

June 26, 2014

U.S. Department of the Army
Corps of Engineers, New Orleans District
Operations Division
Surveillance and Enforcement Section
P.O. Box 60267
New Orleans, LA 70160-0267
ATTN: Mr. Rob Heffner

Exhibit DD. Schexnayder Site Wetlands Delineation Report & Transmittal Letter

**RE: Preliminary Jurisdictional Determination
Schexnayder 1000-Acre Wetland Delineation
Ascension Parish, Donaldsonville, Louisiana**

Dear Mr. Heffner:

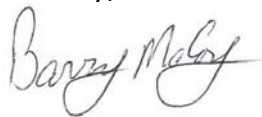
G.E.C., Inc. (GEC) recent conducted a wetland delineation on 1000 acres located between LA Hwy 18 and LA Hwy 70 at the intersection with LA Hwy. 3089 in Ascension Parish, Donaldsonville, Louisiana on behalf of the Baton Rouge Area Chamber (BRAC). The northern portion of the property is currently in agriculture row crops with the extreme southern portion being forested.

Field surveys of the property were conducted during June 2014. The data gathered and a map of wetlands identified during these field surveys is provided in the enclosed report. With the submittal of this wetland delineation, GEC is requesting a **Preliminary Jurisdictional Determination** for the wetlands identified on the property. Please direct your official written correspondence to the following address:

Mr. Barry McCoy
8282 Goodwood Blvd.
Baton Rouge, Louisiana 70806

Thank you for your assistance with this matter. If I can be of any assistance during your review, or if you would like to arrange a meeting at the site, please do not hesitate to contact me at (225) 612-4174.

Sincerely,



Barry McCoy
Senior Wetland Scientist

Enclosures

July 2014

**WETLAND DELINEATION REPORT
PROJECT ID. 213084.20.002
1,000-ACRE SCHEXNAYDER SITE
ASCENSION PARISH, DONALDSONVILLE,
LOUISIANA**

Prepared for



Baton Rouge Area Chamber
Baton Rouge, Louisiana

Prepared by



Baton Rouge, Louisiana

**WETLAND DELINEATION REPORT
PROJECT ID. 213084.20.002
1,000-ACRE SCHEXNAYDER SITE
ASCENSION PARISH, DONALDSONVILLE,
LOUISIANA**

GEC Project Number: 0013.2122014.006

Prepared by



8282 Goodwood Boulevard
Baton Rouge, Louisiana 70806
Phone – 225/612-3000

**1,000-ACRE SITE
ASCENSION PARISH,
DONALDSONVILLE, LOUISIANA**

July 31, 2014

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WETLAND DELINEATION REPORT

WETLAND DELINEATION REPORT 1,000-ACRE SCHEXNAYDER SITE ASCENSION PARISH, DONALDSONVILLE, LOUISIANA

INTRODUCTION

G.E.C., Inc. (GEC) recently conducted a wetland delineation on a 1,000-acre site for Baton Rouge Area Chamber in Ascension Parish, Louisiana (Figure 1). The project area consists of active agriculture fields, hardwood forests, agriculture ditches, and bayous (Figure 2). The property fronts the Mississippi River between river miles 173 and 174. Highways 18 and 3089 traverse through the property at the north end and Louisiana Highway 70 traverses along the eastern side of the property with two forested tracts situated on the east side of Highway 70. The purpose of this delineation was to determine the wetland boundaries within the approximately 1,000-acre site.

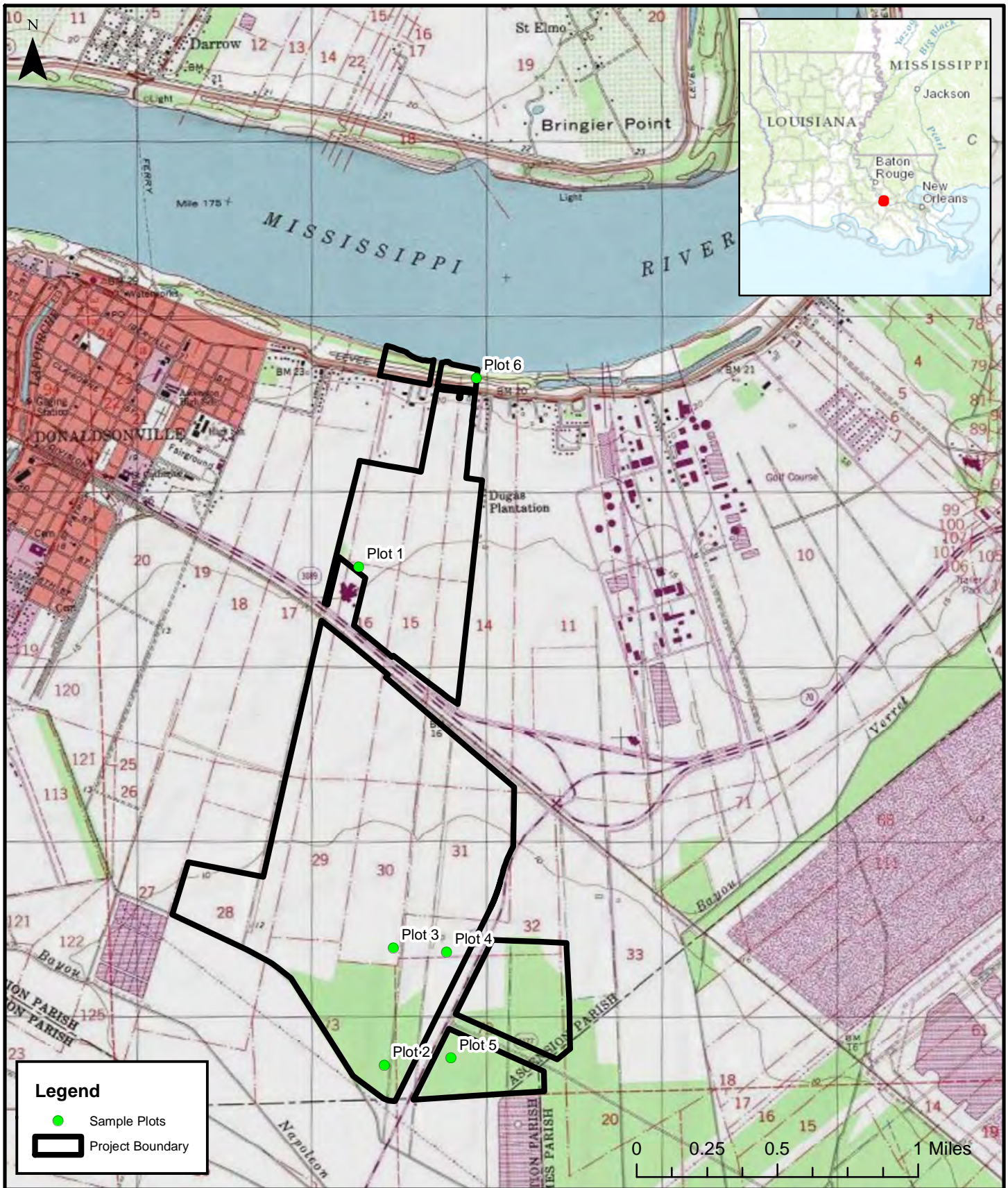
METHODOLOGY

GEC conducted the wetland delineation in accordance with Section D, Subsection 2 of Technical Report Y-87-1, Corps of Engineers Wetlands Delineation Manual as well as the Atlantic and Gulf Coastal Plains Regional Supplement. Aerial photography, Natural Resources Conservation Service (NRCS) Ascension Parish soil survey map, and U.S. Geological Survey (USGS) topographic quadrangle maps were reviewed prior to the initiation of field work to identify the potential extent of wetlands present on the subject property.

