

A dark blue silhouette of the state of Louisiana is centered in the background of the page. The text is overlaid on this map.

Exhibit Y – Franklin Farm Wetland Delineation and Determination

WETLAND DELINEATION AND DETERMINATION

PREPARED FOR

**Northeast Louisiana Economic Alliance
Franklin Farm Mega Site**

*FOR AN ~ 1440 ACRE PARCEL OF LAND
LOCATED WITHIN PARTIAL SECTIONS 27 & 34,
TOWNSHIP 18 NORTH, RANGE 8 EAST,
AND SECTION 3,
TOWNSHIP 17 NORTH, RANGE 8 EAST,
RICHLAND PARISH, LOUISIANA*

January 2008

By

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INTRODUCTION

Wildlife Technical Services, Inc. (WTSI) was retained by the Northeast Louisiana Economic Alliance to complete a wetlands delineation and determination on a parcel of land containing approximately 1,440.0 acres referred to as the Franklin Farm Mega Site located within the Holly Ridge Community in Richland Parish, Louisiana. The property is more particularly described as being within portions of Sections 27 and 34, Township 18 North, Range 8 East, and Section 3, Township 17 North, Range 8 East, all located in Richland Parish, Louisiana. The exact physical location of the property is shown on the attached copy of the U.S.G.S. Whitney Island South and Bee Bayou, Louisiana Quadrangle Map (**Appendix I**).

WTSI completed the wetland delineation and determination on January 3, 2007. The principal investigators for this project were Clay Cromwell, Dustin Simmons, Adam Goff and Bert Turcotte of WTSI. The project was completed using standard accepted procedures for wetland delineation and determination as established by the U.S. Army Corps of Engineers.

The following report contains:

- 1) methodology used for actual wetland determination;
- 2) a site description, including the observed ecological processes occurring on site; and
- 3) conclusions drawn from this study.

Appendices included are an integral and inseparable part of this report and are listed as **I**) copies of the Richland Parish, Louisiana General Highway Map, U.S.G.S. Whitney Island South and Bee Bayou, Louisiana Quadrangle Maps, 1999/2000 NASA LandSat Color photograph and 2004 color aerial photograph of the subject property; **II**) copies of the property site map showing the location of the wetland and “other waters of the United States,” Global Positioning System (GPS) waypoint locations and wetland data point locations; **III**) completed copies of the Data Forms for Routine Wetland Determination from the 1987 Corps of Engineers’ *Wetlands Delineation Manual*, including field notes; **IV**) a copy of the Richland Parish, Louisiana Soils Survey Map and related information; and **V**) photographs of selected property features.

METHODOLOGY

The overall goal of this project was to complete a comprehensive property review and assessment of all appropriate wetland features associated within the boundaries of the proposed Northeast Louisiana Economic Alliance – Franklin Farm Mega Site. The primary project scope was the delineation and determination of wetland areas associated with the property. A secondary project scope included obtaining concurrence of the wetland determination by the Regulatory Program of the U.S. Army Corps of Engineers (COE), Vicksburg District.

The initial phase of the project included assimilation of all available information related to the property that would help establish a historical perspective of the property and surrounding area, as well as to highlight the physical attributes of the property, the primary drainage patterns and the physical location of the suspected wetland areas and “other waters of the United States” present on the property. An integral component of this phase was the review of the 1999/2000 NASA LandSat color photograph and the 2004 color aerial photographic coverage of the subject property ([Appendix I](#)). Review of the U.S.G.S. topographic maps and the Richland Parish, Louisiana soil survey maps were also included as a part of this phase, as well as interviews with persons knowledgeable of the subject property.

Once the key physical aspects of the property were identified, a field review and assessment was conducted to identify the habitat or land use types present. A primary focus of this initial field assessment was to verify the presence of the primary drainages and other potential wetland areas identified from the aerial photographs and topographic maps covering the subject property.

The initial field review revealed that the property was primarily an upland site with a predominant open field habitat type interspersed with minor occurrences of forested habitats throughout. The significance of the open field upland habitat is primarily utilized for agricultural row crop purposes with the remaining portions of the site occupied by a bottomland hardwood forested complex type. The field assessment completed on the subject property revealed segment of four (4) Relatively Permanent Waters (RPW) with “Typical Year Round” flows and segments of two (2) RPW with “Seasonal” flows traversing portions of the subject property. The primary RPW with “Typical Year Round” flows includes West Fork Creek identified dissecting the central portion of the subject property. In addition, the field assessment revealed segments of three (3) Non-RPW’s transecting portions of the subject property and one (1) open water pond habitat within the eastern portion of the site. The presence of the primary, secondary drainages and open water habitat would be considered as “other waters of the United States” based upon the current COE regulatory framework.

The field assessment completed covering the project site further revealed the presence of a forested wetland complex and herbaceous wetland complex each adjacent and/or abutting the presence of the primary and secondary drainages previously described.

Given the predominant upland and open field characteristics of the subject property, systematic transect lines were not employed in the field delineation methodology. Rather, wetland data points were established as verification of the known and/or suspected jurisdictional wetland areas or “other waters of the United States”, and to confirm the presence of the primary upland open field habitat. A mapping system was employed whereby all the wetland habitats/boundaries and “other waters of the United States” were mapped on a property site map. The specific location of these wetland habitats/boundaries and “other waters of the United States” were verified on the site topographic maps and the 2004 color aerial photography.

Wetland delineation points were established using a systematic approach based upon spacing between points, observations of vegetative and topographic features, and transitions that were encountered in the field. The delineation points were spaced to insure adequate coverage of each of the predominant habitat types and the different habitat types within each of the predominant types. In some cases, as needed, wetland delineation points were randomly established at wetland/upland transitions that were encountered or to rule out observed characteristics, to help validate the data within the open field and forested uplands, and to aid in the field mapping of the wetland areas and “other waters of the United States”. A total of twenty-three (23) points were identified throughout the project site. In addition, supplemental points were established between the delineation points to provide data on soils, vegetation and hydrology.

As wetland transition zones and/or boundaries were encountered throughout the property, the mapping effort was enhanced through the gathering of compass bearings and distances relative to wetland juxtaposition. Wetland delineation points were identified utilizing the Global Positioning System (GPS), and their location established on the site map relative to the GPS coordinates. The wetland transition zones and/or boundaries were then investigated and their position within the property was established and mapped accordingly. The in-field mapping was justified to the 2004 color aerial photograph utilizing accepted photo interpretation methods.

At each delineation point, specific observations and determinations were made using accepted U.S. Army Corps of Engineers’ techniques for the delineation of wetland habitats and/or boundaries [Environmental Laboratory, 1987, Corps of Engineers’ *Wetlands Delineation Manual* (and Supplemental Guidance), Technical Report Y-87-1, U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mississippi]. Soil samples were taken using either a soil probe or hand auger to a minimum depth of twelve (12) inches. Munsell Color Charts were used to reference soil matrix, mottle and hue. In addition, representative vegetative characteristics in the general locale of each point were identified and recorded. Hydrologic characteristics were noted at each plot location and a determination was made in the field as to whether or not the area was an upland or wetland area. All observations were documented on the “Data Form – Routine Wetland Determination” from the referenced 1987 Corps of Engineers’ *Wetlands Delineation Manual*.

Site maps depicting the location of the jurisdictional wetland areas, “other waters of the United States,” other upland habitats and/or land use types determined to be present on

the property and the location of the wetland delineation points are included as **Appendix II**. Copies of the data forms completed for each plot are also included as **Appendix III**.

SITE DESCRIPTION AND ECOLOGICAL PROGRESSION

The proposed Northeast Louisiana Economic Alliance – Franklin Farm Mega Site Property which has heretofore been described according to physical and geographic location is hereinafter described according to wetland classification, disturbance patterns, wetland quality and soils. Descriptions will be in general terms, and without specific chronology.

WETLAND CLASSIFICATIONS: Wetlands are typically defined by plants, soils and frequency and duration of flooding. The term “system” is used to describe the broad complex of interrelated components that define the ecological limits of a particular ecosystem. The subject property can best be described as a Palustrine System with Class/Subclass associates of forested and herbaceous wetlands with non-wetland and transitional open field and forested uplands. The principal drainage through the project site is maintained through West Fork Creek being considered as an RPW as well as secondary RPW’s dissecting the limits of the Franklin Farm Mega Site Property. In general, storm water runoff flows to the south through West Fork Creek and unnamed tributaries of Hurricane Bayou.

Relatively Permanent Waters (RPW) with “Typical Year Round” Flows – RPW with “Typical Year Round” flows serve as the primary source of storm water runoff relief from within the boundaries of the subject property. The primary stream channel present within the site is West Fork Creek, dissecting the property in generally an east to west orientation. Other primary stream channels are unnamed tributaries of Hurricane Bayou, located to the south of the subject property. The site reconnaissance revealed the presence of West Fork Creek and segments of three (3) additional RPW with “Typical Year Round” flows present within the subject property. These streams may be characterized by well defined channels and the overall lack of any significant vegetative components within the stream channel. In some instances, hydrophytic vegetative components has established within the banks of the stream channel. This is due primarily from beaver activity within the stream disrupting the natural flows of the channel. RPW with “Typical Year Round” flows exhibit typical year round flows or perennial flows. The presence of the RPW with “Typical Year Round” flows identified within the limits of the project site would be considered as “other waters of the United States.”

The soils matrix color within the RPW with “Typical Year Round” flows was observed as a 5/1 - 6/1 (gray) on the 10YR Munsell Soil Color chart with limited amounts of soil mottling present within the stream channels.

Relatively Permanent Waters (RPW) with “Seasonal” Flows – RPW with “Seasonal” flows are associated with the presence of the RPW with “Typical Year Round” flows identified within the project site and surrounding areas each aribiting in the storm water runoff relief through the interior portions of the site. The site reconnaissance revealed the presence of two (2) RPW with “Seasonal” flows present within the subject property. The RPW with “Seasonal” flows may

be characterized by well defined stream channels with the overall lack of significant vegetative components within the channel. More specifically, these stream channels exhibit seasonal flows or intermittent flows. For the most part, these stream channels transect the open agricultural fields being utilized for storm water runoff relief. As a result, these drainages have been maintained through the course of the years as a part of the historic land use as agricultural row crop production. The presence of the RPW with “Seasonal” flows identified within the limits of the project site would be considered as “other waters of the United States.”

The soils matrix color within the RPW with “Seasonal” flows ranges from a 5/1 - 6/1 (gray) to 5/2 (grayish brown) on the 10YR Munsell Soil Color chart. There is a soil mottle present (~15% - 45%) with a soil mottle color ranging from 4/3 - 5/3 (brown) to 5/6 (yellowish brown) on the 10YR chart.

Non-Relatively Permanent Waters (Non-RPW) – The field reconnaissance revealed segments of three (3) Non-RPW streams dissecting portions of the subject property. These secondary drainages are directly associated with the RPW with “Typical Year Round” flows and the RPW with “Seasonal” flows, previously discussed. Similarly to the RPW with “Seasonal” flows, these secondary drainages are primarily utilized for storm water runoff relief through the interior portions of the subject property. In some cases, these drainages have been constructed through the open agricultural fields to capture storm water runoff through the interior portions of the property. These stream channels may be characterized by shallow stream channels with the overall lack of significant vegetative components within the channel. The site reconnaissance further revealed that this drainage provides a source of surface storm water relief for a short duration after precipitation events in a typical year. Furthermore, runoff from rainfall is the primary source of water flow for the drain channels with no apparent ground water recharge. In addition, the soils and vegetative components along the top banks of the ephemeral drainage ditch are upland in nature.

Open Water Impoundment – One (1) open water impoundment habitat was identified within the central portion of the subject property. This open water habitat is located to the north of Burns Road and along the west boundary of West Fork Creek. The site reconnaissance revealed that this open water habitat was excavated for borrow purposes. However, this habitat is associated with the presence of West Fork Creek and an abutting forested wetland habitat. As a result, this open water habitat would be considered as jurisdictional waters.

Forested Wetland Abutting a Relatively Permanent Water (RPW)- As discussed, the Franklin Farm Mega Site is predominantly occupied by an open field habitat type that has historically been utilized for agricultural row crop production purposes. The field reconnaissance confirmed the presence of a forested wetland fringe habitat abutting either bank of West Fork Creek and its associated RPW dissecting the interior portions of the subject property. In

addition, a forested wetland habitat was identified within the southern portion of the site abutting and/or adjacent to an RPW. Characteristics exhibited include saturation in upper 12 inches, inundation and a predominant hydrophytic plant community throughout. The primary vegetative components include willow oak (*Quercus phellos*), green ash (*Fraxinus pennsylvanica*), red maple (*Acer rubrum*), American elm (*Ulmus Americana*) and overcup oak (*Quercus lyrata*) with several facultative wetland and obligate plant species throughout the understory stratum.

The soils matrix colors within the forested wetland habitat range from a 4/1 (dark gray), 5/1 - 6/1 (gray) to a 5/2 (grayish brown) on the 10YR Munsell Soil Color chart. There is a soil mottle (~25%) with a soil mottle color ranging from 4/3 - 5/3 (brown) present within these areas. Hydrologic indicators present include water stained leaves, swell butted trees, water marks and oxidized root channels in the upper 12 inches.

Herbaceous Wetland Abutting a Relatively Permanent Water (RPW) – As discussed, the Franklin Farm Mega Site is transected by a segment of West Fork Creek. This stream segment transects a predominant open field habitat type within the central and southern portions of the subject property. The field reconnaissance revealed the presence of an herbaceous wetland habitat or fringe habitat along either bank of the primary stream channel. The characteristics exhibited within the wetland habitats include saturation within the upper 12 inches and the presence of facultative wetland and obligate plant species throughout.

