

June 22, 2026

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Ms. Shelley Short
President & CEO – Arkadelphia Regional Economic Development Alliance & Area Chamber of Commerce
CEO – Economic Development Corporation of Clark County, Arkansas
201 North 26th Street
Arkadelphia, AR 71923

RE: Section 404 Delineation – Transmittal Cover Letter
Gurdon Industrial Site – Gum Springs, Clark County, Arkansas
ECCI Project # 5213-3004

Dear Ms. Short:

Please find enclosed the Section 404 delineation report for the Gurdon Industrial Site project.

During the delineation, ECCI observed three wetland features (1.09 acre) onsite.

Federal jurisdiction over surface waters is determined according to the pre-2015 regulatory regime, consistent with the Supreme Court’s decision in *Sackett v. EPA* (No. 21-454: May 25, 2023) and subsequent *Memorandum to the Field Between the U.S. Department of the Army, U.S. Army Corps of Engineers, and the U.S. Environmental Protection Agency Concerning the Proper Implementation of “Continuous Surface connection” Under the Definition of “Waters of the United States” Under the Clean Water Act* (March 12, 2025).

The onsite wetlands appear to have a continuous surface hydrologic connection to a downstream regulated water that is not relatively permanent.

Based on the Section 404 delineation and in light of the most recent information regarding jurisdiction issued by the USACE / EPA, it is the opinion of ECCI that the onsite wetlands will likely not be considered jurisdictional under Section 404 of the Clean Water Act (CWA). Projects impacting aquatic features that are not jurisdictional under Section 404 of the CWA generally do not require authorization from the USACE Regulatory Division. This jurisdictional assessment is based on the lack of a relatively permanent surface water connection to a regulated water body.

These findings are offered based on our best professional judgement and recent informal discussions with USACE personnel. We offer our comments with regard to onsite features having the potential for USACE regulation under Section 404 of the CWA. However, until approved by



the USACE, the information provided is considered unofficial. The USACE allows consultants to prepare information for submittal to the USACE for approval, but only the USACE can make official decisions with regard to jurisdiction of aquatic features under Section 404 of the CWA. Therefore, if an official decision regarding jurisdiction is desired, the enclosed delineation report may be provided to the USACE with a request for an Approved Jurisdictional Determination.

We thank you for the opportunity to provide information regarding your project. If you have any questions or need additional information regarding our findings presented in the delineation report, please do not hesitate to contact me or Lisa Willis at 501-975-8100.

Respectfully submitted,
ECCI

Jimmy Rogers
Project Manager

enclosure



**SECTION 404 DELINEATION
GURDON INDUSTRIAL SITE
CLARK COUNTY, ARKANSAS**

JUNE 16, 2026

Prepared for:
**ECONOMIC DEVELOPMENT CORPORATION OF CLARK COUNTY, ARKANSAS
ATTN: SHELLEY SHORT
201 NORTH 26TH STREET
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Prepared by:



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ECCI Project No. 5213-3004

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- ATTACHMENT A: Sampling Point Data Sheets
- ATTACHMENT B: Representative Photos
- ATTACHMENT C: Reference Maps

1.0 INTRODUCTION

The Economic Development Corporation of Clark County, Arkansas contracted with Engineering Compliance and Construction, Inc. (ECCI) of Little Rock, Arkansas, to delineate Section 404 wetlands and other waters of the United States (WOTUS) within the proposed project area of approximately 71.4 acres. The project area is located west of Hwy 67 South (N. Elm Street) and immediately south of the Missouri Pacific Railroad, north of Gurdon, Clark County, Arkansas (Figure 1). The area of the delineation is mapped on the USGS *The National Map* Topo basemap for quadrangle Gurdon, AR (7.5-minute series) (Figures 2 and 3). The project area is located in part of Section 21, Township 9 South, Range 20 West. Approximate central coordinates of the project area are 33.94360°N, -93.15346°W.

2.0 MATERIALS AND METHODS

ECCI 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 during May 2026. 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: Atlantic and Gulf Coastal Plain Region Version 2.0* (Engineer Research and Development Center 2010).

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). Thirteen (13) sampling point locations were established within the project area, along with two (2) sampling point locations established adjacent to the project area as reference points; data were collected on vegetation, hydrology, and soils at each location (Table 1; Figures 3 and 4; Attachment A). A previous (2024) delineation report, which encompassed a portion of the Gurdon Industrial Site, was also reviewed.

The *Keys to the Flora of Arkansas* (Smith 1994) was used to confirm certain plant identifications and the *USACE Cold Regions Research and Engineering Laboratory's Atlantic and Gulf Coastal Plain Regional Wetland Plant List* (2022) 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) *Clark 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 collector 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 project area is generally flat and, overall, gently sloping toward the south. Five primary plant communities were observed within the project area, as described in Section 3.2.1 below. Three wetlands and no other aquatic features were observed within the project area. Figures 1 through 4 provide maps of the 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.

Historic aerial images indicate that the majority of the project area was likely cleared of trees in the early 1980s and since that time has been in silviculture. Planted pine trees were harvested circa 2018, then replanted. The replanted pine trees were cleared circa 2025, and the area is currently maintained as an open field. Areas to the south and east of the former pine silviculture area are in a mature forested and mid-successional vegetated state.

3.2 Wetlands

ECCI observed three features, WET-A1, WET-A2, and WET-B, totaling 1.09 acre, that meet the technical criteria for classification as wetlands (Figures 3 and 4; Attachment B, Photos 9-14). WET-A is located near the southeastern corner of the site and, for the purposes of this report, has been separated into WET-A1 and WET-A2, representing two vegetative cover types. WET-B is located near the southwestern corner of the site. Table 2 provides a summary of each wetland feature. The observed wetland features are generally linear drainageway features, with some wider depressional areas, extending offsite to the south as ephemeral drainage features. These features appear to be historic natural drainageways. These wetland features have been planted in pine along with the surrounding areas. WET-A1 and WET-B were formerly planted in pine and are currently maintained herbaceous wetland features. WET-A2 is a generally linear drainageway that is within a mixed forest area.

Site observations, as well as available aerial image resources, reveal a likely continuous surface hydrologic connection to a downstream traditionally navigable water (TNW), which is

relatively permanent (see Section 3.4). However, downstream and offsite, the wetland features were observed to drain to ephemeral channels; therefore, these wetland features do have a continuous surface hydrologic connection to a downstream TNW, which is not relatively permanent.

3.2.1 Vegetation

The project area consists of five primary vegetation communities, i.e., a maintained field (former silviculture) community, a scrub/shrub upland community, a mixed-forest upland community, an herbaceous drainageway wetland community, and a mixed-strata drainageway wetland community.

The maintained field (former silviculture) community was observed throughout the majority of the project area. This community was observed to be vegetated by a variety of opportunistic herbaceous species. Species commonly observed as dominant within this community include velvet rosette grass (*Dichanthelium scoparium*), few-flower rosette grass (*Dichanthelium oligosanthes*), winter bent grass (*Agrostis hyemalis*), Japanese chess (*Bromus japonicus*), Carolina crane's-bill (*Geranium carolinianum*), and cornsalad (*Valerianella radiata*) (Attachment B, Photos 3 and 4).

The scrub/shrub upland community, located in the eastern portion of the project area, is dominated by pignut hickory (*Carya glabra*), sweet-gum (*Liquidambar styraciflua*), green ash (*Fraxinus pennsylvanica*), honey-locust (*Gleditsia triacanthos*), red maple (*Acer rubrum*), several oak species (*Quercus* sp.), groundsel-tree (*Baccharis halimifolia*), tall goldenrod (*Solidago altissima*), and southern dewberry (*Rubus trivialis*) (Attachment B, Photo 5).

The mixed-forest upland community, located in the southeastern portion of the project area, is dominated by loblolly pine (*Pinus taeda*), pignut hickory, bitternut hickory (*Carya cordiformis*), shagbark hickory (*Carya ovata*), sweet-gum, winged elm (*Ulmus alata*), water oak (*Quercus nigra*), willow oak (*Quercus phellos*), white oak (*Quercus alba*), groundsel-tree, inland sea-oats (*Chasmanthium sessiliflorum*), Virginia-creeper (*Parthenocissus quinquefolia*), and southern dewberry (Attachment B, Photo 6).

The herbaceous drainageway wetland community, located within WET-A1 and WET-B, is dominated by water-purslane (*Ludwigia palustris*), few-flower rosette grass, winter bent grass, marsh flatsedge (*Cyperus pseudovegetus*), purple flatsedge (*Cyperus rotundus*), and beaked cut-throat grass (*Coleataenia anceps*) (Attachment B, Photos 9, 10, 13, and 14).

The mixed-strata drainageway wetland community, located within WET-A2, is dominated by willow oak, water oak, green ash, deciduous holly (*Ilex decidua*), and water-willow (*Justicia americana*) (Attachment B, Photos 11 and 12).

Due to the disturbance of much of the project area, two reference point locations were established to the west and southwest of the project area in an undisturbed, upland mixed forest community. Dominant vegetation observed at these locations includes white oak (*Quercus alba*), willow oak, black oak (*Quercus velutina*), shag-bark hickory, parsley-leaf hawthorn (*Crataegus marshallii*), slender wood oats (*Chasmanthium laxum*), eastern poison ivy (*Toxicodendron radicans*), and Japanese honeysuckle (Attachment B, Photos 7 and 8).

Positive indicators of hydrophytic vegetation were observed at nine of the thirteen sampling point locations, i.e., B-5 through B-13 (Table 1; Attachment A). Other than the wetland features (which have also been impacted by recent land clearing activities), and as evidenced by the lack of hydrophytic vegetation at the reference point locations, it is likely that positive indicators of hydrophytic vegetation in some areas of the site are the result of opportunistic species growing in response to recent land clearing activities.

3.2.2 Wetland Hydrology

Hydrology within the onsite wetland areas appears to be primarily associated with seasonal runoff/short term inundation during and following periods of rainfall. Hydrologic indicators observed within the onsite wetland features include surface water, high water table, saturation, aquatic fauna, drainage patterns, crayfish burrows, saturation visible on aerial imagery, and positive FAC-Neutral tests.

Positive indicators of hydrology were observed at four of the thirteen onsite sampling point locations, i.e., B-6, B-7, B-9, and B-11, each within observed wetland features (Table 1; Attachment A).

3.2.3 Soils

Table 3 summarizes soils mapped within the project area 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 Clark County, Arkansas. The majority of the project area is mapped as Eutaw silty clay loam, 0 to 2 percent slopes (>65% of the project area). Positive indicators of hydric soils were observed at eight of the thirteen onsite sampling point locations, i.e., B-4, B-6, B-7, and B-9 through B-13 (Table 1; Attachment A). As evidenced by the lack of hydric soils at the reference point locations, it is likely that the observed hydric soils have developed in response to alterations in hydrology and soil exposure to oxygen as a result of previous silviculture and recent land clearing activities.

Table 1 Summary of findings at each of the 13 onsite and 2 offsite sampling point locations.

| Sampling Point | Hydrophytic Vegetation | Hydric Soils | Wetland Hydrology | Technical Wetland |
|--------------------------------|------------------------|--------------|-------------------|-------------------|
| <i>Onsite Sampling Points</i> | | | | |
| B-1 | No | No | No | No |
| B-2 | No | No | No | No |
| B-3 | No | No | No | No |
| B-4 | No | Yes | No | No |
| B-5 | Yes | No | No | No |
| B-6 | Yes | Yes | Yes | Yes |
| B-7 | Yes | Yes | Yes | Yes |
| B-8 | Yes | No | No | No |
| B-9 | Yes | Yes | Yes | Yes |
| B-10 | Yes | Yes | No | No |
| B-11 | Yes | Yes | Yes | Yes |
| B-12 | Yes | Yes | No | No |
| B-13 | Yes | Yes | No | No |
| <i>Offsite Sampling Points</i> | | | | |
| R-1 | No | No | No | No |
| R-2 | No | No | No | No |

Table 2 Summary of three wetland features

| Wetland ID | Wetland Vegetative Type | Acreage (acres onsite) | Photo #'s |
|-------------------|--------------------------------|-------------------------------|------------------|
| WET-A1 | Herbaceous drainageway | 0.67 | 9, 10 |
| WET-A2 | Mixed-strata drainageway | 0.28 | 11, 12 |
| WET-B | Herbaceous drainageway | 0.14 | 13, 14 |

Table 3 Summary of soil map units

| Soil Map Unit Name | Description | Hydric |
|--|--|---------------|
| <i>Clark County, Arkansas</i> | | |
| Eutaw silty clay loam, 0 to 2 percent slopes | Poorly drained soils found on flats | Yes |
| Gurdon silt loam, 1 to 3 percent slopes | Somewhat poorly drained soils found on terraces | Yes |
| Kipling silt loam, 0 to 2 percent slopes | Somewhat poorly drained soils found on interfluves | Yes |
| Urbo silty clay loam, occasionally flooded | Somewhat poorly drained soils found on floodplains | Yes |

3.3 Other Waters of the US

The historic 1901 USGS topographic map illustrates no aquatic features within the project area. The 1970, 1972, 1973, 2014, 2017, and 2020 USGS topographic maps illustrate a single aquatic feature onsite, i.e., a stream channel near the southwestern corner of the project area. Similarly, the NWI maps this same stream channel (Attachment C). The stream channel is classified by NWI within the project area as R4SBC (a riverine, intermittent streambed, seasonally flooded). The mapped channel near the southwestern corner of the project area is not readily visible in the aerial images reviewed (1949, 1956, 1968, 1976, 1983, 1985, 1989, 1990, 1994, 2000, 2006, 2009, 2010, 2013, 2015, 2017, 2019, and 2021). In five of the aerial images, i.e., 1983, 1985, 1989, 1990, and 1994, a drainageway is readily visible near the southeastern corner of the project area.

The USGS-mapped channel near the southwestern corner of the project area was observed to be part of a linear drainageway wetland feature, i.e. WET-B. Field observations revealed the drainageway visible in select aerial images near the southeastern corner of the project area to be part of a linear drainageway wetland feature, i.e. WET-A.

Field observations confirmed a lack of other WOTUS, e.g., ponds, lakes, streams, rivers, etc., within the project area.

3.4 Downstream Hydrologic Connectivity

Drainage from the site generally flows toward the south. Ephemeral drainages were observed offsite just southwest of WET-A2 and south of WET-B. Although the downstream flow path was not traced in the field due to lack of access to adjoining properties, available desktop resources indicate that drainage from the project area is conveyed by two drainageways south to Caney Creek; Caney Creek flows generally east to Terre Noire Creek; Terre Noire Creek flows generally southeast to the Little Missouri River; the Little Missouri River flows east to the Ouachita River, a TNW.