Routine Wetland Delineation Data Forms (Appendix A), as approved by Headquarters, U.S. Army Corps of Engineers (USACE) 10/08, were completed for various vegetative communities encountered within the project area. These data forms contain sufficient information regarding the presence or absence of hydric soils, hydrophytic vegetation, and wetland hydrology, to support the demarcation of a wetland boundary. The location of each sample plot along with mapped wetlands and other waters are shown in Figure 3. Figure 4 provides the same information but without the aerial background for a black and white reproducible figure.

Dominant vegetation was recorded on the data forms along with the indicator status as listed in the *National List of Plant Species Occurring in Wetlands (Region 2)* released by USACE in May 2012 (Release no. 12-005). Once dominant vegetation was recorded and evaluated, if more than 50 percent of the dominant vegetation had an indicator status of FAC, FACW, or OBL or the **prevalence index was ≤ 3.0 , the hydrophytic vegetation criterion was met.**

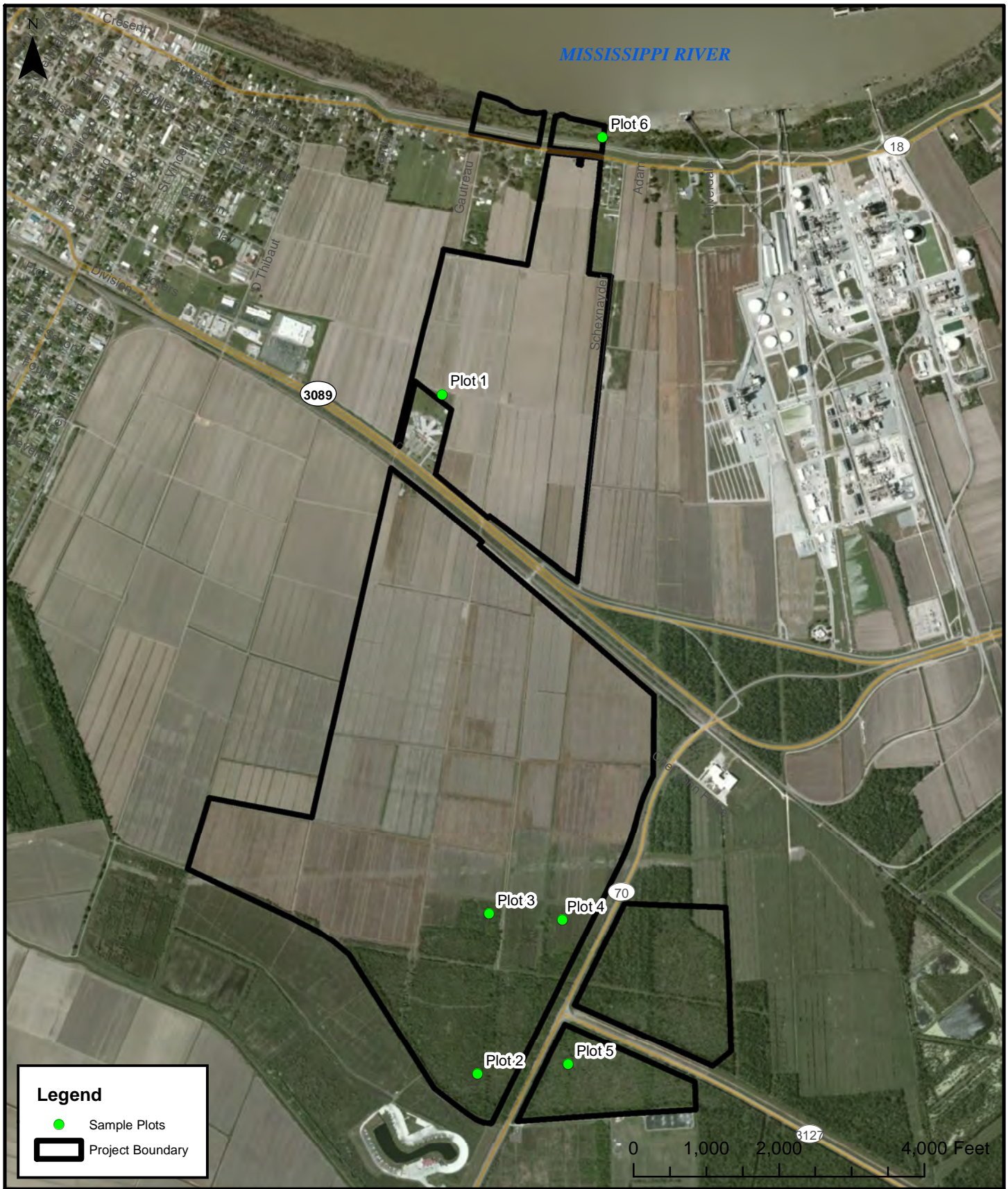
A soil pit was excavated to a depth of approximately 18 inches at each sample plot. The pit remained open for at least 15 minutes to allow the pit to fill with water, if present. Soils were sampled along the exposed stratum. Information recorded on the data forms included soil colors (hue, value, and chroma as per the 1992 revised edition of the Munsell Color Chart), size, color, abundance, and depth of mottles, as well as soil texture. Soil texture was determined **using the "texture by feel" analysis.** Figure 5 depicts the soils mapped by the NRCS within the project area.



