

APPENDIX G – FLOOD ZONE AND WETLAND LOCATION COMPLIANCE

Documentation of compliance with location criteria of Section 507.A.5 and 507.A.6 for Flood Zones & Wetlands (Section 519.C.7)

Castilaw Environmental Services, LLC (CES) in association with the proposed PA Prospect Corporation's (PA Prospect) Class II Commercial Disposal Facility project located near Grand Bayou, Red River Parish, Louisiana, was authorized by ALTEC Environmental Services, LLC (ALTEC) to conduct a wetlands delineation of the approximately 7-acre tract of land (Subject Property) in which the proposed facility site lies in order to identify potential jurisdictional waters of the U.S., including wetlands, within any portions of the overall subject property.

CES determined that a request for preliminary jurisdictional determination associated with this same tract of land by the U.S. Army Corps of Engineers (USACE) is not needed because there are no potential waters of the United States within the boundaries of the proposed project site. This project would not involve activities subject to the requirements of Section 404 or Section 10, therefore it will not require authorization pursuant to Section 404 and/or Section 10.

The subject property is located near the intersection of LA-1 and US-84 near Grand Bayou, Red River Parish, Louisiana. The approximate 7-acre PA Prospect Commercial Disposal Facility site will be situated within the central portion of the overall subject property which is partially utilized as commercial and agricultural purposes and is otherwise vacant.

Based on CES' evaluation, construction activities associated with the proposed facility site will result in no temporary or permanent impacts to jurisdictional waters of the U.S., including wetlands, and as such is not subject to the requirements of Section 404 or Section 10. Therefore, authorization from the USACE is not required for this project. The letter Dated December 27, 2018 from the Louisiana Department of Culture, Recreation & Tourism stated that they recommend a Phase 1 Cultural Resources Survey be performed. After talking with them on several occasions it was decided that since no other permitting is required they will not require us to perform a Phase 1 Cultural Resources Survey.

A copy of CES' report is included in this section.



November 25, 2019

Ms. Cori Carraway
Permit Section Chief, Regulatory Branch
U.S. Army Corps of Engineers Vicksburg District
4155 Clay Street
Vicksburg, MS 39183-5191.
Submitted via email: Regulatory@usace.army.mil

Re: Request for "No Permit Required" Letter Associated with the PA Prospect Corporation Proposed Saltwater Disposal Facility Site near Grand Bayou, Red River Parish, Louisiana
Castilaw Environmental Services, LLC Project No. 18-CES-68

Dear Ms. Carraway,

Castilaw Environmental Services, LLC (CES) conducted a wetlands investigation and threatened & endangered species assessment in association with a proposed saltwater disposal facility near Grand Bayou, Red River Parish, Louisiana. The proposed project site is comprised of 7.0 acres of agricultural-related land that has been utilized as pastureland for cattle grazing purposes since at least 2005. Based on our findings, CES does not believe that the project will result in any temporary or permanent impacts to potentially jurisdictional waters of the U.S., including wetlands, and that no authorization from the USACE or additional wetlands investigation is necessary to complete this project. Additionally, construction activities associated with the proposed project are not expected to impact listed threatened & endangered species or previously recorded archaeological sites. Our client for this project has requested that we also submit our report to the USACE to verify our findings and to request concurrence that no permit is required for the proposed project.

I have attached a copy of our wetlands investigation report, including project figures, photographic documentation, wetland determination data forms, and threatened & endangered species documentation. Please do not hesitate to contact me at (936) 559-9991 or the email address below if you have any questions or need any additional information.

Thank You,

A handwritten signature in cursive script that reads "Anthony Castilaw".

Anthony Castilaw
Principal
acastilaw@castilawenvironmental.com

Enclosures: Request Form for Corps Jurisdictional Determination
Wetlands Investigation Report

510 E. Pilar Street
Nacogdoches, Texas 75961
Office: 936-559-9991 Fax: 936-559-9993

Appendix 1 - REQUEST FOR CORPS JURISDICTIONAL DETERMINATION (JD)

To: District Name Here

- I am requesting a JD on property located at: Located on the south side of Highway 84 near Grand Bayou, Red River Parish, LA
(Street Address)
City/Township/Parish: Grand Bayou County: Red River Parish State: LA
Acreage of Parcel/Review Area for JD: ~7.0 acres
Section: 26 Township: 13 Range: 11
Latitude (decimal degrees): 32.081336 Longitude (decimal degrees): -93.478371
(For linear projects, please include the center point of the proposed alignment.)
- Please attach a survey/plat map and vicinity map identifying location and review area for the JD.
- I currently own this property. I plan to purchase this property.
 I am an agent/consultant acting on behalf of the requestor.
 Other (please explain): _____.
- Reason for request: (check as many as applicable)
 I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all aquatic resources.
 I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all jurisdictional aquatic resources under Corps authority.
 I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps, and the JD would be used to avoid and minimize impacts to jurisdictional aquatic resources and as an initial step in a future permitting process.
 I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps; this request is accompanied by my permit application and the JD is to be used in the permitting process.
 I intend to construct/develop a project or perform activities in a navigable water of the U.S. which is included on the district Section 10 list and/or is subject to the ebb and flow of the tide.
 A Corps JD is required in order to obtain my local/state authorization.
 I intend to contest jurisdiction over a particular aquatic resource and request the Corps confirm that jurisdiction does/does not exist over the aquatic resource on the parcel.
 I believe that the site may be comprised entirely of dry land.
 Other: _____.
- Type of determination being requested:
 I am requesting an approved JD.
 I am requesting a preliminary JD.
 I am requesting a "no permit required" letter as I believe my proposed activity is not regulated.
 I am unclear as to which JD I would like to request and require additional information to inform my decision.

By signing below, you are indicating that you have the authority, or are acting as the duly authorized agent of a person or entity with such authority, to and do hereby grant Corps personnel right of entry to legally access the site if needed to perform the JD. Your signature shall be an affirmation that you possess the requisite property rights to request a JD on the subject property.

*Signature: Anthony Castilaw

Digitally signed by Anthony Castilaw
Date: 2019.10.29 10:23:56 -0500

Date: November 25, 2019

- Typed or printed name: Anthony Castilaw
Company name: Castilaw Environmental Services, LLC
Address: P.O. Box 631025
Nacogdoches, Texas 75963
Daytime phone no.: (936) 559-9991
Email address: acastilaw@castilawenvironmental.com

***Authorities:** Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.

Principal Purpose: The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.

Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website.

Disclosure: Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.



CASTILAW

ENVIRONMENTAL SERVICES, LLC

November 21, 2018

Mr. Charlie Reynolds
ALTEC Environmental Services, LLC
10100 Woolworth Road
Keithville Road, LA 71047

Re: Results of the Wetlands Investigation and Threatened & Endangered Species Assessment associated with the PA Prospect Corporation - Proposed Commercial Saltwater Disposal Facility located near Grand Bayou, Red River Parish, Louisiana
Castilaw Environmental Services, LLC - Project No. 18-CES-68

Mr. Reynolds,

Castilaw Environmental Services, LLC (CES) conducted a wetland investigation and threatened & endangered species assessment on behalf of ALTEC Environmental Consulting, LLC (ALTEC) for a proposed commercial saltwater disposal facility project on November 14, 2018.

The project site consists of an approximate 7.0-acre site which is currently being utilized as agricultural-related farmland associated with cattle grazing. The proposed project site is located near Grand Bayou, Red River Parish, Louisiana. North American Datum of 1983 (NAD 83) coordinates for the center of the project site are as follows: Latitude 32.081185° North, Longitude -93.477939° West.

INVESTIGATION METHODS

Agency Resource Information

Prior to the field investigation, CES personnel gathered and reviewed information from various sources to identify and map potential waters of the U.S., including wetlands, within and along the boundaries of the proposed project site, as well as in the general vicinity of the proposed project. Additionally, information was gathered and reviewed regarding known and/or potential populations of threatened & endangered species. Specifically, the information reviewed prior to the field investigation was obtained from, but not limited to, the following sources:

- 2006 – 2015 National Agriculture Imagery Program (NAIP) Aerial Imagery;
- United States Geological Survey (USGS) 7.5-minute Topographic Maps;

- United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey;
- National Wetland Inventory Data (NWI);
- United States Fish and Wildlife Service's (USFWS) threatened & endangered species list for Red River Parish, Louisiana; and
- Louisiana Department of Wildlife and Fisheries (LDWF) list of rare, threatened, and endangered species for Red River Parish, Louisiana.

INVESTIGATION RESULTS

Waters of the United States

Wetland Delineation

The wetland investigation performed in association with this project was conducted in accordance with the "Routine On-Site Determination Method" as described in the *U.S. Army Corps of Engineers Wetland Manual* (1987) and the *U.S. Army Corps of Engineers - Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region* (Version 2.0) (November 2010). Plant identifications were made using several sources of information, including *Aquatic and Wetland Plants of the Southeastern United States* (Godfrey and Wooten, 1979). Munsell Soil Color Charts (Revised 2009) were used to identify the hue, value, and chroma of soil profiles.