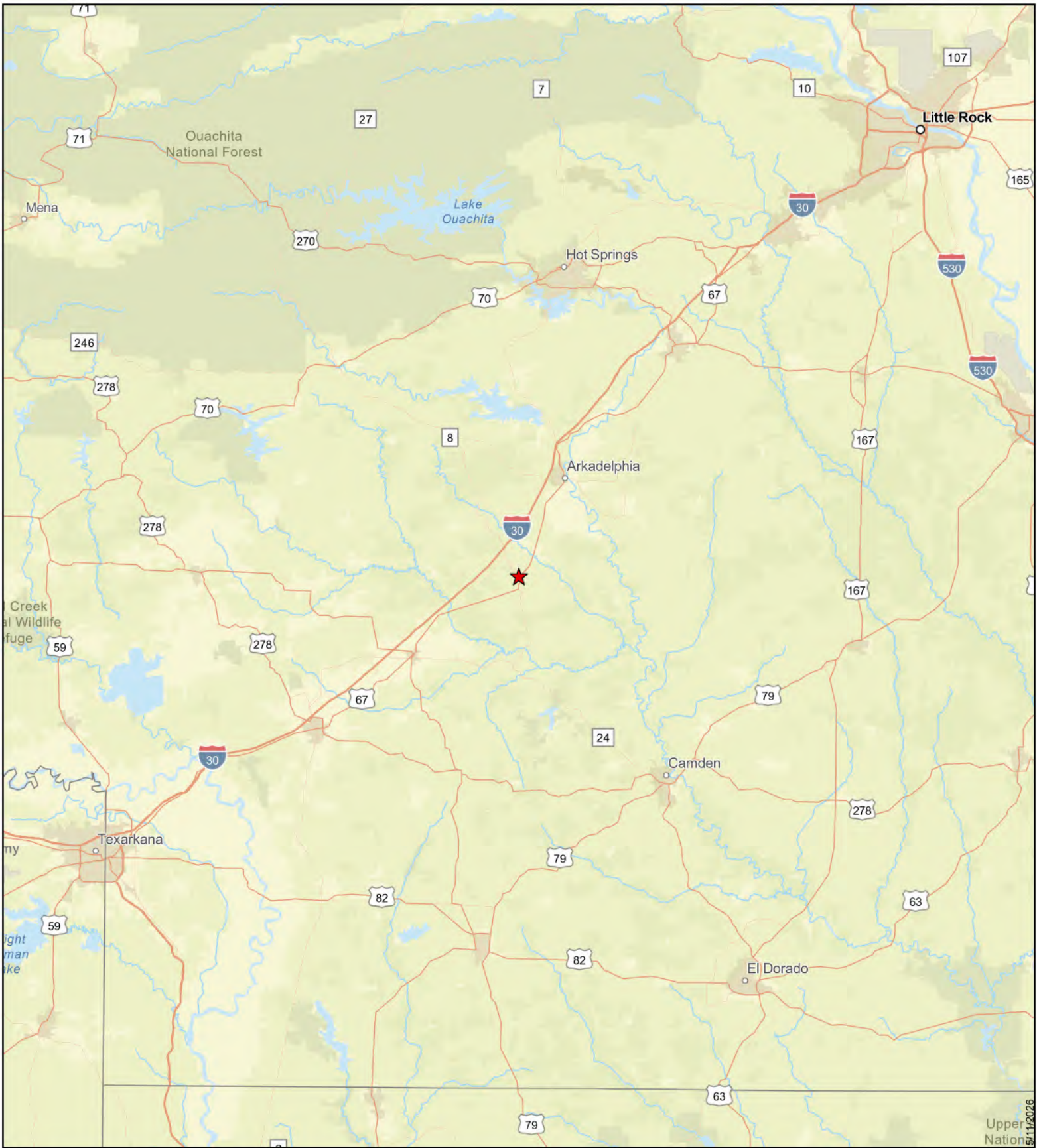
4.0 FEMA 100-YEAR FLOODPLAIN AND FLOODWAY ISSUES

The Federal Emergency Management Agency (FEMA) maps the majority of the project area as unshaded Zone X. Unshaded Zone X is a FEMA designation for areas of minimal flood hazard that are outside the 0.2 percent annual-chance flood. The extreme southeastern corner of the project area is mapped as Zone A. Zone A is a FEMA designation for a special flood hazard area without base flood elevations determined. This Zone A area is associated with a mapped offsite channel. Note that FEMA mapping does not appear to precisely correspond to the offsite mapped channel. Based on review of the USGS topographic map and available LiDAR, the portion of the FEMA Zone A that intersects the delineation project area is located northwest of, and does not overlap with, the location of the offsite channel. A FEMA FIRMette is provided in Attachment C.

5.0 SUMMARY AND CONCLUSIONS

- ECCI observed three wetland features, totaling approximately 1.09 acre within the project area.
- No potential other WOTUS, e.g., ponds, lakes, streams, rivers, etc., were observed within the project area.
- FEMA maps the majority of the project area outside the 0.2 percent annual-flood chance floodplain.

Figures



Gurdon Industrial Site

★ Project Area

30

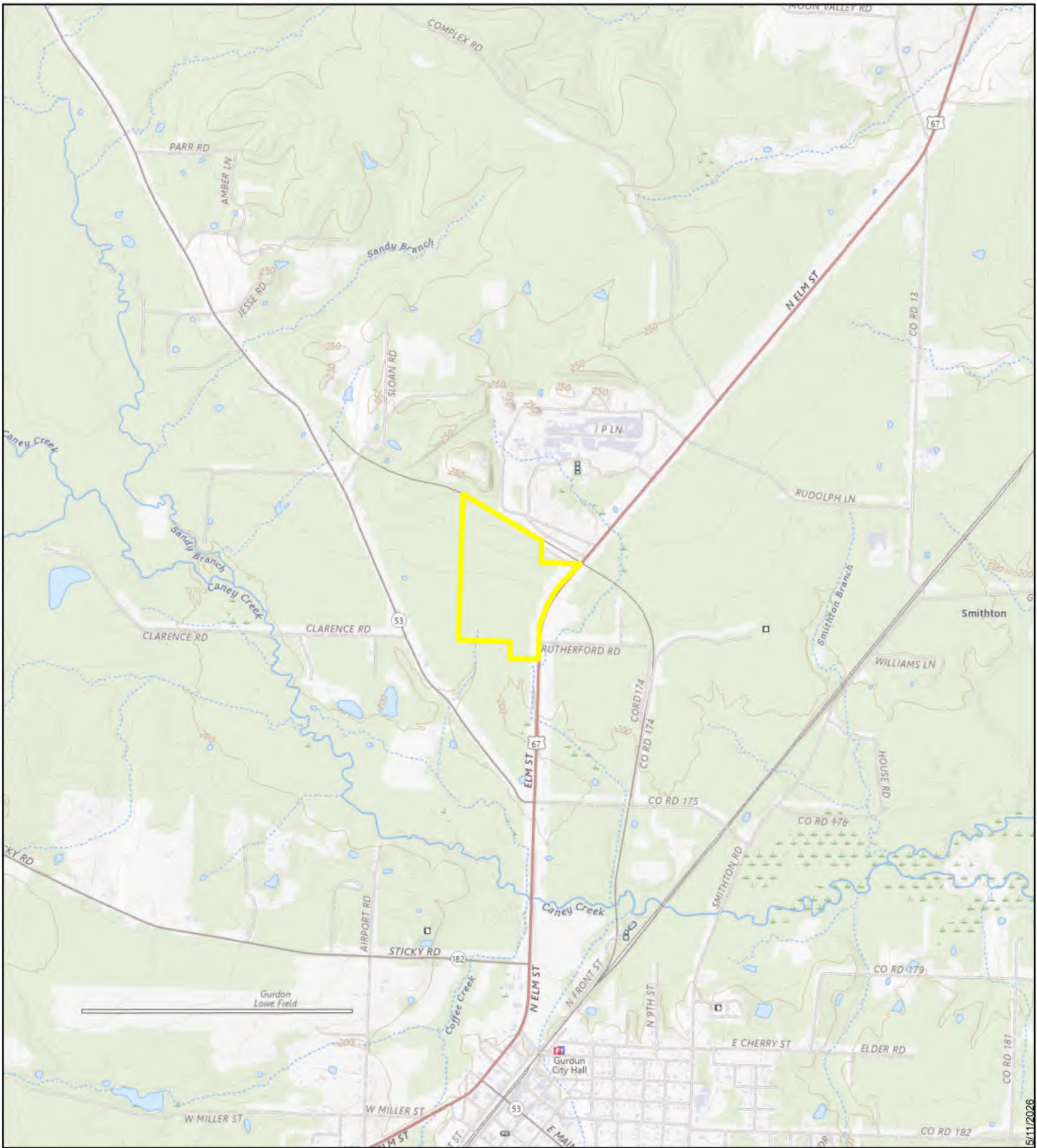
Miles



Background: Esri, DeLorme, HERE, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom

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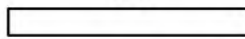
Figure 1. Map showing project vicinity overlaid on ESRI World Street Maps.



Gurdon Industrial Site



 Project Area

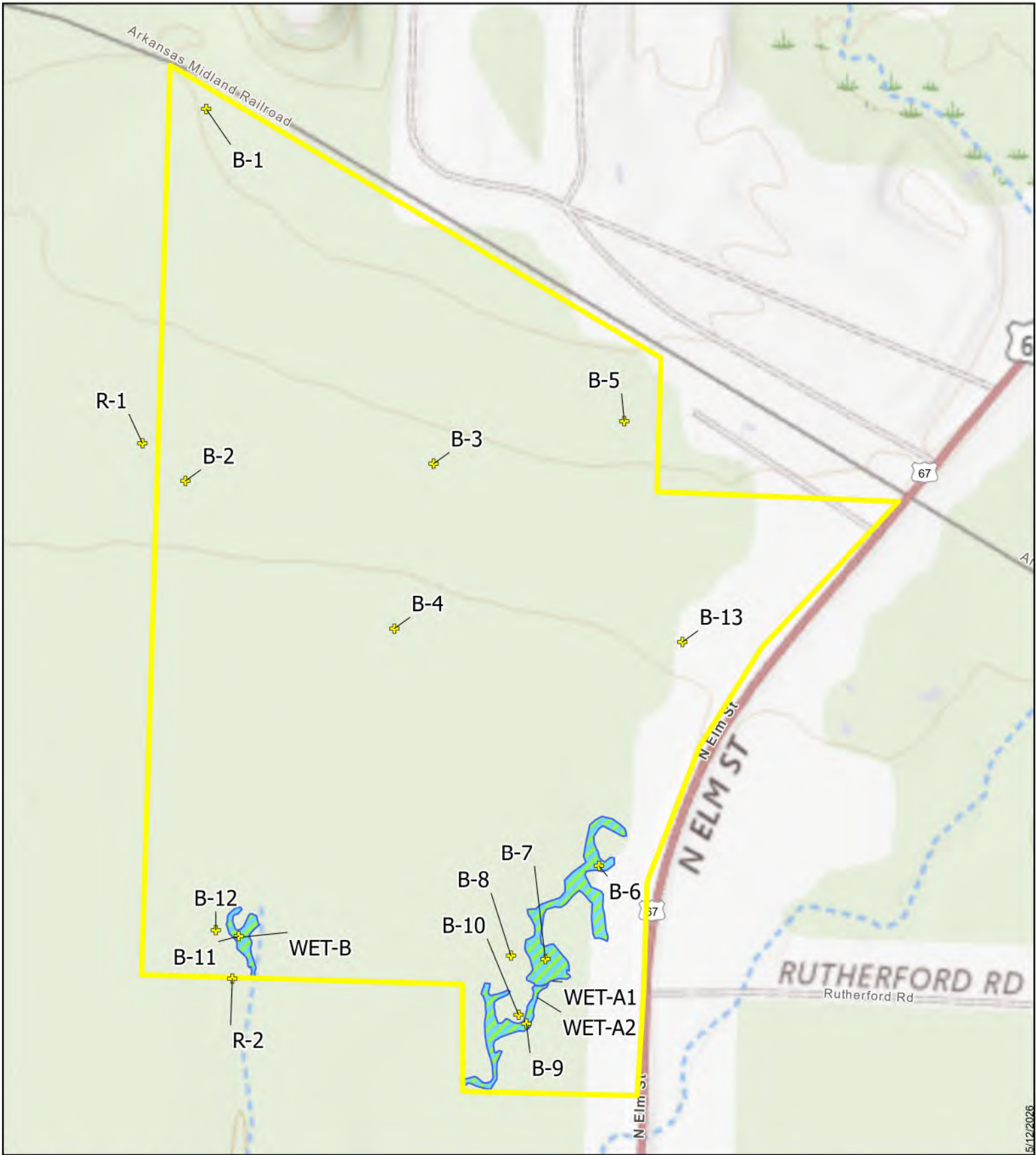
0.5
 Miles



C:\Users\GMike\Documents\ArcGIS\Projects\5213-3004\5213-3004.aprx

Background: USGS The National Map

Figure 2. Map showing project area overlaid on USGS TNM Topo Base Map.

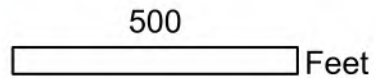


Gurdon Industrial Site



- Project Area
- Wetlands

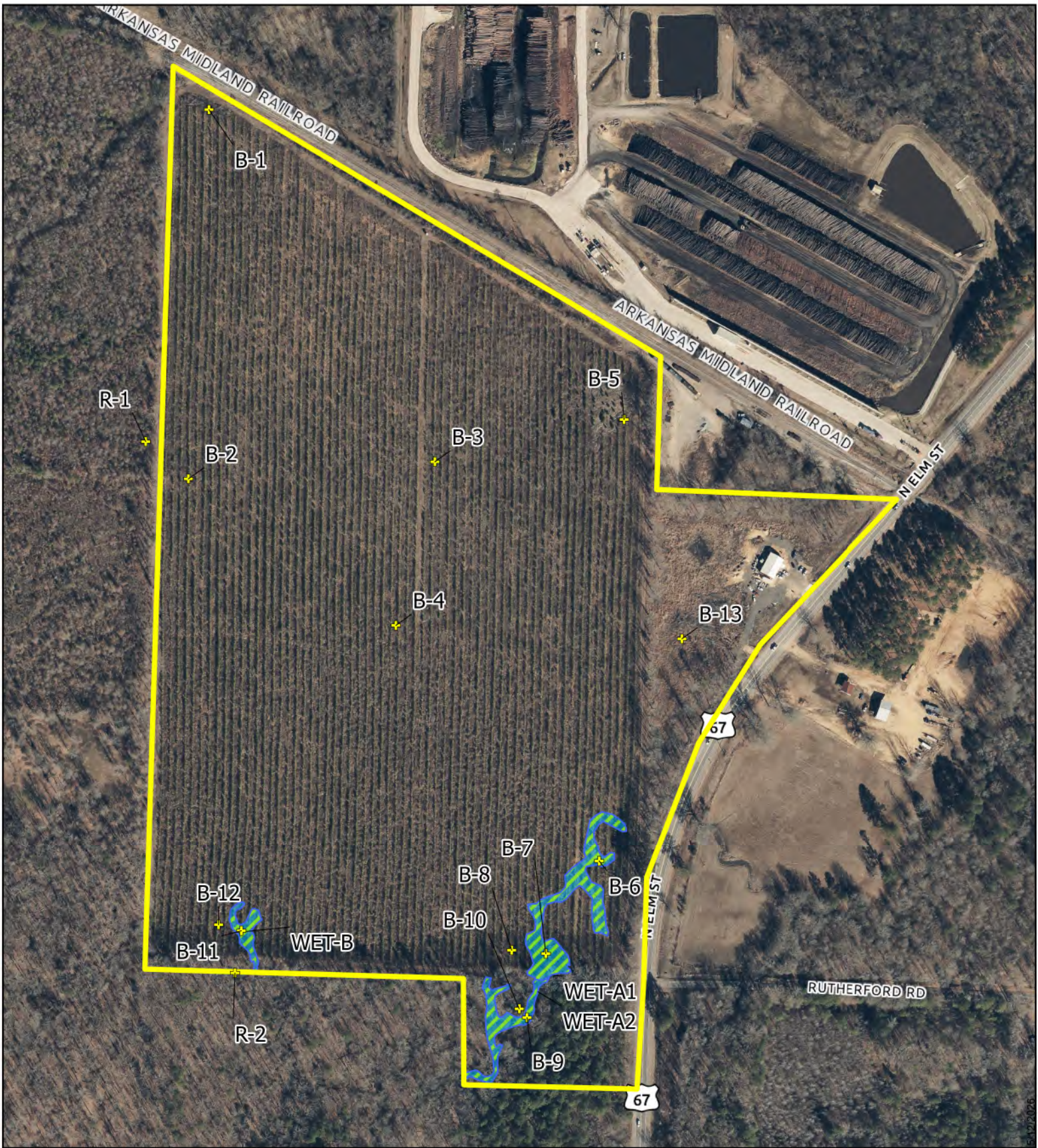
- + Sample Points



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Background: USGS The National Map

Figure 3. Map showing project details overlaid on USGS TNM Topo Base Map.



