# Exhibit 10. Wetlands & Environmental Report



Town of Montgomery

## **November 8, 2018**

## **ENVIRONMENTAL OVERVIEW**

# TOWN OF MONTGOMERY, LOUISIANA

31 ACRE INDUSTRIAL SITE

Section 8, T8N, R5W

Grant Parish, Louisiana

Prepared for:

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#### **ENVIRONMENTAL OVERVIEW**

On October 26, 2018, Wayne Kilpatrick with NoLa Soil Services, Inc. conducted an environmental overview of the proposed Town of Montgomery, Louisiana - 31 Acre Industrial Site. The scope of this environmental overview consisted of reviewing the proposed industrial site for issues pertaining to the impact to listed Threatened and Endangered Species and/or their habitat, and areas Jurisdictional under Section 404 of the Clean Water Act and reviewing the area for significant historical and cultural sites. Drainage areas leading away from the proposed industrial site were reviewed along with the adjacent areas of habitat typically recognized as being suitable for the listed Threatened and Endangered Species. Representative photographs, supporting soil data, vegetative survey and hydrology data were taken and are presented for documentation.

The proposed industrial site dimensions are shown on the attached aerial photos. The project site borders the east side of U. S. Highway 71; approximately 1.06 miles north of the Town of Montgomery. The proposed project is located in Sec. 8, T8N, R5W, Grant Parish, Louisiana.

#### SETTING AND CONDITIONS

#### Landform-Soil Relations:

The proposed project site is located on the Coastal Plain Uplands. The landform consists of a gently sloping convex ridge and moderately sloping side slopes. The soils formed in loamy sediments of Pleistocene Age Deposits. Three (3) soil series were observed on this proposed project.

| Soil Name | Classification      | Position                        | Drainage        | Water Table             | Hydric/<br>Non-Hydric | Flooding |
|-----------|---------------------|---------------------------------|-----------------|-------------------------|-----------------------|----------|
| Upland    |                     |                                 |                 |                         |                       |          |
| Gurdon    | Aquic Paleudults    | Lower elevation                 | Moderately well | 1.0' to 2.0' Nov Apr.   | Non-hydric            | None     |
| Malbis    | Plinthic Paleudults | Lower ridgetops and side slopes | Moderately well | 2.5' to 4.0' Dec Mar.   | Non-hydric            | None     |
| Ruston    | Typic Paleudults    | Convex ridge                    | Well            | >6' below surface layer | Non-hydric            | None     |

#### LAND USE

The land use at the proposed project is woodlands. Woodlands consist of Loblolly pines approximately 30 years of age and mixed upland hardwoods 30 to 35 years of age. Understory of trees and saplings are Loblolly pines and mixed upland hardwoods.

#### 404 JURISDICTIONAL AREA (WETLAND OR WATER OF U.S.)

The on-site inspection suggests no 404 Jurisdictional areas (wetland or water of U.S.) will be subject to impact by the proposed project. There are two areas along the east side of the site where runoff after excess rainfall events flow to the east off of the property. These areas are indicated by blue lines. It was determined that these two areas meet the criteria for ephemeral drains. There are no well-defined channels on this proposed project. The runoff flow only responds to heavy rainfall. These features only flow less than 20% of the year during normal rainfall conditions. Most of the excess runoff into these two areas is due to a logging road. The road acts as a diversion and diverts surface water into these two areas of lower elevations. These soils do not meet the criteria for hydric soils due to soil properties and soil hydrology. This determination is based on data collected for soils, hydrology, and vegetation (see attached data forms for Routine Wetland Determination). The proposed project will not impact any intermittent and perennial drains or any other 404 Jurisdiction areas.

#### DRAINAGE AND RECEIVING WATERS

Basically, surface runoff drains in a southeastward direction from the proposed project area. The runoff drains into an unnamed tributary and flows approximately 2.04 miles into Nantachie Creek.

#### CULTURAL AND HISTORICAL RESOURCES

The proposed project will not impact any previous recorded archaeological sites or other recorded cultural resources. If cultural resources are encountered, the construction will cease in the immediate area and the appropriate state agency will be notified.

#### **ENDANGERED SPECIES**

According to current information on the Region 4 Listed Species by State, Endangered Species; U. S. Fish & Wildlife Service, the listed species for Grant Parish, Louisiana, are the (5) following individuals:

- 1. Northern Long-Eared Bat (Myotis Sepentrionalis) Occurrence within Parish is known, status is threatened.
- 2. Mussel, Louisiana Pearlshell (Margaritifera Hembeli) Occurrence within parish is known, status is threatened.

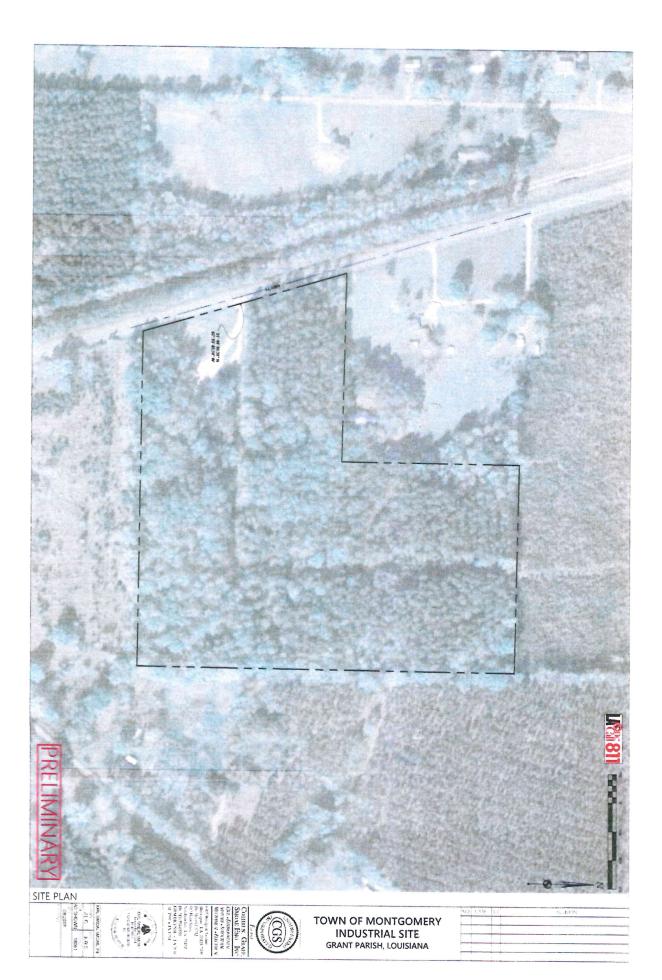
- 3. Sturgeon, Pallid (Scaphirhynchus albus) Occurrence within parish is possible, status is endangered.
- 4. Tern, Least (Sterna Antillarum) Occurrence within parish is possible, status is endangered.
- 5. Woodpecker, Red-Cockaded (Picoides Borealis) Occurrence within parish is known, status is endangered.