Using the investigation methods mentioned above, as well as our professional judgment, CES personnel identified no potential waters of the United States within the boundaries of the proposed project site.

Upland Habitat

The habitat comprising the proposed project site is currently being utilized as agricultural-related farmland associated with cattle grazing. Due to continual agricultural-related farming practices, the land is relatively flat.

Upland Data Point 1

The vegetative community of the habitat within the proposed project site is predominately comprised of Bahia grass (*Paspalum notatum*), with a few other species such as Smooth Crabgrass (*Digitaria ischaemum*), Bristle Grass (*Setaria faberi*) and Southern Dewberry (*Rubus trivialis*) (Photograph 1). There were no wetland hydrology indicators observed within this habitat.

The soil profile, from 0 to 10 inches, had matrix colors of 10YR 3/2 (100%) and from 10 to 12 inches had matrix colors 10YR 3/3 (100%), no redox feature and a clay texture (Data Sheet: UPL DP 1). Based on review of the National Resources Conservation Service (NRCS) Web Soil Survey, the mapped soil type at the sampling location was identified as Caspiana silty clay loam, 0 to 1 percent slopes (Cn), which is not listed as

hydric on the state and national hydric soils list and no hydric soil characteristics were observed within this sample site. There was no NWI classification at the sampling point.

Threatened & Endangered Species

Potential impacts to threatened & endangered species were assessed in conjunction with the wetland investigation. CES reviewed the U.S. Fish and Wildlife Services (USFWS) Initial Planning and Coordination (IPaC) species list. The IPaC report listed one endangered species (Interior Least Tern) and one threatened species (Northern Long-eared Bat) occurring in Red River Parish. CES ran a USFWS Endangered Species Project Review and Guidance Report for possible impacts to the two listed species. After reviewing the project it was determined that the proposed project would not have an impact on either the Interior Least Tern or the Northern Long-eared Bat.

According to a list provided by the Louisiana Department of Wildlife and Fisheries (LDWF), fifteen (15) species are state, but not federally, listed as threatened or endangered species in Red River Parish. These species are protected from the taking of individuals; however for the purpose of this investigation, a detailed habitat analysis was not deemed necessary. These species are identified as the Western Sand Darter (*Ammocrypta clara*), Blue Sucker (*Cycleptus elongatus*), Louisiana Pigtoe (*Pleurobema riddellii*), Interior Least Tern (*Sternula antillarum athalassos*), Louisiana Blue Star (*Amsonia ludoviciana*), Southern Lady's-slipper (*Cypripedium kentuckiense*), Wolf Spikerush (*Eleocharis wolfii*), Rosemary Rockrose (*Helianthemum rosmarinifolium*), Minuartia (*Minuartia muriculata*), Green-fringe Orchis (*Platanthera lacera*), Brownish Beakrush (*Rhynchospora capitellata*), Texas Sunnysbell (*Schoenolirion wrightii*), Fire Pink (*Silene virginia*), Prairie Cordgrass (*Spartina pectinate*), and Small-flowered Flame-flower (*Talinum parviflorum*). The preferred habitat for these listed species was not observed on the project site or within the general vicinity of the property.

Other Species of Concern

Even though they are delisted, bald eagles are still protected by the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. These Acts require some measures to continue to prevent bald eagle "take" resulting from human activities.

The bald eagle's habitat is most commonly found in areas close to bodies of water that reflect the general availability of primary food sources including fish, waterfowl, and seabirds. This species usually nests in tall trees or on cliffs near water and typically selects the larger, more accessible trees. Communal roost sites used by two or more eagles are common, and some may be used by 100 or more eagles during periods of high use. The bald eagle avoids areas near human activity and development.

There were no bald eagles or nests observed during the field activities associated with this project. Based on this information, impacts to this species are not expected as a result of the construction activities associated with the proposed project.

SUMMARY

Based upon our field investigation, the proposed project will not impact any potential waters of the United States. Additionally, there were no potential waters of the United States identified within the proposed project site which currently consist of active agricultural-related farmland associated with cattle grazing. Any alteration within the current scope of this project or relocation of the proposed project that would impact potential jurisdictional waters of the United States could potentially require pre-construction notification to the USACE – Fort Worth District.

Additionally, the proposed project is not expected to impact listed threatened and endangered species.

Any changes in project design, scope or location should be reviewed for possible impacts to waters of the United States or threatened and endangered species. Failure to review any project changes or site relocation could result in violation of Section 404 of the Clean Water Act and/or the Endangered Species Act.

CLOSING

CES contracted with Horizon Environmental Services, Inc. (Horizon) to conduct a cultural resources archival review of the proposed project site. The archival review did not identify any listed cultural resources on the proposed project site; however, Horizon indicated that pre-historic sites may be located in the general area of the project site. CES has submitted a letter to Louisiana State Historic Preservations Office (SHPO) requesting concurrence that no cultural resources will be impacted by the proposed project. CES anticipates receiving this concurrence from SHPO within the next 30 days, which will be submitted to ALTEC for their files.

Please do not hesitate to contact Mr. Anthony Castilaw or myself at (936) 559-9991 should you have any questions or comments regarding this report. Thank you for the opportunity to provide environmental services to you and to your clients.

Thank You,



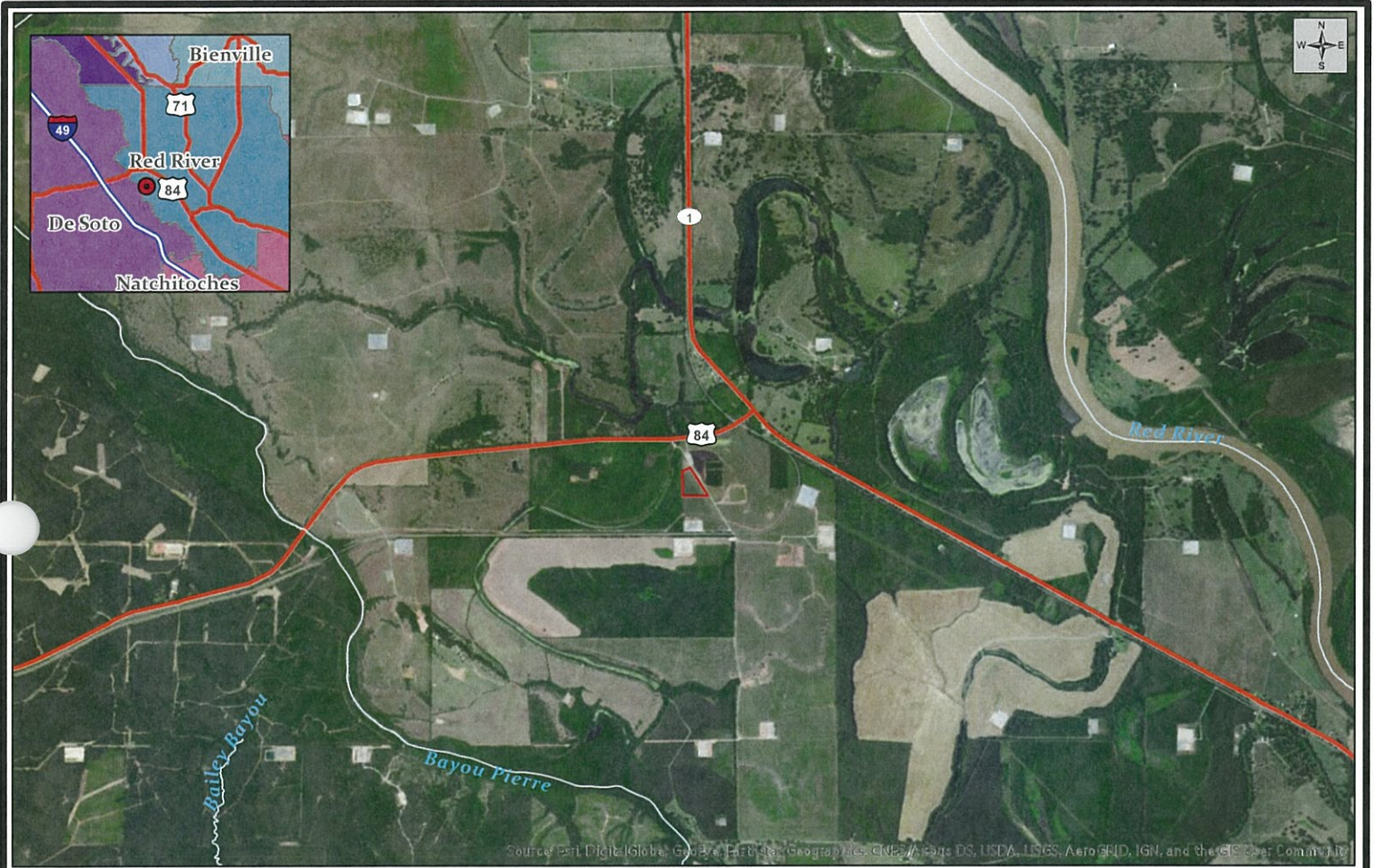
Kyle Clark
Natural Resources Director

Attachments:

- Appendix A: Figures
- Appendix B: Photographs
- Appendix C: Data Sheets
- Appendix D: Endangered Species Documentation

Appendix A

Figures



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Figure 1 of 5
Location Map

Wetlands Evaluation

Date: November 21, 2018



CES Project No. 18-CES-68
Created By: Joseph Gerland
Coordinates: 32.081336, -93.478371

ALTEC - PA Prospect Corporation
Red River Parish, Louisiana

Imagery Source: ESRI
Vector Source: CES, ESRI, & USGS
Datum: NAD 1983 UTM Zone 15N



Project Site



Figure 2 of 5
Waters of the U.S.

