Exhibit CC. Beauregard Airport Industrial Site Wetlands Delineation Report

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Beauregard Airport Industrial Site Wetlands Delineation Report

WETLAND DELINEATION
BEAUREGARD REGIONAL AIRPORT TRACT
BEAUREGARD PARISH, LOUISIANA

Prepared for:

SJB Group, LLC
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December 21, 2015

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Senior Engineer

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SUMMARY

A tract of land totaling approximately 1,180 acres located south of Highway 190 and west of Old Airport Road in DeRidder, Beauregard Parish, Louisiana was evaluated for the presence of jurisdictional wetlands. The wetland delineation was performed in accordance with the procedures and methods as described in the U.S. Department of the Army Corps of Engineers (COE) 1987 Manual for Wetland Delineations and the Atlantic and Gulf Coastal Plain Regional Supplement 2010. Based on the Soil Survey of Beauregard Parish, soils present on the property consists of Beauregard silt loam, 1 to 3 percent slopes, Beauregard silt loam, 3 to 5 percent slopes, Blevins very fine sandy loam, 1 to 3 percent slopes, Blevins very fine sandy loam, 3 to 5 percent slopes, Caddo-Messer complex, 0 to 1 percent slopes, Guyton silt loam, 0 to 1 percent slopes, occasionally flooded, Guyton-Ouachita silt loams, frequently flooded, Malbis fine sandy loam, 1 to 3 percent slopes, and Malbis fine sandy loam, 3 to 5 percent slopes. The vast majority of the property consists of pine plantation. A seed orchard is located in the western portion of the property. Brushy Branch traverses the tract from north to south near the center and a tributary of Cowpen Creek is located in the northeastern portion of the tract. Two ponds are located on the tract.

Based on the results of this delineation approximately 942.5 acres of non-wetlands and 236.7 acres of wetlands were identified on the tract. 203.7 acres of these wetlands are pine plantation, and 33 acres are bottomland hardwood forest. In addition to wetlands, the aforementioned creeks and 0.77 acres of ponds on the tract will likely be considered "other waters" by the Corps of Engineers.

1.0 INTRODUCTION

Arabie Environmental Solutions, LLC. (Arabie Environmental) was retained to conduct a wetland delineation of property located west of the Beauregard Regional Airport in DeRidder, Beauregard Parish, Louisiana. The tract is located in Sections 1, 2, 3, 10, 11 and 12, Township 03 South, Range 10 West. The center of the property is located at Latitude 30º 49' 15.65" Longitude 93º 21' 34.64". The purpose of the delineation was to evaluate the tract for the potential presence of wetlands. A site location map is included as **Figure 1** and a site diagram is included as **Figure 2**. Light Detection and Ranging (LIDAR) imagery was reviewed and is included as **Figure 3**.

Cleve Hoffpauir of Arabie Environmental performed the field evaluation. Mr. Hoffpauir has a Bachelors of Science Degree in Environmental Science and has had specialized training in environmental investigations and in performing wetland delineations. Blaine Johnson managed the project. Mr. Johnson has over twenty-five years experience in environmental investigation and permitting, with over fifteen years experience in wetland permitting. Copies of the applicable Certificates of Training are included as **Attachment A**.

2.0 METHODOLOGY

The wetland delineation performed by Arabie Environmental was conducted in accordance with technical guidelines and methods for wetland delineations set forth by the U.S. Department of the Army Corps of Engineers (COE) in the 1987 Manual for Wetland Delineations and the Atlantic and Gulf Coastal Plains Regional Supplement 2010. These technical guidelines and methods utilize a multi-parameter approach to identify and delineate wetlands for the purposes of Section 404 of the Clean Water Act. According to the COE 1987 Manual for Wetland Delineations, a site must have hydrophytic vegetation, hydric soils, and wetland hydrology in order for it to be classified as a wetland.

The following definitions are from the COE 1987 Manual for Wetland Determinations:

Hydrophytic vegetation – the sum total of macrophytic plant life growing in water or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content. When hyrophytic vegetation comprises a community where indicators of hydric soils and wetland hydrology also occur, the area has wetland vegetation.

Wetland soils – a soil that is saturated, flooded, ponded long enough during the growing season to develop anaerobic conditions that favor the growth and regeneration of hydrophytic vegetation (US Department of Agriculture – Soil Conservation Service 1985). Hydric soils that occur in areas having positive indicators of hydrophytic vegetation and wetland hydrology are wetland soils.

Wetland hydrology – the sum total of wetness characteristics in areas that are inundated or have saturated soils for sufficient duration to support hydrophytic vegetation.

Prior to the site visit, the Web Soil Survey prepared by the United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS) was reviewed. The purpose of that review was to determine the soil types as mapped by USDA. As indicated by the Web Soil Survey, soils on the delineated site include nine soil types: Beauregard silt loam, 1 to 3 percent slopes (BdB), Beauregard silt loam, 3 to 5 percent slopes (BdC), Blevins very fine sandy loam, 1 to 3 percent slopes (BpB), Blevins very fine sandy loam, 3 to 5 percent slopes (BpC), Caddo-Messer complex, 0 to 1 percent slopes (CdA), Guyton silt loam, 0 to 1 percent slopes, occasionally flooded (GtA), Guyton-Ouachita silt loams, frequently flooded (GYA), Malbis fine sandy loam, 1 to 3 percent slopes (MbB), and Malbis fine sandy loam, 3 to 5 percent slopes (MbC). CdA, GtA, and GYA soil types are listed as hydric Beauregard Parish. In addition to the soils map, an infrared aerial photographs from 2004 and 2008 were also reviewed. The soils maps and infrared photographs reviewed are included as **Attachment B**.

The delineation was begun by traversing the site and making a general evaluation of the topography and drainage features. After a general evaluation of the tract, eight transects were traversed in the areas mapped CdA to determine the percentage of wetlands in these

areas. These soils exhibited a “pimple mounded” topography with wetlands and non-wetlands so intermingled that they could not be mapped separately.

Transects 1, 2 and 3 were traversed in the southeastern portion of the property. This area exhibited a “pimple mounded” topography which is typical of this soil type. This area was determined to be 38% wetlands based on the results of these transects.

Transects 4, 5 and 6 were traversed in the west and northwest portions of the property. This area also exhibited a “pimple mounded” topography which is typical of this soil type. This area was determined to be 36% wetlands based on the results of these transects.

Transects 7 and 8 were traversed in the northeastern portion of the property. The results of these transects revealed this area to contain approximately 31% wetlands.

Along each transect, wetlands and non-wetlands were measured. The percentage of wetlands found within the CdA mapped areas was determined from the results. The Transect Data Form is included as **Attachment C**.

The remainder of the wetlands on the site are associated with creeks and drainage features. The majority of the northern portions of the area adjacent to Brushy Branch consisted of high banks that are well drained. These areas were similar to Plot 5 did not demonstrate wetland characteristics. The southern area adjacent to Brushy Branch consist of floodplains and were determined to be wetlands. Additionally, the southern portion of the Cowpen Creek tributary exhibited wetland characteristics. Several drainage swales are present on the tract. These drainage swales were determined to be 100% wetlands.

Sample points were selected at appropriate locations to properly characterize the soil, vegetation, and hydrology. Thirteen representative sample points were selected and detailed evaluations were conducted at these locations. The data collected at these sample points were recorded on Wetland Data Forms. The Wetland Data Forms are included as **Attachment D**.

3.0 SITE DESCRIPTION

The delineated tract is irregular in shape and is approximately 1,180 acres. The property is located approximately 4 miles west of DeRidder, along and west of Old Airport Road. The vast majority of the tract consists of pine plantation in various stages of maturity with some areas recently clear cut. A seed orchard is located in the western portion of the property. Brushy Branch and a tributary of Cowpen Creek are located on the tract. Drainage swales associated with these creeks are scattered throughout the property. The majority of the portions of the property mapped BdB, BdC, BpB, BpC, MbB, and MbC are moderately well drained to well drained and did not demonstrate wetland characteristics. These areas generally sloped towards the creeks and/or drainage swales. The majority of the CdA soils on the site exhibit a “pimple mounded” topography with

wetlands in the intermound areas and non-wetlands on the mound areas. In these mounded areas the wetlands and non-wetlands are so intermingled that they could not be mapped separately. Transects were traversed to estimate the percentage of wetlands in these areas mapped CdA. Twelve areas were determined to contain 100% wetlands. These areas stay inundated and or saturated for long periods of time. The area directly adjacent to the seed orchard facility is maintained by periodic mowing and did not demonstrate wetland characteristics. Two ponds were noted on the tract and are shown on Figure 2.

Photographs of site features and data points were taken and are included as **Attachment E**.

4.0 FINDINGS

The tract of land was inspected with respect to the potential presence of wetlands. Thirteen sample points were selected to characterize both upland and wetland areas. At these sample points, the soils, hydrology and vegetation were characterized and the information recorded on Wetland Data Forms. The findings of the delineation are described in the following sections.