Gurdon Industrial Site



- Project Area
- Wetlands

- + Sample Points

500

Feet



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

Attachment A

Sampling Point Data Sheets

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: B-1
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 1
 Subregion (LRR or MLRA): P 135B Lat: 33.94712 Long: -93.15491 Datum: WGS 84
 Soil Map Unit Name: 31 - Kipling silt loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

| | |
|--|---|
| Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> | Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> |
| Remarks: <p style="font-size: 1.2em; margin-top: 10px;">Maintained field, formerly in silviculture.</p> | |

HYDROLOGY

| | |
|--|--|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) _____ <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe) | Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | |
| Remarks: | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-1

| | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|-------------------------------------|------------------|--|--|-------------------|--------------|-------------|----------|----------------|--------------|----------|----------------|-------------|-----------|-----------------|--------------|-----------|------------------|-------------|----------|----------------|----------------|---------------|----------------|
| Tree Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum (Plot size: <u>10 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Dichantherium oligosanthes</u> | <u>25</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | |
| 2. <u>Bromus japonicus</u> | <u>25</u> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <u>Carex sp.</u> | <u>10</u> | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. <u>Geranium carolinianum</u> | <u>5</u> | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. <u>Panicum capillare</u> | <u>5</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | |
| 6. <u>Krigia virginica</u> | <u>5</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | |
| 7. <u>Vulpia myuros</u> | <u>5</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | |
| 8. <u>Cyclosporum leptophyllum</u> | <u>5</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | |
| 9. <u>Gamochaeta pensylvanica</u> | <u>5</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | |
| 10. <u>Plantago virginica</u> | <u>3</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | |
| 11. <u>Triodanis perfoliata</u> | <u>2</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | |
| 12. <u>Valerianella radiata</u> | <u>2</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | |
| <u>97</u> = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>48.50</u> 20% of total cover: <u>19.40</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum (Plot size: <u>10 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Rubus trivialis</u> | <u>1</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| <u>1</u> = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>0.50</u> 20% of total cover: <u>0.20</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Dominance Test worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>1</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.00</u> (A/B)</p> <hr/> <p>Prevalence Index worksheet:</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;"></td> <td style="width:30%; text-align: center;">Total % Cover of:</td> <td style="width:30%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>12</u></td> <td style="text-align: center;">x 3 = <u>36</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>46</u></td> <td style="text-align: center;">x 4 = <u>184</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;"><u>58</u> (A)</td> <td style="text-align: center;"><u>220</u> (B)</td> </tr> </table> <p>Prevalence Index = B/A = <u>3.79</u></p> <hr/> <p>Hydrophytic Vegetation Indicators:</p> <p><input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation</p> <p><input type="checkbox"/> 2 - Dominance Test is >50%</p> <p><input type="checkbox"/> 3 - Prevalence Index is ≤3.0¹</p> <p><input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p><small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small></p> <hr/> <p>Definitions of Four Vegetation Strata:</p> <p>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</p> <p>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.</p> <p>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</p> <p>Woody vine – All woody vines greater than 3.28 ft in height.</p> <hr/> <p>Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/></p> | | | | | | Total % Cover of: | Multiply by: | OBL species | <u>0</u> | x 1 = <u>0</u> | FACW species | <u>0</u> | x 2 = <u>0</u> | FAC species | <u>12</u> | x 3 = <u>36</u> | FACU species | <u>46</u> | x 4 = <u>184</u> | UPL species | <u>0</u> | x 5 = <u>0</u> | Column Totals: | <u>58</u> (A) | <u>220</u> (B) |
| | Total % Cover of: | Multiply by: | | | | | | | | | | | | | | | | | | | | | | | |
| OBL species | <u>0</u> | x 1 = <u>0</u> | | | | | | | | | | | | | | | | | | | | | | | |
| FACW species | <u>0</u> | x 2 = <u>0</u> | | | | | | | | | | | | | | | | | | | | | | | |
| FAC species | <u>12</u> | x 3 = <u>36</u> | | | | | | | | | | | | | | | | | | | | | | | |
| FACU species | <u>46</u> | x 4 = <u>184</u> | | | | | | | | | | | | | | | | | | | | | | | |
| UPL species | <u>0</u> | x 5 = <u>0</u> | | | | | | | | | | | | | | | | | | | | | | | |
| Column Totals: | <u>58</u> (A) | <u>220</u> (B) | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: (If observed, list morphological adaptations below). | | | | | | | | | | | | | | | | | | | | | | | | | |

SOIL

Sampling Point: B-1

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|----------------|---------------|-----|----------------|----|-------------------|------------------|---------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 4 | 10YR 3/2 | 100 | | | | | Silt | |
| 4 - 8 | 10YR 4/6 | 100 | | | | | Silt | |
| 8 - 16 | 10YR 5/3 | 60 | 7.5YR 5/6 | 15 | C | M | Silt | |
| 8 - 16 | | | 10YR 6/2 | 25 | D | M | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: B-2
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 1
 Subregion (LRR or MLRA): P 135B Lat: 33.94441 Long: -93.15508 Datum: WGS 84
 Soil Map Unit Name: 20 - Eutaw silty clay loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

| | |
|--|---|
| Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> | Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> |
| Remarks: <p style="font-size: 1.2em; margin-top: 10px;">Maintained field, formerly in silviculture.</p> | |

HYDROLOGY

| | |
|--|--|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) _____ <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe) | Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | |
| Remarks: | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-2

| | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|-------------------------------------|------------------|--|-------------------|--|--------------|--|--|-------------|----------|-------|----------|--|--------------|-----------|-------|-----------|--|-------------|-----------|-------|------------|--|--------------|-----------|-------|------------|--|-------------|----------|-------|----------|--|----------------|----------------|--|----------------|--|
| Tree Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum (Plot size: <u>10 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Dichantheium oligosanthes</u> | <u>40</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <u>Agrostis hyemalis</u> | <u>25</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <u>Dichantheium scoparium</u> | <u>20</u> | | <u>FACW</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. <u>Geranium carolinianum</u> | <u>10</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. <u>Valerianella radiata</u> | <u>5</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. <u>Krigia virginica</u> | <u>3</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. <u>Cyclosporum leptophyllum</u> | <u>2</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. <u>Juncus tenuis</u> | <u>2</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. <u>Cirsium sp.</u> | <u>2</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. <u>Eupatorium serotinum</u> | <u>2</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. <u>Galium palustre</u> | <u>2</u> | | <u>OBL</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. <u>Ulmus alata</u> | <u>1</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>57.00</u> 20% of total cover: <u>22.80</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Rubus trivialis</u> | <u>5</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>2.50</u> 20% of total cover: <u>1.00</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Dominance Test worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>3</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)</p> <hr/> <p>Prevalence Index worksheet:</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;">Total % Cover of:</th> <th style="width:10%;"></th> <th style="width:10%;">Multiply by:</th> <th style="width:10%;"></th> <th style="width:10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td><u>2</u></td> <td>x 1 =</td> <td><u>2</u></td> <td></td> </tr> <tr> <td>FACW species</td> <td><u>20</u></td> <td>x 2 =</td> <td><u>40</u></td> <td></td> </tr> <tr> <td>FAC species</td> <td><u>36</u></td> <td>x 3 =</td> <td><u>108</u></td> <td></td> </tr> <tr> <td>FACU species</td> <td><u>49</u></td> <td>x 4 =</td> <td><u>196</u></td> <td></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> <td></td> </tr> <tr> <td>Column Totals:</td> <td><u>107</u> (A)</td> <td></td> <td><u>346</u> (B)</td> <td></td> </tr> </tbody> </table> <p>Prevalence Index = B/A = <u>3.23</u></p> <hr/> <p>Hydrophytic Vegetation Indicators:</p> <p><input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation</p> <p><input type="checkbox"/> 2 - Dominance Test is >50%</p> <p><input type="checkbox"/> 3 - Prevalence Index is ≤3.0¹</p> <p><input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p><small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small></p> <hr/> <p>Definitions of Four Vegetation Strata:</p> <p>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</p> <p>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.</p> <p>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</p> <p>Woody vine – All woody vines greater than 3.28 ft in height.</p> <hr/> <p>Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/></p> | | | | | Total % Cover of: | | Multiply by: | | | OBL species | <u>2</u> | x 1 = | <u>2</u> | | FACW species | <u>20</u> | x 2 = | <u>40</u> | | FAC species | <u>36</u> | x 3 = | <u>108</u> | | FACU species | <u>49</u> | x 4 = | <u>196</u> | | UPL species | <u>0</u> | x 5 = | <u>0</u> | | Column Totals: | <u>107</u> (A) | | <u>346</u> (B) | |
| Total % Cover of: | | Multiply by: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OBL species | <u>2</u> | x 1 = | <u>2</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACW species | <u>20</u> | x 2 = | <u>40</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FAC species | <u>36</u> | x 3 = | <u>108</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACU species | <u>49</u> | x 4 = | <u>196</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UPL species | <u>0</u> | x 5 = | <u>0</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Column Totals: | <u>107</u> (A) | | <u>346</u> (B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: (If observed, list morphological adaptations below). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SOIL

Sampling Point: B-2

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|----------------|---------------|-----|----------------|----|-------------------|------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 6 | 10YR 2/2 | 100 | | | | | Silty Clay | |
| 6 - 9 | 10YR 3/2 | 100 | | | | | Silt | |
| 9 - 12 | 10YR 5/3 | 80 | 7.5YR 4/6 | 20 | C | M | Silty Clay | |
| 12 - 18 | 10YR 6/1 | 80 | 7.5YR 4/6 | 20 | C | M | Silty Clay | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)
- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: B-3
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Furrow Local relief (concave, convex, none): Linear Slope (%): 1
 Subregion (LRR or MLRA): P 135B Lat: 33.94454 Long: -93.15292 Datum: WGS 84
 Soil Map Unit Name: 20 - Eutaw silty clay loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

| | |
|--|---|
| Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> | Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> |
| Remarks: <p style="font-size: 1.2em; margin-top: 10px;">Maintained field, formerly in silviculture.</p> | |

HYDROLOGY

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|---|--|---|---|--|---|--|--|---|--|---|---|---|--|--|--|--|--|---|--|--|--|--|--|--|---|--|--|---|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;"><input type="checkbox"/> Surface Water (A1)</td> <td style="width:50%; border: none;"><input type="checkbox"/> Aquatic Fauna (B13)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> High Water Table (A2)</td> <td style="border: none;"><input type="checkbox"/> Marl Deposits (B15) (LRR U)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Saturation (A3)</td> <td style="border: none;"><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Water Marks (B1)</td> <td style="border: none;"><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Sediment Deposits (B2)</td> <td style="border: none;"><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Drift Deposits (B3)</td> <td style="border: none;"><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Algal Mat or Crust (B4)</td> <td style="border: none;"><input type="checkbox"/> Thin Muck Surface (C7)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Iron Deposits (B5)</td> <td style="border: none;"><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td></td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Water-Stained Leaves (B9)</td> <td></td> </tr> </table> | <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Aquatic Fauna (B13) | <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Marl Deposits (B15) (LRR U) | <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | <input type="checkbox"/> Water-Stained Leaves (B9) | | Secondary Indicators (minimum of two required) <table style="width:100%; border: none;"> <tr><td style="border: none;"><input type="checkbox"/> Surface Soil Cracks (B6)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Drainage Patterns (B10)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Moss Trim Lines (B16)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Dry-Season Water Table (C2)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Crayfish Burrows (C8)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Geomorphic Position (D2)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Shallow Aquitard (D3)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> FAC-Neutral Test (D5)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)</td></tr> </table> | <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Drainage Patterns (B10) | <input type="checkbox"/> Moss Trim Lines (B16) | <input type="checkbox"/> Dry-Season Water Table (C2) | <input type="checkbox"/> Crayfish Burrows (C8) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) | <input type="checkbox"/> Geomorphic Position (D2) | <input type="checkbox"/> Shallow Aquitard (D3) | <input type="checkbox"/> FAC-Neutral Test (D5) | <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Aquatic Fauna (B13) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Marl Deposits (B15) (LRR U) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Other (Explain in Remarks) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Water-Stained Leaves (B9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Surface Soil Cracks (B6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Drainage Patterns (B10) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Moss Trim Lines (B16) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Dry-Season Water Table (C2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Crayfish Burrows (C8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Geomorphic Position (D2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Shallow Aquitard (D3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> FAC-Neutral Test (D5) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ | Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-3

| | Absolute % Cover | Dominant Species? | Indicator Status | |
|---|----------------------------------|-------------------------------------|----------------------------------|--|
| Tree Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. _____ | _____ | _____ | _____ | |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| 6. _____ | _____ | _____ | _____ | |
| 7. _____ | _____ | _____ | _____ | |
| 8. _____ | _____ | _____ | _____ | |
| | _____ = Total Cover | | | |
| | 50% of total cover: _____ | | 20% of total cover: _____ | |
| Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. _____ | _____ | _____ | _____ | |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| 6. _____ | _____ | _____ | _____ | |
| 7. _____ | _____ | _____ | _____ | |
| 8. _____ | _____ | _____ | _____ | |
| | _____ = Total Cover | | | |
| | 50% of total cover: _____ | | 20% of total cover: _____ | |
| Herb Stratum (Plot size: <u>10 ft r</u>) | | | | |
| 1. <u>Agrostis hyemalis</u> | <u>20</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | |
| 2. <u>Dichantherium oligosanthes</u> | <u>20</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | |
| 3. <u>Geranium carolinianum</u> | <u>15</u> | <input checked="" type="checkbox"/> | <u>_____</u> | |
| 4. <u>Valerianella radiata</u> | <u>10</u> | _____ | <u>FAC</u> | |
| 5. <u>Nemophila phacelioides</u> | <u>10</u> | _____ | _____ | |
| 6. <u>Solidago altissima</u> | <u>5</u> | _____ | <u>FACU</u> | |
| 7. <u>Ambrosia artemisiifolia</u> | <u>5</u> | _____ | <u>FACU</u> | |
| 8. <u>Dichantherium scoparium</u> | <u>5</u> | _____ | <u>FACW</u> | |
| 9. <u>Cyclosporum leptophyllum</u> | <u>3</u> | _____ | <u>FAC</u> | |
| 10. <u>Lespedeza virginica</u> | <u>2</u> | _____ | _____ | |
| 11. <u>Smilax bona-nox</u> | <u>2</u> | _____ | <u>FAC</u> | |
| 12. _____ | _____ | _____ | _____ | |
| | <u>97</u> = Total Cover | | | |
| | 50% of total cover: <u>48.50</u> | | 20% of total cover: <u>19.40</u> | |
| Woody Vine Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. <u>Rubus trivialis</u> | <u>3</u> | _____ | <u>FACU</u> | |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| | <u>3</u> = Total Cover | | | |
| | 50% of total cover: <u>1.50</u> | | 20% of total cover: <u>0.60</u> | |
| Remarks: (If observed, list morphological adaptations below). | | | | |

Dominance Test worksheet:

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

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

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.00 (A/B)

Prevalence Index worksheet:

| | |
|------------------------------|------------------|
| Total % Cover of: | Multiply by: |
| OBL species <u>0</u> | x 1 = <u>0</u> |
| FACW species <u>5</u> | x 2 = <u>10</u> |
| FAC species <u>35</u> | x 3 = <u>105</u> |
| FACU species <u>33</u> | x 4 = <u>132</u> |
| UPL species <u>0</u> | x 5 = <u>0</u> |
| Column Totals: <u>73</u> (A) | <u>247</u> (B) |

Prevalence Index = B/A = 3.38

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Four Vegetation Strata:

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, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No

