	the abse	ence of indicators.)	
Depth	Matrix		Redo	x Features	3				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	<u> </u>	Remarks
0 - 8	10YR 5/3	100					Silt Lo	am	
		· ———					-		
	-						-		_
-									
		· <del></del>							
		· ——							
	-								_
		<u> </u>							
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion RM=	Reduced Matrix MS	S=Masked	Sand Gra	ins	<sup>2</sup> Locatio	n: PL=Pore Lining,	M=Matrix
Hydric Soil		icuon, ravi	reduced Matrix, Me	- Waskea	Ourid Oil				ematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)				2 cm Muck (A10)	-
	oipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	LRA 147.	148)	Coast Prairie Re	-
	stic (A3)		Thin Dark Su				-, _	(MLRA 147, 1	
	en Sulfide (A4)		Loamy Gleye			. ,	_	Piedmont Floodp	
Stratified	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 1	47)
	ıck (A10) (LRR N)		Redox Dark				_		rk Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dai				_	Other (Explain in	Remarks)
	ark Surface (A12)	DD 11	Redox Depre			DD 11			
	/lucky Mineral (S1) <b>(L</b> <b>\ 147, 148)</b>	LKK N,	Iron-Mangan MLRA 13		es (F12) <b>(</b> I	LKK N,			
	Gleyed Matrix (S4)		Umbric Surfa		MI RA 13	6 122)		<sup>3</sup> Indicators of hydro	phytic vegetation and
	Redox (S5)		Piedmont Flo				I8)	wetland hydrology	
-	Matrix (S6)		Red Parent N					unless disturbed of	-
	Layer (if observed):	1					Í		P
	ard packed soil								
Depth (in			<u></u>				Hydric	Soil Present? Ye	es No <u> </u>
Remarks:							,		
itemarks.									

Project/Site: Gleason	City/County: Faulkner County Sampling Date: 2024-08-09
Applicant/Owner: Conway Corp	State: Arkansas Sampling Point: S-06
Investigator(s) Jimmy Rogers	Section, Township, Range: S25 T6N R15W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, none): None Slope (%): 0
	.78 Long: -92.54549 Datum: WGS 84
Soil Map Unit Name: 16 - Moreland silty clay	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology signific	icantly disturbed?  Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology natura	
	owing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> No _	
Hydric Soil Present? Yes V No	Is the Sampled Area within a Wetland? Yes No ✔
Wetland Hydrology Present? Yes No	Within a Wottana
Remarks:	<del>-</del>
Maintained field.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	apply) Surface Soil Cracks (B6)
	uatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
	n Sulfide Odor (C1) Drainage Patterns (B10)
	Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
	e of Reduced Iron (C4) Dry-Season Water Table (C2)
	ron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) ck Surface (C7) Saturation Visible on Aerial Imagery (C9)
	xplain in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (ir	nches):
Water Table Present? Yes No Depth (ir	nches):
Saturation Present? Yes No Depth (ir (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspections), if available:
Remarks:	

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00.6	Absolute	Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft r )	% Cover	Species?	Status	Number of Dominant Species		
1				That Are OBL, FACW, or FAC: 2 (A)		
2				Total Niverbay of Daminant		
3				Total Number of Dominant Species Across All Strata: 2 (B)		
4		-		Cpcolco / tol coco / till citata.		
				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC: 100.00 (A/B	)	
6				Prevalence Index worksheet:		
7						
	:	= Total Cov	er	Total % Cover of: Multiply by:		
50% of total cover:	20% of	total cover:		OBL species $0 \times 1 = 0$		
Sapling/Shrub Stratum (Plot size: 15 ft r )				FACW species $2   x 2 = 4$		
1 Diospyros virginiana	5	<b>✓</b>	FAC	FAC species 80 x 3 = 240		
"				FACU species 23 x 4 = 92		
2				UPL species $0 \times 5 = 0$		
3				105		
4				Column Totals: 105 (A) 336 (B)		
5				Prevalence Index = B/A = 3.20		
6			_		_	
7				Hydrophytic Vegetation Indicators:		
				1 - Rapid Test for Hydrophytic Vegetation		
8				✓ 2 - Dominance Test is >50%		
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>		
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supportin		
50% of total cover: 2.50	20% of	total cover:	1.00		9	
Herb Stratum (Plot size: 5 ft r )				data in Remarks or on a separate sheet)		
1. Iva annua	70	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2. Kummerowia striata	10		FACU			
3 Andropogon virginicus	10		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
				be present, unless disturbed or problematic.		
4. Paspalum dilatatum	5		FAC	Definitions of Four Vegetation Strata:	_	
<sub>5.</sub> Setaria sp.	5					
6. Cyperus echinatus	3		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o		
7 Cyperus strigosus	2	-	FACW	more in diameter at breast height (DBH), regardless o		
				height.		
8				Sapling/Shrub – Woody plants, excluding vines, less		
9		-		than 3 in. DBH and greater than or equal to 3.28 ft (1		
10				m) tall.		
11				<b>Herb</b> – All herbaceous (non-woody) plants, regardless	,	
	105	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.	,	
50% of total cover: <u>52.50</u>		total cover:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Woody Vine Stratum (Plot size: 30 ft r )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in		
				height.		
1						
2						
3						
4				Hadaaalada		
5.			,	Hydrophytic Vegetation		
<u> </u>				Present? Yes No		
EOO/ of total across		= Total Cov				
50% of total cover:		total cover:				
Remarks: (Include photo numbers here or on a separate s	heet.)					
					- 1	

Profile Desc	ription: (Describe	to the de	oth needed to docum	nent the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix			x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 5	10YR 3/3	95	10YR 4/4	5	D	M	Silt Loam	
5 - 12	10YR 4/2	95	10YR 4/6	5	С	М	Silt Loam	
_		- <u> </u>			<u> </u>			
				-				-
	-	- ——			-	<del></del>		
-								
		·						
					-	·		
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I			·					ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ace (S8) <b>(N</b>	/ILRA 147	, 148) (	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su	ırface (S9	) <b>(MLRA</b> '	147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		F	Piedmont Floodplain Soils (F19)
	l Layers (A5)		✓ Depleted Mar					(MLRA 136, 147)
	ck (A10) (LRR N)	(8.4.4)	Redox Dark S	•				/ery Shallow Dark Surface (TF12)
	Below Dark Surfac	e (A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12) lucky Mineral (S1) <b>(I</b>	DD N	Redox Depre			IDDN		
-	147, 148)	-NN N,	MLRA 13		565 (I 12) <b>(</b>	LKK N,		
	leyed Matrix (S4)		Umbric Surfa		(MLRA 13	36. 122)	<sup>3</sup> Inc	licators of hydrophytic vegetation and
-	ledox (S5)		Piedmont Flo					etland hydrology must be present,
-	Matrix (S6)		Red Parent N					lless disturbed or problematic.
Restrictive I	ayer (if observed):			-				-
<sub>Type:</sub> Ha	rd packed soil							
Depth (inc	ches): 12						Hydric Soil	Present? Yes V No No
Remarks:								
T to mainter								

Project/Site: Gleason	City/County: Faulkner County Sampling Date: 2024-08-09
Applicant/Owner: Conway Corp	State: Arkansas Sampling Point: S-07
Investigator(s):Jimmy Rogers	Section, Township, Range: S25 T6N R15W
	cal relief (concave, convex, none): None Slope (%): 2
	Long:92.54572
Soil Map Unit Name: 16 - Moreland silty clay	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland?  Yes  No ✓
Wetland Hydrology Present? Yes No ✔	within a Wetland? Yes No
Remarks:	
Upper terrace.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic P	ants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfi	
	spheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Re	<u> </u>
	duction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surf	
Algal Mat or Crust (B4) Other (Explain Iron Deposits (B5)	in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	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)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
Damada	
Remarks:	

Sami	olina	Point:	S-07
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Remarks: (Include photo numbers here or on a separate s	heet.)			
50% of total cover:		= Total Cov total cover:		Present? Yes No
5				Vegetation Present? Yes No _
4				Hydrophytic
3				
2				
1				
Woody Vine Stratum (Plot size: 30 ft r )				height.
50% of total cover: 12.00	20% of	total cover:	4.80	Woody vine – All woody vines greater than 3.28 ft in
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
11				Herb – All herbaceous (non-woody) plants, regardless
10				m) tall.
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
8				Sapling/Shrub – Woody plants, excluding vines, less
7				height.
6				more in diameter at breast height (DBH), regardless of
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				Definitions of Four Vegetation Strata:
3. Sassafras albidum			FACU	be present, unless disturbed or problematic.
2. Parthenocissus quinquefolia	2		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Carex sp.	20		FACU	
Herb Stratum (Plot size: 5 ft r )	20	~	FAC	Problematic Hydrophytic Vegetation¹ (Explain)
50% of total cover: 12.50	20% of	total cover:	5.00	data in Remarks or on a separate sheet)
		= Total Cov		4 - Morphological Adaptations¹ (Provide supporting
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
8				2 - Dominance Test is >50%
7				1 - Rapid Test for Hydrophytic Vegetation
6				Hydrophytic Vegetation Indicators:
5				Prevalence Index = B/A = 3.55
4				Column Totals: <u>89</u> (A) <u>316</u> (B)
3. Ulmus alata	5		FACU	of Lapecies xa =
2. Aesculus pavia	5		FAC	1 AGG Species X +
1. Carya cordiformis	15		FACU	AC species X5 =
Sapling/Shrub Stratum (Plot size: 15 ft r )				FACW species $\frac{5}{30}$ $\times 2 = \frac{10}{90}$
50% of total cover: 22.50	20% of	total cover:	9.00	OBL species $0 \times 1 = 0$
		= Total Cov		Total % Cover of: Multiply by:
7				Prevalence Index worksheet:
6				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 40.00 (A/B)
4. Quercus sp.	5			Percent of Deminant Species
3. Liquidambar styraciflua	5		FAC	Species Across All Strata: 5 (B)
2. Celtis laevigata	5		FACW	Total Number of Dominant
1. Carya cordiformis	30		FACU	That Are OBL, FACW, or FAC: 2 (A)
Tree Stratum (Plot size: 30 ft r )		Species?		Number of Dominant Species
	Absolute	Dominant	Indicator	Dominance Test worksheet:

Profile Desc	ription: (Describe	to the depth	needed to document the indic	ator or confirm	the absence	e of indicators.)
Depth	Matrix		Redox Features			
(inches)	Color (moist)	%		pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0 - 3	10YR 3/3	100			Silt Loam	
3 - 8	10YR 4/3	100			Silt Loam	
-						
		<del></del>		<del></del>		
		- <del></del> -				
1Type: C=C	oncentration D=Der	letion RM=F	Reduced Matrix, MS=Masked Sar	nd Grains	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil		neuon, Kivi-r	Reduced Matrix, MS-Masked Sai	iu Giailis.		eators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)			2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Below Surface (\$7)	S8) (MI RA 147		Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Surface (S9) (MI		. +0, (	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	2107 147, 140,	F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)			(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface (F6)		,	/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7	)		Other (Explain in Remarks)
	ark Surface (A12)	,	Redox Depressions (F8)	,		,
	Mucky Mineral (S1) (	LRR N,	Iron-Manganese Masses (F	12) <b>(LRR N,</b>		
	A 147, 148)		MLRA 136)	, ,		
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLF	RA 136, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodplain Soils			etland hydrology must be present,
Stripped	Matrix (S6)		Red Parent Material (F21)	(MLRA 127, 147	ur	nless disturbed or problematic.
	Layer (if observed)					
<sub>Type:</sub> ha	rd packed soil					
Depth (in					Hydric Soi	I Present? Yes No <u>✓</u>
Remarks:					,	
remans.						

Project/Site: Gleason	ity/County: Faulkner County Sampling Date: 2024-08-09
Applicant/Owner: Conway Corp	State: Arkansas Sampling Point: S-08
Investigator(s).Jimmy Rogers	Section, Township, Range: S25 T6N R15W
Landform (hillslope, terrace, etc.): Terrace/floodplain Local	al relief (concave, convex, none): None Slope (%): 2
	Long: -92.54597 Datum: WGS 84
	nally flooded, Arkansas River NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly d	isturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   No   Yes   No   No	Is the Sampled Area within a Wetland?  Yes No
Remarks:	
Lower terrace.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Pla	
High Water Table (A2) Hydrogen Sulfide	
	oheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Red	· / · · · · · · · · · · · · · · · · · ·
	uction in Tilled Soils (C6) Crayfish Burrows (C8)
✓ Drift Deposits (B3) Thin Muck Surfa	
Algal Mat or Crust (B4) Other (Explain in	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Geomorphic Position (D2) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Silaliow Aquitaru (D3) Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	The House Took (20)
Surface Water Present? Yes No Depth (inches):	
Water Table Present?  Yes No Depth (inches):	
Saturation Present?  Yes No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:
Remarks:	
Remarks.	

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Jann	JIII IU	r Oll It.	

20.4	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species	
1. Celtis laevigata	20		FACW	That Are OBL, FACW, or FAC: 4 (A)	1
2				Total Number of Dominant	
3				Species Across All Strata: 6 (B)	,
4					
5				Percent of Dominant Species That Are OBL FACW or FAC: 66.66 (A/I	(D)
				That Are OBL, FACW, or FAC: 66.66 (A/I	B)
6				Prevalence Index worksheet:	
7	20 :			Total % Cover of: Multiply by:	
T00/ 6/ / 10 00		= Total Cov		OBL species $0$ $x 1 = 0$	
50% of total cover: 10.00	20% of	total cover:	4.00	FACW species 50 x 2 = 100	
Sapling/Shrub Stratum (Plot size: 15 ft r					
1. Ilex decidua	30		FACW	1 AO species X 0	
2. Cornus drummondii	5		FAC	FACU species 15 x 4 = 60	
3. Juniperus virginiana	3		FACU	UPL species <u>5</u>	
4				Column Totals: <u>93</u> (A) <u>254</u> (B	3)
5				0.70	
				Prevalence Index = B/A = 2.73	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporti	ina
50% of total cover: 19.00	20% of	total cover:	7.60	data in Remarks or on a separate sheet)	119
Herb Stratum (Plot size: 5 ft r )					
1. Carex sp.	10	~		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2 Sanicula canadensis	5	~	UPL		
3. Bignonia capreolata	3		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
4 Sassafras albidum	2		FACU	be present, unless disturbed or problematic.	
"				Definitions of Four Vegetation Strata:	
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	or
6				more in diameter at breast height (DBH), regardless of	
7				height.	
8				Continue/Charle Mondy plants avaluating vines less	_
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1	5
10				m) tall.	
11.					
· ··· <u> </u>	20	= Total Cov		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.	SS
50% of total cover: 10.00		total cover:		or size, and woody plants loss than 5.25 it tall.	
Woody Vine Stratum (Plot size: 30 ft r )	2070 01	total cover.		Woody vine – All woody vines greater than 3.28 ft in	1
1. Toxicodendron radicans	10	~	FAC	height.	
Dulana tribitalia	5				
2. Rubus trivialis			FACU		
3. Vitis rotundifolia	5		FAC		
4. Parthenocissus quinquefolia	3		F <u>ACU</u>	Hydrophytic	
5. Lonicera japonica	2		FACU	Vegetation	
	25	= Total Cov	er	Present? Yes V No	
50% of total cover: 12.50		total cover:			
Remarks: (Include photo numbers here or on a separate si		•	,		
Tremains. (include prote numbers here of on a separate si	noct.)				