The soil matrix color within the herbaceous wetland areas ranges from a 5/2 (grayish brown), 6/2 (light brownish gray) to 6/3 (pale brown) on the 10YR Munsell Soil Color chart. There is a significant soil mottling present (~10% - 15%) with a soil mottle color ranging from 3/2 (very dark grayish brown), 5/2 (grayish brown) to 4/3 – 5/3 (brown) on the 10YR soil color chart. Hydrologic indicators within these areas include soil saturation in the upper 12 inches and drainage patterns in wetlands.

Non-Wetland and Transitional Forested and Open Field Uplands – The subject property is predominantly occupied by an open field upland habitat type that has historically been utilized for agricultural row crop production purposes. For the most part, the forested habitats are contained along primary and secondary drainages transecting the subject property. However, the significance of the site is occupied by an open field habitat type intensively managed for agricultural purposes.

Based upon coordination efforts with the Rayville, Louisiana, U.S.D.A. Natural Resources Conservation Service (NRCS), the property contains soils that would be considered as prime farmland soils. The site however, has been used for agricultural production purposes for as long as apparent records show. In addition, the significance of the open agricultural fields are considered as “Prior Converted Cropland” (PC). PC is defined by the Soil Conservation Service (Section 512.15 of the National Food Security Act Manual, August 1988) as

wetlands which were both manipulated (drained or otherwise physically altered to remove excess water from the land) and cropped before 23 December 1985, to the extent that they no longer exhibit important wetland values.

The normal circumstances for PC croplands generally do not support a prevalence of hydrophytic vegetative components and as such are not subject to regulation under Section 404 of the Clean Water Act. In most cases, because of the magnitude of hydrological alterations that have most often occurred on PC croplands, such cropland minimally if at all, meet the hydrology requirements as described within the 1987 Corps of Engineers' *Wetlands Delineation Manual*. Given this, "waters of the U.S." do not include PC cropland. Notwithstanding the determination of an area's status as PC cropland by any other Federal Agency, for the purpose of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA.

If PC cropland is abandoned (512.17 National Food Security Act Manual as amended, June 1990) and wetland conditions return, then the area will be subject to regulation under Section 404 of the Clean Water Act. An area will be considered abandoned if for five (5) consecutive years there has been no cropping, management or maintenance activities related to agricultural production. In this case, positive indicators of all mandatory wetlands criteria, including hydrophytic vegetation, hydrology and hydric soils must be observed.

Disturbance Patterns –The Franklin Farm Mega Site is bordered along the east boundary via Highway 183, along the west boundary via Jagers Lane and along the north boundary via Smalling Road. The site is also transected via Burns and Wade Road. As mentioned, the site is predominantly occupied by an open field habitat with little associated disturbances within the property. Minor disturbances are found within the stream bottoms and fringe areas as a result of land management activities. However, the primary streams have been left relatively undisturbed allowing the natural drainage pattern of the property to continue.

Wetland Quality – While some quality wetland functions occur within the subject property, associated natural processes could seemingly contraindicate any description as a "flow through" wetland system. For the most part, the wetland functions on the property are related to the storm water flows through the Relatively Permanent Waters (RPW's) transecting the property. Certainly, significant ground water recharge occurs within this site, and it is suspected that a certain amount of water quality enhancement, via filtration, also occurs. The subject property is not in a geographic location for primary aquifer recharge.

Soils – The subject property is located in what is referred to as the Forestdale-Perry Soils Association. This association consists of poorly drained, level soils that are rarely flooded. They formed in loamy and clayey alluvium. The subject property is also located in what is referred to as the Gilbert-Necessity-Egypt Soils Association. These soils are poorly drained and somewhat poorly drained soils that are level to gently undulating soils. These soils formed in thin loess and in the underlying loamy sediments.

The more commonly occurring soils identified within the property are what are referred to as the Deerford silt loams. These soils are nearly level and somewhat poorly drained. It is on broad flats on terraces. Another commonly occurring soil type is the Dexter silt loams. These soils are very gently sloping with 1 to 3 percent slopes that are well drained. They are on long narrow, convex ridges on terraces. Individual areas range from 10 to 100 acres in size. Another commonly occurring soil type is the Foley silt loams. These soils are level and poorly drained soils on broad flats and in depressions located on terraces. It is subject to rare flooding events. Individual areas are irregular in shape and range from 15 to 80 acres in size. Slopes are dominantly less than 1 percent.

Another commonly occurring soil type is the Forestdale silty clay loam. These soils are level and poorly drained soils in depressions on the alluvial plans of streams and small drainageways that drain the terraces. These soils are subject to rare flooding. Individual areas are irregular in shape and range from about 10 to 500 acres in size. Slopes are mainly less than 1 percent. The Giger silt loams are also identified within the subject property. These soils are very gently sloping with slopes from 1 to 3 percent. These soils are moderately well drained. They are located on low ridges on terraces. Individual areas are long and narrow and range from 10 to 150 acres in size. Another commonly occurring soil type is the Gilbert silt loam. These soils are level and poorly drained soils located on broad flats and in depressions along drainageways on terraces. It is subject to rare flooding. Individual areas are irregular in shape and range from 10 to 300 acres in size. Slopes are less than 1 percent. The Necessity silt loams are also identified within the limits of the subject property. These soils are very gently sloping with slopes ranging from 1 to 3 percent. They are somewhat poorly drained located on low ridges and knolls on terraces. Individual areas are irregular in shape and range from 20 to 200 acres in size.

Copies of the Richland Parish, Louisiana Soil Survey Maps covering the subject property are included in [Appendix IV](#).

FINDINGS AND CONCLUSIONS

From the historic review and wetland assessment completed on the subject property, it is concluded that the property is generally representative of the geographic area in which it is located. The topography of the site is very similar in nature to the adjoining property and the overall geographic area in which it is located.

The property is located within an area that has historically been rural in nature. The past land use activities have been primarily for agricultural row crop production purposes. Given this, intensive land management activities have been prevalent on the site.

The property is predominantly occupied by an upland open field habitat interspersed with forested habitats throughout. The principal drainage through the property is maintained through segments of four (4) RPW with “Typical Year Round” flows and two (2) RPW with “Seasonal” flows transecting the Franklin Farm Mega Site Property. The primary and secondary drainages present on the property are considered as “other waters of the United States.” The preponderance of the jurisdictional wetland areas found on the property are “other waters of the United States” and are associated with the presence of the principal drainages throughout the site.

Based upon field investigations, it is determined that approximately 1,383.59 acres of the property is classified as upland (non-wetland) habitat. It was further determined that approximately 12.45 acres (~25,126 Linear Feet) are contained within the RPW with “Typical Year Round” flows, approximately 0.98 acres (~2,000 Linear Feet) are contained within the RPW with “Seasonal” flows, approximately 0.63 acres are contained within the Non-RPW and approximately 0.99 acres are contained within the non-isolated impoundment, all of which would be considered as “other waters of the United States.” In addition, approximately 34.53 acres are contained within the forested wetland habitat and approximately 6.83 acres are contained within the herbaceous wetland habitat. Given this, it is determined that a total of approximately 56.41 acres of jurisdictional wetlands and “other waters of the United States” are present on the property. With a total land area of approximately 1,440.00 acres, this relates to an approximately 96% upland to 4% jurisdictional wetland and “other waters of the United States” mix (approximately 25:1 upland to wetland ratio).

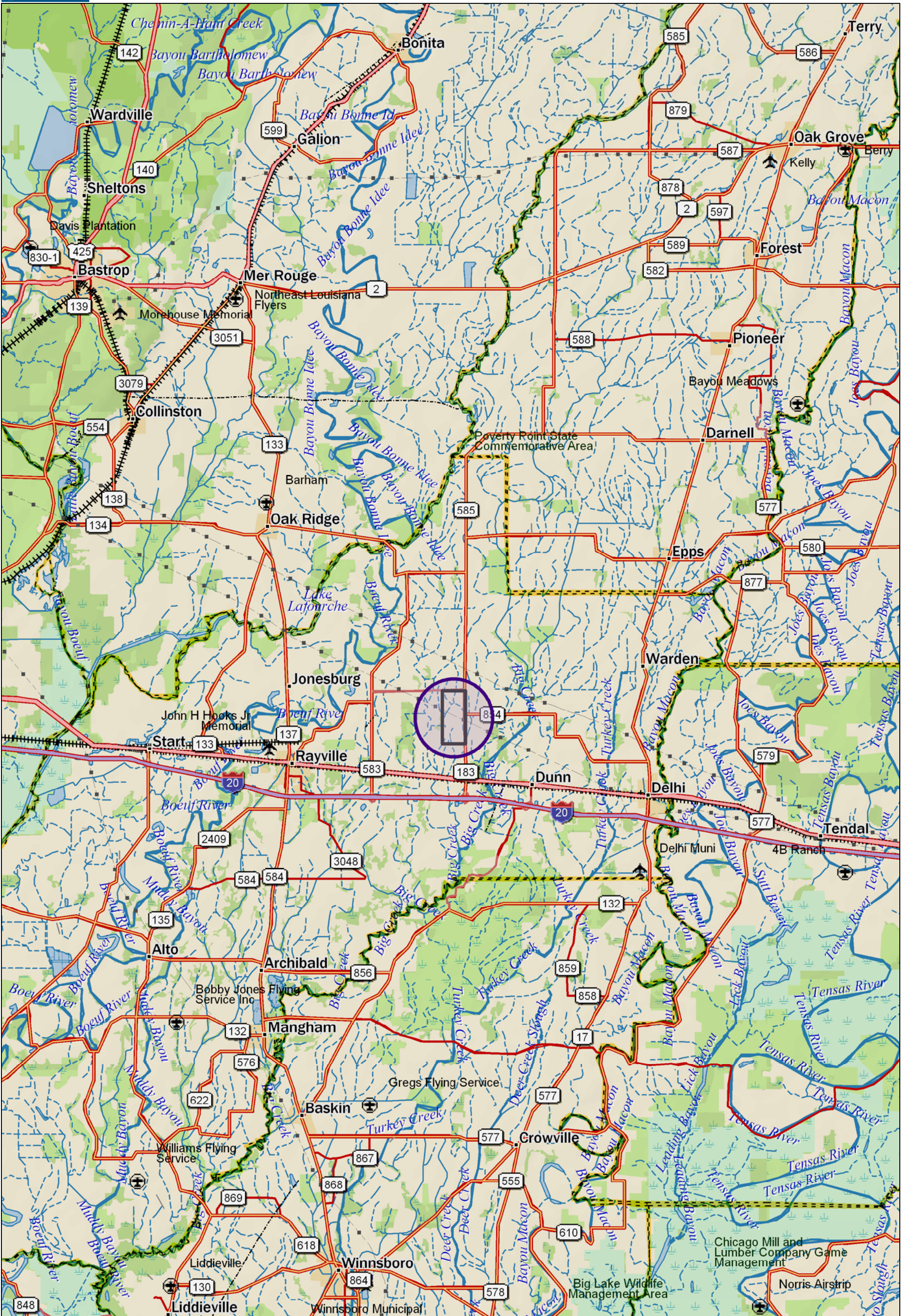
The following is an account of the different habitat types that were found to be present on the subject property:

Forested and Open Field Uplands	1,383.59 Acres
RPW with “Typical Year Round” Flows (“Other waters of the U.S.”).....	12.45 Acres (~25,126 LF)
RPW with “Seasonal” Flows	

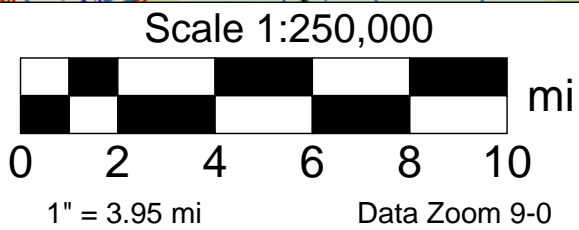
("Other waters of the U.S.").....	0.98 Acres (~2,000 LF)
Non-RPW	0.63 Acres
Forested Wetlands	34.53 Acres
Herbaceous Wetlands	6.83 Acres
Non-Isolated Impoundment.....	0.99 Acres
TOTAL.....	1,440.00 Acres