SOIL

Sampling Point: B-3

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|-------------------|---------------|----|----------------|----|-------------------|------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 6 | 10YR 3/2 | 90 | 10YR 5/2 | 10 | D | M | Silty Clay | |
| 6 - 18 | 10YR 5/3 | 85 | 10YR 2/1 | 5 | D | M | Silty Clay | |
| 6 - 18 | | | 10YR 7/1 | 5 | D | M | | |
| 6 - 18 | | | 10YR 3/6 | 5 | C | M | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)
- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: B-4
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 1
 Subregion (LRR or MLRA): P 135B Lat: 33.94334 Long: -93.15326 Datum: WGS 84
 Soil Map Unit Name: 20 - Eutaw silty clay loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

| | |
|--|---|
| Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> | Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> |
| Remarks: <p style="font-size: 1.2em; margin-top: 10px;">Maintained field, formerly in silviculture.</p> | |

HYDROLOGY

| | |
|--|--|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) _____ <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ | Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | |
| Remarks: | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-4

| | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | |
|---|------------------|-------------------------------------|------------------|--|-------------------|--------------|----------------------|----------------|------------------------|-----------------|-----------------------|-----------------|------------------------|------------------|----------------------|----------------|------------------------------|----------------|
| Tree Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | _____ | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.33</u> (A/B) | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 6. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 7. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 8. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: right;">Total % Cover of:</td> <td style="width:50%; text-align: left;">Multiply by:</td> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>27</u></td> <td>x 3 = <u>81</u></td> </tr> <tr> <td>FACU species <u>44</u></td> <td>x 4 = <u>176</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>86</u> (A)</td> <td><u>282</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.27</u> | Total % Cover of: | Multiply by: | OBL species <u>5</u> | x 1 = <u>5</u> | FACW species <u>10</u> | x 2 = <u>20</u> | FAC species <u>27</u> | x 3 = <u>81</u> | FACU species <u>44</u> | x 4 = <u>176</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>86</u> (A) | <u>282</u> (B) |
| Total % Cover of: | Multiply by: | | | | | | | | | | | | | | | | | |
| OBL species <u>5</u> | x 1 = <u>5</u> | | | | | | | | | | | | | | | | | |
| FACW species <u>10</u> | x 2 = <u>20</u> | | | | | | | | | | | | | | | | | |
| FAC species <u>27</u> | x 3 = <u>81</u> | | | | | | | | | | | | | | | | | |
| FACU species <u>44</u> | x 4 = <u>176</u> | | | | | | | | | | | | | | | | | |
| UPL species <u>0</u> | x 5 = <u>0</u> | | | | | | | | | | | | | | | | | |
| Column Totals: <u>86</u> (A) | <u>282</u> (B) | | | | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 6. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 7. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 8. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | |
| Herb Stratum (Plot size: <u>10 ft r</u>) | | | | | | | | | | | | | | | | | | |
| 1. <u>Agrostis hyemalis</u> | <u>25</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | | | | | | | | | | | | | | | |
| 2. <u>Dichantherium oligosanthes</u> | <u>15</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | | | | | | | | | | | | | | | |
| 3. <u>Geranium carolinianum</u> | <u>15</u> | <input checked="" type="checkbox"/> | _____ | | | | | | | | | | | | | | | |
| 4. <u>Galium aparine</u> | <u>15</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | | | | | | | | | | | | | | | |
| 5. <u>Dichantherium scoparium</u> | <u>10</u> | _____ | <u>FACW</u> | | | | | | | | | | | | | | | |
| 6. <u>Persicaria hydropiperoides</u> | <u>5</u> | _____ | <u>OBL</u> | | | | | | | | | | | | | | | |
| 7. <u>Gamochaeta pensylvanica</u> | <u>5</u> | _____ | <u>FACU</u> | | | | | | | | | | | | | | | |
| 8. <u>Ambrosia artemisiifolia</u> | <u>3</u> | _____ | <u>FACU</u> | | | | | | | | | | | | | | | |
| 9. <u>Triodanis perfoliata</u> | <u>2</u> | _____ | <u>FACU</u> | | | | | | | | | | | | | | | |
| 10. <u>Eupatorium serotinum</u> | <u>2</u> | _____ | <u>FAC</u> | | | | | | | | | | | | | | | |
| 11. <u>Packera tomentosa</u> | <u>2</u> | _____ | <u>FACU</u> | | | | | | | | | | | | | | | |
| 12. <u>Rubus trivialis</u> | <u>2</u> | _____ | <u>FACU</u> | | | | | | | | | | | | | | | |
| <u>101</u> = Total Cover | | | | Definitions of Four Vegetation Strata: 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, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. | | | | | | | | | | | | | | |
| 50% of total cover: <u>50.50</u> 20% of total cover: <u>20.20</u> | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | <u>FACU</u> | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | |
| Remarks: (If observed, list morphological adaptations below). | | | | | | | | | | | | | | | | | | |
| | | | | Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |

SOIL

Sampling Point: B-4

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|-------------------|---------------|-----|----------------|---|-------------------|------------------|------------|----------------------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 3 | 10YR 2/1 | 100 | | | | | Silt | |
| 3 - 18 | 10YR 4/2 | 95 | 10YR 4/6 | 5 | C | M | Silty Clay | |
| - | | | | | | | | 5% black concretions |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: B-5
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Undulating Slope (%): 0-3
 Subregion (LRR or MLRA): P 135B Lat: 33.94485 Long: -93.15125 Datum: WGS 84
 Soil Map Unit Name: 31 - Kipling silt loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

| | |
|--|---|
| Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> | Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> |
| Remarks: <p style="font-size: 1.2em; margin-top: 10px;">Maintained field, formerly in silviculture.</p> | |

HYDROLOGY

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|---|--|---|---|--|---|--|--|---|--|---|---|---|--|--|--|--|--|---|--|--|--|--|--|--|---|--|--|---|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;"><input type="checkbox"/> Surface Water (A1)</td> <td style="width:50%; border: none;"><input type="checkbox"/> Aquatic Fauna (B13)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> High Water Table (A2)</td> <td style="border: none;"><input type="checkbox"/> Marl Deposits (B15) (LRR U)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Saturation (A3)</td> <td style="border: none;"><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Water Marks (B1)</td> <td style="border: none;"><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Sediment Deposits (B2)</td> <td style="border: none;"><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Drift Deposits (B3)</td> <td style="border: none;"><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Algal Mat or Crust (B4)</td> <td style="border: none;"><input type="checkbox"/> Thin Muck Surface (C7)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Iron Deposits (B5)</td> <td style="border: none;"><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td></td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Water-Stained Leaves (B9)</td> <td></td> </tr> </table> | <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Aquatic Fauna (B13) | <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Marl Deposits (B15) (LRR U) | <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | <input type="checkbox"/> Water-Stained Leaves (B9) | | Secondary Indicators (minimum of two required) <table style="width:100%; border: none;"> <tr><td><input type="checkbox"/> Surface Soil Cracks (B6)</td></tr> <tr><td><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td></tr> <tr><td><input type="checkbox"/> Drainage Patterns (B10)</td></tr> <tr><td><input type="checkbox"/> Moss Trim Lines (B16)</td></tr> <tr><td><input type="checkbox"/> Dry-Season Water Table (C2)</td></tr> <tr><td><input type="checkbox"/> Crayfish Burrows (C8)</td></tr> <tr><td><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td></tr> <tr><td><input type="checkbox"/> Geomorphic Position (D2)</td></tr> <tr><td><input type="checkbox"/> Shallow Aquitard (D3)</td></tr> <tr><td><input type="checkbox"/> FAC-Neutral Test (D5)</td></tr> <tr><td><input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)</td></tr> </table> | <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Drainage Patterns (B10) | <input type="checkbox"/> Moss Trim Lines (B16) | <input type="checkbox"/> Dry-Season Water Table (C2) | <input type="checkbox"/> Crayfish Burrows (C8) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) | <input type="checkbox"/> Geomorphic Position (D2) | <input type="checkbox"/> Shallow Aquitard (D3) | <input type="checkbox"/> FAC-Neutral Test (D5) | <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Aquatic Fauna (B13) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Marl Deposits (B15) (LRR U) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Other (Explain in Remarks) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Water-Stained Leaves (B9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Surface Soil Cracks (B6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Drainage Patterns (B10) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Moss Trim Lines (B16) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Dry-Season Water Table (C2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Crayfish Burrows (C8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Geomorphic Position (D2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Shallow Aquitard (D3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> FAC-Neutral Test (D5) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ | Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-5

| | Absolute % Cover | Dominant Species? | Indicator Status | |
|---|------------------|-------------------------------------|------------------|--|
| Tree Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. _____ | _____ | _____ | _____ | |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| 6. _____ | _____ | _____ | _____ | |
| 7. _____ | _____ | _____ | _____ | |
| 8. _____ | _____ | _____ | _____ | |
| _____ = Total Cover | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | |
| Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. _____ | _____ | _____ | _____ | |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| 6. _____ | _____ | _____ | _____ | |
| 7. _____ | _____ | _____ | _____ | |
| 8. _____ | _____ | _____ | _____ | |
| _____ = Total Cover | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | |
| Herb Stratum (Plot size: <u>10 ft r</u>) | | | | |
| 1. <u>Dichantherium oligosanthes</u> | <u>20</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | |
| 2. <u>Dichantherium scoparium</u> | <u>15</u> | <input checked="" type="checkbox"/> | <u>FACW</u> | |
| 3. <u>Bromus japonicus</u> | <u>10</u> | <input checked="" type="checkbox"/> | | |
| 4. <u>Geranium carolinianum</u> | <u>10</u> | <input checked="" type="checkbox"/> | | |
| 5. <u>Valerianella radiata</u> | <u>10</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | |
| 6. <u>Nemophila phacelioides</u> | <u>10</u> | <input checked="" type="checkbox"/> | | |
| 7. <u>Ambrosia artemisiifolia</u> | <u>5</u> | | <u>FACU</u> | |
| 8. <u>Vulpia myuros</u> | <u>5</u> | | <u>FACU</u> | |
| 9. <u>Agrostis hyemalis</u> | <u>5</u> | | <u>FAC</u> | |
| 10. <u>Lolium perenne</u> | <u>3</u> | | <u>FACU</u> | |
| 11. <u>Cirsium sp.</u> | <u>2</u> | | | |
| 12. <u>Krigia sp.</u> | <u>2</u> | | <u>FAC</u> | |
| <u>97</u> = Total Cover | | | | |
| 50% of total cover: <u>48.50</u> 20% of total cover: <u>19.40</u> | | | | |
| Woody Vine Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. <u>Smilax bona-nox</u> | <u>1</u> | | <u>FAC</u> | |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| <u>1</u> = Total Cover | | | | |
| 50% of total cover: <u>0.50</u> 20% of total cover: <u>0.20</u> | | | | |
| Remarks: (If observed, list morphological adaptations below). | | | | |

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.66 (A/B)

Prevalence Index worksheet:

| Total % Cover of: | | Multiply by: | | |
|-------------------|---------------|--------------|----------------|--|
| OBL species | <u>0</u> | x 1 = | <u>0</u> | |
| FACW species | <u>15</u> | x 2 = | <u>30</u> | |
| FAC species | <u>18</u> | x 3 = | <u>54</u> | |
| FACU species | <u>33</u> | x 4 = | <u>132</u> | |
| UPL species | <u>0</u> | x 5 = | <u>0</u> | |
| Column Totals: | <u>66</u> (A) | | <u>216</u> (B) | |

Prevalence Index = B/A = 3.27

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Four Vegetation Strata:

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, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

SOIL

Sampling Point: B-5

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|----------------|---------------|----|----------------|----|-------------------|------------------|---------|----------------------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 10 | 10YR 3/3 | 95 | 10YR 2/1 | 5 | D | M | Silt | |
| 10 - 16 | 10YR 4/3 | 90 | 10YR 2/1 | 10 | | M | Silt | |
| 16 - 18 | 10YR 7/2 | 90 | 10YR 4/6 | 5 | C | M | | 5% black concretions |
| 16 - 18 | | | 10YR 2/2 | 5 | C | M | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)
- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: B-6
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave Slope (%): 1
 Subregion (LRR or MLRA): P 135B Lat: 33.94161 Long: -93.15147 Datum: WGS 84
 Soil Map Unit Name: 20 - Eutaw silty clay loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

| | |
|--|---|
| Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____ | Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ |
| Remarks: Maintained field, formerly in silviculture. | |

HYDROLOGY

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|--|--|--|---|---|--|---|--|--|---|--|---|---|---|--|--|--|--|--|---|--|---|--|--|---|---|---|--|---|--|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <table style="width: 100%; border: none;"> <tr> <td><input checked="" type="checkbox"/> Surface Water (A1)</td> <td><input checked="" type="checkbox"/> Aquatic Fauna (B13)</td> </tr> <tr> <td><input type="checkbox"/> High Water Table (A2)</td> <td><input type="checkbox"/> Marl Deposits (B15) (LRR U)</td> </tr> <tr> <td><input type="checkbox"/> Saturation (A3)</td> <td><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td><input type="checkbox"/> Water Marks (B1)</td> <td><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</td> </tr> <tr> <td><input type="checkbox"/> Sediment Deposits (B2)</td> <td><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td><input type="checkbox"/> Drift Deposits (B3)</td> <td><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td><input type="checkbox"/> Algal Mat or Crust (B4)</td> <td><input type="checkbox"/> Thin Muck Surface (C7)</td> </tr> <tr> <td><input type="checkbox"/> Iron Deposits (B5)</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> <tr> <td><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Water-Stained Leaves (B9)</td> <td></td> </tr> </table> | <input checked="" type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Aquatic Fauna (B13) | <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Marl Deposits (B15) (LRR U) | <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | <input type="checkbox"/> Water-Stained Leaves (B9) | | Secondary Indicators (minimum of two required) <table style="width: 100%; border: none;"> <tr><td><input type="checkbox"/> Surface Soil Cracks (B6)</td></tr> <tr><td><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td></tr> <tr><td><input checked="" type="checkbox"/> Drainage Patterns (B10)</td></tr> <tr><td><input type="checkbox"/> Moss Trim Lines (B16)</td></tr> <tr><td><input type="checkbox"/> Dry-Season Water Table (C2)</td></tr> <tr><td><input checked="" type="checkbox"/> Crayfish Burrows (C8)</td></tr> <tr><td><input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td></tr> <tr><td><input type="checkbox"/> Geomorphic Position (D2)</td></tr> <tr><td><input type="checkbox"/> Shallow Aquitard (D3)</td></tr> <tr><td><input checked="" type="checkbox"/> FAC-Neutral Test (D5)</td></tr> <tr><td><input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)</td></tr> </table> | <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input checked="" type="checkbox"/> Drainage Patterns (B10) | <input type="checkbox"/> Moss Trim Lines (B16) | <input type="checkbox"/> Dry-Season Water Table (C2) | <input checked="" type="checkbox"/> Crayfish Burrows (C8) | <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) | <input type="checkbox"/> Geomorphic Position (D2) | <input type="checkbox"/> Shallow Aquitard (D3) | <input checked="" type="checkbox"/> FAC-Neutral Test (D5) | <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| <input checked="" type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Aquatic Fauna (B13) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Marl Deposits (B15) (LRR U) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Other (Explain in Remarks) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Water-Stained Leaves (B9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Surface Soil Cracks (B6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Moss Trim Lines (B16) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Dry-Season Water Table (C2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Crayfish Burrows (C8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Geomorphic Position (D2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Shallow Aquitard (D3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> FAC-Neutral Test (D5) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>6</u> Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ | Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-6

| | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | |
|---|------------------|-------------------------------------|------------------|---|-------------------|--------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|----------------------|----------------|------------------------------|---------------|--------------------------------------|--|
| Tree Stratum (Plot size: <u>30 ft r</u>) | | | | Dominance Test worksheet: | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | _____ | Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) | | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | Total Number of Dominant Species Across All Strata: <u>5</u> (B) | | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.00</u> (A/B) | | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;">Total % Cover of:</td> <td style="width:50%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>20</u></td> <td>x 1 = <u>20</u></td> </tr> <tr> <td>FACW species <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species <u>11</u></td> <td>x 3 = <u>33</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>41</u> (A)</td> <td><u>83</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.02</u></td> </tr> </table> | Total % Cover of: | Multiply by: | OBL species <u>20</u> | x 1 = <u>20</u> | FACW species <u>5</u> | x 2 = <u>10</u> | FAC species <u>11</u> | x 3 = <u>33</u> | FACU species <u>5</u> | x 4 = <u>20</u> | UPL species <u>0</u> | x 5 = <u>0</u> | Column Totals: <u>41</u> (A) | <u>83</u> (B) | Prevalence Index = B/A = <u>2.02</u> | |
| Total % Cover of: | Multiply by: | | | | | | | | | | | | | | | | | | | |
| OBL species <u>20</u> | x 1 = <u>20</u> | | | | | | | | | | | | | | | | | | | |
| FACW species <u>5</u> | x 2 = <u>10</u> | | | | | | | | | | | | | | | | | | | |
| FAC species <u>11</u> | x 3 = <u>33</u> | | | | | | | | | | | | | | | | | | | |
| FACU species <u>5</u> | x 4 = <u>20</u> | | | | | | | | | | | | | | | | | | | |
| UPL species <u>0</u> | x 5 = <u>0</u> | | | | | | | | | | | | | | | | | | | |
| Column Totals: <u>41</u> (A) | <u>83</u> (B) | | | | | | | | | | | | | | | | | | | |
| Prevalence Index = B/A = <u>2.02</u> | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 6. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 7. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 8. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 6. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 7. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 8. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum (Plot size: <u>5 ft r</u>) | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Ludwigia palustris</u> | <u>15</u> | <input checked="" type="checkbox"/> | <u>OBL</u> | Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | | | | | | | | | | | | | | | |
| 2. <u>Eupatorium capillifolium</u> | <u>5</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | | | | | | | | | | | | | | | | | |
| 3. <u>Coleataenia anceps</u> | <u>5</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | | | | | | | | | | | | | | | | | |
| 4. <u>Cyperus rotundus</u> | <u>5</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | | | | | | | | | | | | | | | | | |
| 5. <u>Cyperus pseudovegetus</u> | <u>5</u> | <input checked="" type="checkbox"/> | <u>FACW</u> | | | | | | | | | | | | | | | | | |
| 6. <u>Persicaria hydropiperoides</u> | <u>3</u> | <input type="checkbox"/> | <u>OBL</u> | | | | | | | | | | | | | | | | | |
| 7. <u>Carex frankii</u> | <u>1</u> | <input type="checkbox"/> | <u>OBL</u> | | | | | | | | | | | | | | | | | |
| 8. <u>Carex frankii</u> | <u>1</u> | <input type="checkbox"/> | <u>OBL</u> | | | | | | | | | | | | | | | | | |
| 9. <u>Elymus virginicus</u> | <u>1</u> | <input type="checkbox"/> | <u>FAC</u> | | | | | | | | | | | | | | | | | |
| 10. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 11. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 12. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>20.50</u> 20% of total cover: <u>8.20</u> | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | | | |
| Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ | | | | | | | | | | | | | | | | | | | | |
| Remarks: (If observed, list morphological adaptations below). | | | | | | | | | | | | | | | | | | | | |

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|-------------------|---------------|---|----------------|---|-------------------|------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| - | | | | | | | Silt | |
| - | | | | | | | Silty Clay | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

No soil pit dug due to inundation, soils assumed hydric.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: B-7
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 1
 Subregion (LRR or MLRA): P 135B Lat: 33.94094 Long: -93.15193 Datum: WGS 84
 Soil Map Unit Name: 20 - Eutaw silty clay loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

| | |
|--|---|
| Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____ | Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ |
| Remarks: <p style="font-size: 1.2em; margin-top: 10px;">Maintained field, formerly in silviculture.</p> | |

HYDROLOGY

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|--|--|---|---|--|---|--|--|---|--|---|---|---|--|--|--|--|--|---|--|---|--|--|--|---|---|--|---|--|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <table style="width:100%; border: none;"> <tr> <td><input checked="" type="checkbox"/> Surface Water (A1)</td> <td><input checked="" type="checkbox"/> Aquatic Fauna (B13)</td> </tr> <tr> <td><input type="checkbox"/> High Water Table (A2)</td> <td><input type="checkbox"/> Marl Deposits (B15) (LRR U)</td> </tr> <tr> <td><input type="checkbox"/> Saturation (A3)</td> <td><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td><input type="checkbox"/> Water Marks (B1)</td> <td><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</td> </tr> <tr> <td><input type="checkbox"/> Sediment Deposits (B2)</td> <td><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td><input type="checkbox"/> Drift Deposits (B3)</td> <td><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td><input type="checkbox"/> Algal Mat or Crust (B4)</td> <td><input type="checkbox"/> Thin Muck Surface (C7)</td> </tr> <tr> <td><input type="checkbox"/> Iron Deposits (B5)</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> <tr> <td><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Water-Stained Leaves (B9)</td> <td></td> </tr> </table> | <input checked="" type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Aquatic Fauna (B13) | <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Marl Deposits (B15) (LRR U) | <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | <input type="checkbox"/> Water-Stained Leaves (B9) | | Secondary Indicators (minimum of two required) <table style="width:100%; border: none;"> <tr><td><input type="checkbox"/> Surface Soil Cracks (B6)</td></tr> <tr><td><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td></tr> <tr><td><input checked="" type="checkbox"/> Drainage Patterns (B10)</td></tr> <tr><td><input type="checkbox"/> Moss Trim Lines (B16)</td></tr> <tr><td><input type="checkbox"/> Dry-Season Water Table (C2)</td></tr> <tr><td><input type="checkbox"/> Crayfish Burrows (C8)</td></tr> <tr><td><input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td></tr> <tr><td><input type="checkbox"/> Geomorphic Position (D2)</td></tr> <tr><td><input type="checkbox"/> Shallow Aquitard (D3)</td></tr> <tr><td><input checked="" type="checkbox"/> FAC-Neutral Test (D5)</td></tr> <tr><td><input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)</td></tr> </table> | <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input checked="" type="checkbox"/> Drainage Patterns (B10) | <input type="checkbox"/> Moss Trim Lines (B16) | <input type="checkbox"/> Dry-Season Water Table (C2) | <input type="checkbox"/> Crayfish Burrows (C8) | <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) | <input type="checkbox"/> Geomorphic Position (D2) | <input type="checkbox"/> Shallow Aquitard (D3) | <input checked="" type="checkbox"/> FAC-Neutral Test (D5) | <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| <input checked="" type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Aquatic Fauna (B13) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Marl Deposits (B15) (LRR U) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Other (Explain in Remarks) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Water-Stained Leaves (B9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Surface Soil Cracks (B6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Moss Trim Lines (B16) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Dry-Season Water Table (C2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Crayfish Burrows (C8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Geomorphic Position (D2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Shallow Aquitard (D3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> FAC-Neutral Test (D5) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>10</u> Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ | Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-7

| | Absolute % Cover | Dominant Species? | Indicator Status | |
|---|-----------------------------------|-------------------|-------------------------------------|----------------------------------|
| Tree Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| _____ = Total Cover | | | | |
| 50% of total cover: _____ | | | | 20% of total cover: _____ |
| Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| _____ = Total Cover | | | | |
| 50% of total cover: _____ | | | | 20% of total cover: _____ |
| Herb Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. | <u>Ludwigia palustris</u> | <u>70</u> | <input checked="" type="checkbox"/> | <u>OBL</u> |
| 2. | <u>Juncus validus</u> | <u>5</u> | | <u>FACW</u> |
| 3. | <u>Persicaria punctata</u> | <u>5</u> | | <u>OBL</u> |
| 4. | <u>Eupatorium capillifolium</u> | <u>3</u> | | <u>FACU</u> |
| 5. | <u>Juncus effusus</u> | <u>3</u> | | <u>OBL</u> |
| 6. | <u>Cyperus strigosus</u> | <u>3</u> | | <u>FACW</u> |
| 7. | <u>Persicaria hydropiperoides</u> | <u>3</u> | | <u>OBL</u> |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| _____ = Total Cover | | | | |
| 50% of total cover: <u>46.00</u> | | | | 20% of total cover: <u>18.40</u> |
| Woody Vine Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| _____ = Total Cover | | | | |
| 50% of total cover: _____ | | | | 20% of total cover: _____ |
| Dominance Test worksheet: | | | | |
| Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) | | | | |
| Total Number of Dominant Species Across All Strata: <u>1</u> (B) | | | | |
| Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B) | | | | |
| Prevalence Index worksheet: | | | | |
| Total % Cover of: | | Multiply by: | | |
| OBL species | <u>81</u> | x 1 = | <u>81</u> | |
| FACW species | <u>8</u> | x 2 = | <u>16</u> | |
| FAC species | <u>0</u> | x 3 = | <u>0</u> | |
| FACU species | <u>3</u> | x 4 = | <u>12</u> | |
| UPL species | <u>0</u> | x 5 = | <u>0</u> | |
| Column Totals: | <u>92</u> (A) | | <u>109</u> (B) | |
| Prevalence Index = B/A = <u>1.18</u> | | | | |
| Hydrophytic Vegetation Indicators: | | | | |
| <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation | | | | |
| <input checked="" type="checkbox"/> 2 - Dominance Test is >50% | | | | |
| <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ | | | | |
| <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) | | | | |
| ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | | | |
| Definitions of Four Vegetation Strata: | | | | |
| 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, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. | | | | |
| Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ | | | | |
| Remarks: (If observed, list morphological adaptations below). | | | | |

SOIL

Sampling Point: B-7

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|-------------------|---------------|---|----------------|---|-------------------|------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| - | | | | | | | | |
| - | | | | | | | Silty Clay | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

No soil pit dug due to inundation, soils assumed hydric.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: B-8
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 1
 Subregion (LRR or MLRA): P 135B Lat: 33.94092 Long: -93.15176 Datum: WGS 84
 Soil Map Unit Name: 20 - Eutaw silty clay loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

| | |
|--|---|
| Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> | Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> |
| Remarks: <p style="font-size: 1.2em; margin-top: 10px;">Maintained field, formerly in silviculture.</p> | |

HYDROLOGY

| | |
|--|--|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) _____ <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe) | Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | |
| Remarks: | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-8

| | Absolute % Cover | Dominant Species? | Indicator Status | |
|---|----------------------------------|-------------------|-------------------------------------|----------------------------------|
| Tree Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| _____ = Total Cover | | | | |
| 50% of total cover: _____ | | | | 20% of total cover: _____ |
| Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| _____ = Total Cover | | | | |
| 50% of total cover: _____ | | | | 20% of total cover: _____ |
| Herb Stratum (Plot size: <u>10 ft r</u>) | | | | |
| 1. | <u>Dichantheium oligosanthes</u> | <u>20</u> | <input checked="" type="checkbox"/> | <u>FACU</u> |
| 2. | <u>Agrostis hyemalis</u> | <u>20</u> | <input checked="" type="checkbox"/> | <u>FAC</u> |
| 3. | <u>Dichantheium scoparium</u> | <u>20</u> | <input checked="" type="checkbox"/> | <u>FACW</u> |
| 4. | <u>Nemophila phacelioides</u> | <u>15</u> | | |
| 5. | <u>Geranium carolinianum</u> | <u>10</u> | | |
| 6. | <u>Valerianella radiata</u> | <u>5</u> | | <u>FAC</u> |
| 7. | <u>Ambrosia artemisiifolia</u> | <u>5</u> | | <u>FACU</u> |
| 8. | <u>Solidago altissima</u> | <u>3</u> | | <u>FACU</u> |
| 9. | <u>Carya sp.</u> | <u>2</u> | | |
| 10. | <u>Triodanis perfoliata</u> | <u>2</u> | | <u>FACU</u> |
| 11. | | | | |
| 12. | | | | |
| _____ = Total Cover | | | | |
| 50% of total cover: <u>51.00</u> | | | | 20% of total cover: <u>20.40</u> |
| Woody Vine Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| _____ = Total Cover | | | | |
| 50% of total cover: _____ | | | | 20% of total cover: _____ |
| Remarks: (If observed, list morphological adaptations below). | | | | |

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.66 (A/B)

Prevalence Index worksheet:

| | |
|------------------------------|------------------|
| Total % Cover of: | Multiply by: |
| OBL species <u>0</u> | x 1 = <u>0</u> |
| FACW species <u>20</u> | x 2 = <u>40</u> |
| FAC species <u>25</u> | x 3 = <u>75</u> |
| FACU species <u>30</u> | x 4 = <u>120</u> |
| UPL species <u>0</u> | x 5 = <u>0</u> |
| Column Totals: <u>75</u> (A) | <u>235</u> (B) |

Prevalence Index = B/A = 3.13

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Four Vegetation Strata:

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, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

SOIL

Sampling Point: B-8

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|-------------------|---------------|----|----------------|----|-------------------|------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 5 | 10YR 3/3 | 90 | 10YR 5/2 | 10 | D | M | Silty Clay | |
| 5 - 18 | 10YR 5/6 | 85 | | | | M | Silty Clay | |
| 5 - 18 | 10YR 5/1 | 15 | | | | | Silty Clay | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County State: Arkansas Sampling Point: B-9
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillside, terrace, etc.): Drainageway Local relief (concave, convex, none): Linear Slope (%): 2
 Subregion (LRR or MLRA): P 135B Lat: 33.94046 Long: -93.15207 Datum: WGS 84
 Soil Map Unit Name: 20 - Eutaw silty clay loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

HYDROLOGY

| | |
|--|--|
| Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input checked="" type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) | <u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum Moss (D8) (LRR T, U) |
|--|--|

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

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

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-9

| | Absolute % Cover | Dominant Species? | Indicator Status | |
|---|---------------------------------|-------------------------------------|------------------|--|
| Tree Stratum (Plot size: <u>15 ft r</u>) | | | | |
| 1. <u>Quercus phellos</u> | <u>15</u> | <input checked="" type="checkbox"/> | <u>FACW</u> | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B) |
| 2. <u>Quercus nigra</u> | <u>5</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | |
| 3. _____ | | | | |
| 4. _____ | | | | |
| 5. _____ | | | | |
| 6. _____ | | | | |
| 7. _____ | | | | |
| 8. _____ | | | | |
| | <u>20</u> | =Total Cover | | Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>40</u> x 1 = <u>40</u> FACW species <u>21</u> x 2 = <u>42</u> FAC species <u>14</u> x 3 = <u>42</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>75</u> (A) <u>124</u> (B) Prevalence Index = B/A = <u>1.65</u> |
| 50% of total cover: <u>10.00</u> | 20% of total cover: <u>4.00</u> | | | |
| Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>) | | | | |
| 1. <u>Carya sp.</u> | <u>3</u> | <input checked="" type="checkbox"/> | | Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) |
| 2. <u>Fraxinus pennsylvanica</u> | <u>3</u> | <input checked="" type="checkbox"/> | <u>FACW</u> | |
| 3. <u>Ilex decidua</u> | <u>3</u> | <input checked="" type="checkbox"/> | <u>FACW</u> | |
| 4. _____ | | | | |
| 5. _____ | | | | |
| 6. _____ | | | | |
| 7. _____ | | | | |
| 8. _____ | | | | |
| | <u>9</u> | =Total Cover | | |
| 50% of total cover: <u>4.50</u> | 20% of total cover: <u>1.80</u> | | | |
| Herb Stratum (Plot size: <u>5 ft r</u>) | | | | |
| 1. <u>Justicia americana</u> | <u>30</u> | <input checked="" type="checkbox"/> | <u>OBL</u> | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four Vegetation Strata: 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, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. |
| 2. <u>Ampelopsis arborea</u> | <u>5</u> | | <u>FAC</u> | |
| 3. <u>Carex lurida</u> | <u>5</u> | | <u>OBL</u> | |
| 4. <u>Cicuta maculata</u> | <u>5</u> | | <u>OBL</u> | |
| 5. <u>Berchemia scandens</u> | <u>2</u> | | <u>FAC</u> | |
| 6. <u>Carex blanda</u> | <u>2</u> | | <u>FAC</u> | |
| 7. _____ | | | | |
| 8. _____ | | | | |
| 9. _____ | | | | |
| 10. _____ | | | | |
| 11. _____ | | | | |
| 12. _____ | | | | |
| | <u>49</u> | =Total Cover | | |
| 50% of total cover: <u>24.50</u> | 20% of total cover: <u>9.80</u> | | | |
| Woody Vine Stratum (Plot size: <u>15 ft r</u>) | | | | |
| 1. _____ | | | | Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 2. _____ | | | | |
| 3. _____ | | | | |
| 4. _____ | | | | |
| 5. _____ | | | | |
| | | =Total Cover 20% | | |
| 50% of total cover: _____ | of total cover: _____ | | | |

Remarks: (If observed, list morphological adaptations below.)