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix			x Feature		. 2		
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	
0 - 3	10YR 3/2	100					Silt Loam	• •————
3 - 10	10YR 3/3	100					Silt Loam	
10 - 18	10YR 4/4	100					Silt Loam	
-								
	-	· <del></del> -						
		· <del></del> -						
								-
	-	·						
								· -
	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil I								cators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface		(0.5)			2 cm Muck (A10) (MLRA 147)
	nipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
Black His	stic (A3) n Sulfide (A4)		Thin Dark Su Loamy Gleye		•	47, 148)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	I Layers (A5)		Depleted Ma		1 2)			(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark S		<sup>-</sup> 6)			Very Shallow Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar		. ,			Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) <b>(L</b>	.RR N,	Iron-Mangan		es (F12) <b>(</b> I	₋RR N,		
	<b>147, 148)</b> sleyed Matrix (S4)		MLRA 13		MI RΔ 13	6 122)	<sup>3</sup> In	dicators of hydrophytic vegetation and
	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					nless disturbed or problematic.
	ayer (if observed):		<del></del>	•				·
Type:								
Depth (inc	ches):						Hydric So	il Present? Yes No 🗸
Remarks:							1	

Project/Site: Gleason	City/County: Faulkner Co	unty S	Sampling Date: 2024-08-09	
Applicant/Owner: Conway Corp				
Investigator(s). Jimmy Rogers	Section, Township, Range:_	S36 T6N R15W		
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, r	none): None	Slope (%): 0	
Subregion (LRR or MLRA): N 118A L				
Soil Map Unit Name: 16 - Moreland silty clay		NWI classificat	ion:	
Are climatic / hydrologic conditions on the site typica	I for this time of year? Yes No	_ (If no, explain in Rer	marks.)	
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Norm	nal Circumstances" pre	esent? Yes No _	
Are Vegetation, Soil, or Hydrology		, explain any answers		
SUMMARY OF FINDINGS – Attach site				
Hydrophytic Vegetation Present? Yes	No			
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes  Yes	Is the Sampled Area		No. 4	
Wetland Hydrology Present?	No within a Wetland?	Yes	No <u> </u>	
Remarks:				
Maintained field.				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicato	ors (minimum of two required)	
Primary Indicators (minimum of one is required; che	eck all that apply)	Surface Soil Cr	racks (B6)	
	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)		
	Hydrogen Sulfide Odor (C1)	Drainage Patte		
	_ Oxidized Rhizospheres on Living Roots (C3			
<u> </u>	Presence of Reduced Iron (C4)		ater Table (C2)	
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrov		
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C7) Other (Explain in Remarks)		ble on Aerial Imagery (C9) essed Plants (D1)	
Iron Deposits (B5)		Geomorphic Po	` '	
Inundation Visible on Aerial Imagery (B7)		Shallow Aquita		
Water-Stained Leaves (B9)		Microtopograph		
Aquatic Fauna (B13)		FAC-Neutral Te	est (D5)	
Field Observations:				
	Depth (inches):			
	Depth (inches):			
Saturation Present? Yes No  (includes capillary fringe)	Depth (inches): Wetland	I Hydrology Present?	? Yes No	
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous inspections), if a	vailable:		
Remarks:				

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70 to 10 to 20 ft r	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r ) 1	% Cover			Number of Dominant Species That Are OBL, FACW, or FAC: 2 (	(A)
2				That / We OBE, 1 / NOW, 01 1 / No.	(71)
3				Total Number of Dominant Species Across All Strata: 3 (	(B)
4				Percent of Dominant Species	
5					(A/B)
6				Prevalence Index worksheet:	
7					
		= Total Cov			
50% of total cover:	20% of	total cover:			
Sapling/Shrub Stratum (Plot size: 15 ft r	•			FACW species $0$ $x = 0$	
1. Gleditsia triacanthos	3		FAC	FAC species $\frac{46}{45}$ $\times 3 = \frac{138}{180}$	
2				17100 opecies x :	
3				01 L species x 5 =	
4				Column Totals: 91 (A) 318	(B)
5				Prevalence Index = B/A = 3.49	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
450		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide suppo	orting
·	20% of	total cover:	0.00	data in Remarks or on a separate sheet)	•
Herb Stratum (Plot size: 5 ft r )	20		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	)
1. Coleataenia anceps	20		FAC		,
2. Iva annua	20			<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ıst
3. Kummerowia striata	20		FACU	be present, unless disturbed or problematic.	101
4. Andropogon virginicus	10		FACU	Definitions of Four Vegetation Strata:	
5. Cynodon dactylon	10		FACU	Tree Meady plants avaluation vines 2 in /7 C or	\
6. Setaria sp.	5			Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles	ss of
7. Trifolium repens	5		FACU	height.	
8. Ambrosia trifida	3		FAC	Sapling/Shrub – Woody plants, excluding vines, le	<b>229</b>
<sub>9.</sub> Solidago sp.	3			than 3 in. DBH and greater than or equal to 3.28 ft	t (1
10				m) tall.	
11				Herb – All herbaceous (non-woody) plants, regard	less
		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
	20% of	total cover:	19.20	Woody vine – All woody vines greater than 3.28 ft height.	t in
1					
2					
3					
4				Hydrophytic	
5				Vegetation	
		= Total Cov	er	Present? Yes No	
50% of total cover:	20% of	total cover:			
Remarks: (Include photo numbers here or on a separate s	heet.)				

Profile Desc	cription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirm	n the abse	nce of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textur	e Remarks
0 - 12	10YR 4/2	100					Silt Loa	am
-								
-								
							-	
-								
							-	
	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ins.		n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Ir	ndicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			_	_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	LRA 147,	, 148)	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				_	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			•	_	_ Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark S	Surface (F	6)		_	_ Very Shallow Dark Surface (TF12)
Deplete	d Below Dark Surfac	e (A11)	Depleted Dar	k Surface	(F7)		_	_ Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F	3)			
Sandy N	Mucky Mineral (S1) (I	LRR N,	Iron-Mangan	ese Masse	es (F12) <b>(</b> I	_RR N,		
MLR	A 147, 148)		MLRA 13	6)				
Sandy C	Sleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b>	MLRA 13	6, 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>48</b> )	wetland hydrology must be present,
Stripped	l Matrix (S6)		Red Parent N	faterial (F	21) <b>(MLR</b>	<b>4</b> 127, 147	7)	unless disturbed or problematic.
	Layer (if observed):							
Type: Ha	ard packed soil		<u></u>					
Depth (in	ches): 12						Hydric	Soil Present? Yes No 🗸
Remarks:	<u> </u>							

Project/Site: Gleason	City/County: Faulkner County Sampling Date: 2024-08-09
	State: Arkansas Sampling Point: S-10
Investigator(s): Jimmy Rogers Section, Township, Range: S36 T6N R15W	
	cal relief (concave, convex, none): None Slope (%): 0
	Long:92.54691 Datum: WGS 84
Soil Map Unit Name: 16 - Moreland silty clay NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significantly disturbed?	
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	
Hydrophytic Vegetation Present? Yes <u>✓</u> No	
Hydric Soil Present?  Yes  No	Is the Sampled Area within a Wetland? Yes  No
Wetland Hydrology Present? Yes ✓ No	within a Wetland? Yes No
Remarks:	
Previously maintained field, has entered into succession.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  V Surface Soil Cracks (B6)	
Surface Water (A1) True Aquatic P	
High Water Table (A2)  Hydrogen Sulfin	
Saturation (A3) Moss Trim Lines (B16) Moss Trim Lines (B16) Water Marks (B4) Processes of Reduced Iron (C4) Processes (C3)	
Water Marks (B1)	
Sediment Deposits (B2) Necestit in Neededition in Timed Soils (C6) Staturation Visible on Aerial Imagery (C9)	
Algal Mat or Crust (B4) Other (Explain	
Iron Deposits (B5) Geomorphic Position (D2)	
Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3)	
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	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:	

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20.4	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r )		Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 2	۹)
2				Total Number of Dominant	
3				Species Across All Strata: 2 (E	3)
4					,
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A	4/B)
6.				That Are OBE, I ACW, OF I AC.	~\b)
_				Prevalence Index worksheet:	
<i>1</i>		= Total Cove		Total % Cover of: Multiply by:	
50% of total cover:				OBL species $0   x 1 = 0$	
·	20 /0 01	iolai covei.		FACW species 141 x 2 = 282	
Sapling/Shrub Stratum (Plot size: 15 ft r )  1. Fraxinus pennsylvanica	60	~	FACW	FAC species 20 x 3 = 60	
	15		FAC	FACU species $\frac{7}{28}$	
2. Gleditsia triacanthos				UPL species $0 \times 5 = 0$	
3. Andropogon virginicus	5		FACU	400 070	(D)
4. Diospyros virginiana	5		FAC	Column Totals: <u>168</u> (A) <u>370</u>	(B)
<sub>5.</sub> Setaria sp.				Prevalence Index = B/A = 2.20	
6. Cyperus eragrostis	1		FACW	Hydrophytic Vegetation Indicators:	
7. Parthenocissus quinquefolia	1		FACU	✓ 1 - Rapid Test for Hydrophytic Vegetation	
8. Solanum carolinense	1		FACU	✓ 2 - Dominance Test is >50%	
9.					
	90	= Total Cove	er	✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover: 45.00				4 - Morphological Adaptations <sup>1</sup> (Provide suppo	rting
Herb Stratum (Plot size: 5 ft r )		-		data in Remarks or on a separate sheet)	
1 Carex cherokeensis	80	<b>✓</b>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2					
				<sup>1</sup> Indicators of hydric soil and wetland hydrology mus	st
3				be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm	ı) or
6				more in diameter at breast height (DBH), regardless	
7				height.	
8				Sapling/Shrub – Woody plants, excluding vines, le	ess
9				than 3 in. DBH and greater than or equal to 3.28 ft	(1
10				m) tall.	
11				Herb – All herbaceous (non-woody) plants, regardle	ess
	80 :	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.	
50% of total cover: 40.00	20% of	total cover:	16.00	Woody vine – All woody vines greater than 3.28 ft	in
Woody Vine Stratum (Plot size: 30 ft r )				height.	""
1					
2					
3					
4					
5				Hydrophytic Vegetation	
<u>.                                    </u>		= Total Cove		Present? Yes V No No	
50% of total cover:					
Remarks: (Include photo numbers here or on a separate sl		total cover.			
Remarks. (include prioto numbers here of on a separate si	neet.)				

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 8	7.5R 4/1	90	7.5YR 4/4	10	С	PL / M	Silty Clay Loam	
8 - 16	10YR 4/1	97	7.5YR 4/6	3	С	М	Silty Clay Loam	
						<del></del>		
-								
							-	
1Type: C=C	oncontration D=Dar	olotion DM	=Doduced Matrix MS		d Sand Cr	roine	<sup>2</sup> Location: D	L = Doro Lining M=Motrix
Hydric Soil		pietion, Rivi	=Reduced Matrix, MS	s=iviaske	a Sana Gr	ains.		L=Pore Lining, M=Matrix. ators for Problematic Hydric Soils <sup>3</sup> :
_			Dawle Confess	(07)				•
Histosol			Dark Surface		(CO) <b>/</b>	ALDA 447		cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be				148) (	Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su			147, 140)	Б	(MLRA 147, 148)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye  Depleted Ma		(FZ)		r	Piedmont Floodplain Soils (F19) (MLRA 136, 147)
	uck (A10) <b>(LRR N)</b>		Redox Dark	. ,	E6)		V	/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	- (Δ11)	Depleted Dai					Other (Explain in Remarks)
	ark Surface (A12)	<i>(</i> ( <i>A</i> 1 1)	Redox Depre				_ `	other (Explain in Remarks)
	lucky Mineral (S1) (	LRR N.	Iron-Mangan			LRR N.		
	A 147, 148)	,	MLRA 13		500 (i 12) (			
	Gleyed Matrix (S4)		Umbric Surfa	•	(MLRA 1	36. 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N					less disturbed or problematic.
	Layer (if observed)	:			/ (	,	Í	, , , , , , , , , , , , , , , , , , ,
Type:	, ,							
	ches):						Hydric Soil	Present? Yes V No
	Ciles).						Tiyunc 3011	Tresent: resNo
Remarks:								

Project/Site: Gleason	City/County: Faulkne	er County	Sampling Date: 2024-09-04	
Applicant/Owner: Conway Corp		State: Arkansas		
Investigator(s): Jimmy Rogers	Section, Township, Rai	nge: S36 T6N R15W		
Landform (hillslope, terrace, etc.): Floodplain			Slope (%): 0	
Subregion (LRR or MLRA): N 118A Lat:				
Soil Map Unit Name: 16 - Moreland silty clay		NWI classifica	tion:	
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes <a>V</a> No	(If no, explain in Re	marks.)	
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "	"Normal Circumstances" pro	esent? Yes No _	
Are Vegetation, Soil, or Hydrology		eeded, explain any answers		
SUMMARY OF FINDINGS – Attach site ma				
Hydrophytic Vegetation Present? Yes	No 🗸 Is the Sampled	I Area		
Hydric Soil Present?	NO — within a Wetlan		No 🗸	
Wetland Hydrology Present? Yes	No <u>v</u>			
Maintained field.				
HYDROLOGY				
Wetland Hydrology Indicators:		<u></u>	ors (minimum of two required)	
Primary Indicators (minimum of one is required; check		Surface Soil C		
	Frue Aquatic Plants (B14)		etated Concave Surface (B8)	
	Hydrogen Sulfide Odor (C1)	Drainage Patte		
	Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4)			
	Recent Iron Reduction in Tilled Soils (	Dry-Season Water Table (C2) Is (C6) Crayfish Burrows (C8)		
	Thin Muck Surface (C7)		ible on Aerial Imagery (C9)	
	Other (Explain in Remarks)		essed Plants (D1)	
Iron Deposits (B5)	,	Geomorphic P	, ,	
Inundation Visible on Aerial Imagery (B7)		Shallow Aquita		
Water-Stained Leaves (B9)		Microtopograp		
Aquatic Fauna (B13)		FAC-Neutral T	est (D5)	
Field Observations:				
	Depth (inches):			
	Depth (inches):		_	
Saturation Present? Yes No No	Depth (inches): We	etland Hydrology Present	? Yes No	
Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previous inspections	s), if available:		
Remarks:				
Tremano.				

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00.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20 ft r )	% Cover			Number of Dominant Species
1,				That Are OBL, FACW, or FAC: $2$ (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50.00 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	:			OBL species 0 x 1 = 0
50% of total cover:	20% of	total cover	:	FACW species $\frac{30}{x^2}$ $x^2 = \frac{60}{x^2}$
Sapling/Shrub Stratum (Plot size: 20 ft r )				FAC species 27 x 3 = 81
1				FACU species 45 x 4 = 180
2				
3				
4				Column Totals: <u>104</u> (A) <u>331</u> (B)
5				Prevalence Index = B/A = 3.18
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	:	= Total Co	ver	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20% of	total cover	:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5 ft r )				• • • • • • • • • • • • • • • • • • • •
<sub>1.</sub> Cynodon dactylon	20		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Cyperus strigosus	20		FACW	1
3. Iva annua	20		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Poa annua	20		FACU	Definitions of Four Vegetation Strata:
<sub>5.</sub> Cyperus eragrostis	5		FACW	Deminions of Four Vegetation Strata.
6. Diodia virginiana	5		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7. Echinochloa crus-galli	5		FAC	more in diameter at breast height (DBH), regardless of height.
8 Kummerowia striata	3		FACU	
g Eclipta prostrata	2		FAC	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10 Sida spinosa	2	-	UPL	m) tall.
11. Trifolium repens	2		FACU	, '
111.	10.4	= Total Co		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 52.00		total cover		
Woody Vine Stratum (Plot size: 20 ft r )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
1				height.
2			<del></del>	
3		-	<del></del>	
4				
_			<del></del>	Hydrophytic
5		= Total Co		Vegetation Present?  Yes No   ✓
50% of total cover:				
Remarks: (Include photo numbers here or on a separate s		total cover	•	
remarks. (include prioto numbers here of on a separate s	neet.)			