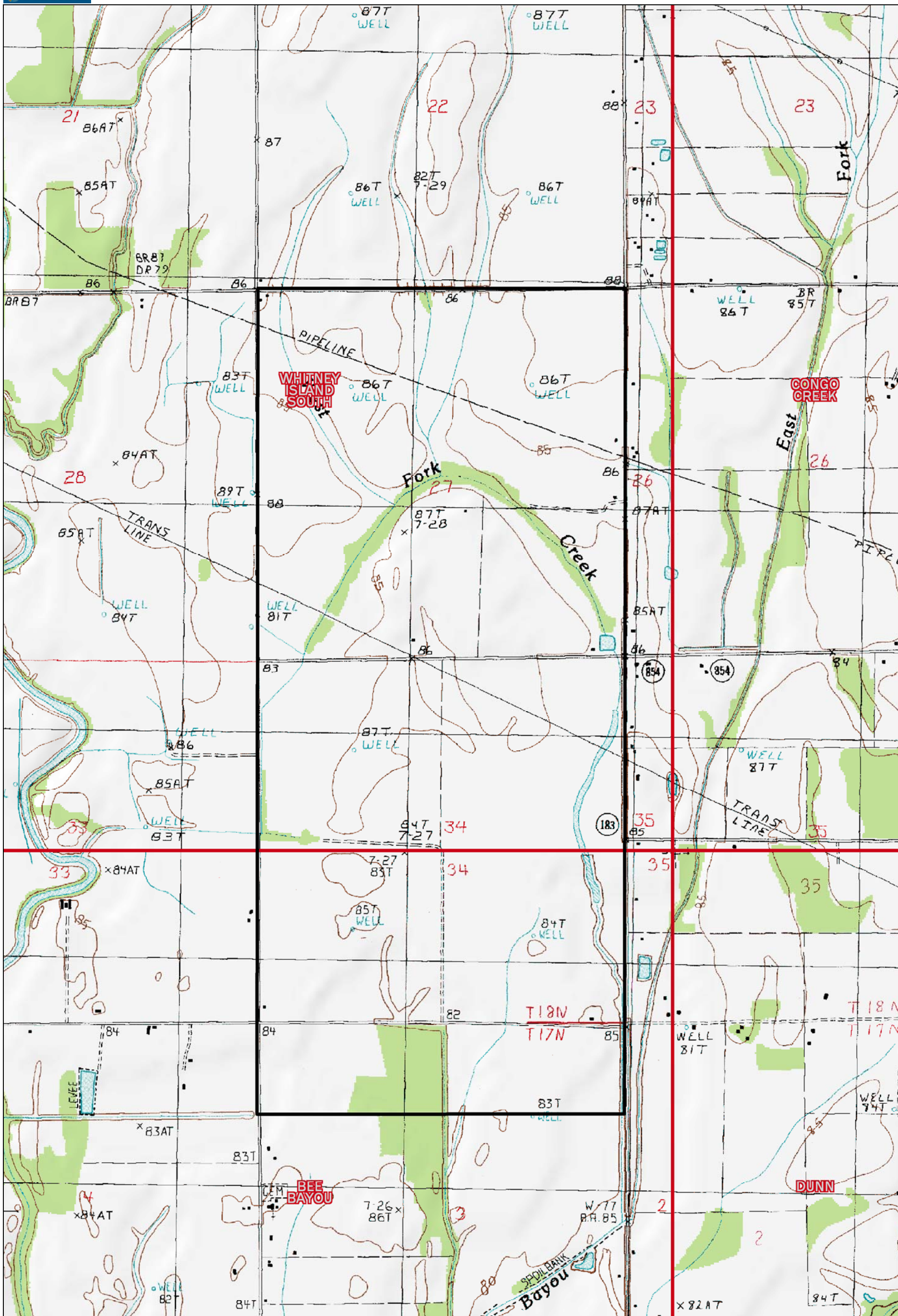
APPENDIX I

- **Richland Parish, Louisiana General Highway Map**
- **U.S.G.S. Whitney Island South and Bee Bayou, Louisiana
Quadrangle Site Maps**
- **1999/2000 NASA Land Sat Color Photograph**
- **2004 Aerial Color Photograph**

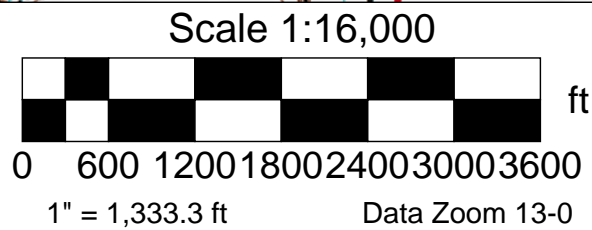


Northeast Louisiana Economic Alliance
 Franklin Farm Mega Site
 Richland Parish, Louisiana
 General Location Map





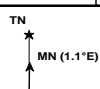
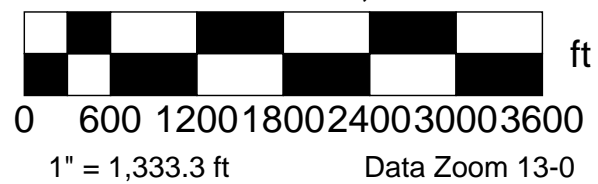
Northeast Louisiana Economic Alliance
 Franklin Farm Mega Site
 Richland Parish, Louisiana
 U.S.G.S. Whitney Island South & Bee Bayou, Louisiana
 Quadrangle Map

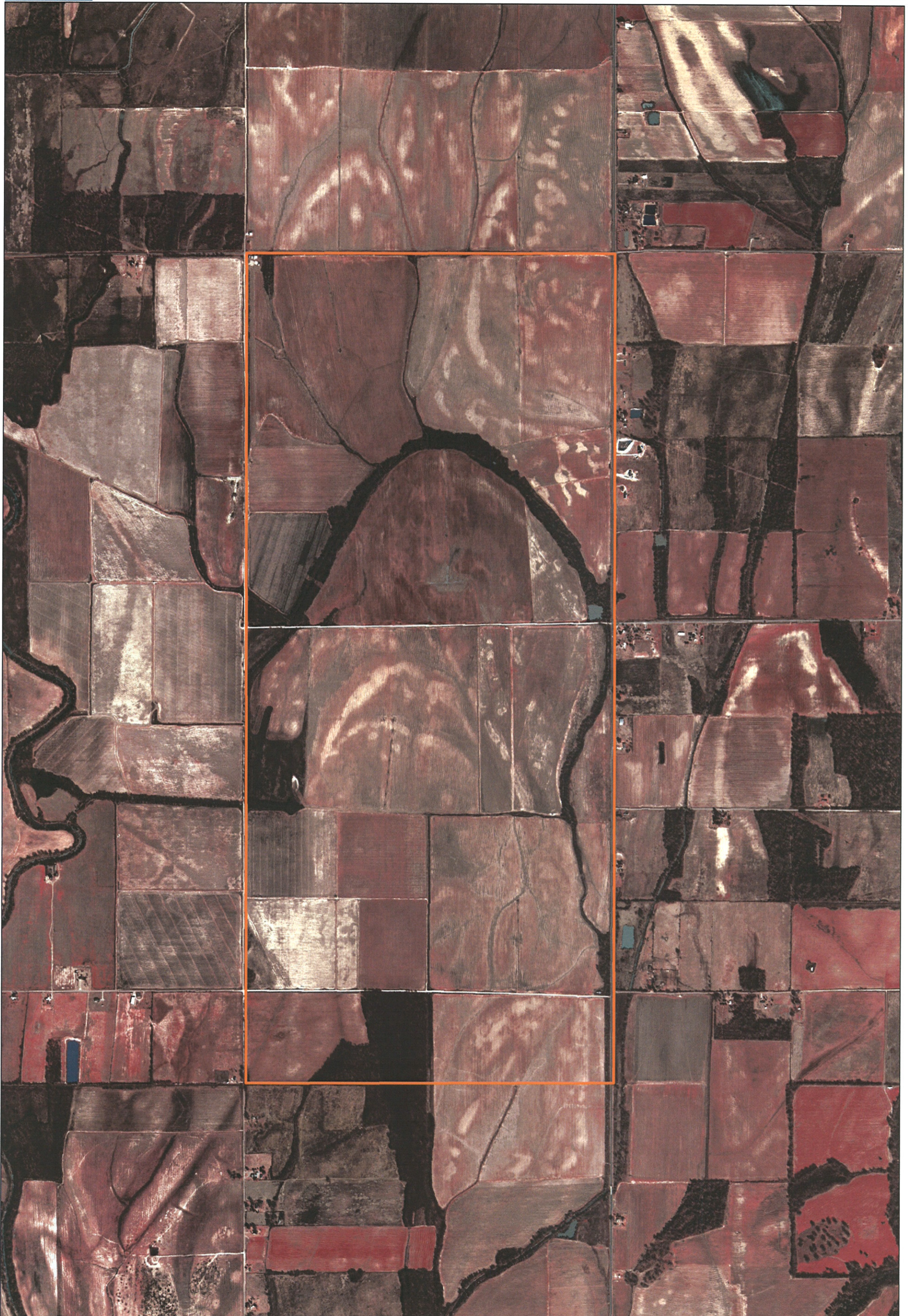




Northeast Louisiana Economic Alliance
 Franklin Farm Mega Site
 Richland Parish, Louisiana
 1999-2000 NASA LandSat Color Photo

Scale 1:16,000



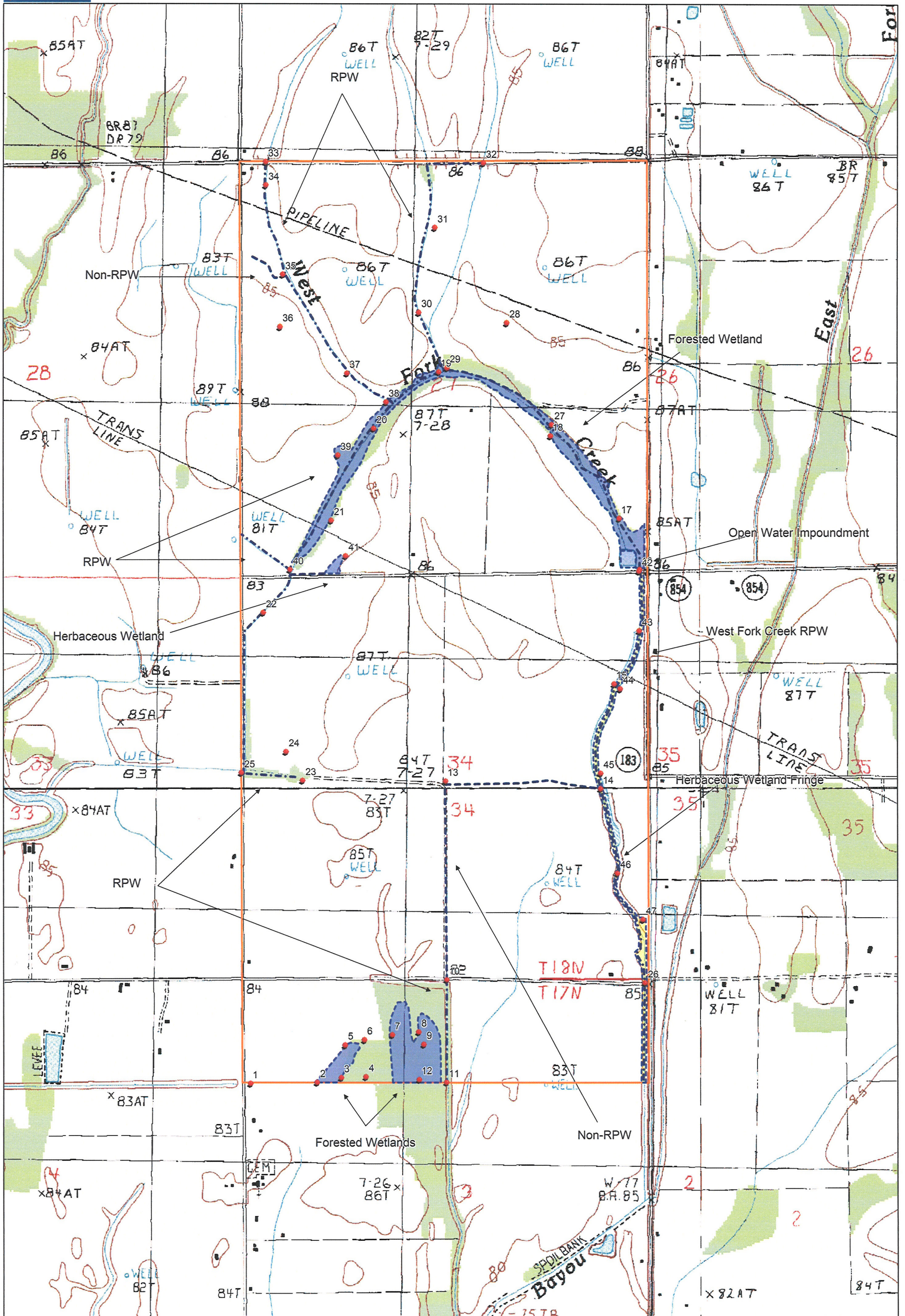


Northeast Louisiana Economic Alliance
 Franklin Farm Mega Site
 Richland Parish, Louisiana
 2004 Aerial Photograph

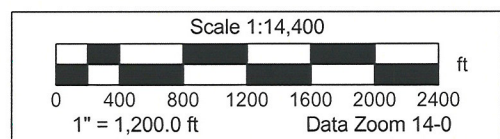


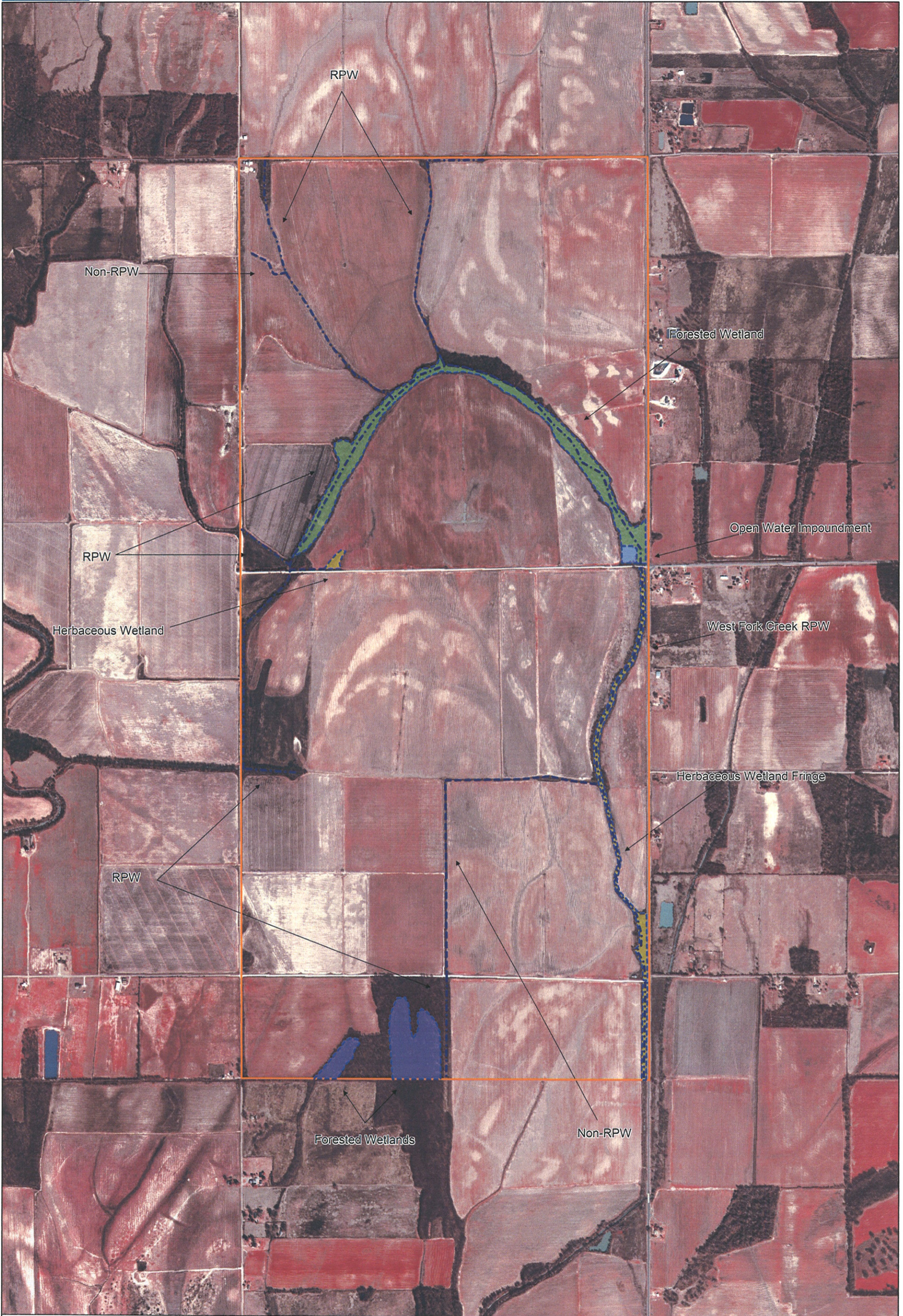
APPENDIX II

- **U.S.G.S. Whitney Island South and Bee Bayou, LA
Quadrangle Maps Depicting Wetland Areas, Wetland
Delineation Data Points and GPS Waypoints**
- **2004 Aerial Color Photograph Depicting Wetland Areas**