4.1 VEGETATION

The typical dominant plant species that were encountered at the site included the following:

UPLAND

Rhus copallinium (Winged Sumac)

FACULTATIVE UPLAND

Plantago virginica (Pale Seed Plantain)
Rubus trivialis (Southern Dew Berry)
Viburnum dentatum (Arrow-wood)
Fagus grandifolia (American Beech)
Vaccinium arboreum (Tree Sparkle Berry)
Eupatorium capillifolium (Dogfennel)
Schizachyrium scoparium (Little Bluestem)

FACULTATIVE

Ilex vomitoria (Yaupon)
Triadica sebifera (Chinese Tallow)
Pinus taeda (Loblolly Pine)
Liquidambar styraciflua (Sweetgum)
Smilax glauca (Cat Greenbrier)

Morella cerifera (Wax Myrtle)
Ligustrum sinense (Chinese Privet)
Rubus argutus (Saw tooth Blackberry)
Pinus palustris (Longleaf Pine)
Muhlenbergia capillaris (Hair Awn Muhly)
Gelsemium sempervirens (Evening Trumpet Flower)
Andropogon virginicus (Broomsedge)
Quercus nigra (Water Oak)
Hamamelis virginiana (American Witch Hazel)
Lygodium japonicum (Japanese Climbing Fern)
Acer rubrum (Red Maple)
Symplocos tinctoria (Sweetleaf)
Ilex opaca (American Holly)

FACULTATIVE WET

Pinus elliottii (Slash Pine)
Chasmanthium laxum (Slender Wood Oats)
Panicum rigidulum (Redtop Panicum)
Axonopus fissifolius (Southern Carpet Grass)
Magnolia virginiana (Sweetbay Magnolia)
Quercus laurifolia (Laurel Oak)
Quercus michauxii (Swamp Chestnut Oak)
Smilax laurifolia (Laurel Leaf Greenbier)

OBLIGATE WETLAND

Hyptis alata (Cluster Bush Mint)
Carex glaucescens (Southern Waxy Sedge)

NO INDICATOR

Pinus echinata (Shortleaf Pine)
Solidago odora (Fragrant Goldenrod)

4.2 SOILS

The review of the Soil Survey indicated that the delineated tract is located on nine soil types: Beauregard silt loam, 1 to 3 percent slopes (BdB), Beauregard silt loam, 3 to 5 percent slopes (BdC), Blevins very fine sandy loam, 1 to 3 percent slopes (BpB), Blevins very fine sandy loam, 3 to 5 percent slopes (BpC), Caddo-Messer complex, 0 to 1 percent slopes (CdA), Guyton silt loam, 0 to 1 percent slopes, occasionally flooded (GtA), Guyton-Ouachita silt loams, frequently flooded (GYA), Malbis fine sandy loam, 1 to 3 percent slopes (MbB), and Malbis fine sandy loam, 3 to 5 percent slopes (MbC). CdA, GtA, and GYA soil types are listed as hydric Beauregard Parish.

Below is a description, from the Beauregard Parish Soil Survey prepared by the United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS), of the soils present on the property.

BdB soils are gently sloping and moderately well drained. They are on broad, slightly concave ridgetops. Areas are irregular in shape and range from 20 to 100 acres. Slopes range from 1 to 3 percent. This soil is not listed as hydric in Beauregard Parish.

BdC soils are moderately sloping and moderately well drained. They are on slightly concave side slopes. Areas are long and narrow and range from 20 to 85 acres. Slopes are short and smooth and range from 3 to 5 percent. This soil is not listed as hydric in Beauregard Parish.

BpB soils gently sloping and well drained. They are on convex ridgetops. Areas are irregular in shape and range from 20 to 300 acres. Slopes are generally long and smooth and range from 1 to 3 percent. A few small areas have mounded surfaces. This soil is not listed as hydric in Beauregard Parish.

BpC soils are moderately sloping and well drained. They are on convex ridgetops and side slopes. Areas are irregular in shape and range from 20 to 300 acres. Slopes are generally long and smooth and range from 3 to 5 percent. This soil is not listed as hydric in Beauregard Parish.

CdA soils are level to gently sloping and poorly drained to moderately well drained. The Caddo soil is on broad flats and the Messer soil is on small, convex mounds. The mounds are generally circular in shape and range from 30 to 150 feet across and from 1 to 6 feet in height. The mounds have been smoothed for cultivation in some areas. Areas are irregular in shape and range from 30 to 1,500 acres. Slopes are 0 to 1 percent. This soil is listed as hydric in Beauregard Parish.

GtA soils are level to nearly level and poorly drained. They are in narrow depressional areas and drainagways that occasionally flood. Areas are irregular in shape and range from 40 to 1,000 acres. This soil is listed as hydric in Beauregard Parish.

GYA soils are level to nearly level and are poorly drained and well drained. The Guyton soil is on low flats; the Ouachita soil is on low ridges. These soils are located in flood plains. Areas are elongated and can be up to several thousand acres. This soil is listed as hydric in Beauregard Parish.

MbB soils are gently sloping and are moderately well drained. They are on broad convex ridgetops. Slopes generally are long and smooth and range from 1 to 3 percent. Areas are irregular in shape and range from 20 to 300 acres. This soil is not listed as hydric in Beauregard Parish.

MbC soils are moderately sloping and are moderately well drained. They are on broad convex ridgetops and side slopes. Slopes are generally long and smooth and range from

3 to 5 percent. Areas are irregular in shape and range from 20 to 300 acres. This soil is not listed as hydric in Beauregard Parish.

4.3 HYDROLOGY

General observations and inspections of soil samples were performed to evaluate for wetland hydrology. Primary indicators include surface water, water stained leaves, saturated soil, oxidized rhizospheres along living roots and water marks. During the course of this delineation, primary and secondary indicators were noted on portion of the tract. One primary indicator or two secondary indicators has to be present for an area to have wetland hydrology.

5.0 CONCLUSIONS

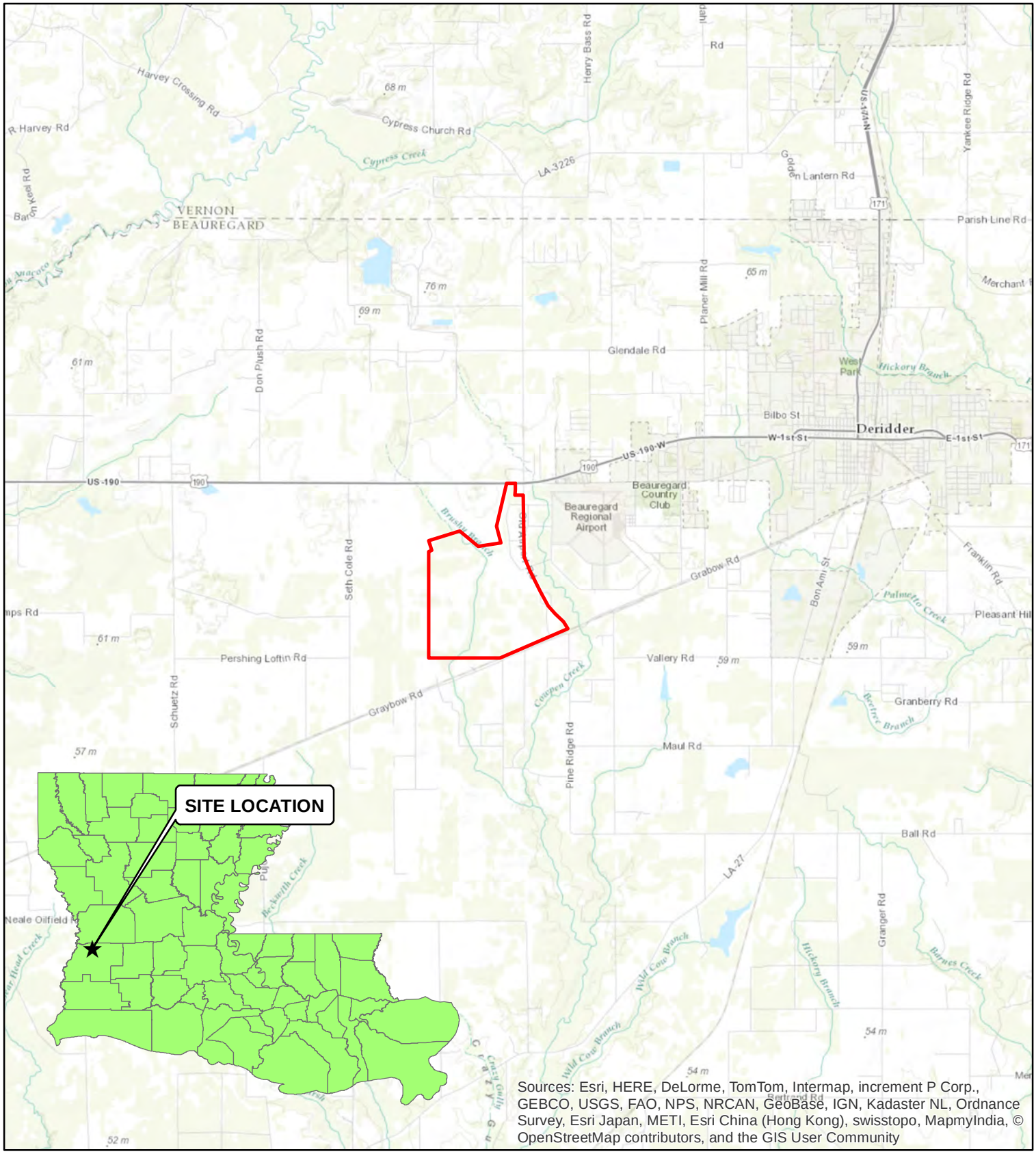
A 1,180-acre tract located along Old Airport Road in DeRidder, Beauregard Parish, Louisiana was evaluated for the presence of jurisdictional wetlands. The wetland delineation was performed in accordance with the procedures and methods as described in the COE 1987 Manual for Wetland Delineations. Based on the results of this delineation, wetlands were identified on portions of the property.

The CdA soils on the investigated property exhibits a “pimple mounded” topography with non-wetlands on the mound areas and wetland in the intermound areas. Eight transects were traversed in these mounded areas. The results of these transects were used to determine the percentage of wetlands and non-wetlands in areas observed to have similar characteristics (See Figure 2). Twelve areas were identified to contain 100% wetlands. The remainder of the tract appeared to be well drained and did not demonstrate characteristics typical of a wetland.

Based on the results of this delineation, approximately 236.7 acres of wooded wetlands were identified on the property. 203.7 acres of these wetlands are pine plantation, and 33 acres are bottomland hardwood forest. Approximately 12,500 linear feet of creeks and 0.77 acre of ponds located on the property will likely be considered “other waters” by the Corps of Engineers.