SOIL

Sampling Point: B-9

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---------------|-----|----------------|---|-------------------|------------------|------------|---------|
| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 6 | 10YR 4/3 | 100 | | | | | Silty Clay | |
| 6 - 18 | 10YR 6/1 | 95 | 10YR 4/4 | 5 | C | M | Silty Clay | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Iron Monosulfide (A18)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)
- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Barrier Islands 1 cm Muck (S12) (MLRA 153B, 153D)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Floodplain Soils (F20) (MLRA 149A, 153C, 153D)
- Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Coast Prairie Redox (A16) (outside MLRA 150A)
- Reduced Vertic (F18) (outside MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (LRR P, T)
- Anomalous Bright Floodplain Soils (F20) (MLRA 153B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22) (outside MLRA 138, 152A in FL, 154)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County State: Arkansas Sampling Point: B-10
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillside, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 0-1
 Subregion (LRR or MLRA): P 135B Lat: 33.94050 Long: -93.15214 Datum: WGS 84
 Soil Map Unit Name: 20 - Eutaw silty clay loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

HYDROLOGY

| | |
|---|---|
| Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum Moss (D8) (LRR T, U) |
|---|---|

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

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

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-10

| | Absolute % Cover | Dominant Species? | Indicator Status | |
|---|----------------------------------|-------------------------------------|------------------|---|
| Tree Stratum (Plot size: <u>15 ft r</u>) | | | | |
| 1. <u>Carya cordiformis</u> | <u>10</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.66</u> (A/B) Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>2</u> x 1 = <u>2</u> FACW species <u>8</u> x 2 = <u>16</u> FAC species <u>79</u> x 3 = <u>237</u> FACU species <u>28</u> x 4 = <u>112</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>117</u> (A) <u>367</u> (B) Prevalence Index = B/A = <u>3.13</u> |
| 2. <u>Ulmus alata</u> | <u>10</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | |
| 3. <u>Quercus phellos</u> | <u>5</u> | <input checked="" type="checkbox"/> | <u>FACW</u> | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| 6. _____ | _____ | _____ | _____ | |
| 7. _____ | _____ | _____ | _____ | |
| 8. _____ | _____ | _____ | _____ | |
| | <u>25</u> | =Total Cover | | |
| | 50% of total cover: <u>12.50</u> | 20% of total cover: <u>5.00</u> | | |
| Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>) | | | | |
| 1. <u>Carya cordiformis</u> | <u>15</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | |
| 2. <u>Diospyros virginiana</u> | <u>3</u> | _____ | <u>FAC</u> | |
| 3. <u>Ilex decidua</u> | <u>3</u> | _____ | <u>FACW</u> | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| 6. _____ | _____ | _____ | _____ | |
| 7. _____ | _____ | _____ | _____ | |
| 8. _____ | _____ | _____ | _____ | |
| | <u>21</u> | =Total Cover | | |
| | 50% of total cover: <u>10.50</u> | 20% of total cover: <u>4.20</u> | | |
| Herb Stratum (Plot size: <u>5 ft r</u>) | | | | |
| 1. <u>Chasmanthium sessiliflorum</u> | <u>50</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | |
| 2. <u>Galium palustre</u> | <u>2</u> | _____ | <u>OBL</u> | |
| 3. <u>Sanicula canadensis</u> | <u>2</u> | _____ | <u>FACU</u> | |
| 4. <u>Bignonia capreolata</u> | <u>1</u> | _____ | <u>FAC</u> | |
| 5. <u>Lonicera japonica</u> | <u>1</u> | _____ | <u>FACU</u> | |
| 6. <u>Passiflora sp.</u> | <u>1</u> | _____ | _____ | |
| 7. _____ | _____ | _____ | _____ | |
| 8. _____ | _____ | _____ | _____ | |
| 9. _____ | _____ | _____ | _____ | |
| 10. _____ | _____ | _____ | _____ | |
| 11. _____ | _____ | _____ | _____ | |
| 12. _____ | _____ | _____ | _____ | |
| | <u>57</u> | =Total Cover | | |
| | 50% of total cover: <u>28.50</u> | 20% of total cover: <u>11.40</u> | | |
| Woody Vine Stratum (Plot size: <u>15 ft r</u>) | | | | |
| 1. <u>Parthenocissus quinquefolia</u> | <u>15</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| | <u>15</u> | =Total Cover 20% | | |
| | 50% of total cover: <u>7.50</u> | of total cover: <u>3.00</u> | | |

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

Definitions of Four Vegetation Strata:
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, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No _____

Remarks: (If observed, list morphological adaptations below.)

SOIL

Sampling Point: B-10

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|---|---------------|-----|----------------|----|-------------------|------------------|------------|---------|
| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 5 | 10YR 3/3 | 100 | | | | | Silty Clay | |
| 5 - 16 | 10YR 5/2 | 85 | 10YR 4/4 | 5 | C | M | Silty Clay | |
| 5 - 16 | | | 10YR 2/1 | 10 | D | M | Silty Clay | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) **(LRR P, T, U)**
- 5 cm Mucky Mineral (A7) **(LRR P, T, U)**
- Muck Presence (A8) **(LRR U)**
- 1 cm Muck (A9) **(LRR P, T)**
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) **(MLRA 150A)**
- Iron Monosulfide (A18)
- Sandy Mucky Mineral (S1) **(LRR O, S)**
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) **(LRR P, S, T, U)**
- Polyvalue Below Surface (S8) **(LRR S, T, U)**
- Thin Dark Surface (S9) **(LRR S, T, U)**
- Barrier Islands 1 cm Muck (S12) **(MLRA 153B, 153D)**
- Loamy Mucky Mineral (F1) **(LRR O)**
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) **(LRR U)**
- Depleted Ochric (F11) **(MLRA 151)**
- Iron-Manganese Masses (F12) **(LRR O, P, T)**
- Umbric Surface (F13) **(LRR P, T, U)**
- Delta Ochric (F17) **(MLRA 151)**
- Reduced Vertic (F18) **(MLRA 150A, 150B)**
- Piedmont Floodplain Soils (F19) **(MLRA 149A)**
- Anomalous Bright Floodplain Soils (F20) **(MLRA 149A, 153C, 153D)**
- Very Shallow Dark Surface (F22) **(MLRA 138, 152A in FL, 154)**

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) **(LRR O)**
- 2 cm Muck (A10) **(LRR S)**
- Coast Prairie Redox (A16) **(outside MLRA 150A)**
- Reduced Vertic (F18) **(outside MLRA 150A, 150B)**
- Piedmont Floodplain Soils (F19) **(LRR P, T)**
- Anomalous Bright Floodplain Soils (F20) **(MLRA 153B)**
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22) **(outside MLRA 138, 152A in FL, 154)**
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: B-11
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): Undulating Slope (%): 1
 Subregion (LRR or MLRA): P 135B Lat: 33.94104 Long: -93.15454 Datum: WGS 84
 Soil Map Unit Name: 89 - Urbo silty clay loam, occasionally flooded NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

| | |
|--|---|
| Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____ | Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ |
| Remarks: <p style="font-size: 1.2em; margin-top: 10px;">Maintained field, formerly in silviculture.</p> | |

HYDROLOGY

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|--|---|---|---|--|---|--|--|---|--|---|---|---|--|--|---|--|---|--|---|---|--|--|--|--|---|--|---|--|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;"><input checked="" type="checkbox"/> Surface Water (A1)</td> <td style="width:50%; border: none;"><input checked="" type="checkbox"/> Aquatic Fauna (B13)</td> </tr> <tr> <td style="border: none;"><input checked="" type="checkbox"/> High Water Table (A2)</td> <td style="border: none;"><input type="checkbox"/> Marl Deposits (B15) (LRR U)</td> </tr> <tr> <td style="border: none;"><input checked="" type="checkbox"/> Saturation (A3)</td> <td style="border: none;"><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Water Marks (B1)</td> <td style="border: none;"><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Sediment Deposits (B2)</td> <td style="border: none;"><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Drift Deposits (B3)</td> <td style="border: none;"><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Algal Mat or Crust (B4)</td> <td style="border: none;"><input type="checkbox"/> Thin Muck Surface (C7)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Iron Deposits (B5)</td> <td style="border: none;"><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td></td> </tr> <tr> <td style="border: none;"><input checked="" type="checkbox"/> Water-Stained Leaves (B9)</td> <td></td> </tr> </table> | <input checked="" type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Aquatic Fauna (B13) | <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Marl Deposits (B15) (LRR U) | <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | <input checked="" type="checkbox"/> Water-Stained Leaves (B9) | | Secondary Indicators (minimum of two required) <table style="width:100%; border: none;"> <tr><td style="border: none;"><input checked="" type="checkbox"/> Surface Soil Cracks (B6)</td></tr> <tr><td style="border: none;"><input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td></tr> <tr><td style="border: none;"><input checked="" type="checkbox"/> Drainage Patterns (B10)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Moss Trim Lines (B16)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Dry-Season Water Table (C2)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Crayfish Burrows (C8)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Geomorphic Position (D2)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Shallow Aquitard (D3)</td></tr> <tr><td style="border: none;"><input checked="" type="checkbox"/> FAC-Neutral Test (D5)</td></tr> <tr><td style="border: none;"><input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)</td></tr> </table> | <input checked="" type="checkbox"/> Surface Soil Cracks (B6) | <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input checked="" type="checkbox"/> Drainage Patterns (B10) | <input type="checkbox"/> Moss Trim Lines (B16) | <input type="checkbox"/> Dry-Season Water Table (C2) | <input type="checkbox"/> Crayfish Burrows (C8) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) | <input type="checkbox"/> Geomorphic Position (D2) | <input type="checkbox"/> Shallow Aquitard (D3) | <input checked="" type="checkbox"/> FAC-Neutral Test (D5) | <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| <input checked="" type="checkbox"/> Surface Water (A1) | <input checked="" type="checkbox"/> Aquatic Fauna (B13) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Marl Deposits (B15) (LRR U) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Other (Explain in Remarks) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Water-Stained Leaves (B9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Surface Soil Cracks (B6) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Drainage Patterns (B10) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Moss Trim Lines (B16) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Dry-Season Water Table (C2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Crayfish Burrows (C8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Geomorphic Position (D2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Shallow Aquitard (D3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> FAC-Neutral Test (D5) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0-6</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u> | Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-11

| | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|-------------------------------------|------------------|--|--|-------------------|--------------|-------------|----------|----------------|--------------|----------|-----------------|-------------|----------|-----------------|--------------|-----------|-----------------|-------------|----------|----------------|----------------|---------------|---------------|
| Tree Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum (Plot size: <u>5 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Dichantheium oligosanthes</u> | <u>10</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | |
| 2. <u>Agrostis hyemalis</u> | <u>5</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | |
| 3. <u>Cyperus pseudovegetus</u> | <u>5</u> | <input checked="" type="checkbox"/> | <u>FACW</u> | | | | | | | | | | | | | | | | | | | | | | |
| 4. <u>Ludwigia palustris</u> | <u>3</u> | | <u>OBL</u> | | | | | | | | | | | | | | | | | | | | | | |
| 5. <u>Eupatorium capillifolium</u> | <u>2</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | |
| 6. <u>Eleocharis obtusa</u> | <u>2</u> | | <u>OBL</u> | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 9. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 10. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 11. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 12. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| <u>27</u> = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>13.50</u> 20% of total cover: <u>5.40</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 2. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | |
| _____ = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: _____ 20% of total cover: _____ | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Dominance Test worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>3</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.66</u> (A/B)</p> <hr/> <p>Prevalence Index worksheet:</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;"></td> <td style="width:30%; text-align: center;">Total % Cover of:</td> <td style="width:30%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 1 = <u>5</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 2 = <u>10</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>5</u></td> <td style="text-align: center;">x 3 = <u>15</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>12</u></td> <td style="text-align: center;">x 4 = <u>48</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td style="text-align: center;">x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;"><u>27</u> (A)</td> <td style="text-align: center;"><u>78</u> (B)</td> </tr> </table> <p>Prevalence Index = B/A = <u>2.88</u></p> <hr/> <p>Hydrophytic Vegetation Indicators:</p> <p><input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation</p> <p><input checked="" type="checkbox"/> 2 - Dominance Test is >50%</p> <p><input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0¹</p> <p><input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p><small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small></p> <hr/> <p>Definitions of Four Vegetation Strata:</p> <p>Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</p> <p>Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.</p> <p>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</p> <p>Woody vine – All woody vines greater than 3.28 ft in height.</p> <hr/> <p>Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____</p> | | | | | | Total % Cover of: | Multiply by: | OBL species | <u>5</u> | x 1 = <u>5</u> | FACW species | <u>5</u> | x 2 = <u>10</u> | FAC species | <u>5</u> | x 3 = <u>15</u> | FACU species | <u>12</u> | x 4 = <u>48</u> | UPL species | <u>0</u> | x 5 = <u>0</u> | Column Totals: | <u>27</u> (A) | <u>78</u> (B) |
| | Total % Cover of: | Multiply by: | | | | | | | | | | | | | | | | | | | | | | | |
| OBL species | <u>5</u> | x 1 = <u>5</u> | | | | | | | | | | | | | | | | | | | | | | | |
| FACW species | <u>5</u> | x 2 = <u>10</u> | | | | | | | | | | | | | | | | | | | | | | | |
| FAC species | <u>5</u> | x 3 = <u>15</u> | | | | | | | | | | | | | | | | | | | | | | | |
| FACU species | <u>12</u> | x 4 = <u>48</u> | | | | | | | | | | | | | | | | | | | | | | | |
| UPL species | <u>0</u> | x 5 = <u>0</u> | | | | | | | | | | | | | | | | | | | | | | | |
| Column Totals: | <u>27</u> (A) | <u>78</u> (B) | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: (If observed, list morphological adaptations below). | | | | | | | | | | | | | | | | | | | | | | | | | |

SOIL

Sampling Point: B-11

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|-------------------|---------------|----|----------------|----|-------------------|------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 3 | 7.5YR 3/2 | 90 | 7.5YR 4/6 | 10 | C | M | Silt | |
| 3 - 18 | 7.5YR 6/1 | 85 | 7.5YR 4/6 | 15 | C | M | Silty Clay | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: B-12
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 1
 Subregion (LRR or MLRA): P 135B Lat: 33.94105 Long: -93.15464 Datum: WGS 84
 Soil Map Unit Name: 89 - Urbo silty clay loam, occasionally flooded NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

| | |
|--|---|
| Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> | Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> |
| Remarks: <p style="font-size: 1.2em; margin-top: 10px;">Maintained field, formerly in silviculture.</p> | |