Site Location Map **Schexnayder Property** **Ascension Parish, Louisiana**



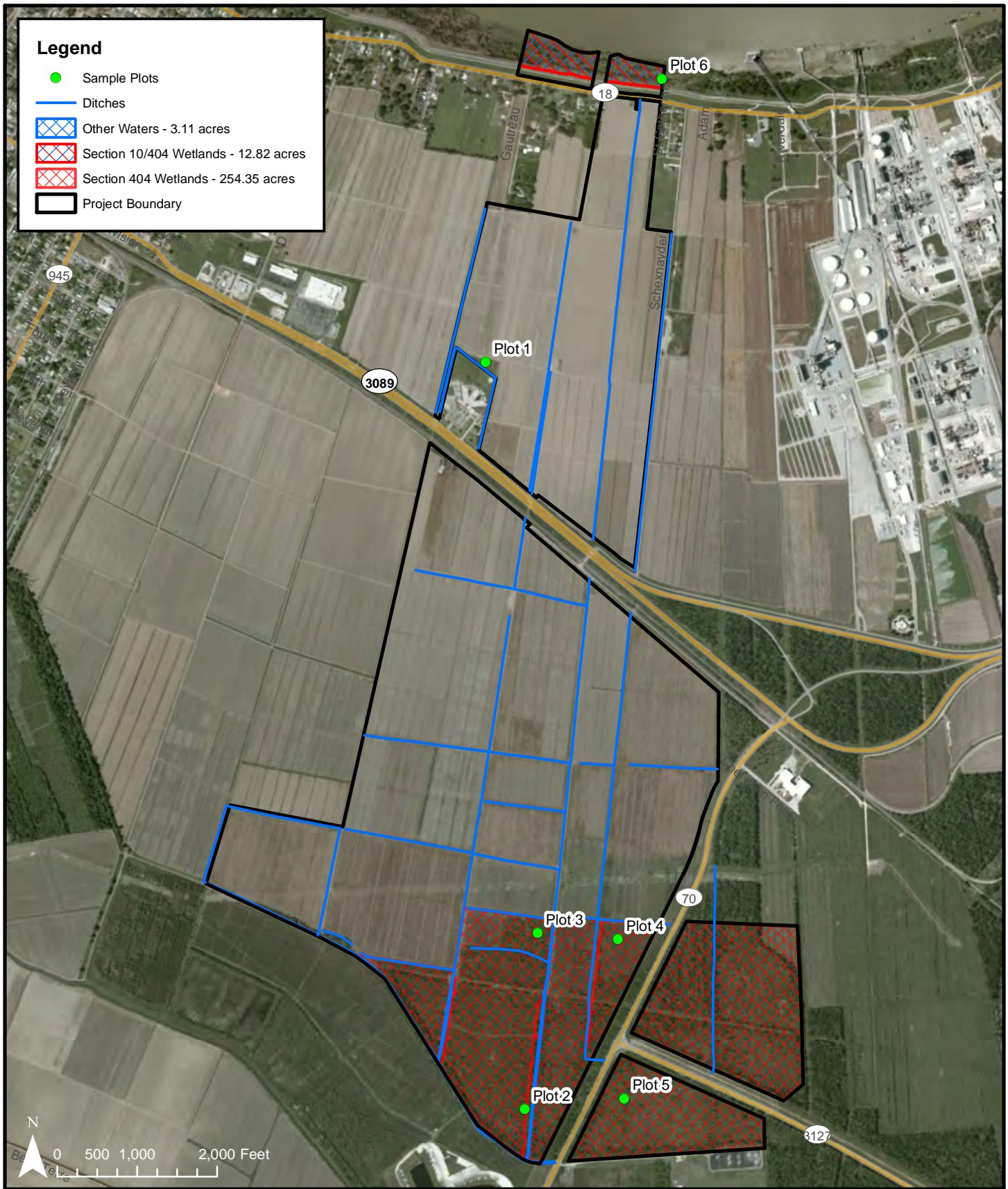
Figure: 1
 Date: July 2014
 Scale: 1:30,000
 Source: ESRI/GEC
 Map ID: 12345-3136



Project Site Map Schexnayder Property Ascension Parish, Louisiana



Figure: 2
Date: July 2014
Scale: 1:22,000
Source: ESRI/GEC
Map ID: 12345-3136



WETLAND DELINEATION MAP

Schexnayder Property
Ascension Parish, Louisiana

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



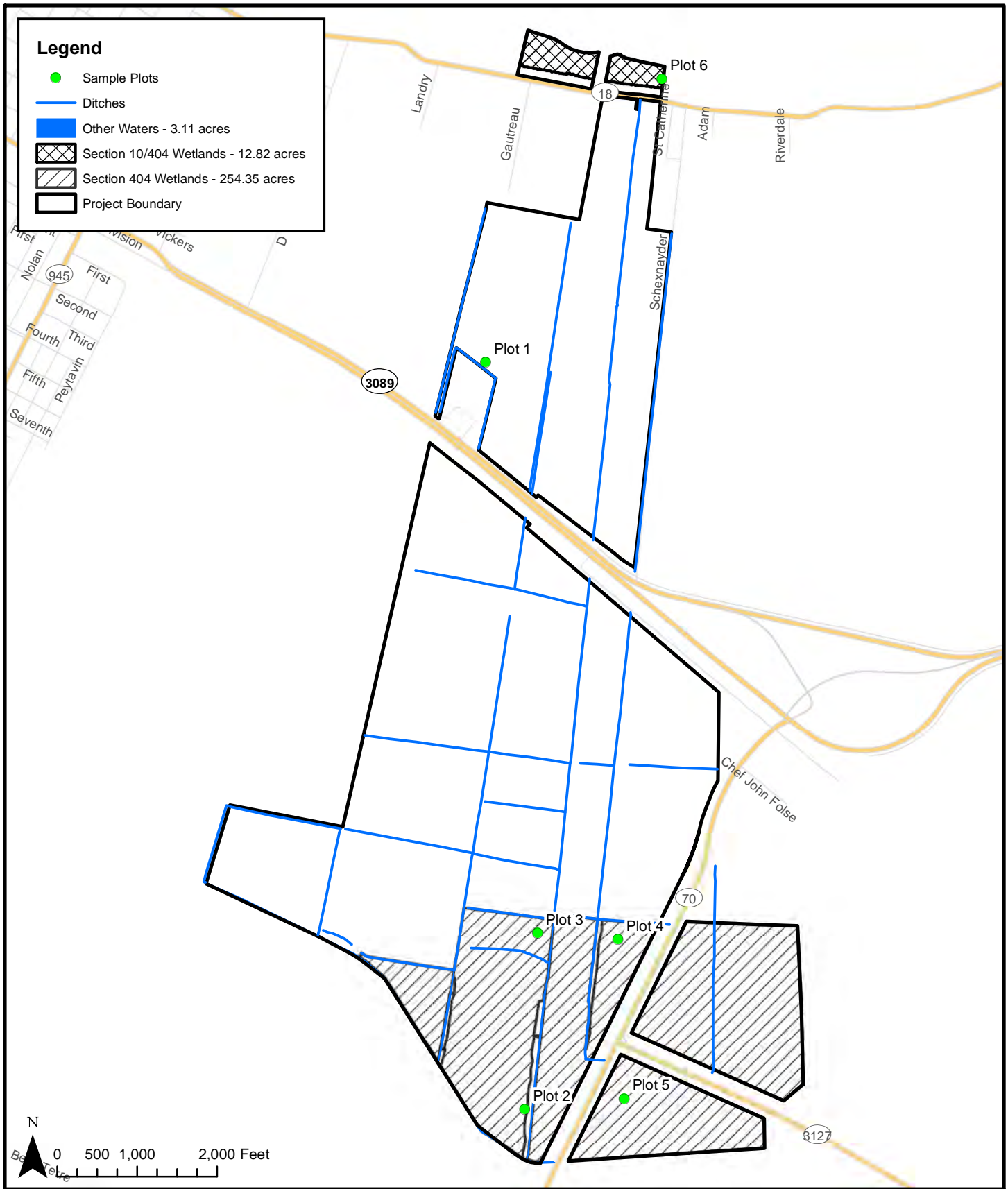
Figure: 3

Date: July 2014

Scale: 1:20,000

Source: ESRI/GEC

Map Author: 12345-3136



WETLAND DELINEATION JD MAP

Schexnayder Property
Ascension Parish, Louisiana

Service Layer Credits:



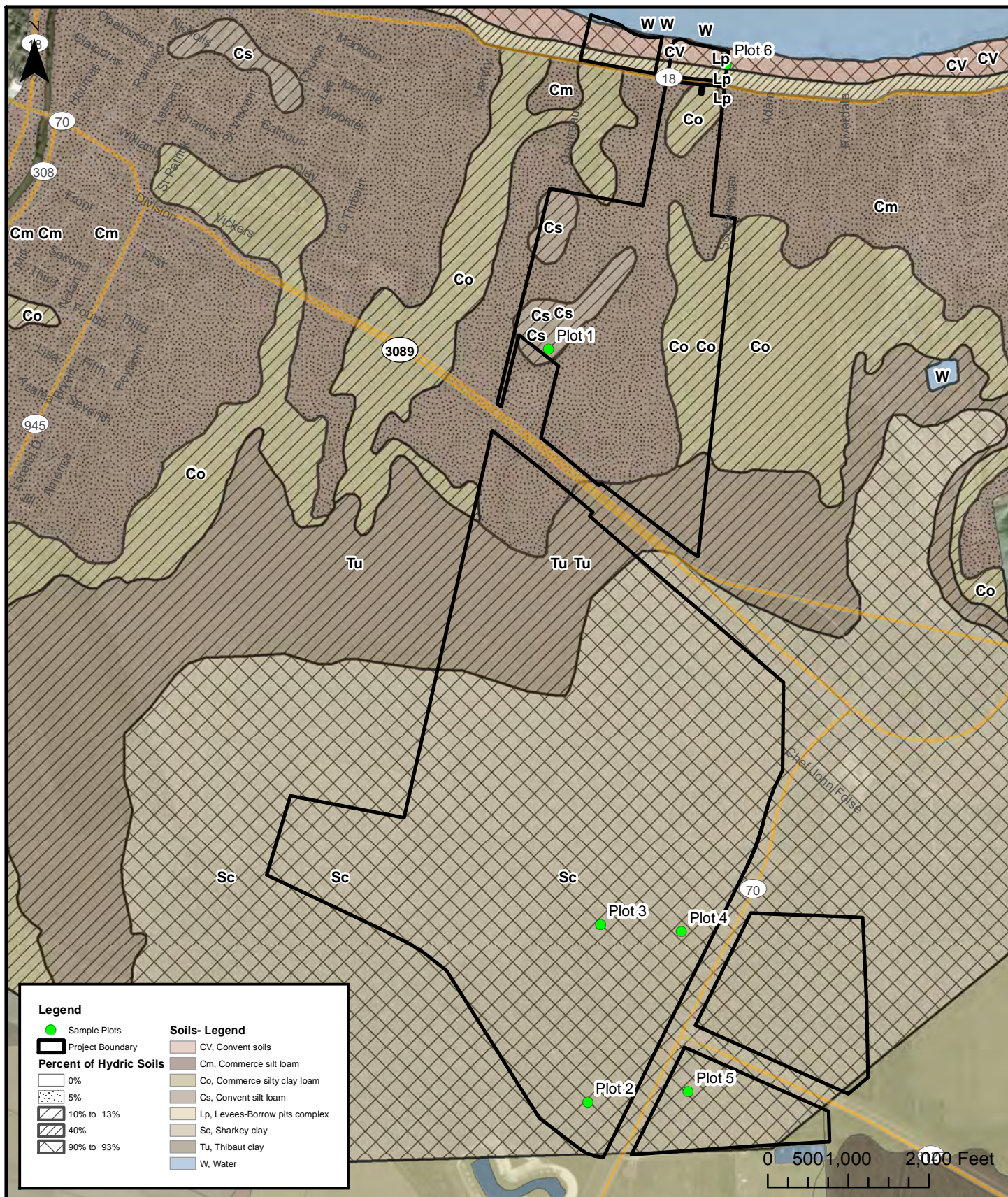
Figure: 4

Date: July 2014

Scale: 1:20,000

Source: ESRI/GEC

Map Author: 12345-3136



SOILS MAP Schexnayder Property Ascension Parish, Louisiana



Figure: 5

Date: July 2014

Scale: 1:20,000

Source: NRCS/GEC

Map Author: 12345-3136

Wetland hydrology indicators were also recorded at each sample plot as per the USACE requirements. If at least one primary or two secondary hydrology indicators were present, the sample plot was classified as having wetland hydrology.

Photographs were taken at each sample plot where a data form was completed. These photographs show a representative soil profile, as well as overviews of the sample plots (Appendix B).

RESULTS

The following subsections provide descriptions of each of the sites identified during the field survey. Descriptions of vegetation, soil characteristics, and hydrology indicators at each sample plot recorded are provided.

Sample Plot - 1: Sample Plot 1 is located within the northern portion of the property in a maintained field situated adjacent to the agriculture fields (Figure 3). The dominant herbaceous species observed within this sample plot is Common Bermuda grass (*Cynodon dactylon*). Other herbaceous vegetation recorded within the plot included white clover (*Trifolium repens*), Johnson grass (*Sorghum halepense*), Brazilian vervain (*Verbena brasiliensis*), and common morning-glory (*Ipomoea purpurea*), but with less abundance. The hydrophytic vegetation criterion is not met within this sample plot.

The soils within this sample plot are mapped as Convent silt loam. This series is listed on the National and the Louisiana Hydric Soils lists. Field investigations determined that the soils exhibited hydric soil indicators for a depleted matrix. Primary and secondary indicators of wetland hydrology were lacking from this sample plot. The wetland hydrology criterion is not met at this plot. It is GEC's opinion that this sample plot is not within a wetland, based on the lack of hydrophytic vegetation and wetland hydrology (see Data Form Plot - 1).

Sample Plot - 2: Sample Plot 2 is located in the very southern portion of the property within a hardwood forest. This habitat consists of black willow (*Salix nigra*) and sugarberry (*Celtis laevigata*) as the dominant tree species with some scattered American elms (*Ulmus americana*). The sapling/shrub stratum is dominated by black will and American elder (*Sambucus canadensis*) with less abundant occurrences of box elder (*Acer negundo*), Drummond red maple (*Acer rubrum* var. *drummondii*), laurel oak (*Quercus laurifolia*), dwarf palmetto (*Sabal minor*), **and American elm. Dominant herbaceous species include lizard's tail (*Saururus cernuus*), and bayou violet (*Viola langloisi*).** The woody vine stratum consists of dominants such as poison ivy (*Toxicodendron radicans*), Virginia creeper (*Parthenocissus quinquefolia*), and trumpet creeper (*Campsis radicans*). Scattered occurrences of Louisiana blackberry (*Rubus louisianus*) were also observed and recorded within this sample plot. The hydrophytic vegetation criterion is met within this sample plot.

The soils within this sample plot are mapped as Sharkey clay. This series is listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. Primary indicators of hydrology recorded at this sample plot include water marks (B1) and water-stained leaves (B9). The only secondary indicator recorded was a positive

FAC-Neutral test (D5). It is GEC's opinion that this sample plot is within a wetland, based on the presence of all three wetland parameters (see Data Form Plot - 2).

Sample Plot - 3: Sample Plot 3 is also located within the southern portion of the property in a young (8-10 year old) forested habitat. This habitat is dominated by box elder in the sapling/shrub stratum with less abundant occurrences of stiff dogwood (*Cornus foemina*), American elm, sugarberry, and American elder. The herbaceous stratum consists of poison ivy and Japanese climbing fern (*Lygodium japonicaum*) as the dominants with scattered occurrences of small-spike false nettle (*Boehmeria cylindrica*) and Carolina coral-beads (*Cocculus carolinus*). The dominant woody vines are trumpet creeper, poison ivy, and Virginia creeper. The hydrophytic vegetation criterion is met within this sample plot.

The soils within this sample plot are mapped as Sharkey clay. This series is listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. Primary hydrology indicators included water-stained leaves only. However, crayfish burrows (C8), Saturation visible on aerial photography (C9), geomorphic position (D2), and a positive FAC-Neutral test (D5) were all secondary indicators of hydrology recorded at the sample plot. It is GEC's opinion that this sample plot is within a wetland, based on the presence of hydrophytic vegetation, hydric soils and wetland hydrology within the plot (see Data Form Plot - 3).