FIGURE 1

Site Location Map



0 0.75 1.5 3 Miles

APPROXIMATE SITE BOUNDARY

ARABIE ENVIRONMENTAL SOLUTIONS

BEAUREGARD REGIONAL AIRPORT
BEAUREGARD PARISH, LOUISIANA

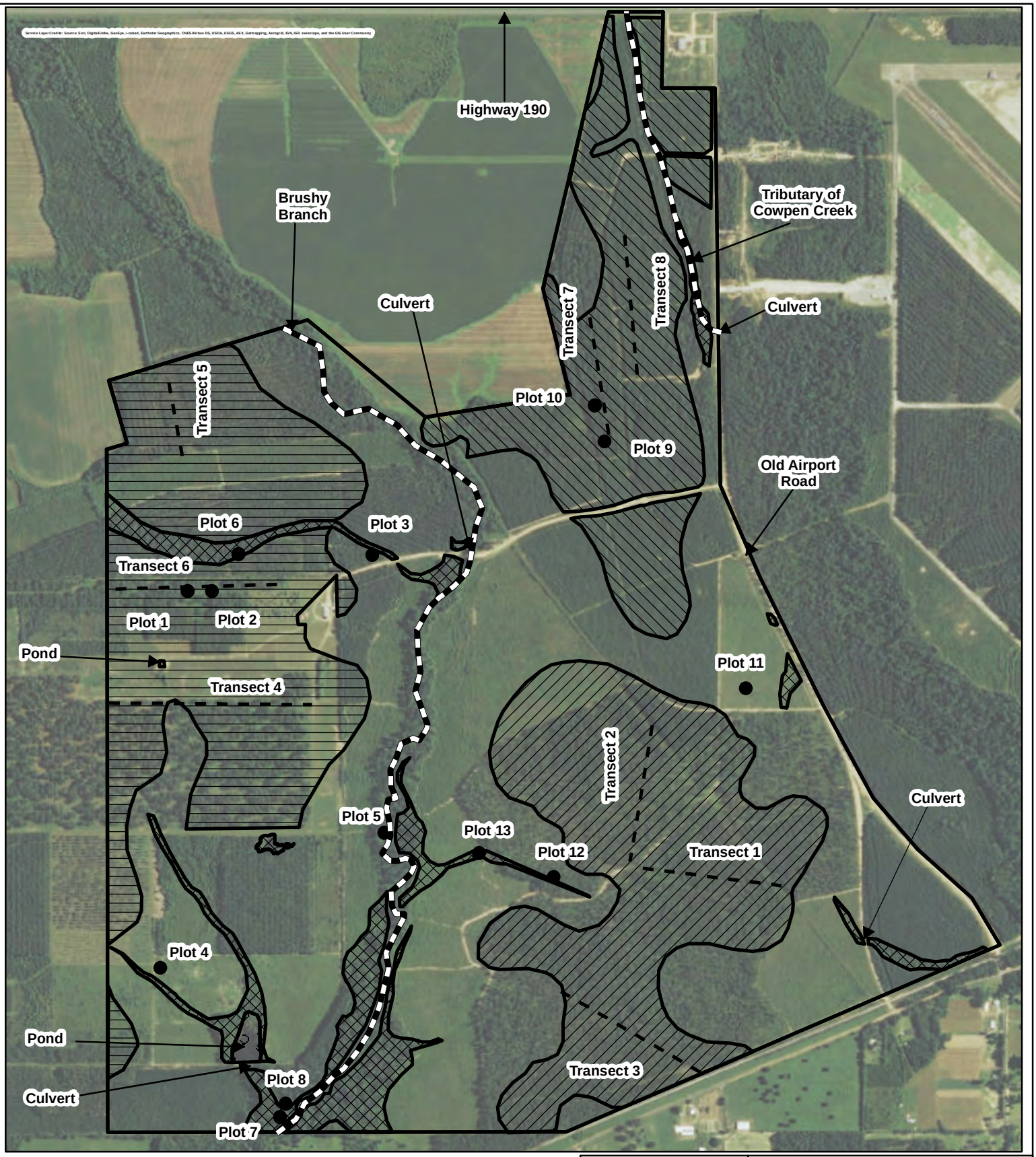
FIGURE 1
SITE LOCATION MAP

WETLAND DELINEATION
SJB GROUP LLC
BEAUREGARD REGIONAL AIRPORT

Drawn By: CRH	Date: 12/1/2015	AES Project # 11431
Checked By: CBJ	Date:	Revised:

FIGURE 2

Site Diagram



0 800 1,600 3,200 Feet

- NON-WETLANDS (942.5 ACRES)
- 38% WETLANDS (68.2 ACRES WET)
- 36% WETLANDS (71.7 ACRES WET)
- 31% WETLANDS (41.3 ACRES WET)
- 100% WETLANDS (55.5 ACRES WET)

ARABIE ENVIRONMENTAL SOLUTIONS

BEAUREGARD REGIONAL AIRPORT
BEAUREGARD PARISH, LOUISIANA

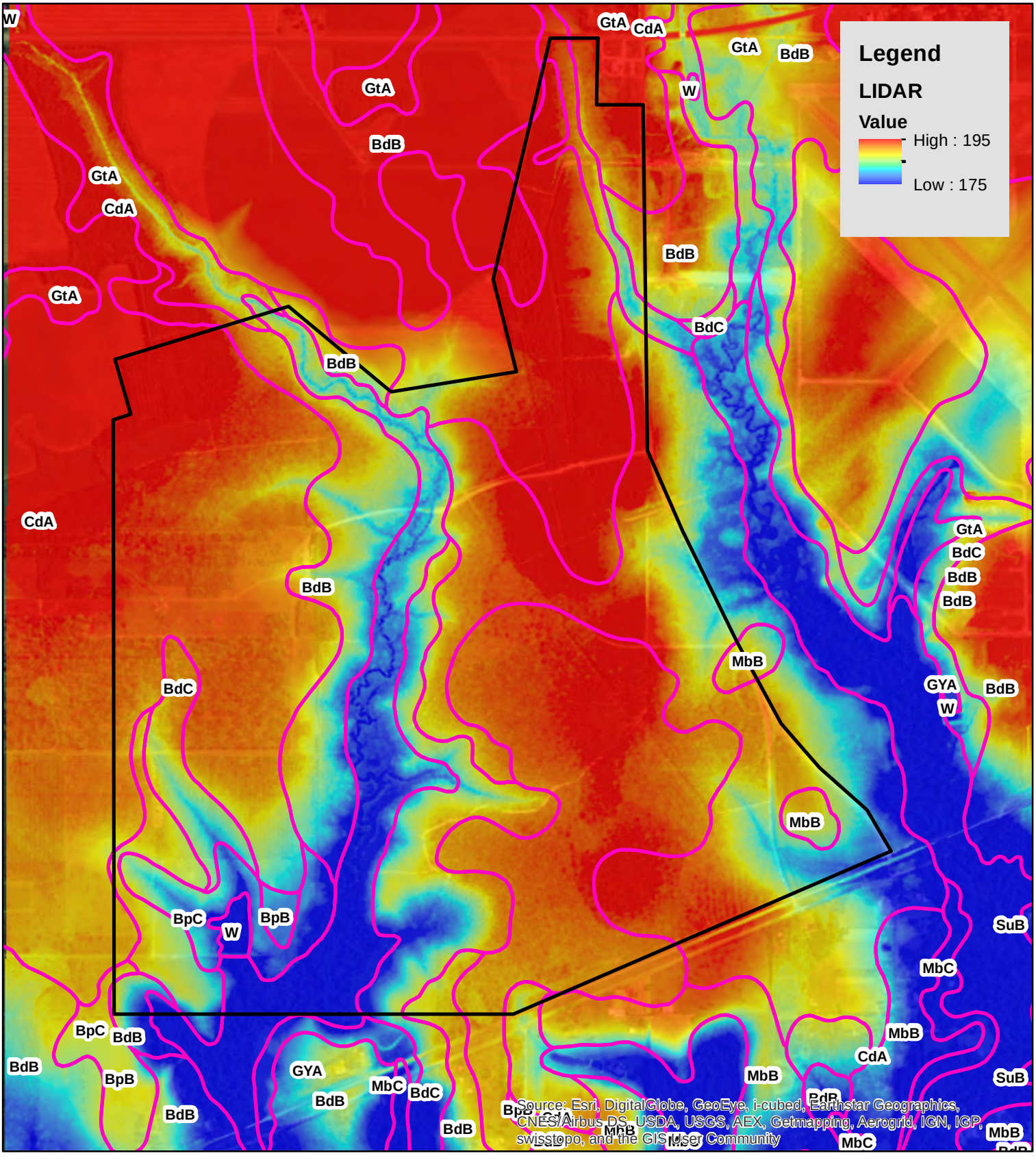
FIGURE 2
SITE DIAGRAM

WETLAND DELINEATION
SJB GROUP LLC
BEAUREGARD REGIONAL AIRPORT

Drawn By:	CRH	Date: 12/17/2015	AES Project # 11431
Checked By:	CBJ	Date: 12/18/2015	Revised:

FIGURE 3

LIDAR Imagery



0 900 1,800 3,600 Feet

APPROXIMATE SITE BOUNDARY

ARABIE ENVIRONMENTAL SOLUTIONS

BEAUREGARD REGIONAL AIRPORT
BEAUREGARD PARISH, LOUISIANA

FIGURE 3
LIDAR IMAGERY
WETLAND DELINEATION
SJB GROUP LLC
BEAUREGARD REGIONAL AIRPORT

Drawn By:	CRH	Date:	12/1/2015	AES Project #	11431
Checked By:	CBJ	Date:		Revised:	

ATTACHMENT A

Certificates of Training

Richard Chinn Environmental Training, Inc.

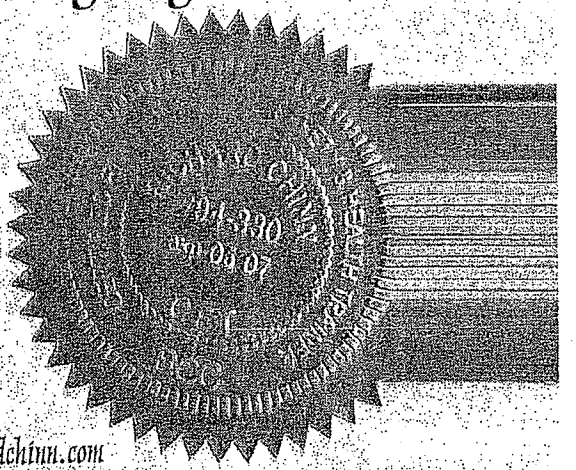
certifies that

Cleve Hoffpauir

has successfully completed a

4 day 38 hour Army Corps of Engineers Wetland Delineation Training Program

issued Certificate No. 4666 and 3.8 CEUs on this first day of June, 2007, in Austin, Texas



Richard Chinn, PWS, CET

Richard Chinn Environmental Training, Inc.
804 Cottage Hill Way, Brandon, FL 33511-8098
1.800.427.0307 • FAX: 1.888.457.6331 • info@richardchinn.com • http://www.richardchinn.com

This training has been based in part on the U. S. Army Corps of Engineers Wetlands Delineation Manual Technical Report Y-87-1 (1987 manual), as provided for in the training materials developed in conjunction with Section 307(e) of the Water Resources Development Act of 1990 for the Wetland Delineator Certification Program.