Wetlands Evaluation

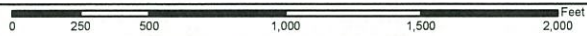
Date: November 21, 2018



CES Project No. 18-CES-68
Created By: Joseph Gerland
Coordinates: 32.081336, -93.478371

ALTEC - PA Prospect Corporation
Red River Parish, Louisiana

Imagery Source: ESRI
Vector Source: CES
Datum: NAD 1983 UTM Zone 15N



-  Data Point
-  Project Site



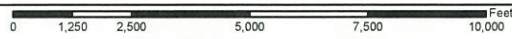
Figure 3 of 5
Topographic Map

Wetlands Evaluation

Date: November 21, 2018



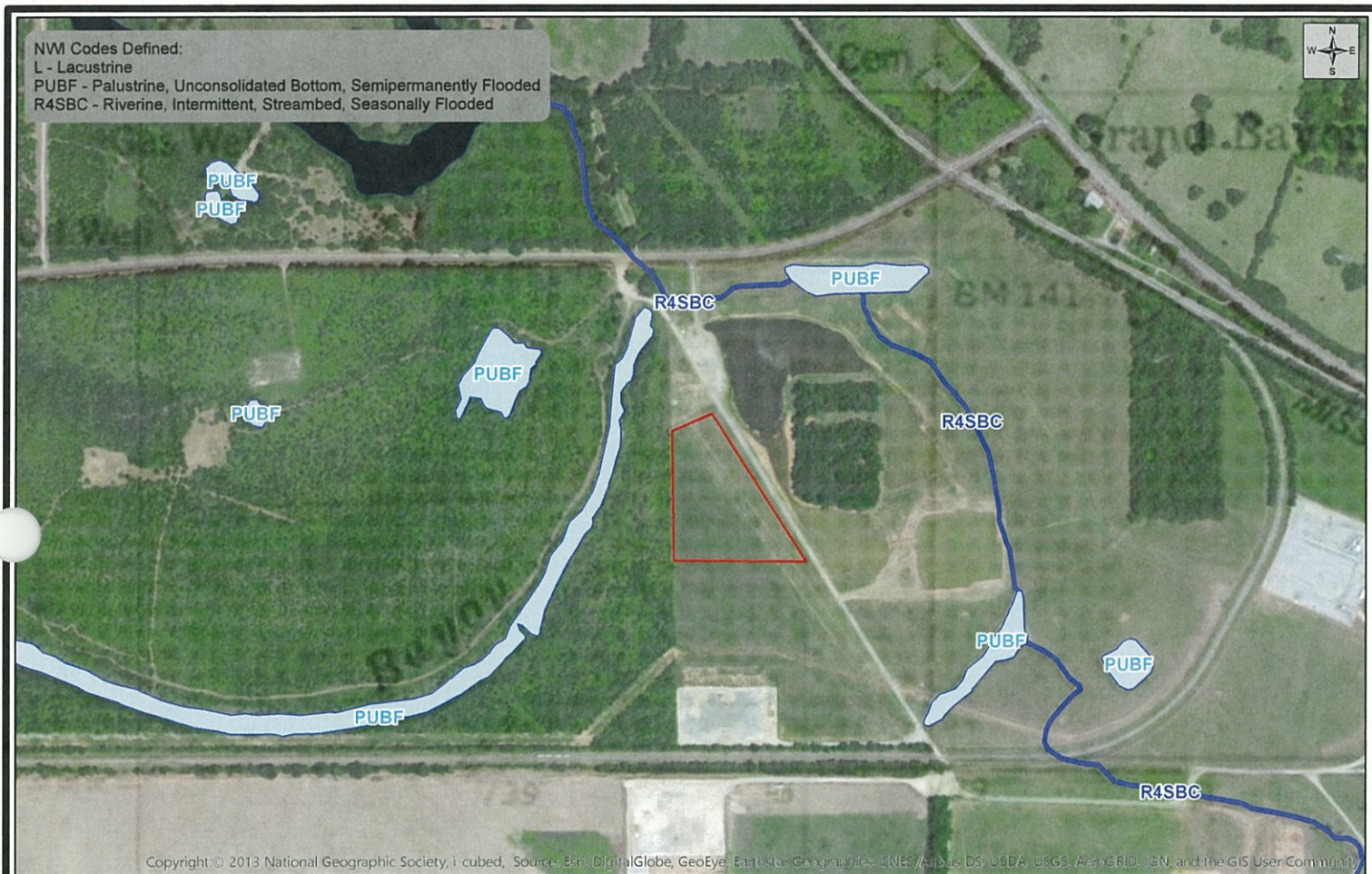
CES Project No. 18-CES-68
 Created By: Joseph Gerland
 Coordinates: 32.085679, -93.479863



ALTEC - PA Prospect Corporation
 Red River Parish, Louisiana

Quad: Harmon
 Imagery Source: NGS
 Vector Source: CES
 Datum: NAD 1983 UTM Zone 15N

Project Site




<p>Figure 4 of 5 National Wetlands Inventory</p>	<p>Wetlands Evaluation</p>	<p>Date: November 21, 2018</p>
 <p>CASTILAW ENVIRONMENTAL SERVICES, LLC NACONCHACHEE, TX (817) 579-9991</p>	<p style="text-align: center;"> ALTEC - PA Prospect Corporation Red River Parish, Louisiana </p> <p> <small> CES Project No. 18-CES-68 Created By: Joseph Gerland Coordinates: 32.082384, -93.478858 </small> </p> <p style="text-align: right;"> <small> Imagery Source: ESRI & NGS Vector Source: CES & USFWS Datum: NAD 1983 UTM Zone 15N </small> </p>	<ul style="list-style-type: none"> NWI - Freshwater Pond NWI - Riverine NWI - Lacustrine Project Site