Sample Plot - 4: Sample Plot 4 is located within a abandon agriculture field which contains scattered sapling species. The dominant sapling/shrub species include stiff dogwood and box-elder. Other less abundant sapling/shrub species include green ash (*Fraxinus pennsylvanica*), Drummond red maple, and American elm. Dominant herbaceous vegetation within this habitat includes Canada goldenrod and calico aster (*Symphyotrichum lateriflorum*). Saltmarsh loosestrife (*Lythrum lineare*) was also recorded within the plot but less abundant. Southern dewberry (*Rubus trivialis*) and peppervine (*Ampelopsis arborea*) are the dominant woody vine species at the plot with scattered occurrences of serrate-leaf blackberry (*Rubus agutus*). The hydrophytic vegetation criterion is met within this sample plot.

The soils within this sample plot are mapped as Sharkey clay. This series is listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. Primary hydrology indicators include surface water (A1), high water table (A2), saturation (A3), and water-stained leaves (B9). The surface water was approximately one inch in depth, which was possibly attributed to a thunderstorm the previous afternoon. The water table was at 12 inches and the saturation was within the top two inches of the surface. In addition, crayfish burrow (C8), geomorphic position (D2), and a positive FAC-Neutral test were observed and recorded as secondary hydrology indicators within the plot. The wetland hydrology criterion is met at this plot. It is GEC's opinion that this sample plot is within a wetland, based on the presence of hydrophytic vegetation, hydric soils and wetland hydrology indicators within the plot (see Data Form Plot - 4).

Sample Plot - 5: Sample Plot 5 is located in the far southeast tract of the property along the east side of LA Highway 70 within a forested habitat (Figure 3). This habitat is dominated by sugarberry, laurel oak, box elder, and Drummond red maple. Dominant species within the

sapling/shrub stratum include giant cane (*Arundinaria gigantea*) and dwarf palmetto. Other species recorded in this stratum but with less abundance are Drummond red maple, common buttonbush (*Cephalanthus occidentalis*), pumpkin ash (*Fraxinus profunda*), and deciduous holly (*Ilex decidua*). The herbaceous stratum was dominated by two smartweeds, *Polygonum setaceum* and *Polygonum hydropiperoides*, and lizard's tail. Dominant woody vines include Virginia creeper and saw greenbrier (*Smilax bona-nox*). The hydrophytic vegetation criterion is met within this sample plot.

The soils within this sample plot are mapped as Sharkey clay. This series is listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. Primary wetland hydrology indicators include surface water (A1), high water table (A2), saturation (A3), water marks (B1), drift deposits (B3), and water-stained leaves (B9). Secondary wetland hydrology indicators observed and recorded were crayfish burrows (C8), geomorphic position (D2), and a positive FAC-Neutral test (D9). The wetland hydrology criterion is met at this plot. It is GEC's opinion that this sample plot is within a wetland, based on the presence of hydrophytic vegetation, hydric soils and wetland hydrology within the plot (see Data Form Plot - 5).

Sample Plot - 6: Sample Plot 6 is located within the batture land between the protective levee and the Mississippi River. The plot was located within an herbaceous habitat along the toe of the levee. This habitat has scattered occurrences of black willow and eastern swamp privet (*Foresteria acuminata*) as the dominant sapling/shrub species. The herbaceous stratum was dominated by alligator weed (*Alternanthera philoxeroides*) with scattered patches of swamp dock (*Rumex verticillatus*). The dominant woody vine is redvine (*Brunnichia cirrhosa*). Adjacent to the river the batture land was forested with black willow, eastern cottonwood (*Populus deltoides*), sugarberry, American sycamore (*Platanus occidentalis*), and pecan hickory (*Carya illinoensis*). The hydrophytic vegetation criterion is met within this sample plot.

The soil series mapped at this plot is the Convent soils, frequently flooded. This series is listed on the National and the Louisiana Hydric Soils lists. Field observations concluded that the hydric soils criterion is met within this plot based on the presence of hydric soil indicators for a depleted matrix. Primary wetland hydrology indicators include water marks (B1), sediment deposits (B2), drift deposits (B3), inundation visible on aerial imagery (B7), water-stained leaves (B9) and oxidized rhizospheres on living roots (C3). The secondary wetland hydrology indicators observed and recorded were a positive FAC-Neutral test (D5) and geomorphic position (D2). The wetland hydrology criterion is met at this plot. It is GEC's opinion that this sample plot is within a wetland, based on the presence of hydrophytic vegetation, hydric soils and wetland hydrology within the plot (see Data Form Plot - 6).

CONCLUSIONS

Field investigations on the 1,000 acres were conducted on June 23, 24, 26, and July 9, 2014. The northern two-thirds of the property are currently in agriculture production of soybeans and sugarcane. Investigators were able to obtain cropping history data on the fields from the United States Department of Agriculture (USDA) Farm Services Agency (FSA) for the past five years. In addition, the USDA Natural Resource Conservation Service (NRCS) has designated these fields as either non-wetland fields or prior converted fields. Therefore, the agriculture

fields were mapped as non-wetland habitat for this delineation. Numerous agriculture drainage ditches traverse the property and have been mapped as other waters, which encompass 3.11 acres.

The southern one-third is hardwood forest or overgrown abandoned fields. Except for a few ridges along the larger canals, the majority of the forested habitat is designated as wetland habitat encompassing 254.35 acres. In addition, the two small tracts at the north end of the property between the Mississippi River and the protection levee has also been mapped as wetland habitat, which encompass 12.82 acres.

Although GEC uses the same criteria and methodology as that of the USACE, due to the degree of subjectivity associated with studies of this type, there may be some degree of variance in the demarcation of the wetland boundary. Consequently, GEC's opinion may not necessarily reflect that of the USACE, nor does it relieve our client of any legal obligations to verify the wetland findings, consult with the USACE, and possibly obtain a Department of the Army permit prior to performing any dredging, filling and/or construction operations in Waters of the United States, including wetlands.

Appendix A

DATA FORMS

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 1000-Acre Schexnayder Property City/County: Ascension Sampling Date: Jun 23, 2014
 Applicant/Owner: Harold Schexnayder State: Louisiana Sampling Point: 1
 Investigator(s): B. McCoy, Q. Daigre Section, Township, Range: Section 30, T-11-S, R-15-E
 Landform (hillslope, terrace, etc.): Maintained Field Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR O Lat: 30°5'33.3" N Long: 90°58'26.1" W Datum: NAD 83
 Soil Map Unit Name: Convent silt loam NWI Classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