BIOTIC CONSULTANTS, Inc.

This Certifies that

Cleve Hoffpauir

Has completed the course entitled:

Wetland Plant Identification

Given at Lafayette, LA

On October 30 - November 2, 2007

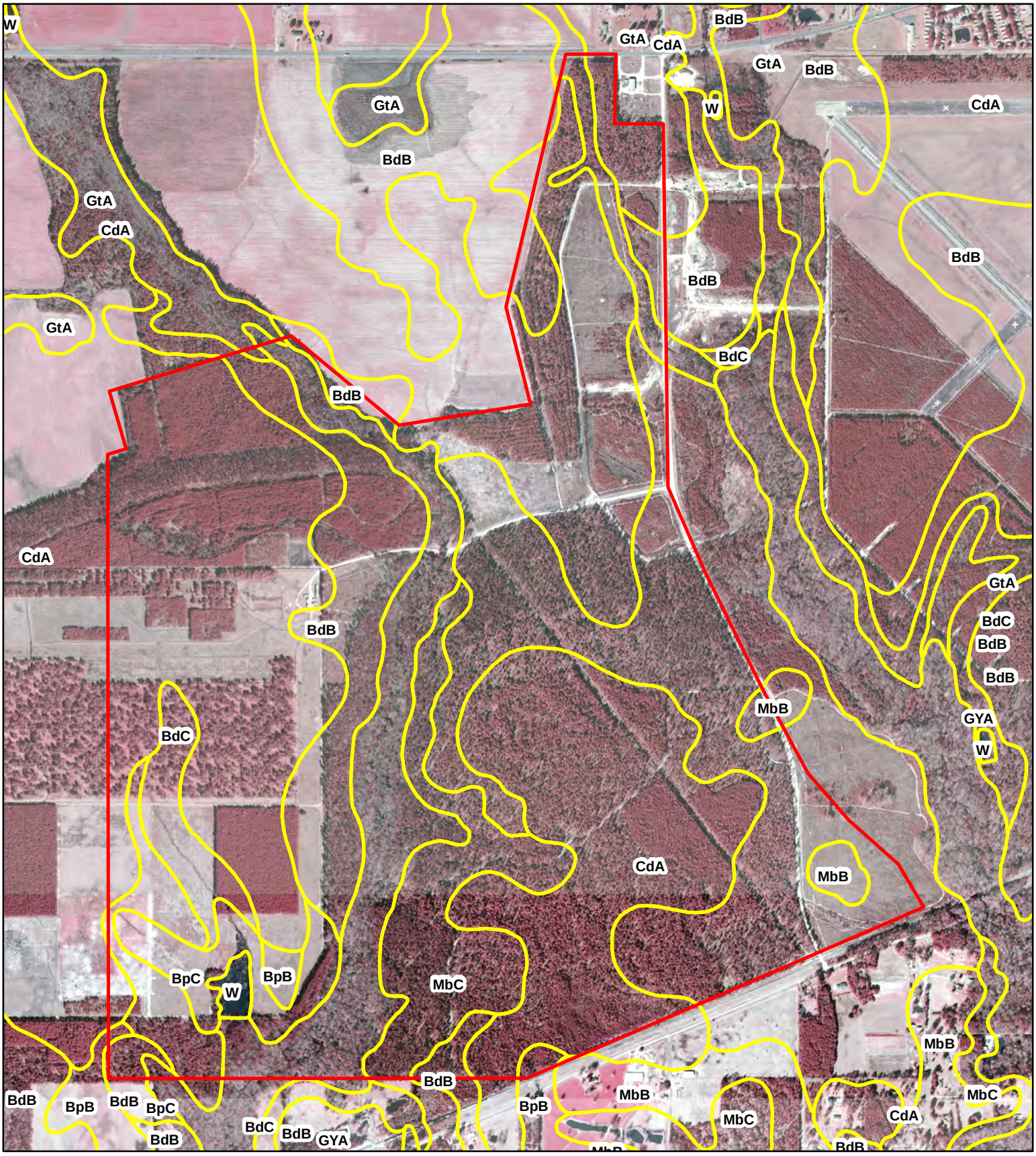
Robert H. Mohlenbrock

Course Coordinator

GA75-451

ATTACHMENT B

Infrared and Soil Maps



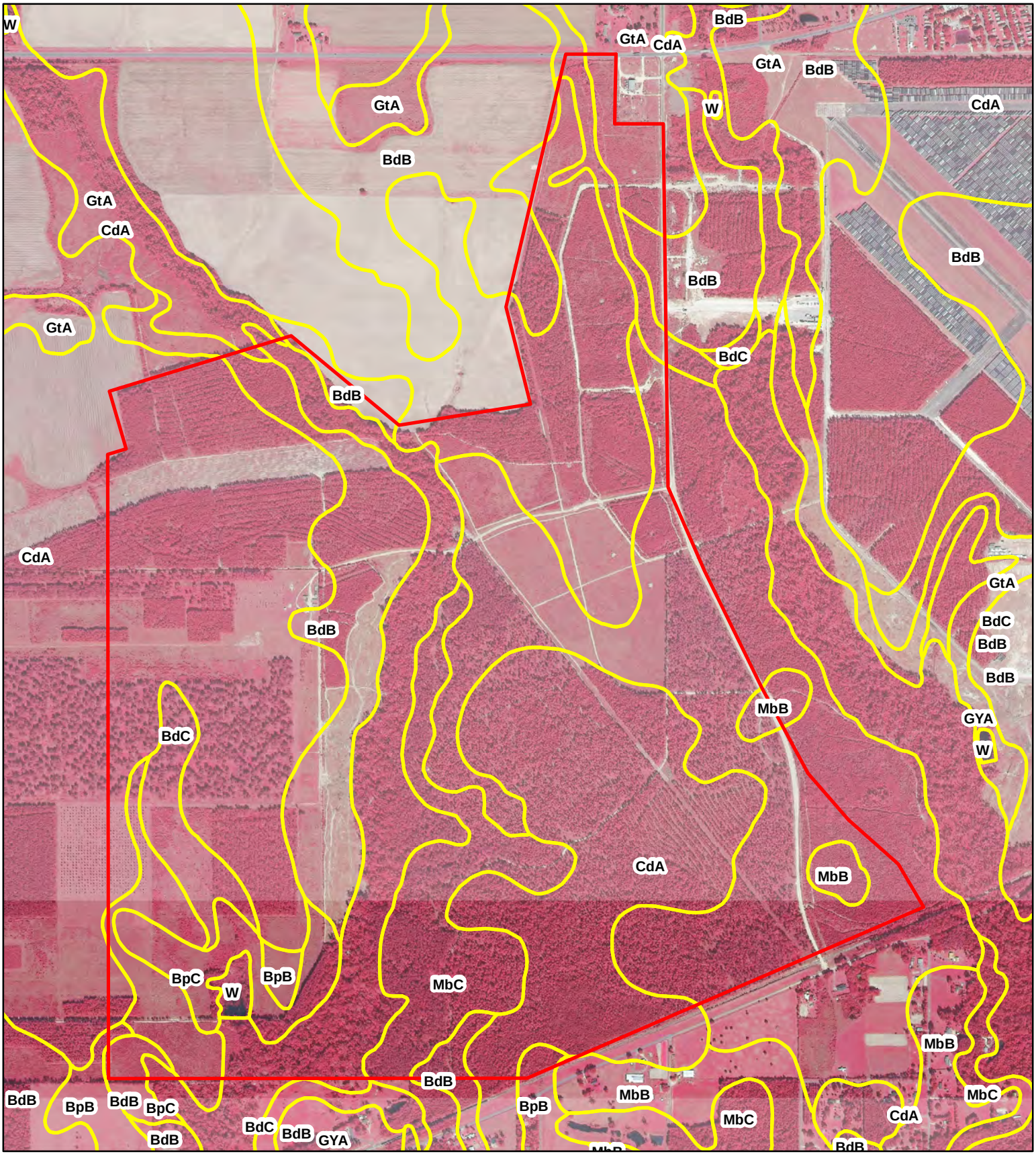
ARABIE ENVIRONMENTAL SOLUTIONS

BEAUREGARD REGIONAL AIRPORT
BEAUREGARD PARISH, LOUISIANA

ATTACHMENT B
INFRARED AND SOIL MAP

WETLAND DELINEATION
SJB GROUP LLC
BEAUREGARD REGIONAL AIRPORT

Drawn By:	CRH	Date:	12/1/2015	AES Project #	11431
Checked By:	CBJ	Date:		Revised:	



ARABIE ENVIRONMENTAL SOLUTIONS

BEAUREGARD REGIONAL AIRPORT
BEAUREGARD PARISH, LOUISIANA

ATTACHMENT B
INFRARED AND SOIL MAP

WETLAND DELINEATION
SJB GROUP LLC
BEAUREGARD REGIONAL AIRPORT

Drawn By:	CRH	Date:	12/1/2015	AES Project #	11431
Checked By:	CBJ	Date:		Revised:	

ATTACHMENT C

Transect Data

WETLAND DELINEATION TRANSECT FORM

PROJECT/SITE: Beauregard Airport Tract **APPLICANT/OWNER:** SJB Group LLC

TRANSECT ID #: 1 **INVESTIGATOR(S):** C. Hoffpauir

LOCATION: CdA soil type, traversing from east to west.

Counter Numbers:

				Total Feet
0	to	16	wet	16
16	to	133	up	117
133	to	160	wet	27
160	to	216	up	56
216	to	258	wet	42
258	to	298	up	40
298	to	342	wet	44
342	to	460	up	118
460	to	510	wet	50
510	to	568	up	58
568	to	610	wet	42
610	to	634	up	24
634	to	643	wet	9
643	to	722	up	79
722	to	754	wet	32
754	to	789	up	35
789	to	800	wet	11
800	to	831	up	31
831	to	854	wet	23
854	to	885	up	31
885	to	951	wet	66
951	to	1002	up	51
1002	to	1049	wet	47
1049	to	1067	up	18
1067	to	1082	wet	15
1082	to	1124	up	42
1124	to	1167	wet	43
1167	to	1201	up	34
1201	to	1223	wet	22
1223	to	1278	up	55
1278	to	1320	wet	42
1320	to	1343	up	23
		Total:		**1343**

Total Upland Linear Feet	**812**
Total Wetland Linear Feet	**531**
% UPLAND	**60%**
% WETLAND	**40%**

WETLAND DELINEATION TRANSECT FORM

PROJECT/SITE: Beauregard Airport Property **APPLICANT/OWNER:** SJB Group LLC

TRANSECT ID #: 2 **INVESTIGATOR(S):** C. Hoffpauir

LOCATION: CdA soil type, traversing south to north.