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	indicator	or confirn	n the absence	e of indicators.)
Depth	Matrix	-	Redo	x Feature	S			•
(inches)	Color (moist)	<u></u> %	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 2	10YR 3/2	100					Silt Loam	
2 - 12	10YR 4/2	95	10YR 4/6	5	С	M	Silt Loam	
12 - 18	10YR 6/2	90	10YR 4/6	10	С	M	Silt Loam	
-								
							-	
¹Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil I		•	•					cators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	e (S7)			2	2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be				148) (	Coast Prairie Redox (A16)
Black His			Thin Dark Su	•		47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		'	Piedmont Floodplain Soils (F19)
	Layers (A5)		<u>✓</u> Depleted Ma	. ,	-0)			(MLRA 136, 147)
	ck (A10) <b>(LRR N)</b> I Below Dark Surface	- (Λ11)	Redox Dark					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	rk Surface (A12)	= (A11)	Redox Depre				— '	Other (Explain in Remarks)
	lucky Mineral (S1) <b>(L</b>	.RR N,	Iron-Mangan			LRR N,		
-	147, 148)	,	MLRA 13		( )(	,		
	leyed Matrix (S4)		Umbric Surfa		(MLRA 13	6, 122)	<sup>3</sup> In	dicators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>18)</b> w	etland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F	21) <b>(MLR</b>	A 127, 147	<b>7)</b> uı	nless disturbed or problematic.
Restrictive L	.ayer (if observed):							
Type:								,
Depth (inc	ches):						Hydric Soi	il Present? Yes 🗸 No
Remarks:								

Project/Site: Gleason	City/County: Faulkner County Sampling Date: 2024-09-04
	State: Arkansas Sampling Point: S-12
	Section, Township, Range: S36 T6N R15W
Landform (hillslope, terrace, etc.): Floodplain Loc	cal relief (concave, convex, none): None Slope (%): 0
	Long:92.54845 Datum: WGS 84
Soil Map Unit Name: 16 - Moreland silty clay	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes V No	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes  Yes  No  No	Is the Sampled Area
Wetland Hydrology Present? Yes ✓ No	within a Wetland? Yes No
Remarks:	
Previously maintained field, has entered int	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Pl	
High Water Table (A2) Hydrogen Sulfic	
	spheres on Living Roots (C3) Moss Trim Lines (B16)
\ <u> </u>	duced Iron (C4) Dry-Season Water Table (C2) duction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surfa	
Algal Mat or Crust (B4) Other (Explain i	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	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 photo	s, previous inspections), if available:
Remarks:	

Sampl	ina	Point:	S-12
Sallibi	II IU	FUILL.	٠

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 10 ft r )		Species?		Number of Dominant Species	
1					(A)
2					,
				Total Number of Dominant Species Across All Strata: 4	(D)
3	-	-		Species Across All Strata: 4	(B)
4				Percent of Dominant Species	
5					(A/B)
6					
7				Prevalence Index worksheet:	
		= Total Cov	er	Total % Cover of: Multiply by:	
50% of total cover:	20% of	total cover:		OBL species 10 x 1 = 10	
Sapling/Shrub Stratum (Plot size: 10 ft r				FACW species <u>85</u> x 2 = <u>170</u>	
1. Fraxinus pennsylvanica	75	~	FACW	FAC species 25 x 3 = 75	
**	10		FAC	FACU species 3	
2. Gleditsia triacanthos		-	IAC	UPL species $0$ $x = 0$	
3					
4				Column Totals: <u>123</u> (A) <u>267</u>	(B)
5				Prevalence Index = B/A = 2.17	
6					
				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0¹	
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide suppo	ortina
50% of total cover: <u>42.50</u>	20% of	total cover:	17.00	data in Remarks or on a separate sheet)	Ji tili 19
Herb Stratum (Plot size: 5 ft r )				' '	
1. Iva annua	15	~	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	)
2 Carex frankii	10	~	OBL		
3. Fraxinus pennsylvanica	10		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ust
4 Ulmus alata	3		FACU	be present, unless disturbed or problematic.	
"				Definitions of Four Vegetation Strata:	
5				Tree Mondy plants evaluding vince 2 in /7 6 or	m) or
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles	
7				height.	30 01
8					
				Sapling/Shrub – Woody plants, excluding vines, l	
9				than 3 in. DBH and greater than or equal to 3.28 ft m) tall.	: (1
10				m) tan.	
11				Herb – All herbaceous (non-woody) plants, regard	less
		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: 19.00	20% of	total cover:	7.60	Woody vine – All woody vines greater than 3.28 ft	tin
Woody Vine Stratum (Plot size: 10 ft r )				height.	. 111
1				112.9.11	
2.					
3					
4				Hydrophytic	
5				Vegetation	
		= Total Cov	er	Present? Yes No	
50% of total cover:	20% of	total cover:			
Remarks: (Include photo numbers here or on a separate si	heet.)				
` '	,				

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ment the	indicator	or confirn	n the absenc	e of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 18	7.5YR 4/1	90	7.5R 4/4	10	С	М	Silty Clay	
_								
		·			_			-
							-	
					_			
-								
		·			_		•	
					_			
-								
					_			
		letion, RM	=Reduced Matrix, M	S=Maske	d Sand Gi	rains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indi	cators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface					2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	elow Surfa	ace (S8) <b>(I</b>	MLRA 147,	, 148)	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su	urface (S9	9) <b>(MLRA</b>	147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)			Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma					(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark	,	,			Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da					Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) (I	_RR N,	Iron-Mangan		ses (F12)	(LRR N,		
	\ 147, 148)		MLRA 13		/BAL D.A. 4/	00 400)	31	dia da sa af la colora de dia consulativa a sa d
	Sleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent I	viateriai (	F21) (WILF	KA 127, 14	<i>7</i> ) u	nless disturbed or problematic.
	_ayer (if observed):							
• • •								
Depth (in	ches):						Hydric So	il Present? Yes No
Remarks:								

Project/Site: Gleason	City/County: Faulkner Cou	Inty Sampling Date: 2024-08-21		
Applicant/Owner: Conway Corp		State: Arkansas Sampling Point: S-13		
Investigator(s):Jimmy Rogers	Section, Township, Range:_S			
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, no	one): None Slope (%): 1		
Subregion (LRR or MLRA): N 118A				
Soil Map Unit Name: 16 - Moreland silty clay	1	NWI classification:		
Are climatic / hydrologic conditions on the site typical	al for this time of year? Yes No	(If no, explain in Remarks.)		
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Norma	al Circumstances" present? Yes No		
Are Vegetation, Soil, or Hydrology _		explain any answers in Remarks.)		
		ons, transects, important features, etc.		
Hydrophytic Vegetation Present?	/ No Is the Sampled Area			
Hydric Soil Present? Yes	— No vithin a Wetland?	Yes No <u>/</u>		
Wetland Hydrology Present? Yes	No			
Historically disturbed area.  HYDROLOGY				
		Secondary Indicators (minimum of two required)		
Wetland Hydrology Indicators:	acok all that apply)	Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; ch Surface Water (A1)	True Aquatic Plants (B14)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li></ul>		
· · ·	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
	<ul><li>Oxidized Rhizospheres on Living Roots (C3)</li></ul>			
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)			
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)		
Iron Deposits (B5)		Geomorphic Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)		
Water-Stained Leaves (B9)		Microtopographic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutral Test (D5)		
Field Observations:  Surface Water Present? Yes No	Depth (inches):			
	Depth (inches):			
	<u> </u>	Hydrology Present? Yes No		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspections), if ava	ailable:		
Remarks:				

Sampling F	Point:	S-13
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20.4	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r )	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 3 (A	١)
2				Total Number of Dominant	
3				Species Across All Strata: 4 (E	3)
4					
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.00 (A	VB)
6				That Ale OBL, FACW, OF FAC.	VD)
				Prevalence Index worksheet:	
7		= Total Cove		Total % Cover of: Multiply by:	
50% of total cover:				OBL species 0 x 1 = 0	
	20 /0 01	iolai covei.		FACW species 22 x 2 = 44	
Sapling/Shrub Stratum (Plot size: 15 ft r  1. Diospyros virginiana	15	~	FAC	FAC species 78 x 3 = 234	
			FACU	FACU species 37 x 4 = 148	
2. Carya illinoinensis	5			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
3. Fraxinus pennsylvanica			FACW	407 x 0	(D)
4				Column Totals: <u>137</u> (A) <u>426</u> (	(B)
5				Prevalence Index = B/A = 3.10	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8					
9				✓ 2 - Dominance Test is >50%	
	25	= Total Cove		3 - Prevalence Index is ≤3.0¹	
50% of total cover: 12.50				4 - Morphological Adaptations <sup>1</sup> (Provide suppor	ting
Herb Stratum (Plot size: 5 ft r				data in Remarks or on a separate sheet)	
1 Iva annua	60	~	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2. Fraxinus pennsylvanica	15		FACW		
3. Cynodon dactylon	10		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology mus	st
4 Kummerowia striata	10		FACU	be present, unless disturbed or problematic.	
"	10		FACU	Definitions of Four Vegetation Strata:	
5. Andropogon virginicus			FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	) or
6. Setaria pumila	3			more in diameter at breast height (DBH), regardless	
7. Cyperus strigosus	2		FACW	height.	
8. Ulmus alata	2		FACU	Sapling/Shrub – Woody plants, excluding vines, lea	ee
9				than 3 in. DBH and greater than or equal to 3.28 ft (	
10				m) tall.	
11				Herb – All herbaceous (non-woody) plants, regardle	222
	112 :	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.	
50% of total cover: <u>56.00</u>	20% of	total cover:	22.40	Was basis Allows the size and the size of	
Woody Vine Stratum (Plot size: 30 ft r )				Woody vine – All woody vines greater than 3.28 ft i height.	in
1				no.g.m	
2					
3					
4				Hydrophytic	
5				Vegetation Present? Yes   ✓ No	
500/ of total covers		= Total Cove		11030III. 103 NO	
50% of total cover:		total cover:			
Remarks: (Include photo numbers here or on a separate sl	heet.)				
					1

Profile Desc	cription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	n the abse	nce of indicators.)
Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks
0 - 18	10YR 5/3	95	10YR 4/6	5	С	M	Silt Loa	m
			·					
	-	<del></del>			·			
-								
_				' <u>'</u>				
	-				-			
_								
				-				<del>-</del> -
				-				
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location	: PL=Pore Lining, M=Matrix.
Hydric Soil							In	dicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)				_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ice (S8) (N	ILRA 147,		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				, –	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			. ,	_	Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark S	Surface (F	<del>-</del> 6)		_	_ Very Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	e (A11)	Depleted Dar	k Surface	e (F7)		_	_ Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	/lucky Mineral (S1) <b>(L</b>	_RR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,		
	A 147, 148)		MLRA 13					2
-	Bleyed Matrix (S4)		Umbric Surfa					<sup>3</sup> Indicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	I Matrix (S6)		Red Parent N	Material (F	-21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
	Layer (if observed):							
Type:								_
Depth (in	ches):						Hydric S	Soil Present? Yes No 🗸
Remarks:							•	

Project/Site: Gleason	City/County: Faulkner Cour	nty Sampling Date: 2024-08-09		
Applicant/Owner: Conway Corp		State: Arkansas Sampling Point: S-14		
Investigator(s):Jimmy Rogers	Section, Township, Range: S	36 T6N R15W		
	Local relief (concave, convex, no			
	Lat: 35.1167 Long:92			
Soil Map Unit Name: 16 - Moreland silty cla	У	NWI classification:		
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes No	(If no, explain in Remarks.)		
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal	Circumstances" present? Yes No		
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed.	explain any answers in Remarks.)		
		ons, transects, important features, etc.		
Hydronhytic Vegetation Present? Yes	No 🗸			
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes  Yes	Is the Sampled Area	Yes No ✔		
Wetland Hydrology Present? Yes	No within a Wetland?			
Remarks:	<del>-</del>			
Maintained field.				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; of	check all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3)			
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)		
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C7) Other (Explain in Remarks)	<ul><li>Saturation Visible on Aerial Imagery (C9)</li><li>Stunted or Stressed Plants (D1)</li></ul>		
Iron Deposits (B5)	Other (Explain in Remarks)	Geomorphic Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)		
Water-Stained Leaves (B9)		Microtopographic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutral Test (D5)		
Field Observations:				
	Depth (inches):			
	Depth (inches):			
Saturation Present? Yes No _ (includes capillary fringe)	Depth (inches): Wetland F	Hydrology Present? Yes No		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections), if ava	ilable:		
Remarks:				

Samn	lina	Point:	S-14
Jailin	III IU	r Oll It.	•

00.6	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r )		Species?		Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 1 (A	<b>A</b> )
2				Total Number of Dominant	
3				Species Across All Strata: 2 (E	3)
4					
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A	VB)
6				That the GBE, Thow, GITHG.	<i>(D)</i>
7				Prevalence Index worksheet:	
		= Total Cov	er	Total % Cover of: Multiply by:	
50% of total cover:				OBL species 0 x 1 = 0	
Sapling/Shrub Stratum (Plot size: 15 ft r )				FACW species $2 \times 2 = 4$	
1				FAC species 45 x 3 = 135	
				FACU species 47	
2				UPL species 0 x 5 = 0	
3				0.4	(B)
4				Column rotals (//)	(5)
5				Prevalence Index = B/A = 3.47	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide suppor	tina
50% of total cover:	20% of	total cover:			ung
Herb Stratum (Plot size: 5 ft r )				data in Remarks or on a separate sheet)	
1. Paspalum dilatatum	40		FAC	Problematic Hydrophytic Vegetation¹ (Explain)	
2 Paspalum notatum	40	~	FACU		
3. Setaria sp.	5			<sup>1</sup> Indicators of hydric soil and wetland hydrology mus	st
4 Vernonia gigantea	5		FAC	be present, unless disturbed or problematic.	
5. Cyperus echinatus	3		FACU	Definitions of Four Vegetation Strata:	
6. Diodia virginiana	2		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	
7 Erigeron canadensis	2		FACU	more in diameter at breast height (DBH), regardless	s of
8. Solanum carolinense	2		FACU	height.	
· · · · · · · · · · · · · · · · · · ·			17100	Sapling/Shrub – Woody plants, excluding vines, lea	
				than 3 in. DBH and greater than or equal to 3.28 ft (	(1
10				m) tall.	
11				Herb – All herbaceous (non-woody) plants, regardle	ess
		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: <u>49.50</u>	20% of	total cover:	19.80	Woody vine – All woody vines greater than 3.28 ft i	in
Woody Vine Stratum (Plot size: 30 ft r )				height.	
1					
2					
3					
4				Lhudranhutia	
5				Hydrophytic Vegetation	
		= Total Cov	er	Present? Yes No	
50% of total cover:					
Remarks: (Include photo numbers here or on a separate sl					
Transact (material rational ratio of a ratio of a superaction	,				

Profile Desc	ription: (Describe	to the depth	needed to document the indi	cator or confirm	the absence	e of indicators.)
Depth	Matrix		Redox Features			
(inches)	Color (moist)	%		ype <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0 - 4	10YR 3/3	100			Silt Loam	
4 - 18	10YR 4/3	100			Silt Loam	
				<del></del>		
-						
-						
			<u> </u>			
1 <sub>Type:</sub> C=C	oncontration D=Dan	lotion DM-D	aduand Matrix MS-Masked Sa	nd Crains	<sup>2</sup> Location: E	DI = Doro Lining M=Matrix
Hydric Soil		netion, Rivi=R	educed Matrix, MS=Masked Sa	na Grains.		PL=Pore Lining, M=Matrix.  ators for Problematic Hydric Soils <sup>3</sup> :
-			Dark Surface (S7)			2 cm Muck (A10) (MLRA 147)
Histosol	oipedon (A2)		<ul><li>Dark Surface (S7)</li><li>Polyvalue Below Surface (S7)</li></ul>	S8) (MI DA 147		Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Surface (S9) (M		(	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	LIGA 147, 140)	F	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		<u> </u>	(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface (F6)		\	/ery Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7	·)		Other (Explain in Remarks)
Thick Da	ark Surface (A12)	, ,	Redox Depressions (F8)	•		,
Sandy N	Mucky Mineral (S1) (	LRR N,	Iron-Manganese Masses (I	F12) <b>(LRR N,</b>		
MLRA	A 147, 148)		MLRA 136)			
Sandy G	Bleyed Matrix (S4)		Umbric Surface (F13) (ML	RA 136, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
Sandy F	Redox (S5)		Piedmont Floodplain Soils	(F19) <b>(MLRA 14</b>	8) we	etland hydrology must be present,
Stripped	Matrix (S6)		Red Parent Material (F21)	(MLRA 127, 147	') ur	nless disturbed or problematic.
Restrictive	Layer (if observed)					
Type:			<u> </u>			
Depth (in	ches):				Hydric Soi	I Present? Yes No <u>✓</u>
Remarks:						

Project/Site: Gleason	Sity/County: Faulkner County Sampling Date: 2024-08-21
	State: Arkansas Sampling Point: S-15
Investigator(s) Jimmy Rogers	Section, Township, Range: S36 T6N R15W
Landform (hillslope, terrace, etc.): Floodplain Local	al relief (concave, convex, none): None Slope (%): 1
	Long: -92.55120 Datum: WGS 84
• ,	onally flooded, Arkansas River NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly d	disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	
	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes V No	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes  No  Yes  No  V	Is the Sampled Area
Wetland Hydrology Present? Yes No 🗸	within a Wetland? Yes No
Remarks:	
Historically disturbed area.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Pla	
High Water Table (A2) Hydrogen Sulfide	
	pheres on Living Roots (C3) Moss Trim Lines (B16)
<u> </u>	duced Iron (C4) Dry-Season Water Table (C2) uction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surfa	
Algal Mat or Crust (B4) Other (Explain in	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	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:	
Remarks.	