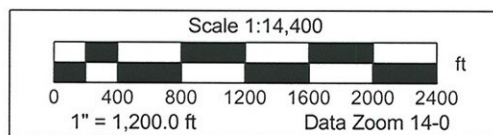


Northeast Louisiana Economic Alliance
 Franklin Farm Mega Site
 Richland Parish, Louisiana
 GPS/Wetland Location Map





Northeast Louisiana Economic Alliance
 Franklin Farm Mega Site
 Richland Parish, Louisiana
 Wetland Location Map



APPENDIX III

- Wetland Data Forms

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTSI</u>	Date: <u>1-3-08</u> County: <u>Richland</u> State: <u>LA</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID : _____ Transect ID: <u>1.0</u> Plot ID: <u>1.1</u>

VEGETATION

WPI

forested upland

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Celtis laevigata</u>	<u>OS</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Gleditsia triacanthos</u>	<u>OS/US</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Quercus stellata</u>	<u>OS</u>	<u>FACU</u>	11. _____	_____	_____
4. <u>Carya illinoensis</u>	<u>OS</u>	<u>FAC+</u>	12. _____	_____	_____
5. <u>Ligustrum sinense</u>	<u>US</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Smilax rotundifolia</u>	<u>US</u>	<u>FAC</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 5/6 = 83%

Remarks: Field only

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test (1) <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>0.1 ft</u> (in.) Depth to Free Water in Pit: <u>>12"</u> (in.) Depth to Saturated Soil: <u>>12"</u> (in.)	
Remarks: <u>no hydrology present</u>	

SOILS

Map Unit Name
(Series and Phase): Gilbert-Egypt silt loams, gently undulating Drainage Class: _____
 Field Observations
 Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>12"</u>	<u>B</u>	<u>4/3 10YR</u>	<u>4/4 10-12</u>	<u>1S3</u>	<u>clay loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Hydric Soils Present? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Remarks: <u>upland sample.</u>	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTSE</u>	Date: <u>1-3-03</u> County: <u>Richland</u> State: <u>LA</u>								
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Yes</td> <td style="text-align: center;">No</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td style="text-align: center;">Yes</td> <td style="text-align: center;">No</td> </tr> <tr> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input checked="" type="radio"/></td> </tr> </table>	Yes	No	<input checked="" type="radio"/>	<input type="radio"/>	Yes	No	<input type="radio"/>	<input checked="" type="radio"/>
Yes	No								
<input checked="" type="radio"/>	<input type="radio"/>								
Yes	No								
<input type="radio"/>	<input checked="" type="radio"/>								
Community ID : _____ Transect ID: <u>1.0</u> Plot ID: <u>1.2</u>									

VEGETATION

WF2

forested wetland

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Fraxinus pennsylvanica</u>	<u>OS</u>	<u>FACW</u>	9. <u>Quercus lyrata</u>	<u>US</u>	<u>OBL</u>
2. <u>Acer negundo</u>	<u>OS</u>	<u>FACW</u>	10. <u>Ilex decidua</u>	<u>US</u>	<u>FACW-</u>
3. <u>Quercus phellos</u>	<u>OS</u>	<u>FACW-</u>	11. _____	_____	_____
4. <u>Smilax rotundifolia</u>	<u>US</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Lonicera japonica</u>	<u>US</u>	<u>FAC-</u>	13. _____	_____	_____
6. <u>Campsis radicans</u>	<u>US</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Carya illinoensis</u>	<u>US</u>	<u>FACT</u>	15. _____	_____	_____
8. <u>Sabal minor</u>	<u>US</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 9/10 = 90%

Remarks: typical vegetation throughout

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>1"</u> (in.) Depth to Free Water in Pit: <u>@ surface</u> (in.) Depth to Saturated Soil: <u>@ surface</u> (in.)	Remarks: <u>within forested habitat.</u>

SOILS

Map Unit Name
 (Series and Phase): Gilbert-Egypt silt loams, gently undulating

Taxonomy (Subgroup): _____

Drainage Class: _____
 Field Observations
 Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	4/1 10YR	4/4 10YR	15%	clay loam
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:

low chroma soil colors.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks: <u>bordered wetland</u>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTSL</u>	Date: <u>1-3-08</u> County: <u>Richland</u> State: <u>LA</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID : _____ Transect ID: <u>10</u> Plot ID: <u>1.3</u>

VEGETATION

WP3

Transitional

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Juniperus virginiana</u>	<u>OS</u>	<u>FACU-</u>	9. <u>Lonicera japonica</u>	<u>US</u>	<u>FAC-</u>
2. <u>Quercus pagoda</u>	<u>OS/MS</u>	<u>FAC+</u>	10. <u>Prunus serotina</u>	<u>US</u>	<u>FACU</u>
3. <u>Quercus phellos</u>	<u>OS</u>	<u>FACW-</u>	11. _____	_____	_____
4. <u>Quercus lyrata</u>	<u>OS</u>	<u>OBL</u>	12. _____	_____	_____
5. <u>Quercus nigra</u>	<u>OS</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Carya illinoensis</u>	<u>OS</u>	<u>FAC+</u>	14. _____	_____	_____
7. <u>Ulmus americana</u>	<u>OS/US</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Sabal minor</u>	<u>US</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 7/10 = 70%

Remarks: Transitional habitat.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>10/12</u> (in.) Depth to Free Water in Pit: <u>>12"</u> (in.) Depth to Saturated Soil: <u>>12"</u> (in.)	Remarks: <u>No hydrology present.</u>

SOILS

Map Unit Name
(Series and Phase): Gilbert-Egypt silt loams, gently undulating

Taxonomy (Subgroup): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	5/4 10YR			
24"	B	5/3 10YR	5/6 10-12	15%	silty clay loam
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:
soils are transitional to upland

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTSI</u>	Date: <u>1-3-08</u> County: <u>Richland</u> State: <u>LA</u>						
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Yes <input checked="" type="radio"/></td> <td style="text-align: center;">No <input type="radio"/></td> </tr> <tr> <td style="text-align: center;">Yes <input type="radio"/></td> <td style="text-align: center;">No <input checked="" type="radio"/></td> </tr> <tr> <td style="text-align: center;">Yes <input type="radio"/></td> <td style="text-align: center;">No <input checked="" type="radio"/></td> </tr> </table>	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Yes <input type="radio"/>	No <input checked="" type="radio"/>
Yes <input checked="" type="radio"/>	No <input type="radio"/>						
Yes <input type="radio"/>	No <input checked="" type="radio"/>						
Yes <input type="radio"/>	No <input checked="" type="radio"/>						
Community ID : _____ Transect ID: <u>1.0</u> Plot ID: <u>1.4</u>							

VEGETATION

WP 7

forest/wetland

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Quercus phellos</u>	<u>OS/MS</u>	<u>FACW-</u>	9. _____	_____	_____
2. <u>Quercus lyrata</u>	<u>OS</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Celtis laevigata</u>	<u>MS</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Sabal minor</u>	<u>US</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Forestiera acuminata</u>	<u>US</u>	<u>OBL</u>	13. _____	_____	_____
6. <u>Ulmus crassifolia</u>	<u>US</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Smilax rotundifolia</u>	<u>US</u>	<u>FAC</u>	15. _____	_____	_____
8. <u>Ulmus americana</u>	<u>US</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks:

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: <i>forest/wetland</i> Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: <u>1" - pools</u> Depth of Surface Water: <u>0/0</u> (in.) Depth to Free Water in Pit: <u>> 2'</u> (in.) Depth to Saturated Soil: <u>@ surface</u> (in.)	Remarks:

SOILS

Map Unit Name
(Series and Phase): Gilbert silt loam

Taxonomy (Subgroup): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>12"</u>	<u>B</u>	<u>5/1 10YR</u>	<u>5/4 10YR</u>	<u>10%</u>	<u>clay loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks: <u>forested wetland</u>	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>'NELEA</u> Investigator: <u>WTSE</u>	Date: <u>1-3-08</u> County: <u>Richland</u> State: <u>LA</u>						
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	<table style="width:100%; border: none;"> <tr> <td style="text-align: center; border: none;"><input checked="" type="radio"/> Yes</td> <td style="text-align: center; border: none;"><input type="radio"/> No</td> </tr> <tr> <td style="text-align: center; border: none;"><input type="radio"/> Yes</td> <td style="text-align: center; border: none;"><input checked="" type="radio"/> No</td> </tr> <tr> <td style="text-align: center; border: none;"><input type="radio"/> Yes</td> <td style="text-align: center; border: none;"><input type="radio"/> No</td> </tr> </table>	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
<input checked="" type="radio"/> Yes	<input type="radio"/> No						
<input type="radio"/> Yes	<input checked="" type="radio"/> No						
<input type="radio"/> Yes	<input type="radio"/> No						
Community ID : _____ Transect ID: <u>1.0</u> Plot ID: <u>1.5</u>							

VEGETATION

WP-8 forested wetland

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Fraxinus pennsylvanica</u>	<u>OS</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Quercus phellos</u>	<u>OS</u>	<u>FACW-</u>	10. _____	_____	_____
3. <u>Quercus nigra</u>	<u>OS</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Liquidambar styraciflua</u>	<u>OS</u>	<u>FACT</u>	12. _____	_____	_____
5. <u>Celtis laevigata</u>	<u>MS</u>	<u>FACW</u>	13. _____	_____	_____
6. <u>Cornus foemina</u>	<u>US</u>	<u>FACW-</u>	14. _____	_____	_____
7. <u>Sabal minor</u>	<u>US</u>	<u>FACW</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: forested wetland habitat. transition to the north.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: forested wetland Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test 5:0 <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>0.1</u> (in.) Depth to Free Water in Pit: <u>>12"</u> (in.) Depth to Saturated Soil: <u>>12"</u> (in.)	Remarks:

SOILS

Map Unit Name (Series and Phase): Gilbert silt loam Drainage Class: _____
 Taxonomy (Subgroup): _____ Field Observations Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	5/2 10YR	4/6 10YR	15%	clay loam
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: sample point

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks: <u>Typical forested wetland sample</u>	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTSI</u>	Date: <u>1-3-08</u> County: <u>Richland</u> State: <u>LA</u>						
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><input checked="" type="radio"/> Yes</td> <td style="text-align: center;"><input type="radio"/> No</td> </tr> <tr> <td style="text-align: center;"><input type="radio"/> Yes</td> <td style="text-align: center;"><input checked="" type="radio"/> No</td> </tr> <tr> <td style="text-align: center;"><input type="radio"/> Yes</td> <td style="text-align: center;"><input type="radio"/> No</td> </tr> </table>	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
<input checked="" type="radio"/> Yes	<input type="radio"/> No						
<input type="radio"/> Yes	<input checked="" type="radio"/> No						
<input type="radio"/> Yes	<input type="radio"/> No						
Community ID : _____ Transect ID: <u>1.0</u> Plot ID: <u>1.6</u>							

VEGETATION

WP10

Forested upland

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Liquidambar styraciflua</u>	<u>OS</u>	<u>FAC+</u>	9. _____	_____	_____
2. <u>Quercus nigra</u>	<u>OS</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Melia azedarach</u>	<u>US</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Ulmus americana</u>	<u>US</u>	<u>FACW</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Typical vegetative components.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <u>1.0</u> <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>11A</u> (in.) Depth to Free Water in Pit: <u>>12"</u> (in.) Depth to Saturated Soil: <u>>12"</u> (in.)	Remarks: <u>no hydrology present</u>

SOILS

Map Unit Name
 (Series and Phase): Gibert-Egypt silt loam, gently undulating

Taxonomy (Subgroup): _____

Drainage Class: _____
 Field Observations
 Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>12"</u>	<u>B</u>	<u>5/3 10YR</u>	<u>4/4 10YR</u>	<u>35%</u>	<u>silty clay loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: soils are transitional to upland

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present? <input type="radio"/> Yes <input checked="" type="radio"/> No	(Circle)
Hydric Soils Present? <input type="radio"/> Yes <input checked="" type="radio"/> No	(Circle)
Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No	