Counter Numbers:

				Total Feet
0	to	**21**	wet	**21**
21	to	**61**	up	**40**
61	to	**85**	wet	**24**
85	to	**149**	up	**64**
149	to	**220**	wet	**71**
220	to	**364**	up	**144**
364	to	**398**	wet	**34**
398	to	**445**	up	**47**
445	to	**474**	wet	**29**
474	to	**502**	up	**28**
502	to	**520**	wet	**18**
520	to	**579**	up	**59**
579	to	**606**	wet	**27**
606	to	**704**	up	**98**
704	to	**742**	wet	**38**
742	to	**817**	up	**75**
817	to	**844**	wet	**27**
844	to	**882**	up	**38**
882	to	**896**	wet	**14**
896	to	**1019**	up	**123**
1019	to	**1047**	wet	**28**
1047	to	**1063**	up	**16**
1063	to	**1074**	wet	**11**
1074	to	**1092**	up	**18**
1092	to	**1118**	wet	**26**
1118	to	**1155**	up	**37**
1155	to	**1180**	wet	**25**
1180	to	**1242**	up	**62**
1242	to	**1285**	wet	**43**
		Total:		**1285**

Total Upland Linear Feet	**849**
Total Wetland Linear Feet	**436**
% UPLAND	**66%**
% WETLAND	**34%**

WETLAND DELINEATION TRANSECT FORM

PROJECT/SITE: Beauregard Airport Tract **APPLICANT/OWNER:** SJB Group LLC

TRANSECT ID #: 3 **INVESTIGATOR(S):** C. Hoffpauir

LOCATION: CdA soils, traversing from southeast to northwest.

Counter Numbers:

				Total Feet
0	to	**62**	wet	**62**
62	to	**89**	up	**27**
89	to	**120**	wet	**31**
120	to	**172**	up	**52**
172	to	**258**	wet	**86**
258	to	**303**	up	**45**
303	to	**371**	wet	**68**
371	to	**441**	up	**70**
441	to	**457**	wet	**16**
457	to	**510**	up	**53**
510	to	**529**	wet	**19**
529	to	**605**	up	**76**
605	to	**634**	wet	**29**
634	to	**719**	up	**85**
719	to	**736**	wet	**17**
736	to	**757**	up	**21**
757	to	**773**	wet	**16**
773	to	**857**	up	**84**
857	to	**889**	wet	**32**
889	to	**987**	up	**98**
987	to	**1001**	wet	**14**
1001	to	**1099**	up	**98**
1099	to	**1113**	wet	**14**
1113	to	**1152**	up	**39**
1152	to	**1173**	wet	**21**
1173	to	**1274**	up	**101**
1274	to	**1354**	wet	**80**
1354	to	**1413**	up	**59**
1413	to	**1428**	wet	**15**
1428	to	**1459**	up	**31**
1459	to	**1569**	wet	**110**
		Total:		**1569**

Total Upland Linear Feet	**939**
Total Wetland Linear Feet	**630**
% UPLAND	**60%**
% WETLAND	**40%**

WETLAND DELINEATION TRANSECT FORM

PROJECT/SITE: Beauregard Airport Property **APPLICANT/OWNER:** SJB Group LLC

TRANSECT ID #: 4 **INVESTIGATOR(S):** C. Hoffpauir

LOCATION: CdA soils, traversing west to east.

Counter Numbers:

				Total Feet
0	to	**0**	wet	**0**
0	to	**17**	up	**17**
17	to	**26**	wet	**9**
26	to	**84**	up	**58**
84	to	**107**	wet	**23**
107	to	**161**	up	**54**
161	to	**260**	wet	**99**
260	to	**372**	up	**112**
372	to	**405**	wet	**33**
405	to	**464**	up	**59**
464	to	**539**	wet	**75**
539	to	**796**	up	**257**
796	to	**836**	wet	**40**
836	to	**878**	up	**42**
878	to	**1004**	wet	**126**
1004	to	**1079**	up	**75**
1079	to	**1151**	wet	**72**
1151	to	**1214**	up	**63**
1214	to	**1233**	wet	**19**
1233	to	**1425**	up	**192**
1425	to	**1529**	wet	**104**
1529	to	**1565**	up	**36**
1565	to	**1595**	wet	**30**
1595	to	**1640**	up	**45**
		Total:		**1640**

Total Upland Linear Feet **1010**

Total Wetland Linear Feet **630**

% UPLAND **62%**

% WETLAND **38%**

WETLAND DELINEATION TRANSECT FORM

PROJECT/SITE: Beauregard Airport Property **APPLICANT/OWNER:** SJB Group LLC

TRANSECT ID #: 5 **INVESTIGATOR(S):** C. Hoffpauir

LOCATION: CdA soils, traversing from north to south.

Counter Numbers:

				Total Feet
0	to	**0**	wet	**0**
0	to	**35**	up	**35**
35	to	**63**	wet	**28**
63	to	**93**	up	**30**
93	to	**118**	wet	**25**
118	to	**146**	up	**28**
146	to	**166**	wet	**20**
166	to	**305**	up	**139**
305	to	**317**	wet	**12**
317	to	**394**	up	**77**
394	to	**426**	wet	**32**
426	to	**482**	up	**56**
482	to	**508**	wet	**26**
508	to	**587**	up	**79**
587	to	**618**	wet	**31**
		Total:		**618**

Total Upland Linear Feet	**444**
Total Wetland Linear Feet	**174**
% UPLAND	**72%**
% WETLAND	**28%**

WETLAND DELINEATION TRANSECT FORM

PROJECT/SITE: Beauregard Airport Property **APPLICANT/OWNER:** SJB Group LLC

TRANSECT ID #: 6 **INVESTIGATOR(S):** C. Hoffpauir

LOCATION: CdA soils, traversing west to east.

Counter Numbers:

				Total Feet
0	to	**0**	wet	**0**
0	to	**85**	up	**85**
85	to	**118**	wet	**33**
118	to	**158**	up	**40**
158	to	**183**	wet	**25**
183	to	**214**	up	**31**
214	to	**265**	wet	**51**
265	to	**298**	up	**33**
298	to	**372**	wet	**74**
372	to	**417**	up	**45**
417	to	**437**	wet	**20**
437	to	**465**	up	**28**
465	to	**479**	wet	**14**
479	to	**520**	up	**41**
520	to	**552**	wet	**32**
552	to	**585**	up	**33**
585	to	**705**	wet	**120**
705	to	**743**	up	**38**
743	to	**825**	wet	**82**
825	to	**989**	up	**164**
989	to	**1018**	wet	**29**
1018	to	**1085**	up	**67**
1085	to	**1154**	wet	**69**
1154	to	**1292**	up	**138**
1292	to	**1311**	wet	**19**
1311	to	**1333**	up	**22**
1333	to	**1364**	wet	**31**
1364	to	**1476**	up	**112**
1476	to	**1514**	wet	**38**
1514	to	**1535**	up	**21**
1535	to	**1562**	wet	**27**
		Total:		**1562**

Total Upland Linear Feet	**898**
Total Wetland Linear Feet	**664**
% UPLAND	**57%**
% WETLAND	**43%**

WETLAND DELINEATION TRANSECT FORM

PROJECT/SITE: Beauregard Airport Property **APPLICANT/OWNER:** SJB Group LLC

TRANSECT ID #: 7 **INVESTIGATOR(S):** C. Hoffpauir

LOCATION: CdA soils, traversing from south to north.

Counter Numbers:

				Total Feet
0	to	**0**	wet	**0**
0	to	**34**	up	**34**
34	to	**50**	wet	**16**
50	to	**64**	up	**14**
64	to	**75**	wet	**11**
75	to	**112**	up	**37**
112	to	**158**	wet	**46**
158	to	**205**	up	**47**
205	to	**217**	wet	**12**
217	to	**243**	up	**26**
243	to	**340**	wet	**97**
340	to	**460**	up	**120**
460	to	**520**	wet	**60**
520	to	**537**	up	**17**
537	to	**630**	wet	**93**
630	to	**653**	up	**23**
653	to	**668**	wet	**15**
668	to	**718**	up	**50**
718	to	**746**	wet	**28**
746	to	**936**	up	**190**
936	to	**953**	wet	**17**
953	to	**1028**	up	**75**
1028	to	**1035**	wet	**7**
1035	to	**1184**	up	**149**
		Total:		**1184**

Total Upland Linear Feet **782**

Total Wetland Linear Feet **402**

% UPLAND **66%**

% WETLAND **34%**

WETLAND DELINEATION TRANSECT FORM

PROJECT/SITE: Beauregard Airport Property **APPLICANT/OWNER:** SJB Group LLC

TRANSECT ID #: 8 **INVESTIGATOR(S):** C. Hoffpauir

LOCATION: CdA soils, traversing from north to south.