Sampling Point: S-15

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r )		Species?			
1 Carya illinoinensis	15		FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A	Δ)
2 Celtis laevigata	10		FACW	That Are OBE, I AGW, OF I AG.	٦)
	5	<u> </u>	FAC	Total Number of Dominant	
3. Gleditsia triacanthos	<u> </u>		FAC	Species Across All Strata: 7 (E	3)
4				Percent of Dominant Species	
5					4/B)
6					,
7				Prevalence Index worksheet:	
·	30	= Total Cov		Total % Cover of: Multiply by:	
50% of total cover: 15.00				OBL species <u>5</u> x 1 = <u>5</u>	
	20% 01	total cover:		FACW species 73	
Sapling/Shrub Stratum (Plot size: 15 ft r	4-			50 450	
1. Carya illinoinensis	15		FACU		
2. Gleditsia triacanthos	10		FAC	FACU species 39 x 4 = 156	
3. Quercus macrocarpa	10	<b>✓</b>	FAC	UPL species <u>0</u> x 5 = <u>0</u>	
4. Diospyros virginiana	5		FAC	100 100	(B)
·· <del>·</del>					` '
5				Prevalence Index = B/A = 2.73	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8					
9			·	✓ 2 - Dominance Test is >50%  1. The state of the state	
<u> </u>	40	= Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover: 20.00				4 - Morphological Adaptations <sup>1</sup> (Provide suppor	rting
·	20 /6 01	lotal cover.		data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: 5 ft r )	60		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
1. Leersia virginica	60			<u> </u>	
2. Iva annua	10		FAC	1 adicates of budging of land watered budgets as a	_4
3. Carex frankii	5		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	St
Coleataenia anceps	5	<u> </u>	FAC		
5. Vernonia gigantea	5		FAC	Definitions of Four Vegetation Strata:	
6. Fraxinus pennsylvanica	3		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	n) or
				more in diameter at breast height (DBH), regardless	
7. Ulmus alata	3		FACU	height.	
8. Ruellia strepens	2		FAC	Sapling/Shrub – Woody plants, excluding vines, le	
9. Vicia americana	1		FACU	than 3 in. DBH and greater than or equal to 3.28 ft	
10.				m) tall.	( .
11					
11	94			Herb – All herbaceous (non-woody) plants, regardle	ess
500/ official community 47.00		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: <u>47.00</u>	20% of	total cover:	10.00	Woody vine – All woody vines greater than 3.28 ft	in
Woody Vine Stratum (Plot size: 10 ft r )	_			height.	
1. Rubus trivialis	5		FACU_		
2					
3					
4					
				Hydrophytic	
5	5			Vegetation Present? Yes ✓ No	
2.50		= Total Cov		resent: res No	
50% of total cover: 2.50	20% of	total cover:	1.00		
Remarks: (Include photo numbers here or on a separate s	heet.)				

Profile Desc	cription: (Describe	to the depth	needed to docume	ent the indicato	r or confirm	the abse	nce of indicators.)
Depth	Matrix		Redox I	Features			
(inches)	Color (moist)	<u>%</u>	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks
0 - 18	10YR 4/2	100				Silt Loa	m
			-				
	_			<del></del>			
		· —— -					
-							
		· —— -	<del></del>				
-							
	-	· —— -					
	_						
		letion, RM=F	Reduced Matrix, MS=	Masked Sand G	rains.		: PL=Pore Lining, M=Matrix.
Hydric Soil							dicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S				_ 2 cm Muck (A10) (MLRA 147)
	pipedon (A2)			w Surface (S8) (		148)	_ Coast Prairie Redox (A16)
	istic (A3)			ace (S9) (MLRA	147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed	, ,		_	_ Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix				(MLRA 136, 147)
	uck (A10) (LRR N)	(8.4.4)	Redox Dark Su			_	_ Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark			_	_ Other (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depress		/I DD N		
	Mucky Mineral (S1) <b>(I</b> <b>A 147, 148)</b>	-KK N,	Iron-Manganes MLRA 136)		(LKK N,		
	Gleyed Matrix (S4)		•	e (F13) <b>(MLRA 1</b>	26 122\		<sup>3</sup> Indicators of hydrophytic vegetation and
-	Redox (S5)			dplain Soils (F19			wetland hydrology must be present,
-	Matrix (S6)			terial (F21) <b>(ML</b>			unless disturbed or problematic.
	Layer (if observed):		Red Falelit Ma	teriai (FZT) (IVIL	KA 121, 141	<i>)</i>	unless disturbed of problematic.
• • •			<del>_</del>				
	ches):					Hydric	Soil Present? Yes No
Remarks:							

Project/Site: Gleason		City/C	County: Faulkner Cour	nty	Sampling Date: 2024-09-04
Applicant/Owner: Conway C					s Sampling Point: S-16
Investigator(s):Jimmy Roger		Section Section			_ ,
Landform (hillslope, terrace, et					Slone (%): 1
Subregion (LRR or MLRA): N					Datum: WGS 84
Soil Map Unit Name: 24 - Per					
•					·
Are climatic / hydrologic condit		· · · · · · · · · · · · · · · · · · ·			
Are Vegetation, Soil	, or Hydrolog	y significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil	, or Hydrolog	y naturally problemate	atic? (If needed, e	xplain any answe	rs in Remarks.)
SUMMARY OF FINDIN	GS – Attach s	ite map showing san	npling point locatio	ns, transects	, important features, etc.
Hydrophytic Vagotation Drop	ent? Yes	✓ No			
Hydrophytic Vegetation Pres Hydric Soil Present?	Yes	No V	Is the Sampled Area	Vaa	No. 4
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	_ No <u>/</u>
Remarks:					
Historically disturb	oed area.				
HYDROLOGY					
Wetland Hydrology Indicat	ors:				tors (minimum of two required)
Primary Indicators (minimum	of one is required;			Surface Soil	, ,
Surface Water (A1)		True Aquatic Plants (			getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Od		✓ Drainage Pat	
Saturation (A3)			es on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)		Presence of Reduced Recent Iron Reduction		Crayfish Burr	Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		Thin Muck Surface ((		-	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Rer			tressed Plants (D1)
Iron Deposits (B5)		Other (Explain in reci	nanoj	Geomorphic	
Inundation Visible on Ae	rial Imagery (B7)			Shallow Aqui	
Water-Stained Leaves (F					phic Relief (D4)
Aquatic Fauna (B13)	,			FAC-Neutral	
Field Observations:					
Surface Water Present?	Yes No	Depth (inches):			
Water Table Present?	Yes No	Depth (inches):			
Saturation Present?	Yes No	Depth (inches):	Wetland H	lydrology Presen	t? Yes No
(includes capillary fringe)  Describe Recorded Data (str	eam gauge monito	oring well aerial photos, pre	evious inspections) if ava	ilable:	
Booding Noordon Bata (of	oam gaago, mome	oring won, doridi priotoc, pre	, in ava	ilabio.	
Remarks:					

Samp	lina	Point:	S-16

That Are OBL, FACW, or FAC: 5	· · · · · · · · · · · · · · · · · · ·	Absolute	Dominant	Indicator	Dominance Test worksheet:
Total Number of Dominant   Species Across All Stratar   6	Tree Stratum (Plot size: 20 ft r )	% Cover	Species?	Status	Number of Dominant Species
Species Across All Sirata:   6   (B)	1				That Are OBL, FACW, or FAC: 5 (A)
Species Across All Strates   6   (B)	2				Total Number of Dominant
Face	3				
That Are OBL. FACW, or FAC: 83.33 (AB)	4				Percent of Dominant Species
Prevalence Index worksheet:   Total Cover   Sow of total cover:   20% of total cover:   Total Sc Cover of   Multiply by:   OBL species   5	5				
Total Cover   Solid total cover:   20% of	6				Decretance in decreased as to
Sapling/Shrub Stratum (Plot size: 15 ft r   20% of total cover:	7				
Sapling/Shrub Stratum   (Plot size: 15 ftr   1, Gleditsia triacanthos   25					· · · · · · · · · · · · · · · · · · ·
Gleditist triacanthos   25	·	20% of	total cover:		
2 Diospyros virginiana 3 Carya cordiformis 5 FACU 3 Carya cordiformis 5 FACU 4		25		F40	
Carya cordiformis   5					
Column Totals: 122 (A) 306 (B)  Prevalence Index = B/A = 2.50  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hyd					
Prevalence Index = B/A = \( \frac{2.50}{} \)     4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)     Prevalence Index = B/A = \( \frac{2.50}{} \)     4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate she	··			FACU	
Prevalence Index = B/A = 2.50   Prevalence Index = B/A = 2.50					Column Totals: 122 (A) 300 (B)
Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  50% of total cover: 17.50  20% of total cover: 7.00  Herb Stratum (Plot size: 5 ft r	5				Prevalence Index = B/A = 2.50
8.	6				Hydrophytic Vegetation Indicators:
35	7				1 - Rapid Test for Hydrophytic Vegetation
35	8				
So% of total cover:   17.50   20% of total cover:   7.00   data in Remarks or on a separate sheet)	9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
Solve of total cover: 17.50	47.50				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Carex sp. 20	_	20% of	total cover:	7.00	data in Remarks or on a separate sheet)
Persicaria hydropiperoides  20		20	~	OBI	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Trace   Trac					
4. Cardiospermum halicacabum 5 FACU 5. Andropogon virginicus 5 FACU 6. Ambrosia trifida 5 FACU 7. Desmodium paniculatum 3 FACU 8. Xanthium strumarium 2 FAC 9.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Definitions of Four Vegetation Strata:					be present, unless disturbed or problematic.
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 10 ft r ) 1. Rubus trivialis					Definitions of Four Vegetation Strata:
To be smodium paniculatum  To be spaniculatum					Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
A Xanthium strumarium  2 FAC  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 10 ft r					
Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.    To   Total Cover   20% of total cover: 14.00					neight.
10	•				
Total Cover					· · · · · · · · · · · · · · · · · · ·
Total Cover					ini) taii.
50% of total cover: 35.00   20% of total cover: 14.00   Woody Vine Stratum (Plot size: 10 ft r )   Table of the size: 10 ft r   10 ft	11	70	<del></del>		Herb – All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 10 ft r )  1. Rubus trivialis	50% of total cover: 35.00				of size, and woody plants less than 3.26 ft tall.
Rubus trivialis		20 /0 01	total cover.		, ,
Ampelopsis arborea  5		5	~	FACU	neight.
Toxicodendron radicans  5					
4. Smilax bona-nox 2 FACU 5. Hydrophytic Vegetation Present? Yes No					
5. Hydrophytic Vegetation Present? Yes No No			-		
17 = Total Cover 50% of total cover: 8.50 20% of total cover: 3.40 Present? Yes  ✓ No	"		-		
50% of total cover: 8.50 20% of total cover: 3.40	<u>.                                    </u>	17	= Total Cov		
	50% of total cover· 8.50				
					1

Carex not identified to species, FAC assumed for indicator status.

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirm	the abse	nce of indicate	ors.)	
Depth	Matrix			x Feature						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
1 - 2	10YR 3/2	100					Silt Loa	<u> </u>		
2 - 16	10YR 4/2	100					Silt Loa	ım		
		·								_
		<del></del>						<del></del>		
							-			
-										
		- <del></del>								
		<del></del>						<del></del>		
<sup>1</sup> Type: C=Ce	oncentration, D=Dep	letion RM=	Reduced Matrix MS	S=Masked	Sand Gra	nins	<sup>2</sup> Location	n: PL=Pore Lini	ing M=Matrix	<del>.</del>
Hydric Soil		iction, rawi-	-reduced Matrix, Me	J-Washet	TOUTH OTE			dicators for P		dric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)				_ 2 cm Muck (	-	
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	LRA 147.		_ Coast Prairie		,
Black Hi			Thin Dark Su					(MLRA 14		
	n Sulfide (A4)		Loamy Gleye			, ,			oodplain Soils (	F19)
	Layers (A5)		Depleted Ma					(MLRA 13	36, 147)	ŕ
2 cm Mu	ick (A10) (LRR N)		Redox Dark	Surface (F	6)		_	_ Very Shallow	v Dark Surface	(TF12)
	d Below Dark Surfac	e (A11)	Depleted Dar				_	_ Other (Expla	in in Remarks)	
	ark Surface (A12)		Redox Depre							
	fucky Mineral (S1) (I	LRR N,	Iron-Mangan		es (F12) <b>(</b> I	_RR N,				
	147, 148)		MLRA 13		MI DA 42	6 400)		3Indicators of b	udranhutia uaa	atation and
	Bleyed Matrix (S4) Redox (S5)		Umbric Surfa Piedmont Flo					<sup>3</sup> Indicators of h	yaropnytic veg ology must be p	
-	Matrix (S6)		Red Parent N					-	ed or problema	
	_ayer (if observed):		Red raienti	viateriai (i	Z I ) (IVILIX	7 127, 147	<del>'</del>	uniess disturb	red of problema	ilio.
Type:		•								
							I leadain	Call Duanauto	Vaa	No 🗸
	ches):						Hydric	Soil Present?	Yes	NO
Remarks:										
1										
ı										

Project/Site: Gleason City	County: Faulkner County Sampling Date: 2024-09-04
	State: Arkansas Sampling Point: S-17
Investigator(s). Jimmy Rogers Sec	tion, Township, Range: S36 T6N R15W
Landform (hillslope, terrace, etc.): Depression Local re	
	Long: -92.55192 Datum: WGS 84
Soil Map Unit Name: 24 - Perry clay, 0 to 1 percent slopes, occasiona	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly dist	urbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally probler	
	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No	
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes V No	Is the Sampled Area
Wetland Hydrology Present? Yes V No	within a Wetland? Yes No
Remarks:	
HYDROLOGY  Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1) True Aquatic Plants	
Surface Water (A1) True Aquatic Frams High Water Table (A2) Hydrogen Sulfide O	
l	eres on Living Roots (C3) Moss Trim Lines (B16)
✓ Water Marks (B1) Presence of Reduce	
<u> </u>	ion in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface	
Algal Mat or Crust (B4) Other (Explain in Re	· · · · · · · · · · · · · · · · · · ·
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)  ✓ Water-Stained Leaves (B9)	Shallow Aquitard (D3) Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	<u> </u>
Surface Water Present? Yes No Depth (inches): 1	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes V No Depth (inches): 0	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, p.	ravious inspections) if available:
Describe Necorded Data (stream gauge, monitoring well, aerial priotos, pr	evious inspections), ii available.
Remarks:	

Samn	lina	Point:	S-17
Janio	III IU	I OIIII.	