HYDROLOGY

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

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status															
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)														
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
50 % of total cover: <u>0</u>		<u>0</u> = Total Cover 20 % of total cover: <u>0</u>		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>X 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>15</u></td> <td>X 3 = <u>45</u></td> </tr> <tr> <td>FACU species <u>120</u></td> <td>X 4 = <u>480</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>X 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>135</u></td> <td>(A) <u>525</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.89</u>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	X 2 = <u>0</u>	FAC species <u>15</u>	X 3 = <u>45</u>	FACU species <u>120</u>	X 4 = <u>480</u>	UPL species <u>0</u>	X 5 = <u>0</u>	Column Totals: <u>135</u>	(A) <u>525</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>0</u>	X 2 = <u>0</u>																	
FAC species <u>15</u>	X 3 = <u>45</u>																	
FACU species <u>120</u>	X 4 = <u>480</u>																	
UPL species <u>0</u>	X 5 = <u>0</u>																	
Column Totals: <u>135</u>	(A) <u>525</u> (B)																	
Sapling/Shrub Stratum (Plot size: _____) 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 50 % of total cover: <u>0</u> <u>0</u> = Total Cover 20 % of total cover: <u>0</u>																		
Herb Stratum (Plot size: 30' radius) 1. <u>Cynodon dactylon (Grass,bermuda)</u> <u>75</u> <u>Y</u> <u>FACU</u> 2. <u>Trifolium repens (Clover,white)</u> <u>25</u> _____ <u>FACU</u> 3. <u>Sorghum halepense (Grass,johnson)</u> <u>15</u> _____ <u>FACU</u> 4. <u>Verbena brasiliensis (Vervain,brazilian)</u> <u>15</u> _____ <u>FAC</u> 5. <u>Ipomoea purpurea (Morning-glory,common)</u> <u>5</u> _____ <u>FACU</u> 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 11. _____ 12. _____ 50 % of total cover: <u>67.5</u> <u>135</u> = Total Cover 20 % of total cover: <u>27</u>																		
Woody Vine Stratum (Plot size: _____) 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 50 % of total cover: <u>0</u> <u>0</u> = Total Cover 20 % of total cover: <u>0</u>																		
Remarks: (Include photo numbers here or on a separate sheet.) 																		

Hydrophytic Vegetation Present? Yes No X

SOIL

Sampling Point: 1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 3/3	100			N/A	N/A	Silty Clay	
2-10	10YR 4/2	99	10YR 3/6	1	C	M	Silty Clay	
10-18+	10YR 4/2	97	10YR 4/6	2	C	M	Clay	
			10yr 5/1	1	D	M	Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No ☐

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 1000-Acre Schexnayder Property City/County: Ascension Sampling Date: Jun 23, 2014
 Applicant/Owner: Harold Schexnayder State: Louisiana Sampling Point: 2
 Investigator(s): B. McCoy, Q. Daigre Section, Township, Range: Section 30, T-11-S, R-15-E
 Landform (hillslope, terrace, etc.): Hardwood Forest Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR O Lat: 30°4'0.7" N Long: 90°58'22.4" W Datum: NAD 83
 Soil Map Unit Name: Sharkey clay NWI Classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

HYDROLOGY

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

Tree Stratum (Plot size: <u>30'</u> radius)				Dominance Test worksheet:																	
	Absolute % Cover	Dominant Species?	Indicator Status																		
1. <u>Salix nigra (Willow,black)</u>	75	Y	OBL	Number of Dominant Species That Are OBL, FACW, or FAC: <u>9</u> (A)																	
2. <u>Celtis laevigata (Sugar-berry)</u>	25	Y	FACW	Total Number of Dominant Species Across All Strata: <u>9</u> (B)																	
3. <u>Ulmus americana (Elm,american)</u>	15		FACW	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																	
4. _____				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>X 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>X 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>X 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>X 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>		Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	X 2 = _____	FAC species _____	X 3 = _____	FACU species _____	X 4 = _____	UPL species _____	X 5 = _____	Column Totals: _____	(A) _____ (B) _____	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																				
OBL species _____	x 1 = _____																				
FACW species _____	X 2 = _____																				
FAC species _____	X 3 = _____																				
FACU species _____	X 4 = _____																				
UPL species _____	X 5 = _____																				
Column Totals: _____	(A) _____ (B) _____																				
Prevalence Index = B/A = _____																					
5. _____																					
6. _____																					
7. _____																					
8. _____																					
115 = Total Cover 50 % of total cover: <u>57.5</u> 20 % of total cover: <u>23</u>																					
Sapling/Shrub Stratum (Plot size: <u>30'</u> radius)				Hydrophytic Vegetation Indicators: <u>1</u> – Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> – Dominance Test is > 50% <u>3</u> – Prevalence Test is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain)																	
1. <u>Salix nigra (Willow,black)</u>	60	Y	OBL																		
2. <u>Sambucus canadensis (Elder,american)</u>	30	Y	FACW																		
3. <u>Acer negundo (Box-elder)</u>	20		FACW																		
4. <u>Acer rubrum var. drummondii (Maple,drummond red)</u>	20		OBL																		
5. <u>Quercus laurifolia (Oak,laurel)</u>	10		FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or probl matic.																	
6. <u>Sabal minor (Palmetto,dwarf)</u>	10		FACW																		
7. <u>Ulmus americana (Elm,american)</u>	10		FACW																		
8. _____																					
160 = Total Cover 50 % of total cover: <u>80</u> 20 % of total cover: <u>32</u>																					
Herb Stratum (Plot size: <u>30'</u> radius)				Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.																	
1. <u>Saururus cernuus (Tail,lizard's)</u>	30	Y	OBL																		
2. <u>Viola langloisii (Violet,bayou)</u>	20	Y	FACW																		
3. _____																					
4. _____																					
5. _____																					
6. _____																					
7. _____																					
8. _____																					
9. _____																					
10. _____																					
11. _____																					
12. _____																					
50 = Total Cover 50 % of total cover: <u>25</u> 20 % of total cover: <u>10</u>																					
Woody Vine Stratum (Plot size: <u>30'</u> radiu:)						Hydrophytic Vegetation Present? Yes <u>X</u> No _____															
1. <u>Toxicodendron radicans (Ivy,poison)</u>	30	Y	FAC																		
2. <u>Parthenocissus quinquefolia (Creeper,virginia)</u>	20	Y	FAC																		
3. <u>Campsis radicans (Trumpet-creeper)</u>	15	Y	FAC																		
4. <u>Rubus louisianus (Blackberry,louisiana)</u>	10		FAC																		
5. _____				_____																	
75 = Total Cover 50 % of total cover: <u>37.5</u> 20 % of total cover: <u>15</u>																					

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

SOIL

Sampling Point: 2**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 4/1	96	10YR 3/6	4	C	M	Clay	
8-18+	10YR 4/1	90	10YR 4/6	5	C	M	Clay	
			10YR 5/1	5	D	M	Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes X No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 1000-Acre Schexnayder Property City/County: Ascension Sampling Date: Jun 23, 2014
 Applicant/Owner: Harold Schexnayder State: Louisiana Sampling Point: 3
 Investigator(s): B.McCoy, Q. Daigre Section, Township, Range: Section 30, T-11-S, R-15-E
 Landform (hillslope, terrace, etc.): Hardwood Forest Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR O Lat: 30°4'22.5" N Long: 90°58'20.1" W Datum: NAD 83
 Soil Map Unit Name: Sharkey clay NWI Classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: Plot was taken in an area that was row cropped in the past but now appears to be 8-10-year-old hardwood forest.		