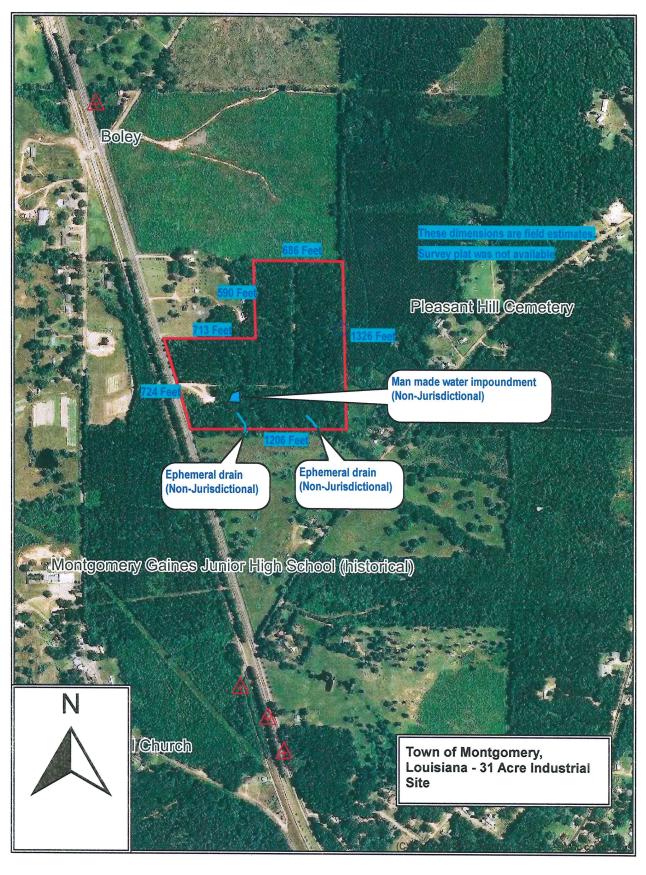
Listed below are more detailed descriptions and discussion of the species listed above:

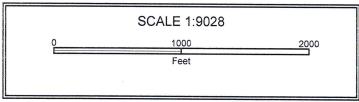
- 1. Northern Long-eared Bat (Myotis Septentrionalis) The species requires shelter such as abandoned buildings, caves, and/or under hang of bridges. There are no structures at/or near this project site; therefore, it is unlikely that this bat would be near the area of concern.
- 2. Mussel, Louisiana Pearlshell (Margaritifera Hembeli) This species is found in small sandy creeks with stable sand and gravel in clear-flowing shallow water. It is very unlikely to find this mussel species within the project site due to lack of constant flowing water in drain beds. There are no features that meets the criteria for desirable habitat. This type habitat is further to the east approximately 27 miles along Little River and its tributaries.
- 3. Sturgeon, Pallid (Scaphirhynchus Albus) The Pallid Sturgeon is associated with bottoms of large, turbid, and relatively warm, free flowing rivers. The proposed project should not impact this species; no features of this kind are near the site.
- 4. Tern, Least (Sterna Antillarum) The Least Tern occurs along major river systems such as Red River Ecosystem. The Least Tern takes advantage of constantly changing river pool stages and fish concentrations in pools by retreating flows. River impoundment, channelization, and levee construction have caused a decline in the desirable habitat. The proposed project should not impact any of the bird's habitat if it is ever present within the area.
- 5. Woodpecker, Red-Cockaded (Picoides Borealis) The Red-cockaded woodpecker occurs in mature pine forests; more specifically, those with long leaf pines averaging 80 to 120 years old and loblolly pines averaging 70 to 100 years old. The Red-cockaded woodpeckers are a territorial and non-migratory species. Each group needs an average of 200 acres of old pine forest to support it needs. This project should not impact the Red-cockaded Woodpecker. All pines on or near the site are 35 years or less.

#### **SUMMARY**

In Summary, the proposed project will not impact any intermittent and/or perennial drains. There is a small man made dugout on site. This water impoundment was constructed years ago as a water supply for livestock. The small dugout dries up during the late summer and early fall. This water body is not Jurisdictional under the 404 Clean Water Act. There are no issues to be addressed concerning Threatened or Endangered Species, historical and/or cultural sites and 404 Jurisdictional areas. This environmental overview provides reasonable certification that a diligent and reasonable effort was made on the day of the study to ascertain that all environmental issues were addressed.







## POINT OF CONTACT

Contact Mr. Wayne Kilpatrick of NoLa Soil Services, Inc. at the following address:

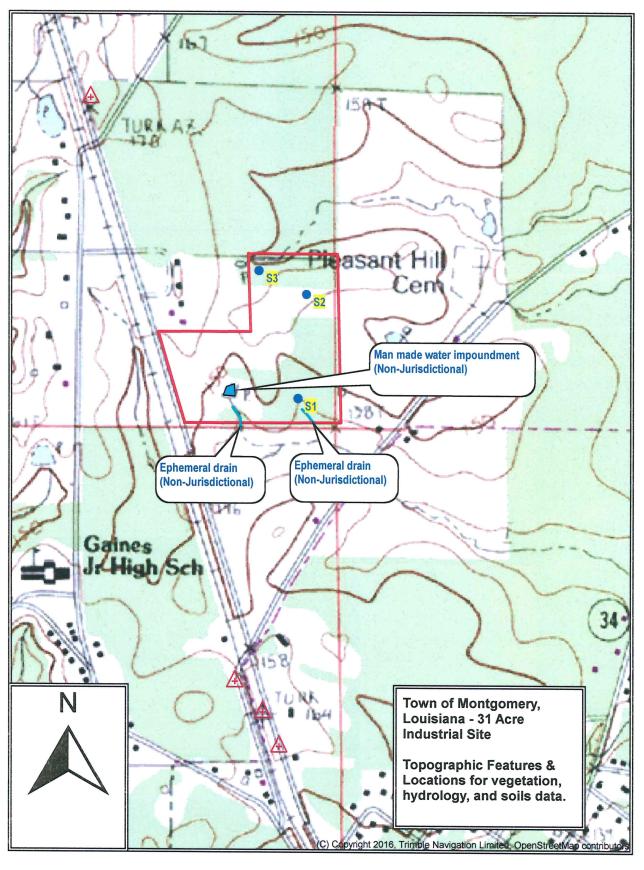
NoLa Soil Services, Inc. 760 Highway 521 Haynesville, Louisiana 71038 Phone: (318) 624-2465

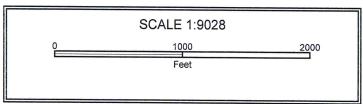
Fax: (318) 624-2465

## CITY OF MONTGOMERY, LOUISIANA

## 31 ACRE INDUSTRIAL SITE SEC. 8, T8N, R5W GRANT PARISH, LOUISIANA

LOCATION FOR VEGETATION, HYDROLOGY AND SOILS DATA MAP





#### CITY OF MONTGOMERY, LOUISIANA

## 31 ACRE INDUSTRIAL SITE SEC. 8, T8N, R5W GRANT PARISH, LOUISIANA

#### INTRODUCTION TO ROUTINE WETLAND DETERMINATION DATA

The proposed project site was traversed on foot. Several soil borings were taken and vegetation data along with hydrologic conditions were noted and recorded. The dominant soils observed were Gurdon, Malbis, and Ruston. Presented are COE Data Sheets for representative descriptions as observed on this proposed project.

# WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

| Project/Site: Town of Montgomery - 31 Acre Indu                                | ustrial Site City/C                                 | County: Grant             |                      | Sampling Date: 10/26/2018       |
|--|---|---------------------------|----------------------|---------------------------------|
| Applicant/Owner: Town of Montgomery, Louisian                                  |   |                           |                      | Sampling Point: S-1             |
| Investigator(s): Wayne Kilpatrick Section, Township, Range: Sec. 8, T8N, R5W   |   |                           |                      |                                 |
| Landform (hillslope, terrace, etc.): Terrace                                   | Local   | relief (concave, convex   | none): Convex        | Slope (%): 2                    |
| Subregion (LRR or MLRA): 133-B   | Lat: 31 40 48.8                                     | B2 Long:                  | 92 53 37.29          | Datum: 83                       |
| Soil Map Unit Name: Gurdon silt loam, 1 to 3%                                  |   |                           |                      | cation:                         |
| Are climatic / hydrologic conditions on the site typical f                     | or this time of year? Y                             | 'es X No                  | (If no, explain in F | Remarks.)                       |
| Are Vegetation, Soil, or Hydrology   |   |                           |                      |                                 |
| Are Vegetation, Soil, or Hydrology   |   |                           | explain any answe    |                                 |
| SUMMARY OF FINDINGS - Attach site n  |   |                           |                      | ·                               |
| Hydrophytic Vegetation Present? Yes X  | No  |                           |                      |                                 |
| Hydric Soil Present? Yes   | No ×  | Is the Sampled Area       |                      | <b>v</b>                        |
| Wetland Hydrology Present? Yes   | No ×  | within a Wetland?         | Yes                  | No X                            |
| HYDROLOGY  |   |                           |                      |                                 |
| Wetland Hydrology Indicators:  |   |                           |                      |                                 |
| Primary Indicators (minimum of one is required; chec                           | ok all that apply                                   |                           |                      | ators (minimum of two required) |
|  |   |                           |                      | Cracks (B6)                     |
|  | uatic Fauna (B13)<br>arl Deposits (B15) <b>(LRI</b> | D 11/                     |                      | getated Concave Surface (B8)    |
|  | drogen Sulfide Odor (                               | •                         | Drainage Pa          |                                 |
|  |   | long Living Roots (C3)    |                      | Water Table (C2)                |
|  | esence of Reduced Iro                               |                           | Crayfish Bur         |                                 |
| Drift Deposits (B3)  | cent Iron Reduction in                              | Tilled Soils (C6)         | ☐ Saturation V       | isible on Aerial Imagery (C9)   |
|  | in Muck Surface (C7)                                |                           | Geomorphic           | Position (D2)                   |
|  | ner (Explain in Remark                              | (\$)                      | Shallow Aqu          |                                 |
| Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)           |   |                           | FAC-Neutral          |                                 |
| Field Observations:  |   |                           | Sphagnum r           | moss (D8) <b>(LRR T, U)</b>     |
|  | _ Depth (inches):                                   |                           |                      |                                 |
|  | Depth (inches):                                     |                           |                      |                                 |
| Saturation Present? Yes No _x  |   |                           | Hydrology Presei     | nt? Yes No X                    |
| (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring) |   |                           |                      | 10                              |
| Describe Necolded Data (stream gauge, mornioring                               | well, aeriai priotos, pre                           | vious inspections), if av | aliable:             |                                 |
| Remarks:   |   |                           |                      |                                 |
|  |   |                           |                      |                                 |
|  |   |                           |                      |                                 |
|  |   |                           |                      |                                 |
|  |   |                           |                      |                                 |
|  |   |                           |                      |                                 |
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|  |   |                           |                      |                                 |
|  |   |                           |                      |                                 |
|  |   |                           |                      |                                 |
|  |   |                           |                      |                                 |
|  |   |                           |                      |                                 |

## VEGETATION (Four Strata) - Use scientific names of plants.

50% of total cover: 45

50% of total cover: 30

50% of total cover: N/A

5

5

50% of total cover: 10. 20% of total cover: 4

20% of total cover: N/A

Tree Stratum (Plot size: 30'R

3. Liquidambar styraciflua

Sapling/Shrub Stratum (Plot size: 30'R

1 Pinus taeda

2. Nyssa sylvatica

4. Quercus nigra

5. Quercus falcata

1. Nyssa sylvatica

3. Quercus nigra

4. Quercus falcata

2. Vitis rotundifolia

5. Cratagius marshallii

Herb Stratum (Plot size: 30'R 1. Smilax rotundifolia

3. Ampelopsis cordata

Woody Vine Stratum (Plot size: 30'R)