Remarks: upland sample

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTJI</u>	Date: <u>1-3-08</u> County: <u>Richland</u> State: <u>LA</u>						
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Yes <input checked="" type="radio"/></td> <td style="text-align: center;">No <input type="radio"/></td> </tr> <tr> <td style="text-align: center;">Yes <input type="radio"/></td> <td style="text-align: center;">No <input checked="" type="radio"/></td> </tr> <tr> <td style="text-align: center;">Yes <input type="radio"/></td> <td style="text-align: center;">No <input checked="" type="radio"/></td> </tr> </table>	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Yes <input type="radio"/>	No <input checked="" type="radio"/>
Yes <input checked="" type="radio"/>	No <input type="radio"/>						
Yes <input type="radio"/>	No <input checked="" type="radio"/>						
Yes <input type="radio"/>	No <input checked="" type="radio"/>						
Community ID : _____ Transect ID: <u>1.0</u> Plot ID: <u>1.7</u>							

VEGETATION

WP 12

Forest 0 water 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Quercus lyrata</u>	<u>OS</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Liquidambar styraciflua</u>	<u>OS</u>	<u>FAC+</u>	10. _____	_____	_____
3. <u>Carya x lecontei</u>	<u>OS</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Quercus phellos</u>	<u>OS/US</u>	<u>FACW-</u>	12. _____	_____	_____
5. <u>Celtis laevigata</u>	<u>MS/US</u>	<u>FACW</u>	13. _____	_____	_____
6. <u>Sabal minor</u>	<u>US</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Acer rubrum</u>	<u>US</u>	<u>FAC</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).			<u>100%</u>		
Remarks:					

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test 57.0 <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>ND</u> (in.) Depth to Free Water in Pit: <u>>12"</u> (in.) Depth to Saturated Soil: <u>@ surface</u> (in.)	Remarks: <p style="text-align: center;"><u>saturation on surface</u></p>

SOILS

Map Unit Name
(Series and Phase): Gilbert silt loam

Taxonomy (Subgroup): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>24"</u>	<u>B</u>	<u>5/1 10YR</u>	<u>4/6 10YR</u>	<u>15%</u>	<u>clay loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: Low-chroma soil clay texture

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks: <u>forested wetland</u>	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTSI</u>	Date: <u>1-3-08</u> County: <u>Richland</u> State: <u>LA</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: _____ Transect ID: <u>10</u> Plot ID: <u>68</u>

VEGETATION

WP13 sample within
Drain.

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Rubus spp.</u>	<u>US</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>Verbena brasiliensis</u>	<u>US</u>	<u>FAC-</u>	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: vegetation throughout Drain.
Man-made Non-RPW

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: <u>Drain only</u> Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>1"</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: <u>Drain - Man-made dissecting fields.</u>

SOILS

Map Unit Name (Series and Phase): Gilbert-Egypt silt loams, gently undulating Drainage Class: _____
 Field Observations: _____
 Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	6/2 10YR	5/6 10YR	45%	silty clay loam
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: Soils are transitional. Located within field.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="radio"/> Yes <input checked="" type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	(Circle)
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sampling Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>

Remarks: Sample is within a non-RPUD Drain transecting open ag fields.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTJI</u>	Date: <u>1-3-08</u> County: <u>Richland</u> State: <u>LA</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: _____ Transect ID: <u>1.0</u> Plot ID: <u>1.9</u>

VEGETATION

WP14

Herbaceous fringe along Drain

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Ludwigia alterniflora</u>	<u>US</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Polygonum hydropiper</u>	<u>US</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Salix nigra</u>	<u>MS</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Juncus spp.</u>	<u>US</u>	<u>OBL</u>	12. _____	_____	_____
5. <u>Cephalanthus occidentalis</u>	<u>US</u>	<u>OBL</u>	13. _____	_____	_____
6. <u>Populus deltoides</u>	<u>US/MS</u>	<u>FAC+</u>	14. _____	_____	_____
7. <u>Fraxinus pennsylvanica</u>	<u>US</u>	<u>FACW</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: vegetation is through channel west fork Creek.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Herbaceous fringe Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>1"</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: <u>~20' wide Herbaceous fringe.</u>

SOILS

Map Unit Name
 (Series and Phase): Forestdale silty clay loam

Drainage Class: _____
 Field Observations
 Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	6/1 10-12	—	—	clay/oa
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: sample along edge of west Fork Creek.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	(Circle) Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks: <u>Herbaceous wetland fringe along either bank</u>	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NECEA</u> Investigator: <u>WTJI</u>	Date: <u>1-3-08</u> County: <u>Richland</u> State: <u>LA</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: _____ Transect ID: <u>10</u> Plot ID: <u>1.10</u>

VEGETATION

WPI6

Herbaceous
fringe

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Cyperus spp.</u>	<u>US</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Juncus spp.</u>	<u>US</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Salix nigra</u>	<u>MS</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Ludwigia peploides</u>	<u>US</u>	<u>OBL</u>	12. _____	_____	_____
5. <u>Cephalanthus occidentalis</u>	<u>US</u>	<u>OBL</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Herbaceous wetland fringe along west fork creek

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Herbaceous wetland Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>1"</u> (in.) Depth to Free Water in Pit: <u>@ surface</u> (in.) Depth to Saturated Soil: <u>@ surface</u> (in.)	Remarks: <u>sample along fringe area of creek</u>

SOILS

Map Unit Name
 (Series and Phase): Forestdale silty clay loam

Drainage Class: _____
 Field Observations
 Confirm Mapped Type? Yes No

Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	5/1 10-12	5/3 10-12	10%	clay loam
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No

Remarks:

Barbaceous wetland habitat along bank of west Fork Creek. fringe is maintained by farmers.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WT⁵I</u>	Date: <u>1-3-08</u> County: <u>Richland</u> State: <u>LA</u>						
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; border: none;"><input checked="" type="radio"/> Yes</td> <td style="text-align: center; border: none;"><input type="radio"/> No</td> </tr> <tr> <td style="text-align: center; border: none;"><input type="radio"/> Yes</td> <td style="text-align: center; border: none;"><input checked="" type="radio"/> No</td> </tr> <tr> <td style="text-align: center; border: none;"><input type="radio"/> Yes</td> <td style="text-align: center; border: none;"><input type="radio"/> No</td> </tr> </table>	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Yes	<input type="radio"/> No
<input checked="" type="radio"/> Yes	<input type="radio"/> No						
<input type="radio"/> Yes	<input checked="" type="radio"/> No						
<input type="radio"/> Yes	<input type="radio"/> No						
Community ID: _____ Transect ID: <u>10</u> Plot ID: <u>1.11</u>							

VEGETATION

WP 17

West Fork Creek

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Salix nigra</u>	<u>M5</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Ludwigia peploides</u>	<u>US</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Juncus spp.</u>	<u>US</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Cyperus spp.</u>	<u>US</u>	<u>OBL</u>	12. _____	_____	_____
5. <u>Cephalanthus occidentalis</u>	<u>US</u>	<u>OBL</u>	13. _____	_____	_____
6. <u>Ulmus thomasii</u>	<u>US</u>	<u>FAC</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: sample is within West Fork Creek

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: WFC Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>76"</u> (in.) Depth to Free Water in Pit: <u>@ surface</u> (in.) Depth to Saturated Soil: <u>@ surface</u> (in.)	Remarks:

SOILS

Map Unit Name
(Series and Phase): Forestdale, silty clay loam

Taxonomy (Subgroup): _____

Drainage Class: _____

Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	5/1 10YR	3/6 7.5YR	15%	clay loam
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks: sample is along edge of <u>WFC</u> forested wetland fringe along banks.	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTJI</u>	Date: <u>1-3-08</u> County: <u>Richland</u> State: <u>LA</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: _____ Transect ID: <u>1.0</u> Plot ID: <u>1.012</u>

VEGETATION

WP 18 forested wetland fringe

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Salix nigra</u>	<u>MS</u>	<u>OBL</u>	9. <u>Forestiera acuminata</u>	<u>US</u>	<u>OBL</u>
2. <u>Fraxinus pennsylvanica</u>	<u>OS</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Quercus lyrata</u>	<u>OS</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Quercus phellos</u>	<u>OS</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Cephalanthus occidentalis</u>	<u>US</u>	<u>OBL</u>	13. _____	_____	_____
6. <u>Celtis laevigata</u>	<u>MS</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Brunnichia ovata</u>	<u>US</u>	<u>OBL</u>	15. _____	_____	_____
8. <u>Campsis radicans</u>	<u>US</u>	<u>FAC</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: forested wetland fringe along banks of WFC.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: fringe Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>N/A</u> (in.) Depth to Free Water in Pit: <u>>12"</u> (in.) Depth to Saturated Soil: <u>@ surface</u> (in.)	Remarks: <u>fringe along banks of WFC</u>

SOILS

Map Unit Name
(Series and Phase): Forestdale silty clay loam

Taxonomy (Subgroup): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	5/1 10YR	4/3 10YR	10%	clay loam
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: Low-chroma soils.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks: <u>Forestal wetland habitat</u>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTST</u>	Date: <u>1-3-08</u> County: <u>Richland</u> State: <u>LA</u>				
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%; border: none;"> <input checked="" type="radio"/> Yes <input type="radio"/> No </td> <td style="text-align: center; width: 50%; border: none;"> <input type="radio"/> Yes <input checked="" type="radio"/> No </td> </tr> <tr> <td style="text-align: center; border: none;"> <input type="radio"/> Yes <input checked="" type="radio"/> No </td> <td style="text-align: center; border: none;"> <input type="radio"/> Yes <input checked="" type="radio"/> No </td> </tr> </table>	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No				
<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No				
Community ID: _____ Transect ID: <u>1.0</u> Plot ID: <u>1.13</u>					

VEGETATION

WP 21
Forested wetland fringe

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Fraxinus pennsylvanica</u>	<u>OS</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Quercus lyrata</u>	<u>OS</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Ulmus americana</u>	<u>MS</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Ligustrum sinense</u>	<u>US</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Sabal minor</u>	<u>US</u>	<u>FACW</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: *Typical vegetative components along bank of Creek*

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: <i>Forested wetland fringe</i> Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>2/10</u> (in.) Depth to Free Water in Pit: <u>>12"</u> (in.) Depth to Saturated Soil: <u>@ surface</u> (in.)	Remarks: <i>fringe along bank of Creek</i>

SOILS

Map Unit Name
(Series and Phase): Forestdale silty clay loam

Taxonomy (Subgroup): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	5/1 10YR	4/4 10YR	10%	clay loam
24"	B	5/2 10YR	4/4 10YR	10%	clay loam
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks: <p style="text-align: center;">Forestal wetland habitat along bank of creek</p>	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTS I</u>	Date: <u>1/3/08</u> County: <u>Richland</u> State: <u>La.</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID : _____ Transect ID: <u>1.0</u> Plot ID: <u>1.14</u>

VEGETATION

*forested water O fringe
WPT 27*

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Cephalanthus occidentalis</u>	<u>MS</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Gloditisa triacanthos</u>	<u>OS</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Fraxinus pennsylvanica</u>	<u>OS</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Quercus phellos</u>	<u>OS</u>	<u>FACW</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Typically vegetative components along bpl bank.

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated (<u>in pools</u>) <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>1"</u> (in.) Depth to Free Water in Pit: <u>@ surface</u> (in.) Depth to Saturated Soil: <u>@ surface</u> (in.)	Remarks: <u>old meanders of channel</u>

SOILS

Map Unit Name
(Series and Phase): Forestate silty clay loam

Taxonomy (Subgroup): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	4/1 10m	NA	NA	silty clay loam
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>MELEA</u> Investigator: <u>WTSE</u>	Date: <u>1/3/08</u> County: <u>Richard</u> State: <u>LA</u>						
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	<table style="width: 100%;"> <tr> <td style="text-align: center;">Yes <input checked="" type="radio"/></td> <td style="text-align: center;">No <input type="radio"/></td> </tr> <tr> <td style="text-align: center;">Yes <input type="radio"/></td> <td style="text-align: center;">No <input checked="" type="radio"/></td> </tr> <tr> <td style="text-align: center;">Yes <input type="radio"/></td> <td style="text-align: center;">No <input checked="" type="radio"/></td> </tr> </table>	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Yes <input type="radio"/>	No <input checked="" type="radio"/>
Yes <input checked="" type="radio"/>	No <input type="radio"/>						
Yes <input type="radio"/>	No <input checked="" type="radio"/>						
Yes <input type="radio"/>	No <input checked="" type="radio"/>						
Community ID : _____ Transect ID: <u>1.0</u> Plot ID: <u>1.015</u>							

VEGETATION

Agricultural Field

WT# 28

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. _____	_____	_____	9. _____	_____	_____
2. _____	_____	_____	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. <u>11/12</u>	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: *open agricultural field*

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>0.12</u> (in.) Depth to Free Water in Pit: <u>>12"</u> (in.) Depth to Saturated Soil: <u>>12"</u> (in.)	
Remarks: <i>no hydrology present</i>	

SOILS

Map Unit Name
(Series and Phase): Gilbert-Egypt silt loams, gently undulating Drainage Class: _____
Field Observations

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>24"</u>	<u>B</u>	<u>5/2 <i>moist</i></u>	<u>—</u>	<u>—</u>	<u>Clay texture</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: Soils are clay texture, manipulated via forming classified as PC

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> (Circle)	(Circle)
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> (Circle)	
Hydric Soils Present? Yes <input type="radio"/> No <input checked="" type="radio"/> (Circle)	Is this Sampling Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> (Circle)

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTSE</u>	Date: <u>1/3/08</u> County: <u>Richard</u> State: <u>LA</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: _____ Transect ID: <u>1.0</u> Plot ID: <u>1.6</u>

Forested wetland

1.1PT 29

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sabal minor</u>	<u>US</u>	<u>TACW</u>	9. _____	_____	_____
2. <u>Ulmus americana</u>	<u>MS</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Celtis laevigata</u>	<u>MS/OS</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Acerus lyrata</u>	<u>OS</u>	<u>OBS</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Typical forested wetland habitat along bank of wfe