Figure 5 of 5
Soil Data Map

Wetlands Evaluation

Date: November 21, 2018

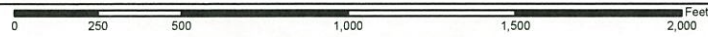


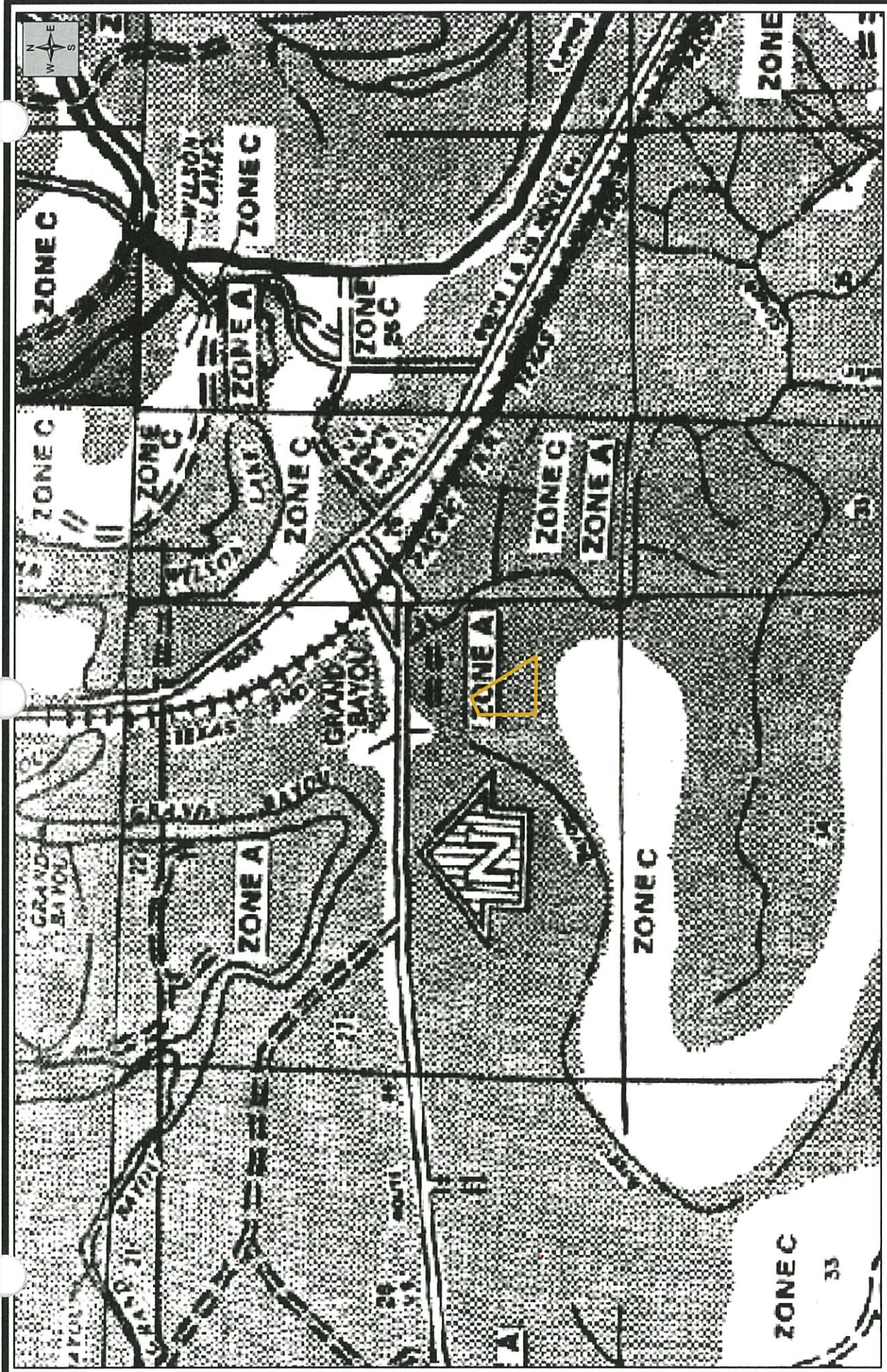
CES Project No. 18-CES-68
Created By: Joseph Gerland
Coordinates: 32.081958, -93.478268

ALTEC - PA Prospect Corporation
Red River Parish, Louisiana

Imagery Source: ESRI
Vector Source: CES & NRCS
Datum: NAD 1983 UTM Zone 15N

- Non-Hydric
- Project Site





Date: October 06, 2020

Wetlands Evaluation

Figure 6 of 6
FEMA Flood Zones

Feet
0 750 1,500 3,000 4,500 6,000

ALTEC - PA Prospect Corporation
Red River Parish, Louisiana

CES Project No. 18-CES-68
Created By: Joseph Gerland
Coordinates: 32.083513, -93.478258



Project Site

Imagery Source: FEMA
Vector Source: CES
Datum: NAD 1983 UTM Zone 15N

Appendix B

Photographs



Photograph 1 – A representative photo of the maintained pasture. View to the north from the data point.



Photograph 2 – A representative photo of the maintained pasture. View to the east from the data point.



Photograph 3 – A representative photo of the maintained pasture. View to the south from the data point.



Photograph 4 – A representative photo of the maintained pasture. View to the west from the data point.

Appendix C

Data Sheets

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: ALTEC - PA Prospect (Grand Bayou) City/County: Grand Bayou, Red River Pa Sampling Date: 11/14/2018
 Applicant/Owner: PA Prospect Corporation State: LA Sampling Point: 1
 Investigator(s): K. Clark, M. Box Section, Township, Range: T13N, R11W
 Landform (hill/slope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%): 0
 Subregion (LRR or MLRA): LRR P Lat: 32.081092 Long: -93.478464 Datum: NAD 83
 Soil Map Unit Name: Caspiian silty clay loam (0 to 1% slope) NWI classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks: Habitat consists of upland maintained pasture. None of three wetland criteria met. Site is not a wetland.	

HYDROLOGY

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

Field Observations:

Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	

(includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
 Remarks:
 No wetland hydrology indicators were observed. Criteria not met.

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

Sampling Point: 1

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. N/A				Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2.				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
4.				Prevalence Index worksheet:
5.				Total % Cover of: _____ Multiply by: _____
6.				OBL species <u>0</u> x 1 = <u>0</u>
				FACW species <u>0</u> x 2 = <u>0</u>
				FAC species <u>0</u> x 3 = <u>0</u>
				FACU species <u>1</u> x 4 = <u>4</u>
				UPL species <u>1</u> x 5 = <u>5</u>
				Column Totals: <u>2</u> (A) <u>9</u> (B)
				Prevalence Index = B/A = <u>4.5</u>
				Hydrophytic Vegetation Indicators:
				<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
				<input type="checkbox"/> 2 - Dominance Test is >50%
				<input type="checkbox"/> 3 - Prevalence Index is >3.0
				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vine – All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Remarks: (If observed, list morphological adaptations below).
 Hydrophytic vegetation was not dominant. Criteria not met.

SOIL

Sampling Point: 1

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

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-10	10 YR 3/2	100			C		C - Clay	
10-12	10 YR 3/3	100			C			

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

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

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U)	<input type="checkbox"/> 1 cm Muck (A9) (LRR O)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U)	<input type="checkbox"/> 2 cm Muck (A10) (LRR S)
<input type="checkbox"/> Black Mistic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O)	<input type="checkbox"/> Reduced Vertic (F18) (outside MLRA 150A B)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (LRR P, S, T)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 153B)
<input type="checkbox"/> Organic Bodies (A8) (LRR P, T, U)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Muck Presence (A8) (LRR U)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR P, T)	<input type="checkbox"/> Marl (F10) (LRR U)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Ochric (F11) (MLRA 151)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A)	<input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U)	
<input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR O, S)	<input type="checkbox"/> Delta Ochric (F17) (MLRA 151)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A)	
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 149A, 163C, 163D)	
<input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)		

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____
 Hydric Soil Present? Yes No

Remarks:
 No hydric soil indicators were observed. Criteria not met.

Appendix D

Endangered Species Documentation



Endangered Species Act (ESA) Project Review and Guidance for Other Federal Trust Resources Report

Instructions

Please keep a copy of this report for your records. It is not necessary to send this report to the Louisiana Ecological Services Office. Contact our office at (337) 291-3100 for further assistance.

Project Description: Commercial Salt Water Disposal Facility

Requesting Agency: Castilaw Environmental Services, LLC

Project Coordinates: Latitude: 32.081092 Longitude: -93.478464

Point of Contact: Kyle Clark

Address: 510 E. Pilar Street

City: Nacogdoches **State:** Texas **Zip Code:** 75961

Phone Number 1: 936.559.9991 **Phone Number 2:** 281.536.0575

Email Address: kclark@castilawenvironmental.com

Does the proposed action only involve telecommunication structure(s)?

No

Would the proposed action occur entirely within an existing footprint or rights-of-way (ROW)?

No

Northern Long-eared Bat

Would the proposed action involve any bridge repair, retrofit, maintenance, and/or rehabilitation work?

No

Would the proposed action involve cutting down, harvesting, destroying or trimming trees, saplings, snags, or any other form of woody vegetation greater than or equal to 4 inches diameter breast height?

No

Would the proposed action involve prescribed burning?

No

Conclusion:

We have concluded that the proposed action would have no impacts on the Northern Long-eared Bat.

Project Representative

Date

Interior Least Tern

Would the proposed action be located within or adjacent to the Red River or Mississippi River north of Baton Rouge?

No

Conclusion:

We have concluded that the proposed action would have no impacts on the Interior Least Tern.

Project Representative

Date

Technical assistance for the proposed action is concluded. To ensure continued compliance with the ESA, reinitiate coordination when:

- new information reveals that the action may impact listed species to an extent not considered in this coordination;
- the action is modified in a way that causes effects to listed species not considered in this coordination; or
- a new species is listed that the action may impact.

Migratory Bird Conservation Recommendations

Bald Eagle

The proposed project area may provide nesting habitat for the bald eagle (*Haliaeetus leucocephalus*), which was officially removed from the List of Endangered and Threatened Species as of August 8, 2007. However, the bald eagle remains protected under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) and the Migratory Bird Treaty Act (MBTA) (40 Stat. 755, as amended; 16 U.S.C. 703 et seq.) The Louisiana Department of Wildlife and Fisheries (LDWF) has not collected comprehensive bald eagle survey data since 2008, and new active, inactive, or alternate nests may have been constructed within the proposed project area since that time.