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

2. Liquidambar styraciflua

|   | Absolute  | Dominant     | Indicator | Sampling Point: S-1  Dominance Test worksheet:   |
|---|-----------|--------------|-----------|--|
| That Are OBL, FACW, or FAC: 8   |           |              |           |  |
| Total Number of Dominant   Species Across All Strata:   8   (B)   |           |              |           |  |
| Species Across All Strata: 8 (B)  N FACU  N FACU  Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 0 x 1 = 0 FAC Species 160 x 3 = 480 FAC Species 160 x 3 = 480 FAC Species 10 x 4 = 40 UPL species 0 x 5 = 0 UPL species 0 x 5 = 0 UPL species 0 x 5 = 0 UPL species 10 x 4 = 40 UPL species 0 x 5 = 0 FACW Species 10 x 4 = 40 UPL species 0 x 5 = 0 FACW Species 10 x 4 = 40 UPL species 0 x 5 = 0 UPL species 10 x 4 = 40 UPL species 0 x 5 = 0 UPL species 10 x 4 = 40 UPL species 0 x 5 = 0 UPL species 10 x 4 = 40 UPL species 0 x 5 = 0 UPL species 10 x 4 = 40 UPL species 0 x 5 = 0 UPL species 10 x 4 = 40 UPL species 0 x 5 = 0 UPL species 10 x 4 = 40 UPL species 10 x 4 = 40 UPL species 10 x 4 = 40 UPL species 0 x 5 = 0 UPL species 10 x 4 = 40 UPL species 0 x 5 = 0 UPL species 10 x 4 = 40 UPL species 0 x 5 = 0 UPL species 0 x 5 = 0 UPL species 10 x 4 = 40 UPL species 10 x 4 = 4                          |           |              |           | Total Number of Dominant   |
| Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FACW species 160 x 3 = 480 FAC species 10 x 4 = 40 UPL species 10 x 4 = 40 UPL species 0 x 5 = 0 Column Totals: 170 (A) 520 (B)  Prevalence Index = B/A = 3.05 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is \$3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)  '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 vines greater than 3.28 ft in height.  Woody vine — All woody vines greater than 3.28 ft in height.  **Total Cover**   |           |              |           | 0  |
| That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 0 x1 = 0  FAC Species 160 x3 = 480  FAC Species 160 x3 = 480  FAC UPL species 0 x4 = 40  UPL species 0 x5 = 0  Column Totals: 170 (A) 520 (B)  Prevalence Index = B/A = 3.05  Hydrophytlc Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is \$3.0¹  Problematic Hydrophytic Vegetation¹ (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  Woody vine — All woody vines greater than 3.28 ft in height.   |           |              |           | Percent of Dominant Species  |
| Total Cover 18  Total Cover 19  Total Cover 10  Total Cover 19  Total Cover 19  Total Cover 19  Total Cover 10  Total Cover 19  Total Cover 19  Total Cover 19  Total Cover 10  Total Cover 19  Total Cover 19  Total Cover 19  Total Cover 10  Total Cover 19  Total Cover 19  Total Cover 19  Total Cover 10  Total Cover 19  Total Cover 19  Total Cover 19  Total Cover 10  Total Cover 19  Total Cover 19  Total Cover 19  Total Cover 10  Total Cover 19  Total Cover 19  Total Cover 19  Total Cover 10  Total Cover 19  Total Cover 19  Total Cover 19  Total Cover 10  Total Cover 19                          | 10        | <u>N</u>     | FACU      | 71 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2   |
| OBL species 0 x1 = 0 FACW species 160 x3 = 480 FAC species 10 x4 = 40 UPL species 0 x5 = 0 Column Totals: 170 (A) 520 (B) FAC 10 N FAC OUT TOTAL SPECIES 170 (A) 520 (B) FACW species 10 x4 = 40 UPL species 0 x5 = 0 Column Totals: 170 (A) 520 (B) FACW species 10 x4 = 40 UPL species 0 x5 = 0 Column Totals: 170 (A) 520 (B) FACW species 10 x4 = 40 UPL species 0 x5 = 0 Column Totals: 170 (A) 520 (B) FACW species 10 x4 = 40 UPL species 0 x5 = 0 Column Totals: 170 (A) 520 (B) FACW species 10 x4 = 40 UPL spec                          |           |              |           | Prevalence Index worksheet:  |
| Total Cover 20% of total cover: 18  TACW species 0 x2 = 0  FAC species 160 x3 = 480  FAC species 10 x4 = 40  ID N FAC DUPL species 0 x5 = 0  Column Totals: 170 (A) 520 (B)  Prevalence Index = B/A = 3.05  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  Problematic Hydrophytic Vegetation¹ (Explain)  1 - Rapid Test for Hydrophytic Vegetation¹  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  Problematic Hydrophytic Vegetation¹ (Explain)  1 - Rapid Test for Hydrophytic Vegetation on the species 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.  Sapiling/Shrub — Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tail.  Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft all.  Woody vine — All woody vines greater than 3.28 ft in height.  4 Hydrophytic Vegetation  Hydrophytic Vegetation  4 Hydrophytic Vegetation   |           |              |           |  |
| 20% of total cover: 16  20  Y FAC  20  Y FAC  20  Y FAC  20  N FAC  30  N FAC  30  N FAC  30  | 90        | Total Cov    | er        | ×1-  |
| FAC Species 10  | 20% of    | total cover: | 18        | 17/01/ 3000163   |
| PAC   PAC   PAC   PAC   PAC   Paccies   O                             | _         |              |           | FAC species 160 x 3 = 480  |
| Column Totals: 170 (A) 520 (B)  Prevalence Index = B/A = 3.05    Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation   | 20        | Υ            | FAC       | FACU species 10 x 4 = 40   |
| Prevalence Index = 8/A = 3.05    Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is >50%     3 - Prevalence Index is \$3.0°     Problematic Hydrophytic Vegetation     2 - My FAC     Y FAC     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 vines greater than 3.28 ft in height.    0   | 15        | Y            | FAC       | UPL species 0 x 5 = 0  |
| Prevalence Index = B/A = 3.05    Hydrophytic Vegetation Indicators:   1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is > 50%     3 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation¹ (Explain)     1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is > 50%     3 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation¹ (Explain)     1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is > 50%     3 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation     1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is > 50%     3 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation     1 - Rapid Test for Hydrophytic Vegetation     2 - Dominance Test is > 50%     3 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation     2 - Dominance Test is > 50%     3 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation     2 - Dominance Test is > 50%     3 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation     3 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation     4 - Problematic Hydrophytic Vegetation     5 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation     5 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation     5 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation     6 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation     6 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation     6 - Prevalence Index is \$3.0¹     9 - Prevalence Index is \$3.0¹     Problematic Hydrophytic Vegetation     9 - Problematic Hydrophytic Vegetation     9 - Prevalence Index is \$3.0¹     9 - Prevalence Ind | 10        | N            | FAC       | Column Totals: 170 (A) 520 (B  |
| Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0¹  Problematic Hydrophytic Vegetation¹ (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.  Total Cover  Hydrophytic Vegetation  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is > 50%  3 - Prevalence Index is ≤ 3.0¹  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present.  Indicators of hydric soil and wetland hydrology must be present.  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present.  Indicators of hydric soil and wetland hydrology must be present.  Indicators of hydric soil and wetland hydrology must be present.  Indicators of hydric soil and wetland hydrology must be present.  Indicators of hydric soil and wetland hydrology must be present.  Indicators of hydric soil and wetland hydrology must be present.  Indicators of hydric soil and wetland hydrology must be present.  Indicators of hydric soil and wetland hydrology must be present.  Indicators of hydric soil and wetland hydrology must be present.  Indicators of hydric soil and wetland hydrology must be present.  Indicators of hydric soil and wetland hydrology must be present.  Indicators of hydric soil and wetland hydrology in the hydrology must be present.  Indicators of hydric soil and wetland hydrology in the hydrology in the hydrology in the hydrology in the hydrolog                           | 10        | N            | FAC       | 2.05   |
|   | 5         | N            | FAC       |  |
|   |           |              |           |  |
| 3 - Prevalence Index is ≤3.0¹ — Problematic Hydrophytic Vegetation¹ (Explain)  1  |           |              |           |  |
| Problematic Hydrophytic Vegetation¹ (Explain)  Problematic Hydrophytic Vegetation¹ (Explain)  Problematic Hydrophytic Vegetation¹ (Explain)  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.  Tread Cover  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree − Woody plants, excluding vines, less than 3.28 ft (1 m) tall.  Woody vine − All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation  Hydrophytic Vegetation Strata:  Trea − Woody plants, excluding vines, less than 3.28 ft (1 m) tall.  Herb − All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height.   |           |              |           |  |
| 20% of total cover: 12  O Y FAC  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.  Tree – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation  | 30 .      | Total Cov    | er        |  |
| o Y FAC  Y FAC  Y FAC  Y FAC  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 in height.  Woody vine - All woody vines greater than 3.28 ft in height.  Total Cover  Total Cover  Total Cover  Total Cover  |           |              |           | Problematic Hydrophytic Vegetation' (Explain)  |
| be present, unless disturbed or problematic.  Y FAC  Y FAC  Y FAC  Y FAC  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.  Total Cover  4  Hydrophytic Vegetation  Yes Y  |           |              | -         | The state of the s |
| 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.  O = Total Cover  20% of total cover: 4  Hydrophytic Vegetation  Tree - Woody plants, excluding vines, less than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height.   | 10        |              |           | be present, unless disturbed or problematic.   |
| 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.  Total Cover  Total Cover  Hydrophytic Vegetation  Tree – Woody plants, excluding vines, less than 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height.   |           |              |           | Definitions of Four Vegetation Strata:   |
| 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.  Total Cover  Hydrophytic Vegetation  Troat Cover   |           |              | - AC      | more in diameter at breast height (DBH), regardless of   |
| of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Total Cover  |           |              |           | Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  |
| height.  0 = Total Cover  20% of total cover: 4  Hydrophytic Vegetation  Total Cover  |           |              |           | Herb - All herbaceous (non-woody) plants, regardles: of size, and woody plants less than 3.28 ft tall.   |
| 20% of total cover: 4  Hydrophytic Vegetation   |           |              |           |  |
| 20% of total cover: 4  Hydrophytic Vegetation   |           |              |           |  |
| Hydrophytic  Total Cover Vegetation   |           |              |           |  |
| ▼ Total Cover Vegetation  | 20% of 1  | total cover: | 4         |  |
| ▼ Total Cover Vegetation  |           |              |           |  |
| ▼ Total Cover Vegetation  |           |              |           |  |
| ▼ Total Cover Vegetation  |           |              |           |  |
| ▼ Total Cover Vegetation  |           |              |           | *  |
| ▼ Total Cover Vegetation  |           |              |           |  |
| Total Cover Vegetation  |           |              |           |  |
| 20% of total cover: N/A   Present Yes No  |           |              |           |  |
|   | 200/ of t | otal cover:  | N/A       | riesellit 165 _ No   |

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Sampling Point: S-1

|  |   |   |  |   |  | or confirm                                       | n the absence of Inc  | ilcators.)   |
|--|---|---|--|---|--|--|---|--|
| Depth<br>(inches)  | Matrix<br>Color (moist)   | %   | Redo<br>Color (moist)                          | x Feature<br>%  | Type <sup>1</sup>  | Loc²   | Texture   | Remarks  |
| 0-4  | 10YR4/3   | 100   |  |   |  |  | SIL   | Nomarko  |
| 4-11   | 10YR5/3   | 100   | Marian Adam Adam Adam Adam Adam Adam Adam Adam | -   |  |  | SIL   |  |
| 11-16  | 10YR6/3   | 80  | 10YR5/6  | 20  | C  | _M   | SICL  | _  |
| 16-42  | 10YR6/3   | 60  | 10YR6/2  | 30  | D  | М  | SICL ·  |  |
|  |   |   | 10YR5/6  | 10  | C  | M  | SICL  |  |
|  | ***************************************   |   |  | -   | -  |  |   |  |
|  |   |   | • •  |   | -  |  |   |  |
| ¹Type: C=C   | oncentration, D=D   | epletion, RM  | =Reduced Matrix, MS                            | S=Maske   | d Sand Gr  | ains   | 2l ocation: Pl =P   | ore Lining, M≃Matrix.  |
| Histosol Histic Ep Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast Pr Sandy M Sandy G Sandy R Stripped | (A1) Dipedon (A2) Stic (A3) In Sulfide (A4) Di Layers (A5) Bodies (A6) (LRR Icky Mineral (A7) (esence (A8) (LRR Ick (A9) (LRR P, T Di Below Dark Surf Iark Surface (A12) Cairie Redox (A16) Ducky Mineral (S1) Eleyed Matrix (S4) edox (S5) Matrix (S6) | (P, T, U)<br>(LRR P, T, U)<br>(U)<br>(D)<br>ace (A11)<br>(MLRA 150,<br>(LRR O, S) | Redox Depre                                    | elow Surface (SS y Mineral ed Matrix trix (F3) Surface (Irk Surface (Irk Surface (Irk Surface (Irk Surface (Irk)) Public (F11) ese Massice (F13) (F17) (MI tric (F18)) edoplain Sedan (Irk) | ace (S8) (L<br>i) (LRR S,<br>(F1) (LRF<br>(F2)<br>F6)<br>e (F7)<br>F8)<br>(MLRA 1<br>les (F12) (<br>(LRR P, T<br>LRA 151)<br>(MLRA 15<br>Soils (F19) | T, U)  51)  LRR O, P,  , U)  0A, 150B)  (MLRA 14 | J) 1 cm Muck (, 2 | A10) (LRR S)  rtic (F18) (outside MLRA 150A,B)  podplain Soils (F19) (LRR P, S, T)  Bright Loamy Soils (F20)  BB)  Material (TF2)  Dark Surface (TF12)  in in Remarks)  of hydrophytic vegetation and ydrology must be present.  sturbed or problematic. |
|  | face (S7) (LRR P  |   |  |   |  |  | T   |  |
| Type: No   |   |   | -  |   |  |  |   | •  |
| Depth (inc   | ches): N/A  |   |  |   |  |  | Hydric Soll Prese   | nt? Yes No X   |
| as<br>·· si  | s Aquic Pale  | udults. ł   | Hydric soils ar                                | e not p   | present  | due to   | hydrology and   | se soils are classified<br>d soil properties at the  |
|  | ٠,  |   |  |   |  |  |   |  |
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# WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

| Project/Site: Town of Montgomery - 31 Acre Industrial Site City/C                        | County: Grant Sampling Date: 10/26/2018                     |
|--|---|
| Applicant/Owner: Town of Montgomery, Louisiana   | State: LA Sampling Point: S-2                               |
|  | on, Township, Range: Sec. 8, T8N, R5W                       |
| Landform (hillslope, terrace, etc.): Ridgetop Local                                      | relief (concave, convex, none): Convex Slope (%): 3         |
| Subregion (LRR or MLRA): 133-B Lat: 31 40 55.6   | 66 Long: 92 53 36.05 Datum: 83                              |
| Soil Map Unit Name: Ruston fine sandy loam, 1 to 5%                                      | NWI classification: U                                       |
| Are climatic / hydrologic conditions on the site typical for this time of year? Y        |   |
| Are Vegetation, Soil, or Hydrology significantly distur                                  |   |
| Are Vegetation, Soil, or Hydrology naturally problems                                    |   |
| SUMMARY OF FINDINGS - Attach site map showing sam  | npling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X   |   |
| Hydric Soil Present? Yes No ×  | Is the Sampled Area   |
| Wetland Hydrology Present? Yes No ×  | within a Wetland? Yes No X                                  |
| Remarks:   |   |
|  |   |
| HYDROLOGY  |   |
| Wetland Hydrology Indicators:  | Secondary Indicators (minimum of two required)              |
| Primary Indicators (minimum of one is required; check all that apply)                    | Surface Soil Cracks (B6)                                    |
| Surface Water (A1)  Aquatic Fauna (B13)  | Sparsely Vegetated Concave Surface (B8)                     |
| High Water Table (A2)  Saturation (A3)  High Water Table (A2)  Hydrogen Sulfide Odor (6) | , and a second (  |
| Saturation (A3) Hydrogen Sulfide Odor (Compared to Marks (B1) Oxidized Rhizospheres a    |   |
| Sediment Deposits (B2)  Presence of Reduced Iro  |   |
| Drift Deposits (B3)  Recent Iron Reduction in  | = , , , , , , , , , , , , , , , , , , ,                     |
| Algal Mat or Crust (B4) Thin Muck Surface (C7)   | Geomorphic Position (D2)                                    |
| Iron Deposits (B5)   | Shallow Aquitard (D3)                                       |
| Inundation Visible on Aerial Imagery (B7)  | FAC-Neutral Test (D5)                                       |
| ☐ Water-Stained Leaves (B9)  Field Observations:   | Sphagnum moss (D8) (LRR T, U)                               |
| Surface Water Present? Yes No X Depth (inches):  |   |
| Water Table Present? Yes No X Depth (inches):  |   |
| Saturation Present? Yes No X Depth (inches):   |   |
| (includes capillary fringe)  |   |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre                | evious inspections), if available:                          |
| Remarks:   |   |
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| Sampling Point: | S-2 |
|-----------------|-----|
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|  | Absolute | Dominant                                | Indicator | Dominance Test worksheet:                                 |
|--|----------|---|-----------|---|
| Tree Stratum (Plot size: 30'R)                             | % Cover  | Species?                                | Status    | Number of Dominant Species                                |
| 1. Pinus taeda   | 30       | Y                                       | FAC       | That Are OBL, FACW, or FAC: 2 (A)                         |
| 2. Quercus falcata   | 25       | Υ                                       | FACU      |   |
| 3. Quercus alba  | 20       | Y                                       | FACU      | Total Number of Dominant Species Across All Strata: 9 (B) |
| 4. Quercus stellata  | 15 .     | N                                       | FACU      | Opedies Adioss All Ottata.                                |
| 5  |          |   |           | Percent of Dominant Species                               |
| 6.   |          |   |           | That Are OBL, FACW, or FAC: 22.2 (A/B)                    |
| 7.   | -        | •                                       |           | Prevalence Index worksheet:                               |
| 8  |          | *************************************** |           | Total % Cover of: Multiply by:                            |
| 0.   | 90       |   |           | OBL species 0 x 1 = 0                                     |
| 45   |          | = Total Cov                             |           | FACW species 0 x 2 = 0                                    |
| 50% of total cover: 45                                     | 20% of   | total cover                             | 10        | FAC species 50 x 3 = 150                                  |
| Sapling/Shrub Stratum (Plot size: 30'R )                   |          |   |           | 125 x 500   |
| 1. Quercus falcata   | 15       | <u>Y</u>                                | FACU      | FACU species 125 x 4 = 500                                |
| 2. Lyonia ligustrina                                       | 15       | Υ                                       | FACU      | UPL species $0 \times 5 = 0$                              |
| 3. Quercus alba  | 10       | Y                                       | FACU      | Column Totals: 175 (A) 650 (B)                            |
| 4. Pinus taeda   | 5        | N                                       | FAC       | 0.74  |
|  |          |   |           | Prevalence Index = $B/A = 3.71$                           |
| 5  |          |   |           | Hydrophytic Vegetation Indicators:                        |
| 6.   |          |   |           | 1 - Rapid Test for Hydrophytic Vegetation                 |
| 7  |          |   | -         | 2 - Dominance Test is >50%                                |
| 8  |          |   |           | 3 - Prevalence Index is ≤3.01                             |
| · ·  |          | = Total Cov                             |           | Problematic Hydrophytic Vegetation¹ (Explain)             |
| 50% of total cover: 22.5                                   |          |   | 9         |   |
| Herb Stratum (Plot size: 30'R )                            | ζ;       | , ,                                     |           | Indicators of hydric soil and wetland hydrology must      |
| 1. Callicarpa americana                                    | 15       | Υ                                       | FACU      | be present, unless disturbed or problematic.              |
| 2. Uniola sessiliflora                                     | 10       | Y                                       | FACU      | Definitions of Four Vegetation Strata:                    |
| 3. Smilax rotundifolia                                     | 10       | Y                                       | FAC       | John Maria of Four Vogatation official.                   |
| 4. Andropogon virginicus                                   | 5        | N                                       | FAC       | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or   |
|  |          |   |           | more in diameter at breast height (DBH), regardless of    |
| 5  |          |   |           | height.   |
| 6  |          |   |           | Sapling/Shrub - Woody plants, excluding vines, less       |
| 7  | -        |   |           | than 3 in. DBH and greater than 3.28 ft (1 m) tall.       |
| 8  |          |   | -         | Herb - All herbaceous (non-woody) plants, regardless      |
| 9  | -        | -                                       |           | of size, and woody plants less than 3.28 ft tall.         |
| 10   |          |   |           | Woody vine - All woody vines greater than 3.28 ft in      |
| 11   |          |   |           | height.   |
| 12. <u>·</u>   |          |   |           |   |
|  | 40       | = Total Cov                             | 0.5       |   |
| 50% of total cover: 20                                     |          |   |           |   |
|  | 20% of   | total cover:                            |           |   |
| Woody Vine Stratum (Plot size: 30'R )                      |          |   |           |   |
| 1  |          |   | •         |   |
| 2.   |          |   |           |   |
| 3.   |          |   |           |   |
| 4  |          |   |           |   |
| 5  |          |   |           | Hydrophytic   |
|  | 0 .      | Total Cov                               | er        | Vegetation  |
| 50% of total cover: N/A                                    |          | total cover:                            |           | Present? Yes No X   |
| Remarks: (If observed, list morphological adaptations belo |          |   |           |   |
| remarks. (Il observed, list morphological adaptations belo | w).      |   |           |   |
| • •  |          |   |           |   |
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| Profile Desc   | ription: (Describe   | to the dep   | th needed to docun  | nent the   | indicator                               | or confirm                               | n the absence of   | indicators.)   |
|--|--|--|---|--|---|--|--|--|
| Depth<br>(inches)  | Matrix Color (moist)   | %  |   | x Feature  | eş.                                     |  |  |  |
| 0-6  | 10YR4/3  | 100  | Color (moist)   | %  | _Type1                                  | _Loc²                                    | <u>Texture</u> _   | Remarks  |
| 6-11   | 10YR5/3  | 100  |   |  |   |  | FSL  |  |
| 11-21  | 2.5YR4/8   | 100  |   |  |   | -  |  |  |
| 21-48  | 2.5YR4/6   | 80   | 10VD6/4   | 20   |   |  | SCL _  |  |
| 48-60  |  |  | 10YR6/4   | 20   | - <u>C</u>                              | <u>M</u>                                 | SCL  |  |
| 46-60  | 5YR5/6   | 70   | 10YR6/4   | 20   | <u>C</u>                                | <u>M</u>                                 | SCL _  |  |
|  |  |  | 10YR5/8   | 10   | <u>C</u>                                | M  | SCL  |  |
| 1  | -  |  | -   |  |   |  |  | ·  |
| Hydric Soil I  | ndicators: (Applic   | letion, RM=  | Reduced Matrix, MS  | S=Maske  | d Sand Gra                              | ains.                                    | <sup>2</sup> Location: Pl  | =Pore Lining, M=Matrix.  |
| Histosol Histic Ep Black His Hydroge Stratified Organic 5 cm Mu Muck Pre 1 cm Mu Depleted Thick Da Coast Pr Sandy M Sandy G Sandy Re Stripped Dark Sun | (A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) Bodies (A6) (LRR P, cky Mineral (A7) (LR esence (A8) (LRR U, ck (A9) (LRR P, T) Below Dark Surface rk Surface (A12) airie Redox (A16) (M ucky Mineral (S1) (Le eyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S) | T, U) R P, T, U)  (A11)  (A11)  (ILRA 150A  RR O, S) | Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleyer Depleted Mati Redox Dark S Depleted Dark Redox Depres Marl (F10) (LF Depleted Och Iron-Mangane Umbric Surfac Delta Ochric ( Reduced Vert Piedmont Floc | low Surface (S9 / Mineral d Matrix rix (F3) Surface (f k Surface (FRR U) ric (F11) ric (F13) (F17) (ML ic (F18) (odplain S | (MLRA 15) (MLRA 15) (MLRA 15) (MLRA 15) | T, U) O) ARR O, P, U) DA, 150B) (MLRA 14 | J) 1 cm Muc 2 cm Muc Reduced Piedmont Anomalou (MLRA Red Pare Very Shal Other (Ex T) Jandicate wetlan unless | nt Material (TF2)  Illow Dark Surface (TF12)  plain in Remarks)  ors of hydrophytic vegetation and dhydrology must be present, disturbed or problematic. |
|  | ayer (if observed):  | 1,0,   |   |  |   | ~  | T  |  |
| Type: Nor  |  |  |   |  |   |  |  |  |
| Depth (inc   | nes): N/A  |  |   |  |   |  | Hydric Soil Pre  | esent? Yes No X  |
| Remarks:   | ia a ail ia vuall  | al !   |   | ·  | Б                                       | <b></b>                                  |  |  |
| Pa   | ils soli is well<br>ileudults. Rus   | ston so  | l and is identifils are never a   | ied as<br>ssocia   | Rustor                                  | n. The                                   | se soils are<br>and conditio   | classified as Typic<br>ns.   |
|  |  |  |   |  |   |  |  |  |

# WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

| Project/Site: Town of Montgomery - 31 Acre Industrial Site City/C  | County: Grant Sampling Date: 10/26/2018  |  |  |  |  |
|--|--|--|--|--|--|
| Applicant/Owner: Town of Montgomery, Louisiana   | State: LA Sampling Point: S-3  |  |  |  |  |
| Investigator(s): Wayne Kilpatrick Section, Township, Range: Sec. 8, T8N, R5W   |  |  |  |  |  |
|  | relief (concave, convex, none): Convex Slope (%): 2  |  |  |  |  |
| Subregion (LRR or MLRA): 133-B Lat: 31 40 58.  | 68 Long: 92 53 40.84 Detum: 83   |  |  |  |  |
| Soil Map Unit Name: Malbis fine sandy loam, 1 to 5%  | NWI classification: U  |  |  |  |  |
| Are climatic / hydrologic conditions on the site typical for this time of year?  |  |  |  |  |  |
| Are Vegetation, Soil, or Hydrology significantly distu   | rbed? Are "Normal Circumstances" present? Yes X No   |  |  |  |  |
| Are Vegetation, Soil, or Hydrology naturally problem   |  |  |  |  |  |
| SUMMARY OF FINDINGS – Attach site map showing san  | -  |  |  |  |  |
| Hydrophytic Vegetation Present?  Yes No X  |  |  |  |  |  |
| Hydric Soil Present?  Yes No _x  | Is the Sampled Area  |  |  |  |  |
| Wetland Hydrology Present? Yes No ×  | within a Wetland? Yes No X   |  |  |  |  |
| HYDROLOGY  |  |  |  |  |  |
| Wetland Hydrology Indicators:  | Secondary Indicators (minimum of two required)   |  |  |  |  |
| Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Aquatic Fauna (B13)   | Surface Soil Cracks (B6)   |  |  |  |  |
| Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Marl Deposits (B15) (LR  | Sparsely Vegetated Concave Surface (B8)  R U)  Drainage Patterns (B10)   |  |  |  |  |
| Saturation (A3)  Hydrogen Sulfide Odor (   |  |  |  |  |  |
| Water Marks (B1) Oxidized Rhizospheres a   | · San Carlotte Control of Control |  |  |  |  |
| Sediment Deposits (B2)  Presence of Reduced Iro  |  |  |  |  |  |
| Drift Deposits (B3)  | n Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)  |  |  |  |  |
| Algal Mat or Crust (B4)  Thin Muck Surface (C7)  | Geomorphic Position (D2)   |  |  |  |  |
| ☐ Iron Deposits (B5) ☐ Other (Explain in Remarl Inundation Visible on Aerial Imagery (B7)  | ,  |  |  |  |  |
| Water-Stained Leaves (B9)  | ☐ FAC-Neutral Test (D5) ☐ Sphagnum moss (D8) (LRR T, U)  |  |  |  |  |
| Field Observations:  | Spriagridii iiloss (Do) (LRR 1, 0)   |  |  |  |  |
| Surface Water Present? Yes No X Depth (inches):  |  |  |  |  |  |
| Water Table Present? Yes No _x Depth (inches):   |  |  |  |  |  |
| Saturation Present? Yes No X Depth (inches): (includes capillary fringe)   | Wetland Hydrology Present? Yes No X  |  |  |  |  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre  | evious inspections), if available:   |  |  |  |  |
| Remarks:   |  |  |  |  |  |
| The state of the s |  |  |  |  |  |
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## VEGETATION (Four Strata) - Use scientific names of plants.

| VEGETATION (Four Strata) – Use scientific na               | Sampling Point: S-3    |               |              |   |  |  |  |  |  |  |
|--|------------------------|---------------|--------------|---|--|--|--|--|--|--|
|  | Absolute               | Dominant      | Indicator    | Dominance Test worksheet:   |  |  |  |  |  |  |
| Tree Stratum (Plot size: 30'R )                            |                        | Species?      |              | Number of Dominant Species  |  |  |  |  |  |  |
| 1. Pinus taeda   | 40                     | <u>Y</u>      | FAC          | That Are OBL, FACW, or FAC: 1 (A)                                 |  |  |  |  |  |  |
| 2. Quercus alba  | 35                     | Υ             | FACU         | Total Number of Dominant  |  |  |  |  |  |  |
| 3. Quercus falcata   | 20                     | γ ′           | FACU         | Species Across All Strata: 5 (B)                                  |  |  |  |  |  |  |
| 4. Liquidambar styraciflua                                 | 5 .                    | N             | FAC          | Description of Description  |  |  |  |  |  |  |
| 5  |                        |               |              | Percent of Dominant Species That Are OBL, FACW, or FAC: 20 (A/B)  |  |  |  |  |  |  |
| 6  |                        |               |              |   |  |  |  |  |  |  |
| 7  |                        |               | _            | Prevalence Index worksheet:                                       |  |  |  |  |  |  |
| 8  |                        |               |              | Total % Cover of:Multiply by:                                     |  |  |  |  |  |  |
|  | 100                    | = Total Cov   | er           | OBL species $\frac{0}{2}$ $\times 1 = \frac{0}{2}$                |  |  |  |  |  |  |
| 50% of total cover: 50                                     | 20% of total cover: 20 |               |              | FACW species $\frac{0}{70}$ $\times 2 = \frac{0}{210}$            |  |  |  |  |  |  |
| Sapling/Shrub Stratum (Plot size: 30'R )                   |                        |               |              | FAC species $\frac{70}{100}$ x 3 = $\frac{210}{500}$              |  |  |  |  |  |  |
| 1. Quercus alba  | 15                     | Υ             | FACU         | FACU species $\frac{130}{}$ x 4 = $\frac{520}{}$                  |  |  |  |  |  |  |
| 2. Quercus falcata   | 15                     | Y             | FACU         | UPL species 0 x 5 = 0   |  |  |  |  |  |  |
| 3. Liquidambar styraciflua                                 | 10                     | N             | FAC          | Column Totals: 200 (A) 730 (B)                                    |  |  |  |  |  |  |
| 4. Pinus taeda   | 10                     | N             | FAC          | 3 65  |  |  |  |  |  |  |
| 5. Prunus serotina   | 10                     | N             | FACU         | Prevalence Index = B/A = 3.65                                     |  |  |  |  |  |  |
|  |                        |               |              | Hydrophytic Vegetation Indicators:                                |  |  |  |  |  |  |
| 6  |                        |               |              | 1 - Rapid Test for Hydrophytic Vegetation                         |  |  |  |  |  |  |
| 7.   |                        |               |              | 2 - Dominance Test is >50%  |  |  |  |  |  |  |
| 8  | . 60                   |               |              | 3 - Prevalence Index is ≤3.0¹                                     |  |  |  |  |  |  |
|  |                        | = Total Cov   |              | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         |  |  |  |  |  |  |
| 50% of total cover: 30                                     |                        |               | : 12         |   |  |  |  |  |  |  |
| Herb Stratum (Plot size: 30'R)                             |                        |               | FACIL        | <sup>1</sup> Indicators of hydric soil and wetland hydrology must |  |  |  |  |  |  |
| 1. Callicarpa americana                                    | 20                     | <u>Y</u>      | FACU         | be present, unless disturbed or problematic.                      |  |  |  |  |  |  |
| 2. Uniola sessiliflora                                     | 10                     | <u>Y</u>      | FACU         | Definitions of Four Vegetation Strata:                            |  |  |  |  |  |  |
| 3. Lyonia ligustrina                                       |                        | <u>N</u>      | FACU         | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or           |  |  |  |  |  |  |
| 4. Smilex rotundifolia                                     |                        | N             | FAC          | more in diameter at breast height (DBH), regardless of            |  |  |  |  |  |  |
| 5  |                        |               |              | height.   |  |  |  |  |  |  |
| 6  |                        | -             | -            | Sapling/Shrub - Woody plants, excluding vines, less               |  |  |  |  |  |  |
| 7  |                        |               |              | than 3 in. DBH and greater than 3.28 ft (1 m) tall.               |  |  |  |  |  |  |
| 8  |                        |               |              | Herb – All herbaceous (non-woody) plants, regardless              |  |  |  |  |  |  |
| 9  |                        |               |              | of size, and woody plants less than 3.28 ft tall.                 |  |  |  |  |  |  |
| 10   |                        |               |              | Manda via a All woody vines greater than 2.29 ft in               |  |  |  |  |  |  |
| 11.  |                        |               |              | Woody vine – All woody vines greater than 3.28 ft in height.      |  |  |  |  |  |  |
| 12.  |                        | -             |              | · · · · · · · · · · · · · · · · · · ·                             |  |  |  |  |  |  |
| 12.  | 40                     | = Total Cov   | /er          |   |  |  |  |  |  |  |
| 50% of total cover: 20                                     |                        |               |              |   |  |  |  |  |  |  |
| Woody Vine Stratum (Plot size: 30'R )                      |                        | 1 10141 00101 |              |   |  |  |  |  |  |  |
|  |                        |               |              |   |  |  |  |  |  |  |
|  |                        |               |              |   |  |  |  |  |  |  |
| 2  |                        |               |              | ,   |  |  |  |  |  |  |
| 3  |                        |               |              |   |  |  |  |  |  |  |
| 4  |                        |               |              |   |  |  |  |  |  |  |
| 5  |                        |               |              | Hydrophytic   |  |  |  |  |  |  |
|  |                        | = Total Cov   |              | Vegetation Present? Yes No x                                      |  |  |  |  |  |  |
| 50% of total cover: N/A                                    | 20% o                  | f total cover | : <u>N/A</u> | Present? Yes No x   |  |  |  |  |  |  |
| Remarks: (If observed, list morphological adaptations belo | ow).                   |               |              |   |  |  |  |  |  |  |
|  |                        |               |              |   |  |  |  |  |  |  |
|  |                        |               |              |   |  |  |  |  |  |  |
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|  |                        |               |              |   |  |  |  |  |  |  |

| Profile Descr  | intion: (Describe  | to the der  | oth needed to docum  | nent the   | indicator  | or confirm                    | the absence of   | indicators.)   |
|--|--|---|--|--|--|-------------------------------|--|--|
| Depth Descri   | Matrix   | to the dep  |  | x Feature  |  |                               | 22301100 01  |  |
| (inches)   | Color (moist)  | %   | Color (moist)  | %  |  | Loc <sup>2</sup>              | Texture  | Remarks  |
| 0-5  | 10YR4/3  | 100   |  | Simple Committee |  |                               | FSL  |  |
| 5-11   | 10YR5/3  | 100   |  |  |  |                               | FSL  |  |
| 11-23  | 7.5YR5/6   | 100   |  | -  |  |                               | SCL  |  |
| 23-32  | 10YR5/6  | 70  | 10YR6/4 · ·  | 25   | С  | M                             | SCL  |  |
|  |  |   | 2.5YR4/8   | 5  | С  | Μ                             | SCL  |  |
| 32-50  | 10YR56   | 50  | 10YR6/3  | 40   | С  | М                             | SCL  |  |
|  |  |   | 10YR6/2  | 10   | D  | M                             | SCL  |  |
| 1- 0.0   |  | letter DM   | =Reduced Matrix, MS  |  |  |                               |  | _=Pore Lining, M=Matrix.   |
| Hydric Soll Ir Histosol ( Histosol ( Histic Epi Black Hist Hydroger Stratified Organic 8 5 cm Muck Muck Pre 1 cm Muck Depleted Thick Dan Coast Pri Sandy Mi Sandy Gi Sandy Gi Sandy Re Stripped Dark Sur | ndicators: (Applic A1) pedon (A2) tic (A3) n Sulfide (A4) Layers (A5) Bodies (A6) (LRR P Exy Mineral (A7) (LR Exence (A8) (LRR U Exk (A9) (LRR P, T) Below Dark Surface rk Surface (A12) airie Redox (A16) (R Exy Mineral (S1) (L Exy Mineral (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S | able to al<br>(, T, U)<br>(RR P, T, U<br>())<br>(e (A11)<br>(MLRA 150<br>(LRR O, S) | LRRs, unless other Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mai Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Oct Iron-Mangan Loamy S Delta Ochric Reduced Ver Piedmont Flo | wise not low Surface (SS y Mineral ed Matrix trix (F3) Surface (rk Surface ssions (F11) ese Massice (F13) (F17); (Mitic (F18) boddlain Spoddlain S | ted.) ace (S8) (Let) (LRR S, (F1) (LRR S, (F2)) ace (F7) ace (F7) be (MLRA 1) control (LRR P, 1) control (MLRA 15) | 51)<br>(LRR O, P<br>T, U)     | J) 1 cm Muc 2 cm Muc Reduced Piedmont Anomalou (MLRA Red Pare Very Sha Other (Ex wetlar unless | ent Material (TF2) Illow Dark Surface (TF12) Explain in Remarks) ors of hydrophytic vegetation and and hydrology must be present, as disturbed or problematic. |
|  | ayer (if observed):  |   |  |  |  |                               |  |  |
| Type: None  Depth (inches): N/A  |  |   |  |  |  | Hydric Soil Present? Yes No X |  |  |
| Domarke:   |  |   |  | ***  |  |                               |  |  |
| l Th   | aleudults. We  |   | drained soil is conditions are   |  |  |                               |  | s are classified as Plinthic   |

# CITY OF MONTGOMERY, LOUISIANA

31 ACRE INDUSTRIAL SITE SEC. 8, T8N, R5W GRANT PARISH, LOUISIANA

SITE PHOTOGRAPHS



Project: Town of Montgomery, LA - 31 Acre Industrial Site

**Photo Description:** This view is in a northward direction along the east side of U.S. Hwy. 71. This proposed 31 acre industrial site is to the right of the highway.



Project: Town of Montgomery, LA - 31 Acre Industrial Site

**Photo Description:** This is a small area being used as a collect point for local household garbage. This area will be removed from this location. The dirt road extends through the proposed project site.



Project: Town of Montgomery, LA - 31 Acre Industrial Site

**Photo Description:** This view from U.S. Hwy. 71 looking east along the south boundary of the proposed site. The soils at this point are moderately well drained and are identified as Malbis fine sandy loam. Wetland criteria is not associated with these soils.



Project: Town of Montgomery, LA - 31 Acre Industrial Site

**Photo Description:** This is a small manmade dugout pond that was built several years ago. The purpose of this water impoundment was for furnishing a water supply for livestock. This area in most years will go dry during the late summer and early fall. The area is identified on enclosed maps. This is a Non-Jurisdictional feature and is not regulated by the "404 Clean Water Act". At the time of the site visit there was no water in this impoundment.



Project: Town of Montgomery, LA - 31 Acre Industrial Site

**Photo Description:** This sample was taken approximately 50 feet from the dugout pond. The upper 6 inches of the soil is brownish and the lower part is a yellowish brown silty clay loam soil. The soil profile indicates that the criteria for hydric soils is not present. The soil is identified as Gurdon silt loam and is classified as Aquic Paleudults. Wetland criteria is not present.



Project: Town of Montgomery, LA - 31 Acre Industrial Site

**Photo Description:** This location is near the northwest corner of the site. The yellowish brown subsoil layers indicates this soil is moderately well drained and is identified as Malbis fine sandy loam. These soils are classified as Plinthic Paleudults. They are not associated with wetland conditions.



Project: Town of Montgomery, LA - 31 Acre Industrial Site

Photo Description: This structure is along the west side of the project site and is off site. The soils are well drained and are identified as Ruston fine sandy loam. They are classified as Typic Paleudults. Ruston soils are never associated with wetland conditions.



Project: Town of Montgomery, LA - 31 Acre Industrial Site

Photo Description: This is the southeast corner of the proposed site. This corner has been established for many years as indicated by the corner post and the two large sweet gum trees. On close examination, you can see the girdle marks made by barbwire in the trees. These soils are moderately well drained and are identified as Malbis fine sandy loam. Wetland conditions are not present at this site.