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: forested wetland Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>ND</u> (in.) Depth to Free Water in Pit: <u>712'</u> (in.) Depth to Saturated Soil: <u>@ surface</u> (in.)	Remarks:

SOILS

Map Unit Name
 (Series and Phase): Forestdale silty clay loam

Taxonomy (Subgroup): _____

Drainage Class: _____

Field Observations
 Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>12"</u>	<u>B</u>	<u>4/1_{ow}</u>	<u>4/4₁₀12</u>	<u>10%</u>	<u>silty clay loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:
Low-chroma soil colors.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WFSJ</u>	Date: <u>1/3/08</u> County: <u>Richland</u> State: <u>LA</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID : _____ Transect ID: <u>1.0</u> Plot ID: <u>1.17</u>

VEGETATION

Drain
WFSJ

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. _____	_____	_____	9. _____	_____	_____
2. _____	_____	_____	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. <u>NA</u>	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: within planted Ag. field

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: <i>Drain</i> Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>2"</u> (in.) Depth to Free Water in Pit: <u>@ surface</u> (in.) Depth to Saturated Soil: <u>@ surface</u> (in.)	
Remarks: <u>RPO transecting open ag field.</u>	

SOILS

Map Unit Name
(Series and Phase): Forestdale silty clay loam

Taxonomy (Subgroup): _____

Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
24"	B	5/2	4/310R	106	Sandy Clay loam
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input checked="" type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:
soils within Drain
Top back within Ag. field
Drain is maintained.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="radio"/> Yes <input checked="" type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sampling Point Within a Wetland? <input type="radio"/> Yes <input checked="" type="radio"/> No

Remarks:
RPW low

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>N/ELEA</u> Investigator: <u>WJSE</u>	Date: <u>1/3/08</u> County: <u>Richard</u> State: <u>LA</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: _____ Transect ID: <u>1.0</u> Plot ID: <u>1.18</u>

VEGETATION

Top bank
WPT 33

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Rubus spp</u>	<u>US</u>	<u>FACV</u>	9. _____	_____	_____
2. <u>Carya illinoensis</u>	<u>OS</u>	<u>FAC+</u>	10. _____	_____	_____
3. <u>Platanus Occidentalis</u>	<u>OS</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Ulmus americana</u>	<u>OS</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Quercus phellos</u>	<u>OS</u>	<u>FACW</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 4/5 = 80%

Remarks: vegetation along top bank of Drain

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: forested habitat Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>1.5</u> (in.) Depth to Free Water in Pit: <u>>12"</u> (in.) Depth to Saturated Soil: <u>>12"</u> (in.)	
Remarks: <u>thin woodline along field edge</u>	

SOILS

Map Unit Name (Series and Phase): Forestate silty clay loam Drainage Class: _____
 Field Observations
 Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	5/3 10YR	4/3 10YR	25%	Silty Clay
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: soils are transitional.
located along top back of creek
at within field edge

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Hydric Soils Present? <input type="radio"/> Yes <input checked="" type="radio"/> No	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No

Remarks: sample is
transitional to upland.
located along top back of Drain / Ag field

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTSE</u>	Date: <u>11/3/08</u> County: <u>Richardson</u> State: <u>LA</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: _____ Transect ID: <u>10</u> Plot ID: <u>1019</u>

VEGETATION

Drain
WPT 30

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sorghum halepense</u>	<u>u.s.</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Baccharis halimifolia</u>		<u>FAC</u>	10. _____	_____	_____
3. <u>Cyperus spp.</u>	↓	<u>OBL</u>	11. _____	_____	_____
4. <u>Typha spp.</u>	↓	<u>OBL</u>	12. _____	_____	_____
5. <u>Sesbania mima</u>		<u>FAC</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 4/5 = 80%

Remarks: vegetation present within Drain

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Drain Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <u>2:1</u> <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>1-6"</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: <u>interconnection of Drains, show Drains for Ag field</u>

SOILS

Map Unit Name (Series and Phase): Forestdale silty clay loam Drainage Class: _____
 Taxonomy (Subgroup): _____ Field Observations Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>24</u>	<u>B</u>	<u>5/2 10yR</u>	<u>-</u>	<u>-</u>	<u>clay</u>
<u>12"</u>	<u>B</u>	<u>5/1 10yR</u>	<u>-</u>	<u>-</u>	<u>silty clay</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: soils are low-chroma

T.B.
w/in

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	

Remarks: considered as RPW
primary Drain Traversing open by field

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WISZ</u>	Date: <u>1/3/08</u> County: <u>Richland</u> State: <u>GA</u>						
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><input checked="" type="radio"/> Yes</td> <td style="text-align: center;"><input type="radio"/> No</td> </tr> <tr> <td style="text-align: center;"><input type="radio"/> Yes</td> <td style="text-align: center;"><input checked="" type="radio"/> No</td> </tr> <tr> <td style="text-align: center;"><input type="radio"/> Yes</td> <td style="text-align: center;"><input checked="" type="radio"/> No</td> </tr> </table>	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> Yes	<input checked="" type="radio"/> No
<input checked="" type="radio"/> Yes	<input type="radio"/> No						
<input type="radio"/> Yes	<input checked="" type="radio"/> No						
<input type="radio"/> Yes	<input checked="" type="radio"/> No						
Community ID : _____ Transect ID: <u>1.0</u> Plot ID: <u>1.20</u>							

VEGETATION

open field
47 36

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>N/A</u>			9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: Agricultural field upland sample

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: <i>open field</i> Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>N/A</u> (in.) Depth to Free Water in Pit: <u>>12"</u> (in.) Depth to Saturated Soil: <u>>12"</u> (in.)	
Remarks: <u>open Ag field</u>	

SOILS

Map Unit Name (Series and Phase): Gigger silt loam, 1-3 % slopes Drainage Class: _____
 Taxonomy (Subgroup): _____ Field Observations Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
24"	B	5/6 10YR			Silty loam
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: soils within open ag. field

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No	
Hydric Soils Present? Yes <input checked="" type="radio"/> No	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No

Remarks: Ag field.
classified as P.C.

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>N/FLA</u> Investigator: <u>WTSE</u>	Date: <u>11/2/08</u> County: <u>Richland</u> State: <u>LA</u>						
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Yes <input checked="" type="radio"/></td> <td style="text-align: center;">No <input type="radio"/></td> </tr> <tr> <td style="text-align: center;">Yes <input type="radio"/></td> <td style="text-align: center;">No <input checked="" type="radio"/></td> </tr> <tr> <td style="text-align: center;">Yes <input type="radio"/></td> <td style="text-align: center;">No <input type="radio"/></td> </tr> </table>	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Yes <input type="radio"/>	No <input type="radio"/>
Yes <input checked="" type="radio"/>	No <input type="radio"/>						
Yes <input type="radio"/>	No <input checked="" type="radio"/>						
Yes <input type="radio"/>	No <input type="radio"/>						
Community ID : _____ Transect ID: <u>1.0</u> Plot ID: <u>1.01</u>							

forested wetland
WTSE

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Quercus phellos</u>	<u>O.S</u>	<u>DEW</u>	9. _____	_____	_____
2. <u>Sabal minor</u>	<u>O.S</u>	<u>DEW</u>	10. _____	_____	_____
3. <u>Celtis borigata</u>	<u>M.S</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Carya illinoensis</u>	<u>M.S</u>	<u>FACW</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: typical vegetative components within forested fringe

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: <i>fringe</i> Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>11/2</u> (in.) Depth to Free Water in Pit: <u>>12"</u> (in.) Depth to Saturated Soil: <u>@ surface</u> (in.)	Remarks:

SOILS

Map Unit Name (Series and Phase): Forestdale silty clay loam Drainage Class: _____
 Taxonomy (Subgroup): _____ Field Observations Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>24"</u>	<u>B</u>	<u>5/2 10Y</u>	<u>4/3 10-12</u>	<u>156</u>	<u>heavy clay</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks: <u>forest @ wetland fringe habitat along banks of WFC</u>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>N/FLA</u> Investigator: <u>WJSE</u>	Date: <u>1/3/07</u> County: <u>Rhine</u> State: <u>LA</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: _____ Transect ID: <u>1.0</u> Plot ID: <u>1.22</u>

VEGETATION

*forested fringe
wpl 39*

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sabl minor</u>	<u>US</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Quercus lyrata</u>	<u>OS/BS</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Fraxinus pennsylvanica</u>	<u>OS/BS</u>	<u>FACW</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: typical vegetative components along bank

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: <i>fringe</i> Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>1"</u> (in.) <i>pools</i> Depth to Free Water in Pit: <u>@ surface</u> (in.) Depth to Saturated Soil: <u>@ surface</u> (in.)	Remarks: <u>fringe along banks of WFA</u>

SOILS

Map Unit Name (Series and Phase): Forestdale Silty clay loam Drainage Class: _____
 Field Observations Confirm Mapped Type? Yes No
 Taxonomy (Subgroup): _____

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	6/1 low	5/10 10-12	10%	silty clay
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks: <u>forested wetland fringe along WFE</u>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>Franklin Farm</u> Applicant/Owner: <u>NELEA</u> Investigator: <u>WTSZ</u>	Date: <u>1/3/07</u> County: <u>Richton</u> State: <u>LA</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: _____ Transect ID: <u>10</u> Plot ID: <u>1.23</u>

VEGETATION

*forested wetland
 up 40*

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Ulmus Americana</u>	<u>MS</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Quercus Nuttallii</u>	<u>MS</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Quercus phellos</u>	<u>OS</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Carya illinoensis</u>	<u>OS</u>	<u>FAC+</u>	12. _____	_____	_____
5. <u>Celtis berrigata</u>	<u>OS/MS</u>	<u>FACW</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: fringe habitat

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: <i>forested habitat</i> Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>1.10</u> (in.) Depth to Free Water in Pit: <u>>12"</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: <u>small forested fringe habitat along top bank of creek</u>

SOILS

Map Unit Name (Series and Phase): Forrestdale silty clay loam Drainage Class: _____
 Taxonomy (Subgroup): _____ Field Observations Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
12"	B	5/1 10YR	5/6 10YR	10%	clay loam
12"	B	4 10YR ^{shd}	-	-	clay loam

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: Low-chroma soil colors

TB

w/in Drain

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Hydric Soils Present? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Remarks: <u>forrestdale wetland habitat along bp bank</u>	

APPENDIX IV

- Richland Parish, Louisiana Soils Survey Information

SOIL LEGEND

AREAS DOMINATED BY LEVEL TO STRONGLY SLOPING SOILS ON TERRACES

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

CALHOUN-GRENADA: Poorly drained and moderately well drained, level to strongly sloping soils; formed in thick loess

GILBERT-GIGGER-DEXTER: Poorly drained, moderately well drained, and well drained, level to gently undulating soils; formed in thin loess and in the underlying loamy or loamy and sandy sediments

GILBERT-NECESSITY-EGYPT: Poorly drained and somewhat poorly drained, level to gently undulating soils; formed in thin loess and in the underlying loamy sediments

FOLEY-DEERFORD: Poorly drained and somewhat poorly drained, level and nearly level soils; formed in silty sediments

AREAS DOMINATED BY LEVEL TO GENTLY UNDULATING SOILS ON ALLUVIAL PLAINS

HEBERT-RILLA-STERLINGTON: Somewhat poorly drained and well drained, level and gently undulating soils; formed in loamy alluvium

GALLION-MER ROUGE-HEBERT: Well drained, moderately well drained, and somewhat poorly drained, level to gently undulating soils; formed in loamy alluvium

FORESTDALE-PERRY: Poorly drained, level, rarely flooded soils; formed in loamy and clayey alluvium

SHARKEY-TENSAS: Poorly drained and somewhat poorly drained, level, and very gently sloping soils; formed in clayey or clayey and loamy alluvium

PERRY-PORTLAND: Poorly drained and somewhat poorly drained, level soils; formed in loamy and clayey alluvium

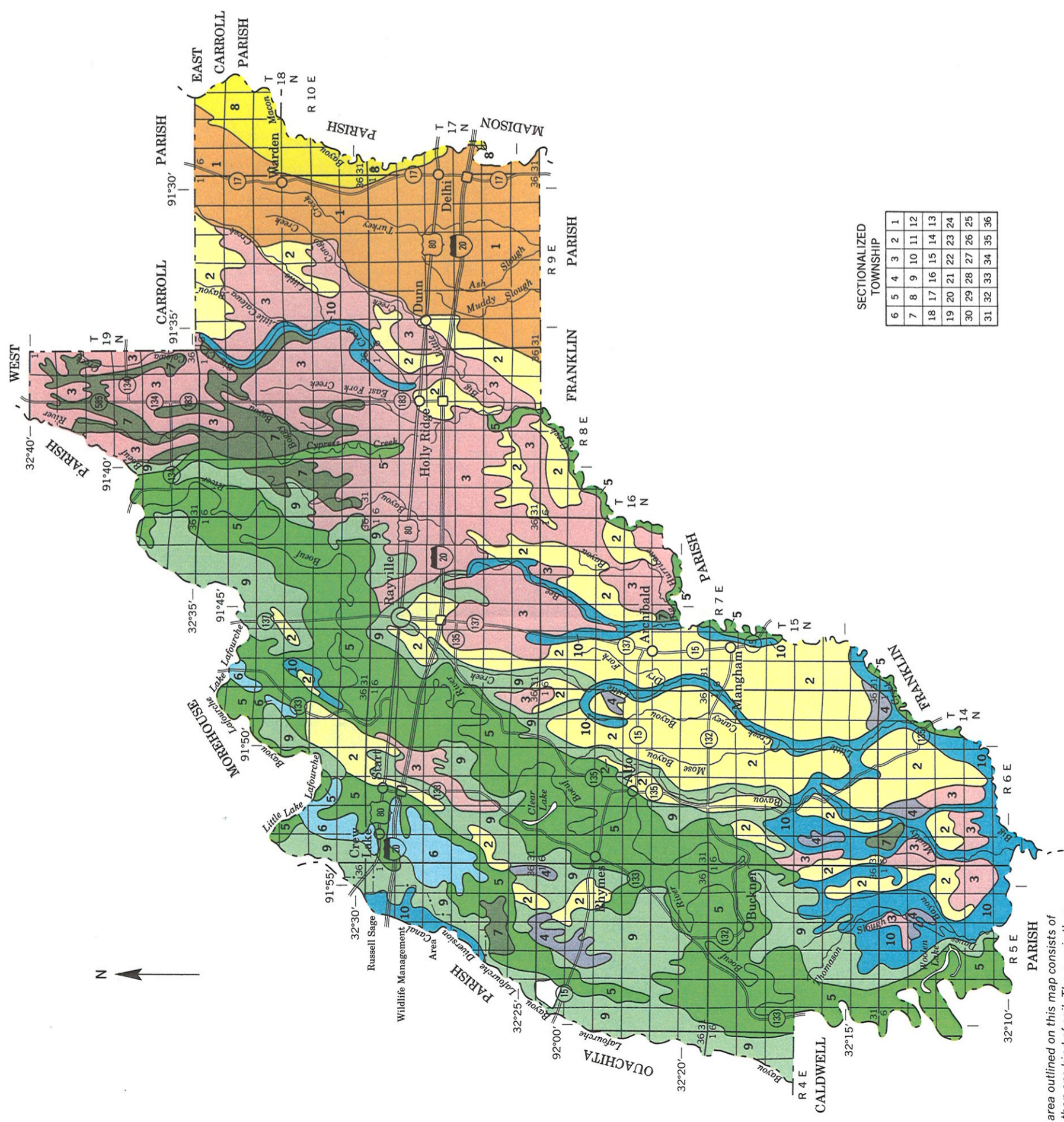
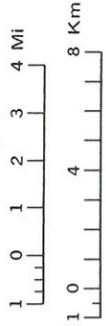
PERRY-FORESTDALE: Poorly drained, level, occasionally flooded soils; formed in clayey and loamy alluvium