The Service developed the National Bald Eagle Management (NBEM) Guidelines to provide landowners, land managers, and others with information and recommendations to minimize potential project impacts to bald eagles, particularly where such impacts may constitute "disturbance," which is prohibited by the BGEPA. A copy of the NBEM Guidelines is available at:

<http://www.fws.gov/migratorybirds/pdf/management/nationalbaldeaglenagementguidelines.pdf>

In southern Louisiana parishes, eagles typically nest in mature trees (e.g., baldcypress, sycamore, willow, etc.) near fresh to intermediate marshes or open water. Bald eagles may also nest in mature pine trees near large lakes in central and northern Louisiana. If a bald eagle nest occurs or is discovered within 660 feet of the proposed project area, then an evaluation must be performed to determine whether the project is likely to disturb nesting bald eagles. That evaluation may be conducted on-line at:

<https://www.fws.gov/southeast/our-services/eagle-technical-assistance>. Following completion of the evaluation, that website will provide a determination of whether additional consultation is necessary.

Colonial Waterbirds

In accordance with the Migratory Bird Treaty Act of 1918 (as amended), please be advised should the project area be located in or near wetland habitats which may be inhabited by colonial nesting waterbirds and/or seabirds, additional restrictions may be necessary.

Colonies may be present that are not currently listed in the database maintained by the Louisiana Department of Wildlife and Fisheries. That database is updated primarily by (1) monitoring previously known colony sites and (2) augmenting point-to-point surveys with flyovers of adjacent suitable habitat. Although several comprehensive coast-wide surveys have been recently conducted to determine the location of newly-established nesting colonies, we recommend that a qualified biologist inspect the proposed work site for the presence of undocumented nesting colonies during the nesting season because some waterbird colonies may change locations year-to-year. To minimize disturbance to colonial nesting birds please refer to our colonial nesting waterbird guidance on the LESO Webpage https://www.fws.gov/lafayette/Migratory_Birds/MigBird.html.

Additional Migratory Bird Conservation Recommendations

During the project impact analysis process developers should identify project-related impacts to migratory birds and the conservation measures that will be used to mitigate them. For additional Migratory Bird Conservation recommendations, guidance and tools to help reduce impacts to birds and their habitats please visit the LESO webpage https://www.fws.gov/lafayette/Migratory_Birds/MigBird.html and the Service's Migratory Bird Program Webpage (<https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds/collisions/communication-towers.php>).



BILLY NUNGESSER
LIEUTENANT GOVERNOR

State of Louisiana
OFFICE OF THE LIEUTENANT GOVERNOR
DEPARTMENT OF CULTURE, RECREATION & TOURISM
OFFICE OF CULTURAL DEVELOPMENT
DIVISION OF ARCHAEOLOGY

RICHARD H. HARTLEY
DEPUTY SECRETARY

KRISTIN P. SANDERS
ASSISTANT SECRETARY

December 27, 2018

Mr. Kyle Clark
Natural Resources Director
Castilaw Environmental Services, LLC
510 E. Pilar Street
Nacogdoches, TX 75961

Re: Request for Preliminary Cultural Resources Consultation Associated with the PA Prospect Corporation Proposed Saltwater Disposal Facility near Grand Bayou, Red River Parish, Louisiana
Castilaw Environmental Services, LLC – Project No. 18-CES-68

Dear Mr. Clark

This in response to your due diligence request, received November 20, 2018, concerning the above-referenced project. This letter is for preliminary, informational purposes only and does not constitute consultation or agency coordination with our Office as defined in 36 CFR 800: "Protection of Historic Properties" or by any state regulatory process. The recommendation stated below could change if a responsible federal and/or state agency initiates consultation with our Office. Consultation with the State Historic Preservation Office is not a substitution for consultation with Tribal Historic Preservation Offices, other Native American tribes, local governments, or the public.

Our office would recommend a Phase I Cultural Resources survey. Disturbance by agricultural and silvicultural activities is not, in and of itself, a sufficient criterion for recommending a site as not eligible (see Little et al. 2007:27). The NPS guidelines also note that integrity should not be employed as an initial screening of a site's significance. If you have any questions, please do not hesitate to contact Rachel Watson in the Division of Archaeology at (225) 342-8165 or rwatson@crt.la.gov.

Sincerely,

A handwritten signature in cursive script that reads "Kristin P. Sanders".

Kristin Sanders
State Historic Preservation Officer

Charlie Reynolds

From: Anthony Castilaw <acastilaw@castilawenvironmental.com>
Sent: Tuesday, January 07, 2020 11:07 AM
To: stephen.olivier@la.gov
Cc: Charlie Reynolds
Subject: Fwd: PA Prospect Corporation Project
Attachments: USFWS Concurrence_Letter - PA Prospect Corporation Project - Red River Parish, LA.pdf; USACE NPR Letter - PA Prospect Corporation Project - Red River Parish, LA.pdf; LA SHPO Response - PA Prospect Corporation Project - Red River Parish, LA.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email

Stephen,

Attached is an e-mail and documentation that I submitted to LA SHPO regarding a proposed saltwater disposal facility that we are working on with ALTEC Environmental. Long story short, Ms. Rachel Watson of LA SHPO told me in a telephone conversation this morning that you could call her to discuss this project further. They do not want to put in an e-mail to me that a Phase I Cultural Resources Survey is recommended for this project, but not required. However, they acknowledge that since no other permitting is required, they cannot require us to perform a Phase I Cultural Resources Survey.

I'll call you to discuss further.

Thanks,
Anthony Castilaw
Castilaw Environmental Services, LLC
www.castilawenvironmental.com [castilawenvironmental.com]
Office: 936-559-9991
Cell: 936-645-3316

----- Forwarded message -----

From: **Anthony Castilaw** <acastilaw@castilawenvironmental.com>
Date: Mon, Dec 16, 2019 at 9:18 AM
Subject: PA Prospect Corporation Project
To: Rachel Watson <rwatson@crt.la.gov>
Cc: Anthony Castilaw <acastilaw@castilawenvironmental.com>

Good morning Rachel,

I spoke to you recently regarding a proposed project identified as the PA Prospect Corporation project located in Red River Parish, LA. We originally submitted information to the LA SHPO office back in November 2018 and we received a letter from LA SHPO, dated December 27, 2018, that stated "our office would recommend a Phase I Cultural Resources survey".



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, VICKSBURG DISTRICT
4155 CLAY STREET
VICKSBURG, MISSISSIPPI 39183-3435

December 11, 2019

Operations Division

SUBJECT: Jurisdictional Determination – PA Prospect Corporation, Proposed Commercial Saltwater Disposal Facility, Red River Parish, Louisiana; MVK-2019-940

Mr. Anthony Castilaw
Castilaw Environmental Services, LLC
510 East Pilar Street
Nacogdoches, Texas 75961

Dear Mr. Castilaw:

I refer to your recent inquiry regarding Department of the Army permit requirements for the proposed commercial saltwater disposal facility in Red River Parish, Louisiana (enclosure 1).

Based upon the information provided, we have determined that a Department of the Army Section 404 permit will not be required for any of the proposed work, since there are no jurisdictional wetlands or other waters of the United States located within the proposed project boundary. For your information, I have enclosed a copy of the basis of our determination (enclosure 2) and appeals form (enclosure 3).

This approved jurisdictional determination is applicable for a period not to exceed five years from the date of this letter unless superseded by law or regulation. If the proposed work is not completed by this time, or if project plans change, you should contact this office for a reevaluation of permit requirements and refer to Identification No. MVK-2019-940 when submitting the information.

This determination of Department of the Army regulatory requirements does not convey any property rights, either in real estate or material or any exclusive privileges, and does not authorize any injury to property or invasion of rights or local laws or regulations, or obviate the requirement to obtain state or local assent required by law for the activity discussed herein.

The decision regarding this action is based on information found in the administrative record, which documents the District's decision-making process, the basis for the decision and the final decision.

If we may be of any further assistance in this matter, please contact Ms. Eli Polzer of this office, telephone (601) 631-5721 or e-mail address: Eli.L.Polzer@usace.army.mil.