HYDROLOGY

| | |
|--|--|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) _____ <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ | Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | |
| Remarks: | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-12

| | Absolute % Cover | Dominant Species? | Indicator Status | |
|--|-----------------------------------|-------------------|-------------------------------------|----------------------------------|
| Tree Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| _____ = Total Cover | | | | |
| 50% of total cover: _____ | | | | 20% of total cover: _____ |
| Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| _____ = Total Cover | | | | |
| 50% of total cover: _____ | | | | 20% of total cover: _____ |
| Herb Stratum (Plot size: <u>5 ft r</u>) | | | | |
| 1. | <u>Agrostis hyemalis</u> | <u>30</u> | <input checked="" type="checkbox"/> | <u>FAC</u> |
| 2. | <u>Foeniculum vulgare</u> | <u>15</u> | <input checked="" type="checkbox"/> | |
| 3. | <u>Dichanthelium scoparium</u> | <u>15</u> | <input checked="" type="checkbox"/> | <u>FACW</u> |
| 4. | <u>Dichanthelium oligosanthos</u> | <u>15</u> | <input checked="" type="checkbox"/> | <u>FACU</u> |
| 5. | <u>unidentified herb</u> | <u>10</u> | | |
| 6. | <u>Krigia virginica</u> | <u>2</u> | | <u>FACU</u> |
| 7. | <u>Cyperus eragrostis</u> | <u>2</u> | | <u>FACW</u> |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| _____ = Total Cover | | | | |
| 50% of total cover: <u>44.50</u> | | | | 20% of total cover: <u>17.80</u> |
| Woody Vine Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| _____ = Total Cover | | | | |
| 50% of total cover: _____ | | | | 20% of total cover: _____ |
| <p>Remarks: (If observed, list morphological adaptations below).</p> | | | | |

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.66 (A/B)

Prevalence Index worksheet:

| Total % Cover of: | | Multiply by: | | |
|-------------------|-----------|--------------|------------|-----|
| OBL species | <u>0</u> | x 1 = | <u>0</u> | |
| FACW species | <u>17</u> | x 2 = | <u>34</u> | |
| FAC species | <u>30</u> | x 3 = | <u>90</u> | |
| FACU species | <u>17</u> | x 4 = | <u>68</u> | |
| UPL species | <u>0</u> | x 5 = | <u>0</u> | |
| Column Totals: | <u>64</u> | (A) | <u>192</u> | (B) |

Prevalence Index = B/A = 3.00

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Four Vegetation Strata:

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, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

SOIL

Sampling Point: B-12

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|-------------------|---------------|-----|----------------|----|-------------------|------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 2 | 10YR 2/1 | 100 | | | | | Silt | |
| 2 - 5 | 10YR 5/3 | 90 | 10YR 4/6 | 10 | C | M | Silty Clay | |
| 5 - 18 | 10YR 5/2 | 85 | 10YR 4/6 | 15 | C | M | Silty Clay | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: B-13
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 1
 Subregion (LRR or MLRA): P 135B Lat: 33.94097 Long: -93.15213 Datum: WGS 84
 Soil Map Unit Name: 20 - Eutaw silty clay loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

HYDROLOGY

| | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|---|--|---|---|--|---|--|--|---|--|---|---|---|--|--|--|--|--|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <table style="width:100%; border: none;"> <tr> <td><input type="checkbox"/> Surface Water (A1)</td> <td><input type="checkbox"/> Aquatic Fauna (B13)</td> </tr> <tr> <td><input type="checkbox"/> High Water Table (A2)</td> <td><input type="checkbox"/> Marl Deposits (B15) (LRR U)</td> </tr> <tr> <td><input type="checkbox"/> Saturation (A3)</td> <td><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td><input type="checkbox"/> Water Marks (B1)</td> <td><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</td> </tr> <tr> <td><input type="checkbox"/> Sediment Deposits (B2)</td> <td><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td><input type="checkbox"/> Drift Deposits (B3)</td> <td><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td><input type="checkbox"/> Algal Mat or Crust (B4)</td> <td><input type="checkbox"/> Thin Muck Surface (C7)</td> </tr> <tr> <td><input type="checkbox"/> Iron Deposits (B5)</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> <tr> <td><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Water-Stained Leaves (B9)</td> <td></td> </tr> </table> | <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Aquatic Fauna (B13) | <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Marl Deposits (B15) (LRR U) | <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | <input type="checkbox"/> Water-Stained Leaves (B9) | | Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Aquatic Fauna (B13) | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Marl Deposits (B15) (LRR U) | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Other (Explain in Remarks) | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Water-Stained Leaves (B9) | | | | | | | | | | | | | | | | | | | | | |
| Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ | Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | | | | | | | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | | | | | | | | | | | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: B-13

| | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|-------------------------------------|------------------|--|-------------------|----------|--------------|----------|-------------|----------|-------|----------|--------------|----------|-------|-----------|-------------|-----------|-------|------------|--------------|-----------|-------|------------|-------------|----------|-------|----------|----------------|------------|-----|------------|--------------------------------------|--|--|--|
| Tree Stratum (Plot size: <u>20 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Liquidambar styraciflua</u> | <u>15</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.00</u> (A/B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <u>Acer rubrum</u> | <u>10</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <u>Carya glabra</u> | <u>5</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>30</u> = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>15.00</u> 20% of total cover: <u>6.00</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum (Plot size: <u>20 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Baccharis halimifolia</u> | <u>40</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | Prevalence Index worksheet: <table style="width:100%; border:none;"> <tr> <td style="text-align:right;">Total % Cover of:</td> <td style="text-align:center;"><u>0</u></td> <td style="text-align:right;">Multiply by:</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>OBL species</td> <td style="text-align:center;"><u>0</u></td> <td>x 1 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align:center;"><u>5</u></td> <td>x 2 =</td> <td style="text-align:center;"><u>10</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align:center;"><u>91</u></td> <td>x 3 =</td> <td style="text-align:center;"><u>273</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align:center;"><u>94</u></td> <td>x 4 =</td> <td style="text-align:center;"><u>376</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align:center;"><u>0</u></td> <td>x 5 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align:center;"><u>190</u></td> <td>(A)</td> <td style="text-align:center;"><u>659</u></td> </tr> <tr> <td colspan="4">Prevalence Index = B/A = <u>3.46</u></td> </tr> </table> | Total % Cover of: | <u>0</u> | Multiply by: | <u>0</u> | OBL species | <u>0</u> | x 1 = | <u>0</u> | FACW species | <u>5</u> | x 2 = | <u>10</u> | FAC species | <u>91</u> | x 3 = | <u>273</u> | FACU species | <u>94</u> | x 4 = | <u>376</u> | UPL species | <u>0</u> | x 5 = | <u>0</u> | Column Totals: | <u>190</u> | (A) | <u>659</u> | Prevalence Index = B/A = <u>3.46</u> | | | |
| Total % Cover of: | <u>0</u> | Multiply by: | <u>0</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OBL species | <u>0</u> | x 1 = | <u>0</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACW species | <u>5</u> | x 2 = | <u>10</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FAC species | <u>91</u> | x 3 = | <u>273</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACU species | <u>94</u> | x 4 = | <u>376</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UPL species | <u>0</u> | x 5 = | <u>0</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Column Totals: | <u>190</u> | (A) | <u>659</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prevalence Index = B/A = <u>3.46</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <u>Carya glabra</u> | <u>10</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <u>Gleditsia triacanthos</u> | <u>5</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. <u>Diospyros virginiana</u> | <u>5</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. <u>Fraxinus americana</u> | <u>5</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. <u>Pinus taeda</u> | <u>3</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. <u>Quercus velutina</u> | <u>1</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>69</u> = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>34.50</u> 20% of total cover: <u>13.80</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum (Plot size: <u>5 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Solidago altissima</u> | <u>30</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <u>Juncus tenuis</u> | <u>5</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <u>unidentified grass</u> | <u>5</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. <u>Cirsium horridulum</u> | <u>3</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. <u>Thyrsanthella difformis</u> | <u>3</u> | | <u>FACW</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. <u>Carex bushii</u> | <u>2</u> | | <u>FACW</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. <u>Triodanis perfoliata</u> | <u>2</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>50</u> = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>25.00</u> 20% of total cover: <u>10.00</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum (Plot size: <u>10 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Rubus trivialis</u> | <u>40</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | Definitions of Four Vegetation Strata: 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, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <u>Ampelopsis arborea</u> | <u>5</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <u>Lonicera japonica</u> | <u>2</u> | | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>47</u> = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>23.50</u> 20% of total cover: <u>9.40</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: (If observed, list morphological adaptations below). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SOIL

Sampling Point: B-13

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|-------------------|---------------|-----|----------------|----|-------------------|------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 6 | 10YR 3/2 | 100 | | | | | Silty Clay | |
| 6 - 18 | 10YR 3/2 | 80 | 10YR 4/3 | 10 | C | M | Silty Clay | |
| 6 - 18 | | | 10YR 5/2 | 10 | D | M | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: R-1
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 1
 Subregion (LRR or MLRA): P 135B Lat: 33.94468 Long: -93.15546 Datum: WGS 84
 Soil Map Unit Name: 20 - Eutaw silty clay loam, 0 to 2 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

| | |
|--|---|
| Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> | Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> |
| Remarks: Reference point in non-silviculture area to the west. | |

HYDROLOGY

| | |
|--|--|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) _____ <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe) | Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | |
| Remarks: | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: **R-1**

| Tree Stratum (Plot size: <u>30 ft r</u>) | Absolute % Cover | Dominant Species? | Indicator Status | |
|---|------------------|-------------------------------------|------------------|--|
| 1. <u>Quercus phellos</u> | <u>25</u> | <input checked="" type="checkbox"/> | <u>FACW</u> | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>44.44</u> (A/B) |
| 2. <u>Quercus alba</u> | <u>10</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | |
| 3. <u>Quercus velutina</u> | <u>5</u> | | | |
| 4. <u>Ulmus alata</u> | <u>5</u> | | <u>FACU</u> | |
| 5. _____ | | | | |
| 6. _____ | | | | |
| 7. _____ | | | | |
| 8. _____ | | | | |
| <u>45</u> = Total Cover 50% of total cover: <u>22.50</u> 20% of total cover: <u>9.00</u> | | | | Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>28</u> x 2 = <u>56</u> FAC species <u>41</u> x 3 = <u>123</u> FACU species <u>39</u> x 4 = <u>156</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>108</u> (A) <u>335</u> (B) Prevalence Index = B/A = <u>3.10</u> |
| Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. <u>Crataegus marshallii</u> | <u>10</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | |
| 2. <u>Quercus velutina</u> | <u>10</u> | <input checked="" type="checkbox"/> | | |
| 3. <u>Carya ovata</u> | <u>5</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | |
| 4. <u>Quercus alba</u> | <u>5</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | |
| 5. <u>Quercus alba</u> | <u>5</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | |
| 6. <u>Ulmus alata</u> | <u>3</u> | | <u>FACU</u> | |
| 7. <u>Fraxinus pennsylvanica</u> | <u>2</u> | | <u>FACW</u> | |
| 8. _____ | | | | |
| <u>40</u> = Total Cover 50% of total cover: <u>20.00</u> 20% of total cover: <u>8.00</u> | | | | |
| Herb Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. <u>Chasmanthium sessiliflorum</u> | <u>20</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) |
| 2. <u>Pycnanthemum muticum</u> | <u>5</u> | | <u>FAC</u> | |
| 3. <u>Solidago altissima</u> | <u>3</u> | | <u>FACU</u> | |
| 4. <u>Elymus virginicus</u> | <u>2</u> | | <u>FAC</u> | |
| 5. <u>Desmodium paniculatum</u> | <u>1</u> | | <u>FACU</u> | |
| 6. <u>Parthenium hysterophorus</u> | <u>1</u> | | <u>FAC</u> | |
| 7. _____ | | | | |
| 8. _____ | | | | |
| 9. _____ | | | | |
| 10. _____ | | | | |
| 11. _____ | | | | |
| 12. _____ | | | | |
| <u>32</u> = Total Cover 50% of total cover: <u>16.00</u> 20% of total cover: <u>6.40</u> | | | | |
| Woody Vine Stratum (Plot size: <u>30 ft r</u>) | | | | |
| 1. <u>Toxicodendron radicans</u> | <u>3</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | Definitions of Four Vegetation Strata: 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, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. |
| 2. <u>Lonicera japonica</u> | <u>2</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | |
| 3. <u>Thyrsanthella difformis</u> | <u>1</u> | | <u>FACW</u> | |
| 4. _____ | | | | |
| 5. _____ | | | | |
| <u>6</u> = Total Cover 50% of total cover: <u>3.00</u> 20% of total cover: <u>1.20</u> | | | | |
| Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> | | | | |
| Remarks: (If observed, list morphological adaptations below). | | | | |

SOIL

Sampling Point: R-1

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|-------------------|---------------|-----|----------------|---|-------------------|------------------|---------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 18 | 10YR 3/2 | 100 | | | | | Silt | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Gurdon Industrial Site City/County: Clark County Sampling Date: 2026-05-08
 Applicant/Owner: Economic Development Corporation of Clark County, Arkansas State: Arkansas Sampling Point: R-2
 Investigator(s): Jimmy Rogers Section, Township, Range: S21 T9S R20W
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR or MLRA): P 135B Lat: 33.9408 Long: -93.15466 Datum: WGS 84
 Soil Map Unit Name: 89 - Urbo silty clay loam, occasionally flooded NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

| | |
|--|---|
| Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> | Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> |
| Remarks: <p style="font-size: 1.2em; margin-top: 10px;">Reference point in non-silviculture area to the south.</p> | |

HYDROLOGY

| | |
|--|--|
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) _____ <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |
| Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ | Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/> |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | |
| Remarks: | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: **R-2**

| | Absolute % Cover | Dominant Species? | Indicator Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|-------------------------------------|------------------|--|-------------------|----------|--------------|----------|-------------|----------|-------|----------|--------------|-----------|-------|-----------|-------------|-----------|-------|-----------|--------------|-----------|-------|------------|-------------|----------|-------|----------|----------------|---------------|--|----------------|
| Tree Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Quercus alba</u> | <u>20</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>28.57</u> (A/B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <u>Carya ovata</u> | <u>10</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>30</u> = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>15.00</u> | | 20% of total cover: <u>6.00</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sapling/Shrub Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Quercus alba</u> | <u>15</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | Prevalence Index worksheet: <table style="width:100%; border:none;"> <tr> <td style="text-align:right;">Total % Cover of:</td> <td style="text-align:center;"><u>0</u></td> <td style="text-align:right;">Multiply by:</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>OBL species</td> <td style="text-align:center;"><u>0</u></td> <td>x 1 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>FACW species</td> <td style="text-align:center;"><u>13</u></td> <td>x 2 =</td> <td style="text-align:center;"><u>26</u></td> </tr> <tr> <td>FAC species</td> <td style="text-align:center;"><u>26</u></td> <td>x 3 =</td> <td style="text-align:center;"><u>78</u></td> </tr> <tr> <td>FACU species</td> <td style="text-align:center;"><u>57</u></td> <td>x 4 =</td> <td style="text-align:center;"><u>228</u></td> </tr> <tr> <td>UPL species</td> <td style="text-align:center;"><u>0</u></td> <td>x 5 =</td> <td style="text-align:center;"><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align:center;"><u>96</u> (A)</td> <td></td> <td style="text-align:center;"><u>332</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.45</u> | Total % Cover of: | <u>0</u> | Multiply by: | <u>0</u> | OBL species | <u>0</u> | x 1 = | <u>0</u> | FACW species | <u>13</u> | x 2 = | <u>26</u> | FAC species | <u>26</u> | x 3 = | <u>78</u> | FACU species | <u>57</u> | x 4 = | <u>228</u> | UPL species | <u>0</u> | x 5 = | <u>0</u> | Column Totals: | <u>96</u> (A) | | <u>332</u> (B) |
| Total % Cover of: | <u>0</u> | Multiply by: | <u>0</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OBL species | <u>0</u> | x 1 = | <u>0</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACW species | <u>13</u> | x 2 = | <u>26</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FAC species | <u>26</u> | x 3 = | <u>78</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FACU species | <u>57</u> | x 4 = | <u>228</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UPL species | <u>0</u> | x 5 = | <u>0</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Column Totals: | <u>96</u> (A) | | <u>332</u> (B) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <u>Carya ovata</u> | <u>10</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <u>Fraxinus pennsylvanica</u> | <u>3</u> | | <u>FACW</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. <u>Ilex decidua</u> | <u>3</u> | | <u>FACW</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. <u>Pinus taeda</u> | <u>2</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. <u>Quercus phellos</u> | <u>2</u> | | <u>FACW</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>35</u> = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>17.50</u> | | 20% of total cover: <u>7.00</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Herb Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Chasmanthium sessiliflorum</u> | <u>20</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <u>Dichantherium clandestinum</u> | <u>5</u> | | <u>FACW</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. <u>Elymus virginicus</u> | <u>1</u> | | <u>FAC</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>26</u> = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>13.00</u> | | 20% of total cover: <u>5.20</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woody Vine Stratum (Plot size: <u>30 ft r</u>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. <u>Toxicodendron radicans</u> | <u>3</u> | <input checked="" type="checkbox"/> | <u>FAC</u> | Definitions of Four Vegetation Strata: 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, less than 3 in. DBH and greater than 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 – All woody vines greater than 3.28 ft in height. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. <u>Lonicera japonica</u> | <u>2</u> | <input checked="" type="checkbox"/> | <u>FACU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>5</u> = Total Cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50% of total cover: <u>2.50</u> | | 20% of total cover: <u>1.00</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrophytic Vegetation Present? | | | | Yes _____ No <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: (If observed, list morphological adaptations below). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SOIL

Sampling Point: R-2

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

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|-------------------|---------------|-----|----------------|---|-------------------|------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | | |
| 0 - 18 | 2.5YR 4/3 | 100 | | | | | Silty Clay | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |
| - | | | | | | | | |

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No

Remarks:

Attachment B
Representative Photos



Photo 1: Overview of project area (looking south from north) (UAS image).