20.4	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r		Species?		Number of Dominant Species _	
1. Gleditsia triacanthos	25		FAC	That Are OBL, FACW, or FAC: 5	(A)
2. Fraxinus pennsylvanica	10		FACW	Total Number of Dominant	
3. Ulmus americana	5		FACW		(B)
4					(_,
_		-		Percent of Dominant Species	
				That Are OBL, FACW, or FAC: 100.00	(A/B)
6				Prevalence Index worksheet:	
7					
		= Total Cove			
50% of total cover: 20.00	20% of	total cover:	8.00	OBL species $0 \times 1 = 0$	
Sapling/Shrub Stratum (Plot size: 15 ft r )				FACW species <u>35</u> x 2 = <u>70</u>	
1. Fraxinus pennsylvanica	10	<b>✓</b>	FACW	FAC species 25 x 3 = 75	
2. Celtis laevigata	5		FACW	FACU species 0 x 4 = 0	
	5		FACW	UPL species 0 x 5 = 0	
3. Ulmus americana	<u> </u>		FACW	00 445	<b>(5</b> )
4				Column Totals: 60 (A) 145	(B)
5				Prevalence Index = B/A = 2.41	
6					
				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
	20 :	= Total Cove	er	4 - Morphological Adaptations <sup>1</sup> (Provide suppo	ortina
50% of total cover: 10.00	20% of	total cover:	4.00		Jilling
Herb Stratum (Plot size: 5 ft r				data in Remarks or on a separate sheet)	
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
1					
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ıst
3				be present, unless disturbed or problematic.	101
4				Definitions of Four Vegetation Strata:	
5				Definitions of Four Vegetation Ottala.	
				Tree – Woody plants, excluding vines, 3 in. (7.6 cr	
6				more in diameter at breast height (DBH), regardles	ss of
7				height.	
8				Sapling/Shrub – Woody plants, excluding vines, I	<b>6</b> 88
9				than 3 in. DBH and greater than or equal to 3.28 ft	t (1
10				m) tall.	`
11.					
		T-4-1 O		Herb – All herbaceous (non-woody) plants, regard	less
		= Total Cove		of size, and woody plants less than 3.28 ft tall.	
50% of total cover:	20% 01	total cover:		Woody vine – All woody vines greater than 3.28 f	t in
Woody Vine Stratum (Plot size: 30 ft r )				height.	
1					
2					
3					
4				Hydrophytic	
5				Vegetation Present? Yes ✓ No	
		= Total Cove		Present? Yes V No No	
50% of total cover:	20% of	total cover:			
Remarks: (Include photo numbers here or on a separate si	neet.)				

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirn	the absenc	e of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 18	7.5YR 4/1	75	10YR 3/6	25	С	М	Clay	
_								
								-
-								
	-							
		<del></del>						
					_			
-								
						<del></del>		
	-							
		letion, RM	=Reduced Matrix, M	S=Maske	d Sand Gi	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indi	cators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface					2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be	low Surfa	ace (S8) <b>(I</b>	VILRA 147,	148)	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su	ırface (S9	) (MLRA	147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)			Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma	. ,				(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da		. ,			Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) (I	_RR N,	Iron-Mangan		ses (F12)	(LRR N,		
	\ 147, 148)		MLRA 13		(MIL D.A. 4)	20. 400)	3	dia da sa af la colora de dia con sa da dia sa ana
	Sleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent I	viateriai (i	-21) (WLF	KA 127, 14	/) u	nless disturbed or problematic.
	_ayer (if observed):							
• • •								
Depth (in	ches):						Hydric So	il Present? Yes No
Remarks:								

Project/Site: Gleason	City/County: Faulkner Cou	Inty Sampling Date: 2024-09-04			
Applicant/Owner: Conway Corp		State: Arkansas Sampling Point: S-18			
Investigator(s):Jimmy Rogers	Section, Township, Range:	36 T6N R15W			
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, no	one): None Slope (%): 1			
Subregion (LRR or MLRA): N 118A L		2.55168 Datum: WGS 84			
Soil Map Unit Name: 24 - Perry clay, 0 to 1 perce					
Are climatic / hydrologic conditions on the site typical	al for this time of year? Yes No	(If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Norma	al Circumstances" present? Yes No			
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed,	explain any answers in Remarks.)			
		ons, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes	No 🗸				
Hydric Soil Present? Yes	Is the Sampled Area	Yes No ✔			
Wetland Hydrology Present? Yes	— No ✓ within a Wetland?	——————————————————————————————————————			
Remarks:					
Periodically maintained field.					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; ch		Surface Soil Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)			
	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)			
	Oxidized Rhizospheres on Living Roots (C3)				
Water Marks (B1) Sediment Deposits (B2)	<ul><li>Presence of Reduced Iron (C4)</li><li>Recent Iron Reduction in Tilled Soils (C6)</li></ul>	Dry-Season Water Table (C2)			
Drift Deposits (B3)	Thin Muck Surface (C7)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)			
Iron Deposits (B5)	Cutor (Explain in Nomano)	Sturtled of Stressed Plants (DT) Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)			
Water-Stained Leaves (B9)		Microtopographic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutral Test (D5)			
Field Observations:					
	Depth (inches):				
	Depth (inches):				
(includes capillary fringe)		Hydrology Present? Yes No			
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous inspections), if av	ailable:			
Remarks:					

Samp	lina	Point:	S-18
Janio	'III IU	ı Ollit.	

00.4	Absolute			Dominance Test worksheet:	
Tree Stratum (Plot size: 20 ft r )		Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 1 (A	)
2				Total Number of Dominant	
3				Species Across All Strata: 2 (B	)
4				Descent of Descinent Consider	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A.	/B)
6					,
7				Prevalence Index worksheet:	
		= Total Cov	er	Total % Cover of: Multiply by:	
50% of total cover:				OBL species $\underline{2}$ $\times 1 = \underline{2}$	
Sapling/Shrub Stratum (Plot size: 15 ft r				FACW species $0   x 2 = 0$	
1 Gleditsia triacanthos	10	~	FAC	FAC species 21 x 3 = 63	
''				FACU species 81 x 4 = 324	
2				UPL species 0 x 5 = 0	
3				Column Totals: 104 (A) 389 (I	B)
4				(1)	_,
5				Prevalence Index = B/A = 3.74	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
		= Total Cov		4 - Morphological Adaptations¹ (Provide support	ina
50% of total cover: 5.00	20% of	total cover:	2.00		iiig
Herb Stratum (Plot size: 5 ft r )				data in Remarks or on a separate sheet)	
1. Cynodon dactylon	70		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2 Carex sp.	10				
3. Croton capitatus	5			<sup>1</sup> Indicators of hydric soil and wetland hydrology must	t
4 Paspalum dilatatum	5		FAC	be present, unless disturbed or problematic.	
5. Trifolium repens	5		FACU	Definitions of Four Vegetation Strata:	
6. Gleditsia triacanthos	3		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	or
7. Solanum carolinense	3		FACU	more in diameter at breast height (DBH), regardless	
8 Verbena urticifolia	3		FAC	height.	
				Sapling/Shrub – Woody plants, excluding vines, les	ss
9. Cardiospermum halicacabum	2		FACU	than 3 in. DBH and greater than or equal to 3.28 ft (	1
10.Phyla lanceolata	2		OBL	m) tall.	
11. Desmodium paniculatum	1		FACU	Herb – All herbaceous (non-woody) plants, regardles	ss
		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: <u>54.50</u>	20% of	total cover:	21.80	Woody vine – All woody vines greater than 3.28 ft in	1
Woody Vine Stratum (Plot size: 20 ft r )				height.	
1					
2					
3					
4				l	
5				Hydrophytic Vegetation	
<u> </u>		= Total Cov		Present? Yes No	
50% of total cover:					
Remarks: (Include photo numbers here or on a separate si		total cover.			
Remarks. (include prioto numbers here or on a separate si	ieet.)				

Sampling Point: S-18

Profile Desc	ription: (Describe	to the dept	h needed to docun	nent the i	ndicator	or confirm	the absence	of indicators	i.)
Depth	Matrix		Redox	K Features	3				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 3	10YR 3/2	100					Silt Loam		
3 - 11	10YR 4/3	100					Silt Loam		
								•	
<del></del>									
-									
	•							•	
¹Type: C=Co	ncentration D=Der	oletion PM=	Reduced Matrix, MS	=Macked	Sand Gra	nine	<sup>2</sup> Location: E	L=Pore Lining	M=Matrix
Hydric Soil I		neuon, rawi–	Neduced Matrix, Mc	-iviaskeu	Saliu Gia	11115.			plematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(\$7)					0) <b>(MLRA 147)</b>
	oipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	II RΔ 147		Coast Prairie R	
Black His			Tolyvalde Be				,	(MLRA 147,	
	n Sulfide (A4)		Loamy Gleye			., <b>.,</b>	F		dplain Soils (F19)
	Layers (A5)		Depleted Mat		,		_	(MLRA 136,	
2 cm Mu	ck (A10) (LRR N)		Redox Dark S		6)		\		ark Surface (TF12)
Depleted	Below Dark Surfac	e (A11)	Depleted Dar	k Surface	(F7)		(	Other (Explain	in Remarks)
	rk Surface (A12)		Redox Depre						
	lucky Mineral (S1) (	LRR N,	Iron-Mangan		es (F12) <b>(</b> I	_RR N,			
	147, 148)		MLRA 130				3.		
-	leyed Matrix (S4)		Umbric Surfa					-	rophytic vegetation and
-	edox (S5)		Piedmont Flo						gy must be present,
	Matrix (S6)  ayer (if observed)		Red Parent N	iateriai (F.	21) (WLR	A 127, 147	) ur	iless disturbed	or problematic.
	rd packed soil	•							
• • • • • • • • • • • • • • • • • • • •									
Depth (inc	ches): 11						Hydric Soi	I Present?	Yes No
Remarks:									

Project/Site: Gleason			City/C	ounty: Faulkner	County		Sampling Date:	2024-08-21
Applicant/Owner: Conway C				-			Sampling Poir	
Investigator(s): Jimmy Roger			Section	on, Township, Rang				
Landform (hillslope, terrace, et							Slo	ne (%)· 1
Subregion (LRR or MLRA): N				Long:				
Soil Map Unit Name: 24 - Per				_				
							•	
Are climatic / hydrologic condit	-		-					
Are Vegetation, Soil	, or Hydrolog	y signif	icantly distur	bed? Are "N	Normal Circu	umstances" pre	esent? Yes	No
Are Vegetation, Soil	, or Hydrolog	y natur	ally problema	atic? (If nee	eded, explai	n any answers	in Remarks.)	
SUMMARY OF FINDIN	GS – Attach s	ite map sho	wing sam	pling point lo	cations,	transects, i	important fe	eatures, etc.
Hydrophytic Vagotation Brook	ent? Yes	✓ No						
Hydrophytic Vegetation Present?	Yes	No -	<u></u>	Is the Sampled A		Voo	No. 4	
Wetland Hydrology Present?	Yes	No No	<u></u>	within a Wetland	d?	Yes	No 🗸	
Remarks:								
Maintained field.								
HYDROLOGY								
Wetland Hydrology Indicate	ors:				Seco	ondary Indicato	rs (minimum of	two required)
Primary Indicators (minimum	of one is required					Surface Soil Ci		
Surface Water (A1)			uatic Plants (				tated Concave	Surface (B8)
High Water Table (A2)		Hydroge				Drainage Patte		
Saturation (A3)				es on Living Roots		Moss Trim Line		
Water Marks (B1)		Presence		n in Tilled Soils (C6		Dry-Season w Crayfish Burro	ater Table (C2)	
Sediment Deposits (B2) Drift Deposits (B3)			ck Surface (C			-	ws (C6) ble on Aerial Im	radery (C9)
Algal Mat or Crust (B4)		Other (E					essed Plants (D	
Iron Deposits (B5)		Outer (E	Apidiii iii i ten	narro)		Geomorphic Po		• /
Inundation Visible on Ae	rial Imagery (B7)					Shallow Aquita		
Water-Stained Leaves (E						Microtopograpl		
Aquatic Fauna (B13)	,					FAC-Neutral To	, ,	
Field Observations:								
Surface Water Present?	Yes No	Depth (	inches):					
Water Table Present?	Yes No							
Saturation Present?	Yes No	Depth (i	inches):	Wetl	land Hydro	logy Present?	Yes	No
(includes capillary fringe)  Describe Recorded Data (stre	eam gauge monit	oring well aeria	I nhotos nro	vious inspections)	if available			
Describe Necorded Data (str	cam gauge, mome	oring well, acria	ii priotos, pre	vious irispections),	, ii available	•		
Remarks:								

Samp	lina	Point:	S-19

20.4	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r )		Species?	<u>Status</u>	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 3	A)
2				Total Number of Dominant	
3					В)
4					,
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.00 (	A/B)
6.				That Ale OBE, I ACW, OF I AC.	ND)
				Prevalence Index worksheet:	
7		= Total Cov		Total % Cover of: Multiply by:	
50% of total cover:				OBL species $0   x 1 = 0$	
	20 /0 01	iolai covei.		FACW species $0 \times 2 = 0$	
Sapling/Shrub Stratum (Plot size: 15 ft r )  1. Gleditsia triacanthos	10	V	FAC	FAC species 61 x 3 = 183	
**	3			50 000	
2. Diospyros virginiana			FAC	FACU species $\begin{array}{cccccccccccccccccccccccccccccccccccc$	
3				01 L species x 0 =	
4				Column Totals: 111 (A) 383	(B)
5				Prevalence Index = B/A = 3.45	
6					
7				Hydrophytic Vegetation Indicators:	
8				1 - Rapid Test for Hydrophytic Vegetation	
				✓ 2 - Dominance Test is >50%	
9	13	= Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover: 6.50		total cover:		4 - Morphological Adaptations <sup>1</sup> (Provide suppo	rting
Herb Stratum (Plot size: 5 ft r )	20 /0 01	iolai covei.		data in Remarks or on a separate sheet)	
	40	~	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
1. Iva annua	25		FACU		
2. Cynodon dactylon				<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	st
3. Trifolium repens	20		FACU	be present, unless disturbed or problematic.	•
4. unidentified sedge	10			Definitions of Four Vegetation Strata:	
5. Coleataenia anceps	5		FAC		
6. Solanum carolinense	5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm more in diameter at breast height (DBH), regardles	
7. Xanthium strumarium	3		FAC	height.	SOI
8					
				Sapling/Shrub – Woody plants, excluding vines, le	ess
· · ·				than 3 in. DBH and greater than or equal to 3.28 ft m) tall.	(1
10				,	
11	100			Herb – All herbaceous (non-woody) plants, regardl	ess
500/ CLLL 5400		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: <u>54.00</u>	20% of	total cover:	21.00	Woody vine – All woody vines greater than 3.28 ft	in
Woody Vine Stratum (Plot size: 30 ft r )				height.	
1					
2					
3					
4				The draw heating	
5				Hydrophytic Vegetation	
		= Total Cov	<u></u>	Present? Yes No	
50% of total cover:					
Remarks: (Include photo numbers here or on a separate si					
Tremains. (include prote numbers here of on a separate si	noct.)				