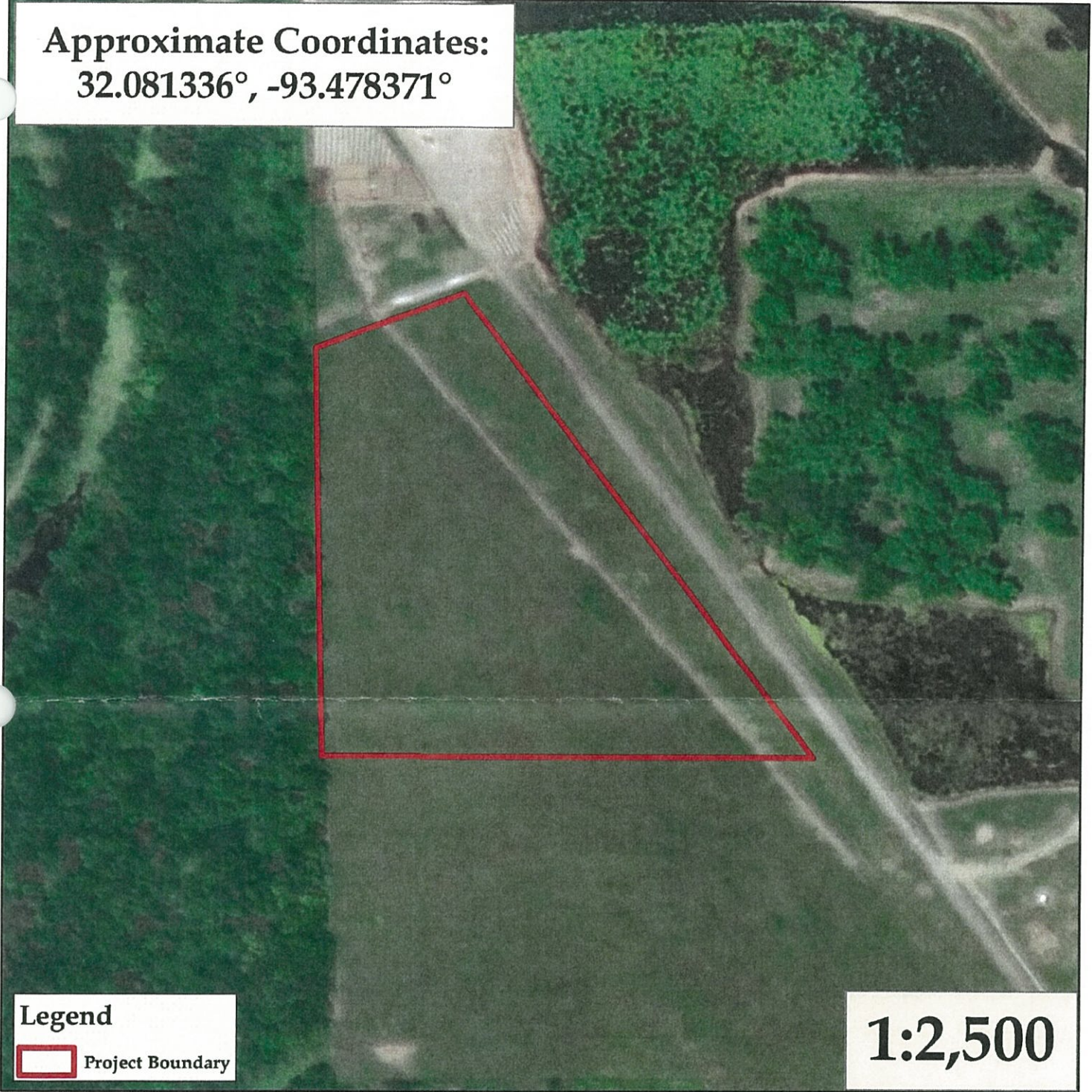
Sincerely,



Charles R. Allred, Jr.
Chief, Enforcement Section
Regulatory Branch

Enclosures

Approximate Coordinates:
32.081336°, -93.478371°



Legend
 Project Boundary

1:2,500



MVK-2019-940

Project:
PA Prospect Corporation
Proposed Saltwater Disposal Facility Site

Location:
Section 27, T13N-R11W
Harmon Quadrangle
Red River Parish, LA

Aerial Imagery:
ESRI World Imagery

Approved
Jurisdictional Determination



Regulatory Branch
Enforcement Section

0 60 120 240
Feet

Prepared by: Eli L. Polzer
11 December 2019

Enclosure 1

DRY LAND APPROVED JURISDICTIONAL DETERMINATION FORM¹
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): December 11, 2019

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Vicksburg District, MVK-2019-940

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Louisiana County/parish/borough: Red River Parish City: Grand Bayou
Center coordinates of site (lat/long in degree decimal format): Lat.: 32.081336 °, Long.: -93.478371°
Universal Transverse Mercator: UTM 15N
Name of nearest waterbody: Bayou Pierre
Watershed Code (HUC): HUC-8: 11140203; HUC-12: Grand Bayou-Bayou Pierre

Check if map/diagram of review area is available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: December 11, 2019

Field Determination. Date(s): *Click here to enter a date.*

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There are no "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

SECTION III: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Location and WOTUS Maps

Data sheets prepared/submitted by or on behalf of the applicant/consultant.

Office concurs with data sheets/delineation report.

Office does not concur with data sheets/delineation report.

Data sheets prepared by the Corps: *Click here to enter text.*

U.S. Geological Survey Hydrologic Atlas: *Click here to enter text.*

USGS NHD data.

USGS 8 and 12 digit HUC maps.

U.S. Geological Survey map(s). Cite scale & quad name: Harmon Quadrangle (1:24,000)

USDA Natural Resources Conservation Service Soil Survey. Citation: Red River Parish, LA

National wetlands inventory map(s). Cite name: USFWS NWI Mapper [11-December-2019]

State/Local wetland inventory map(s): *Click here to enter text.*

FEMA/FIRM maps: *Click here to enter text.*

100-year Floodplain Elevation is: *Click here to enter text.* (National Geodetic Vertical Datum of 1929)

Photographs: Aerial (Name & Date): ESRI World Imagery [11-December-2019]; Google Earth Pro [11-December-2019]

or Other (Name & Date): LiDAR DEM Imagery [LSU Louisiana GIS Atlas, 11-December-2019]

Previous determination(s). File no. and date of response letter: *Click here to enter text.*

Applicable/supporting case law: *Click here to enter text.*

Applicable/supporting scientific literature: *Click here to enter text.*

Other information (please specify): *Click here to enter text.*

B. REQUIRED ADDITIONAL COMMENTS TO SUPPORT JD. EXPLAIN RATIONALE FOR DETERMINATION THAT THE REVIEW AREA ONLY INCLUDES DRY LAND: Desktop information indicates that there are no hydric soils, hydrophytic vegetation, or wetland hydrology on the property. No permit required.

¹ This form is for use only in recording approved JDs involving dry land. It extracts the relevant elements of the longer approved JD form in use since 2007 for aquatic areas and adds no new fields.



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Louisiana Ecological Services Field Office
200 Dulles Drive
Lafayette, LA 70506
Phone: (337) 291-3100 Fax: (337) 291-3139

IPaC Record Locator: 211-19240511

November 26, 2019

Subject: Consistency letter for the project named 'PA Prospect Corporation' for specified threatened and endangered species that may occur in your proposed project location pursuant to the Louisiana Endangered Species Act project review and guidance for other federal trust resources key.

Dear Joseph Gerland:

The U.S. Fish and Wildlife Service (Service) received on November 26, 2019 your effects determination for the 'PA Prospect Corporation' (the Action) using the Louisiana Endangered Species Act project review and guidance for other federal trust resources key within the Information for Planning and Consultation (IPaC) system. This system was developed in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based on the answers provided, the proposed Action is consistent with a determination of "no effect" or "may affect, but not likely to adversely affect (NLAA)" for the following species as outlined in the Service's Louisiana Endangered Species Act project review and guidance for other federal trust resources key.

Endangered Interior Least tern (<i>Sterna antillarum</i>)	NLAA
Threatened Louisiana pine snake (<i>Pituophis ruthveni</i>)	NLAA

The "may affect - not likely to adversely affect" determination(s) becomes effective when the lead Federal action agency or designated non-federal representative uses it to ask the Service to rely on the Louisiana Endangered Species Act project review and guidance for other federal trust resources key to satisfy the agency's consultation requirements for this project.

Please provide this consistency letter to the lead Federal action agency or its designated non-federal representative with a request for its review, and as the agency deems appropriate, to submit for concurrence verification through the IPaC system. The lead Federal action agency or designated non-federal representative should log into IPaC using their agency email account and click "Search by record locator". They will need to enter the record locator **211-19240511**

If the action agency is unable to generate a concurrence verification letter through IPaC, please sign below verifying your species determination(s) listed above and submit your project to the Louisiana Field Office for concurrence.

Anthony Castilone

Project Representative

11/26/19

Date

Based on the information provided in this report, as well as any pertinent correspondence and documentation saved to the project file at our office (if applicable), the Service agrees with your determination(s) for the species listed above for the proposed Federal Action:

Joseph A. R.

Louisiana Ecological Services Office
U.S. Fish and Wildlife Service

13 Dec 19

Date

Consultation on the proposed action is concluded when you receive signature from this office.

The Service recommends that your agency contact the Service for additional consultation if: 1) the scope or location of the proposed project is changed significantly, 2) new information reveals that the action may affect listed species or designated critical habitat; 3) the action is modified in a manner that causes effects to listed species or designated critical habitat; or 4) a new species is listed or critical habitat designated. Additional consultation as a result of any of the above conditions or for changes not covered in this consultation should occur before changes are made and or finalized.