Photo 2: Overview of project area (looking northwest from southeast) (UAS image).



Photo 3: Maintained field community (B-1, looking south)



Photo 4: Maintained field community (B-4, looking north)



Photo 5: Scrub/shrub upland community (B-13, looking north)



Photo 6: Mixed-forest upland community (B-10, looking north)



Photo 7: Reference location: R-1



Photo 8: Reference location: R-2



Photo 9: WET-A1



Photo 10: WET-A1



Photo 11: WET-A2



Photo 12: WET-A2



Photo 13: WET-B

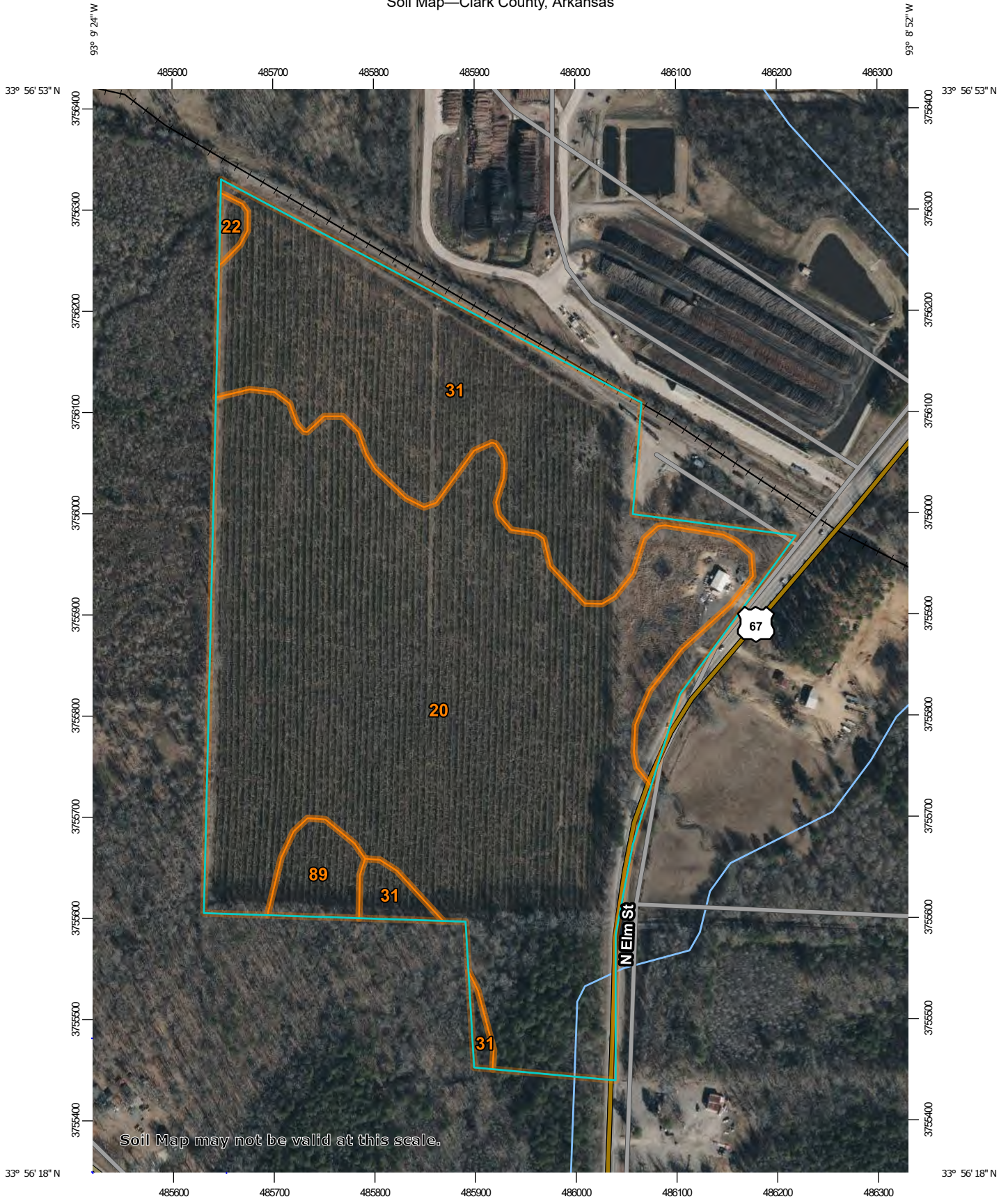


Photo 14: WET-B

Attachment C

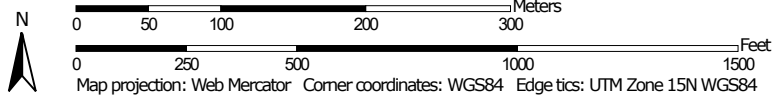
Reference Maps

Soil Map—Clark County, Arkansas




Soil Map may not be valid at this scale.

Map Scale: 1:5,220 if printed on A portrait (8.5" x 11") sheet.



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)




















Soils





 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features






-  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
-  Special Line Features


Water Features

 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: Clark County, Arkansas
 Survey Area Data: Version 7, Sep 10, 2025

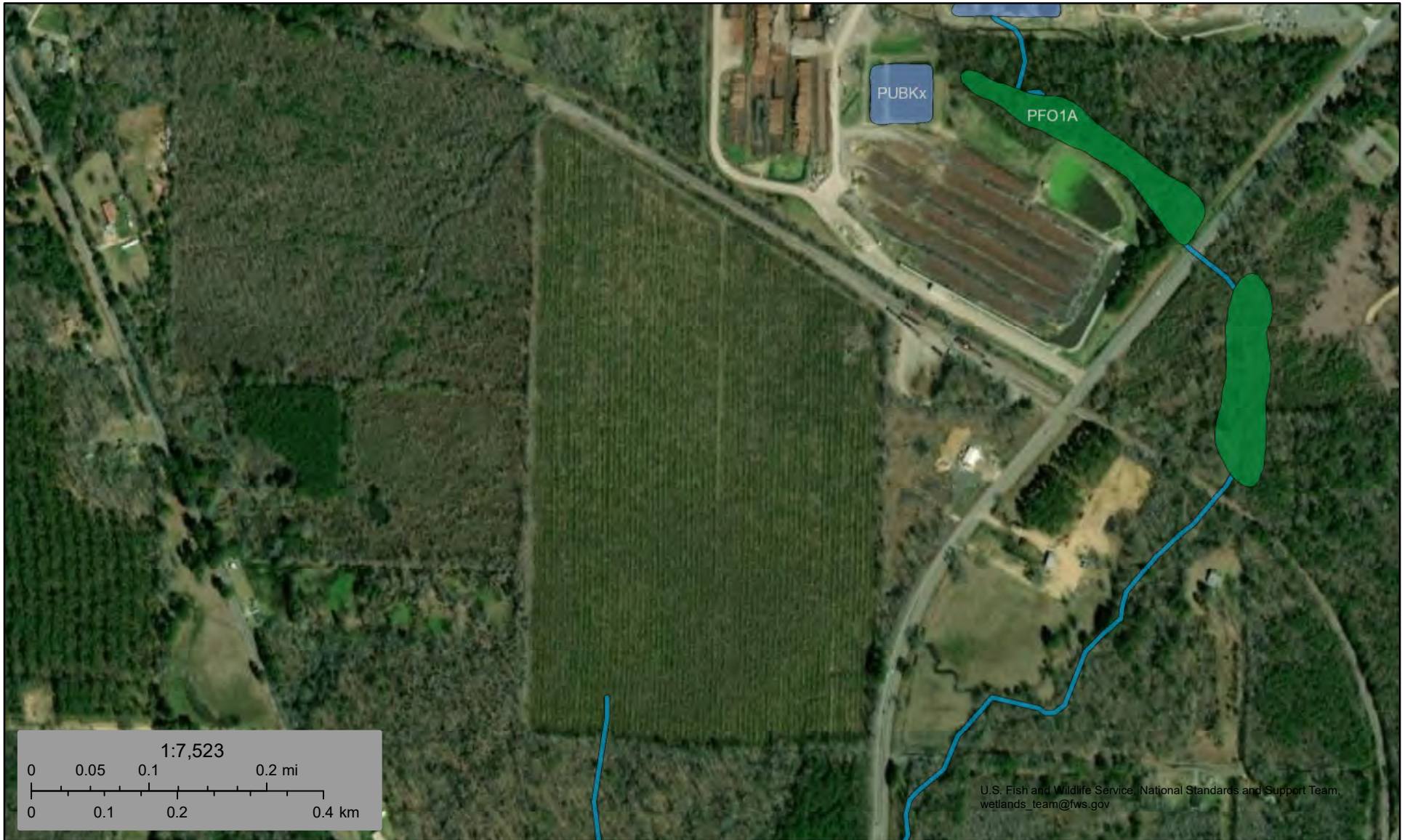
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 22, 2023—Feb 17, 2023

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 |
|------------------------------------|--|--------------|----------------|
| 20 | Eutaw silty clay loam, 0 to 2 percent slopes | 50.9 | 67.4% |
| 22 | Gurdon silt loam, 1 to 3 percent slopes | 0.3 | 0.4% |
| 31 | Kipling silt loam, 0 to 2 percent slopes | 22.5 | 29.8% |
| 89 | Urbo silty clay loam, occasionally flooded | 1.8 | 2.3% |
| Totals for Area of Interest | | 75.5 | 100.0% |



October 8, 2024

Wetlands

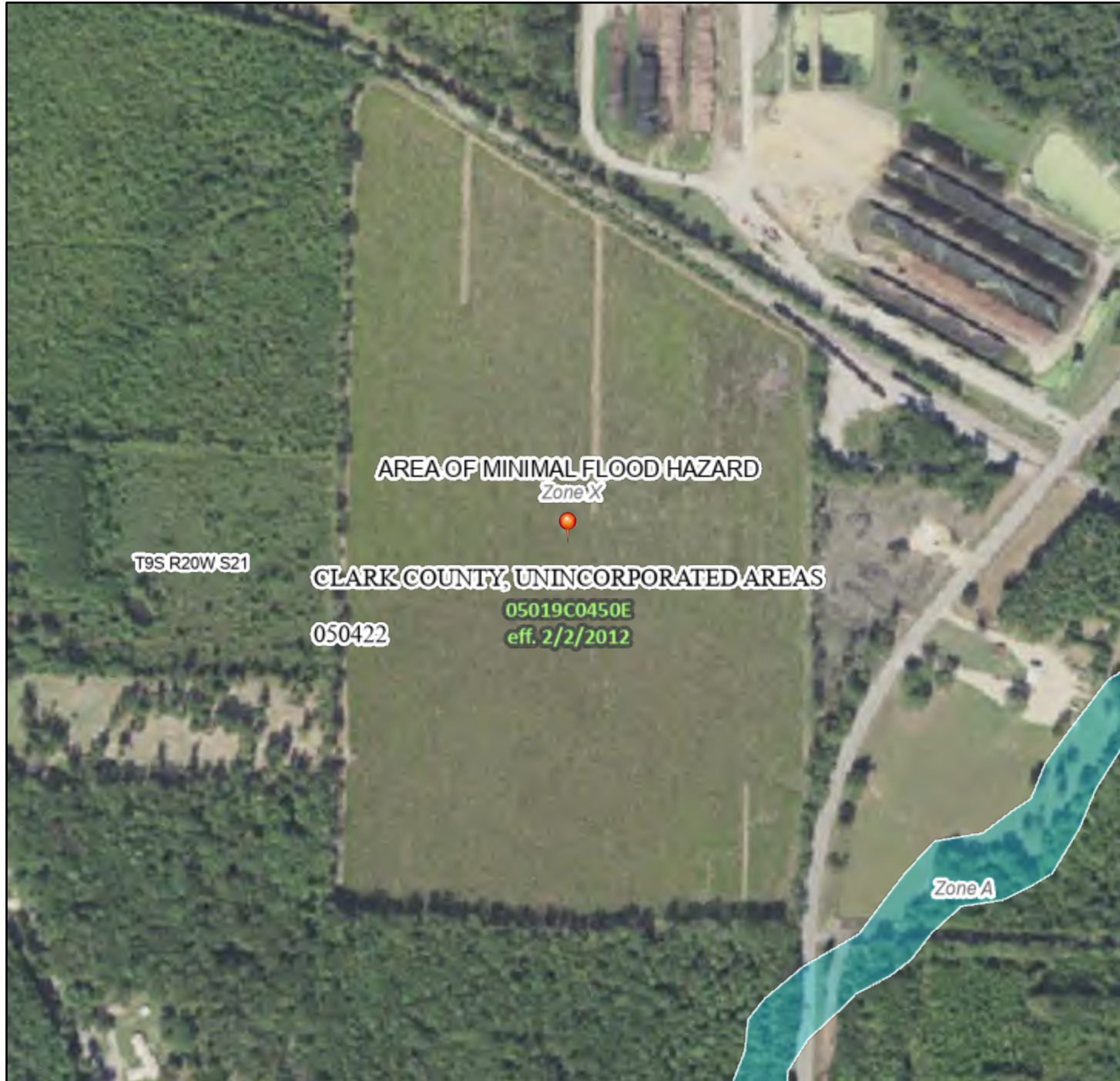
- | | | |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland |  Lake |
|  Estuarine and Marine Wetland |  Freshwater Forested/Shrub Wetland |  Other |
| |  Freshwater Pond |  Riverine |

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.

National Flood Hazard Layer FIRMMette



93°9'31"W 33°56'52"N



Legend

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

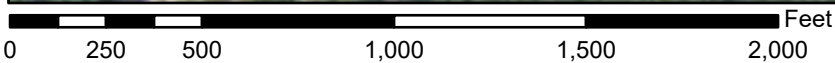
| | | |
|-----------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i> |
| | | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> |
| | | Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
| | | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> |
| | | Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> |
| | | Effective LOMRs |
| GENERAL STRUCTURES | | Area of Undetermined Flood Hazard <i>Zone D</i> |
| | | Channel, Culvert, or Storm Sewer |
| | | Levee, Dike, or Floodwall |
| OTHER FEATURES | | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation |
| | | 17.5 Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| | | Coastal Transect Baseline |
| MAP PANELS | | Profile Baseline |
| | | Hydrographic Feature |
| | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/3/2024 at 3:35 PM 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.



1:6,000

93°8'53"W 33°56'23"N

Basemap Imagery Source: USGS National Map 2023