HYDROLOGY

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

Tree Stratum (Plot size: 30' radius)				Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>Acer negundo (Box-elder)</u>			25	Y	FACW
2.						
3.						
4.						
5.						
6.						
7.						
8.						
				25 = Total Cover		
50 % of total cover: 12.5				20 % of total cover: 5		
Sapling/Shrub Stratum (Plot size: 30' radius)						
1.	<u>Acer negundo (Box-elder)</u>			80	Y	FACW
2.	<u>Cornus foemina (Dogwood,stiff)</u>			20		FACW
3.	<u>Ulmus americana (Elm,american)</u>			20		FACW
4.	<u>Celtis laevigata (Sugar-berry)</u>			10		FACW
5.	<u>Sambucus canadensis (Elder,american)</u>			10		FACW
6.						
7.						
8.						
				140 = Total Cover		
50 % of total cover: 70				20 % of total cover: 28		
Herb Stratum (Plot size: 30' radius)						
1.	<u>Toxicodendron radicans (Ivy,poison)</u>			60	Y	FAC
2.	<u>Lygodium japonicum (Fern,japanese climbing)</u>			30	Y	FAC
3.	<u>Boehmeria cylindrica (False-nettle,small-spike)</u>			10		FACW
4.	<u>Cocculus carolinus (Coral-beads,carolina)</u>			10		FAC
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
				110 = Total Cover		
50 % of total cover: 55				20 % of total cover: 22		
Woody Vine Stratum (Plot size: 30' radius)						
1.	<u>Campsis radicans (Trumpet-creeper)</u>			15	Y	FAC

SOIL

Sampling Point: 3

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 3/1	100			N/A	N/A	Clay	
4-10	10YR 4/1	100			N/A	N/A	Clay	
10-18+	10YR 4/1	95	10YR 4/6	5	C	M	Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 1000-Acre Schexnayder Property City/County: Ascension Sampling Date: Jun 27, 2014
 Applicant/Owner: Harold Schexnayder State: Louisiana Sampling Point: 4
 Investigator(s): B.McCoy, Q.Daigre Section, Township, Range: Section 30, T-11-S, R-15-E
 Landform (hillslope, terrace, etc.): Scrub/shrub Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR O Lat: 30°4'21.5" N Long: 90°58'8.7" W Datum: NAD 83
 Soil Map Unit Name: Sharkey clay NWI Classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Water-Stained Leaves (B9)		<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input checked="" type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>1*</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>12</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0-2</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: *Partially due to rainfall from the previous afternoon.		

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status															
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83.3</u> (A/B)														
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
50 % of total cover: <u>0</u>		0 = Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>X 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>X 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>X 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>X 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> </table> Prevalence Index = B/A = _____	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	X 2 = _____	FAC species _____	X 3 = _____	FACU species _____	X 4 = _____	UPL species _____	X 5 = _____	Column Totals: _____	(A) _____ (B) _____
Total % Cover of:	Multiply by:																	
OBL species _____	x 1 = _____																	
FACW species _____	X 2 = _____																	
FAC species _____	X 3 = _____																	
FACU species _____	X 4 = _____																	
UPL species _____	X 5 = _____																	
Column Totals: _____	(A) _____ (B) _____																	
20 % of total cover: <u>0</u>																		
Sapling/Shrub Stratum (Plot size: <u>30'</u> radius _____)																		
1. <u>Cornus foemina (Dogwood, stiff)</u>	<u>35</u>	<u>Y</u>	<u>FACW</u>															
2. <u>Acer negundo (Box-elder)</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>															
3. <u>Fraxinus pennsylvanica (Ash, green)</u>	<u>15</u>		<u>FACW</u>															
4. <u>Acer rubrum var. drummondii (Maple, drummond red)</u>	<u>10</u>		<u>OBL</u>															
5. <u>Ulmus americana (Elm, american)</u>	<u>5</u>		<u>FACW</u>															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
50 % of total cover: <u>47.5</u>		95 = Total Cover		Hydrophytic Vegetation Indicators: <u>1</u> – Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> – Dominance Test is > 50% <u>3</u> – Prevalence Test is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
20 % of total cover: <u>19</u>																		
Herb Stratum (Plot size: <u>30'</u> radius _____)																		
1. <u>Solidago canadensis (Golden-rod, Canada)</u>	<u>75</u>	<u>Y</u>	<u>FACU</u>															
2. <u>Aster lateriflorus (Aster, calico)</u>	<u>35</u>	<u>Y</u>	<u>FAC</u>															
3. <u>Lythrum lineare (Loosestrife, saltmarsh)</u>	<u>20</u>		<u>OBL</u>															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
9. _____	_____	_____	_____															
10. _____	_____	_____	_____															
11. _____	_____	_____	_____															
12. _____	_____	_____	_____															
50 % of total cover: <u>65</u>		130 = Total Cover																
20 % of total cover: <u>26</u>																		
Woody Vine Stratum (Plot size: <u>30'</u> radius _____)																		
1. <u>Rubus trivialis (Dewberry, southern)</u>	<u>45</u>	<u>Y</u>	<u>FAC</u>															
2. <u>Ampelopsis arborea (Pepper-vine)</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>															
3. <u>Rubus argutus (Blackberry, serrate-leaf)</u>	<u>10</u>		<u>FACU</u>															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
50 % of total cover: <u>35</u>		70 = Total Cover																
20 % of total cover: <u>14</u>																		
Hydrophytic Vegetation Present? Yes <u>X</u> No _____																		
Remarks: (Include photo numbers here or on a separate sheet.)																		

SOIL

Sampling Point: 4

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 4/1	100			N/A	N/A	Clay	
3-6	10YR 4/1	96	10YR 3/3	4	C	M	Clay	
6-18+	10YR 4/1	95	7.5YR 4/6	5	C	M	Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 1000-Acre Schexnayder Property City/County: Ascension Sampling Date: Jun 26, 2014
 Applicant/Owner: Harold Schexnayder State: Louisiana Sampling Point: 5
 Investigator(s): B. McCoy, Q. Daigre Section, Township, Range: Section 30, T-11-S, R-15-E
 Landform (hillslope, terrace, etc.): Hardwood Forest Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR O Lat: 30°4'1.8" N Long: 90°58'8.2" W Datum: NAD 83
 Soil Map Unit Name: Sharkey clay NWI Classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
 Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>
<input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input checked="" type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes <u>X</u> No ____ Depth (inches): <u>2-3</u> Water Table Present? Yes <u>X</u> No ____ Depth (inches): <u>6</u> Saturation Present? Yes <u>X</u> No ____ Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No ____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