This IPaC-assisted determination allows you to rely on this process for compliance with ESA Section 7(a)(2) for only the species listed above. It does not apply to the following ESA-protected species that also may occur in the Action area:

- Northern Long-eared Bat, *Myotis septentrionalis* (Threatened)

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

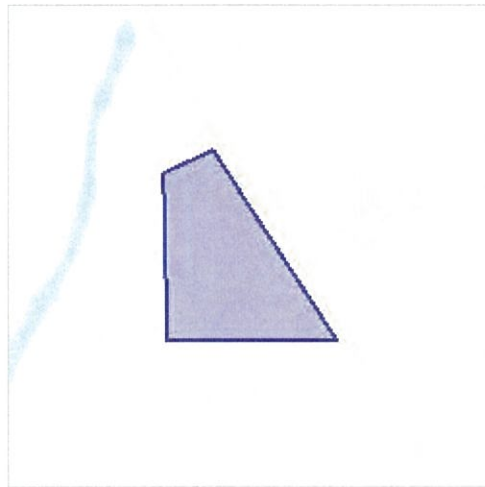
PA Prospect Corporation

2. Description

The following description was provided for the project 'PA Prospect Corporation':

Located on the south side of Highway 84 near Grand Bayou, Louisiana. Proposed project site is approximately 7 acres in size. The proposed project involves the development of a salt water disposal facility. The proposed project will be developed in 2020.

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/32.08184011150004N93.47848587208989W>



Qualification Interview

1. Is this a Federal project?

No

2. Are you with the U.S. Army Corps of Engineers Regulatory Division?

No

3. Are you with the U.S. Army Corps of Engineers Planning Division?

No

4. [Hidden Semantic] Does the project intersect the interior least tern AOI?

Automatically answered

Yes

5. Will the project result in changes to river hydrology (i.e. via construction of lock & dams, major waterbody diversion/major water withdrawals, etc.)?

No

6. Will the project directly impact suitable nesting habitat (sparsely or non-vegetated portions of sand or gravel bars)?

No

7. Will the project be conducted during the interior least tern breeding season (May 15 to August 31)?

No

8. [Hidden Semantic] Does the project intersect the Louisiana pinesnake AOI?

Automatically answered

Yes

9. Does the project occur on land that is forested or on land that is either undeveloped or non-farmed and is located within 1,920ft of adjacent forested lands?

Yes

10. [Semantic] Is the project located within a Louisiana pinesnake Estimated Occupied Habitat Area (EOHA)?

Automatically answered

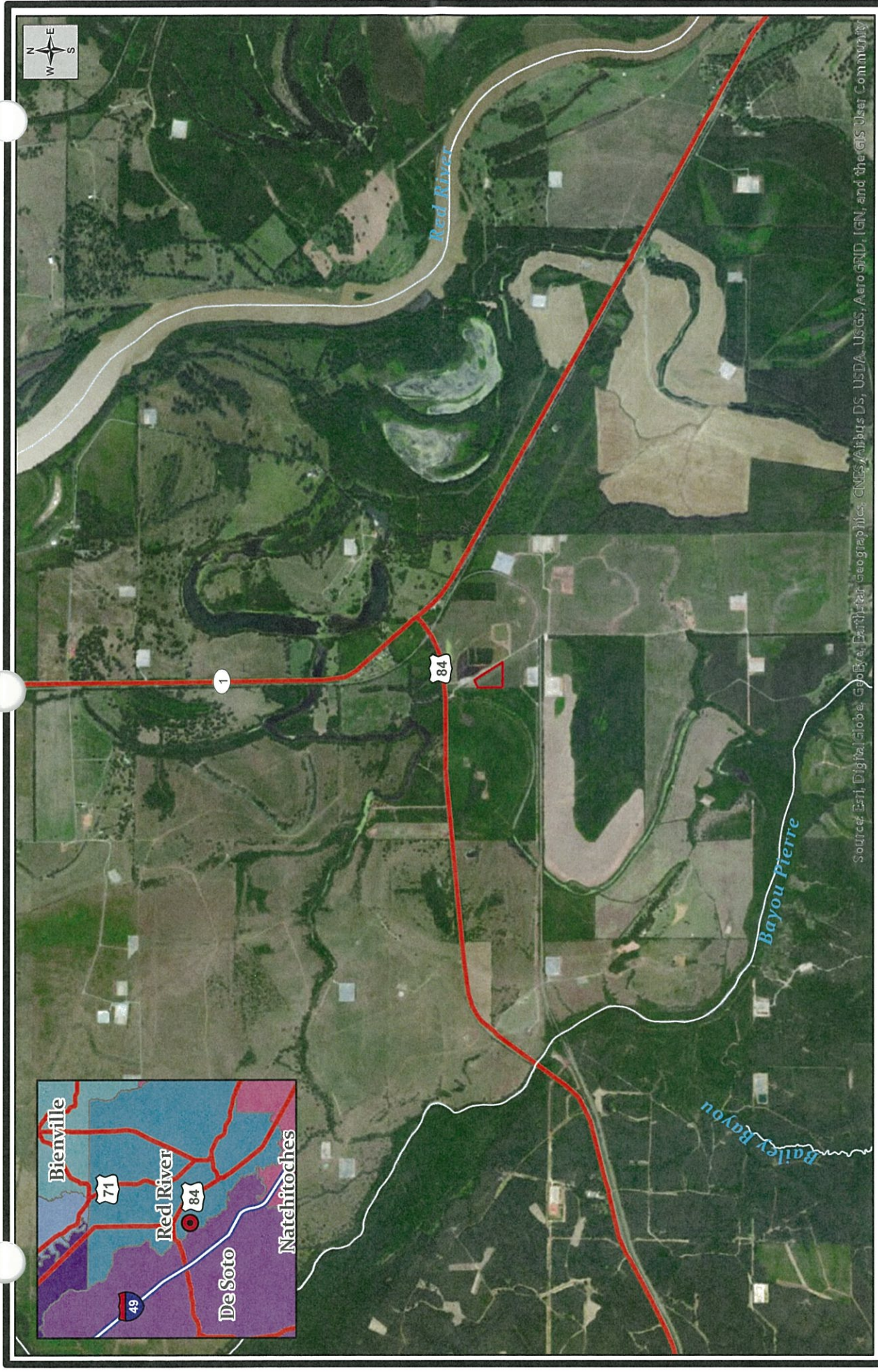
No

11. (Semantic) Does the project intersect the Louisiana black bear Range?

Automatically answered

No

Appendix A
Project Figures



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Figure 1 of 5
Location Map

Wetlands Evaluation

Date: November 21, 2018



ALTEC - PA Prospect Corporation
Red River Parish, Louisiana

CES Project No. 18-CES-68
Created By: Joseph Gerland
Coordinates: 32.081336, -93.478371

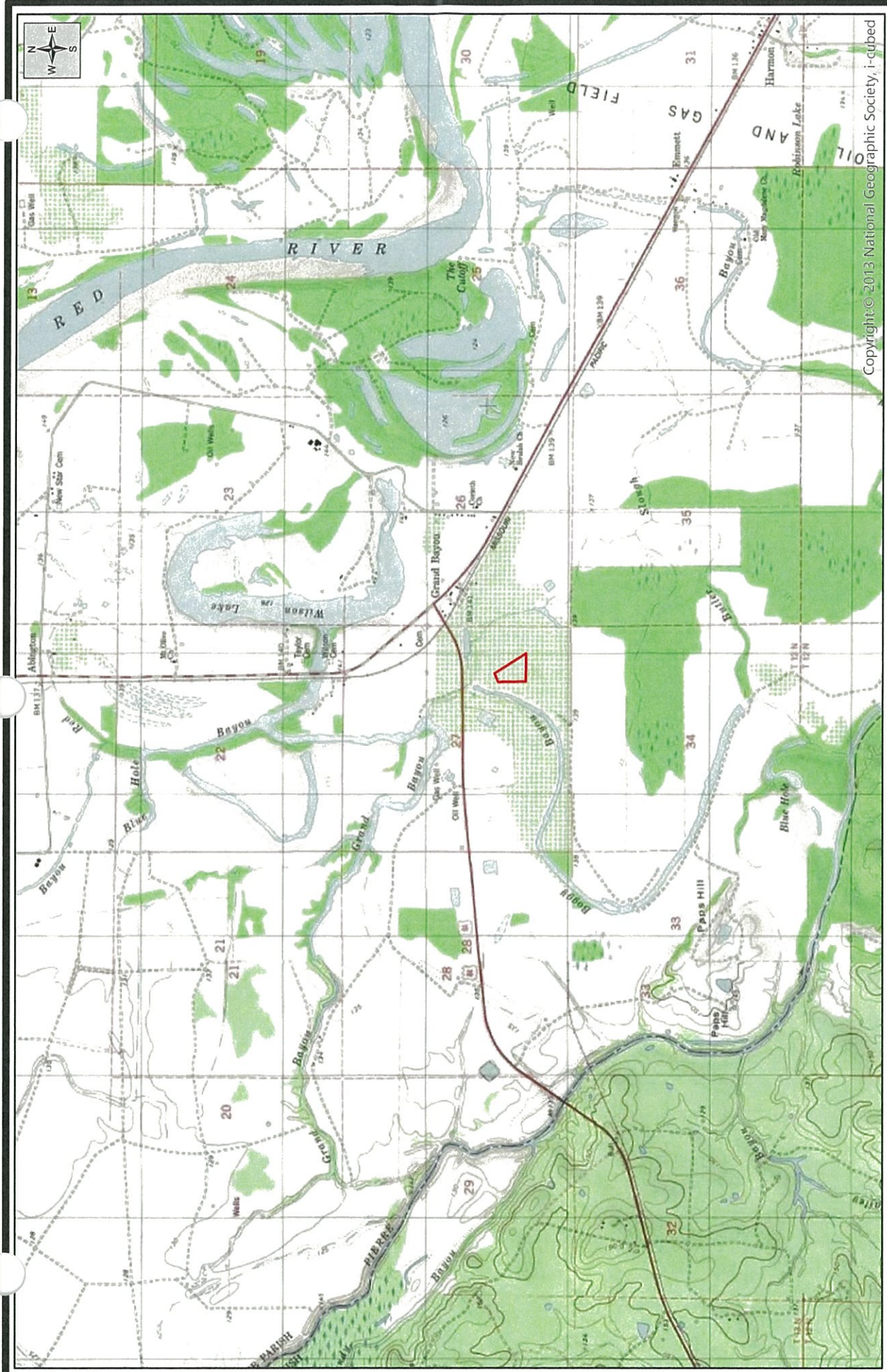
Imagery Source: ESRI
Vector Source: CES, ESRI, & USGS
Datum: NAD 1983 UTM Zone 15N