Compiled 1988

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
LOUISIANA AGRICULTURAL EXPERIMENT STATION
LOUISIANA SOIL AND WATER CONSERVATION COMMITTEE

GENERAL SOIL MAP RICHLAND PARISH, LOUISIANA

Scale 1:253,440



SECTIONALIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Each area outlined on this map consists of more than one kind of soil. The map is thus meant for general planning rather than a basis for decisions on the use of specific tracts.

SOIL LEGEND

Soil map symbols and map unit names are alphabetical. Map symbols are letters. The first letter, always a capital, is the initial letter of the soil name. The second letter is a small letter, except in order three map units, in which case it is a capital letter. Order three map units, in addition to having all capital letter symbols, are further indicated by the footnote 1/.

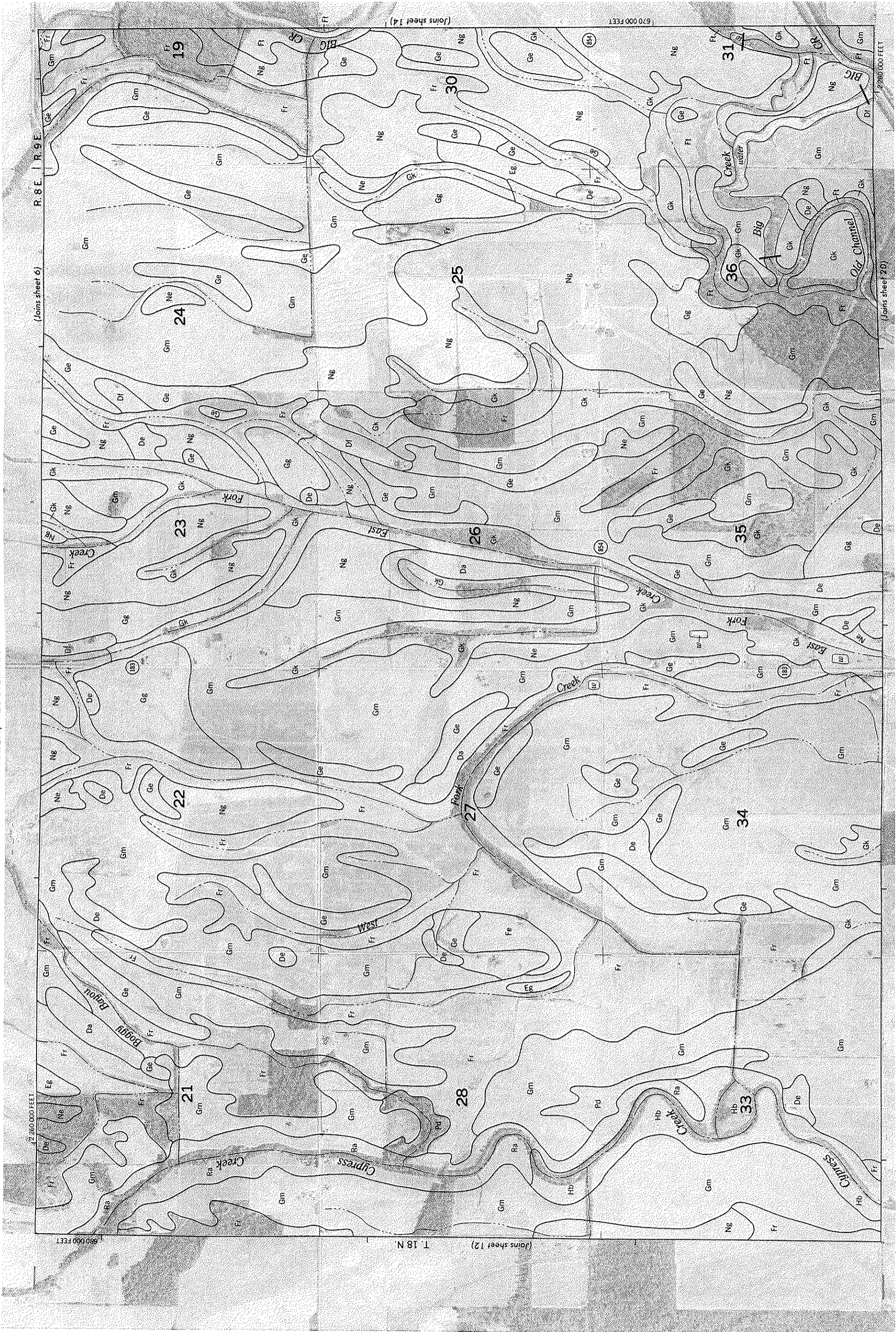
SYMBOL	NAME
AR	Arents, dredged 1/
Ca	Calhoun silt loam
Cc	Calhoun-Calloway silt loams, gently undulating
Co	Calloway silt loam, 1 to 3 percent slopes
Da	Deerford silt loam
Dd	Dexter silt loam, 0 to 1 percent slopes
De	Dexter silt loam, 1 to 3 percent slopes
Df	Dexter silt loam, 3 to 5 percent slopes
Do	Dundee silt loam
Ds	Dundee-Tensas complex, gently undulating
Eg	Egypt silt loam, 1 to 3 percent slopes
Fe	Foley silt loam
Fr	Forsdale silt loam
Ft	Forsdale silt loam, occasionally flooded
Ga	Gallion silt loam
Ge	Gigger silt loam, 1 to 3 percent slopes
Gg	Gigger-Gilbert silt loams, gently undulating
Gk	Gilbert silt loam
Gm	Gilbert-Egypt silt loams, gently undulating
Gr	Grenada silt loam, 1 to 3 percent slopes
Gs	Grenada silt loam, 8 to 12 percent slopes
Gu	Grenada-Calhoun silt loams, gently undulating
Hb	Hebert silt loam
He	Hebert silt loam
Hp	Hebert-Perry complex, occasionally flooded
Ld	Liddleville line sandy loam, 2 to 5 percent slopes
Lo	Loring silt loam, 1 to 5 percent slopes
MA	Maurepas muck 1/
Me	Mer Rouge silt loam
Mg	Mer Rouge-Gallion silt loams
Ne	Necessity silt loam, 1 to 3 percent slopes
Ng	Necessity-Gilbert silt loams, gently undulating
Pc	Perry silt loam
Pd	Perry clay
Pe	Perry clay, occasionally flooded
Po	Portland silt loam
Pr	Portland clay
Ra	Rilla silt loam, 0 to 1 percent slopes
Rb	Rilla silt loam, 1 to 3 percent slopes
Rh	Rilla-Hebert silt loams, gently undulating
Sa	Sharkey clay
Sg	Sterlington silt loam, 0 to 1 percent slopes
Sr	Sterlington silt loam, 1 to 3 percent slopes
Tc	Sterlington-Hebert silt loams, gently undulating
Ts	Tensas silt loam
Ts	Tensas-Sharkey complex
YO	Yorktown clay, frequently flooded 1/

1/ Order three map units. Fewer soil examinations were made in these mapping units, and delineations and included areas are generally larger. These mapping units were designed primarily for woodland and wildlife habitat management.

CONVENTIONAL AND SPECIAL SYMBOLS LEGEND

CULTURAL FEATURES	MISCELLANEOUS CULTURAL FEATURES	SPECIAL SYMBOLS FOR SOIL SURVEY
BOUNDARIES	MISCELLANEOUS CULTURAL FEATURES	SOIL DELINEATIONS AND SYMBOLS
National, state, or province	Farmstead, house (omit in urban area)	ESCARPMENTS
County or parish	Church	Bedrock (points down slope)
Minor civil division	School	Other than bedrock (points down slope)
Reservation (national forest or park, state forest or park, and large airport)	Indian mound (label)	SHORT STEEP SLOPE
Land grant	Located object (label)	GULLY
Limit of soil survey (label)	Tank (label)	DEPRESSION OR SINK
Field sheet matchline and neatline	Wells, oil or gas	SOIL SAMPLE (normally not shown)
AD HOC BOUNDARY (label)	Windmill	MISCELLANEOUS
Small airport, airfield, park, oilfield, cemetery, or flood pool	Kitchen midden	Blowout
STATE COORDINATE TICK	WATER FEATURES	Clay spot
LAND DIVISION CORNER (sections and land grants)	DRAINAGE	Gravelly spot
ROADS	Perennial, double line	Gumbo, slick or scabby spot (scodic)
Divided (median shown if scale permits)	Perennial, single line	Dumps and other similar non soil areas
Other roads	Intermittent	Prominent hill or peak
Trail	Drainage end	Rock outcrop (includes sandstone and shale)
ROAD EMBLEM & DESIGNATIONS	Canals or ditches	Saline spot
Interstate	Double-line (label)	Sandy spot
Federal	Drainage and/or irrigation	Severely eroded spot
State	LAKES, PONDS AND RESERVOIRS	Slide or slip (lips point upslope)
County, farm or ranch	Perennial	Stony spot, very stony spot
RAILROAD	Intermittent	
POWER TRANSMISSION LINE (normally not shown)	MISCELLANEOUS WATER FEATURES	
PIPE LINE (normally not shown)	Marsh or swamp	
FENCE (normally not shown)	Spring	
LEVEES	Well, artesian	
Without road	Well, irrigation	
With road	Wet spot	
With railroad		
DAMS		
Large (to scale)		
Medium or Small		
PITS		
Gravel pit		
Mine or quarry		

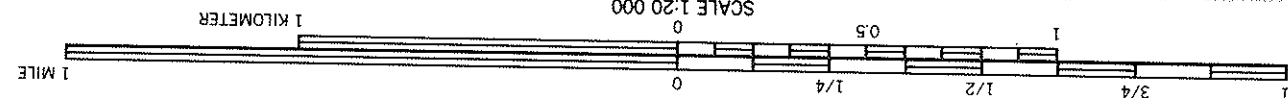
RICHLAND PARISH, LOUISIANA - SHEET NUMBER 13



This soil survey map was compiled by the U.S. Department of Agriculture, Soil Conservation Service, and cooperating agencies. Base maps are prepared from 1979 - 1980 aerial photography. Coordinate grid ticks and land division corners, if shown, are approximately positioned.

This soil survey map was compiled by the U.S. Department of Agriculture, Soil Conservation Service, and cooperating agencies. Base maps are prepared from 1979 - 1980 aerial photography. Coordinate grid ticks and land division corners, if shown, are approximately positioned.