Counter Numbers:

				Total Feet
0	to	**22**	wet	**22**
22	to	**55**	up	**33**
55	to	**81**	wet	**26**
81	to	**123**	up	**42**
123	to	**139**	wet	**16**
139	to	**165**	up	**26**
165	to	**182**	wet	**17**
182	to	**204**	up	**22**
204	to	**254**	wet	**50**
254	to	**297**	up	**43**
297	to	**337**	wet	**40**
337	to	**423**	up	**86**
423	to	**447**	wet	**24**
447	to	**503**	up	**56**
503	to	**530**	wet	**27**
530	to	**642**	up	**112**
642	to	**696**	wet	**54**
696	to	**787**	up	**91**
787	to	**823**	wet	**36**
823	to	**995**	up	**172**
995	to	**1025**	wet	**30**
1025	to	**1082**	up	**57**
1082	to	**1107**	wet	**25**
1107	to	**1330**	up	**223**
		Total:		**1330**

Total Upland Linear Feet	**963**
Total Wetland Linear Feet	**367**
% UPLAND	**72%**
% WETLAND	**28%**

ATTACHMENT D

Wetland Data Forms

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-11-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 1

Investigator(s): C. Hoffpauir / J. McDaniel Section, Township, Range: S2 T3S R10W

Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 0

Subregion (LRR or MLRA): LRR-T Lat: 464717 Long: 3410179 Datum: NAD 83

Soil Map Unit Name: Caddo-Messer complex, 0 to 1 percent slopes (CdA) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation No, Soil No, or Hydrology No 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 X	No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X	No _____	
Wetland Hydrology Present?	Yes X	No _____	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- [x] Surface Water (A1)
- [x] High Water Table (A2)
- [x] Saturation (A3)
- [ ] Water Marks (B1)
- [ ] Sediment Deposits (B2)
- [ ] Drift Deposits (B3)
- [ ] Algal Mat or Crust (B4)
- [ ] Iron Deposits (B5)
- [ ] Inundation Visible on Aerial Imagery (B7)
- [x] Water-Stained Leaves (B9)
- [ ] Aquatic Fauna (B13)
- [ ] Marl Deposits (B15) **(LRR U)**
- [ ] Hydrogen Sulfide Odor (C1)
- [x] Oxidized Rhizospheres along Living Roots (C3)
- [ ] Presence of Reduced Iron (C4)
- [ ] Recent Iron Reduction in Tilled Soils (C6)
- [ ] Thin Muck Surface (C7)
- [ ] Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- [ ] Surface Soil Cracks (B6)
- [ ] Sparsely Vegetated Concave Surface (B8)
- [ ] Drainage Patterns (B10)
- [ ] Moss Trim Lines (B16)
- [ ] Dry-Season Water Table (C2)
- [x] Crayfish Burrows (C8)
- [ ] Saturation Visible on Aerial Imagery (C9)
- [ ] Geomorphic Position (D2)
- [ ] Shallow Aquitard (D3)
- [x] FAC-Neutral Test (D5)
- [ ] Sphagnum moss (D8) **(LRR T, U)**

Field Observations:

Surface Water Present?	Yes X	No _____	Depth (inches): 0-2"
Water Table Present?	Yes X	No _____	Depth (inches): @ 9"
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches): 9-16"

Wetland Hydrology Present? Yes X No _____

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

Remarks:

Standing water in areas
Soil Saturated

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

Sampling Point: 1

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Triadica sebifera	5	YES	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	5 = Total Cover		
50% of total cover: 2.5	20% of total cover: 1		
Sapling/Shrub Stratum (Plot size: 30)			
1. Triadica sebifera	10	YES	FAC
2. Pinus taeda	5	YES	FAC
3. Baccharis halimifolia	2	NO	FAC
4.			
5.			
6.			
7.			
8.			
	17 = Total Cover		
50% of total cover: 8.5	20% of total cover: 3.4		
Herb Stratum (Plot size: 30)			
1. Panicum rigidulum	20	YES	FACW
2. Axonopus fissifolius	20	YES	FACW
3. Rhynchospora caduca	10	NO	OBL
4. Andropogon virginicus	10	NO	FAC
5. Andropogon glomeratus	5	NO	FACW
6. Hyptis alata	2	NO	OBL
7.			
8.			
9.			
10.			
11.			
12.			
	67 = Total Cover		
50% of total cover: 33.5	20% of total cover: 13.4		
Woody Vine Stratum (Plot size: 30)			
1. Rubus argutus	5	YES	FAC
2.			
3.			
4.			
5.			
	5 = Total Cover		
50% of total cover: 2.5	20% of total cover: 1		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: 1

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10 Yr 4/1	95	7.5 Yr 4/6	5	C	PL	Silt Loam	Saturated
4-10	10 Yr 6/2	90	7.5 Yr 4/6	10	C	PL	Silt Loam	Saturated
10-16	10 Yr 6/2	80	7.5 Yr 4/6	20	C	M, PL	Silt Loam	Saturated

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

[2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-11-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 2

Investigator(s): C. Hoffpauir / J. McDaniel Section, Township, Range: S2 T3S R10W

Landform (hillslope, terrace, etc.): Mound Local relief (concave, convex, none): Convex Slope (%): 1-3

Subregion (LRR or MLRA): LRR-T Lat: 464790 Long: 3410175 Datum: NAD 83

Soil Map Unit Name: Caddo-Messer complex, 0 to 1 percent slopes (CdA) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation No, Soil No, or Hydrology No 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 X No _____	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____ No X	
Wetland Hydrology Present?	Yes _____ No X	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ 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 X	Depth (inches): _____
Water Table Present?	Yes _____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

No wetland hydrology Observed

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: 2

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus taeda	20	YES	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	20 = Total Cover		
50% of total cover: 10	20% of total cover: 4		
Sapling/Shrub Stratum (Plot size: 30)			
1. Ilex vomitoria	20	YES	FAC
2. Triadica sebifera	10	NO	FAC
3. Pinus taeda	5	NO	FAC
4. Ligustrum sinense	5	NO	FAC
5. Morella cerifera	5	NO	FAC
6. Prunus serotina	2	NO	FACU
7. Quercus falcata	2	NO	FACU
8. Baccharis halimifolia	2	NO	FAC
	51 = Total Cover		
50% of total cover: 25.5	20% of total cover: 10.2		
Herb Stratum (Plot size: 30)			
1. Solidago odora	30	YES	NI
2. Solidago altissima	5	NO	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	35 = Total Cover		
50% of total cover: 17.5	20% of total cover: 7		
Woody Vine Stratum (Plot size: 30)			
1. Rubus argutus	10	YES	FAC
2. Smilax glauca	2	NO	FAC
3.			
4.			
5.			
	12 = Total Cover		
50% of total cover: 6	20% of total cover: 2.4		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: 2

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10 Yr 3/1	100					Silt Loam	
8-16	10 Yr 6/4	98	7.5 Yr 5/6	2	C	M, PL	Silt Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-11-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 3

Investigator(s): C. Hoffpauir / J. McDaniel Section, Township, Range: S2 T3S R10W

Landform (hillslope, terrace, etc.): Slope Local relief (concave, convex, none): Convex Slope (%): 1-3

Subregion (LRR or MLRA): LRR-T Lat: 465249 Long: 3410283 Datum: NAD 83

Soil Map Unit Name: Beauregard silt loam, 1 to 3 percent slopes (BdB) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation No, Soil No, or Hydrology No 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 X No _____	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____ No X	
Wetland Hydrology Present?	Yes _____ No X	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ 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 X	Depth (inches): _____
Water Table Present?	Yes _____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

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

Sampling Point: 3

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus elliottii	10	YES	FACW
2. Pinus palustris	10	YES	FAC
3. Pinus taeda	2	NO	FAC
4. Liquidambar styraciflua	2	NO	FAC
5.			
6.			
7.			
8.			
	24	= Total Cover	

50% of total cover: 12 20% of total cover: 4.8

Sapling/Shrub Stratum (Plot size: 30)			
1. Liquidambar styraciflua	60	YES	FAC
2. Magnolia virginiana	10	NO	FACW
3. Ilex vomitoria	5	NO	FAC
4. Triadica sebifera	2	NO	FAC
5. Sassafras albidum	2	NO	FACU
6. Ilex opaca	2	NO	FAC
7.			
8.			
	81	= Total Cover	

50% of total cover: 40.5 20% of total cover: 16.2

Herb Stratum (Plot size: 30)			
1. Magnolia virginiana	10	YES	FACW
2. Muhlenbergia capillaris	10	YES	FAC
3. Morella cerifera	5	NO	FAC
4. Andropogon virginicus	5	NO	FAC
5. Liquidambar styraciflua	2	NO	FAC
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	32	= Total Cover	

50% of total cover: 16 20% of total cover: 6.4

Woody Vine Stratum (Plot size: 30)			
1. Rubus argutus	10	YES	FAC
2. Smilax glauca	10	YES	FAC
3. Gelsemium sempervirens	5	YES	FAC
4.			
5.			
	25	= Total Cover	

50% of total cover: 12.5 20% of total cover: 5

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: 3

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-3	10 Yr 3/2	100					Silt Loam	
3-6	10 Yr 4/2	100					Silt Loam	
6-12	10 Yr 5/4	100					Silt Loam	
12-16	10 Yr 5/6	100					Silt Loam	

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

[2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-11-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 4

Investigator(s): C. Hoffpauir / J. McDaniel Section, Township, Range: S10 T3S R10W

Landform (hillslope, terrace, etc.): Slope Local relief (concave, convex, none): Convex Slope (%): 3-5

Subregion (LRR or MLRA): LRR-T Lat: 464640 Long: 3409098 Datum: UTM NAD 83

Soil Map Unit Name: Blevins very fine sandy loam, 3 to 5 percent slopes (BpC) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X

Are Vegetation No, Soil No, or Hydrology No 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 X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____	No X	
Wetland Hydrology Present?	Yes _____	No X	

Remarks:

Area recently prescribed burned.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ 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 X	Depth (inches): _____
Water Table Present?	Yes _____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

Area is well drained, slopes significantly.

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: 4

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. NONE	N/A	N/A	N/A
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	N/A = Total Cover		
50% of total cover: N/A	20% of total cover: N/A		
Sapling/Shrub Stratum (Plot size: 30)			
1. Morella cerifera	30	YES	FAC
2. Rhus copallinum	10	YES	UPL
3. Baccharis halimifolia	5	NO	FAC
4. Liquidambar styraciflua	5	NO	FAC
5.			
6.			
7.			
8.			
	50 = Total Cover		
50% of total cover: 25	20% of total cover: 10		
Herb Stratum (Plot size: 30)			
1. Andropogon virginicus	40	YES	FAC
2. Plantago virginica	5	YES	FACU
3. Nothoscordum bivalve	2	NO	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	47 = Total Cover		
50% of total cover: 23.5	20% of total cover: 9.4		
Woody Vine Stratum (Plot size: 30)			
1. Rubus trivialis	5	YES	FACU
2.			
3.			
4.			
5.			
	5 = Total Cover		
50% of total cover: 2.5	20% of total cover: 1		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No X

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

Vegetation in this area recently burned.