Profile Desc	cription: (Describe	to the dept	h needed to document the indicator or confi	rm the abse	ence of indicators.)
Depth	Matrix		Redox Features	_	
(inches)	Color (moist)	<u>%</u>	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>		
0 - 5	10YR 3/3	100		Silt Loa	am
5 - 18	10YR 4/3	100		Silt Loa	am
	-				
				_	
-					
<sup>1</sup> Type: C=C	oncentration D=Der	oletion RM=	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> l ocation	n: PL=Pore Lining, M=Matrix.
Hydric Soil		JICTION, IXIVI	Neduced Matrix, MO-Masked Sand Grains.		ndicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA 14		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Surface (S9) (MLRA 147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark Surface (F6)	_	Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	ce (A11)	Depleted Dark Surface (F7)	_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depressions (F8)		
-	Mucky Mineral (S1) (	LRR N,	Iron-Manganese Masses (F12) (LRR N,		
	A 147, 148)		MLRA 136)		31
-	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)	4.40\	<sup>3</sup> Indicators of hydrophytic vegetation and
-	Redox (S5) I Matrix (S6)		<ul><li>Piedmont Floodplain Soils (F19) (MLRA</li><li>Red Parent Material (F21) (MLRA 127, 1</li></ul>		wetland hydrology must be present, unless disturbed or problematic.
	Layer (if observed)	•	Neu Falent Material (121) (MERA 121, 1	41)	unless disturbed of problematic.
	Layer (ii observed)				
• • • • • • • • • • • • • • • • • • • •			<u> </u>	I Is salmin	Soil Present? Yes No
	ches):		<del></del>	пуапс	Soil Present? Yes No
Remarks:					
i					

Project/Site: Gleason	City/County: Faul	Ikner County	Sampling Date: 2024-08-21		
Applicant/Owner: Conway Corp		State: Arkans			
Investigator(s):Jimmy Rogers	Section, Township				
Landform (hillslope, terrace, etc.): Drainageway	Local relief (concave.	convex. none): Linear	Slope (%): 1		
Subregion (LRR or MLRA): N 118A Lat			Datum: WGS 84		
Soil Map Unit Name: 24 - Perry clay, 0 to 1 percent		-			
Are climatic / hydrologic conditions on the site typical f	or this time of year? Yes 1	No (If no, explain in I	Remarks.)		
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes No		
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach site n					
Hydrophytic Vegetation Present? Yes	No				
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes  Yes	No Is the Sam	-	. Na		
Wetland Hydrology Present?	No within a W	etland? Yes _•	No		
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indic	eators (minimum of two required)		
Primary Indicators (minimum of one is required; chec	k all that apply)	✓ Surface Soi			
	True Aquatic Plants (B14)		egetated Concave Surface (B8)		
	Hydrogen Sulfide Odor (C1)	<u>✓</u> Drainage Pa			
	Oxidized Rhizospheres on Living	Roots (C3) Moss Trim I	Lines (B16)		
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled So				
	Thin Muck Surface (C7) Other (Explain in Remarks)		/isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Stressed Plants (D1)			
☐ Iron Deposits (B5) ✓ Inundation Visible on Aerial Imagery (B7)	Geomorphic Position (D2)				
Water-Stained Leaves (B9)		Shallow Aquitard (D3) Microtopographic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutra			
Field Observations:		<u> </u>			
	Depth (inches):				
	Depth (inches):				
	Depth (inches):	Wetland Hydrology Prese	ent? Yes V No		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring	weii, aeriai priotos, previous inspec	tions), if available:			
Remarks:					

Sami	olina	Point:	S-20
Carri	JIII 14	1 01111.	

10 ft	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 10 ft r )		Species?		Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 6	(A)
2				Total Number of Dominant	
3					(B)
4					` ,
5				Percent of Dominant Species That Are OBL_FACW_or FAC: 85.71	(A (D)
				That Are OBL, FACW, or FAC: 85./1	(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
500/ (1.1.1	-	= Total Cove		OBL species <u>88</u> x 1 = <u>88</u>	
50% of total cover:	20% of	total cover:		FACW species $0 \times 2 = 0$	
Sapling/Shrub Stratum (Plot size: 10 ft r	_				
1. Salix nigra			OBL	1 AC species X 3 =	
2. Carya illinoinensis	3		FACU	FACU species $\frac{3}{2}$ $\times 4 = \frac{12}{2}$	
3. Cephalanthus occidentalis	3		OBL	UPL species $0 \times 5 = 0$	
4. Diospyros virginiana	3	<b>✓</b>	FAC	Column Totals: <u>97</u> (A) <u>118</u>	(B)
5 Gleditsia triacanthos	3		FAC	1.01	
6				Prevalence Index = B/A = 1.21	
				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9				✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supp	ortina
50% of total cover: 8.50	20% of	total cover:	3.40		orting
Herb Stratum (Plot size: 5 ft r )				data in Remarks or on a separate sheet)	
1. Persicaria hydropiperoides	60	~	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
2 Ludwigia peploides	20	~	OBL		
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ust
i				be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	
5				Tree – Woody plants, excluding vines, 3 in. (7.6 ci	m) or
6				more in diameter at breast height (DBH), regardles	
7				height.	
8				Sapling/Shrub – Woody plants, excluding vines, I	000
9				than 3 in. DBH and greater than or equal to 3.28 ft	t (1
10				m) tall.	`
11.				Hart. All back as a configuration of the configurat	
	80	= Total Cove		<b>Herb</b> – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.	iless
50% of total cover: 40.00		total cover:		or orze, and weddy plante lede than e.ze it tall.	
Woody Vine Stratum (Plot size: 10 ft r )	2070 01	total cover.		Woody vine – All woody vines greater than 3.28 f	t in
				height.	
1,					
2					
3					
4				Hydrophytic	
5				Vegetation	
	:	= Total Cove	er	Present? Yes V No No	
50% of total cover:	20% of	total cover:			
Remarks: (Include photo numbers here or on a separate sl	neet.)			<u> </u>	
(	,				

Profile Desc	cription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	n the absen	ce of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	
0 - 18	7.5YR 4/1	70	2.5YR 3/6	30	С	М	Silty Cla	у
					-		-	
	_	<del></del>			<u> </u>			
-								
				-				
-								
		· ——			· ——			
	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Inc	licators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ace (S8) <b>(I</b>	MLRA 147,		Coast Prairie Redox (A16)
Black H	istic (A3)		Thin Dark Su	ırface (S9	) (MLRA	147, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)			Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da					Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) (I	_RR N,	Iron-Mangan		ses (F12) (	(LRR N,		
	A 147, 148)		MLRA 13	•			2	
	Bleyed Matrix (S4)		Umbric Surfa					Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (I	-21) <b>(MLR</b>	A 127, 147	7)	unless disturbed or problematic.
Restrictive	Layer (if observed):							
Type:								
Depth (in	ches):						Hydric S	oil Present? Yes No
Remarks:							-1	

Project/Site: Gleason			City/County:	Faulkner Coun	ty	Sampling Date: 2024	4-08-21
Applicant/Owner: Conway C						as Sampling Point: S-	
Investigator(s). Jimmy Rogers Section, Township, Range: S36 T6N R15W							
Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None Slope (%): 1						<u>,</u> ). 1	
Subregion (LRR or MLRA): N 118A Lat: 35.11676 Long: -92.55282 Datum: WGS 84						-	
Soil Map Unit Name: 24 - Perry clay, 0 to 1 percent slopes, occasionally flooded, Arkansas River NWI classification:							
•						·	
Are climatic / hydrologic condit			-				•
Are Vegetation, Soil	, or Hydrolog	y significa	antly disturbed?	Are "Normal (	Circumstances" p	present? Yes	No
Are Vegetation, Soil	, or Hydrolog	y naturall	y problematic?	(If needed, ex	kplain any answe	rs in Remarks.)	
SUMMARY OF FINDIN	GS – Attach s	ite map show	ing samplin	g point location	ns, transects	, important featu	res, etc.
Hydrophytic Vagotation Drop	ent? Yes	✓ No					
Hydrophytic Vegetation Pres Hydric Soil Present?	Yes	No V		Sampled Area	Voo	No. 4	
Wetland Hydrology Present?	Yes		– withi	n a Wetland?	Yes	No	
Remarks:			_				
Historically impact	Historically impacted area.						
HYDROLOGY							
Wetland Hydrology Indicat				<del>-</del>		ators (minimum of two r	equired)
Primary Indicators (minimum	of one is required:	-			Surface Soil	, ,	
Surface Water (A1)			tic Plants (B14)			getated Concave Surfa	ce (B8)
High Water Table (A2)			Sulfide Odor (C1)		Drainage Pa		
Saturation (A3)				Living Roots (C3)	Moss Trim L		
Water Marks (B1)			of Reduced Iron ( In Reduction in Ti		Dry-Season Crayfish Bur	Water Table (C2)	
Sediment Deposits (B2) Drift Deposits (B3)			Surface (C7)	iled Solis (Co)	-	isible on Aerial Imagery	, (CQ)
Algal Mat or Crust (B4)			lain in Remarks)	-		tressed Plants (D1)	y (C3)
Iron Deposits (B5)		Outer (Exp	idii iii i (ciridii(o)	-		Position (D2)	
Inundation Visible on Ae	rial Imagery (B7)			-	Shallow Aqu		
Water-Stained Leaves (F				-		aphic Relief (D4)	
Aquatic Fauna (B13)	,			- -	FAC-Neutral	. , ,	
Field Observations:							
Surface Water Present?	Yes No	Depth (inc	ches):				
Water Table Present?		Pepth (inc					
Saturation Present?	Yes No	Depth (inc	ches):	Wetland Hy	drology Preser	nt? Yes No	
(includes capillary fringe)  Describe Recorded Data (str	oom gougo monit	oring well geriel r	photos provious i	nanactions) if avail	abla:		
Describe Necolded Data (Sti	eam gauge, monit	oning well, aeriai p	niotos, previous i	rispections), ii avaii	able.		
Remarks:							

Sampl	ina	Point:	S-21
Sallibi	IIIu	TOILL.	· - ·

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 15 ft r )		Species?		Number of Dominant Species _	
1					(A)
				mat/110 052,171011, 011710(	(, ,
2				Total Number of Dominant	
3				Species Across All Strata: 6	(B)
4				Percent of Dominant Species	
5					(A/B)
6				mat/110 052,171011, 011710(	(,,,,,
7				Prevalence Index worksheet:	
1				Total % Cover of: Multiply by:	
		= Total Cov		OBL species $0 \times 1 = 0$	
50% of total cover:	20% of	total cover:		FACW species $0 \times 2 = 0$	
Sapling/Shrub Stratum (Plot size: 15 ft r					
1. Gleditsia triacanthos	20		FAC	FAC species $80 \times 3 = 240$	
2				FACU species 15 x 4 = 60	
3				UPL species $0 \times 5 = 0$	
				05 200	(B)
4				(1)	(5)
5				Prevalence Index = B/A = 3.15	
6				Hydrophytic Vegetation Indicators:	
7					
				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide suppo	ortina
50% of total cover: 10.00	20% of	total cover:	4.00	data in Remarks or on a separate sheet)	J. tg
Herb Stratum (Plot size: 5 ft r )					
1. Iva annua	20	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	)
2 unidentified sedge	15				
3. Ambrosia trifida	10		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ust
			FAC	be present, unless disturbed or problematic.	
4. Coleataenia anceps	10			Definitions of Four Vegetation Strata:	
<sub>5.</sub> Paspalum dilatatum	10		FAC		
6. Trifolium repens	5		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cr	
7 Verbena urticifolia	5		FAC	more in diameter at breast height (DBH), regardles height.	ss of
8 Xanthium strumarium	5		FAC	neight.	
·	5			Sapling/Shrub – Woody plants, excluding vines, lo	ess
<sub>9.</sub> an aster				than 3 in. DBH and greater than or equal to 3.28 ft	t (1
10				m) tall.	
11				Herb – All herbaceous (non-woody) plants, regard	less
	85	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.	1000
50% of total cover: 42.50					
Woody Vine Stratum (Plot size: 10 ft r )				<b>Woody vine</b> – All woody vines greater than 3.28 ft	t in
1 Rubus trivialis	10	.,	FACU	height.	
!· <u></u>			FACO		
2					
3					
4					
5.				Hydrophytic Vegetation	
·	10	T-4-1 O		Present? Yes No	
500/ - 54-4-1 5 00		= Total Cov			
50% of total cover: 5.00	_	total cover:			
Remarks: (Include photo numbers here or on a separate s	heet.)				

Profile Desc	cription: (Describe	to the depth	needed to document	the indicator o	r confirm	the absen	ce of indicators.)
Depth	Matrix		Redox Fe	atures			
(inches)	Color (moist)	<u></u> %	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 18	10YR 3/3	100				Silty Clay Loar	n
		· —— -					_
-							
<u> </u>		· — –					
	-						
-							
	-						
		· — — -					
		letion, RM=R	educed Matrix, MS=Ma	asked Sand Gra	ins.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:					Ind	icators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (S7	)			2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Below		LRA 147,		Coast Prairie Redox (A16)
Black H	istic (A3)		Thin Dark Surface	e (S9) (MLRA 14	<b>17, 148)</b>		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleyed Ma	atrix (F2)			Piedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Matrix (	F3)			(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark Surfa	ace (F6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Su				Other (Explain in Remarks)
	ark Surface (A12)		Redox Depressio				
	Mucky Mineral (S1) (I	_RR N,	Iron-Manganese	Masses (F12) <b>(L</b>	RR N,		
	A 147, 148)		MLRA 136)			2	
	Gleyed Matrix (S4)		Umbric Surface (I				ndicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Floodpl				wetland hydrology must be present,
	Matrix (S6)		Red Parent Mater	rial (F21) <b>(MLRA</b>	127, 147	) (	unless disturbed or problematic.
Restrictive	Layer (if observed):						
Type:							
Depth (in	ches):		<u> </u>			Hydric So	oil Present? Yes No 🔽
Remarks:							

Project/Site: Gleason	City/County: Faulkner County Sampling Date: 2024-09-04		
Applicant/Owner: Conway Corp	State: Arkansas Sampling Point: S-22		
Investigator(s):Jimmy Rogers	Section, Township, Range: S36 T6N R15W		
	Local relief (concave, convex, none): Concave Slope (%): 3		
Subregion (LRR or MLRA):         N 118A         Lat:         35.1159         Long:         -92.5515         Datum:         WG			
	asionally flooded, Arkansas River NWI classification:		
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes No (If no, explain in Remarks.)		
Are Vegetation, Soil, or Hydrology significan	utly disturbed? Are "Normal Circumstances" present? Yes No		
Are Vegetation, Soil, or Hydrology naturally			
	ng sampling point locations, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes No			
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland?  Yes  No ✓		
Wetland Hydrology Present? Yes No ✔	within a Wetland? Yes No		
Remarks:			
Periodically maintained field.			
HYDROLOGY			
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; check all that appl	y) Surface Soil Cracks (B6)		
Surface Water (A1) True Aquation			
1	ulfide Odor (C1) Drainage Patterns (B10)		
	izospheres on Living Roots (C3) Moss Trim Lines (B16)		
· · · · · · · · · · · · · · · · · · ·	Reduced Iron (C4) Dry-Season Water Table (C2)		
Sediment Deposits (B2) Recent Iron Thin Muck S	Reduction in Tilled Soils (C6) Crayfish Burrows (C8) urface (C7) Saturation Visible on Aerial Imagery (C9)		
	in in Remarks) Saturation visible on Aerial imagery (ce)		
Iron Deposits (B5)	Geomorphic Position (D2)		
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)		
Water-Stained Leaves (B9)	Microtopographic Relief (D4)		
Aquatic Fauna (B13)	FAC-Neutral Test (D5)		
Field Observations:			
Surface Water Present? Yes No Depth (inch			
Water Table Present? Yes No Depth (inch			
Saturation Present? Yes No Depth (inch (includes capillary fringe)	es): Wetland Hydrology Present? Yes No		
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:		
Damada			
Remarks:			