RICHLAND PARISH, LOUISIANA NO. 13



This soil survey map was compiled by the U.S. Department of Agriculture, Soil Conservation Service, and cooperating

655 000 FEET 1:20 000 FEET 655 000 FEET (Joins sheet 19) (Joins sheet 21) (Joins sheet 27)

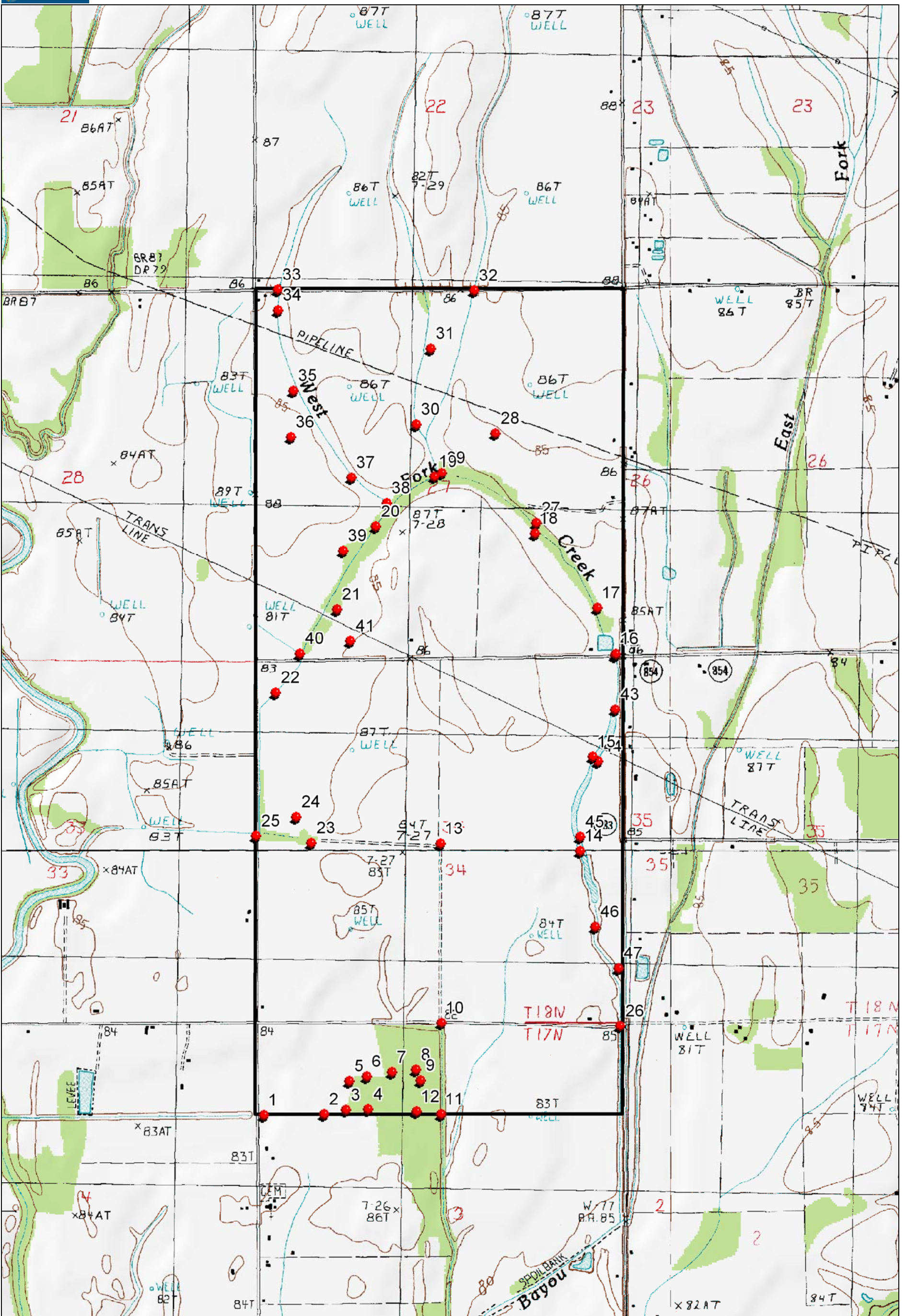
APPENDIX V

- Photographs of Selected Property Features

FRANKLIN FARM MEGA SITE

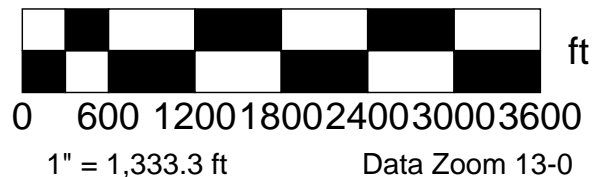
GPS POINT LOCATIONS

WAYPOINT #	GPS COORDINATE				PHOTOGRAPHIC COVERAGE
	Latitude		Longitude		
	N(deg min thou)		W(deg min thou)		
1	N 32/	29.376	W 91/	38.656	-
2	N 32/	29.378	W 91/	38.486	-
3	N 32/	29.388	W 91/	38.424	-
4	N 32/	29.390	W 91/	38.361	1
5	N 32/	29.457	W 91/	38.414	-
6	N 32/	29.468	W 91/	38.365	2
7	N 32/	29.478	W 91/	38.294	3-4
8	N 32/	29.484	W 91/	38.227	-
9	N 32/	29.458	W 91/	38.214	-
10	N 32/	29.596	W 91/	38.155	5-7
11	N 32/	29.378	W 91/	38.156	8-9
12	N 32/	29.384	W 91/	38.225	-
13	N 32/	30.023	W 91/	38.157	10-12
14	N 32/	30.006	W 91/	37.762	13
15	N 32/	30.230	W 91/	37.727	-
16	N 32/	30.475	W 91/	37.661	14-16
17	N 32/	30.585	W 91/	37.714	17-20
18	N 32/	30.761	W 91/	37.889	21
19	N 32/	30.898	W 91/	38.175	22-23
20	N 32/	30.778	W 91/	38.340	24
21	N 32/	30.581	W 91/	38.449	-
22	N 32/	30.383	W 91/	38.622	25
23	N 32/	30.025	W 91/	38.522	-
24	N 32/	30.087	W 91/	38.564	-
25	N 32/	30.041	W 91/	38.678	26-27
26	N 32/	29.588	W 91/	37.649	-
27	N 32/	30.786	W 91/	37.886	28
28	N 32/	31.001	W 91/	38.001	-
29	N 32/	30.907	W 91/	38.154	29-30
30	N 32/	31.023	W 91/	38.226	31-32
31	N 32/	31.202	W 91/	38.185	33-34
32	N 32/	31.341	W 91/	38.061	35-36
33	N 32/	31.343	W 91/	38.617	37
34	N 32/	31.294	W 91/	38.616	-
35	N 32/	31.102	W 91/	38.572	38-40
36	N 32/	30.993	W 91/	38.579	-
37	N 32/	30.896	W 91/	38.409	41
38	N 32/	30.834	W 91/	38.309	42-43
39	N 32/	30.721	W 91/	38.431	-
40	N 32/	30.476	W 91/	38.554	44-46
41	N 32/	30.505	W 91/	38.412	47
42	N 32/	30.471	W 91/	37.663	-
43	N 32/	30.342	W 91/	37.663	48-49
44	N 32/	30.219	W 91/	37.712	-
45	N 32/	30.040	W 91/	37.762	-
46	N 32/	29.825	W 91/	37.719	50
47	N 32/	29.726	W 91/	37.654	-



Northeast Louisiana Economic Alliance
 Franklin Farm Mega Site
 Richland Parish, Louisiana
 GPS/Photographic Location Map

Scale 1:16,000



FRANKLIN FARM MEGA SITE

January 2008

WAYPOINT #4

PHOTOGRAPH #1



Typical forested wetland habitat observed within the southern portion of the subject property. Photo is taken looking to the north.

WAYPOINT #6

PHOTOGRAPH #2



Transitional forested upland habitat observed within the southern portion of the subject property. Photo is taken looking to the south.



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FRANKLIN FARM MEGA SITE

January 2008

WAYPOINT #7

PHOTOGRAPH #3



Overcup oak (~22 inch DBH), a common forest associate observed within the southern portion of the subject property.

WAYPOINT #7

PHOTOGRAPH #4



Willow oak (~30 inch DBH), a common forest associate observed within the southern portion of the subject property.



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WAYPOINT #10

PHOTOGRAPH #5



Relatively Permanent Water observed dissecting the southern portion of the subject property. Photo is taken looking to the south.

WAYPOINT #10

PHOTOGRAPH #6



View of Wade Road as it transects the southern portion of the site in an east to west orientation.



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FRANKLIN FARM MEGA SITE

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WAYPOINT #10

PHOTOGRAPH #7



Non-Relatively Permanent Water observed to the north. This secondary drainage transects the open agricultural field within the central portion of the site.

WAYPOINT #11

PHOTOGRAPH #8



Relatively Permanent Water located within the southern portion of the site. This drainage appears to have been constructed or improved for storm water drainage relief. Photo is looking to the north from adjacent the south boundary.



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WAYPOINT #11

PHOTOGRAPH #9



Typical open agricultural field conditions observed within the southern portion of the subject property.

WAYPOINT #13

PHOTOGRAPH #10



Non-Relatively Permanent Water observed transecting the central portion of the site. This secondary drainage was constructed or improved for storm water drainage through the interior portion of the site.



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FRANKLIN FARM MEGA SITE

January 2008

WAYPOINT #13

PHOTOGRAPH #11



Non-Relatively Permanent Water observed to the east. This secondary drainage was constructed or improved for storm water runoff relief through the interior portions of the site.

WAYPOINT #13

PHOTOGRAPH #12



Common open agricultural field conditions observed within the central portion of the subject property. Photo is taken looking generally to the north.



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FRANKLIN FARM MEGA SITE

January 2008

WAYPOINT #14

PHOTOGRAPH #13



A segment of West Fork Creek observed to the north. Photo is taken within the western portion of the subject property.

WAYPOINT #16

PHOTOGRAPH #14



A segment of West Fork Creek observed to the south. Photo is taken from the Burns Road crossing located within the central portion of the site.



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FRANKLIN FARM MEGA SITE

January 2008

WAYPOINT #16

PHOTOGRAPH #15



West Fork Creek observed to the north from the Burns Road crossing.

WAYPOINT #16

PHOTOGRAPH #16



Open water impoundment habitat located within the central portion of the subject property. Photo is taken looking north adjacent to Burns Road.



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FRANKLIN FARM MEGA SITE

January 2008

WAYPOINT #17

PHOTOGRAPH #17



A segment of West Fork Creek observed looking north.

WAYPOINT #17

PHOTOGRAPH #18



Typical forested wetland "fringe" habitat located abutting West Fork Creek. Photo is taken looking generally to the north.



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FRANKLIN FARM MEGA SITE

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WAYPOINT #17

PHOTOGRAPH #19



View to the west from adjacent the West Fork Creek channel.

WAYPOINT #17

PHOTOGRAPH #20



Water marks observed along the base of the trees present within the forested wetland habitat.



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WAYPOINT #18

PHOTOGRAPH #21



Wetland depressional habitat observed along the south boundary of West Fork Creek. Photo is taken looking generally to the northwest.

WAYPOINT #19

PHOTOGRAPH #22



A segment of West Fork Creek observed transecting the central portion of the subject property. Photo is taken looking to the west.



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WAYPOINT #19

PHOTOGRAPH #23



Typical forested wetland conditions observed along the south bank of West Fork Creek. Photo is taken looking southeast.

WAYPOINT #20

PHOTOGRAPH #24



Primary creek channel observed as it transects the western portion of the subject property.



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WAYPOINT #22

PHOTOGRAPH #25



Primary creek channel observed transecting the extreme western portion of the subject property. Photo is taken looking southwest.

WAYPOINT #25

PHOTOGRAPH #26



Relatively Permanent Water observed within the western portion of the site. This drainage appears to have been constructed or improved for storm water runoff relief through the interior portions of the site.



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WAYPOINT #25

PHOTOGRAPH #27



Culvert crossing located along Jagers Lane. Photo is taken looking northeast.

WAYPOINT #27

PHOTOGRAPH #28



Typical forested wetland conditions observed within the forested wetland "fringe" habitat along West Fork Creek.



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WAYPOINT #29

PHOTOGRAPH #29



Primary stream channel observed to the north as it transects the northern portion of the subject property.

WAYPOINT #29

PHOTOGRAPH #30



Primary stream channel observed to the southwest as it interconnects with West Fork Creek located within the central portion of the site.



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WAYPOINT #30

PHOTOGRAPH #31



Primary stream channel observed transecting the open agricultural field areas located within the northern portion of the subject property.

WAYPOINT #30

PHOTOGRAPH #32



Primary stream channel observed transecting the open agricultural field areas located within the northern portion of the subject property.



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WAYPOINT #31

PHOTOGRAPH #33



Open agricultural field habitat observed within the northern portion of the site. Photo is taken looking south.

WAYPOINT #31

PHOTOGRAPH #34



Commonly found open agricultural field habitat observed within the northern portion of the site. Photo is taken looking north.



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WAYPOINT #32

PHOTOGRAPH #35



Primary creek channel observed transecting the northern portion of the subject property. Photo is taken looking west along the south boundary of Jagers Lane.

WAYPOINT #32

PHOTOGRAPH #36



Bridge crossing observed under Jagers Lane. Jagers Lane is the north boundary of the subject property.



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WAYPOINT #33

PHOTOGRAPH #37



Relatively Permanent Water transecting the extreme northwest portion of the subject property. Photo is taken looking south.

WAYPOINT #35

PHOTOGRAPH #38



Primary creek channel observed transecting the open field habitat within the northern portion of the site. Photo is taken looking south.



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WAYPOINT #35

PHOTOGRAPH #39



Creek channel observed transecting the open agricultural field located within the northern portion of the subject property. Photo is taken looking north.

WAYPOINT #35

PHOTOGRAPH #40



Creek channel observed transecting the open agricultural field located within the northern portion of the subject property. Photo is taken looking west.



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WAYPOINT #37

PHOTOGRAPH #41



Prominent creek channel observed transecting the central portion of the subject property.

WAYPOINT #38

PHOTOGRAPH #42



Primary creek channel observed transecting the central portion of the subject property. Note: the forested wetland habitat along the banks of the creek channel.



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WAYPOINT #38

PHOTOGRAPH #43



Typical open field habitat conditions observed within the central portion of the subject property.

WAYPOINT #40

PHOTOGRAPH #44



Primary creek channel observed transecting the western portion of the site. This channel appears to have been constructed or improved for storm water runoff relief through the western portion of the site.



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WAYPOINT #40

PHOTOGRAPH #45



Creek channel observed to the north, northeast as it transects the western portion of the site. Photo is taken from Burns Road.

WAYPOINT #40

PHOTOGRAPH #46



Creek channel observed to the south, southwest as it transects the western portion of the site. Photo is taken from Burns Road.



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WAYPOINT #41

PHOTOGRAPH #47



Depressional wetland habitat identified within the central portion of the subject property.

WAYPOINT #43

PHOTOGRAPH #48



Herbaceous "fringe" wetland identified along either bank of West Fork Creek as it dissects the eastern portion of the subject property. Photo is taken looking south.



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WAYPOINT #43

PHOTOGRAPH #49



Herbaceous "fringe" wetland identified along either bank of West Fork Creek as it dissects the eastern portion of the subject property. Photo is taken looking north.

WAYPOINT #46

PHOTOGRAPH #50



West Fork Creek viewed as it dissects the eastern portion of the subject property. Note: the herbaceous wetland habitat present along the banks of the creek channel.



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