SOIL

Sampling Point: 4

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-9	10 Yr 3/2	100					Silt Loam	
9-12	10 Yr 5/3	100					Silt Loam	
12-16	10 Yr 5/8	100					Silty Clay	

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

[2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-11-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 5

Investigator(s): C. Hoffpauir / J. McDaniel Section, Township, Range: S11 T3S R10W

Landform (hillslope, terrace, etc.): Ridge along creek Local relief (concave, convex, none): Convex Slope (%): 1-3

Subregion (LRR or MLRA): LRR-T Lat: 465284 Long: 3409488 Datum: NAD 83

Soil Map Unit Name: Guyton-Ouachita silt loams, frequently flooded (GYA) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation No, Soil No, or Hydrology No 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 X No _____	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____ No X	
Wetland Hydrology Present?	Yes _____ No X	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ 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 X	Depth (inches): _____
Water Table Present?	Yes _____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

No wetland hydrology observed

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

Sampling Point: 5

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus echinata	10	YES	NI
2. Quercus nigra	10	YES	FAC
3. Quercus alba	5	NO	FACU
4. Nyssa sylvatica	2	NO	FAC
5. Quercus stellata	2	NO	UPL
6.			
7.			
8.			
	29	= Total Cover	

50% of total cover: 14.5 20% of total cover: 5.8

Sapling/Shrub Stratum (Plot size: 30)			
1. Quercus nigra	30	YES	FAC
2. Hamamelis virginiana	10	NO	FACU
3. Ligustrum sinense	10	NO	FAC
4. Aralia spinosa	5	NO	FAC
5. Liquidambar styraciflua	5	NO	FAC
6. Magnolia virginiana	2	NO	FACW
7.			
8.			
	62	= Total Cover	

50% of total cover: 31 20% of total cover: 12.4

Herb Stratum (Plot size: 30)			
1. Ligustrum sinense	10	YES	FAC
2. Quercus nigra	10	YES	FAC
3. Hamamelis virginiana	5	YES	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	25	= Total Cover	

50% of total cover: 12.5 20% of total cover: 5

Woody Vine Stratum (Plot size: 30)			
1. Lygodium japonicum	10	YES	FAC
2.			
3.			
4.			
5.			
	10	= Total Cover	

50% of total cover: 5 20% of total cover: 2

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 71 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: 5

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-6	10 Yr 3/2	100					Silt Loam	
6-16	10 Yr 5/3	100					Silt Loam	

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

[2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-11-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 6

Investigator(s): C. Hoffpauir / J. McDaniel Section, Township, Range: S2 T3S R10W

Landform (hillslope, terrace, etc.): Drainage swale Local relief (concave, convex, none): Concave Slope (%): 0

Subregion (LRR or MLRA): LRR-T Lat: 464861 Long: 3410282 Datum: NAD 83

Soil Map Unit Name: Caddo-Messer complex, 0 to 1 percent slopes (CdA) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation No, Soil No, or Hydrology No 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 X No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X No _____	
Wetland Hydrology Present?	Yes X No _____	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☑ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ 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 X	Depth (inches): _____
Water Table Present?	Yes _____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches): 0-16"

Wetland Hydrology Present? Yes X No _____

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

Remarks:

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

Sampling Point: 6

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus elliottii	30	YES	FACW
2. Triadica sebifera	10	YES	FAC
3. Acer rubrum	5	NO	FAC
4.			
5.			
6.			
7.			
8.			
	45	= Total Cover	
50% of total cover: 22.5		20% of total cover: 9	

Sapling/Shrub Stratum (Plot size: 30)			
1. Morella cerifera	20	YES	FAC
2. Triadica sebifera	10	YES	FAC
3. Ligustrum sinense	5	NO	FAC
4. Baccharis halimifolia	2	NO	FAC
5. Acer rubrum	2	NO	FAC
6. Ilex vomitoria	2	NO	FAC
7.			
8.			
	41	= Total Cover	
50% of total cover: 20.5		20% of total cover: 8.2	

Herb Stratum (Plot size: 30)			
1. Hyptis alata	5	YES	OBL
2. Acer rubrum	5	YES	FAC
3. Triadica sebifera	5	YES	FAC
4. Ligustrum sinense	5	YES	FAC
5. Andropogon virginicus	5	YES	FAC
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	25	= Total Cover	
50% of total cover: 12.5		20% of total cover: 5	

Woody Vine Stratum (Plot size: 30)			
1. Rubus argutus	10	YES	FAC
2. Lygodium japonicum	5	YES	FAC
3.			
4.			
5.			
	15	= Total Cover	
50% of total cover: 7.5		20% of total cover: 3	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 11 (A)

Total Number of Dominant Species Across All Strata: 11 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: 6

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-12	10 Yr 5/1	98	10 Yr 4/6	2	C	PL	Silt Loam	Saturated
12-16	10 Yr 5/2	90	7.5 Yr 4/6	10	C	M, PL	Silt Loam	Saturated, Fe/Mn masses

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

[2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-15-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 7

Investigator(s): C. Hoffpauir Section, Township, Range: S11 T3S R10W

Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): None Slope (%): 0

Subregion (LRR or MLRA): LRR-T Lat: 464983 Long: 3408668 Datum: UTM NAD 83

Soil Map Unit Name: Guyton-Ouachita Silt Loams, Frequently Flooded (GYA) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation No, Soil No, or Hydrology No 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 X No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X No _____	
Wetland Hydrology Present?	Yes X No _____	

Remarks:

Recent Rainfall

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☑ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☑ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ 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 X	No _____	Depth (inches): 0-1"
Water Table Present?	Yes X	No _____	Depth (inches): @ 8" BGS
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches): 0-16"

Wetland Hydrology Present? Yes X No _____

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

Remarks:

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

Sampling Point: 7

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Quercus laurifolia	30	YES	FACW
2. Quercus michauxii	10	YES	FACW
3. Liquidambar styraciflua	5	NO	FAC
4.			
5.			
6.			
7.			
8.			
	45	= Total Cover	

50% of total cover: 22.5 20% of total cover: 9

Sapling/Shrub Stratum (Plot size: 30)			
1. Ligustrum sinense	20	YES	FAC
2. Viburnum dentatum	5	YES	FACU
3.			
4.			
5.			
6.			
7.			
8.			
	25	= Total Cover	

50% of total cover: 12.5 20% of total cover: 5

Herb Stratum (Plot size: 30)			
1. Chasmanthium laxum	20	YES	FACW
2. Ligustrum sinense	10	YES	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	30	= Total Cover	

50% of total cover: 15 20% of total cover: 6

Woody Vine Stratum (Plot size: 30)			
1. Lygodium japonicum	5	YES	FAC
2.			
3.			
4.			
5.			
	5	= Total Cover	

50% of total cover: 2.5 20% of total cover: 1

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 86 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: 7

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10 YR 5/2	100					Silt Loam	Saturated
3-9	10 YR 4/2	100					Silt Loam	Saturated
9-16	10 YR 5/2	90	7.5 YR 4/6	10	C	M, PL	Silt Loam	Saturated

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

[2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-15-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 8

Investigator(s): C. Hoffpauir Section, Township, Range: S11 T3S R10W

Landform (hillslope, terrace, etc.): Ridge Local relief (concave, convex, none): Convex Slope (%): 1-5

Subregion (LRR or MLRA): LRR-T Lat: 464996 Long: 3408704 Datum: UTM NAD 83

Soil Map Unit Name: Guyton-Ouachita Silt Loams, Frequently Flooded (GYA) 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 No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation No, Soil No, or Hydrology No 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 X No ____	**Is the Sampled Area within a Wetland?** Yes ____ No X
Hydric Soil Present?	Yes ____ No X	
Wetland Hydrology Present?	Yes ____ No X	

Remarks:

Recent Rainfall

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ 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 X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? Yes ____ No X

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

Remarks:

No Wetland Hydrology Observed.

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

Sampling Point: 8

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Fagus grandifolia	20	YES	FACU
2. Quercus alba	5	NO	FACU
3. Pinus taeda	2	NO	FAC
4.			
5.			
6.			
7.			
8.			
	27	= Total Cover	
50% of total cover: 13.5	20% of total cover: 5.4		
Sapling/Shrub Stratum (Plot size: 30)			
1. Symplocos tinctoria	10	YES	FAC
2. Liquidambar styraciflua	5	NO	FAC
3. Vaccinium arboreum	5	NO	FACU
4. Quercus alba	5	NO	FACU
5. Ilex opaca	5	NO	FACU
6. Viburnum dentatum	2	NO	FACU
7. Acer rubrum	2	NO	FAC
8.			
	31	= Total Cover	
50% of total cover: 16.5	20% of total cover: 6.2		
Herb Stratum (Plot size: 30)			
1. Symplocos tinctoria	5	YES	FAC
2. Acer rubrum	2	YES	FAC
3. Ilex opaca	2	YES	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	9	= Total Cover	
50% of total cover: 4.5	20% of total cover: 1.8		
Woody Vine Stratum (Plot size: 30)			
1. Smilax glauca	5	YES	FAC
2.			
3.			
4.			
5.			
	5	= Total Cover	
50% of total cover: 2.5	20% of total cover: 1		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 83 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: 8

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

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-6	10 YR 4/3	100					Silt Loam	
6-12	10 YR 5/3	100					Silty Sand	
12-16	10 YR 6/4	100					Silty Sand	

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

[2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-15-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 9

Investigator(s): C. Hoffpauir Section, Township, Range: S2 T3S R10W

Landform (hillslope, terrace, etc.): Mound Local relief (concave, convex, none): Convex Slope (%): 1-3

Subregion (LRR or MLRA): LRR-T Lat: 465913 Long: 3410614 Datum: UTM NAD 83

Soil Map Unit Name: Caddo-Messer Complex, 0-1 Percent Slopes (CdA) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation No, Soil No, or Hydrology No 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 X No _____	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____ No X	
Wetland Hydrology Present?	Yes _____ No X	

Remarks:

Recent Rainfall

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ 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 X	Depth (inches): _____
Water Table Present?	Yes _____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