<p>Figure 2 of 5 Waters of the U.S.</p>	<p>Wetlands Evaluation</p> <p>ALTEC - PA Prospect Corporation Red River Parish, Louisiana</p> <p>CES Project No. 18-CES-68 Created By: Joseph Gerland Coordinates: 32.081336, -93.478371</p> <p>Scale: 0 250 500 1,000 1,500 2,000 Feet</p> <p>Imagery Source: ESRI Vector Source: CES Datum: NAD 1983 UTM Zone 15N</p>	<p>Date: November 21, 2018</p>
	<p>Legend: ⊕ Data Point Project Site</p>	





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Figure 3 of 5
Topographic Map

Wetlands Evaluation

Date: November 21, 2018



CES Project No. 18-CES-68
Created By: Joseph Gerland
Coordinates: 32.085679, -93.479863



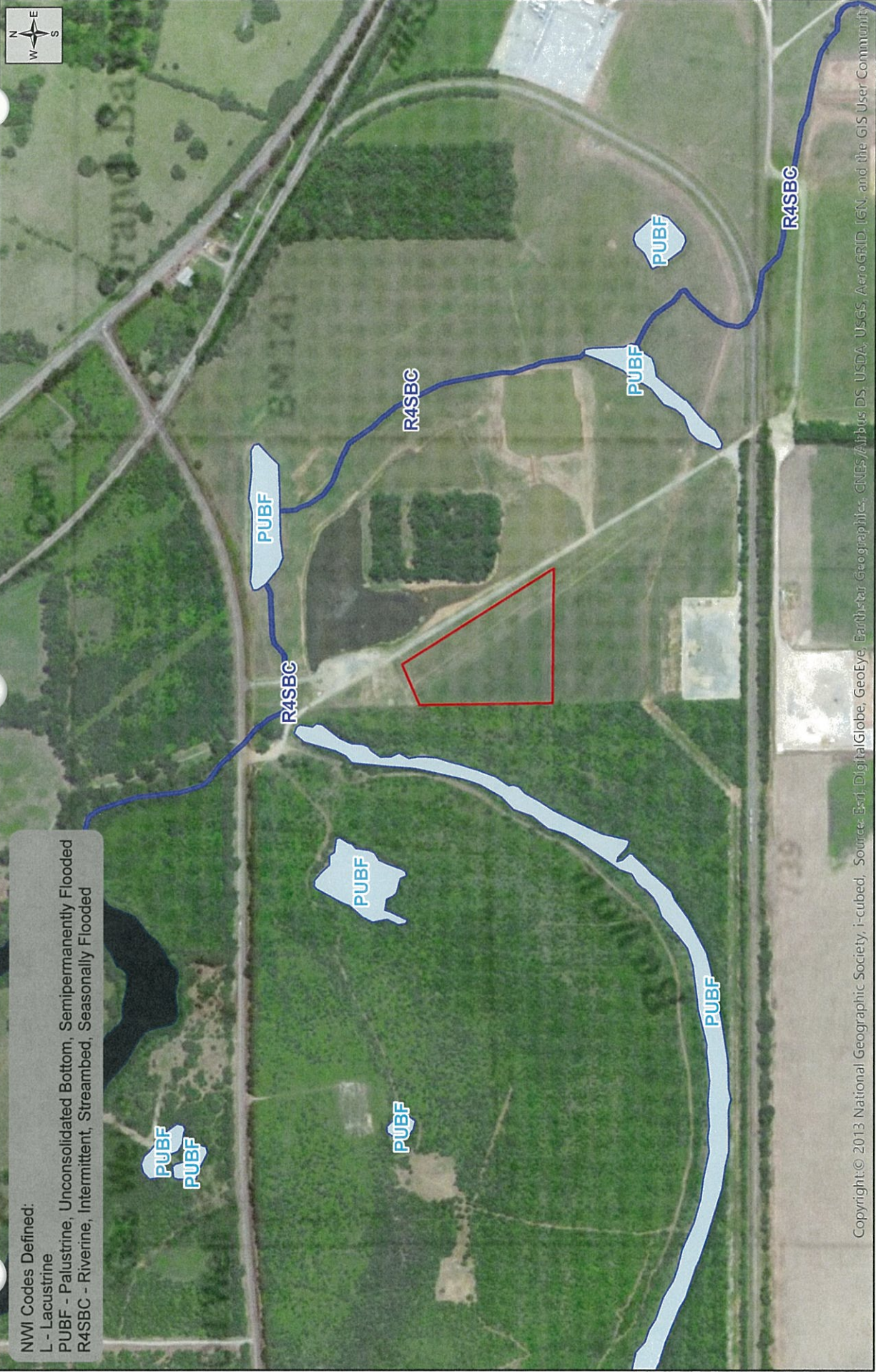
Quad: Harmon
Imagery Source: NGS
Vector Source: CES
Datum: NAD 1983 UTM Zone 15N

Project Site



NWI Codes Defined:

- L - Lacustrine
- PUBF - Palustrine, Unconsolidated Bottom, Semipermanently Flooded
- R4SBC - Riverine, Intermittent, Streambed, Seasonally Flooded



Copyright: © 2013 National Geographic Society, i-cubed, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Figure 4 of 5
National Wetlands
Inventory



Wetlands Evaluation



ALTEC - PA Prospect Corporation
Red River Parish, Louisiana

CES Project No. 18-CES-68
Created By: Joseph Gerland
Coordinates: 32.082384, -93.478858

Imagery Source: ESRI & NGS
Vector Source: CES & USFWS
Datum: NAD 1983 UTM Zone 15N


Date: November 21, 2018

- NWI - Freshwater Pond
- NWI - Riverine
- NWI - Lacustrine
- Project Site



Soil Codes Defined:
 Caspiana silty clay loam, 0 to 1 percent slopes (Cn)

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

<p>Figure 5 of 5 Soil Data Map</p>	<p>Wetlands Evaluation</p> <p>ALTEC - PA Prospect Corporation Red River Parish, Louisiana</p> <p>Scale: 0 250 500 1,000 1,500 2,000 Feet</p> <p>Imagery Source: ESRI Vector Source: CES & NRCS Datum: NAD 1983 UTM Zone 15N</p>	<p>Date: November 21, 2018</p>
 <p>CASTILAW ENVIRONMENTAL SERVICES, LLC 936-519-9991</p>	<p>CES Project No. 18-CES-68 Created By: Joseph Gerland Coordinates: 32.081958, -93.478268</p>	<p>Non-Hydric <input type="checkbox"/> Project Site</p>

Appendix B

Photographic Documentation



Photograph 1 – A representative photograph of the proposed project site which is comprised of maintained pastureland. View to the north from the data point.



Photograph 2 – Another representative photograph of the proposed project site. View to the east from the data point.



Photograph 3 – Another representative photograph of the proposed project site. View to the south from the data point.



Photograph 4 – Another representative photograph of the proposed project site. View to the west from the data point.