Tree Stratum (Plot size: 30' radius)				Dominance Test worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Celtis laevigata (Sugar-berry)</u>	30	Y	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: <u>11</u>	(A)
2. <u>Quercus laurifolia (Oak,laurel)</u>	30	Y	FACW	Total Number of Dominant Species Across All Strata: <u>11</u>	(B)
3. <u>Acer negundo (Box-elder)</u>	25	Y	FACW	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u>	(A/B)
4. <u>Acer rubrum var. drummondii (Maple,drummond red)</u>	25	Y	OBL		
5. _____					
6. _____					
7. _____					
8. _____					
			110 = Total Cover		
50 % of total cover: <u>55</u>			20 % of total cover: <u>22</u>		
Sapling/Shrub Stratum (Plot size: 30' radius)				Prevalence Index worksheet:	
	Absolute % Cover	Dominant Species?	Indicator Status	Total % Cover of:	Multiply by:
1. <u>Arundinaria gigantea (Cane,giant)</u>	40	Y	FACW	OBL species _____	x 1 = _____
2. <u>Sabal minor (Palmetto,dwarf)</u>	40	Y	FACW	FACW species _____	X 2 = _____
3. <u>Acer rubrum var. drummondii (Maple,drummond red)</u>	25		OBL	FAC species _____	X 3 = _____
4. <u>Cephalanthus occidentalis (Buttonbush,common)</u>	20		OBL	FACU species _____	X 4 = _____
5. <u>Fraxinus profunda (Ash,pumpkin)</u>	10		OBL	UPL species _____	X 5 = _____
6. <u>Ilex decidua (Holly,deciduous)</u>	10		FACW	Column Totals: _____	(A) _____ (B)
7. _____					
8. _____					
			145 = Total Cover		
50 % of total cover: <u>72.5</u>			20 % of total cover: <u>29</u>		
Prevalence Index = B/A = _____					
Herb Stratum (Plot size: 30' radius)				Hydrophytic Vegetation Indicators:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Polygonum setaceum (Smartweed,swamp)</u>	10	Y	FACW	<u>1</u> – Rapid Test for Hydrophytic Vegetation	
2. <u>Polygonum hydropiperoides (Smartweed,swamp)</u>	5	Y	OBL	<u>X</u> <u>2</u> – Dominance Test is > 50%	
3. <u>Saururus cernuus (Tail,lizard's)</u>	5	Y	OBL	<u>3</u> – Prevalence Test is ≤ 3.0 ¹	
4. _____				<u>Problematic Hydrophytic Vegetation¹ (Explain)</u>	
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
			20 = Total Cover		
50 % of total cover: <u>10</u>			20 % of total cover: <u>4</u>		
Woody Vine Stratum (Plot size: 30' radiu:)				Definitions of Vegetation Strata:	
	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Parthenocissus quinquefolia (Creeper,virginia)</u>	25	Y	FAC	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
2. <u>Smilax bona-nox (Greenbrier,saw)</u>	10	Y	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	
3. _____				Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
4. _____				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.	
5. _____				Woody vine – All woody vines, regardless of height.	
			35 = Total Cover		
50 % of total cover: <u>17.5</u>			20 % of total cover: <u>7</u>		
Hydrophytic Vegetation Present?				Yes <u>X</u> No _____	

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

SOIL

Sampling Point: 5

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 3/2	98	10YR 5/8	2	C	M	Clay	
3-7	10YR 4/1	100			N/A	N/A	Clay	
7-18+	10YR 4/1	95	10YR 5/8	2	C	M	Clay	
			10YR 4/6	3	C	M	Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes ☒ No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: 1000-Acre Schexnayder Property City/County: Ascension Sampling Date: Jul 9, 2014
 Applicant/Owner: Harold Schexnayder State: Louisiana Sampling Point: 6
 Investigator(s): B. McCoy Section, Township, Range: Section 30, T-11-S, R-15-E
 Landform (hillslope, terrace, etc.): Hardwood Forest (Batture) Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR or MLRA): LRR O Lat: 30°6'8" N Long: 90°58'0.2" W Datum: _____
 Soil Map Unit Name: Convent soils, frequently flooded NWI Classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
 Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
 Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

HYDROLOGY

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

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status															
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)														
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
50 % of total cover: <u>0</u>		0 = Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr><td>OBL species _____</td><td>x 1 = _____</td></tr> <tr><td>FACW species _____</td><td>X 2 = _____</td></tr> <tr><td>FAC species _____</td><td>X 3 = _____</td></tr> <tr><td>FACU species _____</td><td>X 4 = _____</td></tr> <tr><td>UPL species _____</td><td>X 5 = _____</td></tr> <tr><td>Column Totals: _____</td><td>(A) _____ (B) _____</td></tr> </table> Prevalence Index = B/A = _____	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	X 2 = _____	FAC species _____	X 3 = _____	FACU species _____	X 4 = _____	UPL species _____	X 5 = _____	Column Totals: _____	(A) _____ (B) _____
Total % Cover of:	Multiply by:																	
OBL species _____	x 1 = _____																	
FACW species _____	X 2 = _____																	
FAC species _____	X 3 = _____																	
FACU species _____	X 4 = _____																	
UPL species _____	X 5 = _____																	
Column Totals: _____	(A) _____ (B) _____																	
20 % of total cover: <u>0</u>																		
Sapling/Shrub Stratum (Plot size: 30' radius _____)																		
1. <u>Forestiera acuminata (Privet,swamp)</u>	<u>15</u>	<u>Y</u>	<u>OBL</u>															
2. <u>Salix nigra (Willow,black)</u>	<u>15</u>	<u>Y</u>	<u>OBL</u>															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
50 % of total cover: <u>15</u>		30 = Total Cover		Hydrophytic Vegetation Indicators: <u>1</u> – Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> – Dominance Test is > 50% <u>3</u> – Prevalence Test is ≤ 3.0 ¹ _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or probl matic.														
20 % of total cover: <u>6</u>																		
Herb Stratum (Plot size: 30' radius _____)																		
1. <u>Alternanthera philoxeroides (Weed,alligator)</u>	<u>75</u>	<u>Y</u>	<u>OBL</u>															
2. <u>Rumex verticillatus (Dock,swamp)</u>	<u>15</u>	_____	<u>FACW</u>															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
9. _____	_____	_____	_____															
10. _____	_____	_____	_____															
11. _____	_____	_____	_____															
12. _____	_____	_____	_____															
50 % of total cover: <u>45</u>		90 = Total Cover		Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.														
20 % of total cover: <u>18</u>																		
Woody Vine Stratum (Plot size: 30' radiu: _____)																		
1. <u>Brunnichia cirrhosa (Redvine)</u>	<u>35</u>	<u>Y</u>	<u>FACW</u>															
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
50 % of total cover: <u>17.5</u>		35 = Total Cover		Hydrophytic Vegetation Present? Yes <u>X</u> No _____														
20 % of total cover: <u>7</u>																		
Remarks: (Include photo numbers here or on a separate sheet.)																		

SOIL

Sampling Point: 6**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

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

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

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

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

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present?Yes X No _____

Remarks:

Appendix B

PHOTOGRAPHS



Photograph 1. Soil Profile Observed at Plot 1



**Photograph 2. Overview of Habitat Observed at Plot 1,
Facing East**



**Photograph 3. Overview of Habitat Observed at Plot 1,
Facing Northwest**



Photograph 4. Soil Profile Observed at Plot 2



**Photograph 5. Overview of Habitat Observed at Plot 2,
Facing West**



**Photograph 6. Overview of Habitat Observed at Plot 2,
Facing North**



Photograph 7. Soil Profile Observed at Plot 3



**Photograph 8. Overview of Habitat Observed at Plot 3,
Facing North**



**Photograph 9. Overview of Habitat Observed at Plot 3,
Facing South**



Photograph 10. Soil Profile Observed at Plot 4



**Photograph 11. Overview of Habitat Observed at Plot 4,
Facing Southwest**



**Photograph 12. Overview of Habitat Observed at Plot 4,
Facing North**



Photograph 13. Soil Profile Observed at Plot 5



**Photograph 14. Overview of Habitat Observed at Plot 5,
Facing South**



**Photograph 15. Overview of Habitat Observed at Plot 5,
Facing West**



Photograph 16. Soil Profile Observed at Plot 6



**Photograph 17. Overview of Habitat Observed at Plot 6,
Facing West**



**Photograph 18. Overview of Habitat Observed at Plot 6,
Facing East**



Photograph 19. Overview of Habitat Observed in Batture, Facing West



Photograph 20. Large Drainage Canal Along the Southern Boundary of the Property, Facing Upstream from Midpoint of Boundary



Photograph 21. Large Drainage Canal Along the Southern Boundary of Property at West End, Facing Northwest (upstream)



Photograph 22. Typical Agriculture Drainage Ditch within the Agriculture Fields North of LA Highway 3089



Photograph 23. Typical Agriculture Drainage Ditch within the Agriculture Fields South of LA Highway 3089