T 01 1 (D) 1 : 20 ft r	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r )	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 1	(A)
2				Total Number of Dominant	
3				Species Across All Strata: 3	(B)
4				Percent of Dominant Species	
5					(A/B)
6					
7				Prevalence Index worksheet:	
	=	= Total Cov	er	Total % Cover of: Multiply by:	
50% of total cover:	20% of	total cover:		OBL species $\frac{5}{2}$ $\times 1 = \frac{5}{2}$	
Sapling/Shrub Stratum (Plot size: 15 ft r )				FACW species $0 \times 2 = 0$	
1. Carya illinoinensis	10		FACU	FAC species $24$ $\times 3 = 72$	
2. Gleditsia triacanthos	5	~	FAC	FACU species 98 x 4 = 392	
3				UPL species 0 x 5 = 0	
4				Column Totals: <u>127</u> (A) <u>469</u>	(B)
5				2.00	
6				Prevalence Index = B/A = 3.69	
				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9	15			3 - Prevalence Index is ≤3.0 <sup>1</sup>	
750		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supp	orting
50% of total cover: <u>7.50</u>	20% of	total cover:	3.00	data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: 5 ft r )	75		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
1. Cynodon dactylon	75				,
2. Iva annua	8		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology m	ust
3. Paspalum dilatatum	5		FAC	be present, unless disturbed or problematic.	uot
4. Phyla lanceolata	5		OBL	Definitions of Four Vegetation Strata:	
<sub>5.</sub> Ambrosia trifida	3		FAC		
6. Elephantopus carolinianus	3		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 c more in diameter at breast height (DBH), regardle	
7. Solanum carolinense	3		FACU	height.	55 UI
8. Trifolium repens	3		FACU		
9. Vernonia gigantea	3		FAC	Sapling/Shrub – Woody plants, excluding vines, than 3 in. DBH and greater than or equal to 3.28 f	
10 Acalypha virginica	2		FACU	m) tall.	. (1
11 Trifolium repens	2		FACU		
· · · ·	112	= Total Cov		Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.	lless
50% of total cover: 56.00		total cover:		or orze, and weddy plante less than orze it am.	
Woody Vine Stratum (Plot size: 30 ft r )				<b>Woody vine</b> – All woody vines greater than 3.28 f	t in
				height.	
1					
2					
3					
4				Hydrophytic	
5				Vegetation Present?  Yes  No ✓	
<b></b>		= Total Cov		Present: res No	
50% of total cover:		total cover:			
Remarks: (Include photo numbers here or on a separate s	heet.)				

Sampling Point: S-22

OIL							Sampling	Point: S-22
rofile Desc	cription: (Describ	e to the dept	h needed to docur	ment the indicator	or confirm the	absence of indic	ators.)	
epth	Matrix			x Features			_	
nches)	Color (moist)	%	Color (moist)	<u>%</u> Type <sup>1</sup>		Texture	Remar	ks
0 - 4	10YR 3/2	100			Si	t Loam_		
4 - 18	10YR 4/3	100			Si	t Loam		
_				<u> </u>				
	_			<del></del>				
-								
-								
	-			<del></del>				
	-	<del></del>						
-								
-								
		<u> </u>		· · · · · · · · · · · · · · · · · · ·				
		epletion, RIM=	Reduced Matrix, M	S=Masked Sand Gra	ains. Lo	ocation: PL=Pore L		rıx. Hydric Soils³:
	Indicators:			(07)				-
Histosol			Dark Surface			2 cm Mucl		
	pipedon (A2)			elow Surface (S8) (N				16)
	istic (A3)			urface (S9) (MLRA 1	47, 148)	•	147, 148)	::In (E40)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma			Piedmont	136, 147)	olis (F 19)
	uck (A10) <b>(LRR N)</b>		Redox Dark			•	low Dark Surf	ace (TF12)
	d Below Dark Surfa			rk Surface (F7)		Other (Exp		
	ark Surface (A12)	acc (ATT)	Redox Depre			Other (EX	Jiain in Rema	iko)
	Aucky Mineral (S1)	(I RR N		ese Masses (F12) <b>(</b> I	RR N			
	A 147, 148)	(=::::,	MLRA 13					
	Gleyed Matrix (S4)			ace (F13) <b>(MLRA 13</b>	6. 122)	<sup>3</sup> Indicators o	f hydrophytic	vegetation and
	Redox (S5)			oodplain Soils (F19)			drology must l	-
-	l Matrix (S6)			Material (F21) (MLR			irbed or probl	
	Layer (if observed	d):		. , ,			•	
• -	ches):				н	ydric Soil Present	2 Vas	No <u> </u>
	onco).		<del></del>		•	yuno oon 1 1000110		
narks:								

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Gleason	City/County: Faul	kner County Sampling Date: 2024-09-04
Applicant/Owner: Conway Corp		State: Arkansas Sampling Point: S-23
	Section, Township	
		convex, none): Linear Slope (%): 1
Subregion (LRR or MLRA): N 118A		Long: -92.55119 Datum: WGS 84
		rkansas River NWI classification:
•		
Are climatic / hydrologic conditions on the site typic	·	
		Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach sit	te map showing sampling poi	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	✓ No	
Trydrophlytto vegetation i resent:	No Is the Sam	
Wetland Hydrology Present?	within a We	etland? Yes No
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; of	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)	Hydrogen Sulfide Odor (C1)	✓ Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living I	
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Sc	ils (C6) Crayfish Burrows (C8)
<u>✓</u> Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
<ul><li>✓ Water-Stained Leaves (B9)</li><li>✓ Aquatic Fauna (B13)</li></ul>		Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)
Field Observations:		TAC-Neutral Test (D3)
	Depth (inches): 3	
	Depth (inches): 8	
	Depth (inches): 0	Wetland Hydrology Present? Yes No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspect	lons), if available:
Remarks:		

Samp	lina	Point:	S-23
Sallib	III IU	r Oll II.	

20.4	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r )		Species?		Number of Dominant Species	
1. Taxodium distichum			OBL	That Are OBL, FACW, or FAC: 2	(A)
2				Total Number of Dominant	
3					(B)
4					` ,
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00	(A/B)
				That Are OBL, FACW, or FAC.	(A/b)
6		-		Prevalence Index worksheet:	
7	20 :	T-4-1 O		Total % Cover of: Multiply by:	
50% of total cover: 10.00		= Total Cov		OBL species 40 x 1 = 40	
	20% 01	total cover:	4.00	FACW species $\frac{5}{}$ x 2 = $\frac{10}{}$	
Sapling/Shrub Stratum (Plot size: 15 ft r )	20		ODI	FAC species $0 \times 3 = 0$	
1. Cephalanthus occidentalis	20		OBL		
2. Celtis laevigata	_5		FACW	FACU species $\frac{2}{0}$ $x = \frac{8}{0}$	
3. Carya illinoinensis	2		FACU	01 L species x 5	
4				Column Totals: 47 (A) 58	(B)
5				Prevalence Index = B/A = 1.23	
6				Hydrophytic Vegetation Indicators:	
7				✓ 1 - Rapid Test for Hydrophytic Vegetation	
8					
9				✓ 2 - Dominance Test is >50%  1	
v	27	= Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover: 13.50		total cover:		4 - Morphological Adaptations <sup>1</sup> (Provide supp	orting
Ε f+ r	20 /0 01	total cover.		data in Remarks or on a separate sheet)	
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	1)
1					
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology m	ust
3				be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	
5					
6				Tree – Woody plants, excluding vines, 3 in. (7.6 c	
7				more in diameter at breast height (DBH), regardle height.	SS OT
8					
				Sapling/Shrub – Woody plants, excluding vines,	
· ·				than 3 in. DBH and greater than or equal to 3.28 in) tall.	rt (1
10				m) tan.	
11		-		Herb – All herbaceous (non-woody) plants, regard	dless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover:	20% of	total cover:		<b>Woody vine</b> – All woody vines greater than 3.28	ft in
Woody Vine Stratum (Plot size: 30 ft r )				height.	
1					
2					
3					
4					
5				Hydrophytic Vegetation	
<u> </u>		= Total Cov		Present? Yes V No No	
50% of total cover:					
		total cover.			
Remarks: (Include photo numbers here or on a separate si	neet.)				

SOIL Sampling Point: S-23

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confirm	n the absen	ce of indicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 3	10YR 5/1	95	10YR 5/6	5	<u>C</u>	M	Clay	
3 - 18	7.5R 5/1	90	7.5YR 4/6	10	С	М	Clay	
				-		<del></del>		
-								
				-	-			
	-							
1 <sub>Type:</sub> C=C	noontration D=Don	lotion DM	=Reduced Matrix, MS		d Sand Ci	roine	<sup>2</sup> Location:	DI - Doro Liping M-Motriy
Hydric Soil		netion, Rivi	=Reduced Matrix, MS	s=iviaske	a Sana Gi	ains.		PL=Pore Lining, M=Matrix. icators for Problematic Hydric Soils <sup>3</sup> :
_			Dork Curfoso	(07)				•
Histosol	oipedon (A2)		Dark Surface Polyvalue Be		200 (58) (1	MI DA 147		2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su				, 140)	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			147, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Ma		(1 2)		_	(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark \$	, ,	F6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dar				_	Other (Explain in Remarks)
	ark Surface (A12)	- (	Redox Depre					
	lucky Mineral (S1) (	LRR N,	Iron-Mangan			(LRR N,		
	A 147, 148)		MLRA 13		` ,	`		
	Gleyed Matrix (S4)		Umbric Surfa	ce (F13)	(MLRA 1	36, 122)	<sup>3</sup>	ndicators of hydrophytic vegetation and
Sandy R	Redox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	48) v	wetland hydrology must be present,
Stripped	Matrix (S6)		Red Parent N	/laterial (l	F21) <b>(MLF</b>	RA 127, 147	7)	unless disturbed or problematic.
Restrictive I	Layer (if observed)							
Type:								
Depth (in	ches):						Hydric S	oil Present? Yes 🗸 No
Remarks:	<u> </u>							

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Gleason	City/County: Faulkner Cou	Inty Sampling Date: 2024-08-21		
Applicant/Owner: Conway Corp		State: Arkansas Sampling Point: S-24		
Investigator(s):Jimmy Rogers	Section, Township, Range:_S	36 T6N R15W		
Landform (hillslope, terrace, etc.): Floodplain				
Subregion (LRR or MLRA): N 118A		2.55168 Datum: WGS 84		
Soil Map Unit Name: 24 - Perry clay, 0 to 1 perce		<u>_</u>		
Are climatic / hydrologic conditions on the site typical	al for this time of year? Yes No	(If no, explain in Remarks.)		
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Norma	al Circumstances" present? Yes No		
Are Vegetation, Soil, or Hydrology _				
		ons, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes	✓ No			
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes  Yes	Is the Sampled Area	Van Na d		
Wetland Hydrology Present?	No within a Wetland?	Yes No		
Remarks:				
Maintained field.				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; ch	eck all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)		
	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
	Oxidized Rhizospheres on Living Roots (C3)			
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)			
Drift Deposits (B3) Algal Mat or Crust (B4)	Thin Muck Surface (C7) Other (Explain in Remarks)	<ul><li>Saturation Visible on Aerial Imagery (C9)</li><li>Stunted or Stressed Plants (D1)</li></ul>		
Iron Deposits (B5)	Other (Explain in Remarks)	Geomorphic Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)		
Water-Stained Leaves (B9)		Microtopographic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutral Test (D5)		
Field Observations:				
	Depth (inches):			
	Depth (inches):			
Saturation Present? Yes No Ves No No Ves No	Depth (inches): Wetland	Hydrology Present? Yes No_ 🗸		
Describe Recorded Data (stream gauge, monitoring	ig well, aerial photos, previous inspections), if av	ailable:		
Remarks:				

Samp	lina	Point:	S-24
Sallib	III IU	r Oll II.	

00.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 75.00 (A/B)
6				That Are OBL, I AGW, OF I AC.
7				Prevalence Index worksheet:
r		= Total Cov		Total % Cover of: Multiply by:
50% of total cover:				OBL species 1 x 1 = 1
Sapling/Shrub Stratum (Plot size: 15 ft r )	20 /0 01	total cover.		FACW species $2   x 2 = 4$
1. Gleditsia triacanthos	10	~	FAC	FAC species 90 x 3 = 270
	5		FAC	FACU species 49
2. Diospyros virginiana	3			UPL species 0 x 5 = 0
3. Carya illinoinensis			FACU	
4				Column Totals: <u>142</u> (A) <u>471</u> (B)
5				Prevalence Index = B/A = 3.31
6				Hydrophytic Vegetation Indicators:
7				-
8				1 - Rapid Test for Hydrophytic Vegetation
9		-		✓ 2 - Dominance Test is >50%
<u> </u>	18	= Total Cov		3 - Prevalence Index is ≤3.0¹
50% of total cover: 9.00		total cover:		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5 ft r		10101 00101.		data in Remarks or on a separate sheet)
1 Iva annua	60	~	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Trifolium repens	25		FACU	
3. Cynodon dactylon	15		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
			FAC	be present, unless disturbed or problematic.
4. Ambrosia trifida	10		FAC	Definitions of Four Vegetation Strata:
5. Croton capitatus	5			The Meady plants avaluating since 2 in (7.0 cm) or
6. Paspalum dilatatum	5		FAC	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. unidentified sedge	5			height.
8. Andropogon virginicus	3		FACU	
9. Solanum carolinense	3		FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10 Celtis laevigata	2		FACW	m) tall.
11. Phyla lanceolata	1	-	OBL	
11	134	Total Cau		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 67.00		= Total Cov total cover:		of size, and woody plants less than 3.20 it tall.
Woody Vine Stratum (Plot size: 30 ft r )	20 /0 01	total cover.		Woody vine – All woody vines greater than 3.28 ft in
				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
		= Total Cov	er	Present? Yes V No No
50% of total cover:	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate si	heet.)			
	•			

Sampling Point: S-24

								int: <u>S-24</u>
ofile Desc	ription: (Describ	e to the dep	th needed to docu	ment the indicator	or confirm the	absence of indicat	ors.)	
epth	Matrix		Redo	x Features				
nches)	Color (moist)	%	Color (moist)	<u>% Type<sup>1</sup></u>	Loc <sup>2</sup> Te	exture	Remarks	
0 - 8	10YR 3/2	100			Silt	Loam		
8 - 18	10YR 4/3	100			Silt	Loam		
_								
					<del></del>	<del></del>		
-	-		-		·			
-								
_								
-								
be. C=Cc	oncentration D=De	enletion RM=	Reduced Matrix, M	S=Masked Sand Gr	ains <sup>2</sup> l oc	cation: PL=Pore Lin	ing M=Matrix	
	ndicators:	op.ouo,	. roddodd maani, m	<u> </u>		Indicators for P		dric Soils <sup>3</sup> :
Histosol			Dark Surface	e (S7)		2 cm Muck (	-	
	oipedon (A2)			elow Surface (S8) <b>(N</b>	ILRA 147. 148)			<i>-</i>
Black His				urface (S9) (MLRA 1		(MLRA 1	, ,	
	n Sulfide (A4)			ed Matrix (F2)	,	Piedmont FI		(F19)
	Layers (A5)		Depleted Ma			(MLRA 1		` ,
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface (F6)		Very Shallov	w Dark Surface	(TF12)
	d Below Dark Surfa	ace (A11)		rk Surface (F7)		Other (Expla	ain in Remarks	)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1)	(LRR N,		ese Masses (F12) (	LRR N,			
	147, 148)		MLRA 13		0 400)	3, ,, ,		
	Sleyed Matrix (S4)			ace (F13) (MLRA 13		<sup>3</sup> Indicators of h		
-	ledox (S5)			oodplain Soils (F19)			ology must be p	
	Matrix (S6)  _ayer (if observed)	۸.	Red Parent	Material (F21) (MLR	A 127, 147)	uniess disturt	oed or problem	atic.
	-							
_								🗸
Type:					Ну	dric Soil Present?	Yes	No <u>*</u>
Depth (inc	ches):							
Depth (inc			<u> </u>		·			
Depth (inc					·			
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Depth (inc								
Depth (inc								

## WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: Gleason	City/County	y: Faulkner County	у <u> </u>	Sampling Date: 2024-08-21		
Applicant/Occupant Conway Corp						
Investigator(s)-Jimmy Rogers	Section, To	ownship, Range: S36	6 T6N R15W			
Landform (hillslope, terrace, etc.): Floodplain				Slope (%): 2		
Subregion (LRR or MLRA): N 118A Lat: 35				Datum: WGS 84		
Soil Map Unit Name: 24 - Perry clay, 0 to 1 percent slop						
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes <u></u>	No (If	no, explain in Rer	marks.)		
Are Vegetation, Soil, or Hydrologys	significantly disturbed?	Are "Normal C	ircumstances" pre	esent? Yes No _		
Are Vegetation, Soil, or Hydrology r	-					
SUMMARY OF FINDINGS – Attach site map			•			
Hydrophytic Vegetation Present? Yes	No 🗸					
Trydrophytic vegetation resent:	ls th	he Sampled Area	Yes	No ✔		
	No 🗸	nin a Wetland?		<del></del>		
Remarks:						
Maintained field.						
HYDROLOGY						
Wetland Hydrology Indicators:		<u>S</u>	econdary Indicato	rs (minimum of two required)		
Primary Indicators (minimum of one is required; check all	that apply)		Surface Soil Cr	racks (B6)		
	e Aquatic Plants (B14)		<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>			
1						
	dized Rhizospheres on	-	Moss Trim Line			
<u> </u>	sence of Reduced Iron	· · ·	Dry-Season Water Table (C2)			
	ent Iron Reduction in T	illed Solls (C6)				
	n Muck Surface (C7) er (Explain in Remarks)	_		ble on Aerial Imagery (C9) essed Plants (D1)		
Iron Deposits (B5)	si (Explain in Nemarks)	_	Geomorphic Policy			
Inundation Visible on Aerial Imagery (B7)		_	Shallow Aquita			
Water-Stained Leaves (B9)		_	Microtopograph			
Aquatic Fauna (B13)		_	FAC-Neutral Te	• ,		
Field Observations:						
Surface Water Present? Yes No De	pth (inches):	_				
Water Table Present? Yes No De						
Saturation Present? Yes No De (includes capillary fringe)			drology Present?	? Yes No		
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous	inspections), if availa	able:			
Remarks:						
Remarks.						

Samn	lina	Point:	S-25
Jailib	III IU	r Oll It.	

70 ft r	Absolute	Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft r ) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 1 (	(A)	
2					, , ,	
3				Total Number of Dominant Species Across All Strata: 2	(B)	
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC: 50.00	A/B)	
6				Prevalence Index worksheet:		
7		<del></del>		Total % Cover of: Multiply by:		
50% of total cover:		= Total Cover:		OBL species 0 x 1 = 0		
Sapling/Shrub Stratum (Plot size: 15 ft r )	20 /6 01	iolai covei.		FACW species $\frac{5}{}$ x 2 = $\frac{10}{}$		
Distance a sidentalia	5	~	FACW	FAC species 16 x 3 = 48		
·· <del>·</del>			171011	FACU species 90 x 4 = 360		
2				UPL species $0 \times 5 = 0$		
3				111 110	(B)	
4				Column rotals: (r)	(5)	
5				Prevalence Index = B/A = 3.76		
6				Hydrophytic Vegetation Indicators:		
7				1 - Rapid Test for Hydrophytic Vegetation		
8				2 - Dominance Test is >50%		
9	_			3 - Prevalence Index is ≤3.0 <sup>1</sup>		
50% of total cover: 2.50		Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide suppo	orting	
·	20% 01	total cover:	1.00	data in Remarks or on a separate sheet)		
Herb Stratum (Plot size: 5 ft r  1. Cynodon dactylon	80	~	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	)	
2. Croton capitatus	5		17100			
3. Eupatorium serotinum	5		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ıst	
	5		FAC	be present, unless disturbed or problematic.		
4. Setaria parviflora	5		FACU	Definitions of Four Vegetation Strata:		
5. Solanum carolinense			FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	n) or	
6. Diospyros virginiana	3			more in diameter at breast height (DBH), regardless of		
7. Andropogon virginicus	3		FACU	height.		
8. Xanthium strumarium			FAC	Sapling/Shrub – Woody plants, excluding vines, le	ess	
<sub>9.</sub> Cyperus echinatus	2		FACU	than 3 in. DBH and greater than or equal to 3.28 ft (1		
10				m) tall.		
11				Herb – All herbaceous (non-woody) plants, regardl	less	
		Total Cov		of size, and woody plants less than 3.28 ft tall.		
50% of total cover: <u>55.50</u>	20% of	total cover:	22.20	Woody vine – All woody vines greater than 3.28 ft	in	
Woody Vine Stratum (Plot size: 30 ft r )				height.		
1						
2						
3						
4				Hydrophytic		
5				Vegetation		
		= Total Cov		Present? Yes No		
50% of total cover:		total cover:				
Remarks: (Include photo numbers here or on a separate s	heet.)					

SOIL Sampling Point: S-25

Profile Desc	ription: (Describe	to the dept	th needed to docum	nent the i	ndicator	or confirm	the abse	nce of indicator	rs.)
Depth	Matrix			x Features					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u> </u>	Remarks
0 - 4	10YR 3/3	100					Sandy Lo	am	
4 - 18	10YR 4/3	100					Sand		
									_
		. ——							
									_
-									
	-								
									_
									_
1Type: C=C	oncentration, D=Dep	letion PM=	Peduced Matrix MS	S=Masked	Sand Gra	nine	<sup>2</sup> Location	n: PL=Pore Linin	a M=Matrix
Hydric Soil		ielion, Kivi-	Reduced Matrix, Mc	5-IVIASKEU	Sallu Gla	11115.	Location	dicators for Pro	blematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(97)					10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		ce (S8) <b>(M</b>	II RΔ 147		Coast Prairie	
Black Hi			Thin Dark Su				140) _	Coast Frame (MLRA 147	
	n Sulfide (A4)		Loamy Gleye			41, 140,			odplain Soils (F19)
	Layers (A5)		Depleted Mar	•	,		_	(MLRA 136	
	ick (A10) <b>(LRR N)</b>		Redox Dark		6)				Dark Surface (TF12)
	Below Dark Surface	e (A11)	Depleted Dar				_	Other (Explair	
Thick Da	ark Surface (A12)		Redox Depre	essions (F	8)				
Sandy M	lucky Mineral (S1) (L	.RR N,	Iron-Mangan	ese Masse	es (F12) <b>(I</b>	_RR N,			
	\ 147, 148)		MLRA 13					_	
-	lleyed Matrix (S4)		Umbric Surfa					-	drophytic vegetation and
-	edox (S5)		Piedmont Flo					-	ogy must be present,
	Matrix (S6)		Red Parent N	/laterial (F	21) <b>(MLR</b>	A 127, 147	7)	unless disturbe	d or problematic.
Restrictive I	_ayer (if observed):								
Type:									
Depth (inc	ches):						Hydric	Soil Present?	Yes No
Remarks:							- L		

# Attachment B

**Representative Photos** 



Photograph 1: WET-A, near S-02.



Photograph 2: WET-A, near S-02.



Photograph 3: WET-A, near S-03.



Photograph 4: WET-A, near S-03



Photograph 5: WET-B, near S-10.



Photograph 6: WET-B, looking east at WET-B from near S-11.



Photograph 7: WET-C, near S-17.



Photograph 8: WET-C, central portion.



Photograph 9: WET-C, linear portion at northern end.



Photograph 10: WET-D, near S-23.



Photograph 11: Overlooking WET-D from near S-22 (upland area in foreground).



Photograph 12: WET-D, near S-20, looking north.



Photograph 13: WET-D, near S-20, looking south.



Photograph 14: Upland field, near S-06.



Photograph 15: Upland field, near S-25.



Photograph 16: Upland area south of WET-D, near S-24.



Photograph 17: Scrub area near S-21.



Photograph 18: Upper terrace, near S-07.



Photograph 19: Lower terrace, near S-08.



Photograph 20: Upland riparian terrace.



Photograph 21: Upland riparian terrace.



Photograph 22: Cadron Creek, near S-08.



Photograph 23: Cadron creek, near OW-1.



Photograph 24: OW-1.



Photograph 25: OW-1 overflow area.



Photograph 26: EPH-1.

# **Attachment C**

Reference Maps

# PESI A WILDLIPE SERVICE

### U.S. Fish and Wildlife Service

# National Wetlands Inventory

## Wetlands



July 25, 2024

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

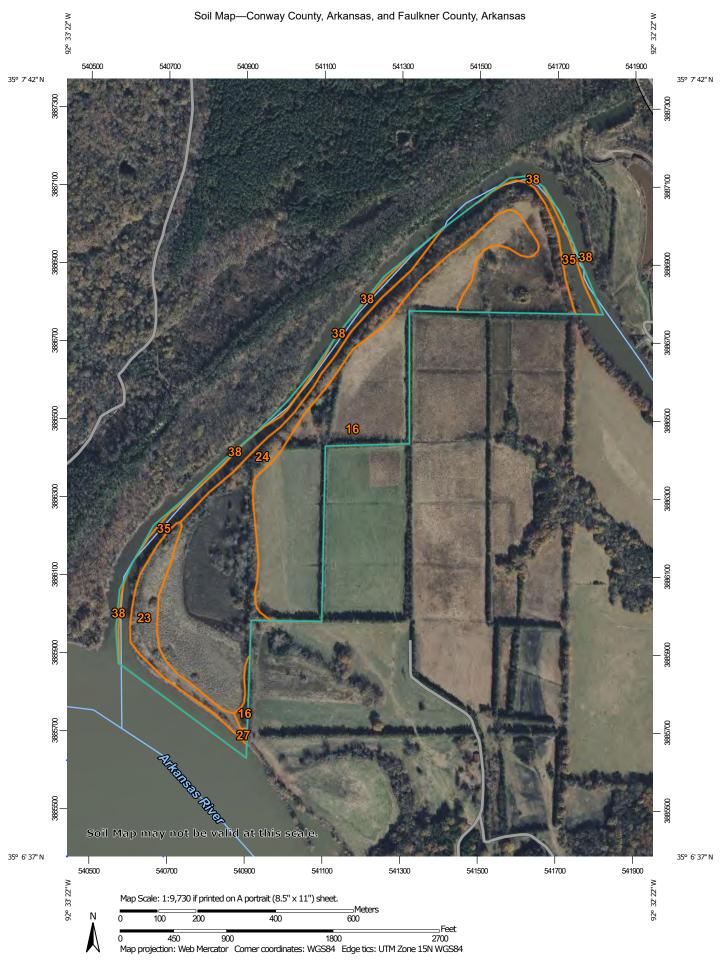
Lake

Other

Riverine

\_\_\_ Othe

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



#### MAP LEGEND

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons



Soil Map Unit Points

#### Special Point Features

(o) Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

+ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

#### **----**

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot
 Other
 Othe

Special Line Features

#### Water Features

Δ

Streams and Canals

#### Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

#### Background

Aerial Photography

#### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Conway County, Arkansas Survey Area Data: Version 22, Sep 8, 2023

Soil Survey Area: Faulkner County, Arkansas Survey Area Data: Version 23, Sep 8, 2023

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 19, 2020—Nov 28, 2020

#### **MAP LEGEND**

### **MAP INFORMATION**

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

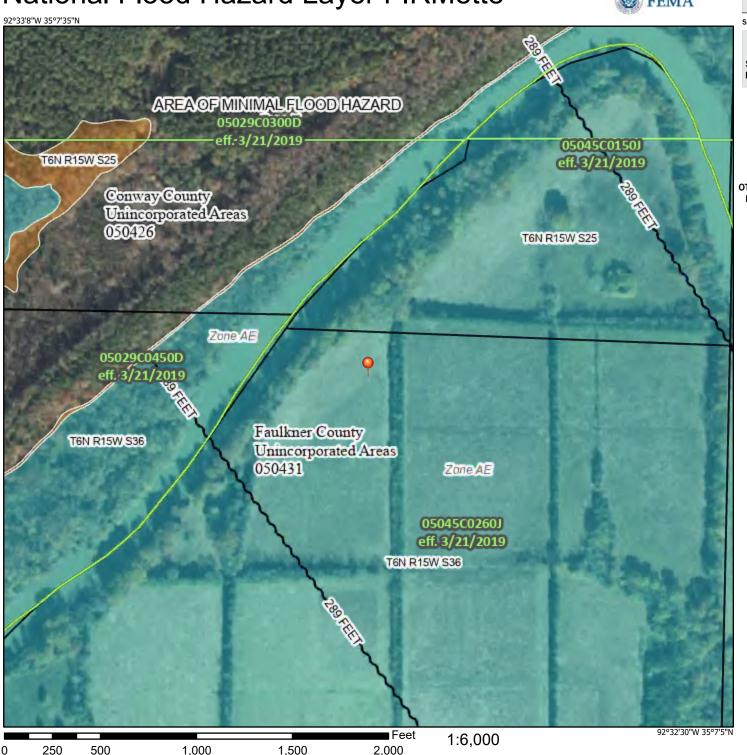
## **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
38	Water	2.4	1.9%
Subtotals for Soil Survey Area	a	2.4	1.9%
Totals for Area of Interest		121.9	100.0%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
16	Moreland silty clay	43.6	35.8%
23	Ouachita silt loam, occasionally flooded	7.1	5.8%
24	Perry clay, 0 to 1 percent slopes, occasionally flooded, Arkansas River	52.4	43.0%
27	Roxana very fine sandy loam	0.2	0.1%
35	Water	16.2	13.3%
Subtotals for Soil Survey Area	1	119.5	98.1%
Totals for Area of Interest		121.9	100.0%

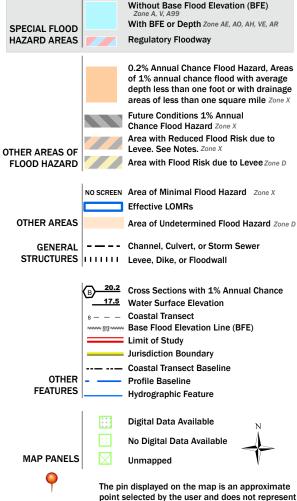
## National Flood Hazard Layer FIRMette





#### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/25/2024 at 8:44 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

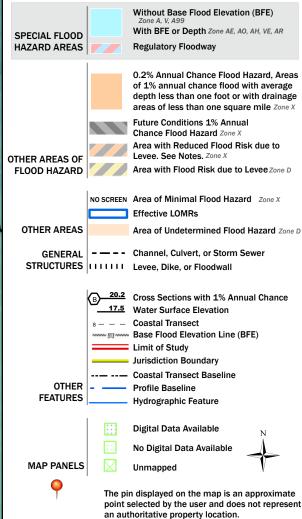
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

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The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/25/2024 at 8:48 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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