No wetland hydrology observed

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

Sampling Point: 9

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus elliottii	40	YES	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	40 = Total Cover		
50% of total cover: 20	20% of total cover: 8		
Sapling/Shrub Stratum (Plot size: 30)			
1. Ilex vomitoria	30	YES	FAC
2. Liquidambar styraciflua	10	YES	FAC
3. Vaccinium arboreum	10	YES	FACU
4. Morella cerifera	5	NO	FAC
5.			
6.			
7.			
8.			
	55 = Total Cover		
50% of total cover: 27.5	20% of total cover: 6		
Herb Stratum (Plot size: 30)			
1. Vaccinium arboreum	10	YES	FACU
2. Liquidambar styraciflua	5	YES	FAC
3. Eupatorium capillifolium	5	YES	FACU
4. Aristida purpurea	2	NO	FACW
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	22 = Total Cover		
50% of total cover: 11	20% of total cover: 4.4		
Woody Vine Stratum (Plot size: 30)			
1. Smilax glauca	5	YES	FAC
2.			
3.			
4.			
5.			
	5 = Total Cover		
50% of total cover: 2.5	20% of total cover: 1		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No X

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

SOIL

Sampling Point: 9

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10 YR 4/3	100					Silt Loam	
6-12	10 YR 5/4	100					Silt Loam	
12-16	10 YR 6/4	100					Silt Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-15-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 10

Investigator(s): C. Hoffpauir Section, Township, Range: S2 T3S R10W

Landform (hillslope, terrace, etc.): Intermound Local relief (concave, convex, none): None Slope (%): 0

Subregion (LRR or MLRA): LRR-T Lat: 465886 Long: 3410695 Datum: UTM NAD 83

Soil Map Unit Name: Caddo-Messer Complex, 0-1 Percent Slopes (CdA) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation No, Soil No, or Hydrology No 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 X No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X No _____	
Wetland Hydrology Present?	Yes X No _____	

Remarks:

Recent Rainfall

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☑ Surface Water (A1)
- ☐ High Water Table (A2)
- ☑ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☑ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ 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 X	No _____	Depth (inches): 0.5
Water Table Present?	Yes _____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches): 0-16

Wetland Hydrology Present? Yes X No _____

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

Remarks:

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

Sampling Point: 10

Tree Stratum (Plot size: 20)	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus elliottii	20	YES	FACW
2. Nyssa sylvatica	2	NO	FAC
3.			
4.			
5.			
6.			
7.			
8.			
	22 = Total Cover		

50% of total cover: 11 20% of total cover: 4.4

Sapling/Shrub Stratum (Plot size: 20)			
1. Triadica sebifera	30	YES	FAC
2. Morella cerifera	10	YES	FAC
3. Ilex vomitoria	2	NO	FAC
4.			
5.			
6.			
7.			
8.			
	42 = Total Cover		

50% of total cover: 21 20% of total cover: 8.4

Herb Stratum (Plot size: 20)			
1. Carex glaucescens	30	YES	OBL
2. Muhlenbergia expansa	10	NO	FACW
3. Panicum rigidulum	5	NO	FACW
4. Andropogon virginicus	5	NO	FAC
5. Xyris caroliniana	2	NO	FACW
6. Rhexia mariana	2	NO	FACW
7.			
8.			
9.			
10.			
11.			
12.			
	54 = Total Cover		

50% of total cover: 27 20% of total cover: 10.8

Woody Vine Stratum (Plot size: 20)			
1. Rubus argutus	5	YES	FAC
2.			
3.			
4.			
5.			
	5 = Total Cover		

50% of total cover: 2.5 20% of total cover: 1

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: 10

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10 YR 5/2	90	7.5 YR 4/6	10	C	M, PL	Silt Loam	
10-16	10 YR 6/2	80	10 YR 5/8	20	C	M, PL	Silt Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-15-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 11

Investigator(s): C. Hoffpauir Section, Township, Range: S12 T3S R10W

Landform (hillslope, terrace, etc.): Ridge Slope Local relief (concave, convex, none): Convex Slope (%): 1-3

Subregion (LRR or MLRA): LRR-T Lat: 466312 Long: 3409898 Datum: UTM NAD 83

Soil Map Unit Name: Beauregard Silt Loam, 1-3 Percent Slopes (BdB) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation No, Soil No, or Hydrology No 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 X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____ No X	
Wetland Hydrology Present?	Yes _____ No X	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ 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 X	Depth (inches): _____
Water Table Present?	Yes _____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

No wetland hydrology observed.

VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: 11

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus taeda	20	YES	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	20 = Total Cover		
50% of total cover: 10	20% of total cover: 4		
Sapling/Shrub Stratum (Plot size: 30)			
1. Pinus taeda	30	YES	FAC
2. Rhus copallinum	5	NO	UPL
3. Vaccinium arboreum	5	NO	FACU
4. Morella cerifera	2	NO	FAC
5.			
6.			
7.			
8.			
	42 = Total Cover		
50% of total cover: 21	20% of total cover: 8.4		
Herb Stratum (Plot size: 30)			
1. Schizachyrium scoparium	40	YES	FACU
2. Solidago altissima	10	NO	FAC
3. Athyrium asplenioides	5	NO	FACU
4. Dichanthelium acuminatum	5	NO	FAC
5. Muhlenbergia capillaris	5	NO	FAC
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	65 = Total Cover		
50% of total cover: 32.5	20% of total cover: 13		
Woody Vine Stratum (Plot size: 30)			
1. Rubus trivialis	5	5	FACU
2.			
3.			
4.			
5.			
	5 = Total Cover		
50% of total cover: 2.5	20% of total cover: 1		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ____ No X

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

SOIL

Sampling Point: 11

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10 YR 3/2	100					Silt Loam	
3-9	10 YR 4/3	100					Silt Loam	
9-16	7.5 YR 5/6	100					Silt Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-15-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 12

Investigator(s): C. Hoffpauir Section, Township, Range: S11 T3S R10W

Landform (hillslope, terrace, etc.): Ridge Local relief (concave, convex, none): Convex Slope (%): 3-5

Subregion (LRR or MLRA): LRR-T Lat: 465770 Long: 3409354 Datum: UTM NAD 83

Soil Map Unit Name: Malbis Fine Sandy Loam, 3-5 Percent Slopes (MbC) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation No, Soil No, or Hydrology No 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 X	**Is the Sampled Area within a Wetland?** Yes _____ No X
Hydric Soil Present?	Yes _____	No X	
Wetland Hydrology Present?	Yes _____	No X	

Remarks:

Recent rainfall

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ 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 X	Depth (inches): _____
Water Table Present?	Yes _____	No X	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

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

Remarks:

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

Sampling Point: 12

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Pinus palustris	30	YES	FAC
2. Pinus taeda	10	YES	FAC
3.			
4.			
5.			
6.			
7.			
8.			
	40 = Total Cover		
50% of total cover: 20	20% of total cover: 8		
Sapling/Shrub Stratum (Plot size: 30)			
1. Liquidambar styraciflua	10	YES	FAC
2. Ilex vomitoria	10	YES	FAC
3. Morella cerifera	10	YES	FAC
4. Prunus serotina	2	NO	FACU
5. Vaccinium arboreum	2	NO	FACU
6.			
7.			
8.			
	34 = Total Cover		
50% of total cover: 17	20% of total cover: 6.8		
Herb Stratum (Plot size: 30)			
1. Andropogon virginicus	30	YES	FAC
2. Muhlenbergia capillaris	10	YES	FAC
3. Panicum rigidulum	2	NO	FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	42 = Total Cover		
50% of total cover: 21	20% of total cover: 8.4		
Woody Vine Stratum (Plot size: 30)			
1. Rubus argutus	5	YES	FAC
2.			
3.			
4.			
5.			
	5 = Total Cover		
50% of total cover: 2.5	20% of total cover: 1		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☑ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: 12

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10 YR 4/3	100					Silt Loam	
12-16	10 YR 5/4	100					Silt Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Tract City/County: DeRidder/Beauregard Sampling Date: 12-15-15

Applicant/Owner: SJB Group LLC State: LA Sampling Point: 13

Investigator(s): C. Hoffpauir Section, Township, Range: S11 T3S R10W

Landform (hillslope, terrace, etc.): Drain swale Local relief (concave, convex, none): Concave Slope (%): 0-1

Subregion (LRR or MLRA): LRR-T Lat: 465551 Long: 3409430 Datum: UTM NAD 83

Soil Map Unit Name: Guyton-Ouachita Silt Loams, Frequently Flooded (GYA) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation No, Soil No, or Hydrology No 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 X No _____	**Is the Sampled Area within a Wetland?** Yes X No _____
Hydric Soil Present?	Yes X No _____	
Wetland Hydrology Present?	Yes X No _____	

Remarks:

Recent rainfall

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☑ Surface Water (A1)
- ☑ High Water Table (A2)
- ☑ Saturation (A3)
- ☑ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☑ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15) **(LRR U)**
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ 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 X	No _____	Depth (inches): 0-4"
Water Table Present?	Yes X	No _____	Depth (inches): @ 13" BGS
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches): 0-16"

Wetland Hydrology Present? Yes X No _____

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

Remarks:

Area is adjacent to small drain leading to creek

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

Sampling Point: 13

Tree Stratum (Plot size: 20)	Absolute % Cover	Dominant Species?	Indicator Status
1. None	N/A	N/A	N/A
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	N/A = Total Cover		
50% of total cover: N/A	20% of total cover: N/A		
Sapling/Shrub Stratum (Plot size: 20)			
1. Pinus taeda	20	YES	FAC
2. Liquidambar styraciflua	10	YES	FAC
3. Morella cerifera	10	YES	FAC
4.			
5.			
6.			
7.			
8.			
	40 = Total Cover		
50% of total cover: 20	20% of total cover: 8		
Herb Stratum (Plot size: 20)			
1. Andropogon virginicus	50	YES	FAC
2. Panicum rigidulum	10	NO	FACW
3. Andropogon capillipes	10	NO	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	70 = Total Cover		
50% of total cover: 35	20% of total cover: 14		
Woody Vine Stratum (Plot size:)			
1. Smilax laurifolia	5	YES	FACW
2.			
3.			
4.			
5.			
	5 = Total Cover		
50% of total cover: 2.5	20% of total cover: 1		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

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 =

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

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

Definitions of Four Vegetation Strata:

Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

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

SOIL

Sampling Point: 13

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-3	10 YR 4/2	100					Silt Loam	Saturated
3-10	10 YR 5/2	90	7.5 YR 5/8	10	C	M, PL	Silt Loam	Saturated
10-12	10 YR 6/2	80	7.5 YR 4/6	20	C	M, PL	Silt Loam	Saturated; Fe&Mn masses

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

[2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

- ☐ 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)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks: