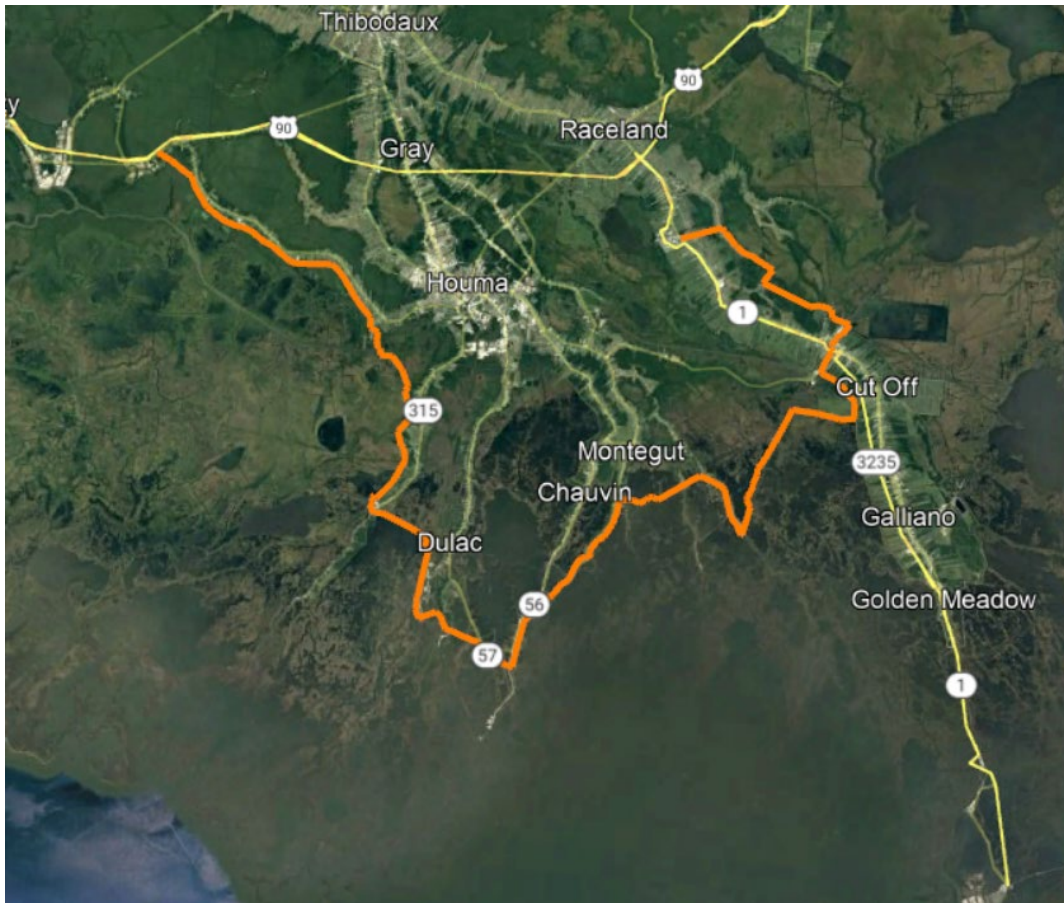


**MORGANZA TO THE GULF  
SURVEYS AND BORINGS ANALYSIS  
TERREBONNE AND LAFOURCHE PARISHES, LOUISIANA**



**APPENDIX F: HAZARDOUS, TOXIC OR RADIOACTIVE WASTE  
PHASE I ASSESSMENTS**

**HTRW 23-11**

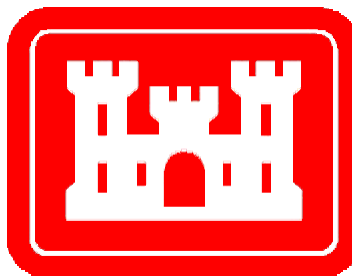
**PHASE I  
ENVIRONMENTAL SITE ASSESSMENT**

**FOR**

**MORGANZA TO THE GULF  
PREFERRED ALIGNMENT  
SURVEYS AND BORINGS  
TERREBONNE AND LAFOURCHE PARISHES, LOUISIANA**

**November 20, 2023**

Prepared by  
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## **Executive Summary**

The purpose of the proposed action is to conduct surveys and collect soil borings along an approximately ninety-three-mile-long path where a levee would be constructed for flood protection in Terrebonne and Lafourche Parishes, Louisiana. The preferred alignment is separated into individual reaches with the reaches located in the vicinity of the towns of Gibson, Theriot, Dulac, Cocodrie, Chauvin, Cutoff, Larose, and Lockport, Louisiana.

Due to the remoteness of the several locations in the project area, site visits were not conducted for each reach of the surveys and borings alignment area; however, an aerial flight across the entire Surveys & Borings alignment was conducted by CEMVN personnel on May 4, 2023. The aerial flight revealed the presence of oil refining/storage facilities in the vicinity of the Surveys & Borings alignment, as well as the presence of several pipeline corridors that appear to be crossing the alignment. A review of government environmental databases, historic aerial photographs, and historic topographical maps was also performed. Neither the aerial flight nor the database review revealed any evidence of Recognized Environmental Conditions (RECs) that would affect the proposed project.

The objective of the Phase I Environmental Site Assessment (ESA) is to identify, to the extent feasible pursuant to the process described herein, RECs in connection with a given property. This assessment did not reveal RECs in connection with the project site.

### **I. Introduction**

#### **1.1 Purpose**

The USACE regulations (ER-1165-2-132) and District policy require procedures be established to facilitate early identification and appropriate consideration of potential hazardous, toxic, or radioactive waste (HTRW) in reconnaissance, feasibility, preconstruction engineering and design, land acquisition, construction, operations and maintenance, repairs, replacement, and rehabilitation phases of water resources studies or projects by conducting a Phase I ESA. These assessments follow the process/standard practices for conducting Phase I ESAs published by the American Society for Testing and Materials (ASTM).

This assessment was prepared using the following ASTM Standard:  
E 1527-13: Standard Practice for Environmental Site Assessments – Phase I  
Environmental Site Assessment Process.

The purpose of a Phase I ESA is to identify, to the extent feasible, in the absence of sampling and analysis, the likelihood for the presence of contaminants (i.e., RECs) within the scope of the United States Environmental Protection Agency's (USEPA's) Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and petroleum products.

The scope of this Phase I ESA consists of the following components:

- a. Records review
- b. Site Reconnaissance
- c. Report.

## **II. Project/Site Description**

### **2.1 Location Description**

The proposed project area is located in mostly marshland with some portions located in populated areas of Terrebonne and Lafourche parishes. The surveys and borings alignment begins near Gibson, Louisiana, and continues to the southeast toward the Mandalay National Wildlife Refuge (managed by the United States Fish and Wildlife Service), then toward Theriot, Louisiana, to Dulac, Louisiana, then toward Cocodrie, Louisiana. The alignment then turns to the northeast toward Chauvin, Louisiana, then toward Cutoff, Louisiana, then toward Larose, Louisiana, and finally ends near Lockport, Louisiana. the southwest of Houma.

### **2.2 Site/Vicinity Characteristics**

The site vicinity includes the undeveloped marshland along most of the Surveys & Borings alignment. Several communities, namely Gibson, Theriot, Dulac, Cocodrie, Chauvin, Montegut, Cutoff, Larose, and Lockport, Louisiana, are in the vicinity or within the footprint of the project site. The Mandalay National Wildlife Refuge is located between Gibson and Theriot near the northeast portion of the alignment.

## **III. User Provided Information**

A records search revealed no reported HTRW issues. Aerial photographs depicting the site were provided by Google Earth Pro. Historic topographic maps were provided by the United States Geological Society.

## **IV. Records Review**

For the purpose of this ESA, the following standard records sources were obtained and reviewed to assist in the identification of RECs in connection with this proposed project site and adjacent areas:

- Environmental Sources (Federal, State and Local, Tribal, and Proprietary)
- Historical Use (topographic maps and aerial photographs)

## **4.1 Environmental Sources**

Publicly available environmental records were obtained and reviewed from available resources on the internet or in correspondence with the managing institution. Not all databases are publicly available with the most recent data that can be referenced as meeting the ASTM 1527-13 standard, and unavailable information must be considered as a data gap.

### **4.1.1 Federal Records**

The following information sources (databases) were searched as a part of the federal agency review process:

- a. USEPA National Priorities List (NPL database – current and deleted sites);
- b. USEPA Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS);
- c. USEPA Superfund Enterprise Management System Archive (SEMS-ARCHIVE);
- d. USEPA Emergency Response Notification System (ERNS);
- e. USEPA Corrective Action Report (CORRACTS);
- f. USEPA Biennial Reporting System (BRS);
- g. USEPA Superfund (CERCLA) Consent Decrees (CONSENT);
- h. USEPA Facility Index System/Facility Identification Initiative Program Summary Report (FINDS);
- i. United States Department of Transportation (USDOT) Hazardous Materials Information Reporting System (HMIRS);
- j. United States Nuclear Regulatory Commission (USNRC) Material Licensing Tracking System (MLTS);
- k. USEPA Federal Superfund Liens (NPL LIENS);
- l. USEPA PCB Activity Database System (PADS);
- m. USEPA Land Use Controls (LUCs)
- n. USEPA RECRA Administrative Action Tracking System (RAATS);
- o. USEPA Toxic Chemical Release Inventory System (TRIS); and

- p. USEPA Toxic Substances Control Act (TSCA).

A search of available environmental records was conducted by CEMVN. These records assist in meeting the requirements of USEPA's Standards and Practices for All Appropriate Inquiry (40 CFR Part 312), and the ASTM Standard Practice for Environmental Site Assessments: ASTM 1527-13 Phase I Environmental Site Assessment Process. For properties that contained inadequate address information for mapping purposes, reasonable efforts were made to identify the approximate location of the sites in relation to the target properties as part of the review process. In addition, the physical setting of the target properties was assessed by reviewing topographic maps, to identify conditions in which hazardous substances or petroleum products could migrate.

#### **4.1.2 State and Local Records**

The following information sources were searched as a part of the state and local agency review process:

- a. Solid and Hazardous Waste Sites (SHWS);
- b. Solid Waste Facilities/Landfill Sites (SWF/LF);
- c. LDEQ Approved Debris Sites (DEBRIS);
- d. Leaking Underground Storage Tanks (LUST);
- e. Leaking Underground Storage Tanks on Indian Land (INDIAN LUST);
- f. Historic Leaking Underground Storage Tanks (HIST LUST);
- g. Underground Storage Tank Listing (FEMA UST);
- h. Louisiana Underground Storage Tank Database (UST);
- i. Underground Storage Tanks on Indian Land (INDIAN UST);
- j. Conveyance Notice Listing (AUL);
- k. Environmental Liens (LIENS);
- l. Spills and Releases (SPILLS);
- m. Voluntary Remediation Program Sites (VCP);
- n. Voluntary Cleanup Priority Listing (INDIAN VCP);

- o. Dry Cleaner Facility Listing (DRYCLEANERS); and
- p. Louisiana Pollutant Discharge Elimination System (LPDES) Permits Database.

#### **4.1.3 Results**

##### Reach BA

No RECS were identified in the regulatory database within a one-mile radius of Reach BA. Several oil & gas pipelines were identified crossing the proposed project site. Several plugged & abandoned and dry & plugged oil/gas wells were identified within ¼ to 1 mile of the proposed project site. Several active and closed underground storage tank (UST) sites were identified within one mile of the project site. Fifty-eight Louisiana pollutant Discharge Elimination System (LPDES) sites were identified within one mile of the project site.

##### Reach A

No RECs were identified in the regulatory database within a one-mile radius of Reach A. Few oil and gas pipelines were identified crossing the proposed project site. Several plugged & abandoned and dry & plugged oil/gas wells were identified within ¼ to 1 mile of the proposed project site. Few closed UST sites were identified within 1 mile of the project site. Eight LPDES sites were identified within one mile of the project site.

##### Reach B

No RECs were identified in the regulatory database within a one-mile radius of Reach B. One gas pipeline was identified crossing the proposed project site and one gas pipeline was identified within one mile of the project site. Few plugged & abandoned and dry & plugged oil/gas wells were identified within one mile of the project site. Four active UST sites and four LPDES sites were identified within one mile of the project site.

##### Reach E

No RECs were identified in the regulatory database within a one-mile radius of Reach E. Few oil and gas pipelines were identified crossing the proposed project site. Several plugged & abandoned and dry & plugged oil/gas wells were identified within one mile of the project site. Two closed UST sites and eight LPDES sites were identified within one mile of the project site.

##### Reach F

Two gas pipelines identified within one mile of the proposed project site. Several plugged & abandoned and dry & plugged oil/gas wells were identified within one mile of the project site. One toxic release inventory (TRI) site, and twenty-five LPDES sites were identified within one mile of the proposed project site. No USTs were identified within one mile of the proposed project site.

#### Reach G

No RECs were identified in the regulatory database within a one-mile radius of Reach G. No pipelines identified. Few plugged & abandoned and dry & plugged oil/gas wells were identified within one mile of the proposed project site. No TRI sites, LPDES sites, or UST sites were identified within one mile of the proposed project site.

#### Reach H

NO RECs were identified in the regulatory database within a one-mile radius of Reach H. Few oil and gas pipelines identified crossing the proposed project site. Several active producing oil/gas wells, active injection wells, shut-in productive wells for future utility, plugged & abandoned oil/gas wells, and dry & plugged oil/gas wells identified within one mile of the proposed project site. No TRI sites, four closed UST sites, and eleven LPDES sites were identified within one mile of the proposed project site.

#### Reach I

No RECs were identified in the regulatory database within a one-mile radius of Reach I. Few oil and gas pipelines identified either crossing or within one mile of the proposed project site. Several plugged & abandoned and dry & plugged oil/gas wells were identified within one mile of the proposed project site. No TRI sites, seven LPDES sites, and two closed UST sites were identified within one mile of the proposed project site.

#### Reach J

No RECs were identified in the regulatory database within a one-mile radius of Reach J. Several oil & gas pipelines were identified crossing the proposed project site. Several plugged & abandoned and dry & plugged oil/gas wells were identified within one mile of the proposed project site. No TRI sites, one LPDES site, and no UST sites were identified within one mile of the proposed project site.

#### Reach K

No RECs were identified in the regulatory database within a one-mile radius of Reach K. Few oil & gas pipelines were identified within one mile of the proposed project site. Several plugged & abandoned and dry & plugged oil/gas wells were identified within one mile of the proposed project site. No TRI sites, five LPDES sites, and no UST sites were identified within one mile of the proposed project site.

#### Reach L

No RECs were identified in the regulatory database within a one-mile radius of Reach L. Few oil & gas pipelines were identified within one mile of the proposed project site. Few plugged & abandoned and dry & plugged oil/gas wells were identified within one mile of the proposed project site. No TRI sites, no LPDES sites, and no UST sites were identified within one mile of the proposed project site.

#### Reach Larose to Golden Meadow overlap (L2GM)

No RECs were identified in the regulatory database within a one-mile radius of Reach

L2GM. Several oil & gas pipelines were identified crossing the proposed project site. Several plugged & abandoned and dry & plugged oil/gas wells were identified within one mile of the proposed project site. Four TRI sites, nine active UST sites, thirty-two closed UST sites, and 148 LPDES sites were identified within one mile of the proposed project site.

#### Reach Larose to Lockport – A (L2L-A)

No RECs were identified in the regulatory database within a one-mile radius of Reach L2L-A. Several oil and gas pipelines were identified crossing the proposed project site. Several plugged & abandoned and dry & plugged oil/gas wells and one active injection well were identified within one mile of the proposed project site. No TRI sites, no UST sites, and three LPDES sites were identified within one mile of the proposed project site.

#### Reach Larose to Lockport – B (L2L-B)

No RECs were identified in the regulatory database within a one-mile radius of Reach L2L-B. Several oil and gas pipelines were identified crossing the proposed project site. Several plugged & abandoned and dry & plugged oil/gas wells were identified within one mile of the proposed project site. One TRI site, eight active UST sites, fifty-nine closed UST sites, and thirty-seven LPDES sites were identified within one mile of the proposed project site.

The pipelines and wells are potential RECs and should be avoided if encountered during construction of the project.

Several water wells were also listed within one mile of the project site. They are not considered to be RECs and, therefore, would not affect the proposed project.

## **4.2 Historical Use Information**

The following historic information sources were obtained and reviewed:

Historical aerial photographs from 1985 to 2023 were reviewed and historical topographic maps from 1892 to 1998 were also reviewed as part of this investigation.

### **4.2.1 Aerial Photograph Review**

#### **Reach BA Aerial Photographs**

##### *1985 Aerial Photograph*

The project site is mostly rural and agricultural land. The project site somewhat parallels LA Hwy 182 and Bayou Black. Several structures appear to be present along LA Hwy. 182. Several oil/gas well canals are within one mile of the alignment.

##### *1998 Aerial Photograph*

No significant changes appear to have occurred since the 1985 photograph.

2007 Aerial Photograph

No significant changes appear to have occurred since the 1998 photograph.

2015 Aerial Photograph

No significant changes appear to have occurred since the 2007 photograph.

2023 Aerial Photograph

No significant changes appear to have occurred since the 2015 photograph.

**Reach BA and Mandalay Wildlife Area Aerial Photographs**

1985 Aerial Photograph

The project site is mostly rural and agricultural land. The project site somewhat parallels LA Hwy 182 and Bayou Black. Several structures appear to be present along LA Hwy. 182. Several oil/gas well canals are within one mile of the alignment. The city of Houma, Louisiana, is east of the project site.

1998 Aerial Photograph

No significant changes appear to have occurred since the 1985 photograph.

2007 Aerial Photograph

No significant changes appear to have occurred since the 1998 photograph.

2017 Aerial Photograph

No significant changes appear to have occurred since the 2007 photograph.

2023 Aerial Photograph

No significant changes appear to have occurred since the 2017 photograph.

**Reach A Aerial Photographs**

1985 Aerial Photograph

The project site is mostly undeveloped marsh land. LA Hwy. 315 is to the east of the project, and the Gulf Intracoastal Water Way (GIWW) crosses the northern portion of the Reach A alignment. The Mandalay National Wildlife Refuge is at the northern portion of the alignment. Several oil/gas well canals are within one mile of the alignment.

1998 Aerial Photograph

No significant changes appear to have occurred since the 1989 photograph.

2007 Aerial Photograph

No significant changes appear to have occurred since the 2004 photograph.

2010 Aerial Photograph

No significant changes appear to have occurred since the 2007 photograph.

2017 Aerial Photograph

No significant changes appear to have occurred since the 2014 photograph.



2020 Aerial Photograph

No significant changes appear to have occurred since the 2017 photograph.

2022 Aerial Photograph

No significant changes appear to have occurred since the 2020 photograph.

**Reaches B and E (Theriot and Dulac)**

1985 Aerial Photograph

The project site is mostly undeveloped marsh land. Bayou Dularge and LA Hwy. 315 are to the east of the project site. Several structures and agricultural land are along Bayou Dularge and LA Hwy. 315.

1998 Aerial Photograph

No significant changes appear to have occurred since the 1985 photograph\.

2007 Aerial Photograph

No significant changes appear to have occurred since the 1998 and 1999 photograph.

2015 Aerial Photograph

No significant changes appear to have occurred since the 2006 and 2007 photograph.

2023 Aerial Photograph

No significant changes appear to have occurred since the 2015 photograph.

**Reaches F, G, and H**

1985 Aerial Photograph

The project site is mostly undeveloped marsh land. The Houma Navigation Canal, LA Hwy 57, and LA Hwy 56 are adjacent to the project site. Several structures and businesses are located in the vicinity of the project site.

1998 Aerial Photograph

No significant changes appear to have occurred since the 1985 photograph.

2005 Aerial Photograph

No significant changes appear to have occurred since the 1998 photograph.

2015 Aerial Photograph

No significant changes appear to have occurred since the 2005 photograph.

2020 Aerial Photograph

No significant changes appear to have occurred since the 2015 photograph.

2023 Aerial Photograph

No significant changes appear to have occurred since the 2020 photograph.

**Reaches I and J**

1985 Aerial Photograph

The project site is mostly undeveloped marsh land. LA Hwy 55/Montegut Road is adjacent to

the project site. Several structures are located along LA Hwy 55.

1998 Aerial Photograph

No significant changes appear to have occurred since the 1985 photograph.

2015 Aerial Photograph

No significant changes appear to have occurred since the 1998 photograph.

2020 Aerial Photograph

No significant changes appear to have occurred since the 2015 photograph.

2023 Aerial Photograph

No significant changes appear to have occurred since the 2020 photograph.

**Reaches K and L**

1985 Aerial Photograph

The project site is mostly undeveloped marsh land. Few structures are located in the vicinity of the project site. The project site traverses the Pointe aux Chenes Wildlife Management Area.

1998 Aerial Photograph

No significant changes appear to have occurred since the 1985 photograph.

2005 Aerial Photograph

No significant changes appear to have occurred since the 1998 photograph.

2015 Aerial Photograph

No significant changes appear to have occurred since the 2005 photograph.

2020 Aerial Photograph

No significant changes appear to have occurred since the 2015 photograph.

2023 Aerial Photograph

No significant changes appear to have occurred since the 2020 photograph.

**Reaches L2GM and L2L-A**

1985 Aerial Photograph

The project site is a combination of undeveloped marsh land and several structures along LA Hwy 24, LA Hwy 1, and LA Hwy 308 in the Larose, Louisiana area.

1998 Aerial Photograph

No significant changes appear to have occurred since the 1985 photograph.

2005 Aerial Photograph

No significant changes appear to have occurred since the 1998 photograph.

2015 Aerial Photograph

No significant changes appear to have occurred since the 2005 photograph.

2020 Aerial Photograph

No significant changes appear to have occurred since the 2015 photograph.

2023 Aerial Photograph

No significant changes appear to have occurred since the 2020 photograph.

**Reach L2L-B**

1985 Aerial Photograph

The project site is mostly undeveloped marsh land and agricultural land. Several structures are located in the Lockport, Louisiana, area along Bayou Lafourche, LA Hwy 1, and LA Hwy 308.

1998 Aerial Photograph

No significant changes appear to have occurred since the 1985 photograph.

2005 Aerial Photograph

No significant changes appear to have occurred since the 1998 photograph.

2015 Aerial Photograph

No significant changes appear to have occurred since the 2005 photograph.

2020 Aerial Photograph

No significant changes appear to have occurred since the 2015 photograph.

2023 Aerial Photograph

No significant changes appear to have occurred since the 2020 photograph.

#### **4.2.2 Topographic Map Review**

**Reach BA Gibson and Humphreys Areas**

1939 Topographic Map

The project site is slightly developed. Bayou Black is north of the project site. The Gulf Intracoastal Water Way is south of the project site.

1944 Topographic Map

No significant changes appear to have occurred since the 1939 topographic map.

1964 Topographic Maps

Several oil/gas well structures and canals appear to have been constructed south of the project site. No other significant changes appear to have occurred since the 1944 topographic map.

#### 1980 Topographic Maps

No significant changes appear to have occurred since the 1964 topographic maps.

#### 1998 Topographic Maps

No significant changes appear to have occurred since the 1980 topographic maps. The Mandalay National Wildlife Refuge has been created.

### **Reach A Vicinity Topographic Areas**

#### 1894 Topographic Map

The project area is undeveloped land and marsh.

#### 1935 Topographic Map

An Indian Mound is located along the Marmande Ridge west of Bayou Du Large. The Marmande Canal has been constructed west of the project site. The project area is slightly developed. No other significant changes noted.

#### 1940 Topographic Map

No significant changes appear to have occurred since the 1935 map.

#### 1944 Topographic Map

No significant changes appear to have occurred since the 1940 map.

#### 1964 Topographic Map

The South Sunrise Oil and Gas Field appears to be located immediately to the east of the project area near the Indian Mound location. Additional structures appear to have been constructed east of the project area.

#### 1980 Topographic Map

A pumping station appears to have been constructed near the intersection of Thibodaux Canal and Falgout Canal. No other significant changes appear to have occurred since the 1964 map.

#### 1994 Topographic Map

No significant changes appear to have occurred since the 1980 map.

### **Reaches B and E Vicinity Topographic Maps**

#### 1894 Topographic Map

The project area is undeveloped land and marsh.

#### 1941 Topographic Map

Some development appears to have occurred in the project vicinity. LA Hwy. 141 has been constructed to the east of the project site.

#### 1964 Topographic Map

Several structures appear to have been constructed along Bayou du Large and Bayou Grand Caillou. The Houma Navigation Canal has been constructed east of the project site. Oil field

development has been established in the immediate area of the project site.

1980 Topographic Map

No significant changes appear to have occurred since the 1964 map.

1994 Topographic Map

No significant changes appear to have occurred since the 1980 map.

**Reaches F, G, and H Vicinity Topographic Maps**

1894 Topographic Map

The project area is undeveloped land and marsh.

1935 Topographic Map

State Hwy. 79 has been constructed along Bayou Petit Caillou. Some structures appear to have been constructed along State Hwy. 79.

1944 Topographic Map

No significant changes appear to have occurred since the 1935 map.

1964 Topographic Map

Several additional structures appear to have been constructed along State Hwy. 79. The Houma Navigation Canal has been constructed east of the project site. Oil field development has been established in the immediate area of the project site.

1980 Topographic Map

No significant changes appear to have occurred since the 1964 map.

1994 Topographic Map

No significant changes appear to have occurred since the 1980 map.

**Reaches H and I Vicinity Maps**

1894 Topographic Map

The project area is undeveloped land and marsh.

1941 Topographic Map

LA Hwy. 69 is under construction along Bayou Terrebonne. Some structures appear to have been constructed along Bayou Terrebonne.

1944 Topographic Map

No significant changes appear to have occurred since the 1941 map.

1964 Topographic Map

Several structures appear to have been constructed in the project site vicinity. An Indian Mound is located just north of the Robinson Canal. Oil field development has been established in the immediate area of the project site.

1980 Topographic Map

No significant changes appear to have occurred since the 1964 map.

1994 Topographic Map

No significant changes appear to have occurred since the 1980 map.

**Reach J Vicinity Maps**

1894 Topographic Map

The project area is undeveloped land and marsh.

1935 Topographic Maps

Several structures appear to have been constructed along LA Hwy 968 and Bayou Pointe au Chien. No other significant changes appear to have occurred since the 1894 map.

1941 Topographic Maps

The Humble Canal has been constructed just north of Point Barre. No other significant changes appear to have occurred since the 1935 maps.

1963 & 1964 Topographic Maps

Several additional structures have been constructed along LA Hwy 968 and Bayou Pointe au Chien. Oil field development has been established in the immediate area of the project site.

1979 & 1980 Topographic Maps

No significant changes appear to have occurred since the 1963 & 1964 maps.

1994 Topographic Maps

The Point au Chien State Wildlife Management Area has been created to the northeast of the Humble Canal and Bayou Lafourche areas. Some structures appear to have been constructed along a portion of the Humble Canal and along LA Hwy. 55. No other significant changes appear to have occurred since the 1979 & 1980 maps.

**Reach K Vicinity Maps**

1894 Topographic Map

The project area is undeveloped land and marsh.

1935 Topographic Map

The project area remains undeveloped land and marsh.

1941 Topographic Map

The project area remains undeveloped land and marsh.

1944 Topographic Map

The project area remains undeveloped land and marsh.

1964 Topographic Map

Oil field development has been established in the immediate area of the project site.

1979 Topographic Map

No significant changes have occurred since the 1964 map.

1994 Topographic Map

The Point au Chien State Wildlife Management Area has been created in the immediate vicinity of the project site.

**Reach L Vicinity Maps**

1892 Topographic Map

The project area is undeveloped land and marsh.

1939 Topographic Map

Several structures appear to have been constructed along LA Hwy.1 and LA Hwy. 308 along Bayou Lafourche. No other significant changes appear to have occurred since the 1892 map.

1941 Topographic Map

No significant changes appear to have occurred since the 1939 map.

1963 Topographic Map

Oil field development has been established in the immediate area of the project site. No other significant changes appear to have occurred since the 1941 map.

1979 Topographic Map

No significant changes appear to have occurred since the 1963 map.

1998 Topographic Map

No significant changes appear to have occurred since the 1979 map.

**Reach Larose to Golden Meadow Overlap**

1892 Topographic Map

The project area is undeveloped land and marsh.

1941 Topographic Map

Several structures appear to have been constructed along Hwy. 77 and Hwy. 78 along Bayou Lafourche. No other significant changes appear to have occurred since the 1892 map.

1963 Topographic Map

The Gulf Intracoastal Water Way has been constructed. Several additional structures appear to have been constructed in the vicinity of Larose, Louisiana. Oil field development appears to have started in the vicinity of the project area.

1979 Topographic Map

No significant changes appear to have occurred since the 1963 map.

1998 Topographic Map

No significant changes appear to have occurred since the 1979 map.

## **Reach Larose to Lockport – A**

### **1892 Topographic Map**

The project area is undeveloped land and marsh.

### **1939 Topographic Map**

Several structures appear to have been constructed along LA Hwy.1 and LA Hwy. 308 along Bayou Lafourche. No other significant changes appear to have occurred since the 1892 map.

### **1963 Topographic Maps**

The Gulf Intracoastal Water Way has been constructed. Several additional structures appear to have been constructed in the vicinity of Larose, Louisiana. Oil field development appears to have started in the vicinity of the project area.

### **1979 Topographic Map**

No significant changes appear to have occurred since the 1963 map.

### **1998 Topographic Map**

No significant changes appear to have occurred since the 1979 map.

## **Reach Larose to Lockport – B**

### **1892 Topographic Map**

The project area is undeveloped land and marsh.

### **1932 Topographic Map**

Several structures appear to have been constructed in the Lockport area. No other significant changes appear to have occurred since the 1892 map.

### **1939 Topographic Map**

Several structures appear to have been constructed along LA Hwy.1 and LA Hwy. 308 along Bayou Lafourche. No other significant changes appear to have occurred since the 1892 and 1932 maps.

### **1963 Topographic Maps**

The Gulf Intracoastal Water Way has been constructed. Several additional structures appear to have been constructed in the vicinity of Larose and Lockport, Louisiana. Oil field development appears to have started in the vicinity of the project area.

### **1979 & 1980 Topographic Maps**

No significant changes appear to have occurred since the 1963 and 1974 maps.

### **1998 Topographic Maps**

No significant changes appear to have occurred since the 1979 and 1980 maps.



#### **4.2.3 City Directory Search**

No City Directories were reviewed but given the distance and remoteness of this project there are few residential developments within the immediate project area.

#### **4.2.4 Sanborn Maps Search**

No Sanborn maps were reviewed for the project site.

### **V. Site Reconnaissance**

Due to the remoteness of the project area, MVN personnel conducted an aerial site visit for the surveys and borings alignment area on May 4, 2023.

### **VI. Interviews**

No interviews were conducted.

### **VII. Findings**

This assessment did not reveal RECs in connection with the project site.

### **VIII. Opinion**

A Phase I ESA was conducted in conformance with the scope and limitations of ASTM Practice E 1527-13 for the Morganza to the Gulf, Surveys and Borings project area. Based on the environmental records review, there is a low probability of encountering HTRW during construction of the project.

### **IX. Conclusions**

A Phase I ESA was conducted in accordance with the scope and limitations of ASTM Practice E 1527-13 for the Morganza to the Gulf, Surveys and Borings project area. No further investigation at the site is necessary. If the proposed project site area changes significantly, the HTRW would need to be re-investigated under a new Phase I ESA.

### **X. Limitations**

USACE Environmental Planning Branch and Environmental Compliance Branch should be contacted with any known or suspected variations from the conditions described herein. If future development of the area indicates the presence of hazardous or toxic materials, USACE should be notified to perform a re-evaluation of the environmental conditions.

The scope of this assessment did not include any additional environmental investigation not outlined herein or analyses for the presence or absence of hazardous or toxic

materials in the soil, ground water, surface water, or air, in, on, under, or above the subject tract.

This Phase I ESA was performed in accordance with generally accepted practices of environmental professionals undertaking similar investigations at the same time and in the same geographical area, and USACE personnel observed the degree of care and skill generally exercised by environmental professionals under similar circumstances and conditions. The findings and conclusions stated herein must be considered not as scientific certainties, but rather as professional opinions concerning the significance of the limited data gathered during the course of the environmental site assessment. No other warranty, expressed or implied, is made.

Specifically, USACE does not and cannot state that the site contains no hazardous waste or material, petroleum products, or other latent conditions beyond those observed by USACE during the site assessment.

The observations described in this report were made under the conditions stated herein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services. Furthermore, such conclusions are based solely on site condition, and rules and regulations which were in effect at the time of the assessment.

In preparing this report, USACE relied on certain information provided by state and local officials and other parties referenced therein, and on information contained in the files of state and/or local agencies available to USACE at the time of the site assessment. Although there may have been some degree of overlap in the information provided by these various sources, no attempt was made to independently verify the accuracy or completeness of all information reviewed or received during the course of this site assessment.

Observations were made of the site, as indicated within the report. Where access to portions of the site was unavailable or limited, USACE renders no opinion as to the presence of indirect evidence relating to hazardous waste or petroleum products, in that portion of the site or structure.

Unless otherwise specified in the report, USACE did not perform testing or analyses to determine the presence or concentration of asbestos, radon, formaldehyde, lead-based paint, lead in drinking water, or electromagnetic fields at the site or in adjacent areas.

The purpose of this report was to assess the physical characteristics of the subject site with respect to the presence in the environment of hazardous, toxic, or radioactive waste or material, or petroleum products. No specific attempt was made to check on the compliance of present or past owners or operators of the site with federal, state, or local laws and regulations, environmental or otherwise.

## **XI. References**

*E 1527-13: Standard Practice for Environmental Site Assessments – Phase I Environmental Site Assessment Process. American Society for Testing and Materials, West Conshohocken, Pennsylvania.*

## **XII. Qualifications of the Environmental Professionals**

Joseph Musso  
Environmental Resource Specialist  
US Army Corps of Engineers  
New Orleans District  
New Orleans, LA

### **Work Experience:**

Mr. Musso has over 30 years of experience as an environmental specialist/manager in both the private and public sector. He has actively participated in projects related to toxic and hazardous waste site evaluation, hydrocarbon site assessments, air quality projects, surface water quality projects, Solid and Hazardous Waste management programs, and Pollution Prevention Plans over the course of his career. He is experienced in a wide range of environmental applications, including environmental management at the state and federal levels, compliance of facilities for industrial, domestic, and storm water regulations, and requirements for groundwater monitoring plans. He has also directed multi-disciplinary environmental projects for private industry and the public sector.

Mr. Musso has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject site and declares that, to the best of his professional knowledge and belief, he meets the definition of an Environmental Professional as defined under 40 CFR 312.

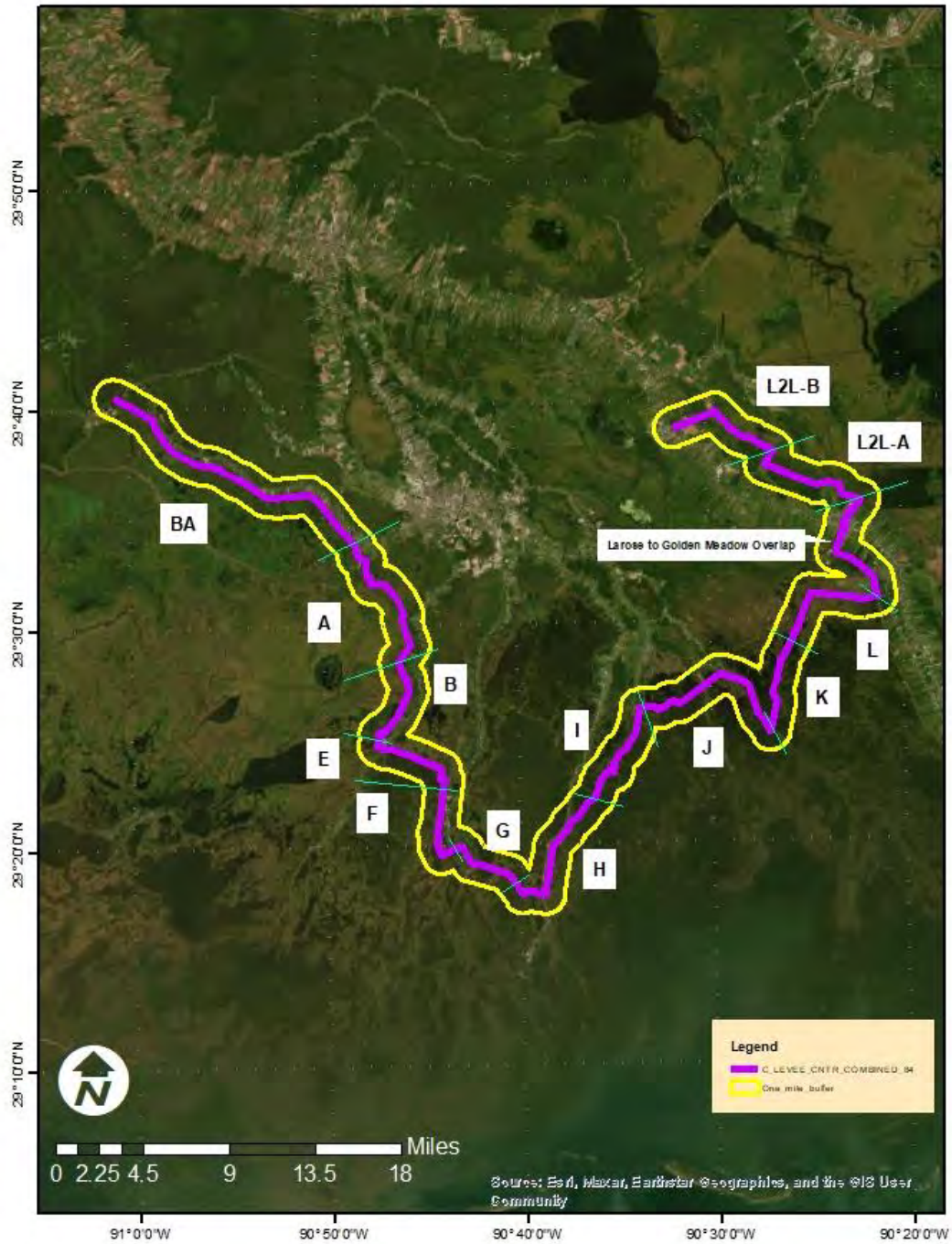
## **XIII. Appendices**

Appendix A – Site Maps  
Appendix B – Aerial Photographs  
Appendix C – Topographic Maps  
Appendix D – Site Visit Photographs  
Appendix E – Environmental Data

**APPENDIX A**

**MORGANZA TO THE GULF**  
**SURVEYS AND BORINGS ALIGNMENT**

**SITE MAPS**



**Figure 1. Morganza To the Gulf  
Surveys & Borings Map & Respective Reaches  
Terrebonne & Lafourche Parishes**



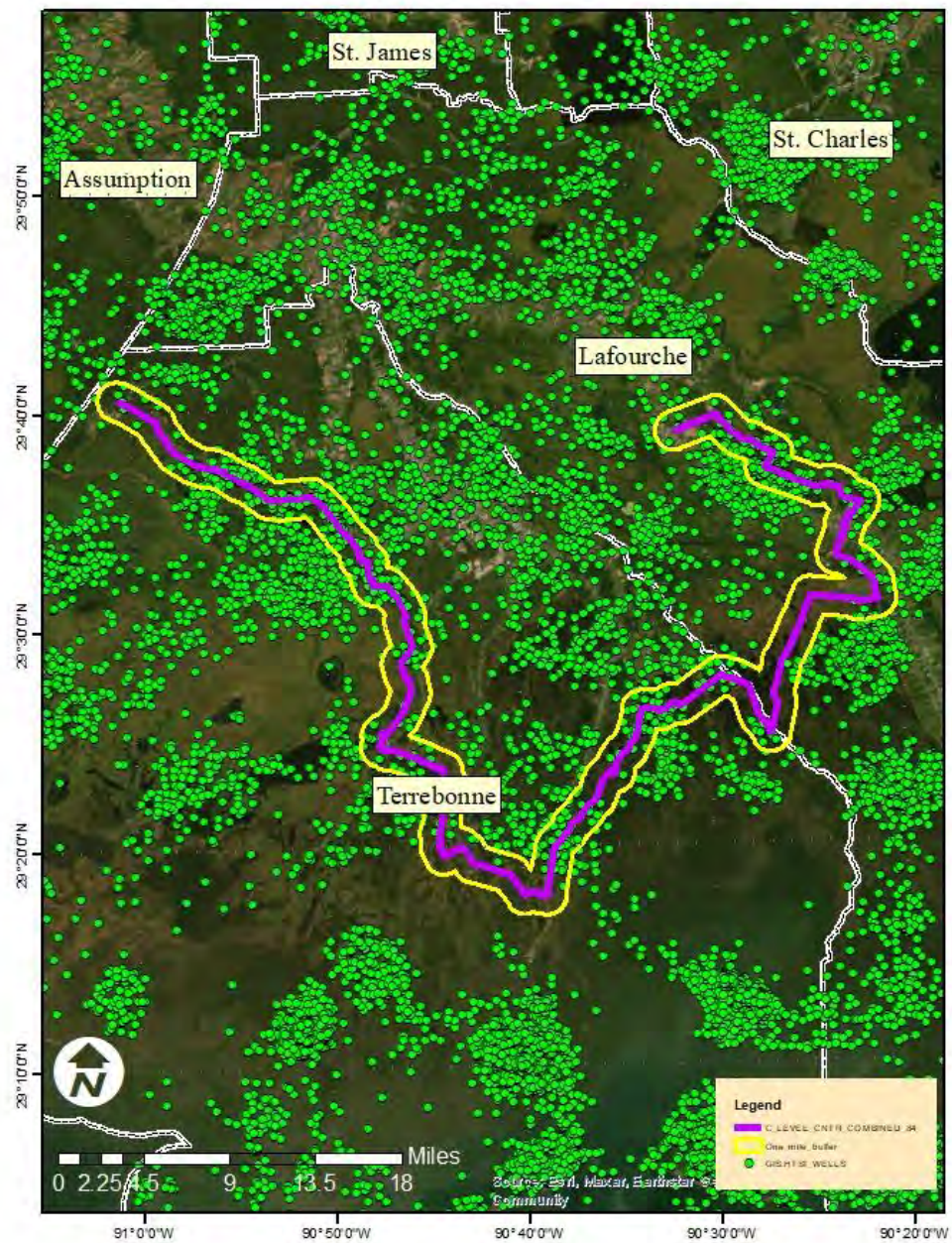
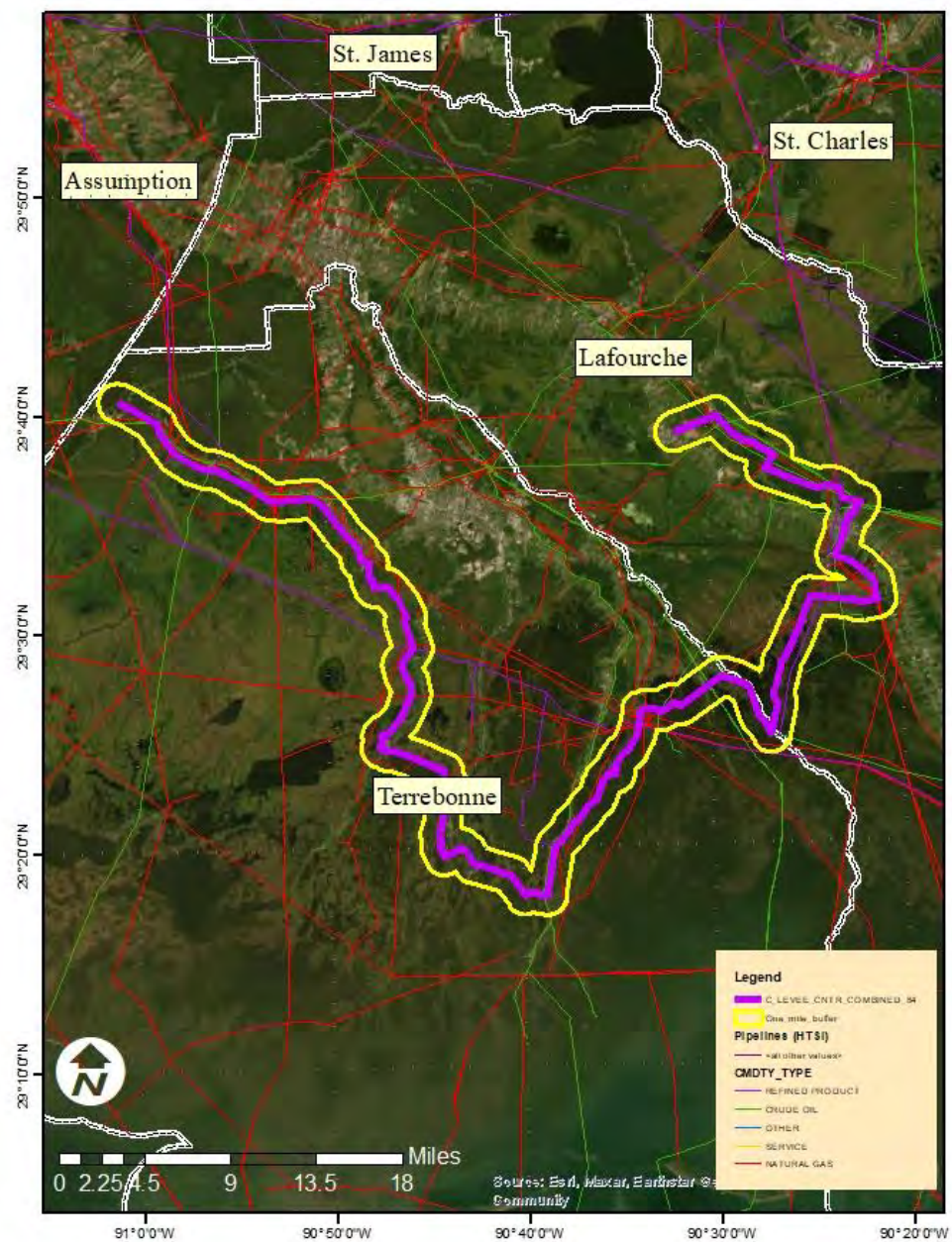


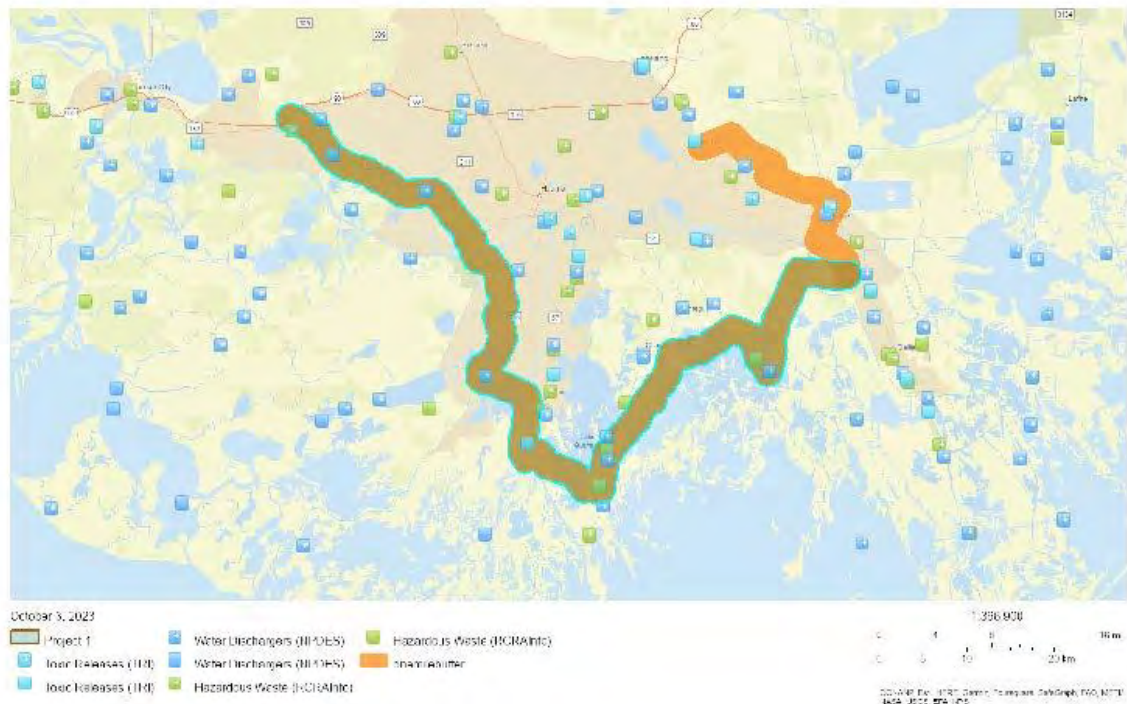
Figure 2. Morganza To the Gulf  
Surveys & Borings Map with Oil & Gas Wells  
Terrebonne & Lafourche Parishes



**Figure 3. Morganza To the Gulf  
Surveys & Borings Map with Pipelines  
Terrebonne & Lafourche Parishes**

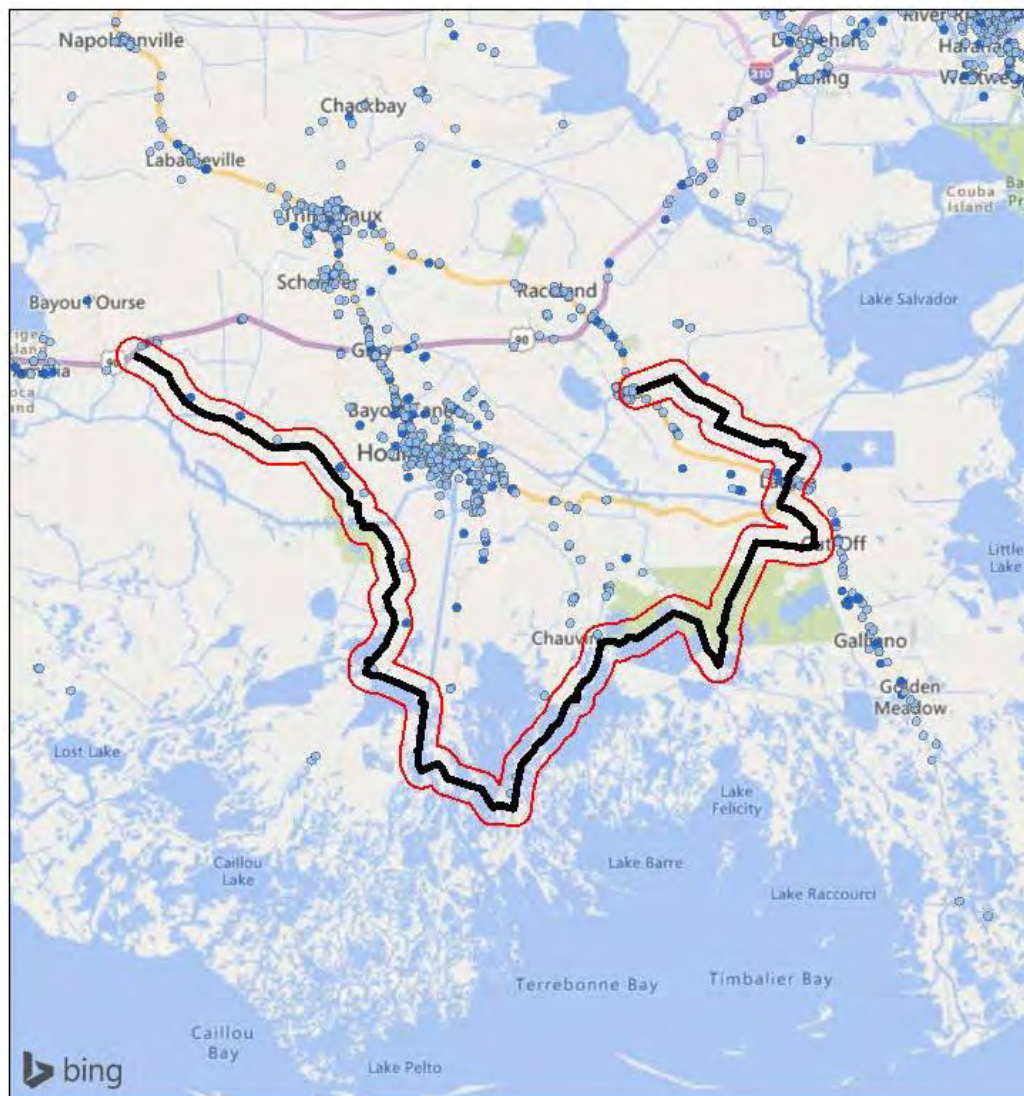


# NEPAssist Report



**Figure 4. NEPAssist diagram with locations of RCRA sites, TRI sites, and LPDES (water discharge) sites**





**Figure 5. UST locations along Surveys & Borings reach.**

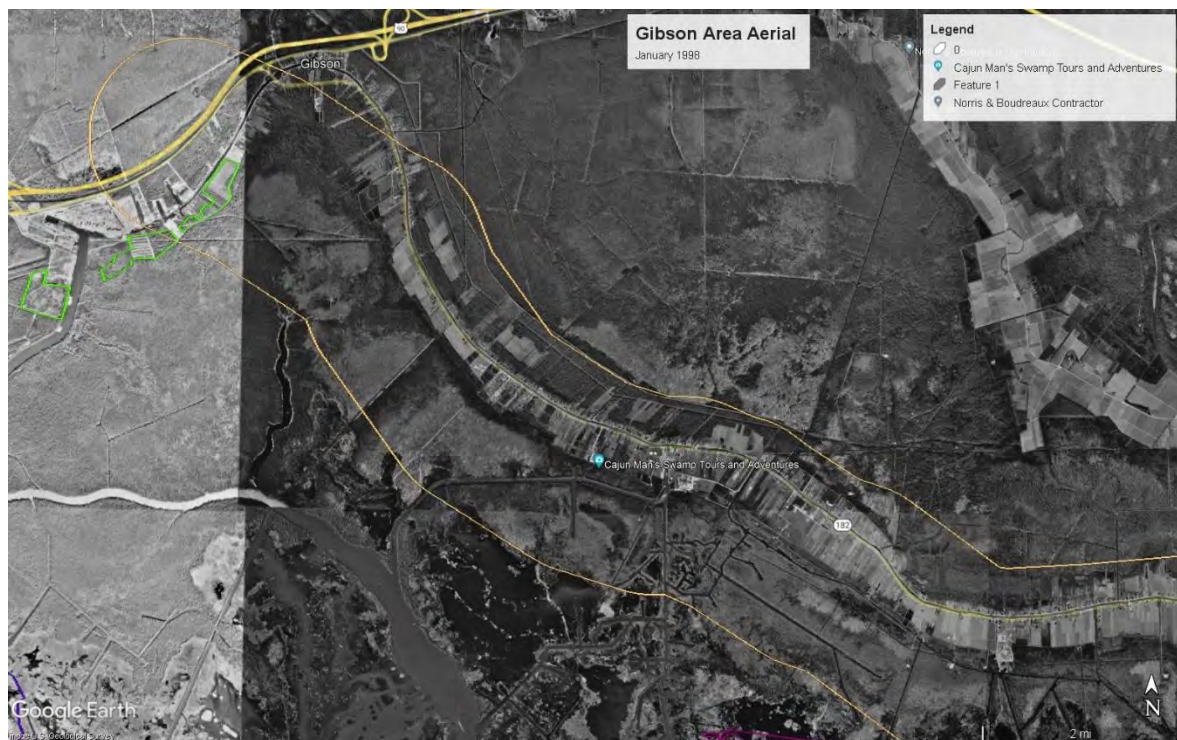
**APPENDIX B**

**MORGANZA TO THE GULF  
SURVEYS AND BORINGS ALIGNMENT**

**AERIAL PHOTOGRAPHS**



**1985 Reach BA Area Map**



**1998 Reach BA Area Map**





**2007 Reach BA Area Map**

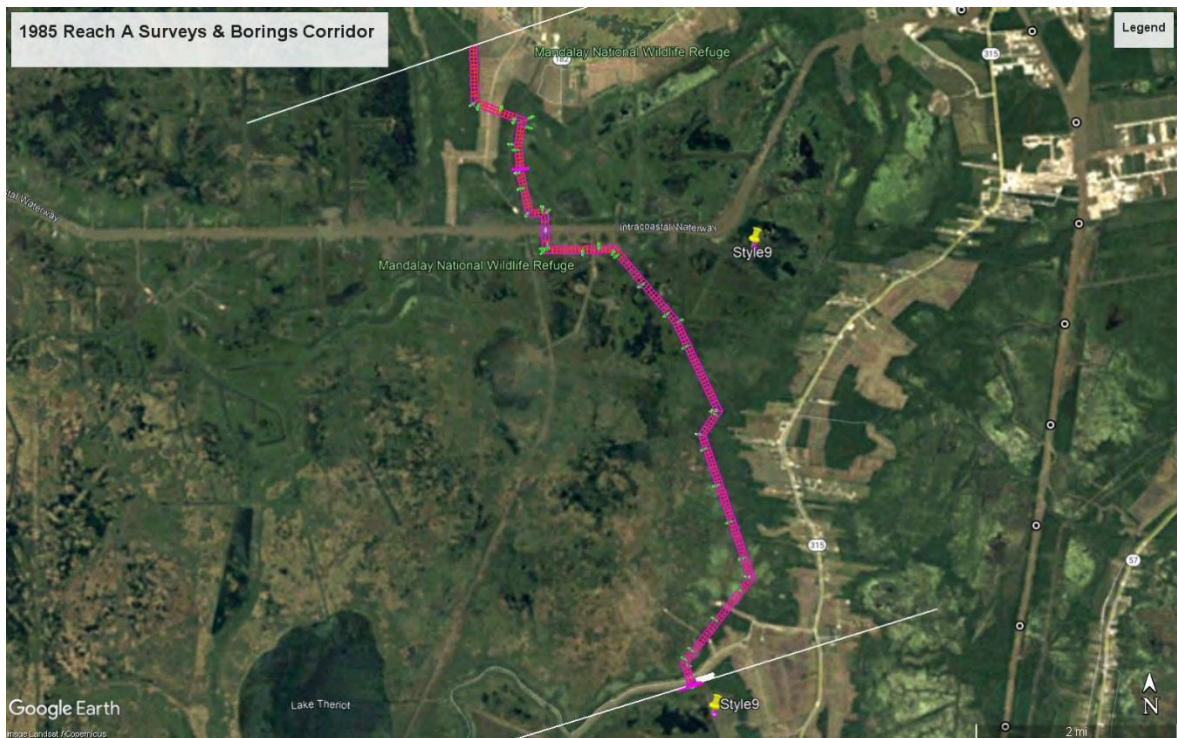


**2015 Reach BA Area Map**





**2023 Reach BA Area Map**

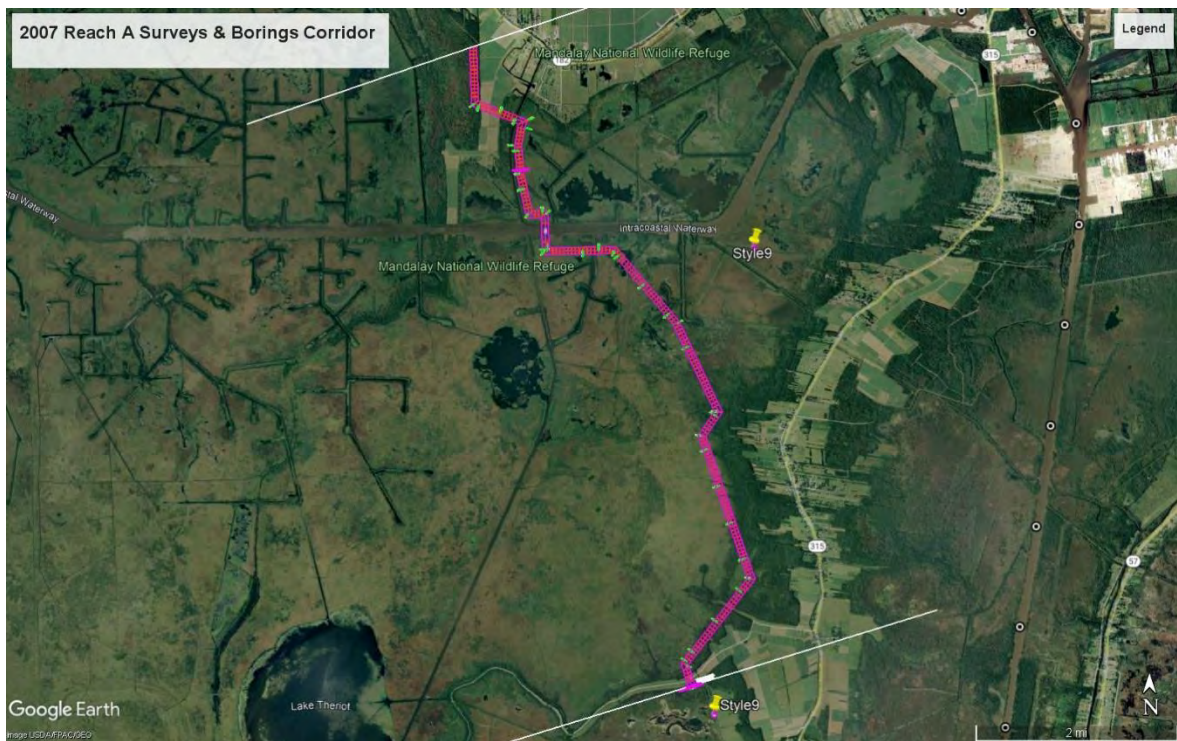


**1985 Reach A Area Map**



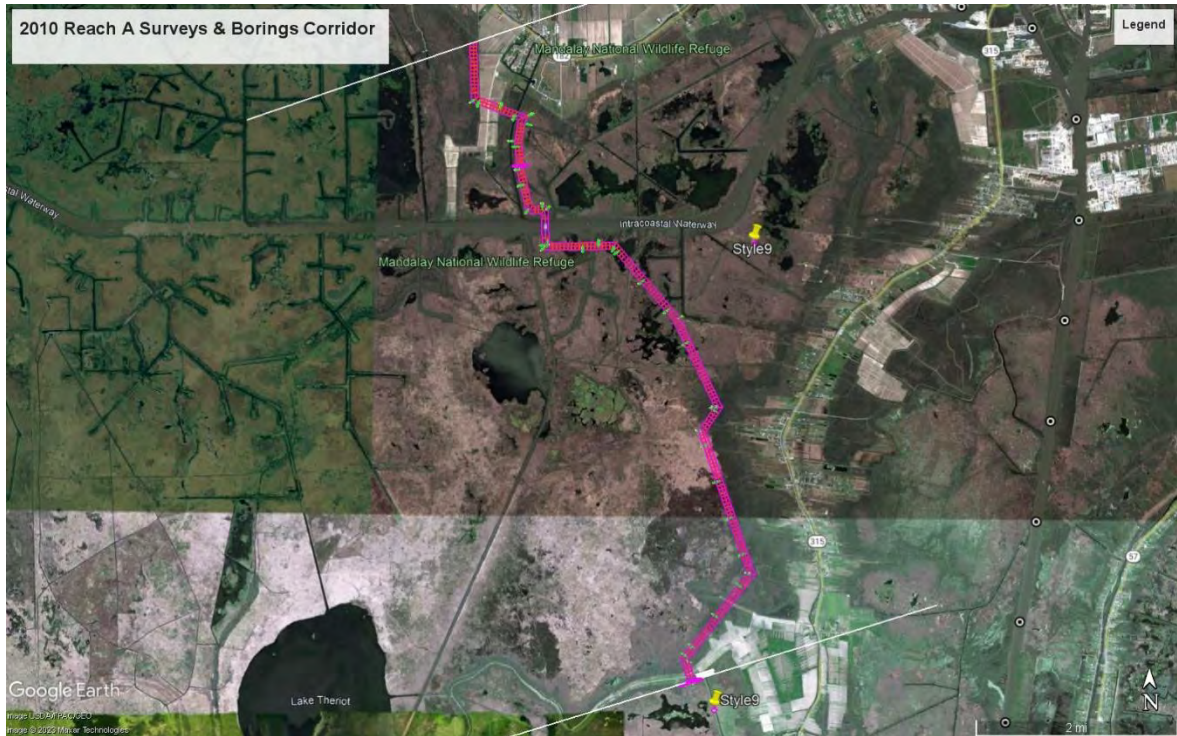


**1998 Reach A Area Map**

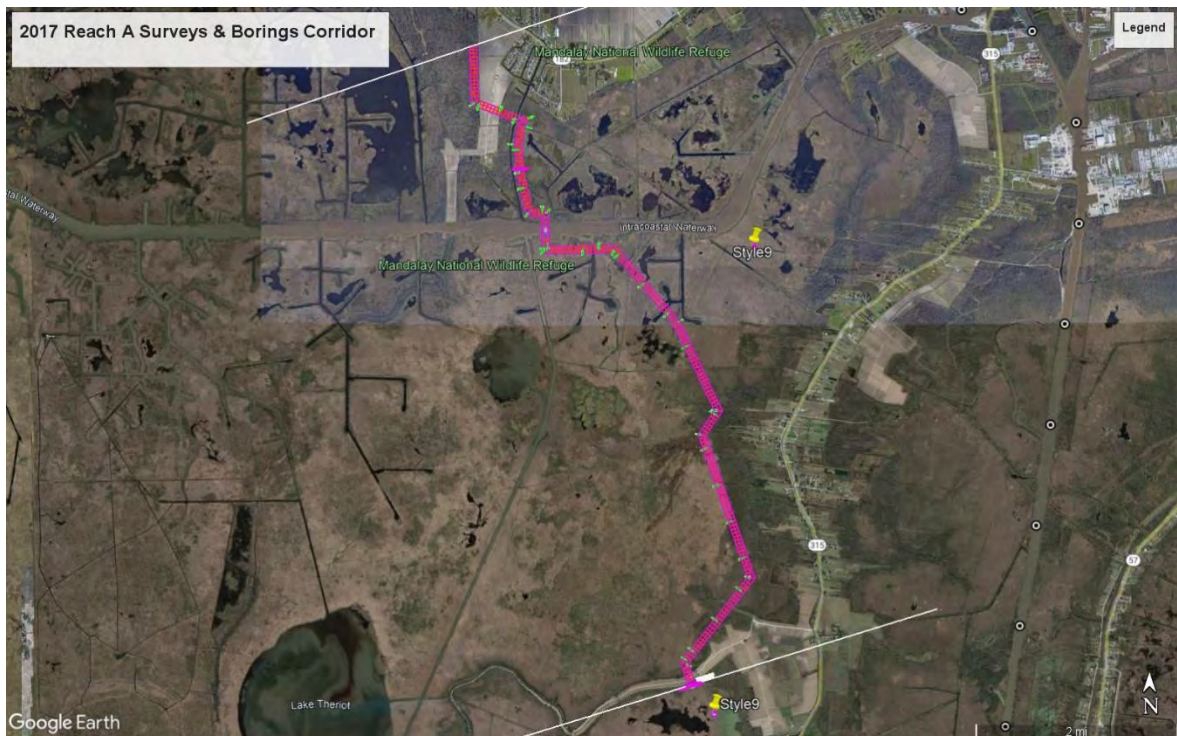


**2007 Reach A Area Map**



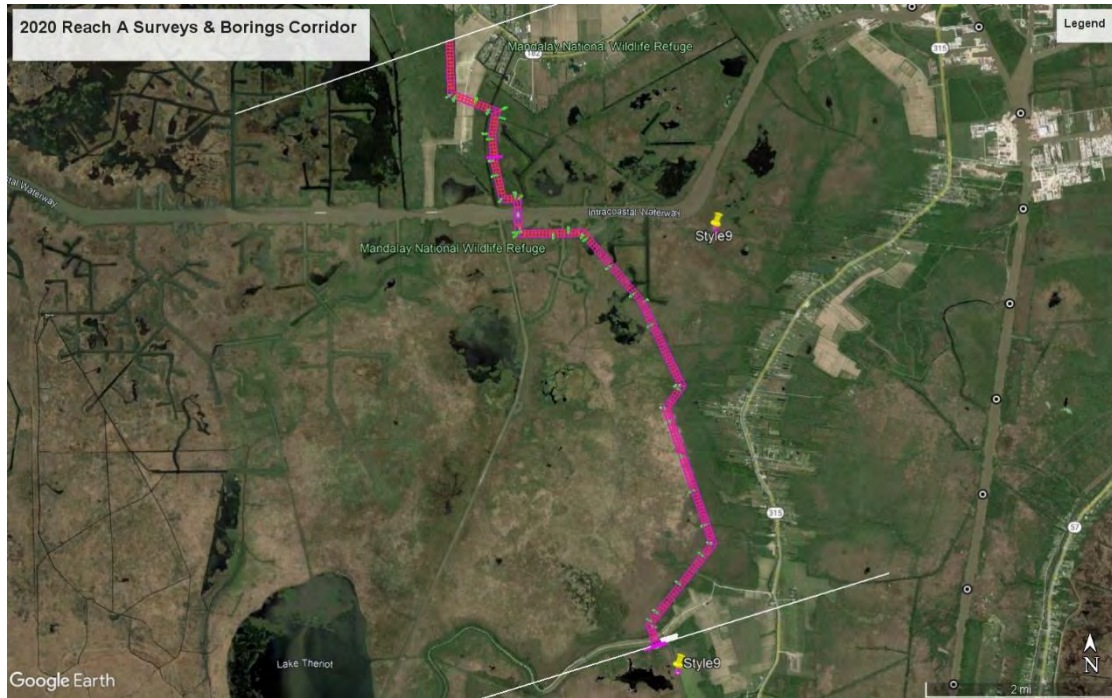


**2010 Reach A Area Map**

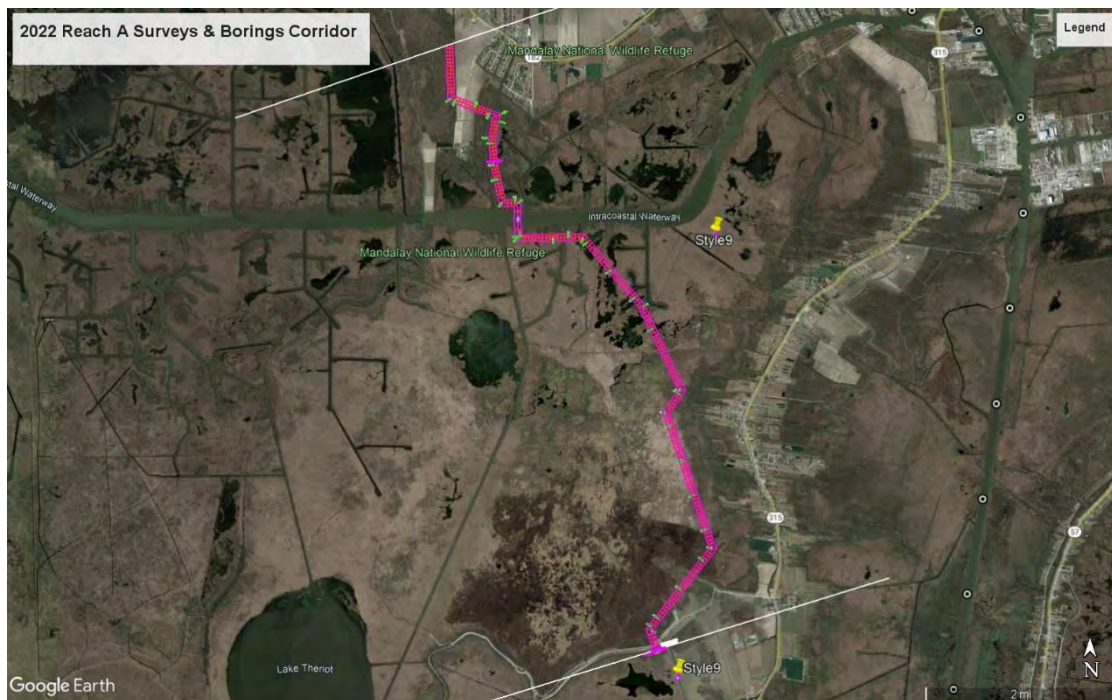


**2017 Reach A Area Map**





**2020 Reach A Aerial Photograph**

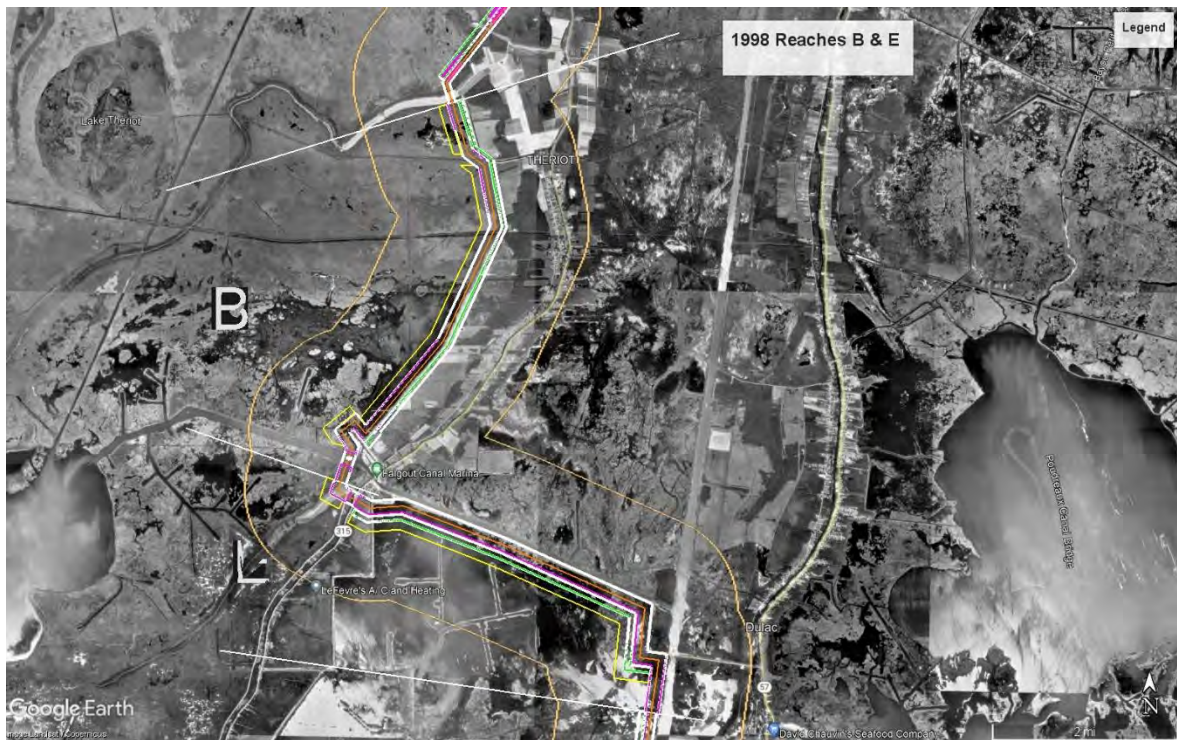


**2022 Reach A Aerial Photograph**





**1985 Reach B & E Aerial Photograph**

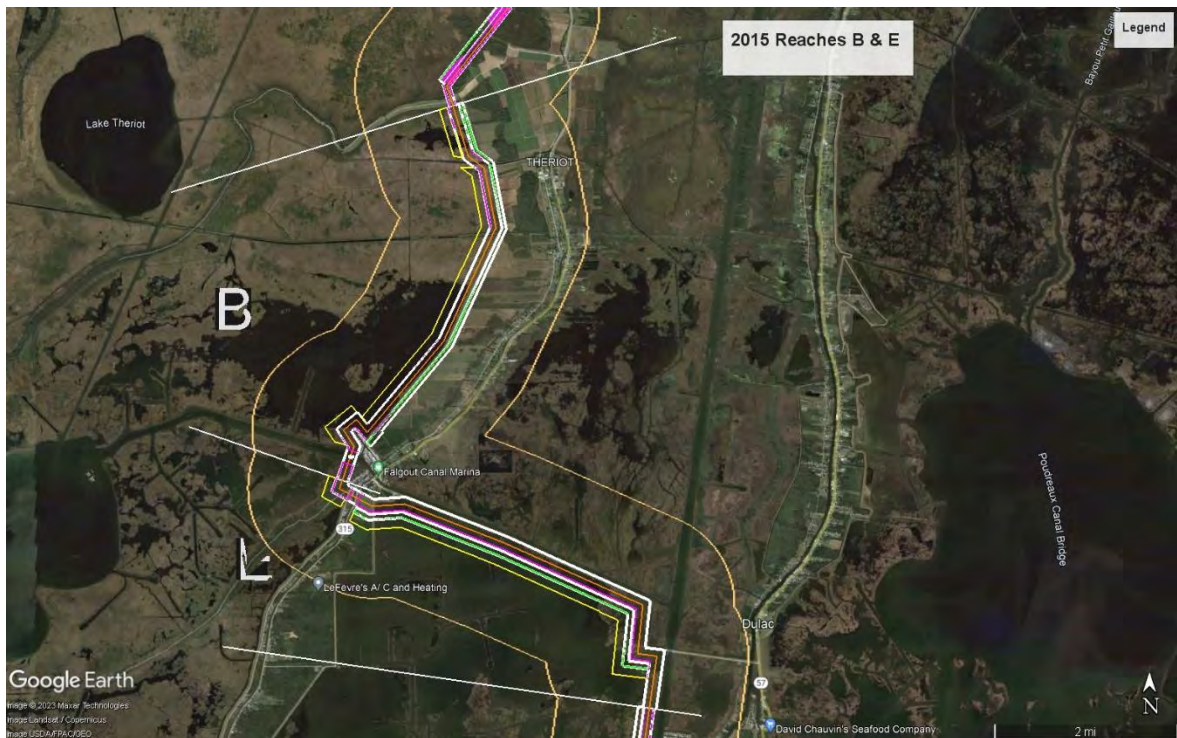


**1998 Reach B & E Aerial Photograph**





**2007 Reach B & E Aerial Photograph**

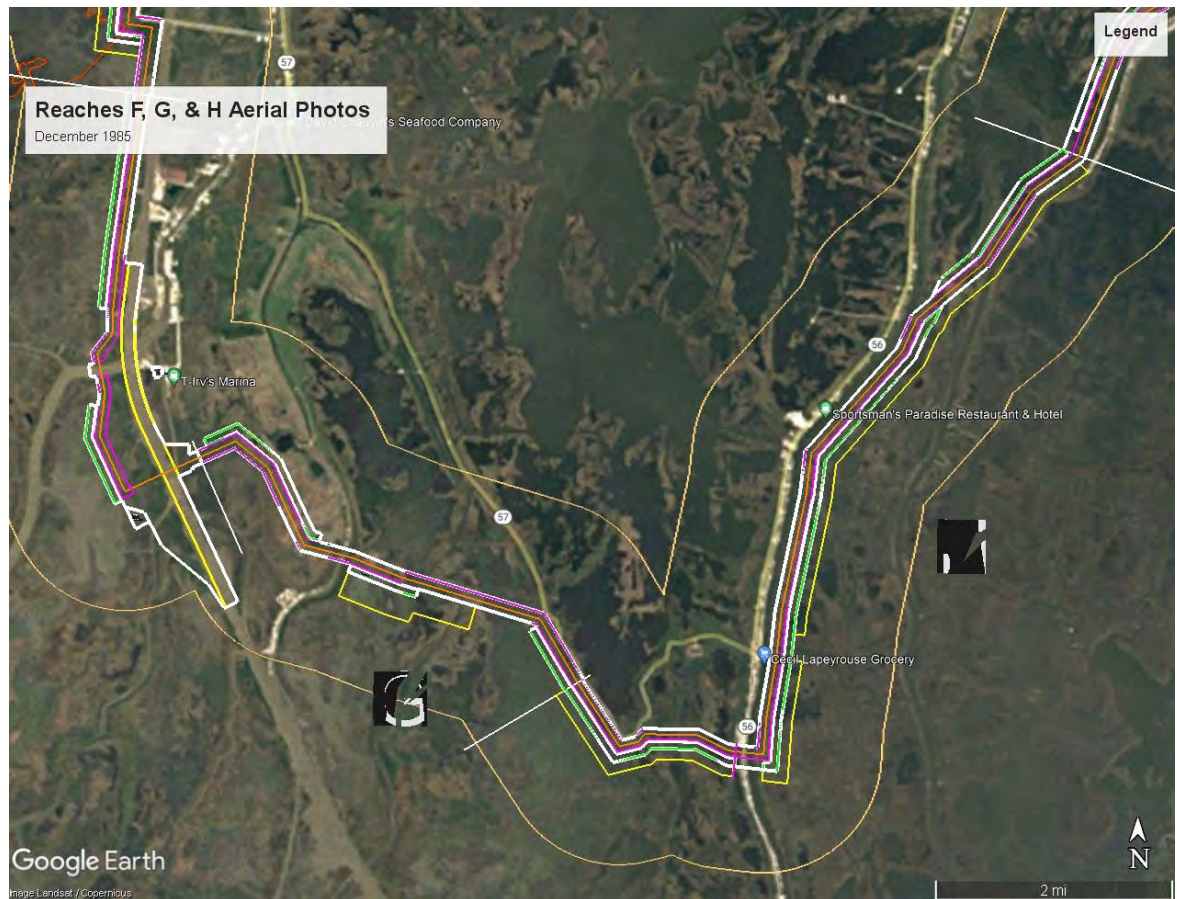


**2015 Reach B & E Aerial Photograph**



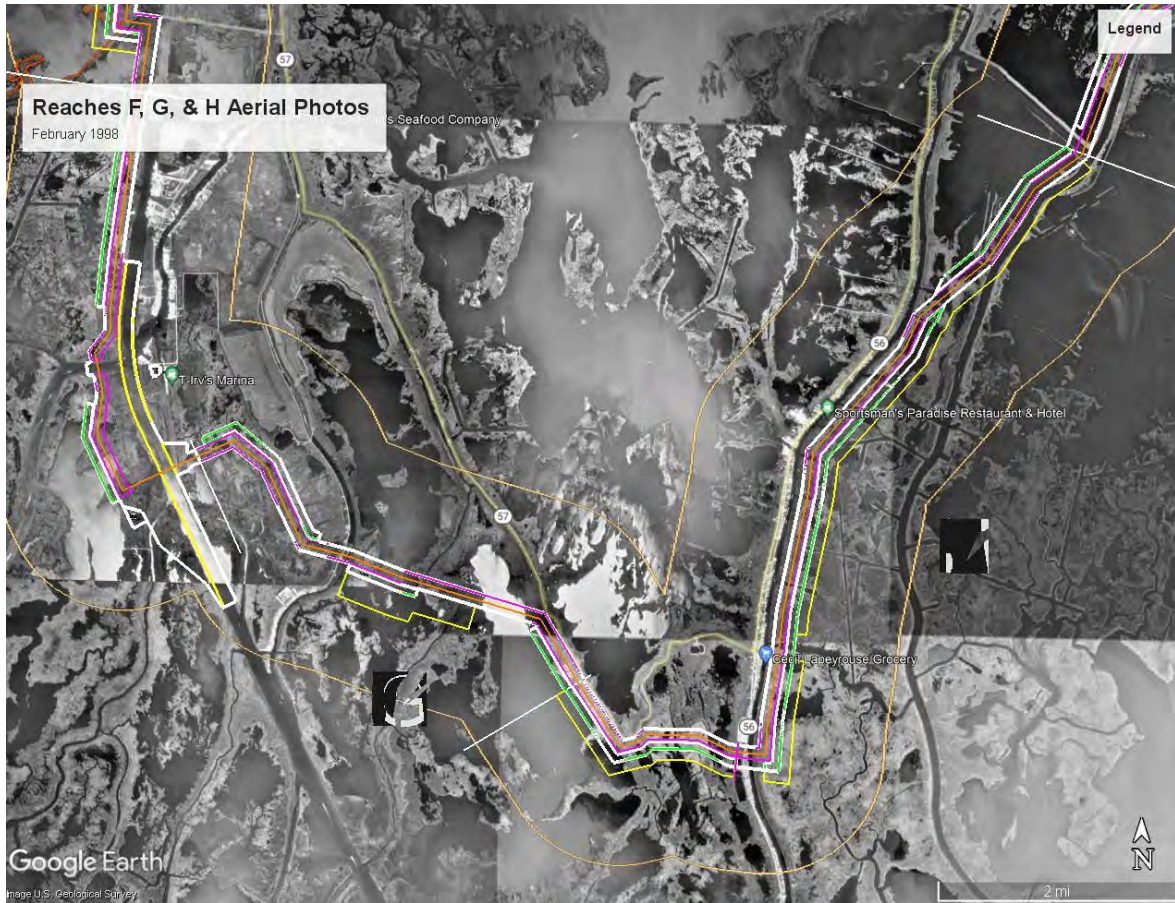


**2023 Reach B & E Aerial Photograph**

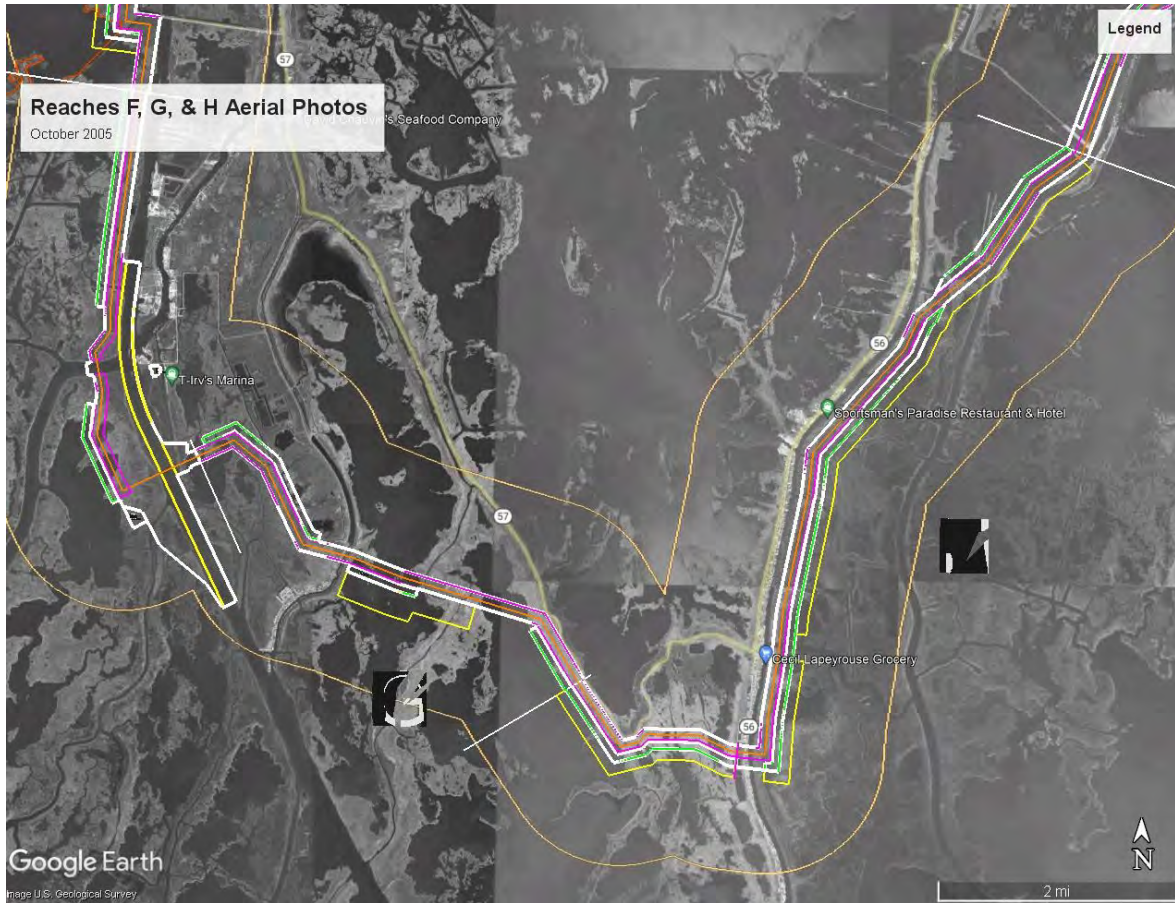


**1985 Reach F, G, & H Aerial Photograph**



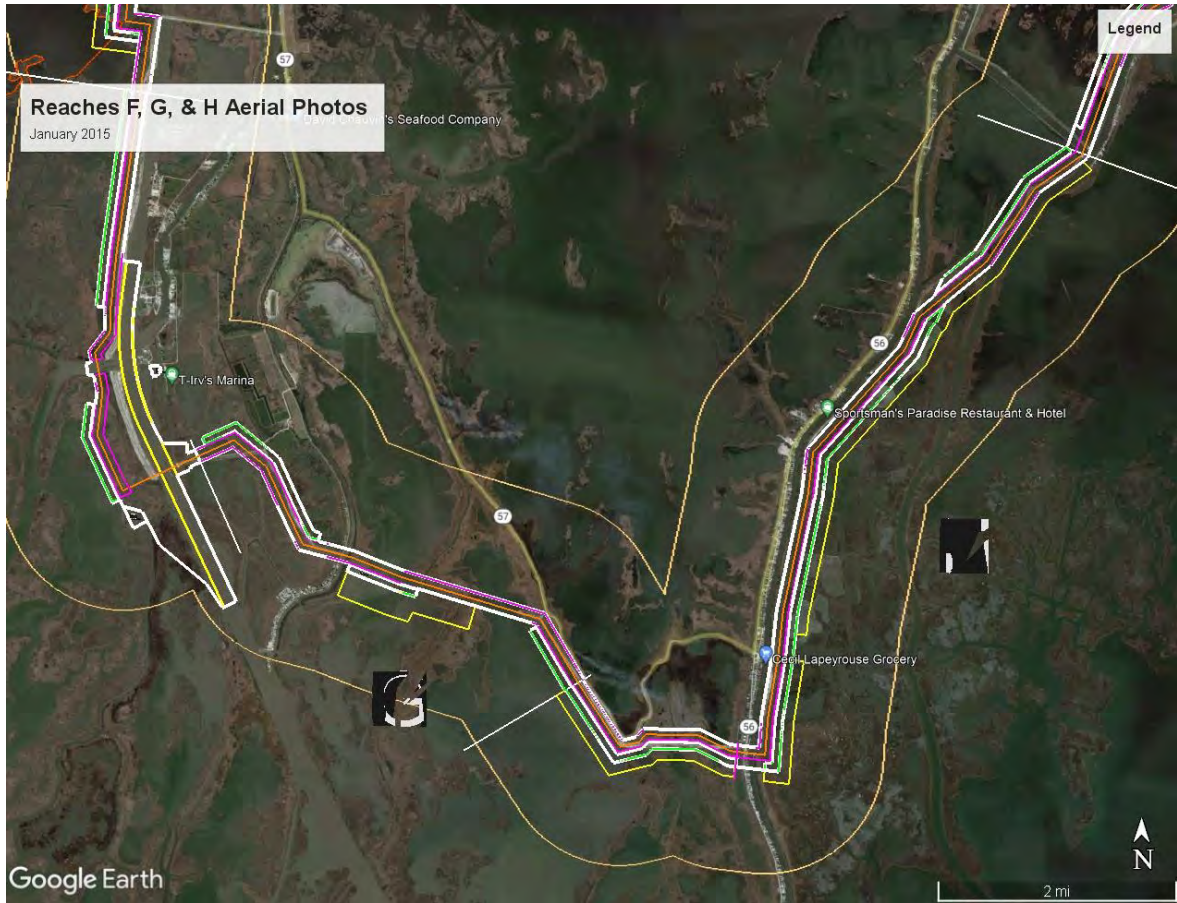


**1998 Reach F, G, & H Aerial Photograph**

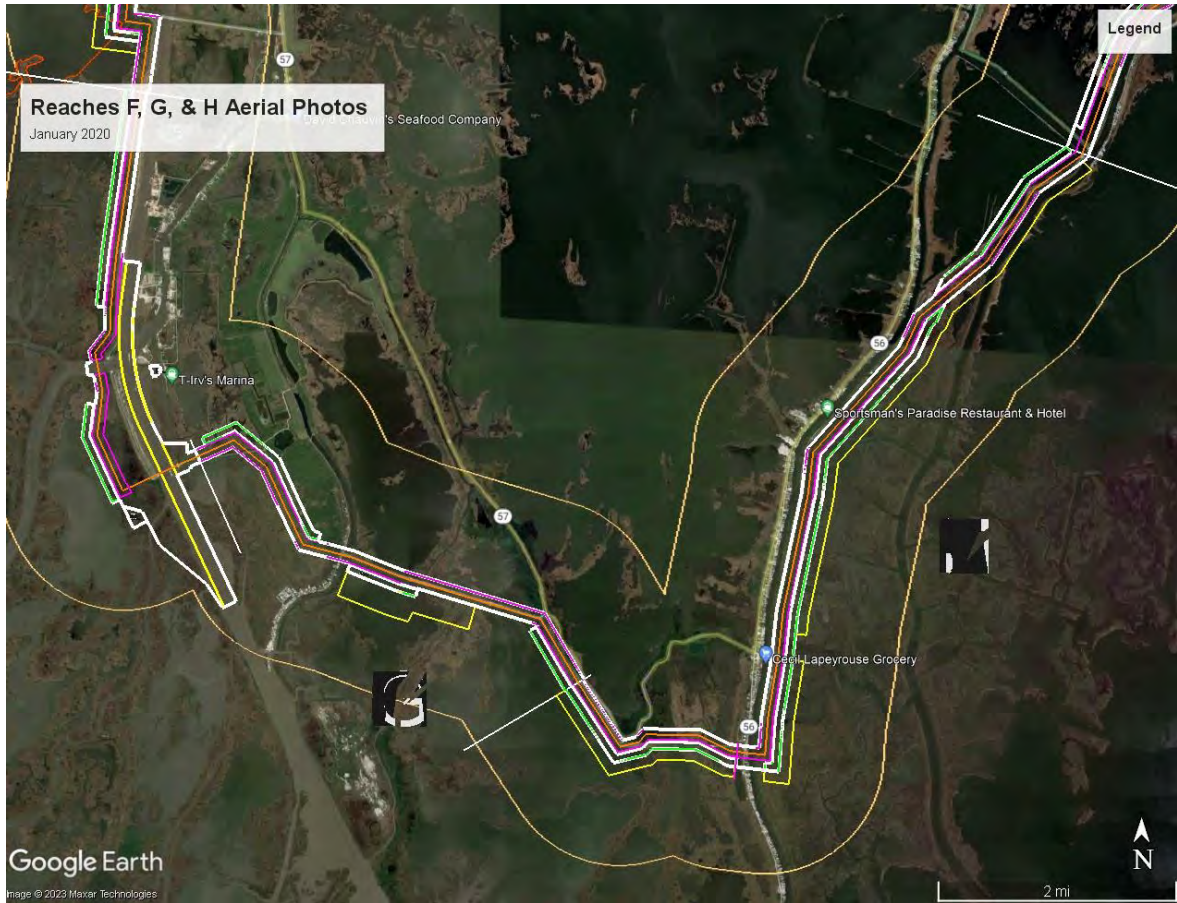


**2005 Reach F, G, & H Aerial Photograph**



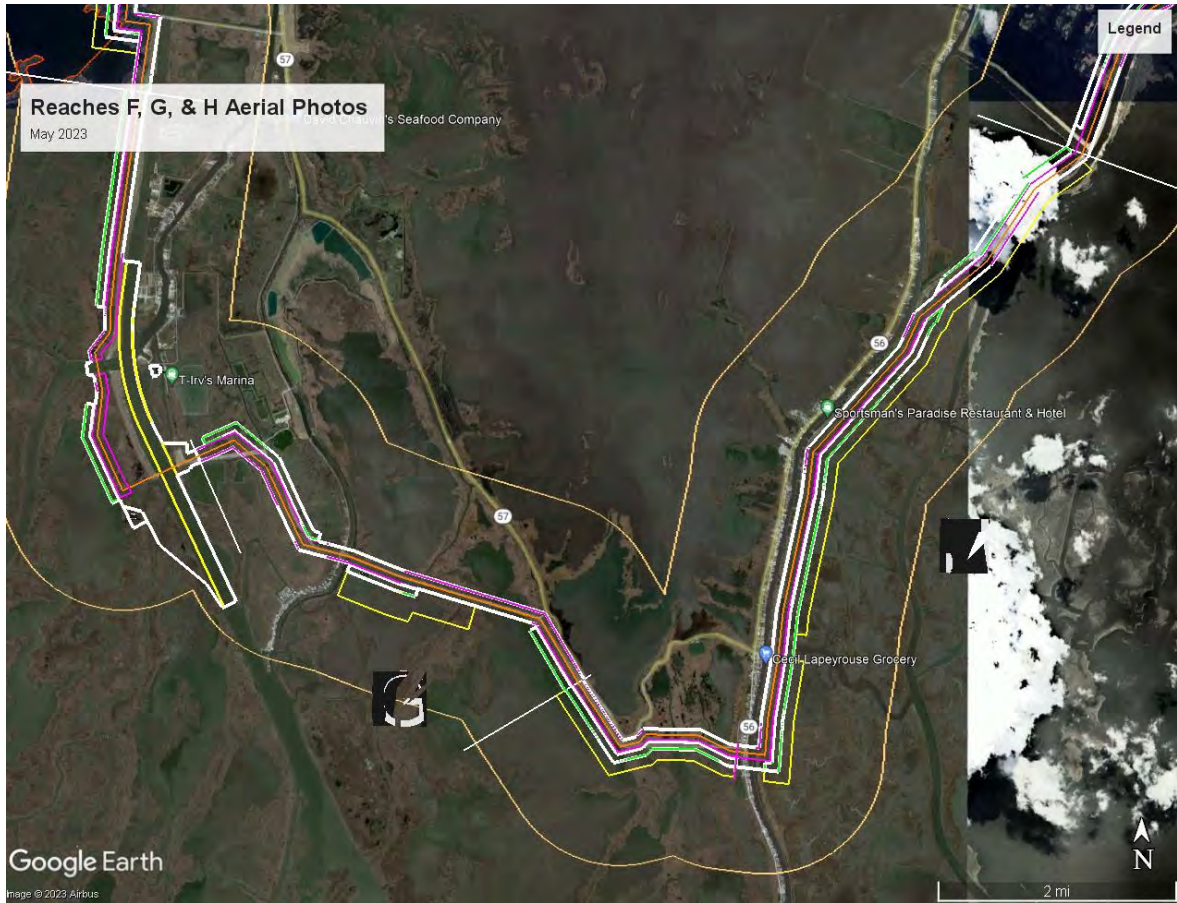


**2015 Reach F, G, & H Aerial Photograph**



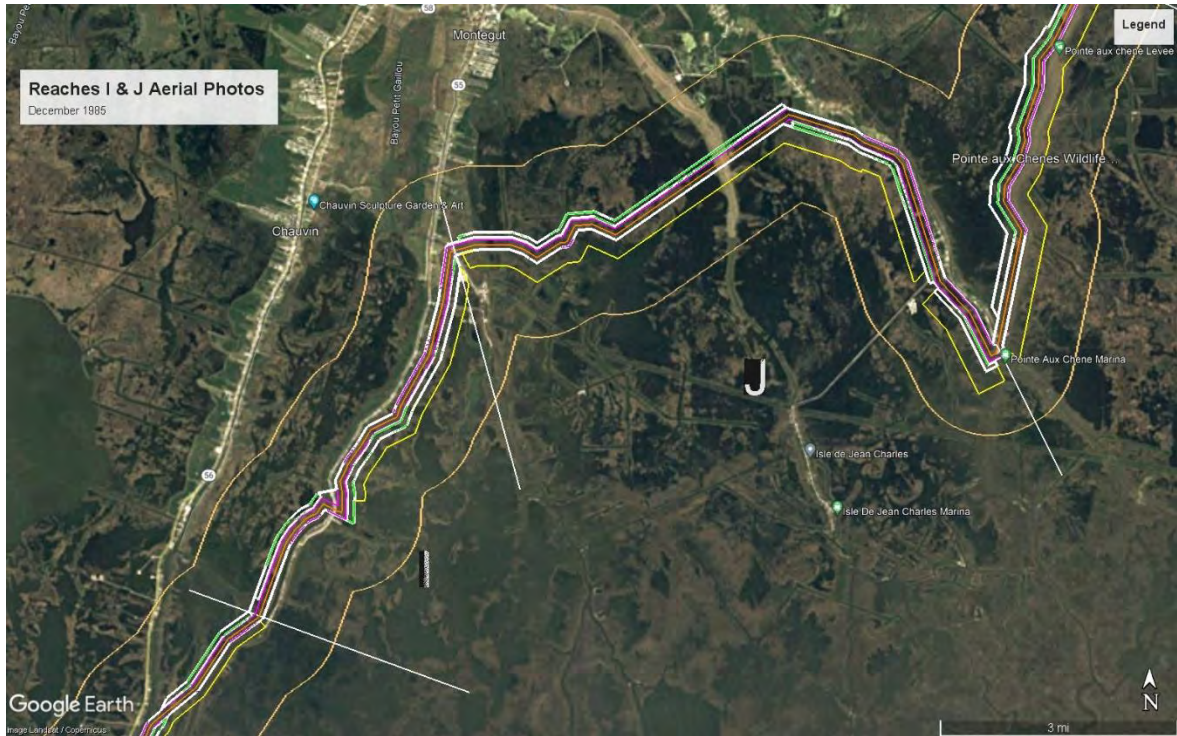
**2020 Reach F, G, & H Aerial Photograph**



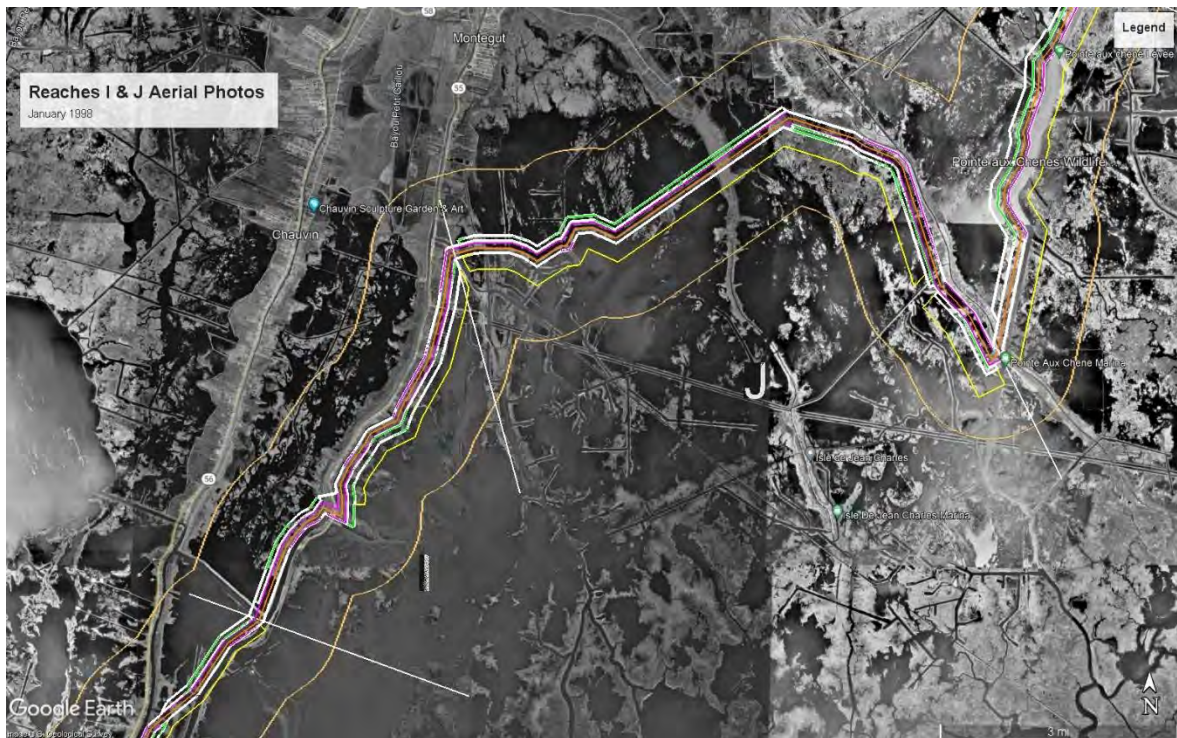


**2023 Reach F, G, & H Aerial Photograph**



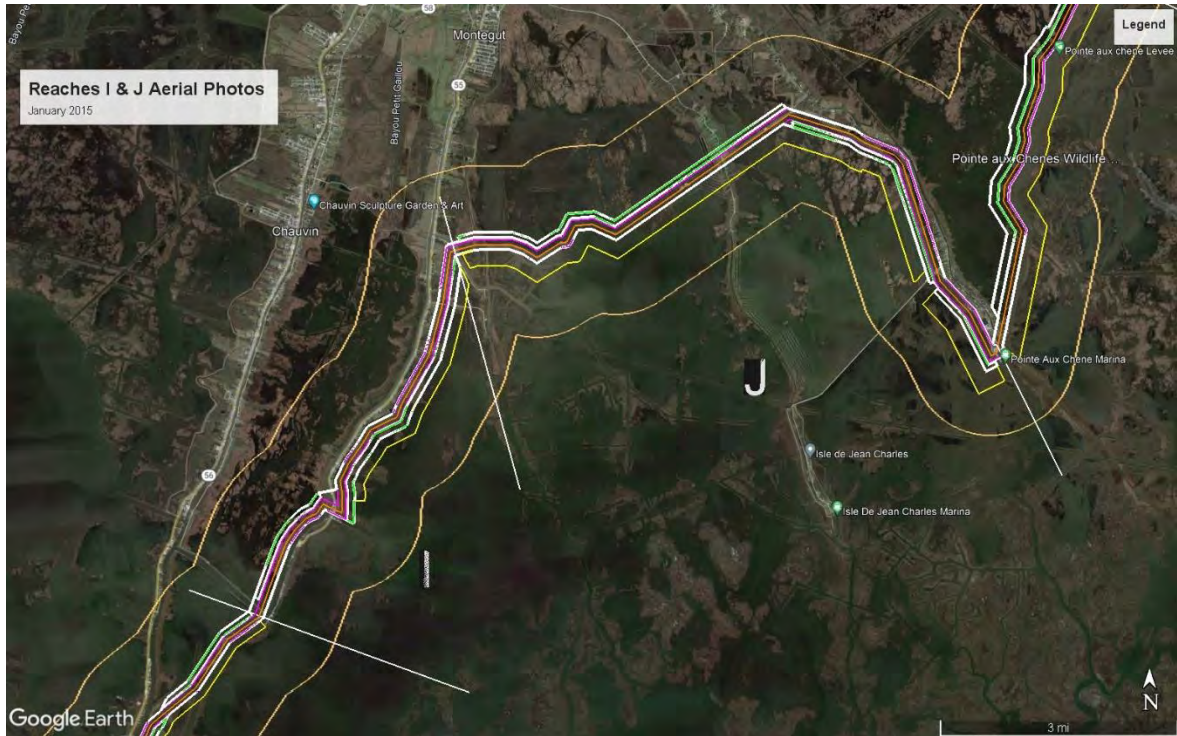


**1985 Reach I & J Aerial Photograph**

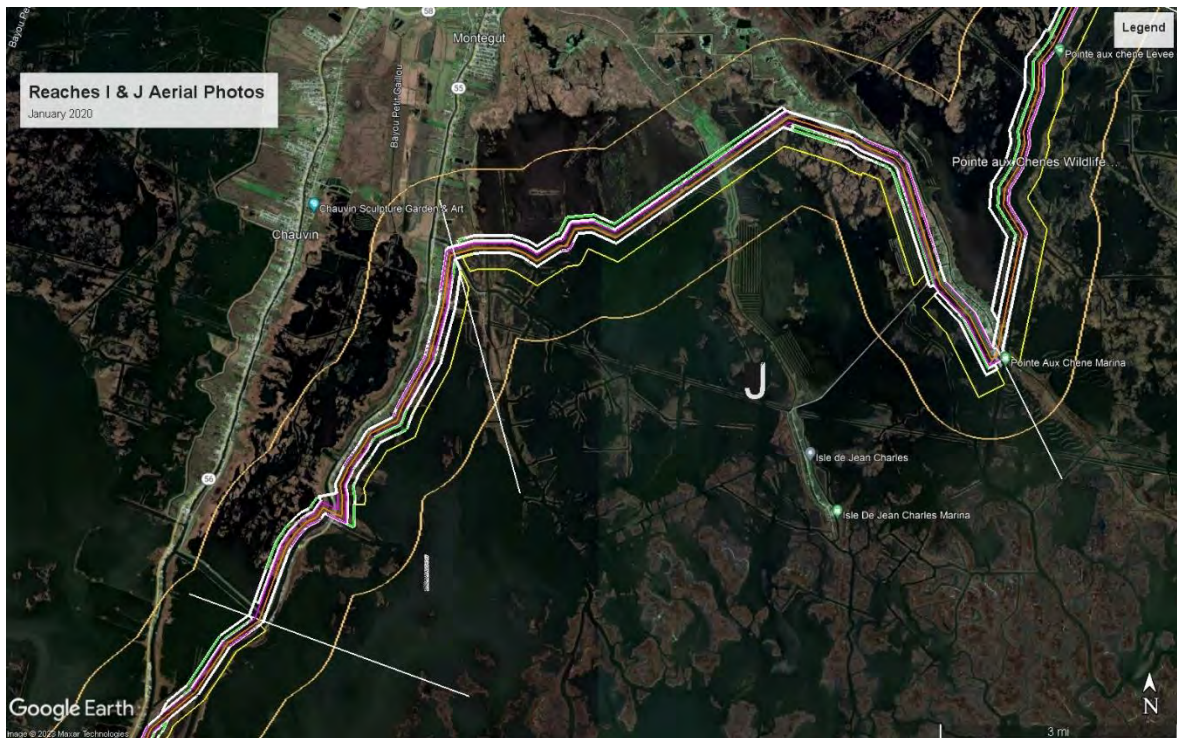


**1998 Reach I & J Aerial Photograph**



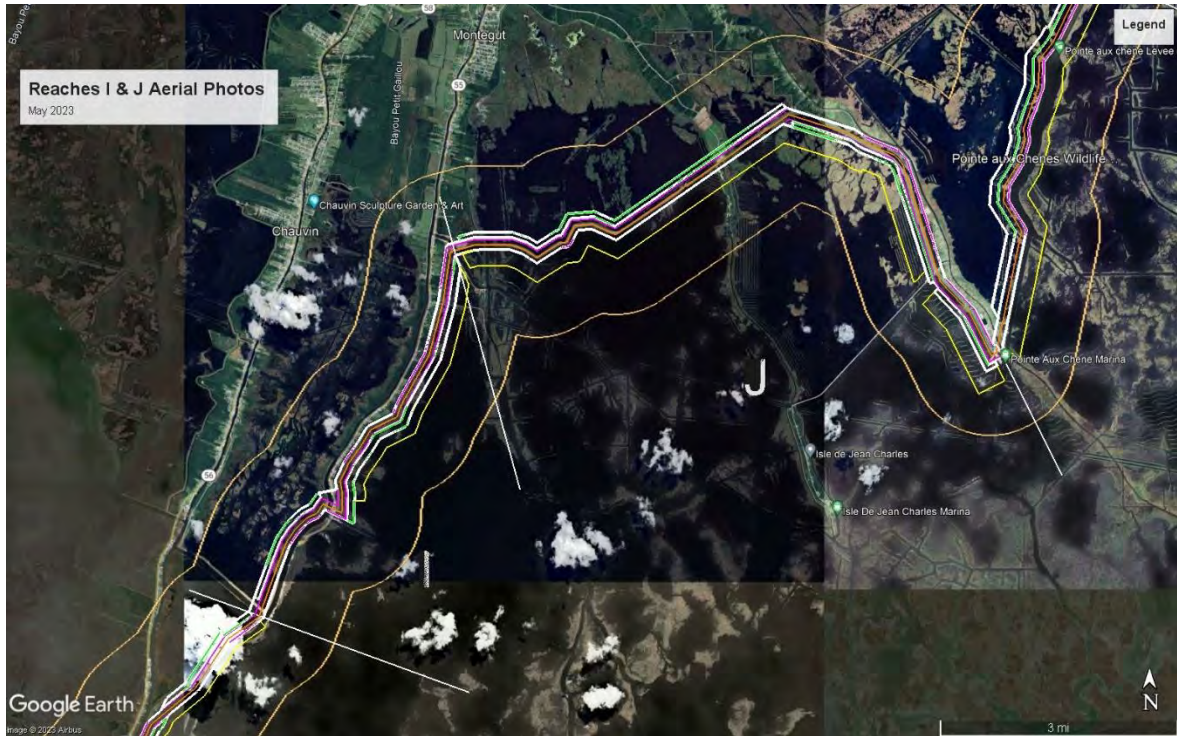


**2015 Reach I & J Aerial Photograph**

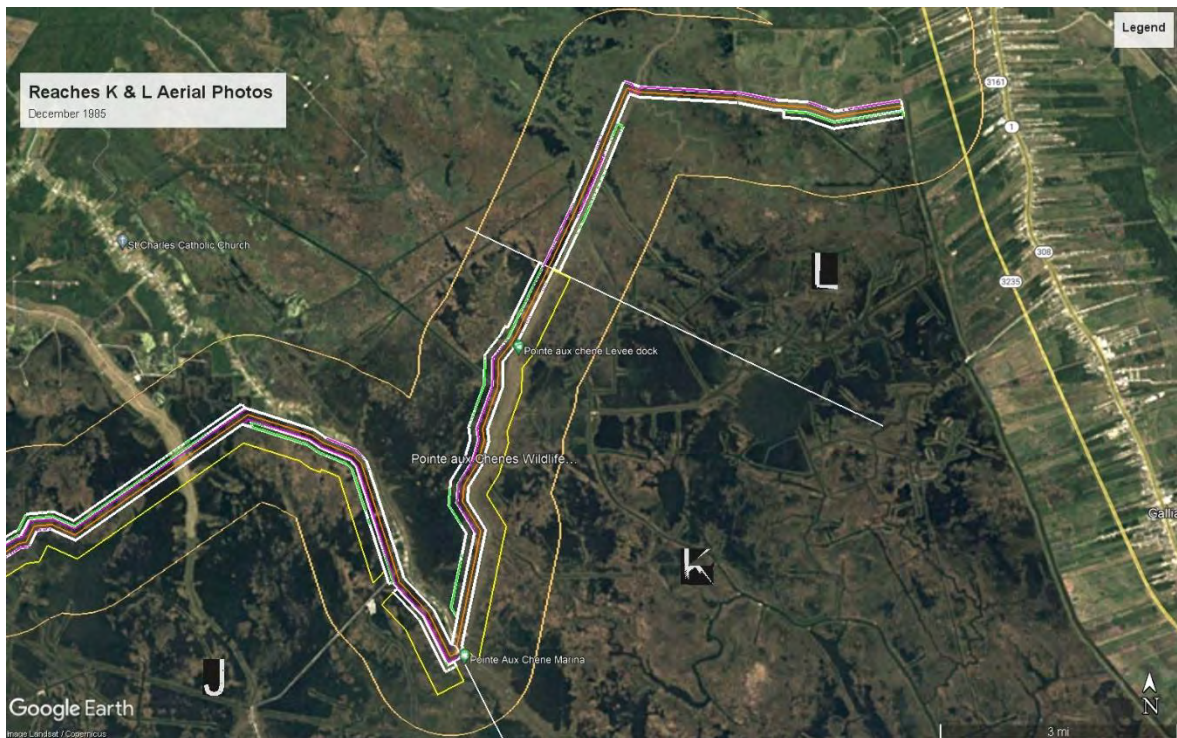


**2020 Reach I & J Aerial Photograph**



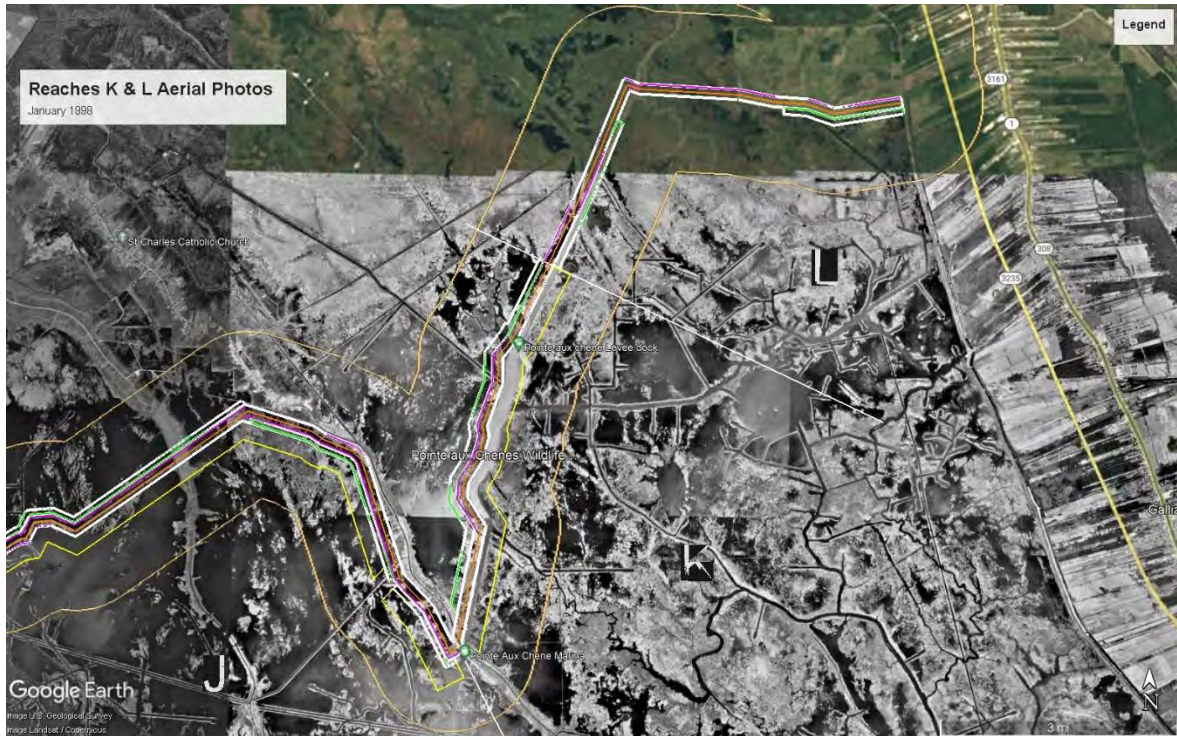


**2023 Reach I & J Aerial Photograph**

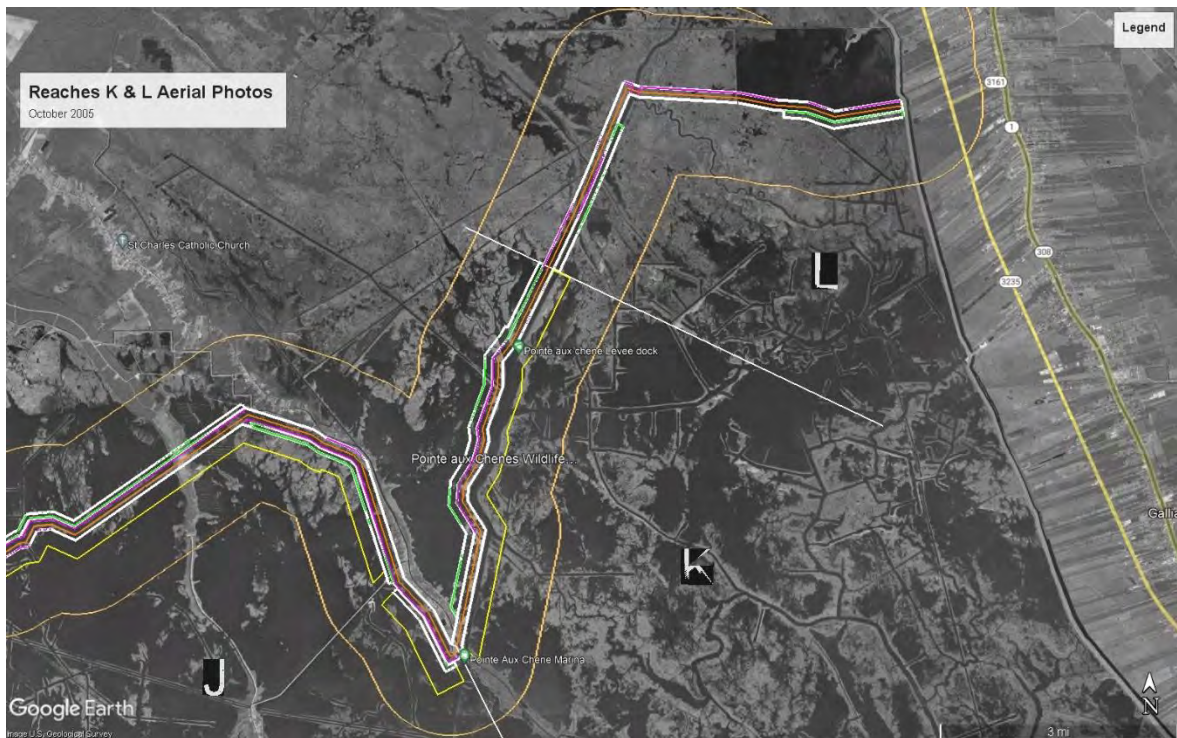


**1985 Reach K & L Aerial Photograph**



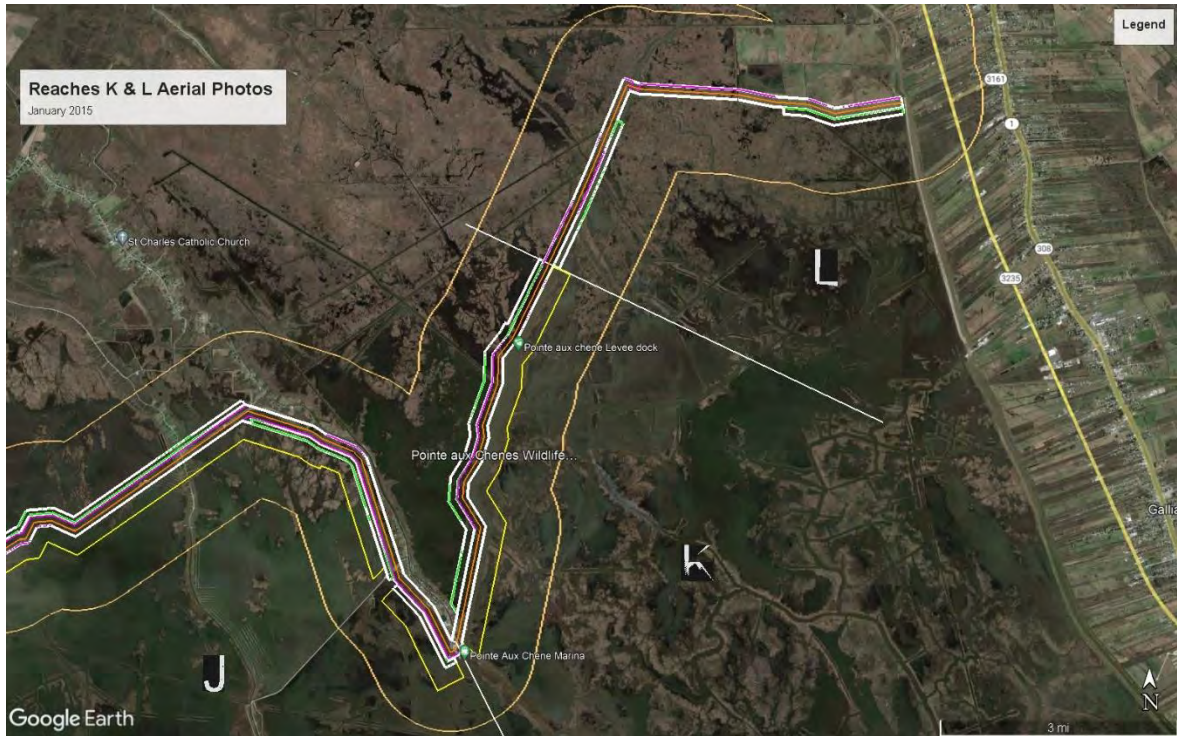


**1998 Reach K & L Aerial Photograph**

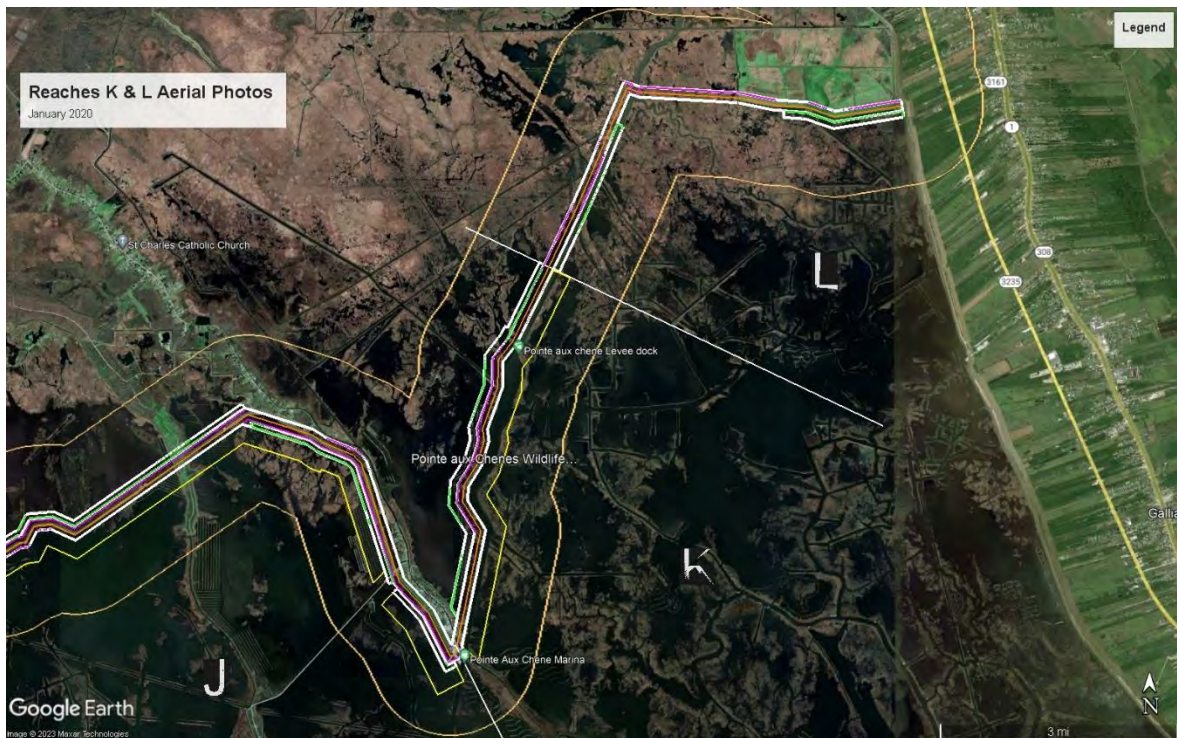


**2005 Reach K & L Aerial Photograph**



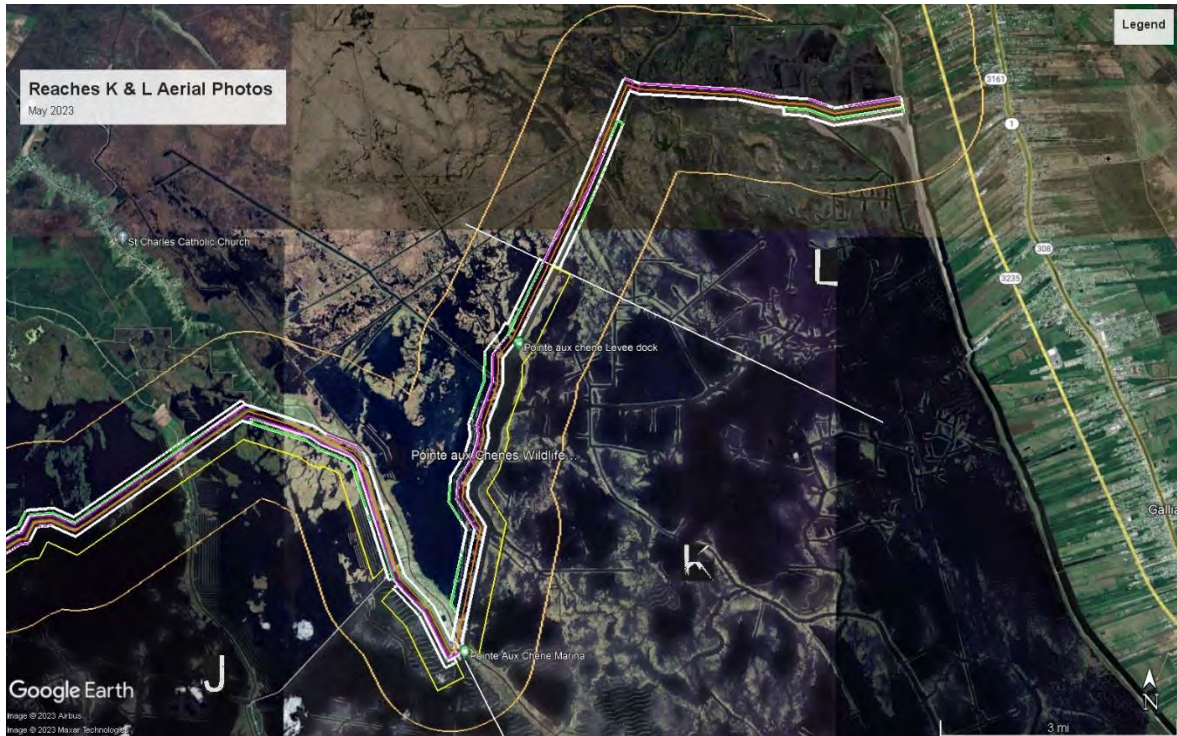


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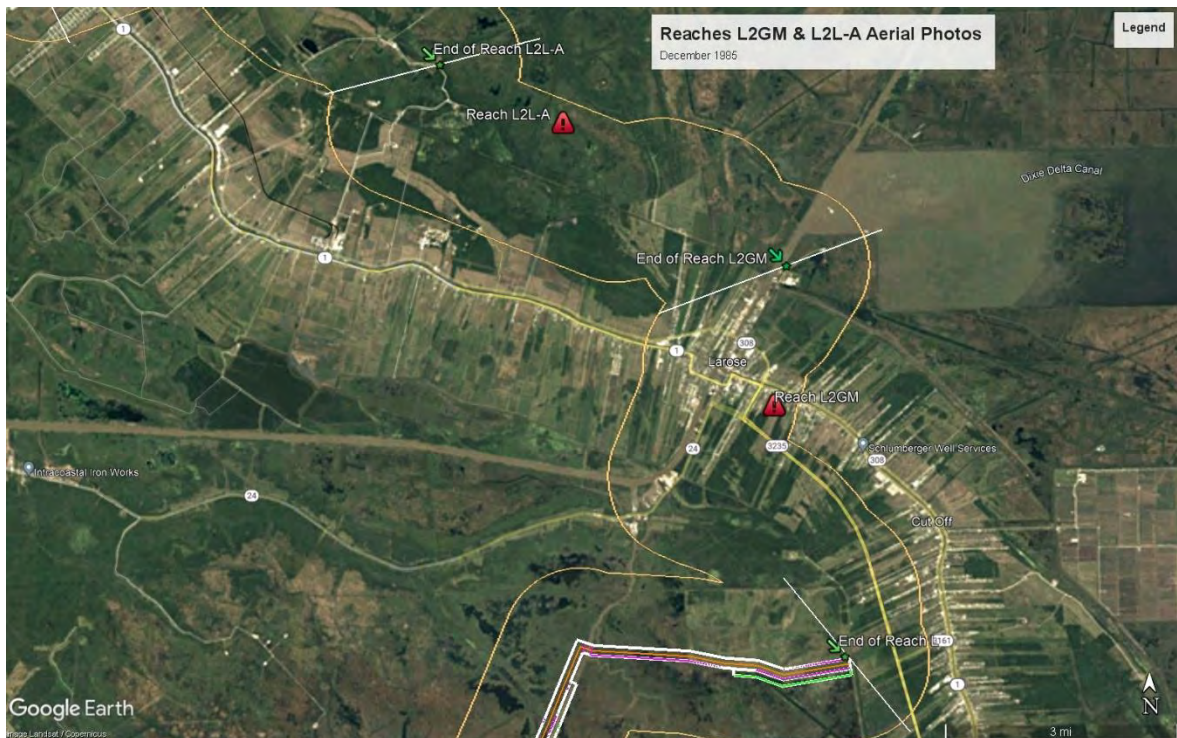


**2020 Reach K & L Aerial Photograph**



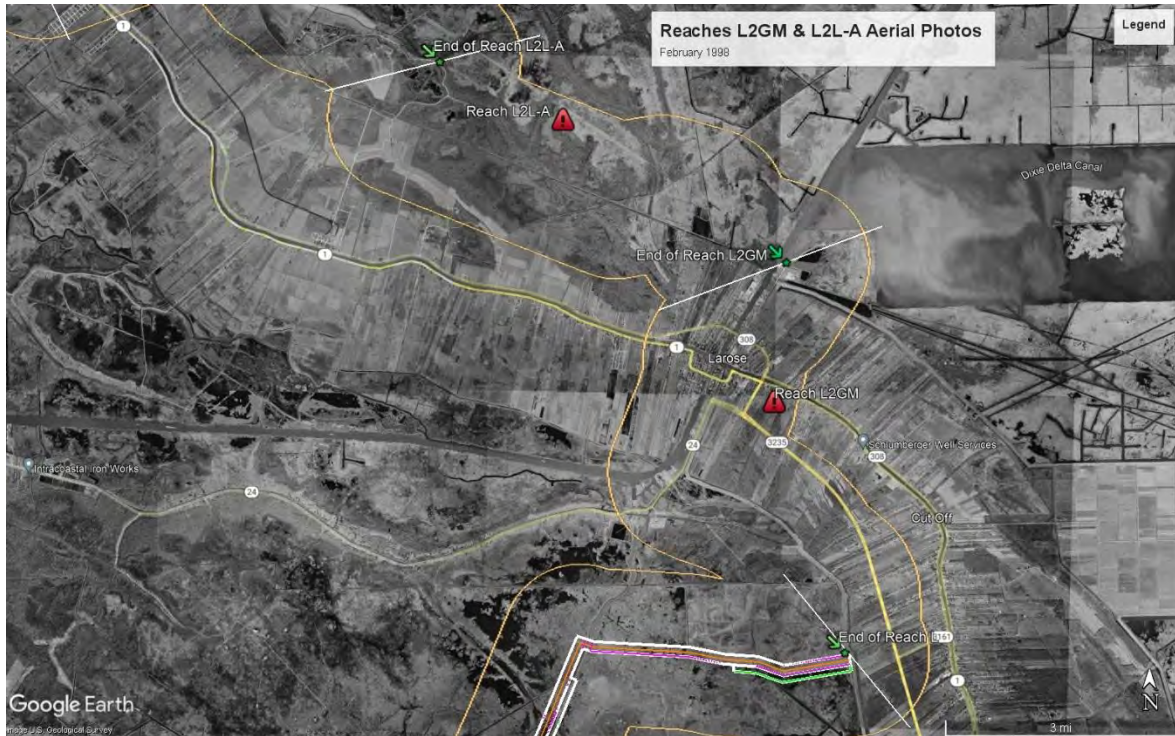


**2023 Reach K & L Aerial Photograph**

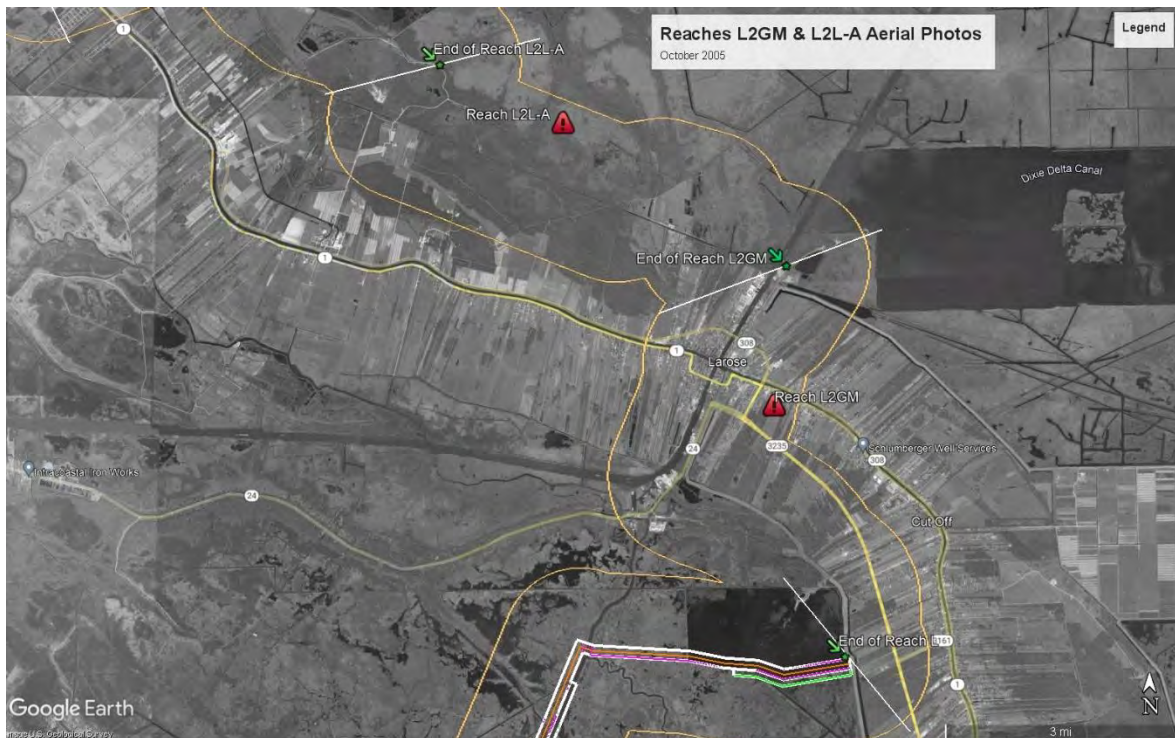


**1985 Reach L2GM & L2L-A Aerial Photograph**





**1998 Reach L2GM & L2L-A Aerial Photograph**



**2005 Reach L2GM & L2L-A Aerial Photograph**



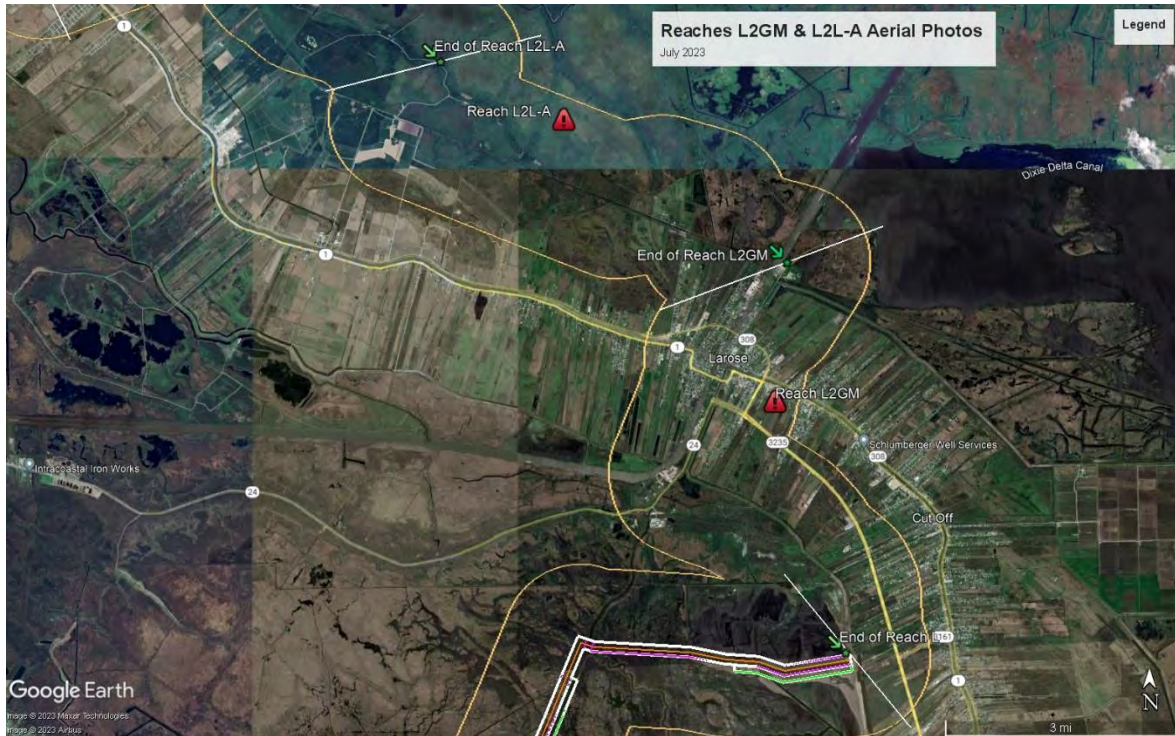


**2015 Reach L2GM & L2L-A Aerial Photograph**

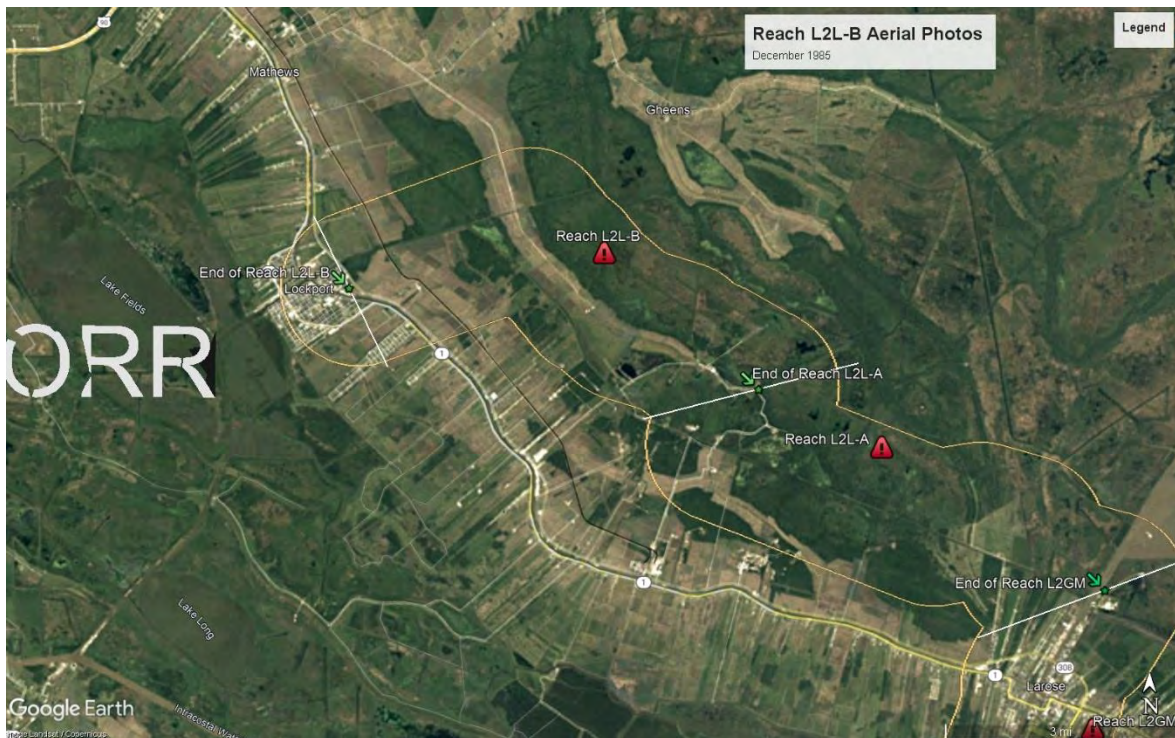


**2020 Reach L2GM & L2L-A Aerial Photograph**



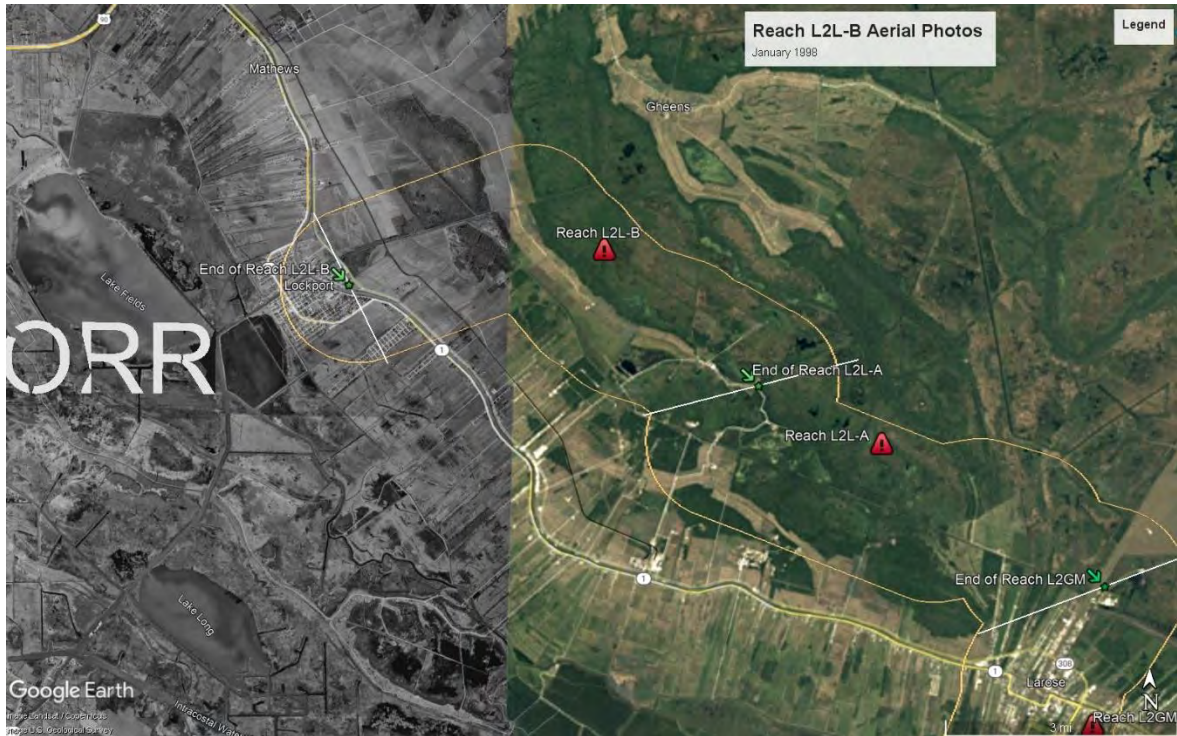


**2023 Reach L2GM & L2L-A Aerial Photograph**



**1985 Reach L2L-B Aerial Photograph**



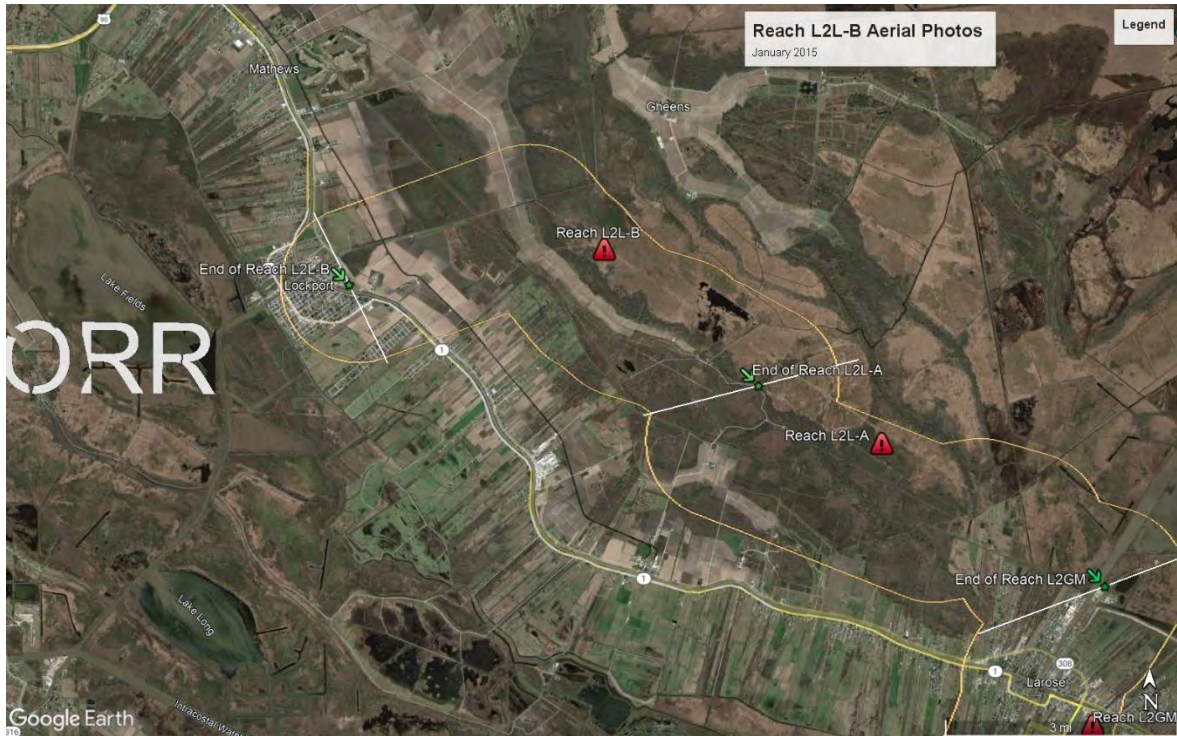


**1998 Reach L2L-B Aerial Photograph**



**2005 Reach L2L-B Aerial Photograph**





**2015 Reach L2L-B Aerial Photograph**



**2020 Reach L2L-B Aerial Photograph**





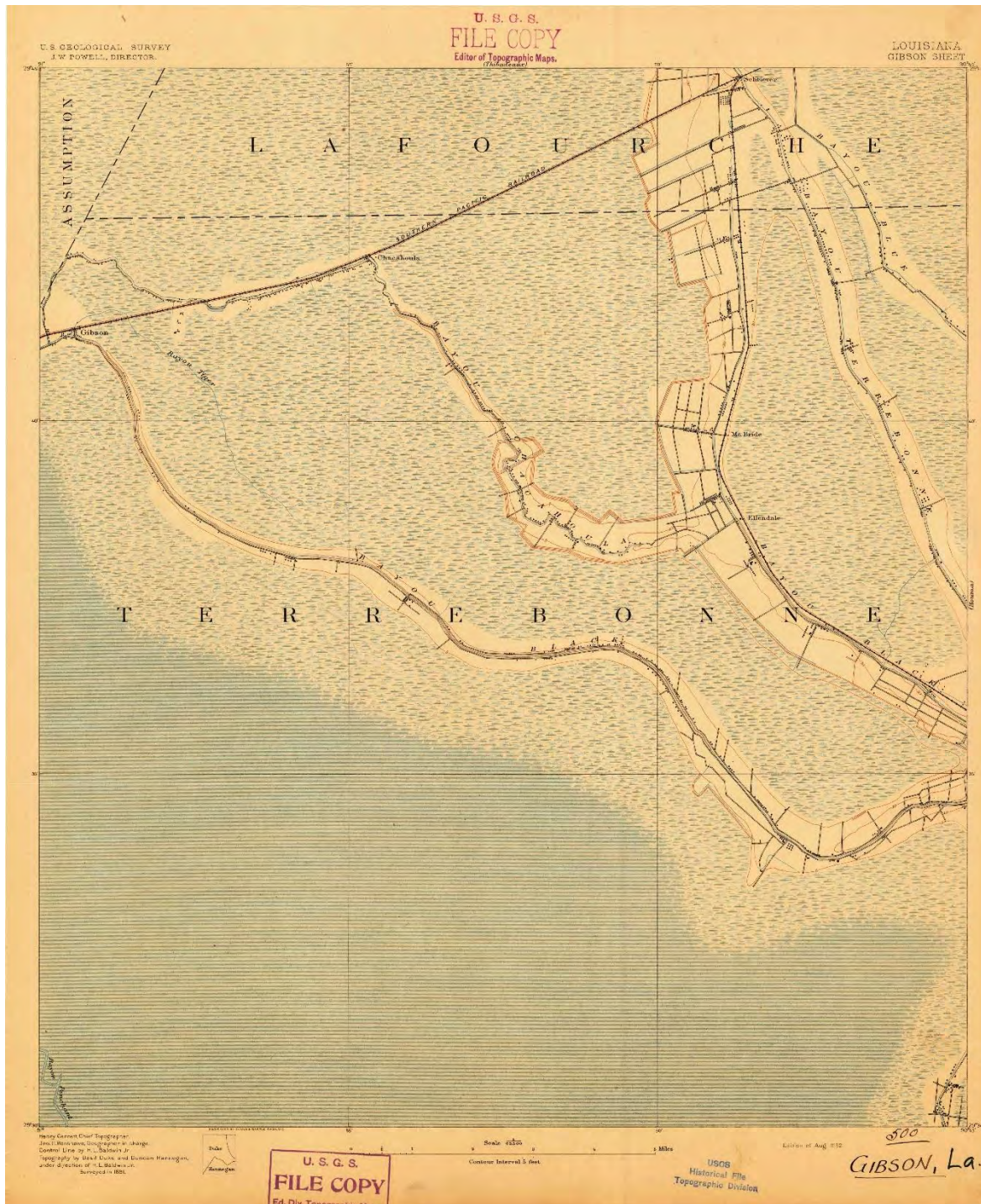
**2023 Reach L2L-B Aerial Photograph**

**APPENDIX C**

**MORGANZA TO THE GULF  
SURVEYS AND BORINGS ALIGNMENT**

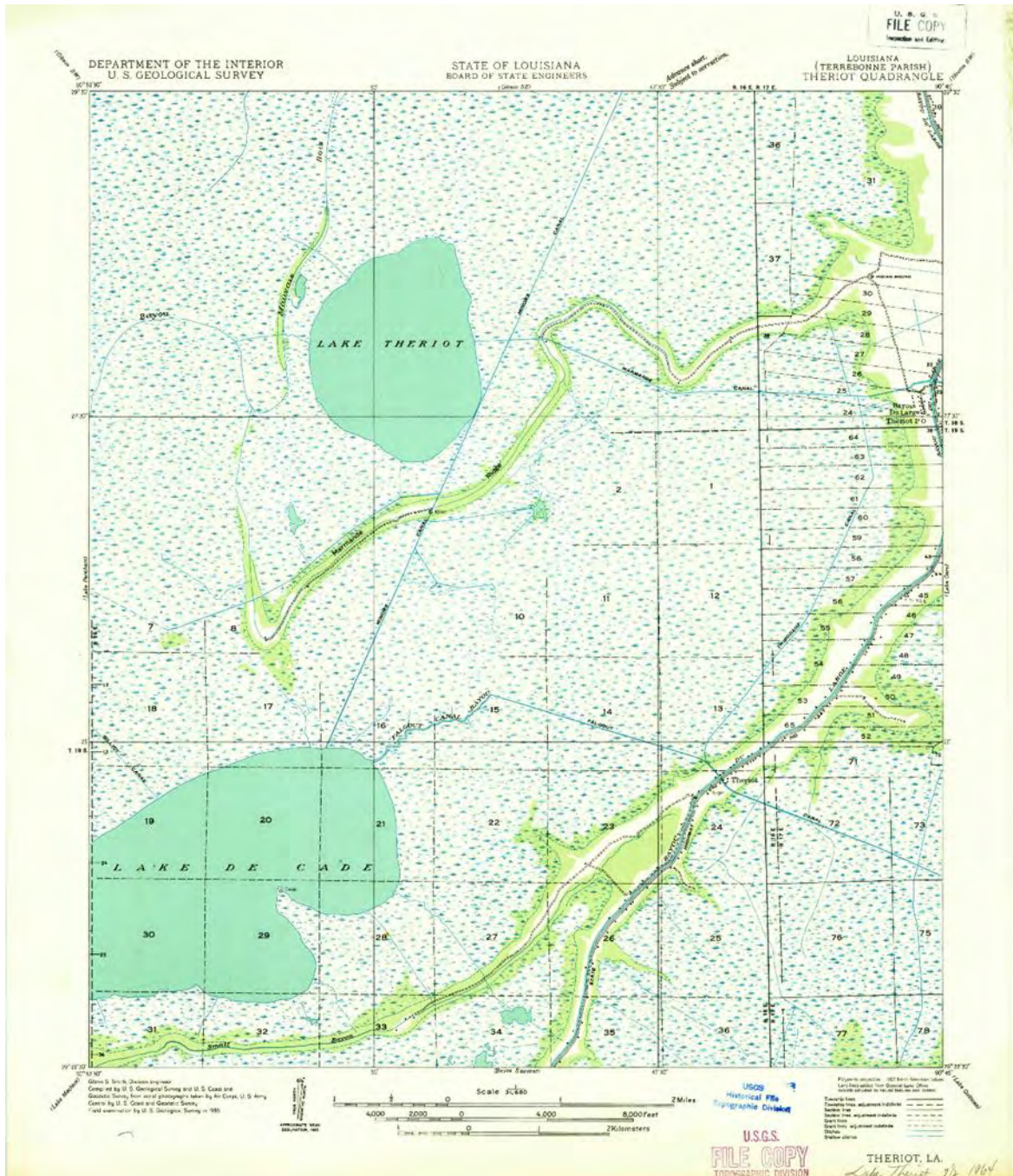
**TOPOGRAPHIC MAPS**



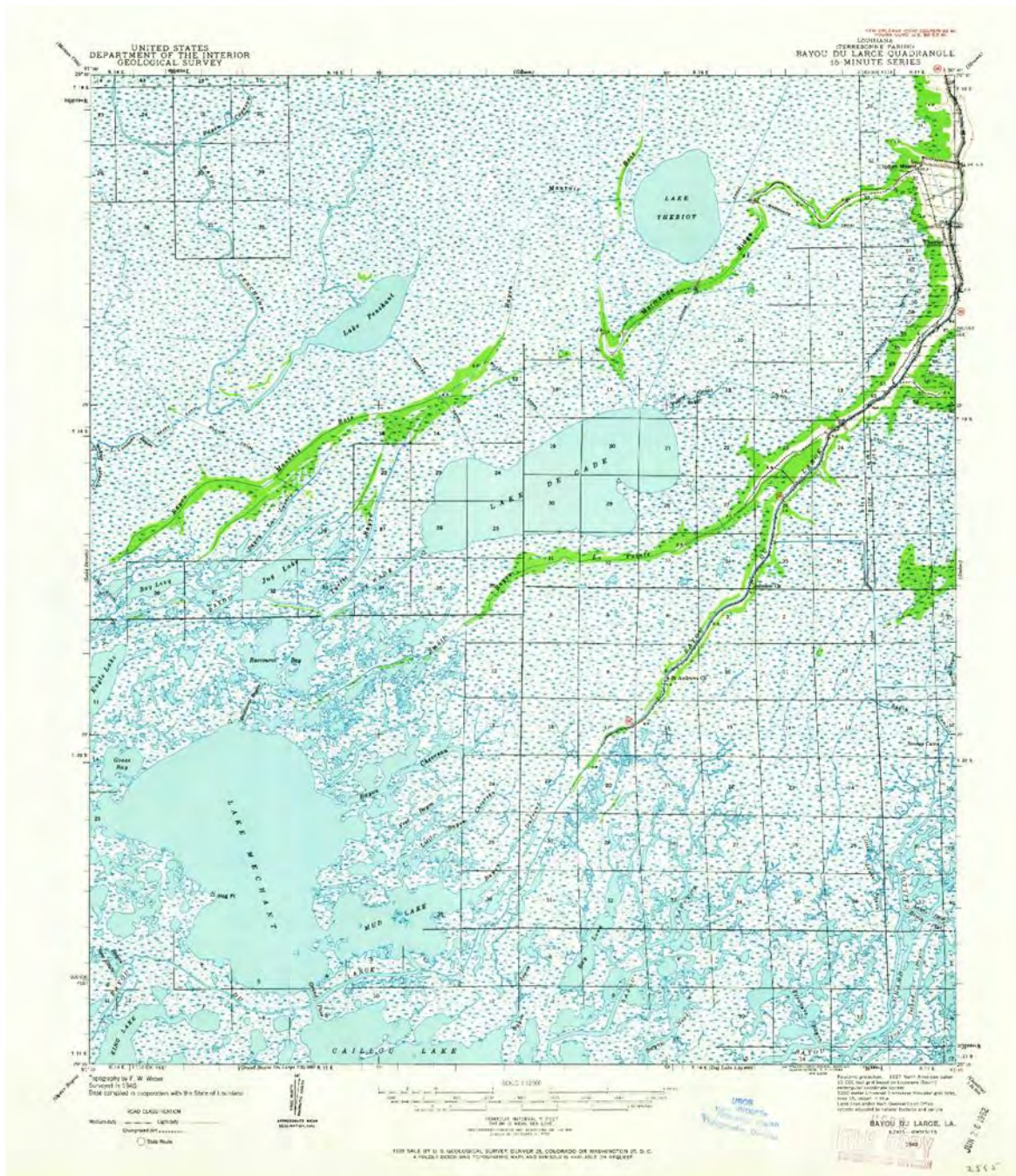


1892 Reach BA Area Topographic Map

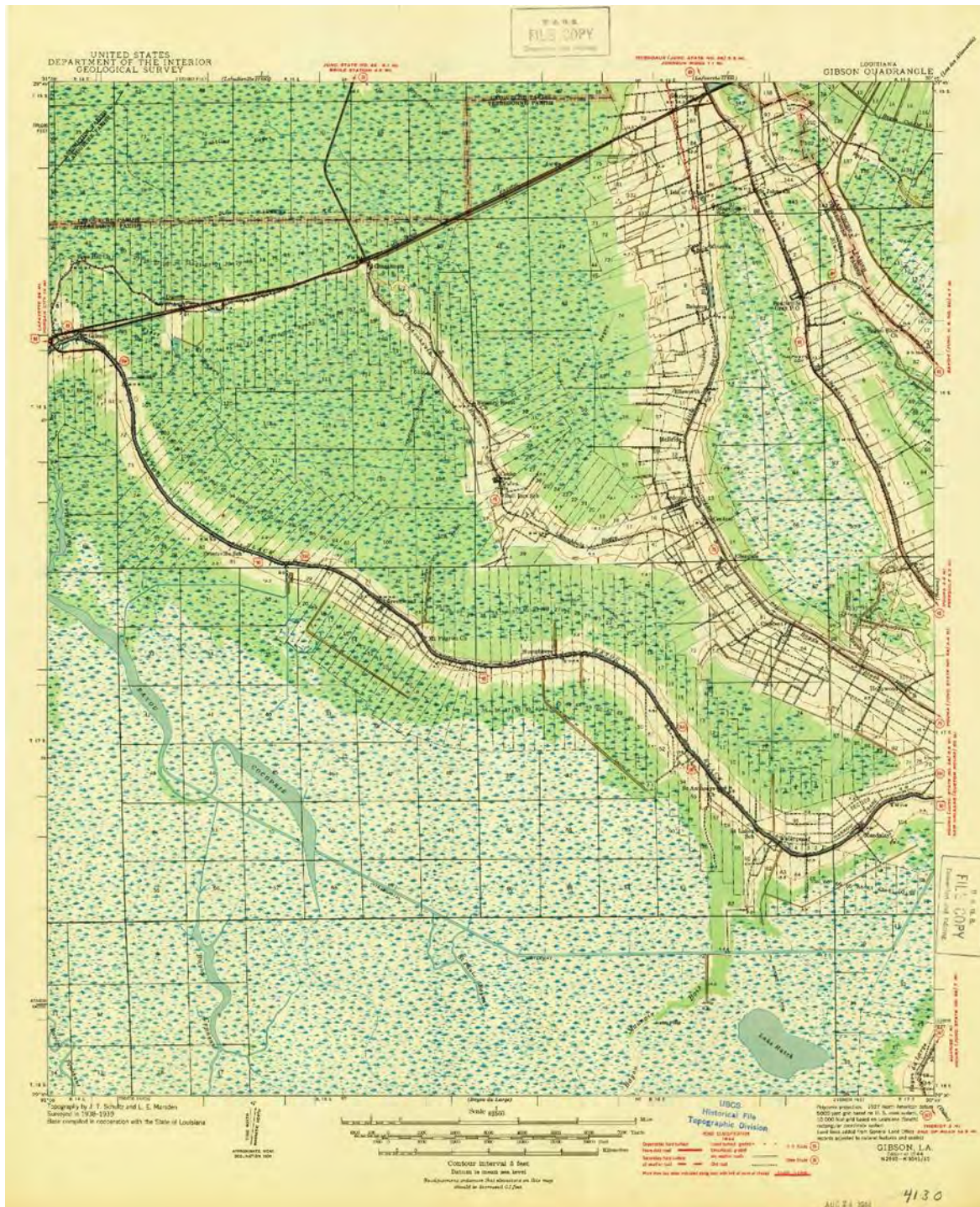




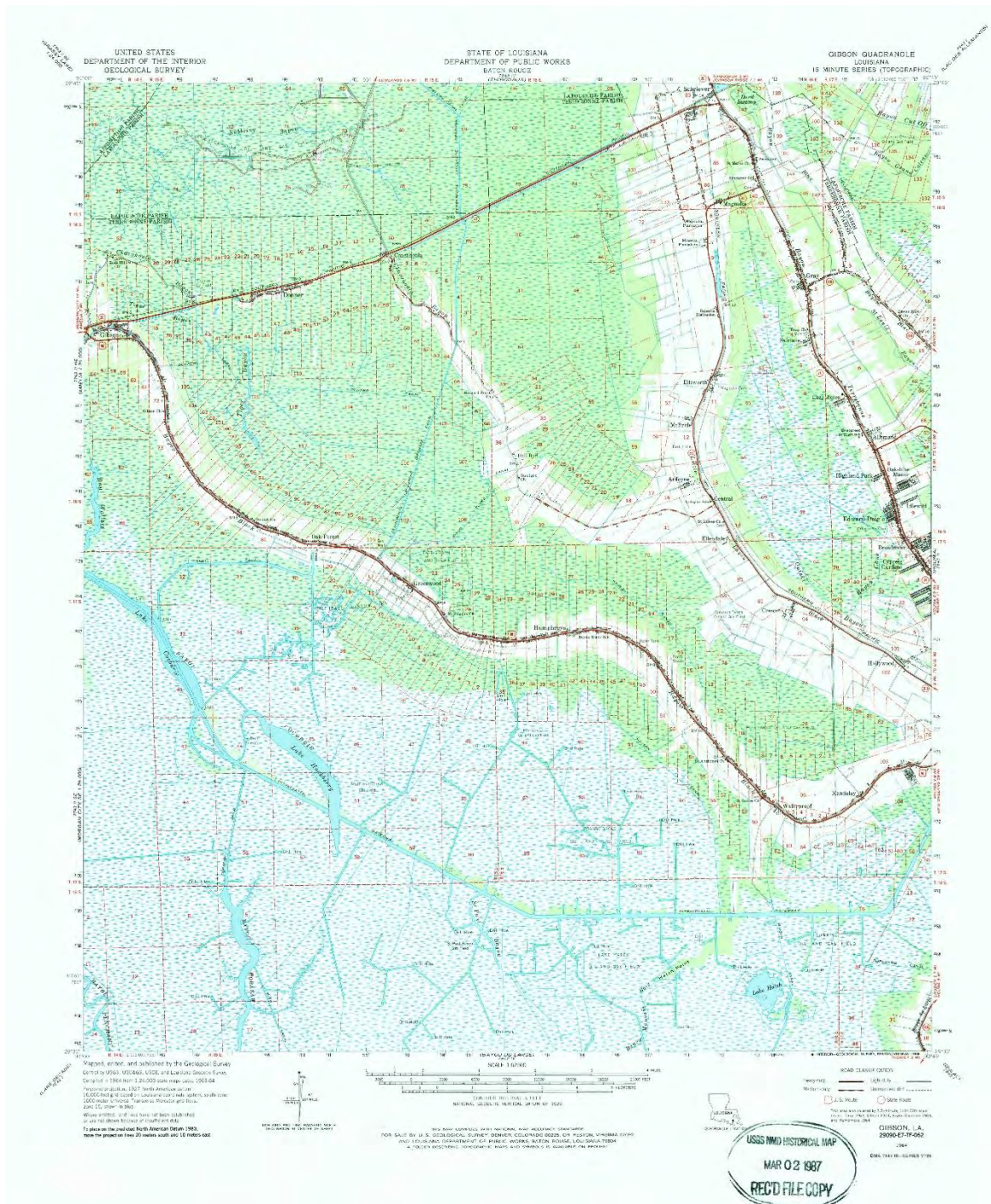








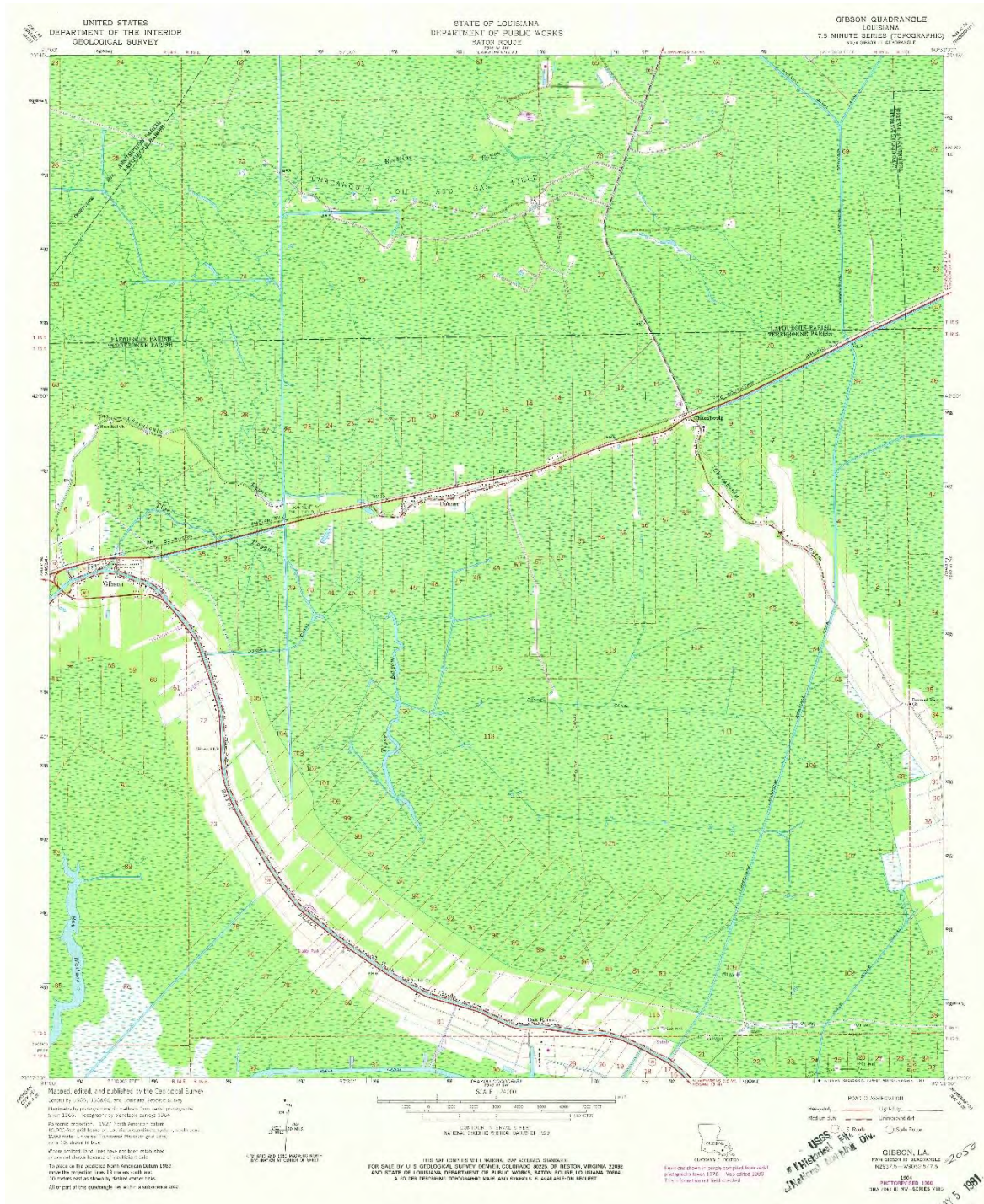






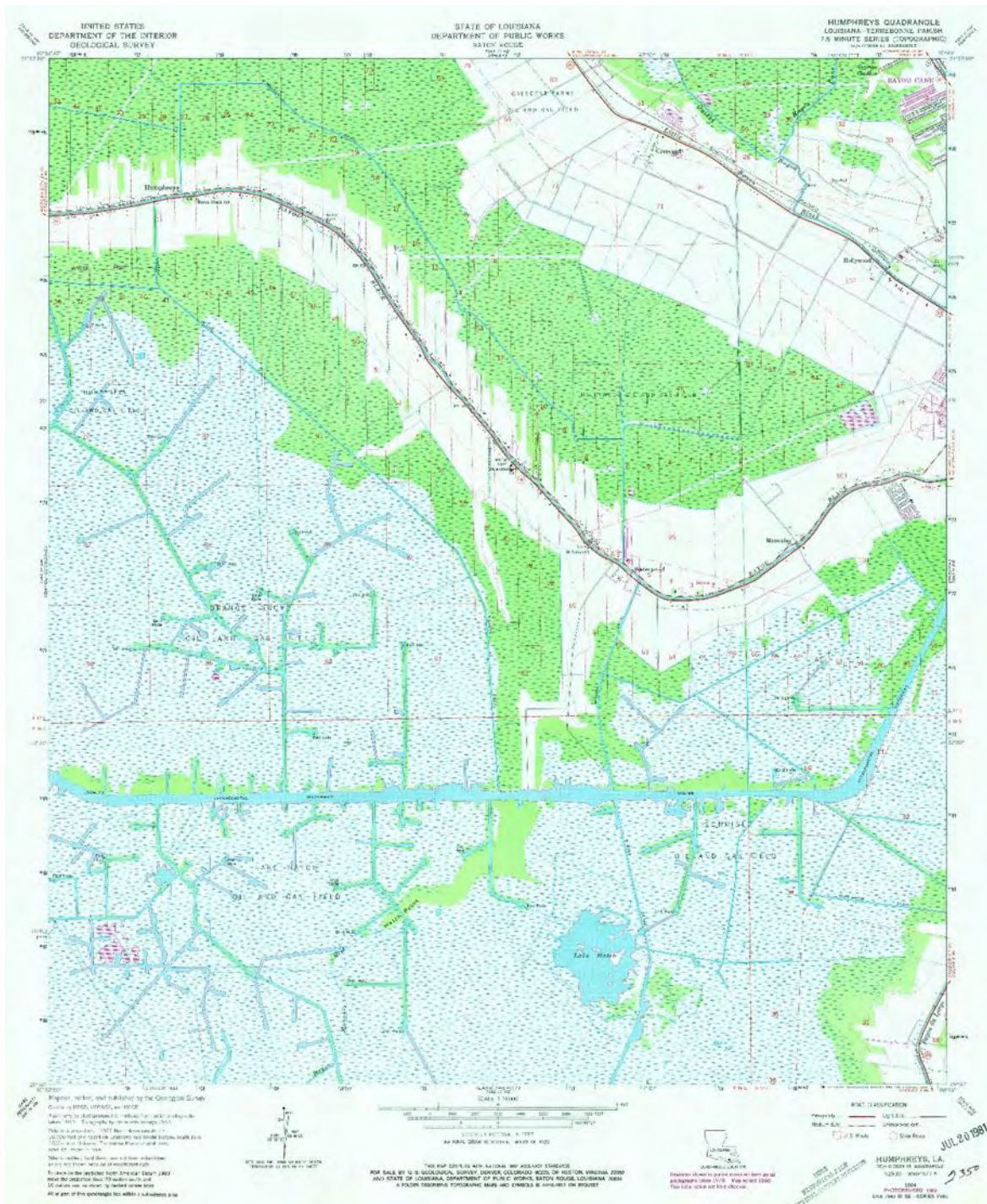






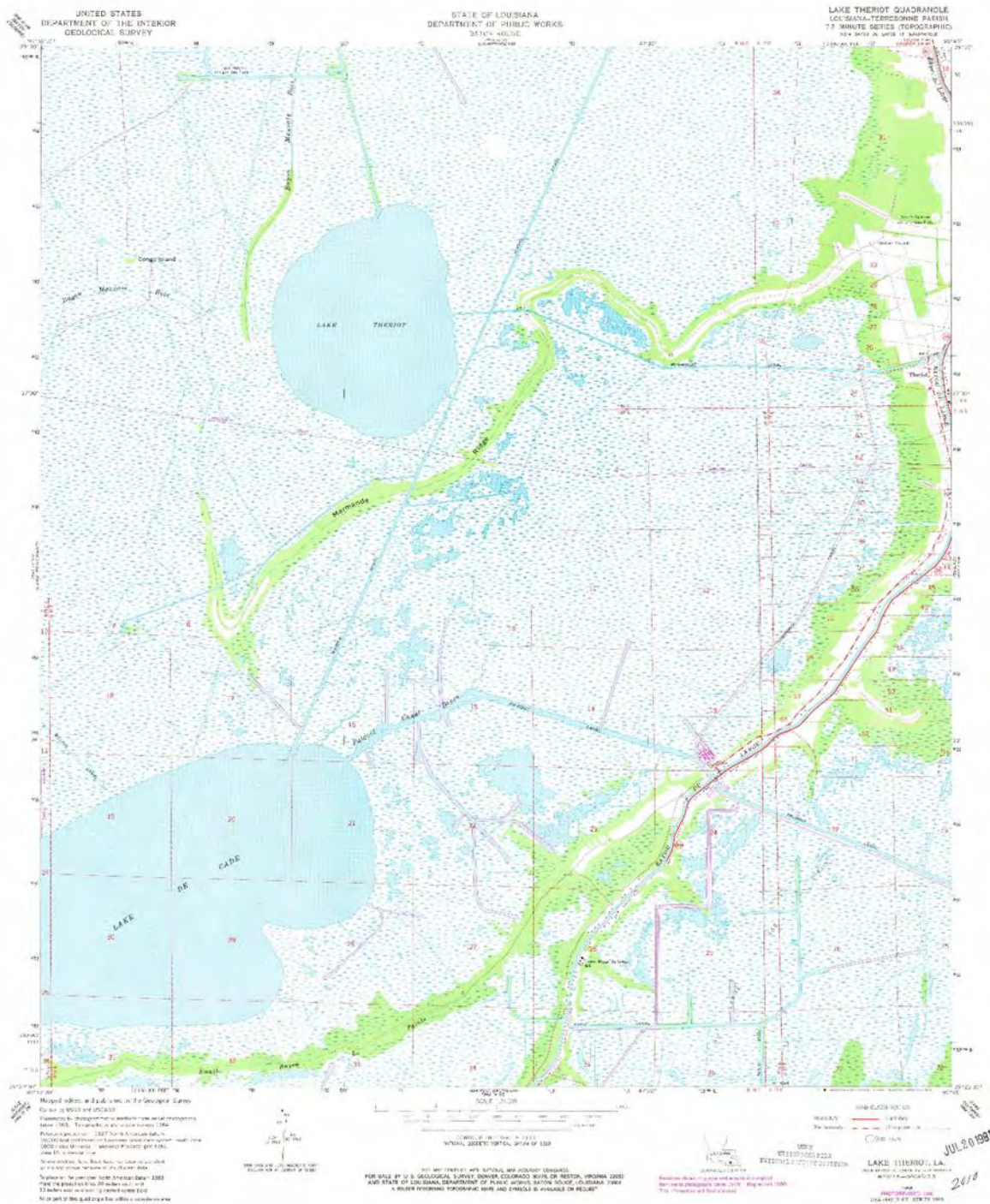
**1980 Reach BA Area Topographic Map**





1980 Reach BA & A (north) Topographic Map





1980 Reach A Topographic Map – South

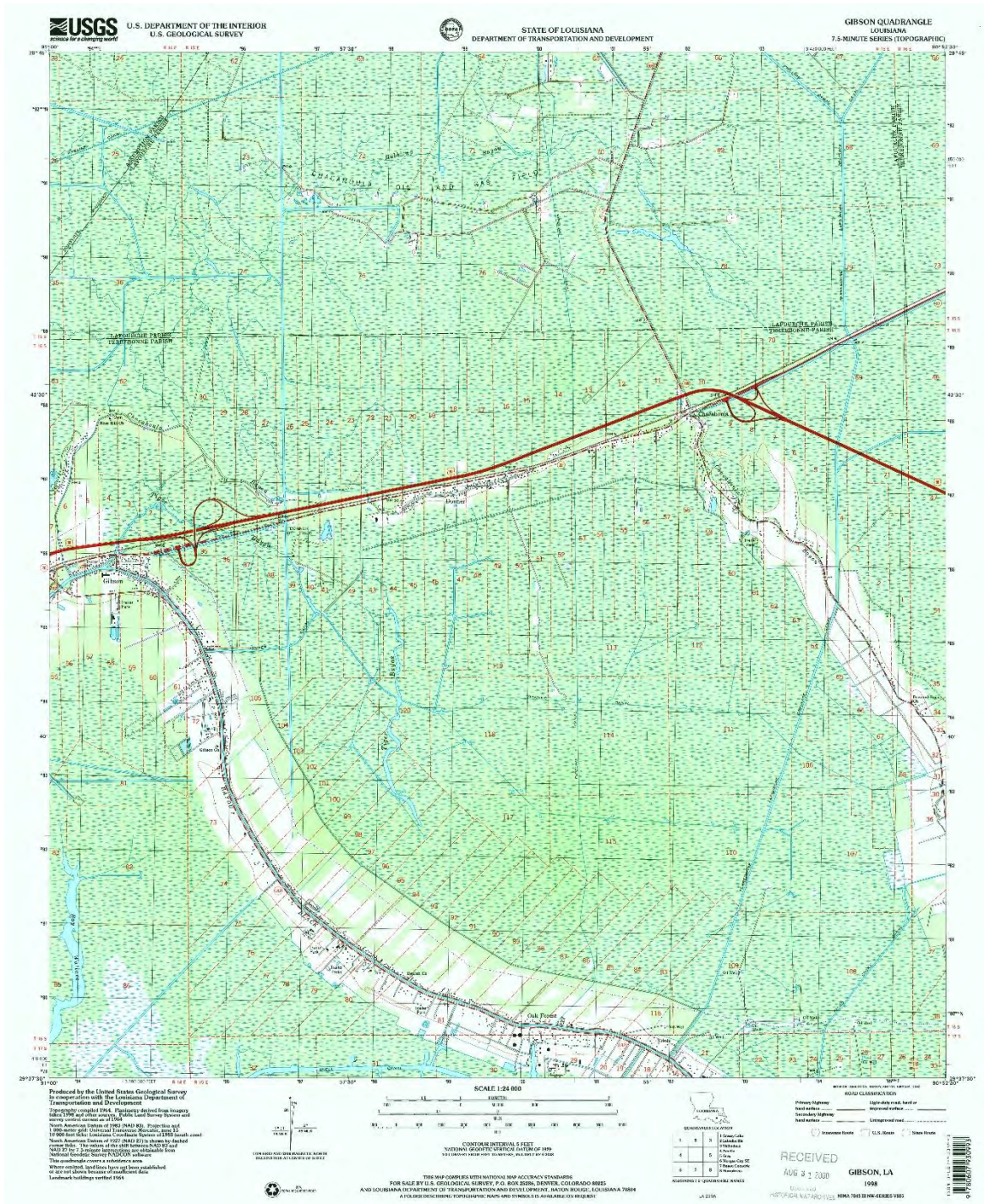






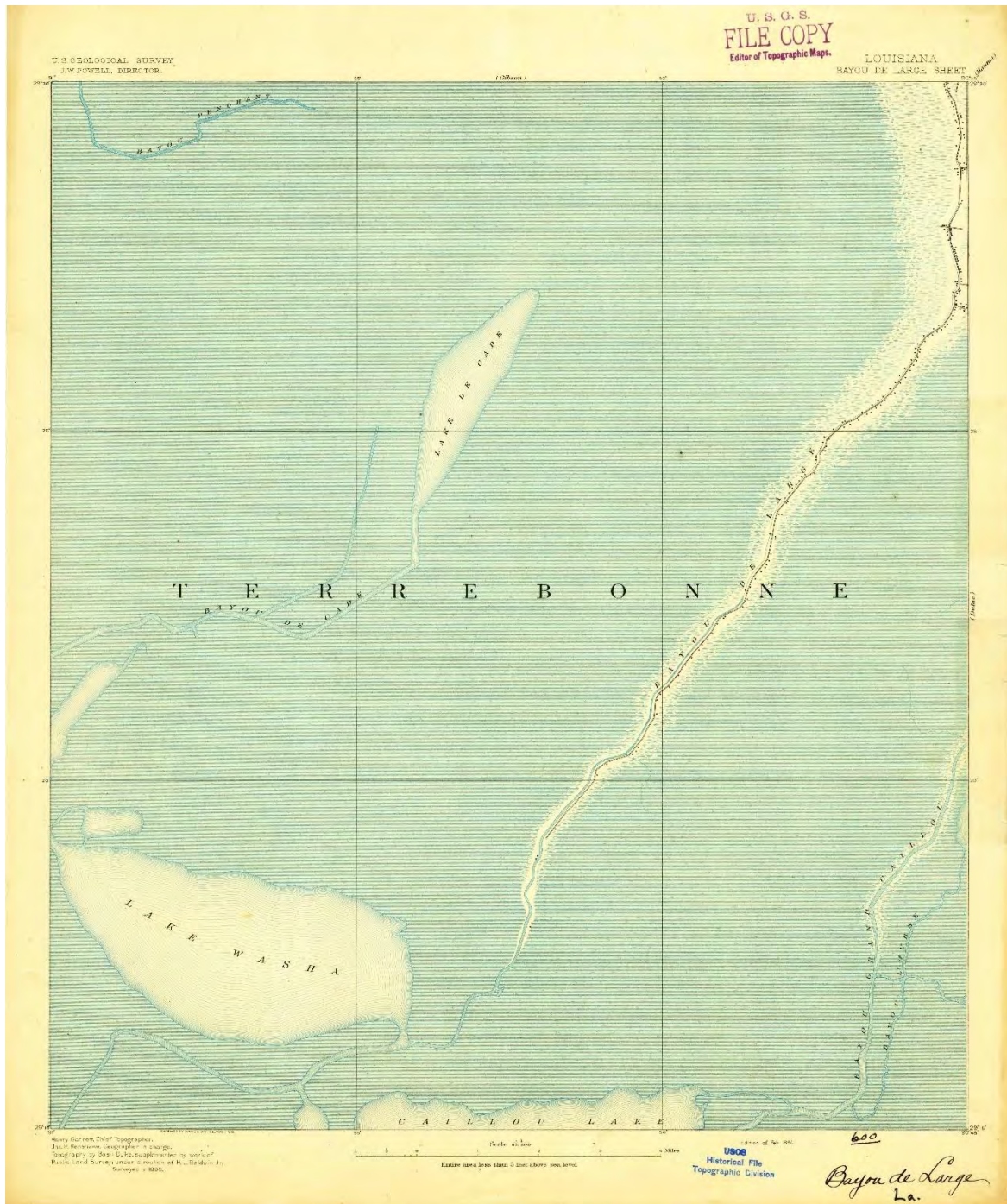






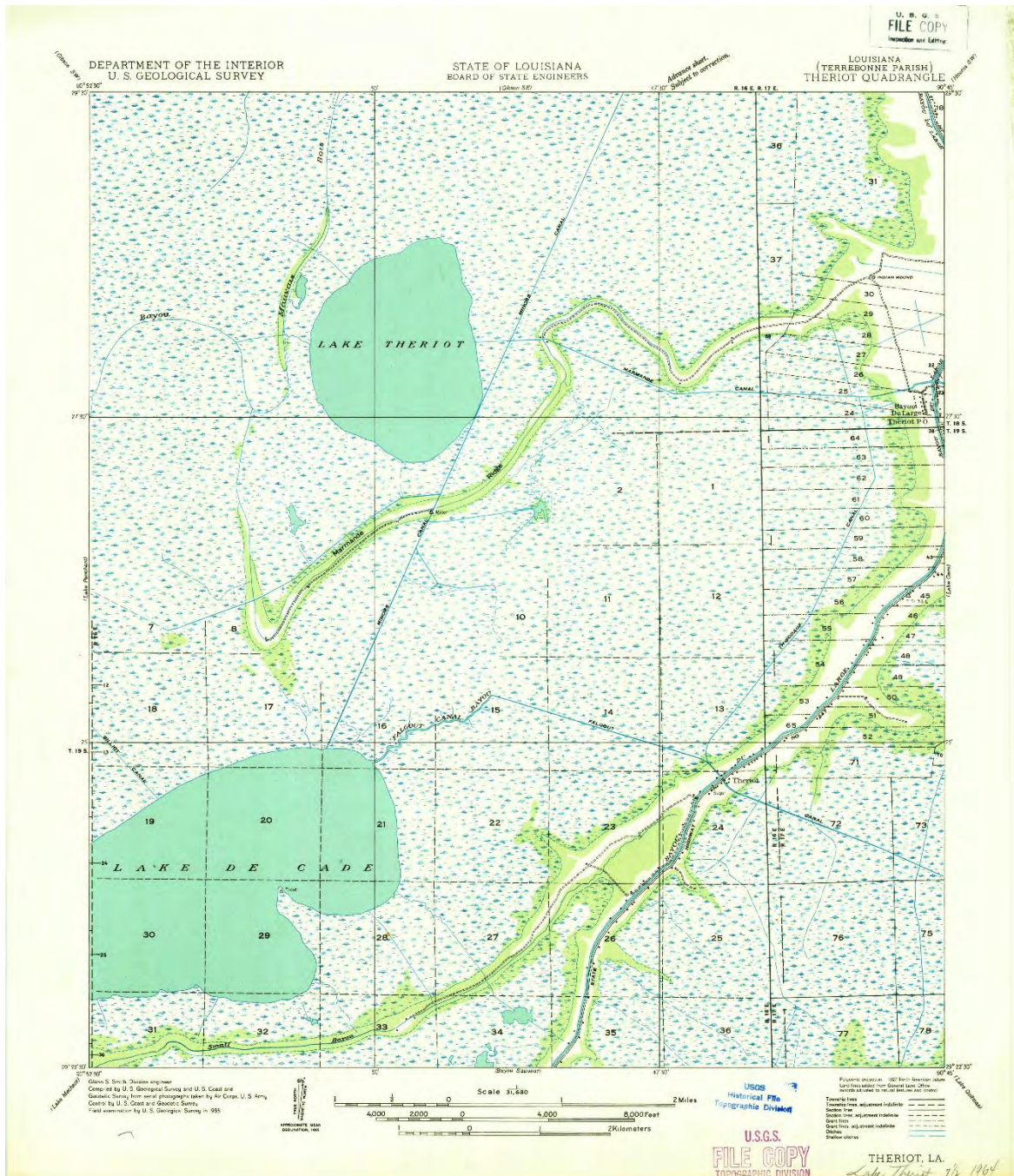
1998 Reach BA Area Topographic Map



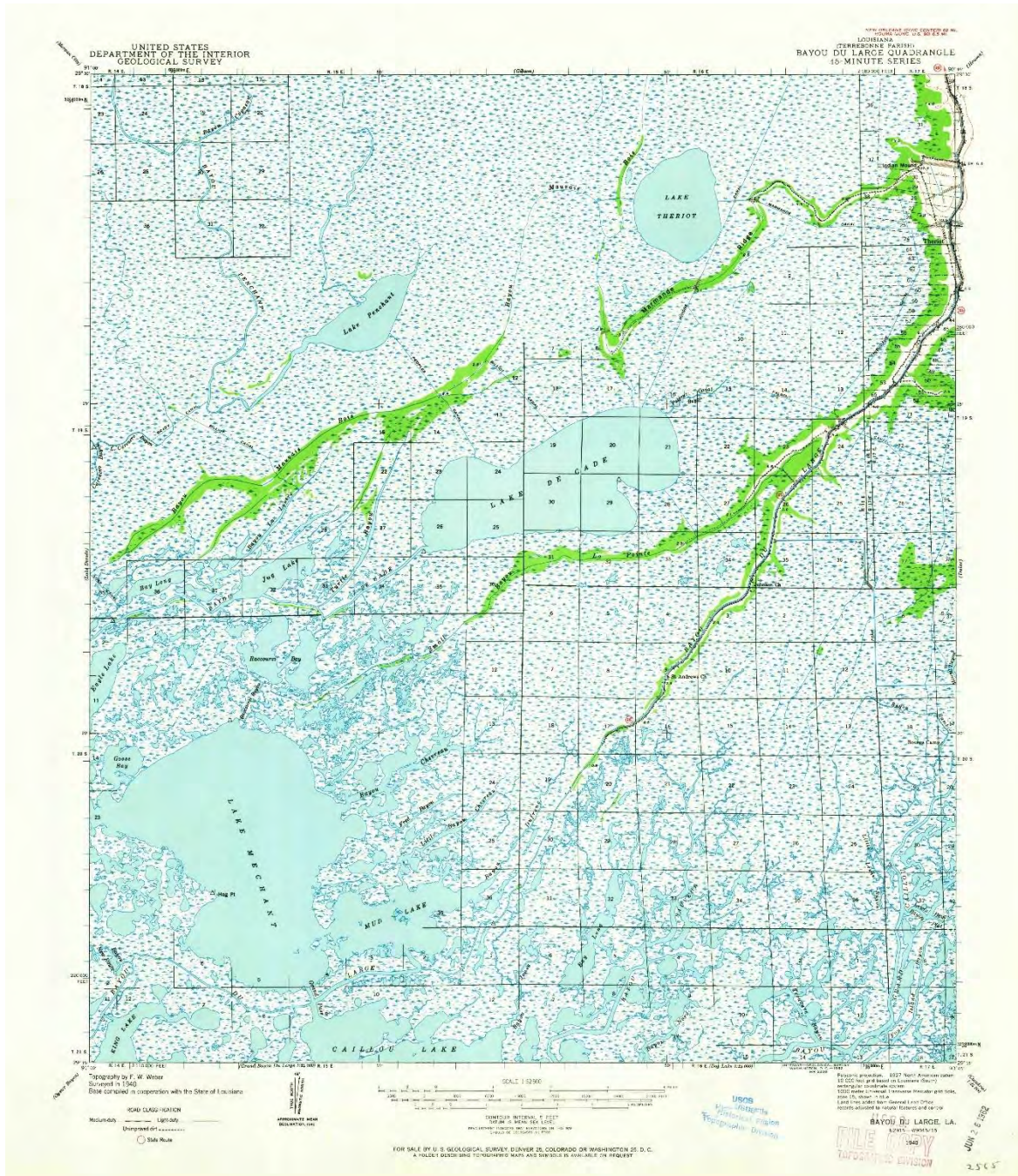


1894 Reach B, E, & F Topographic Map



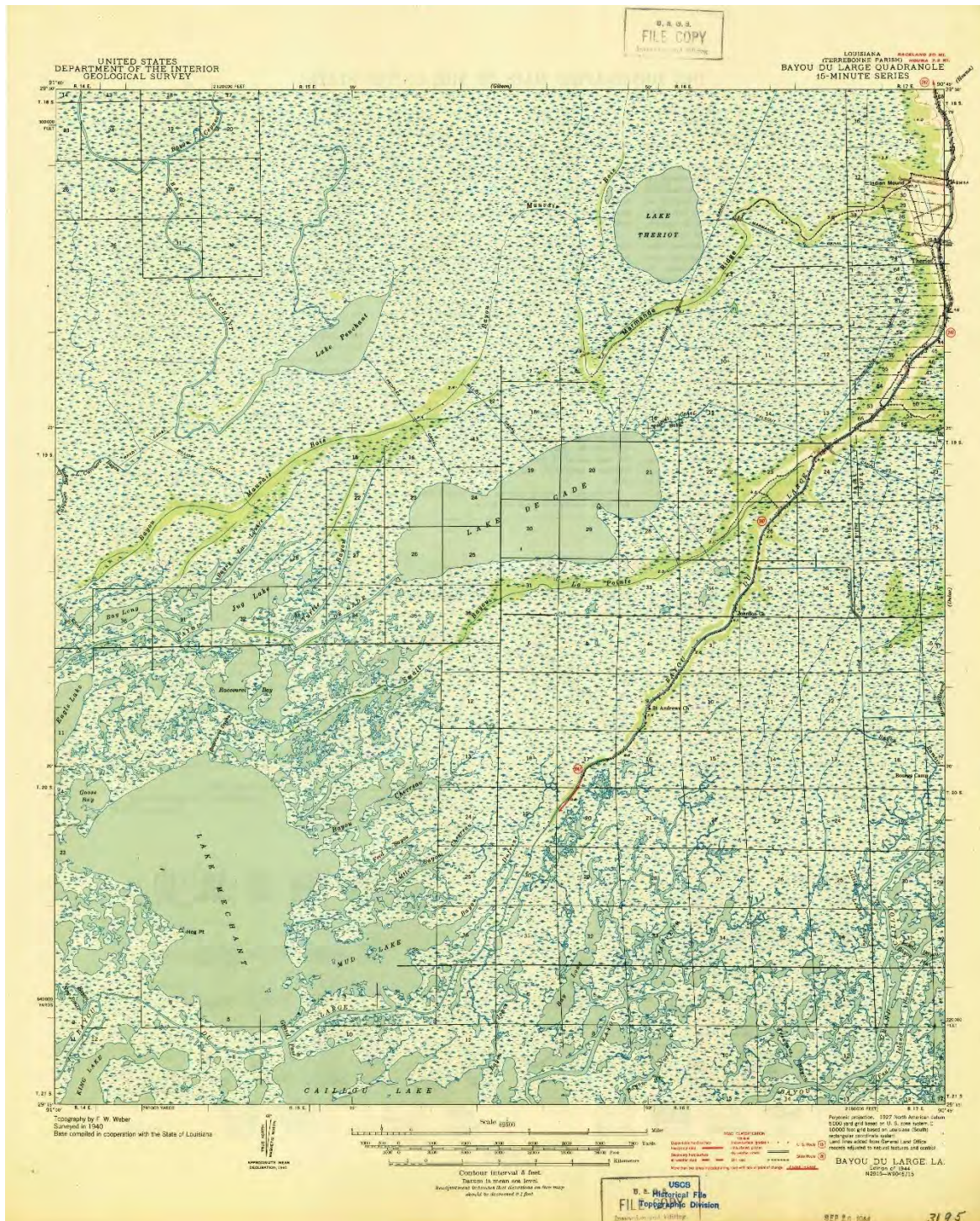






1940 Reach B & E Topographic Map





1944 Reach B & E Topographic Map





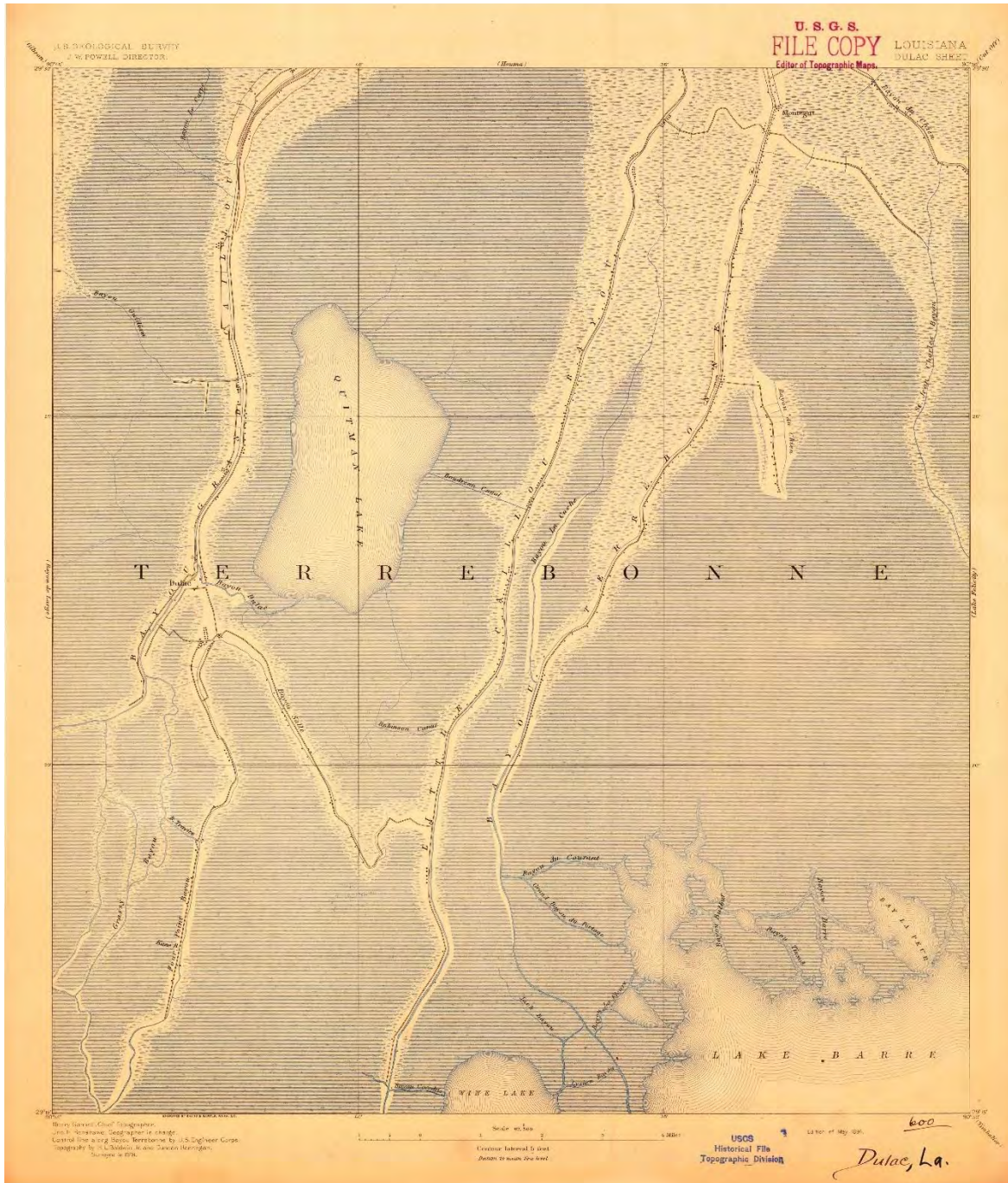






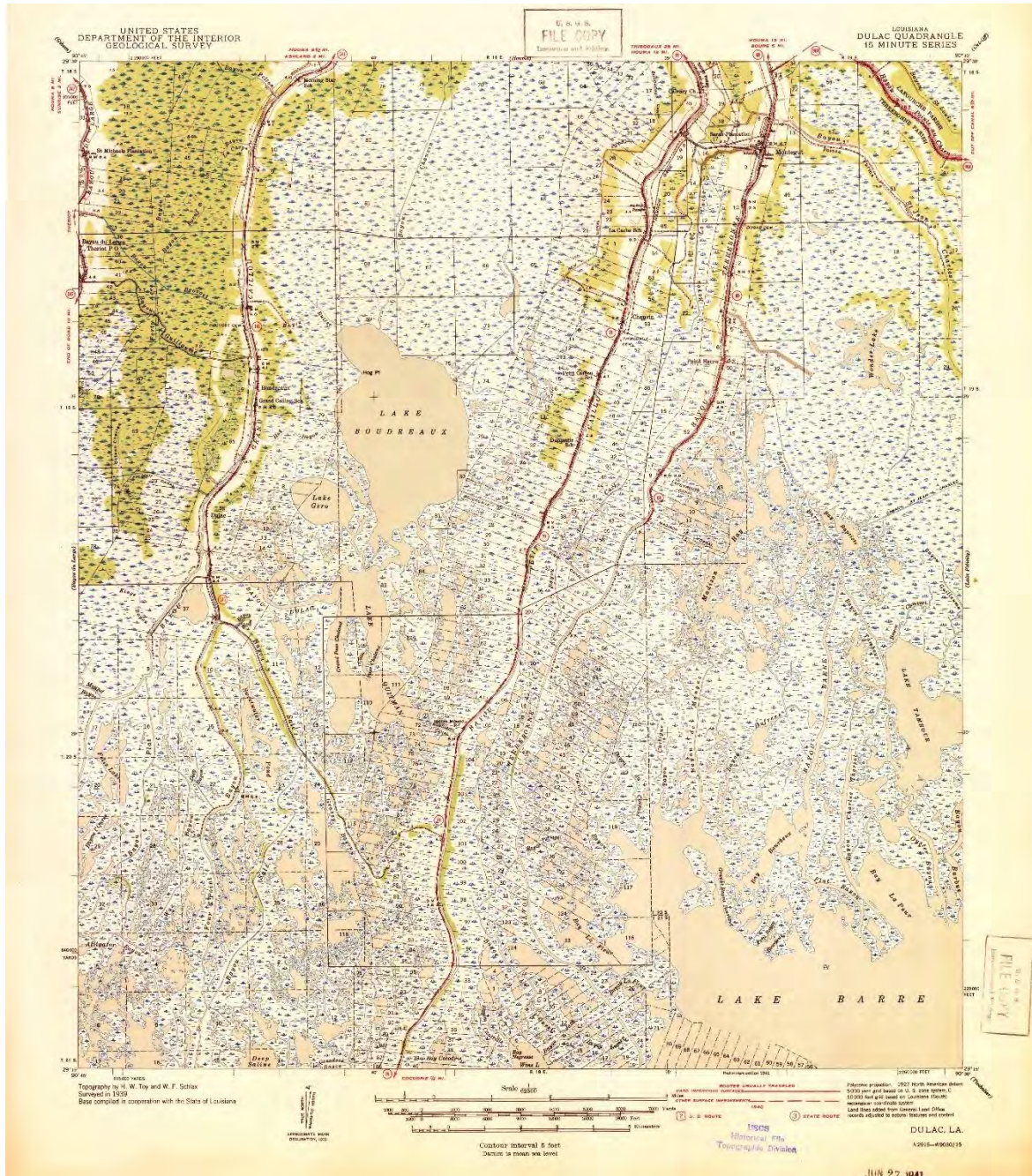






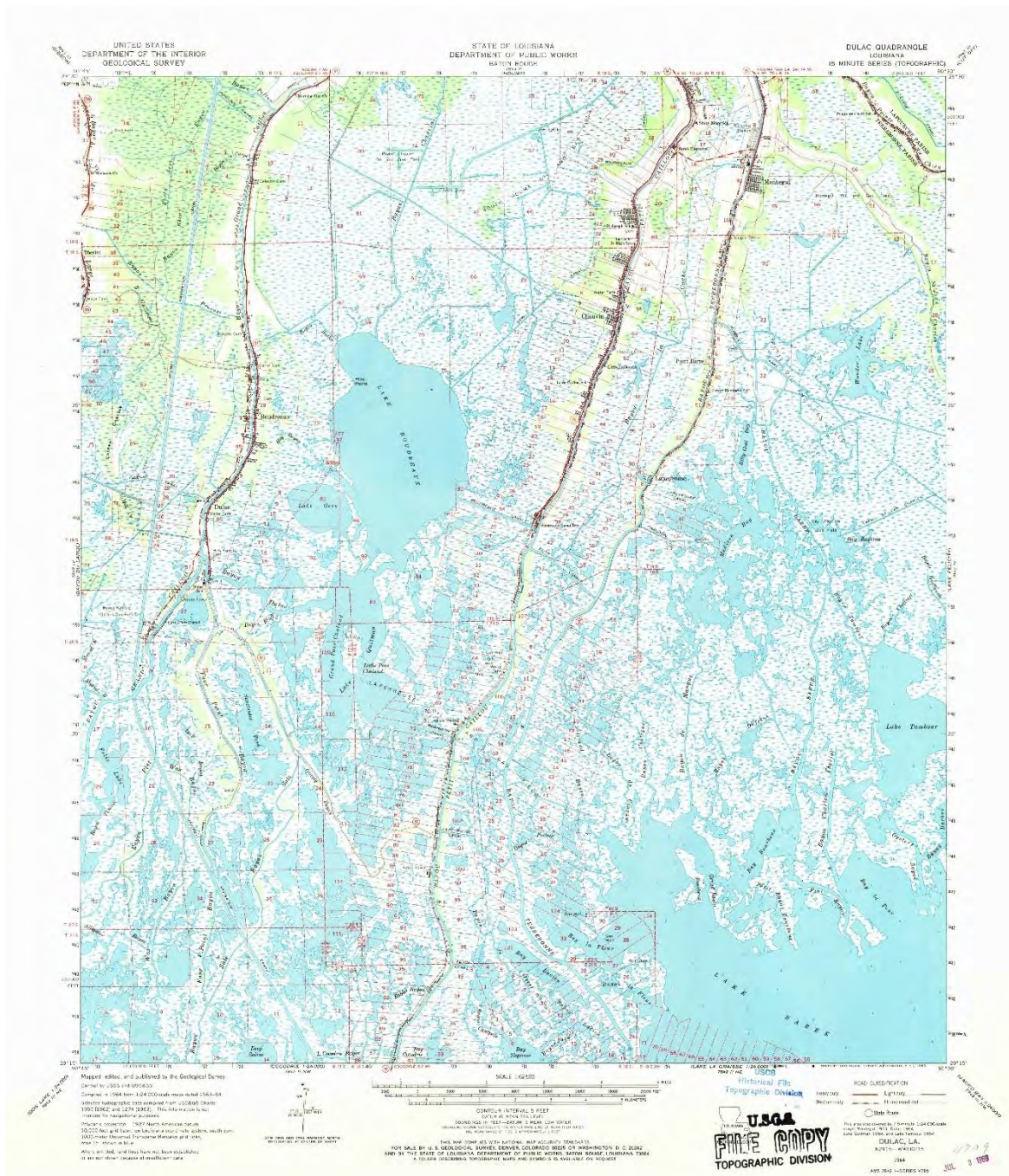
1894 Reach F, G, & H Topographic Map



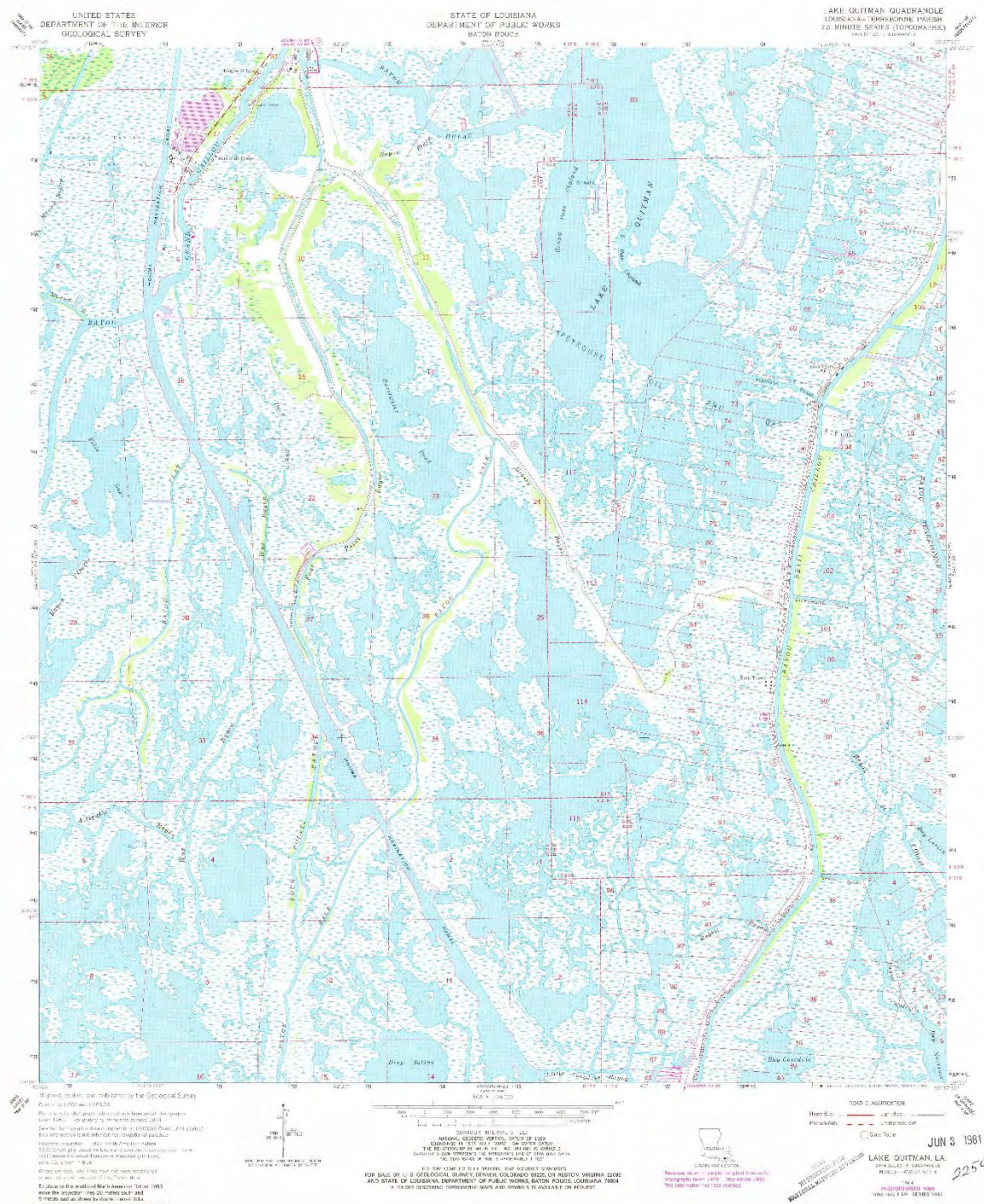


1941 Reach F, G, & H Topographic Map







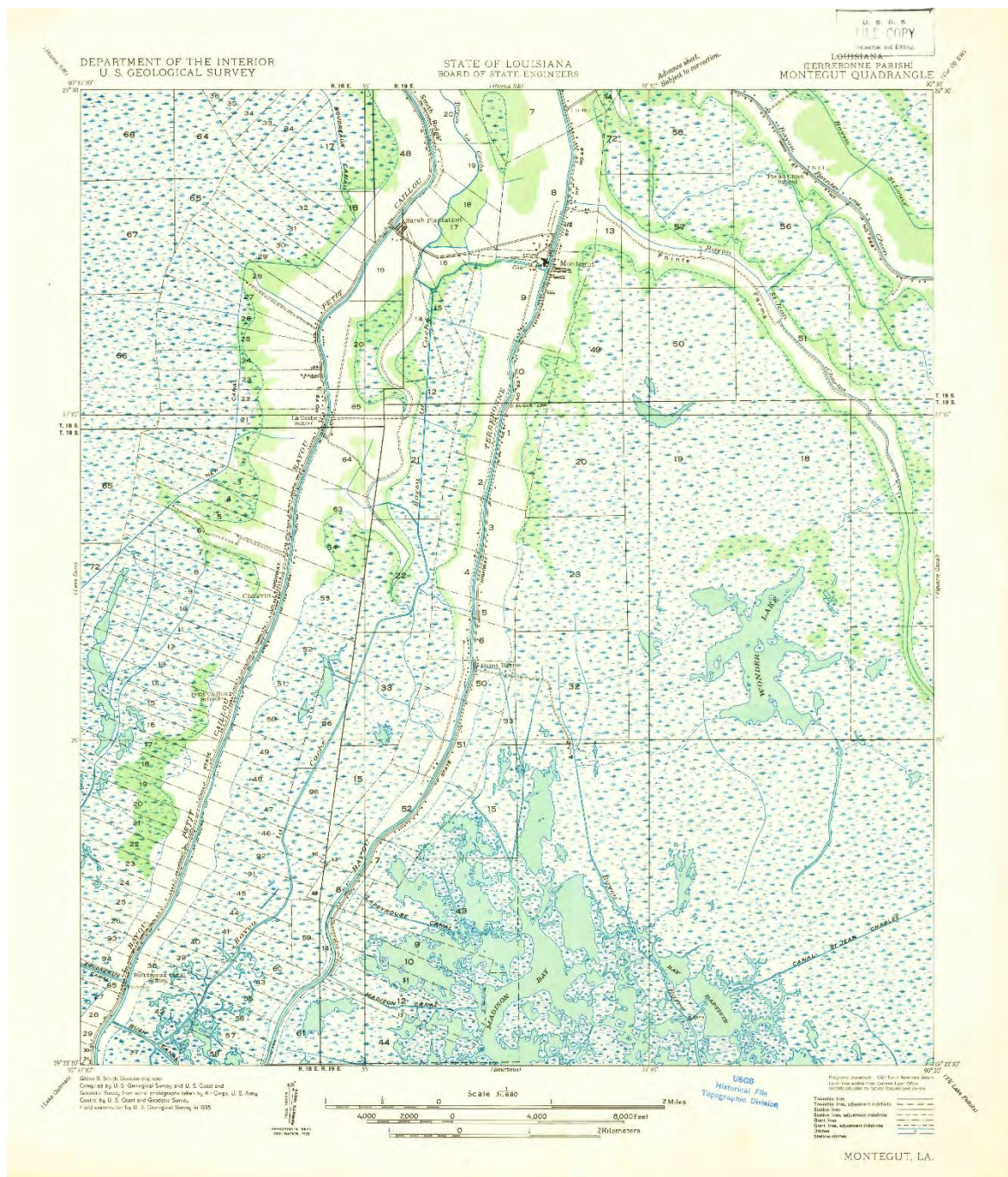


1980 Reach F, G, & H Topographic Map

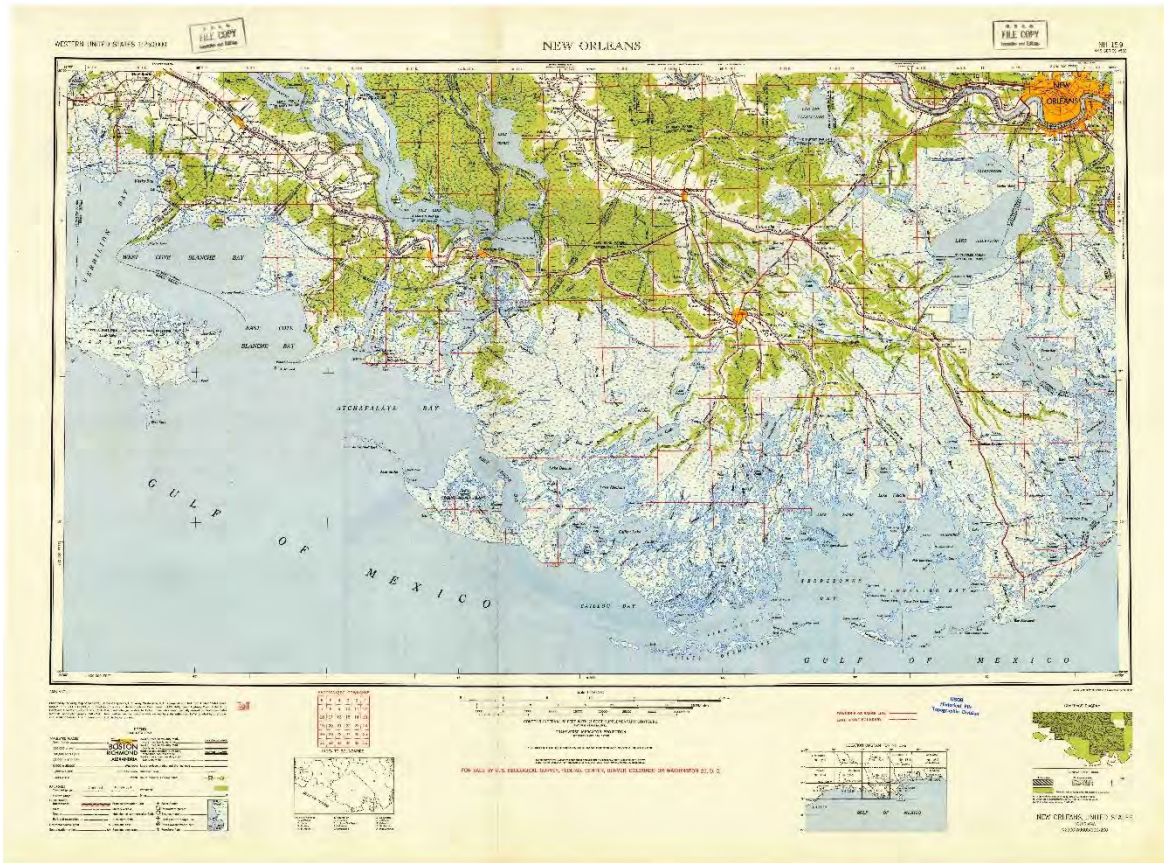






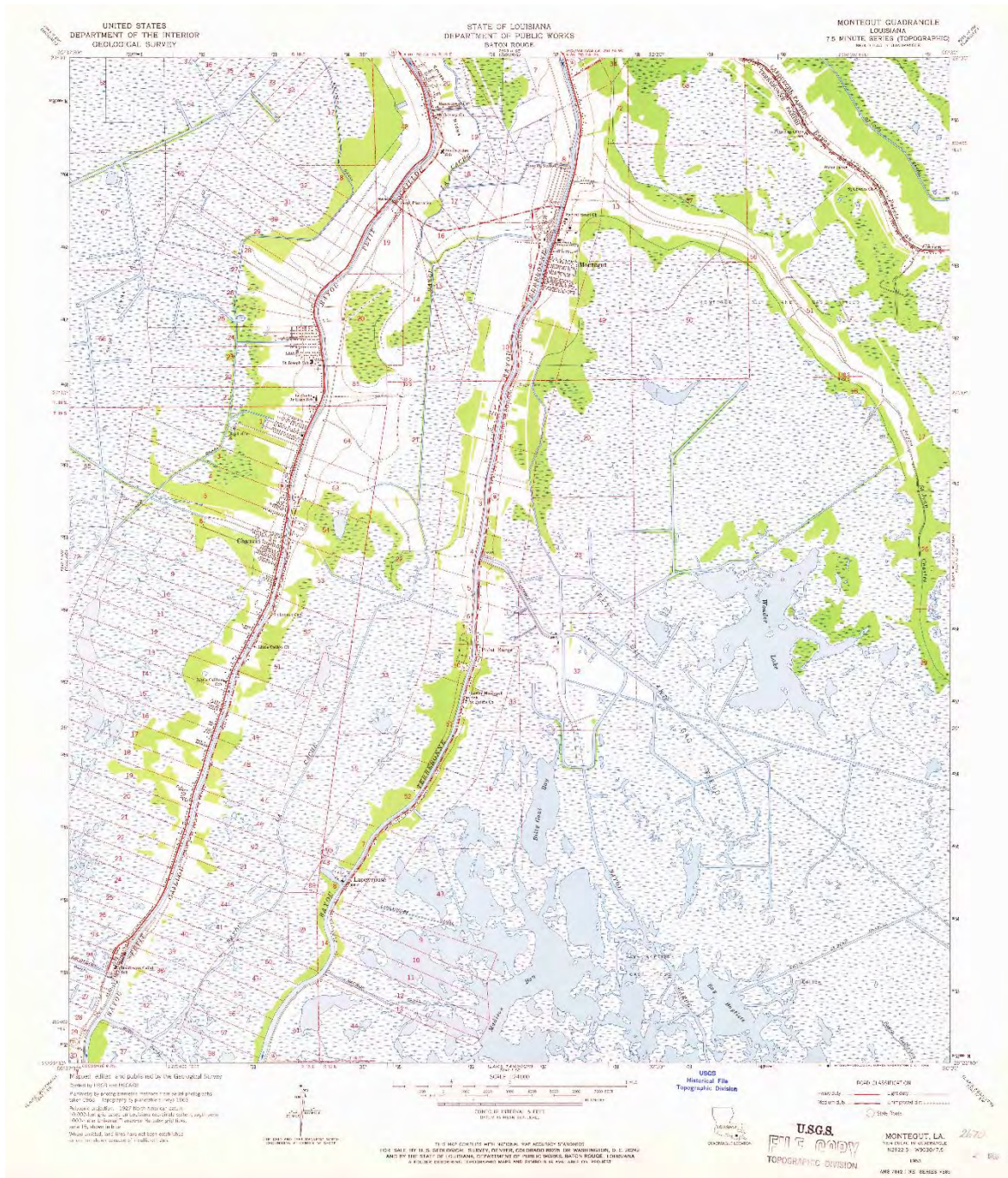






1945 Reach I & J Topographic Map









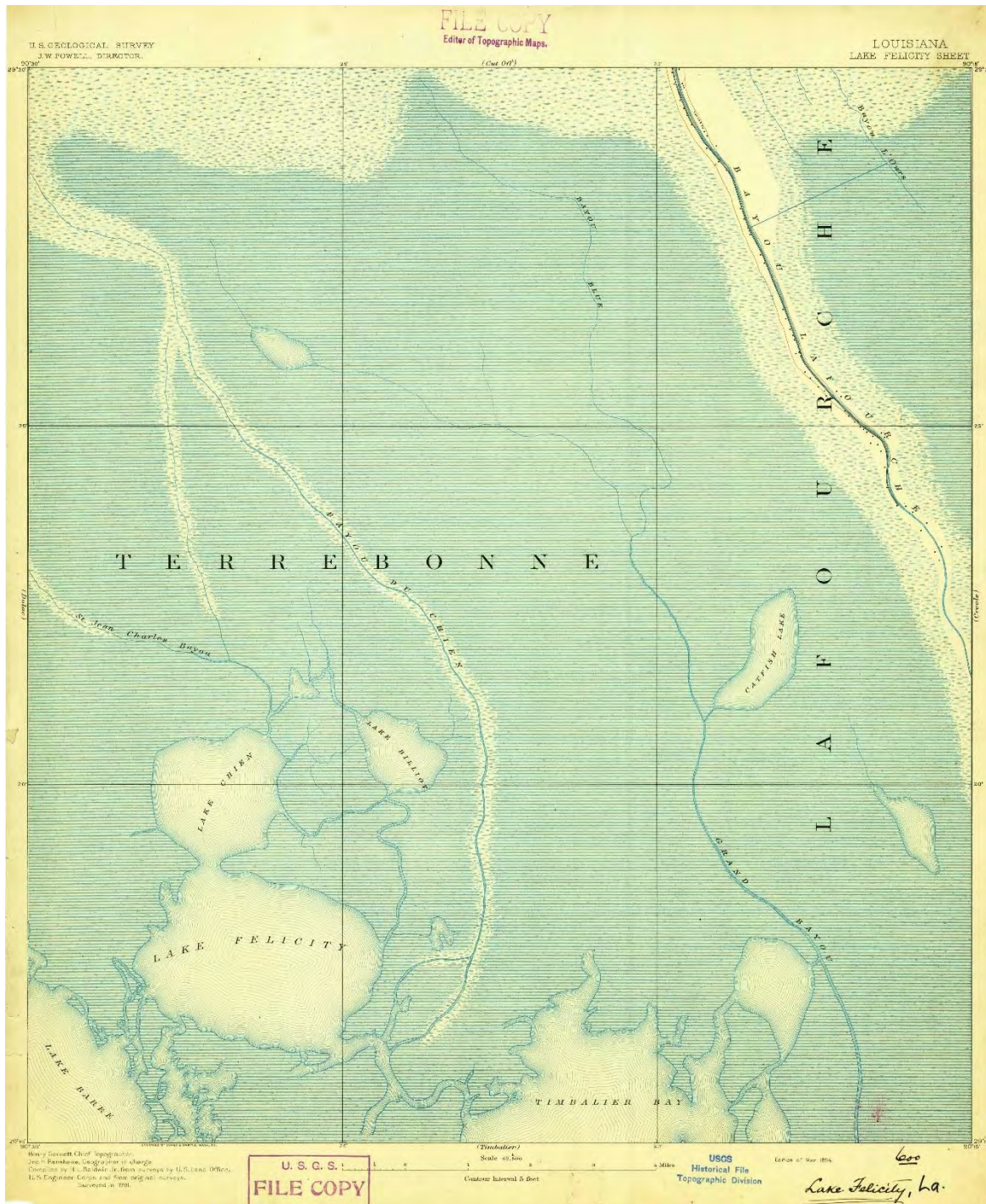








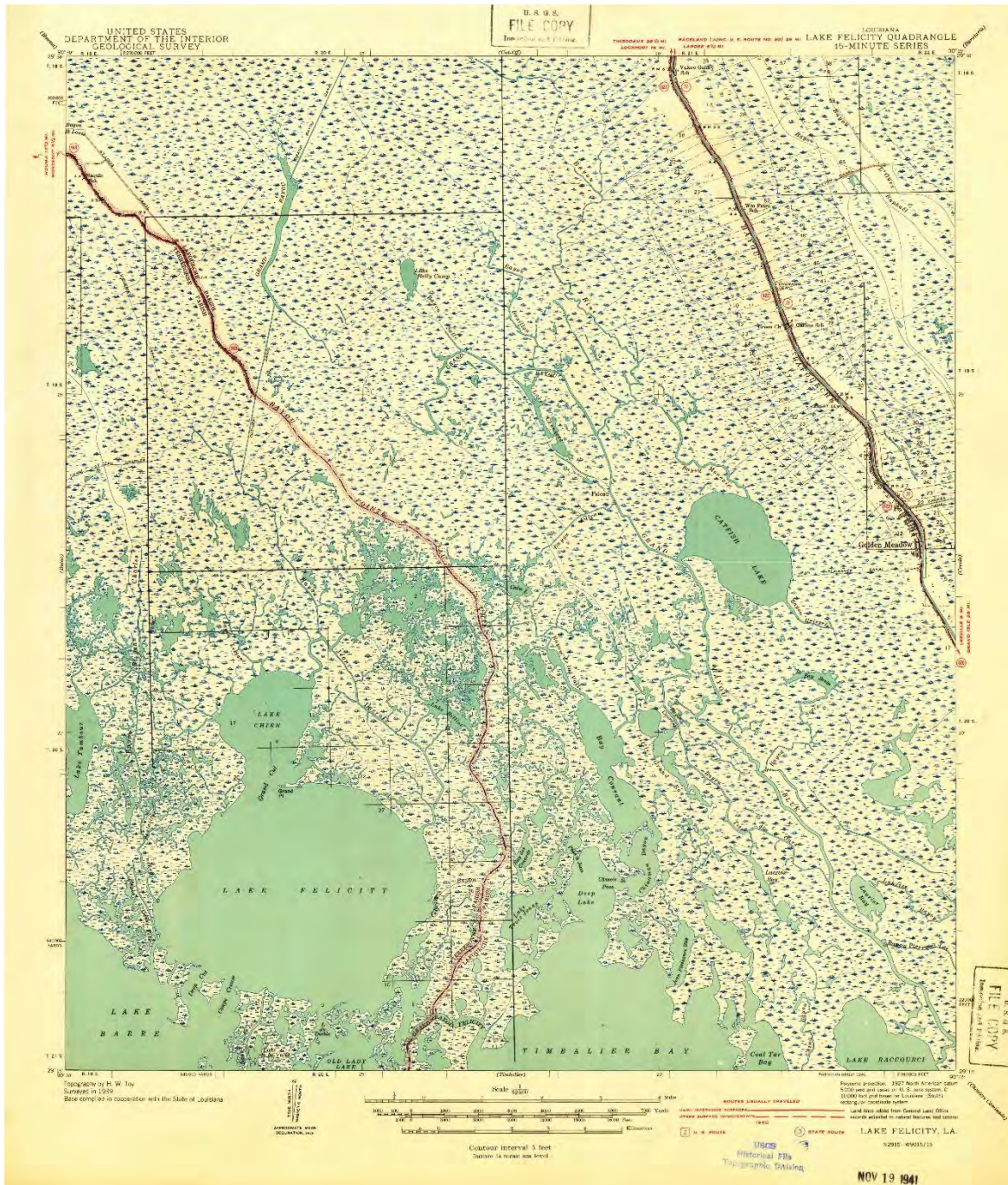






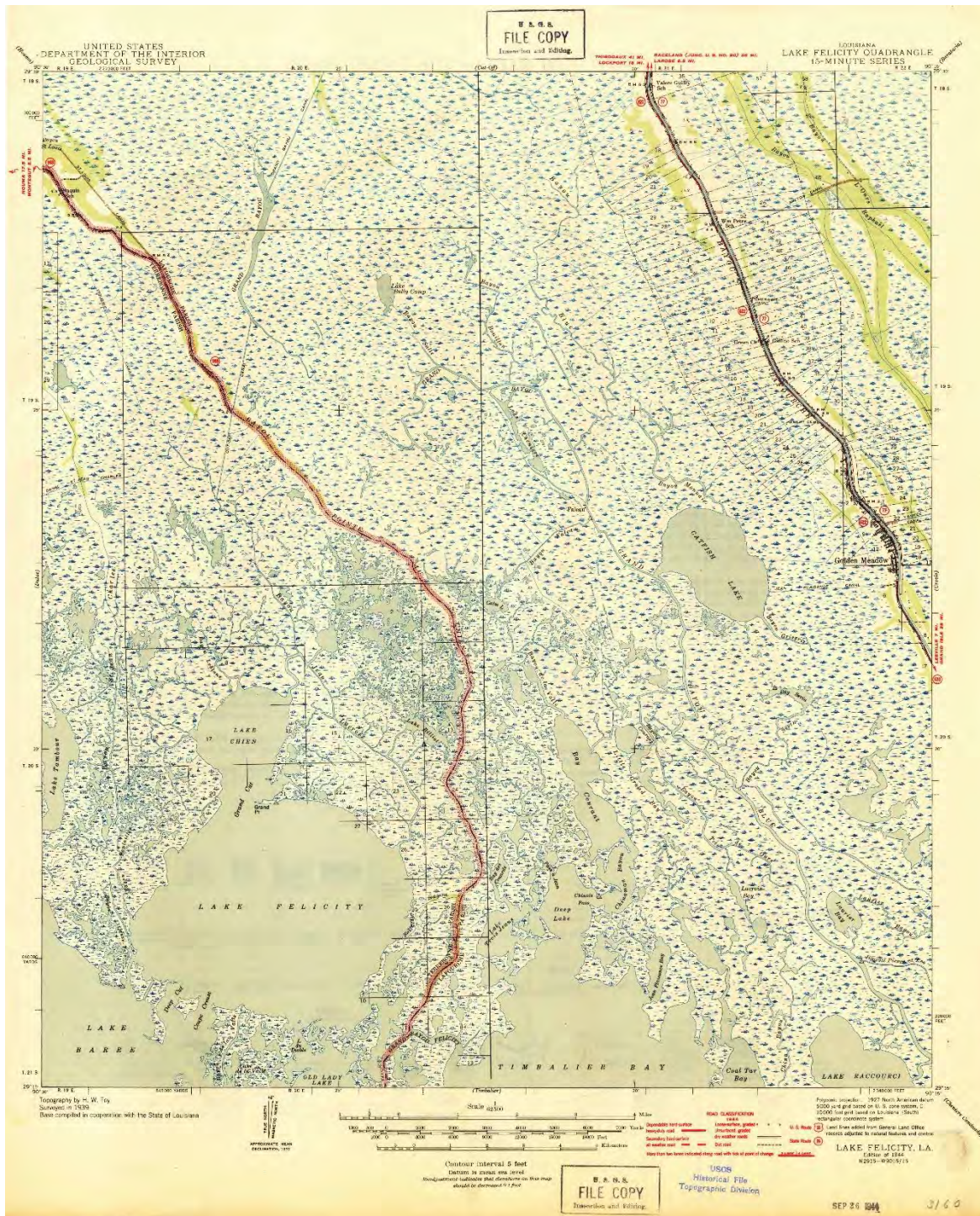






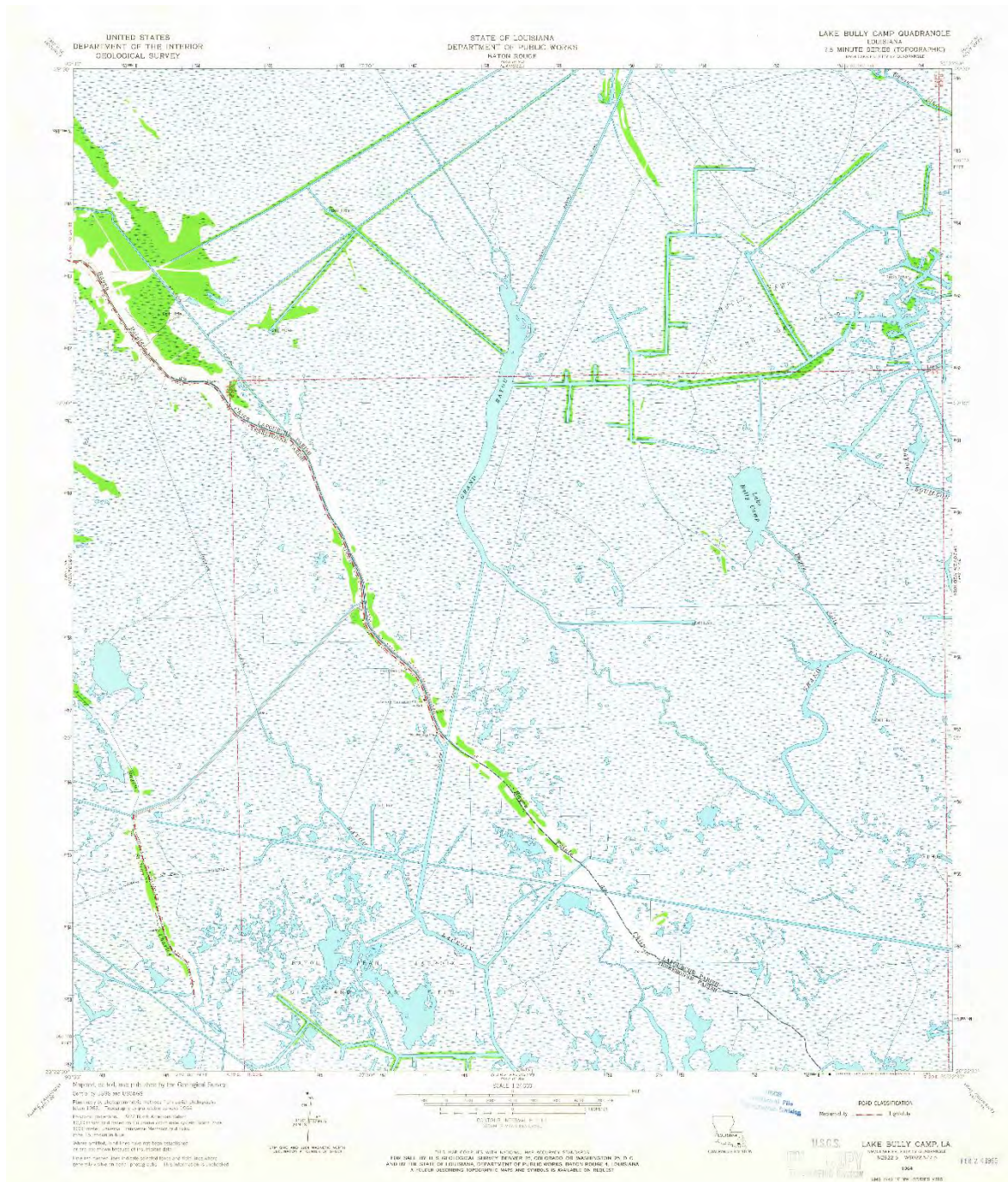
1941 Reach K Topographic Map





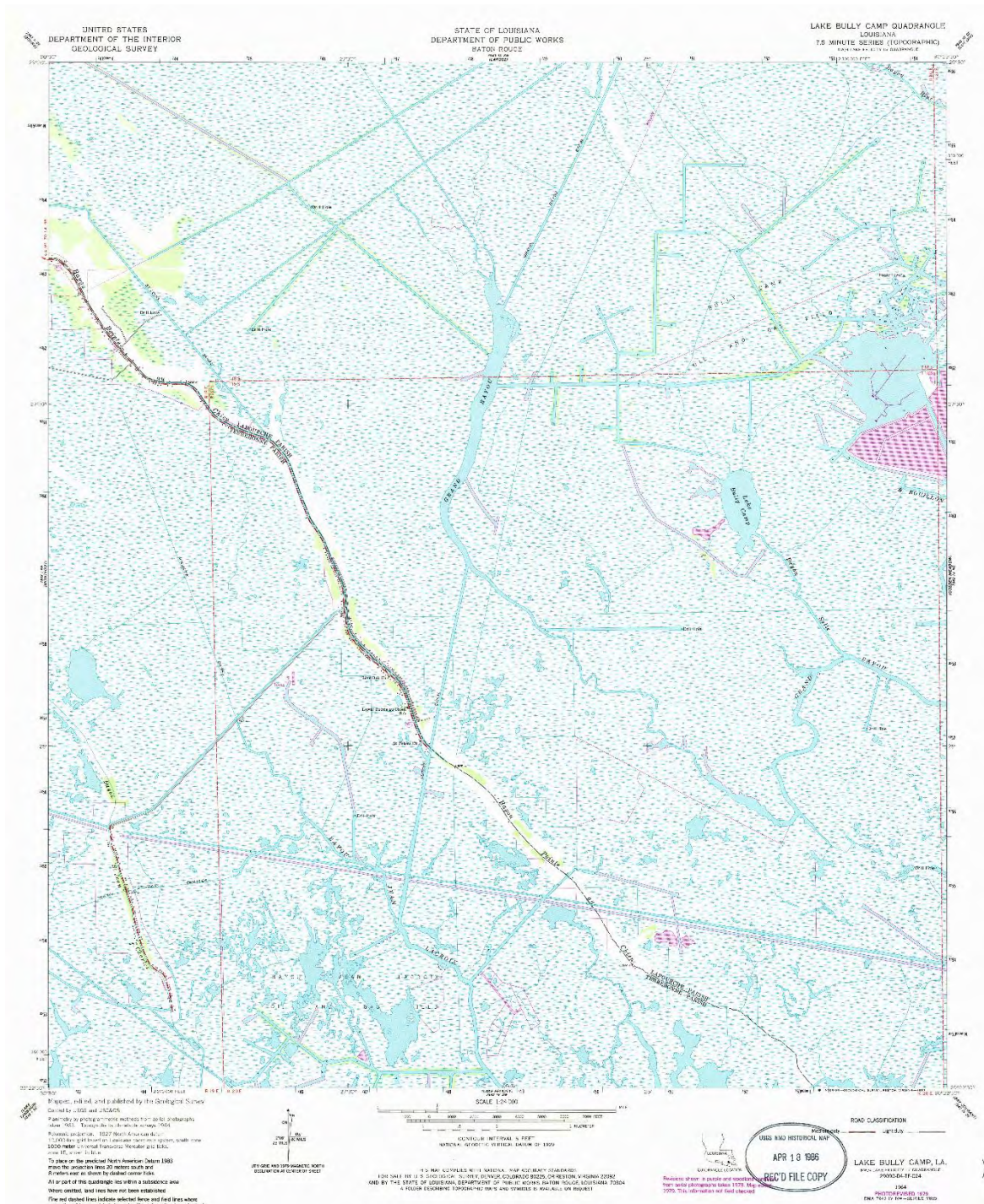
1944 Reach K Topographic Map





**1964 Reach K Topographic Map**



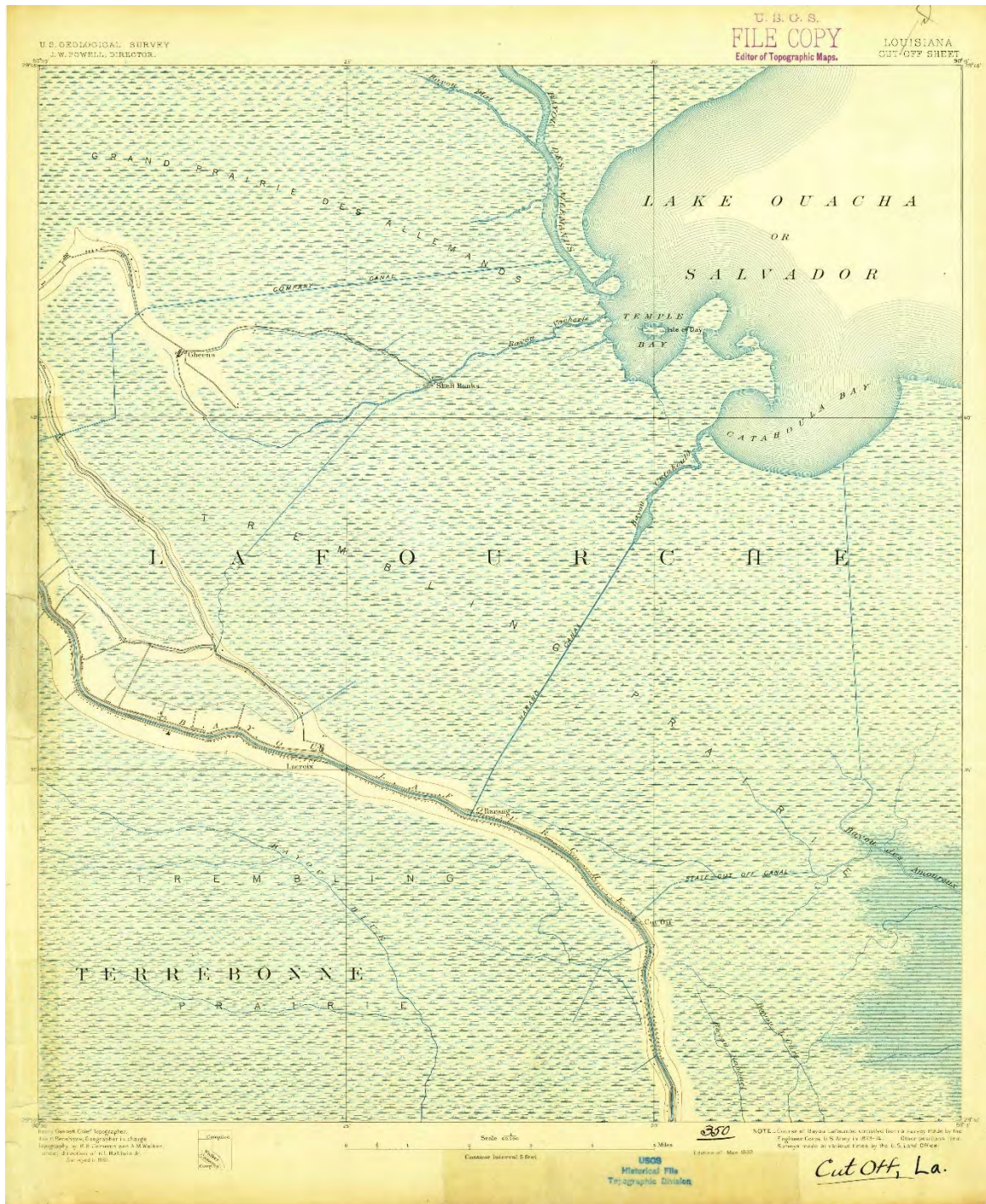


1979 Reach K Topographic Map





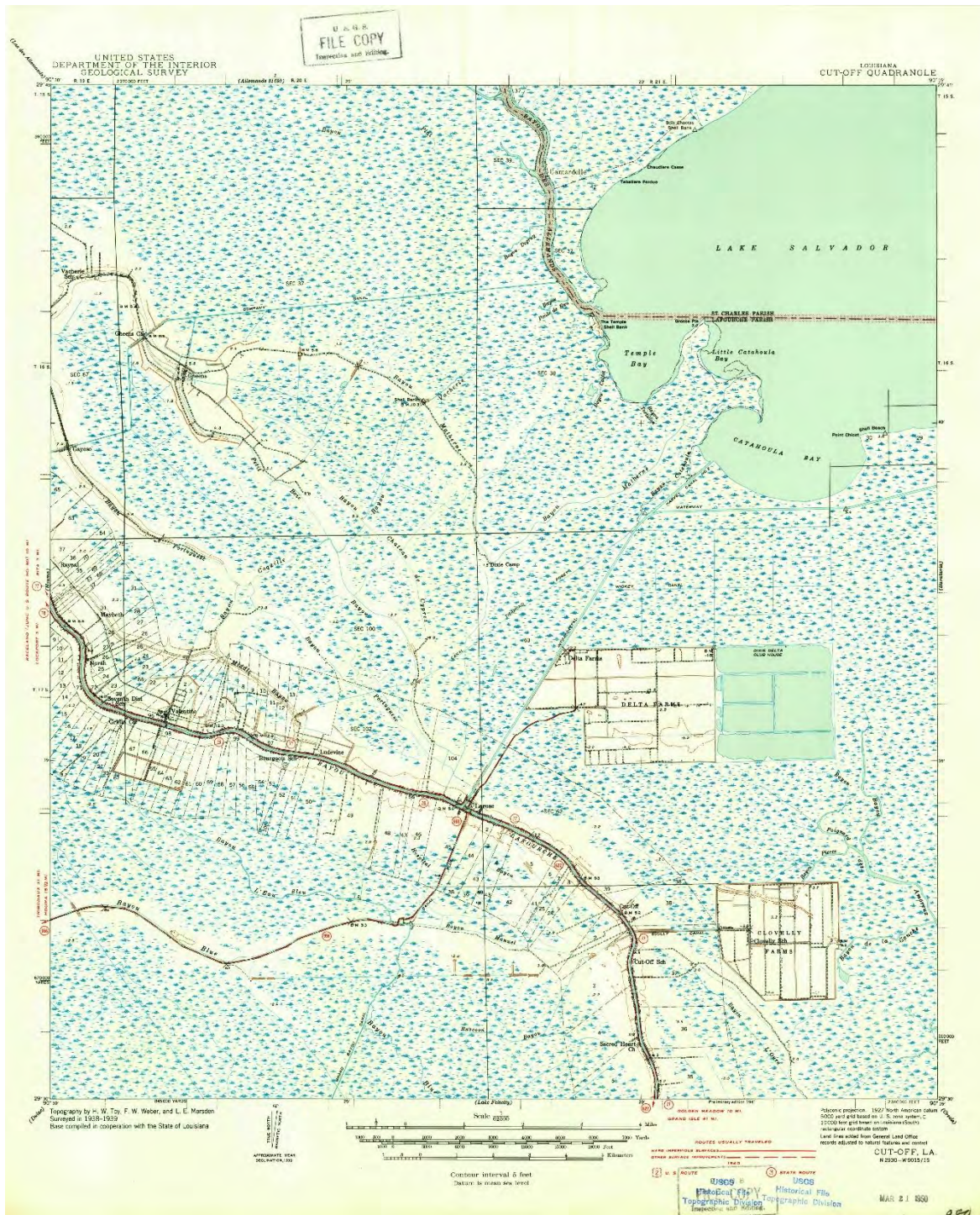












1941 Reach L Topographic Map





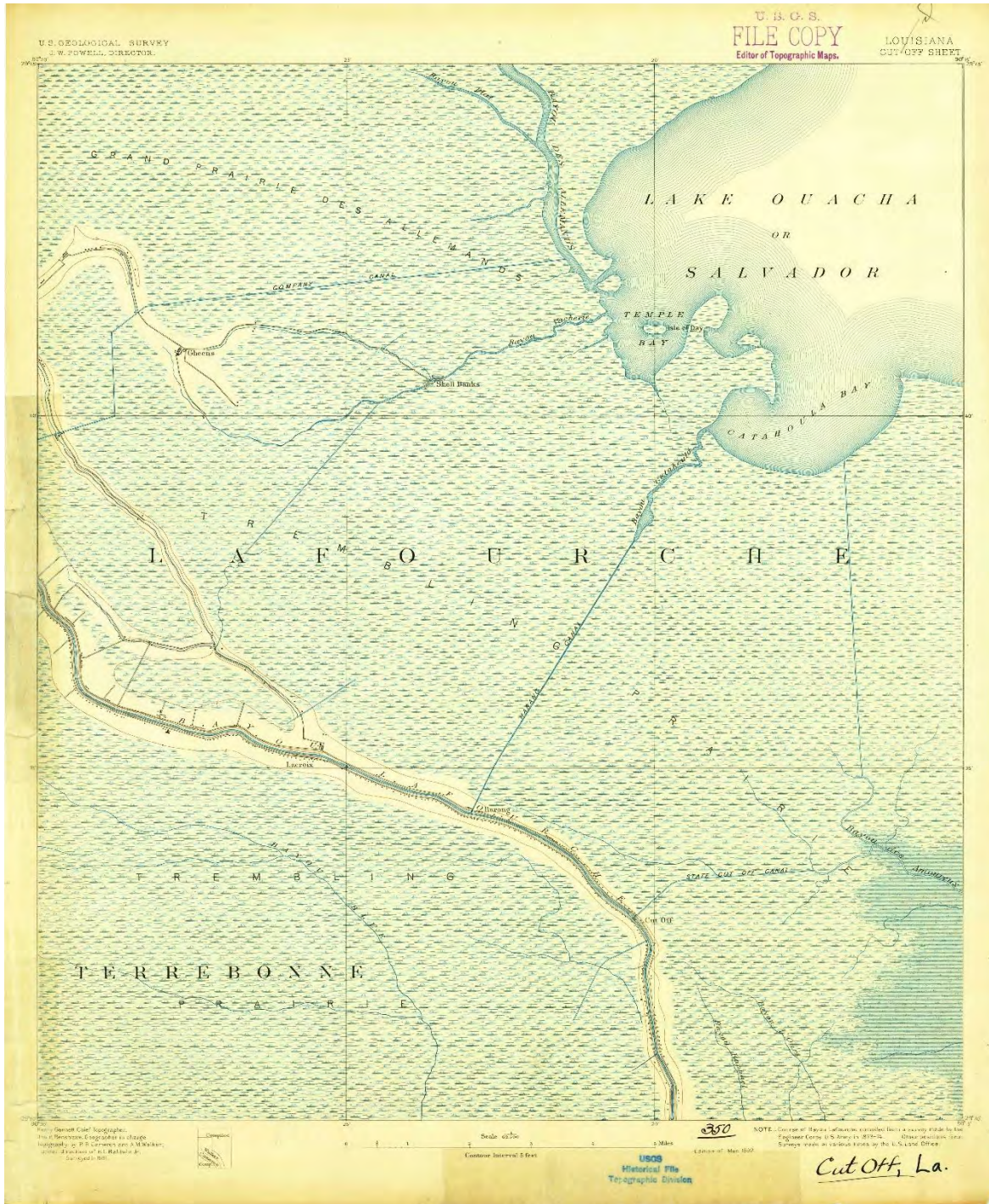






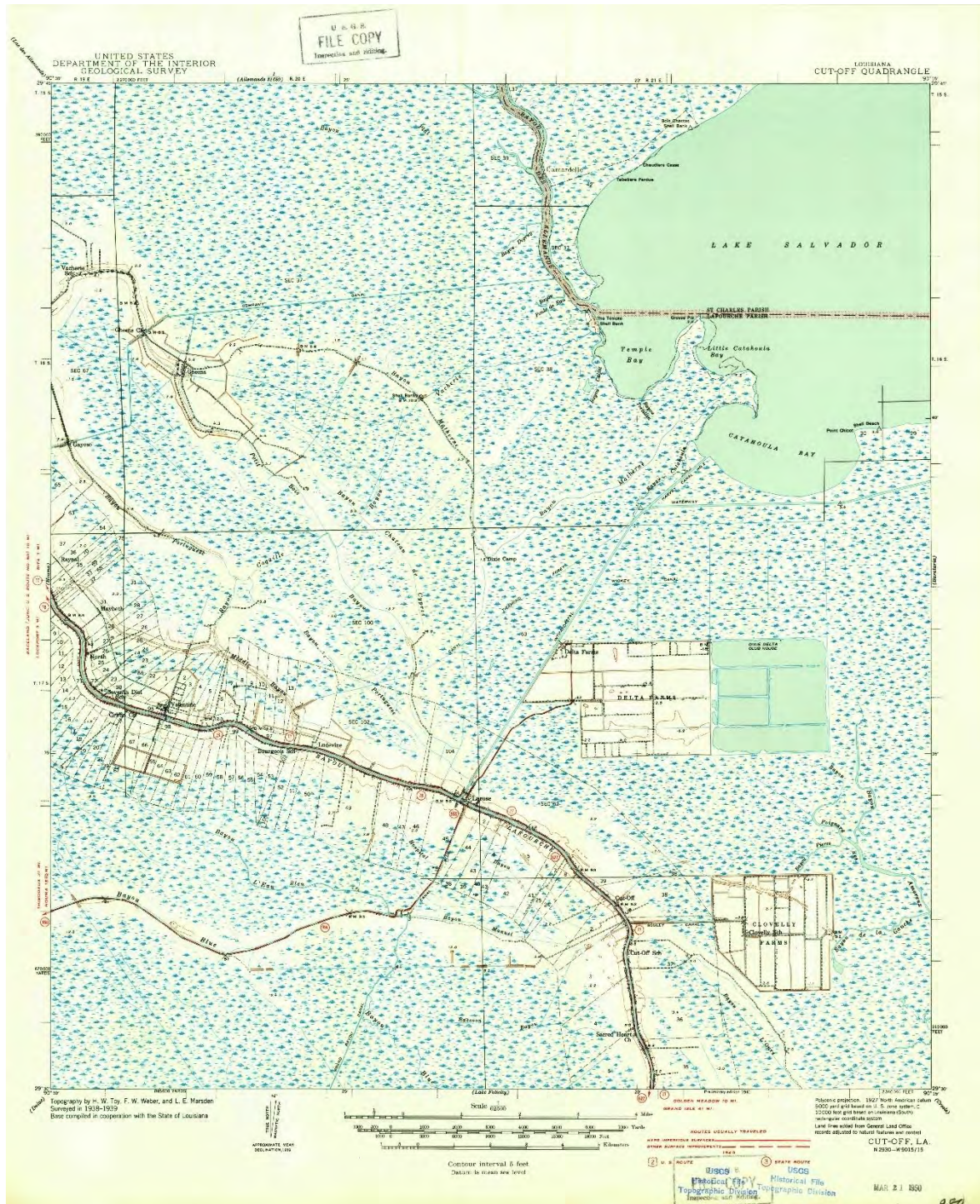






1892 Reach Larose to Golden Meadow Overlap





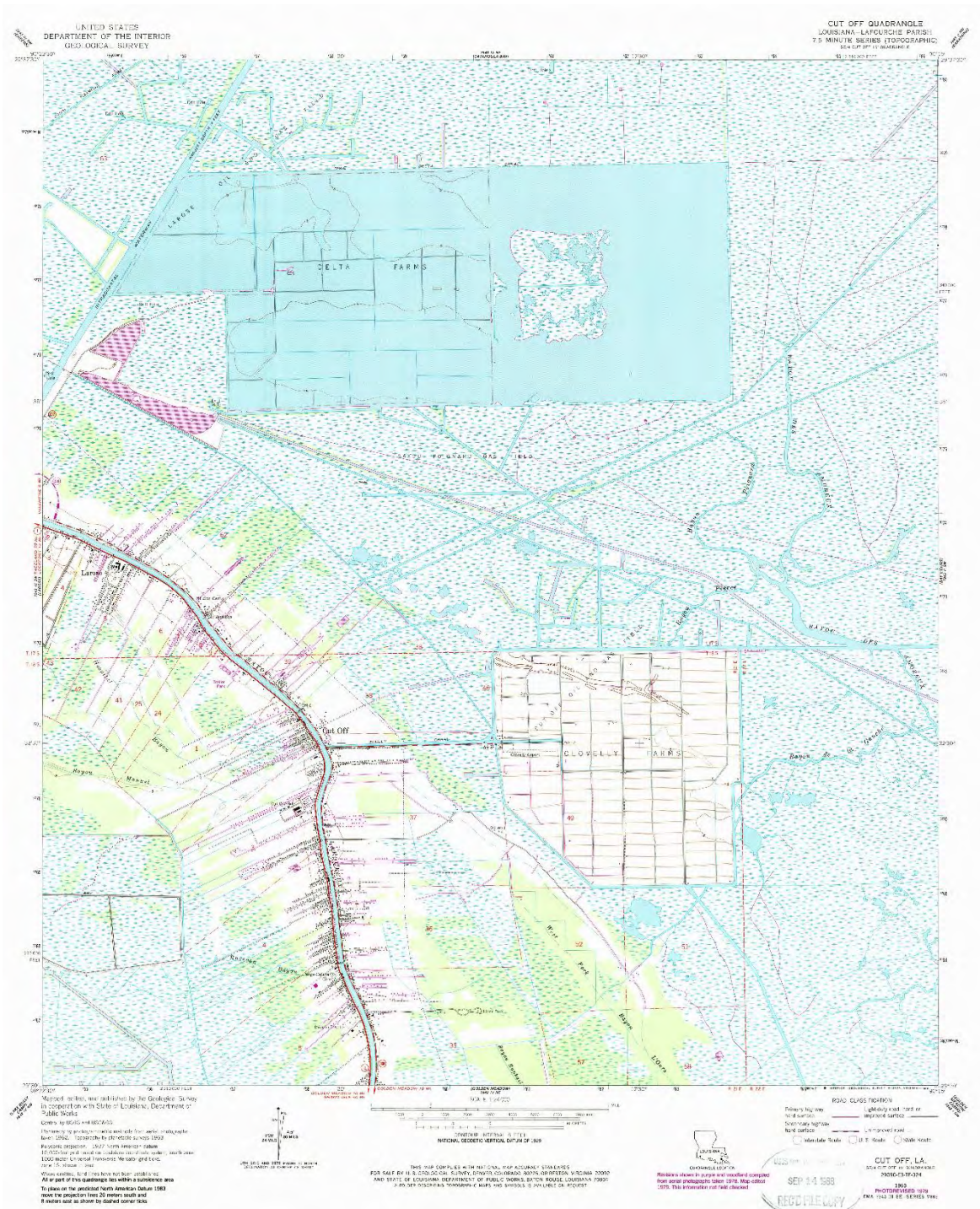




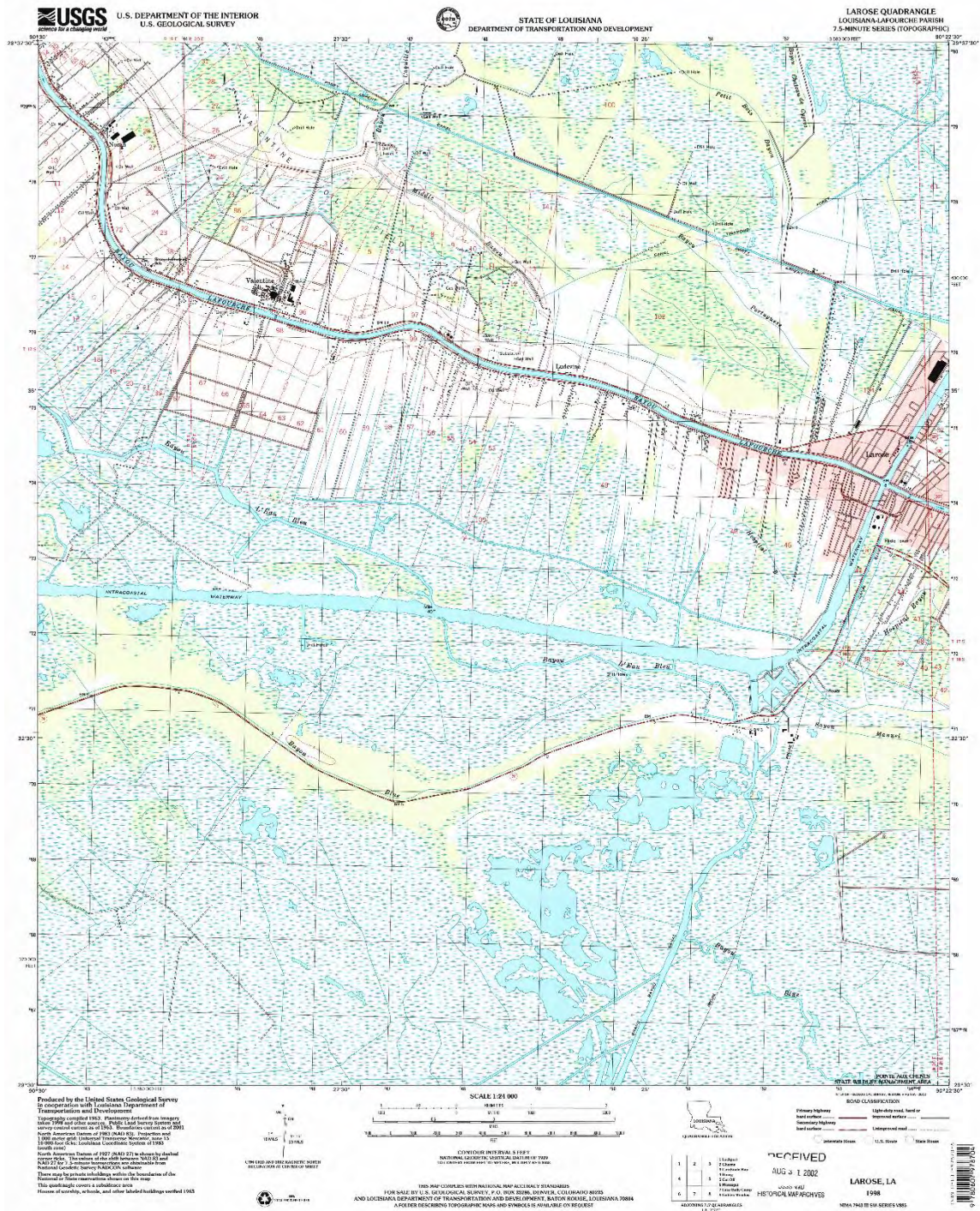






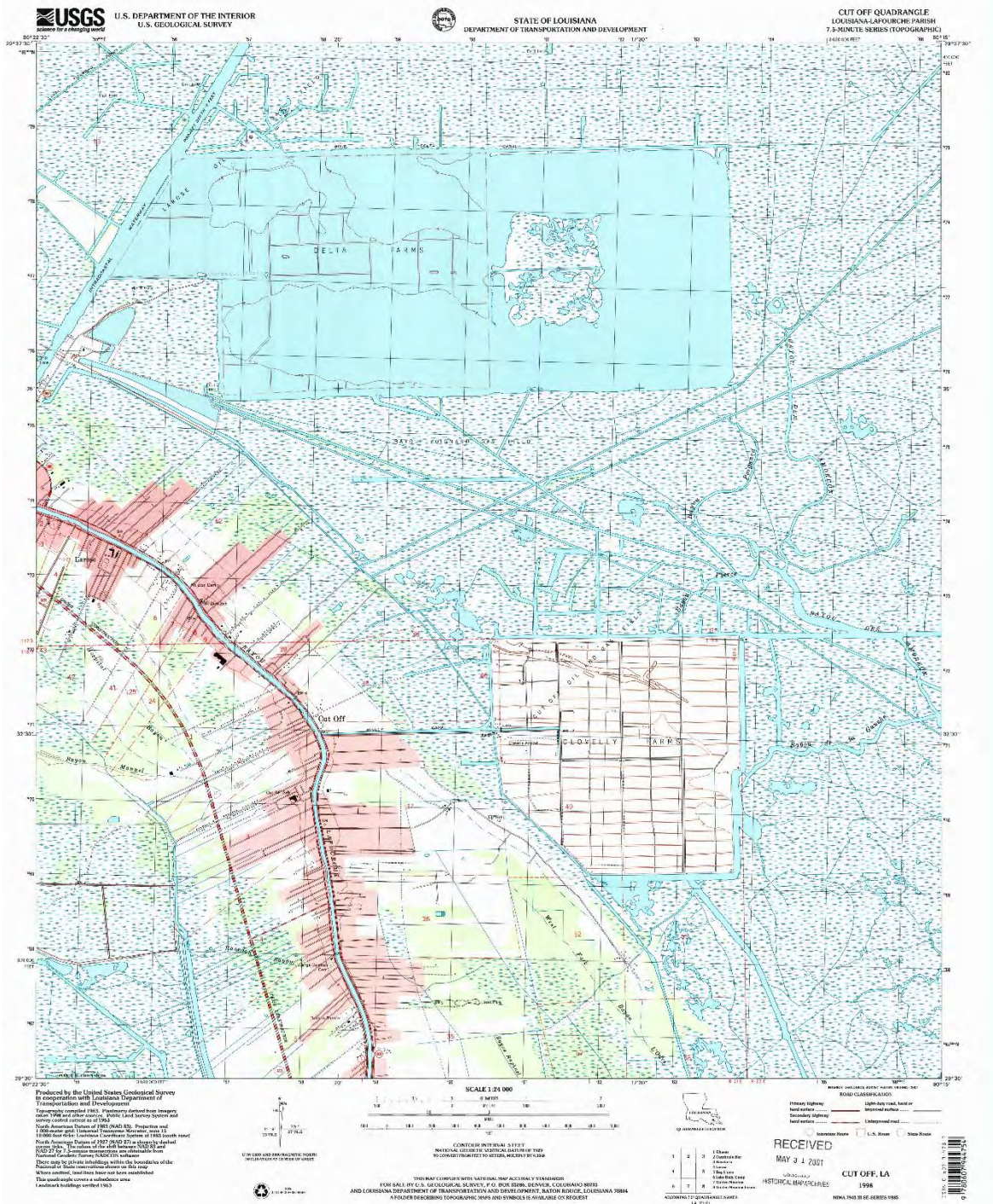






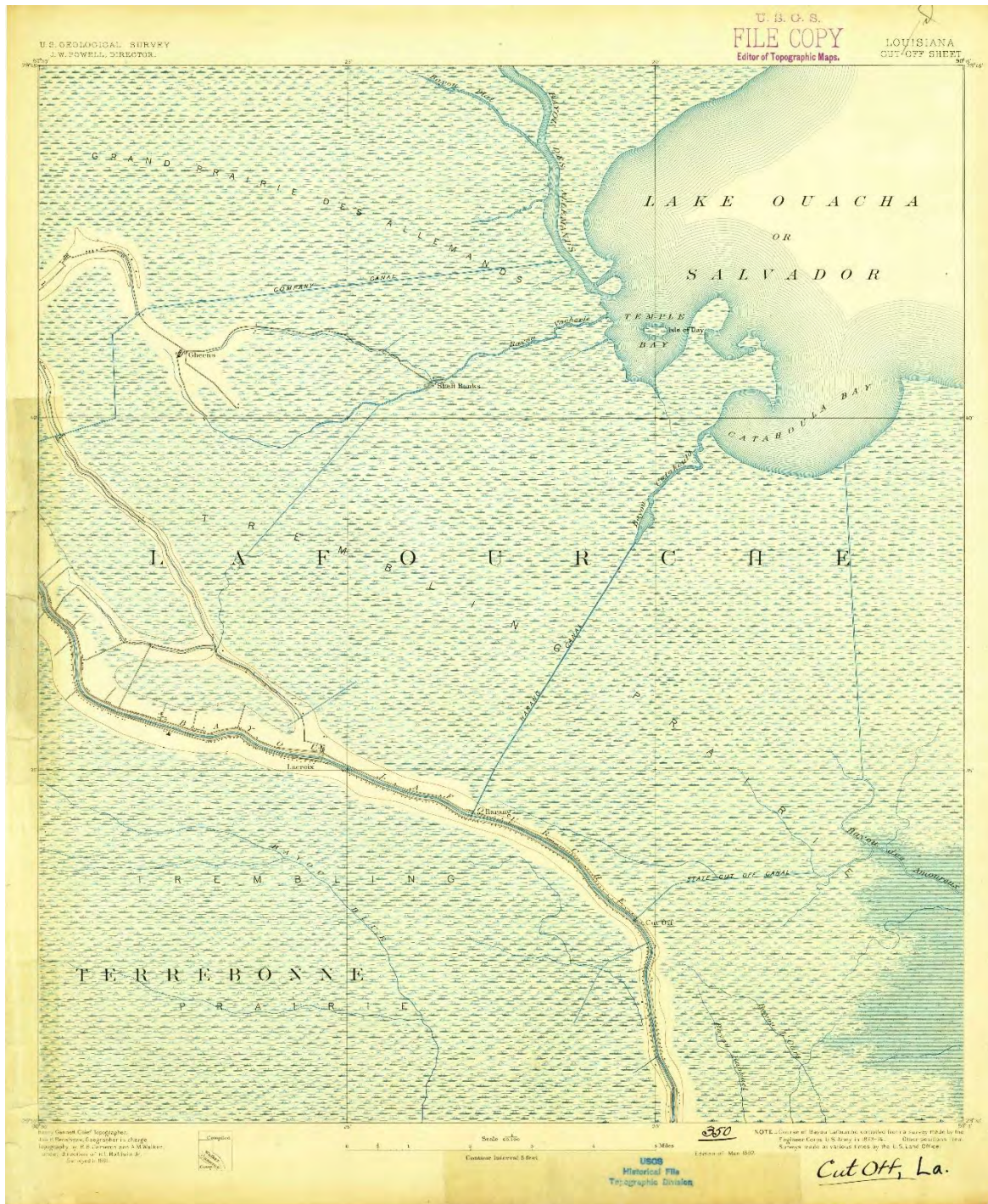
**1998 Reach Larose to Golden Meadow Overlap – Larose Area**



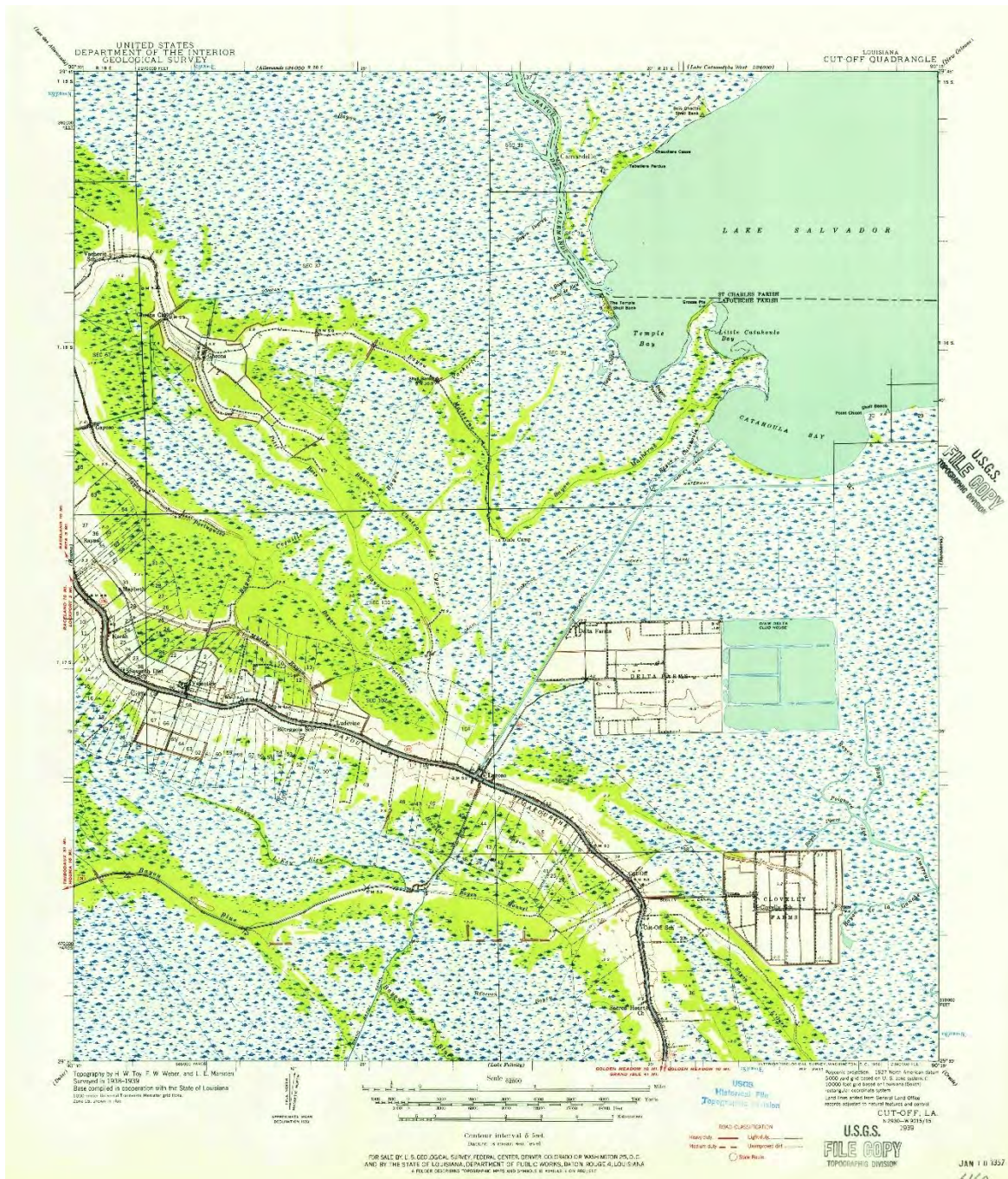


**1998 Reach Larose to Golden Meadow Overlap – Cutoff Area**

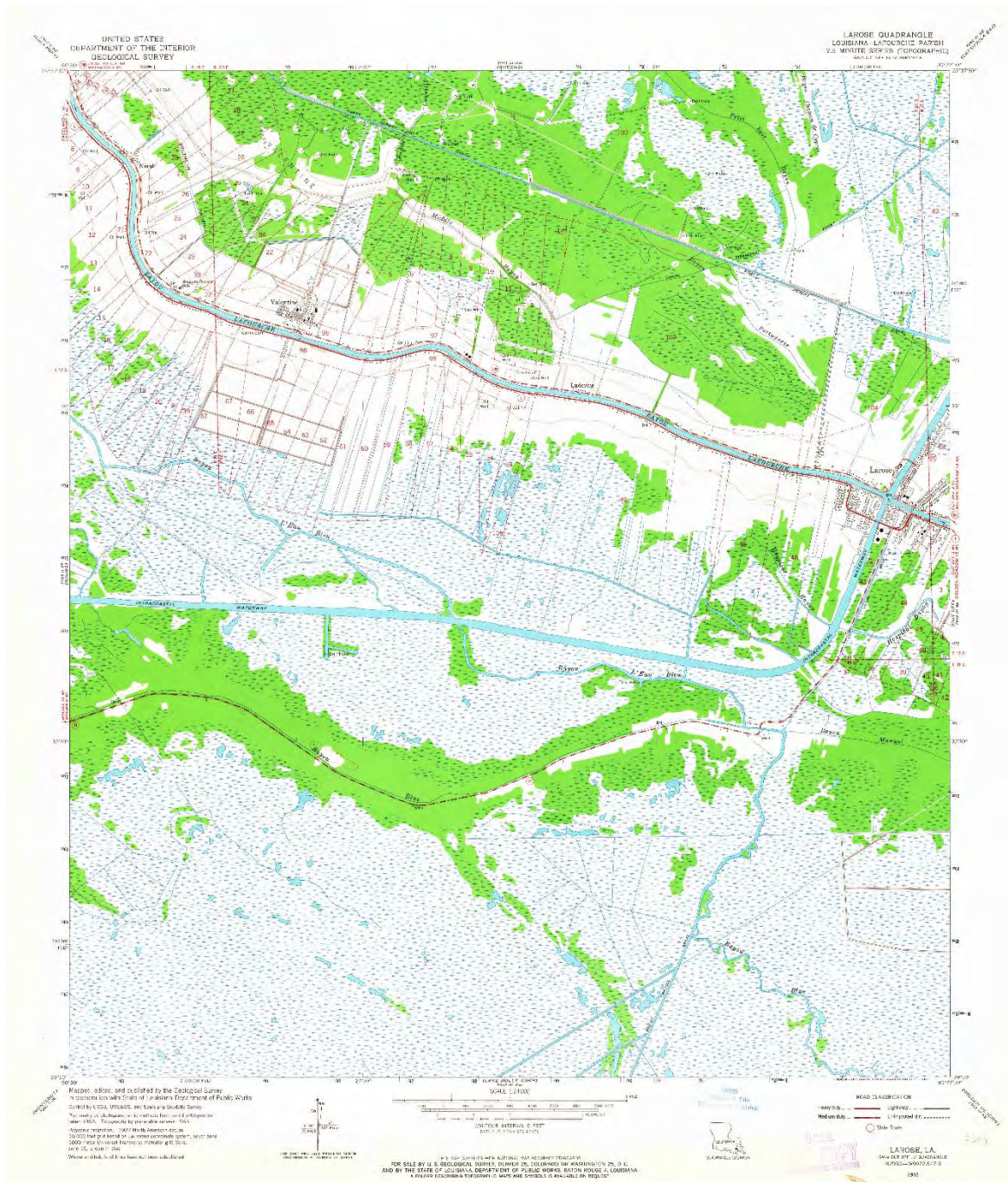




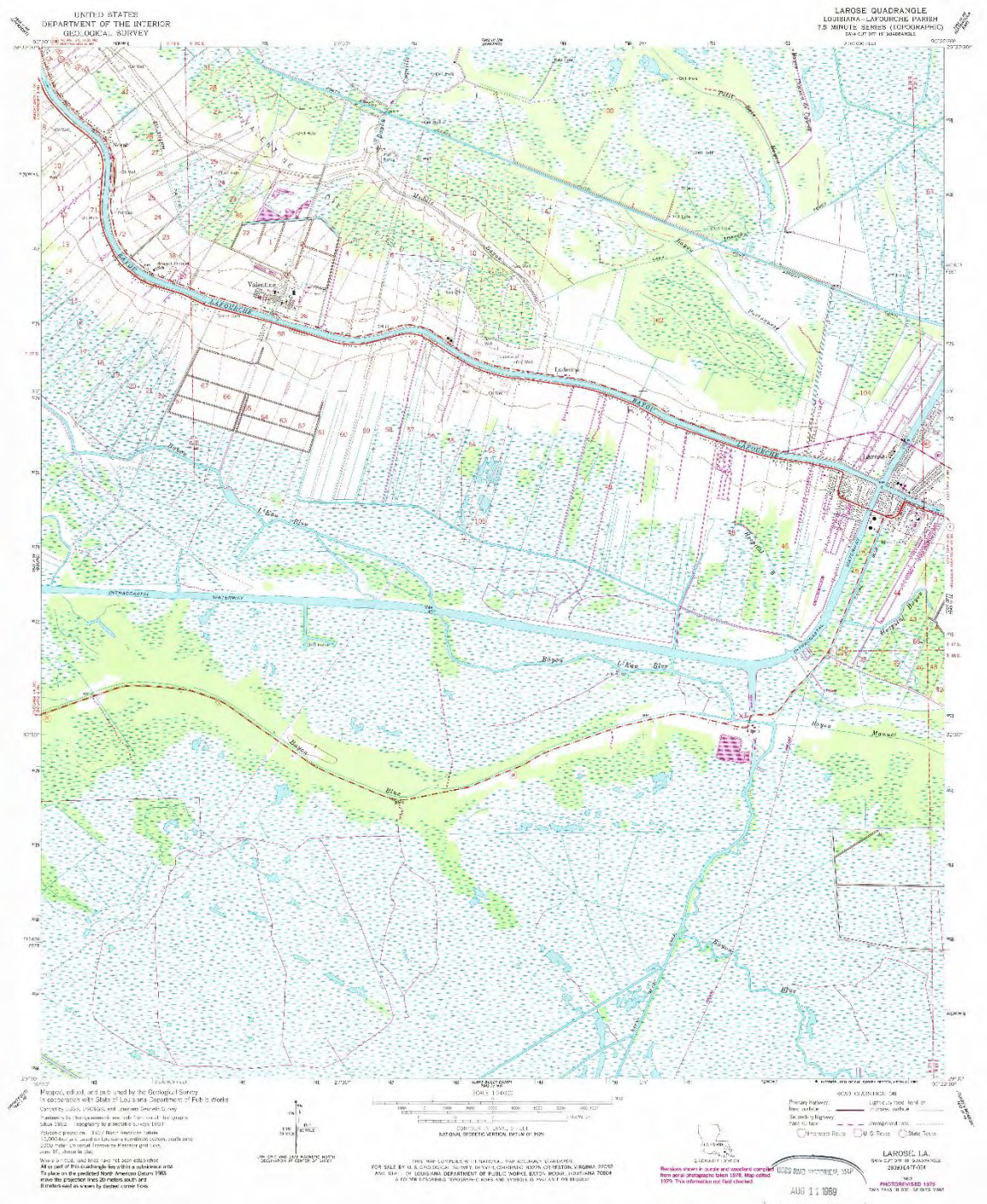






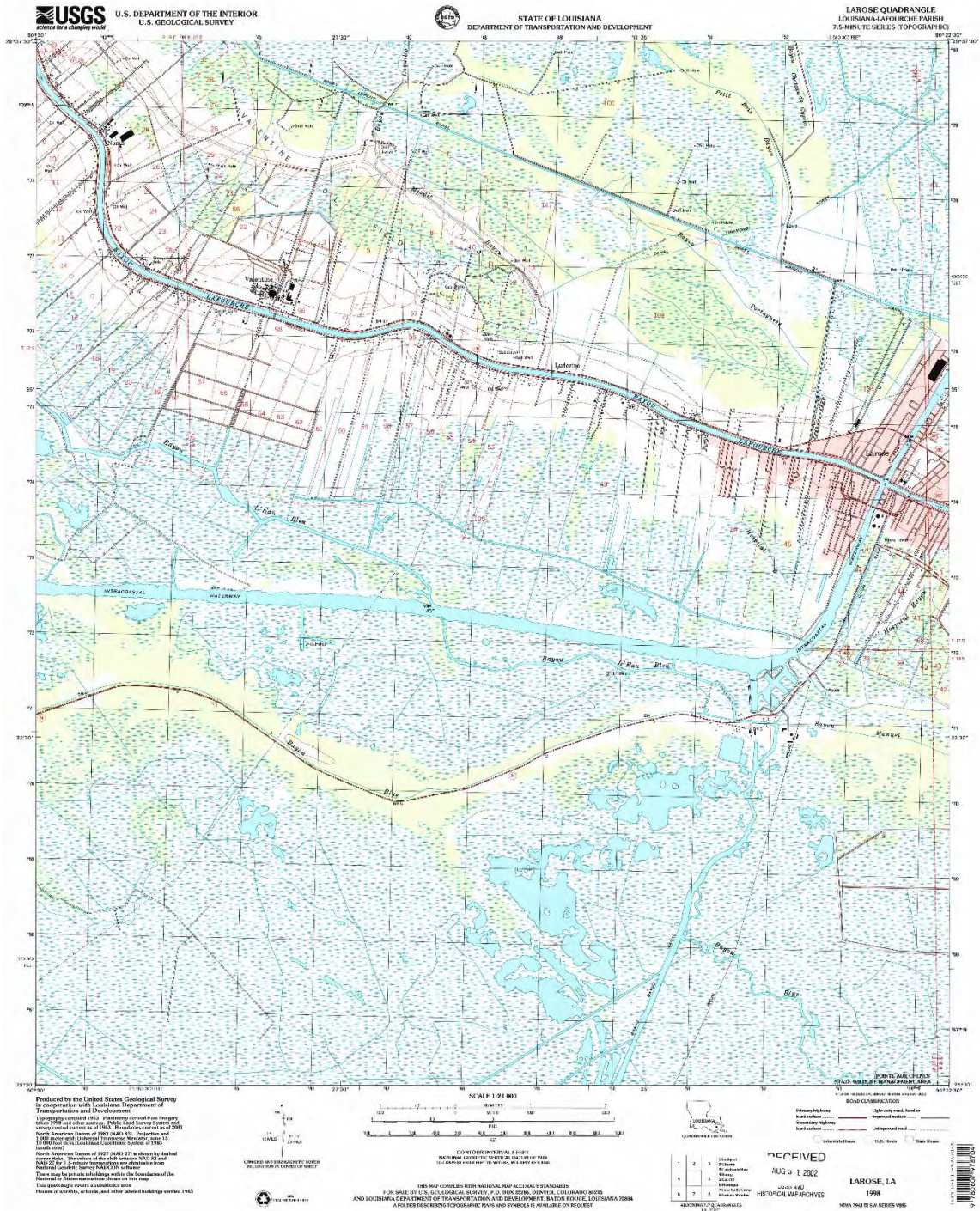




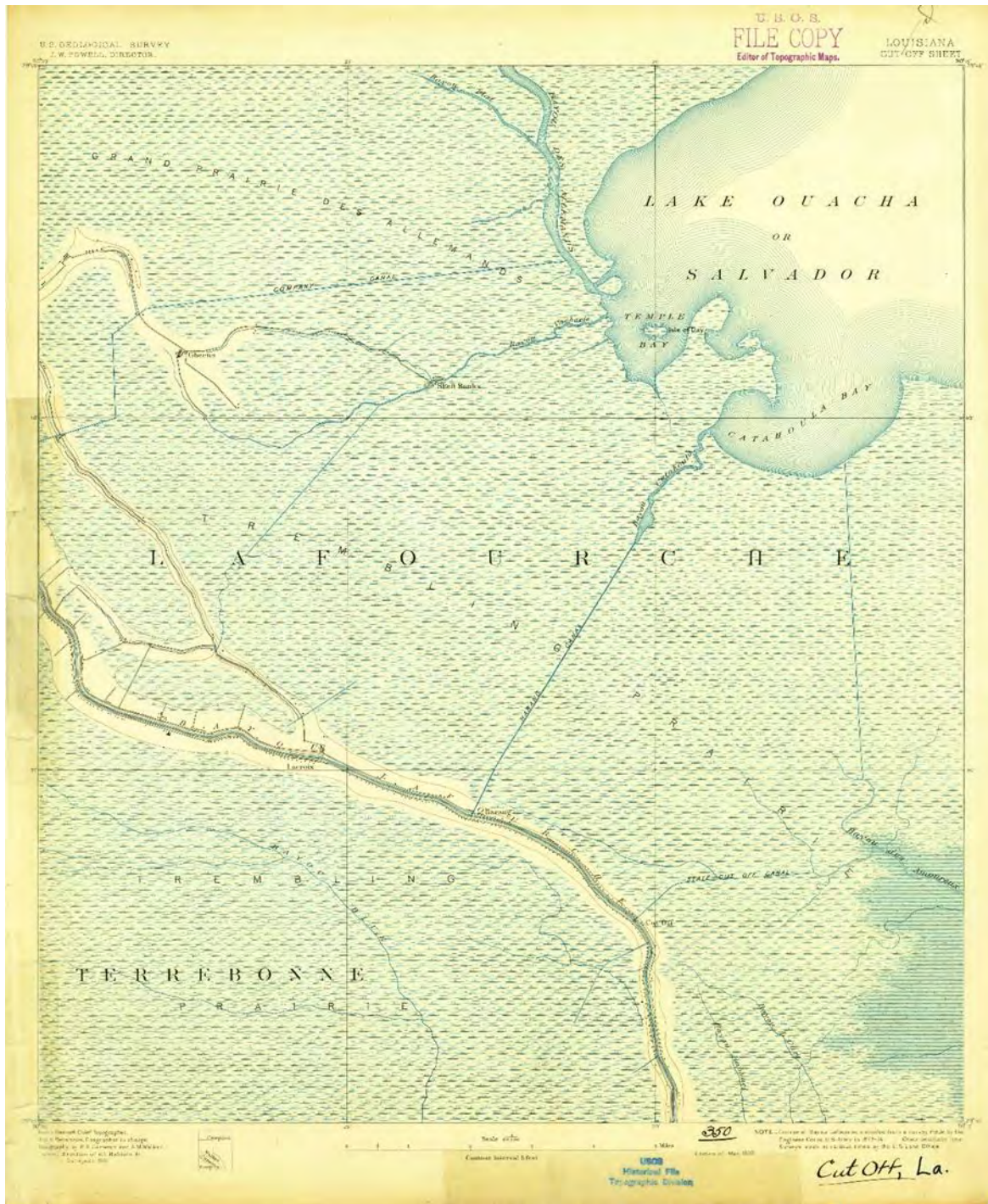


1979 Reach Larose to Lockport – A

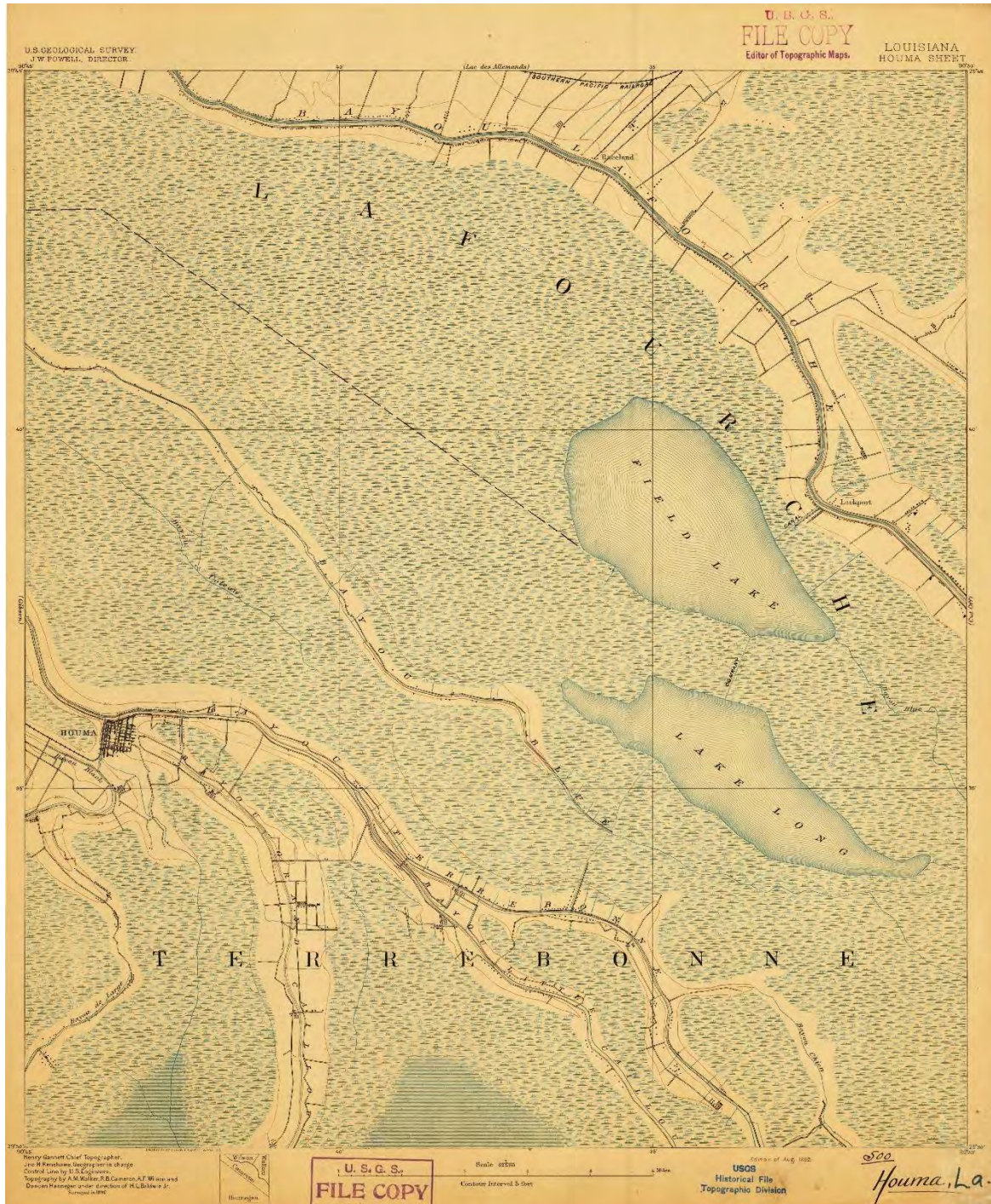






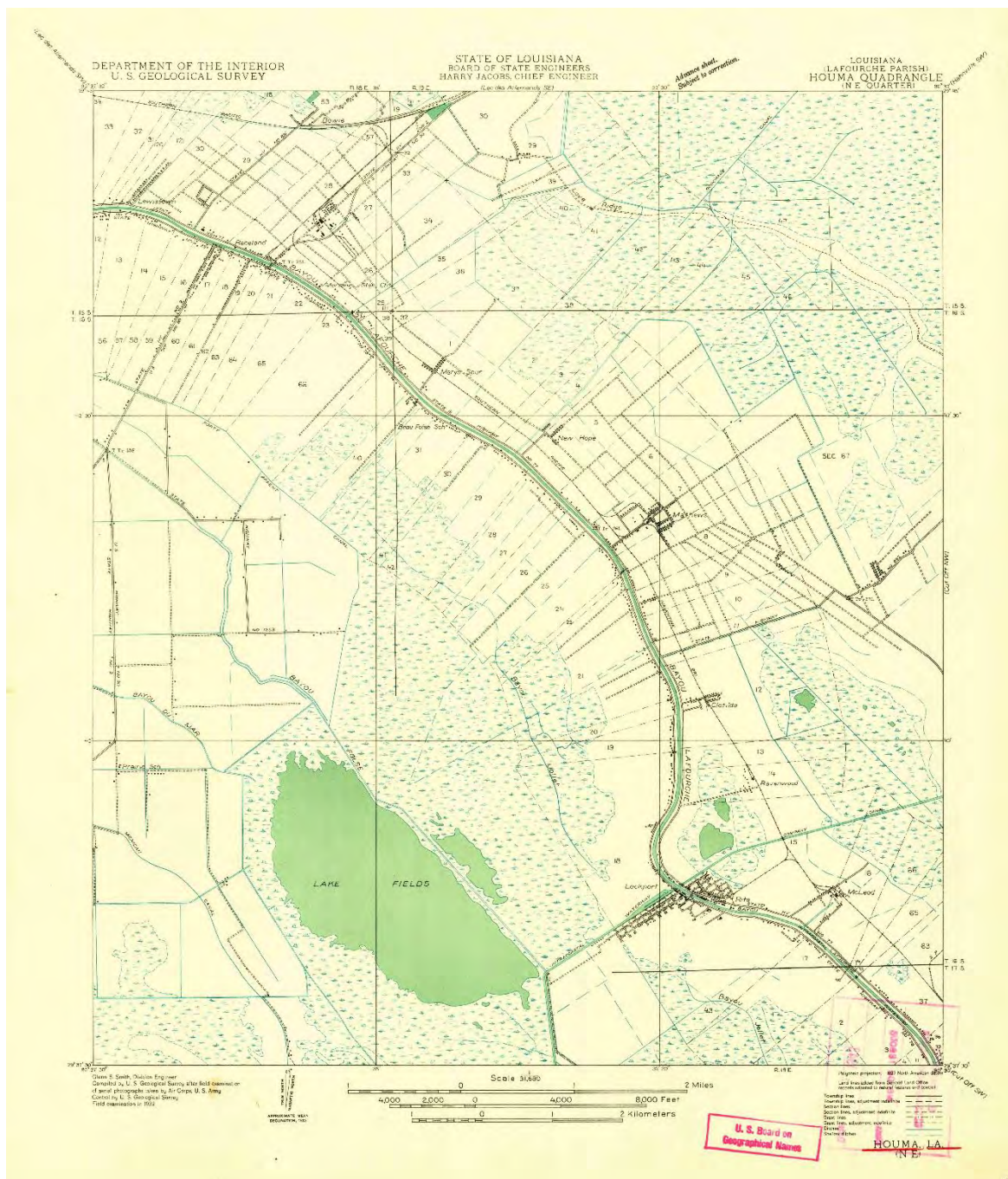




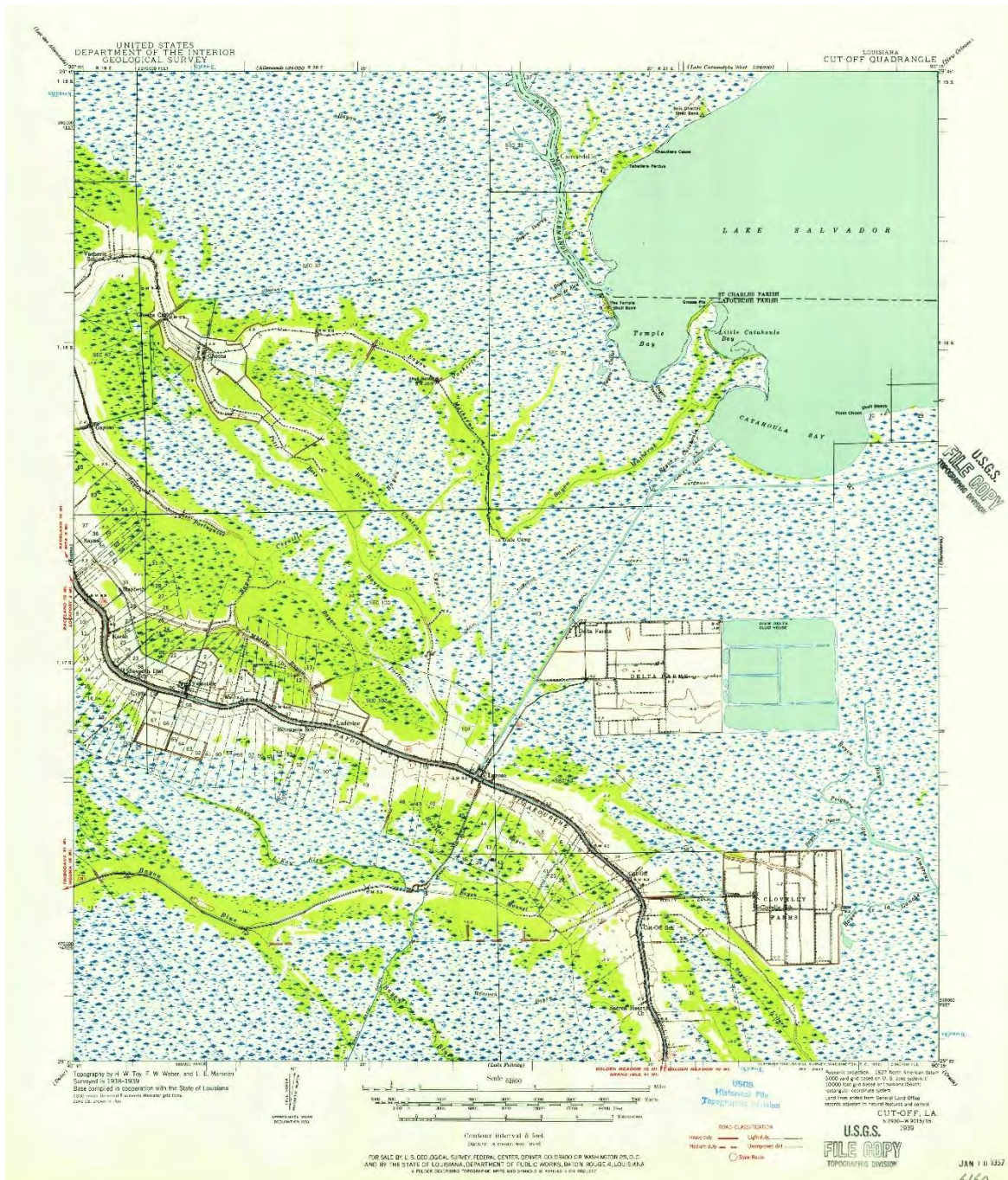


1892 Reach Larose to Lockport – B (Lockport Area)

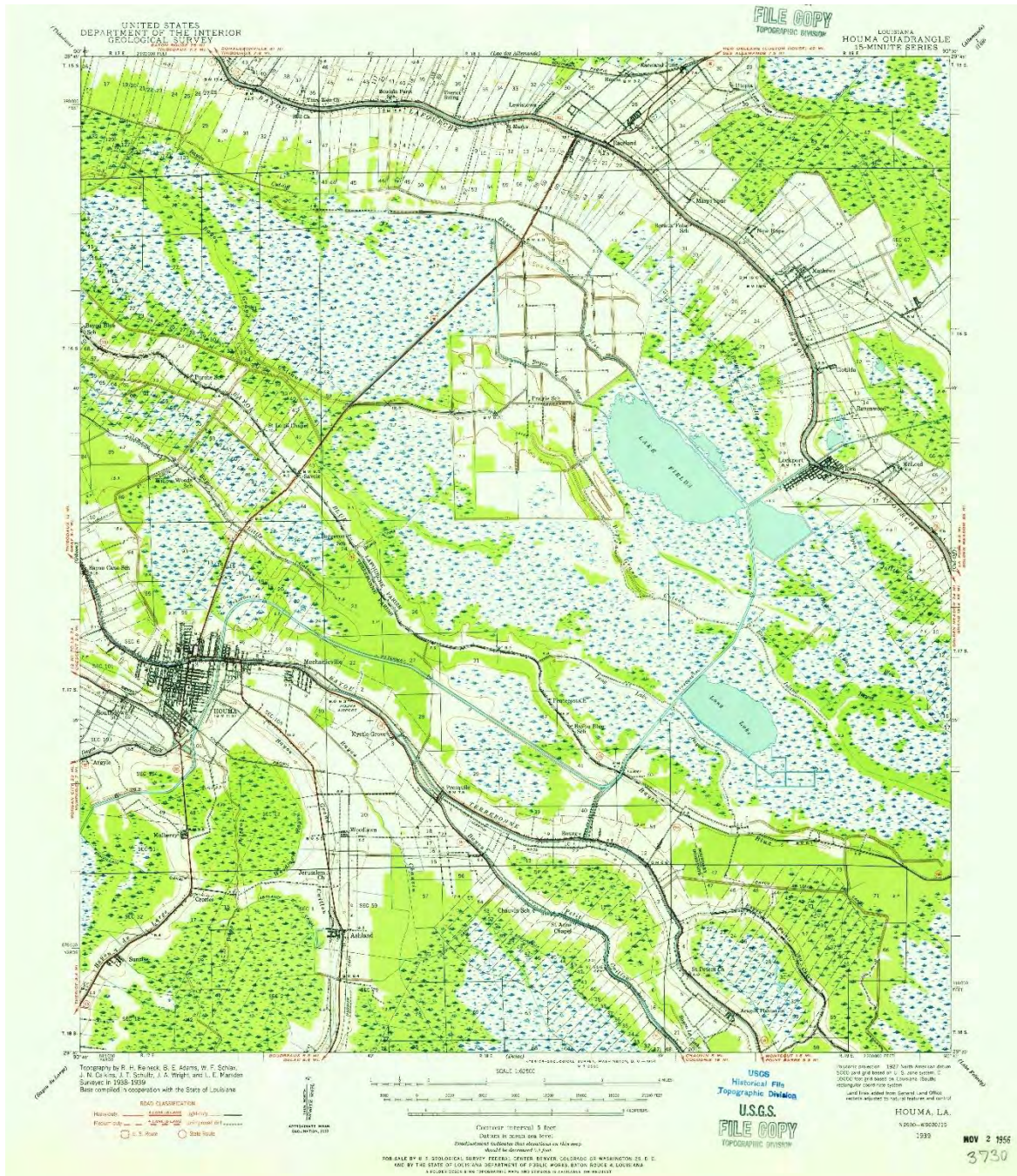






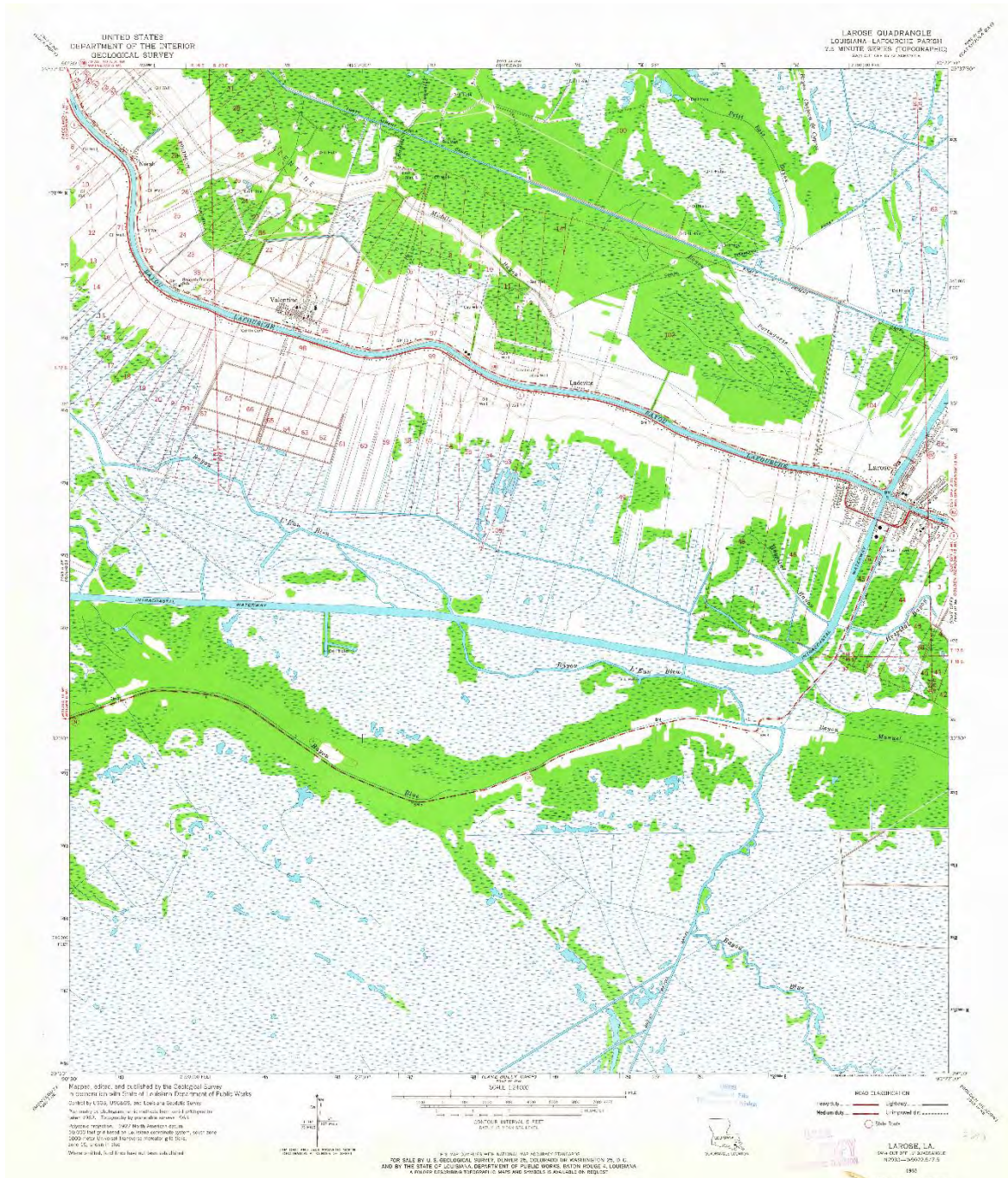




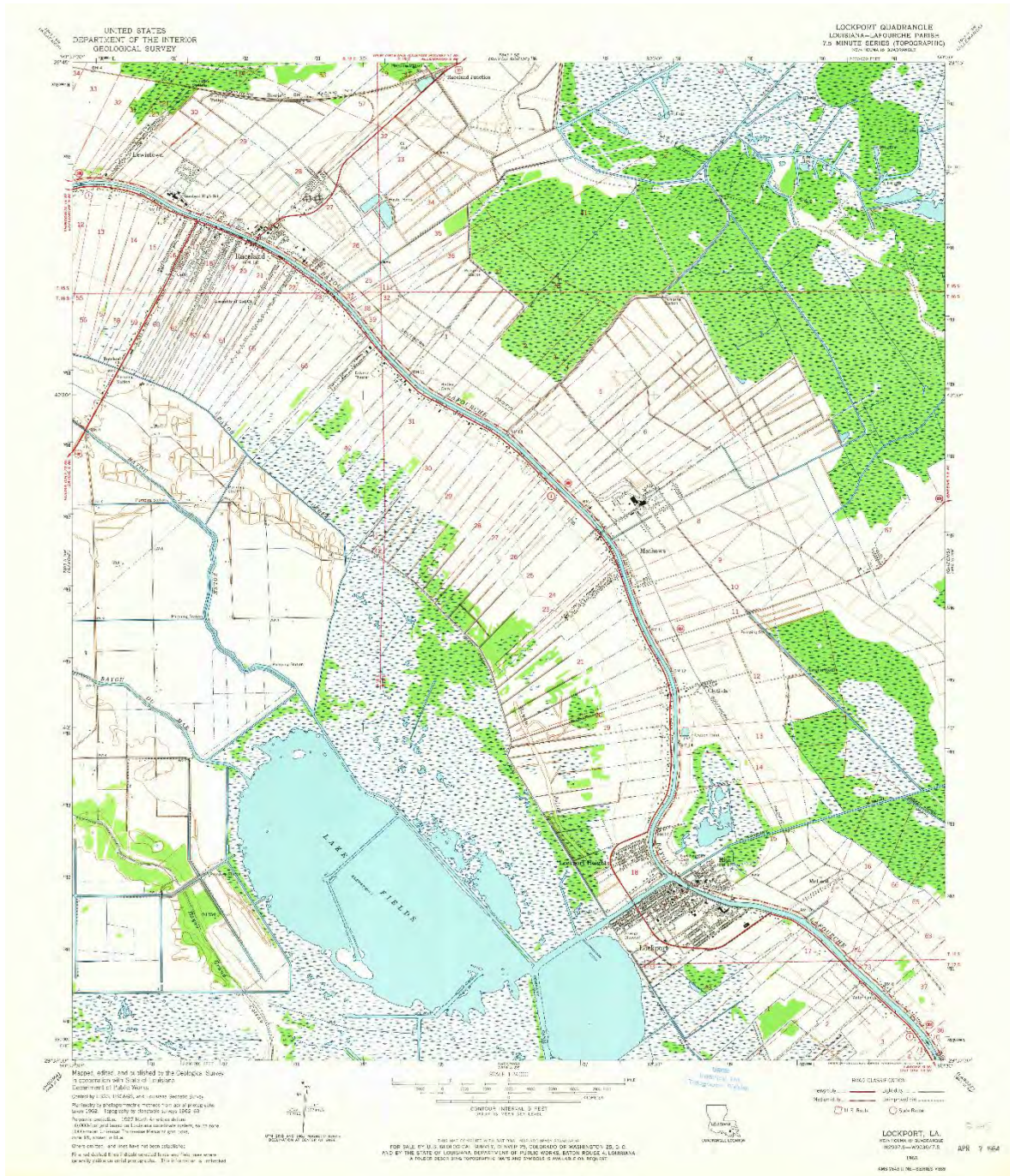


1939 Reach Larose to Lockport – B (Lockport Area)







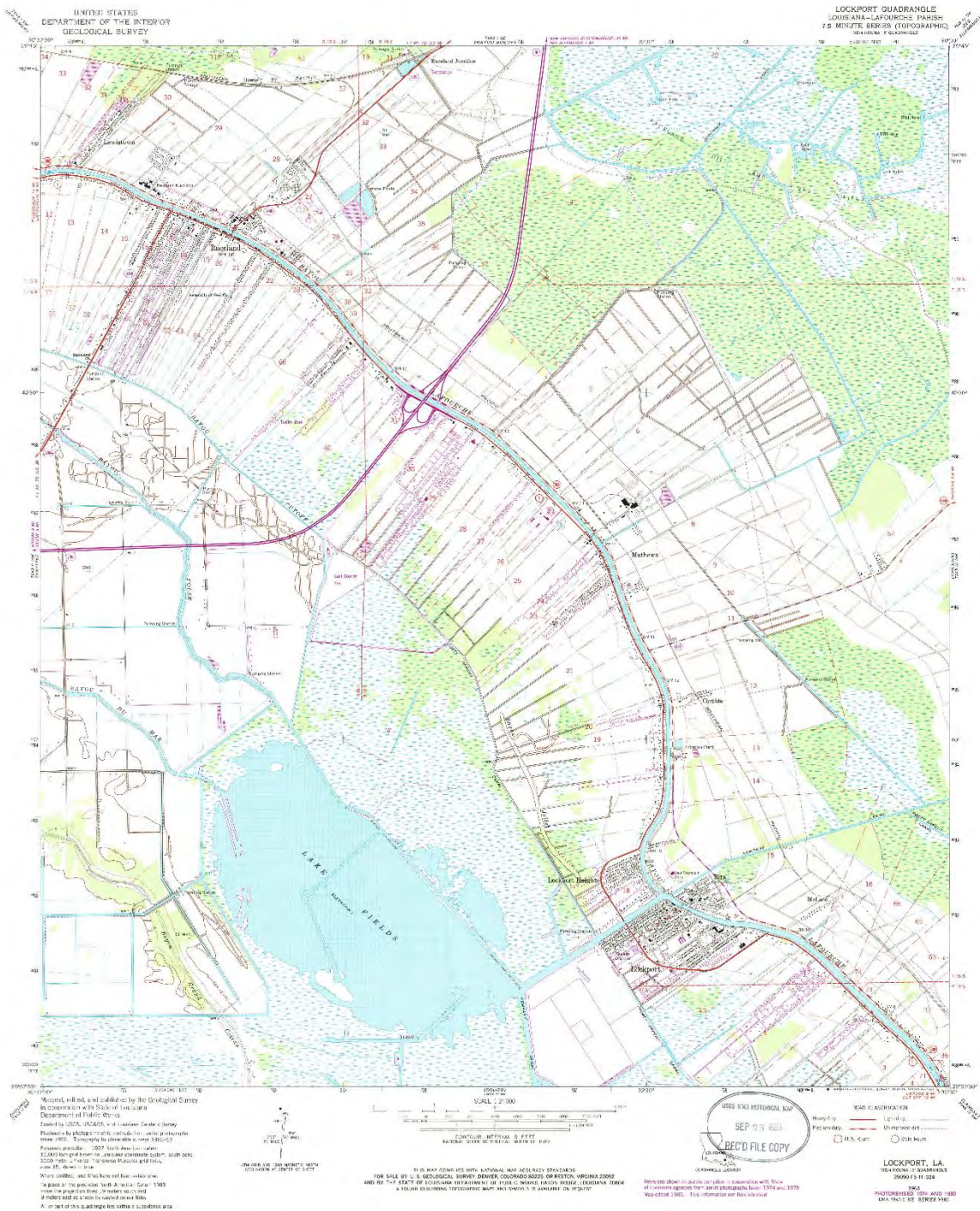


**1963 Reach Larose to Lockport – B (Lockport Area)**









**1980 Reach Larose to Lockport – B (Lockport Area)**











**APPENDIX D**

**MORGANZA TO THE GULF**  
**SURVEYS AND BORINGS ALIGNMENT**

**SITE VISIT PHOTOGRAPHS**





**Photograph 1. Camps & Homes in the vicinity of Morganza to the Gulf Surveys & Borings Alignment.**





**Photograph 2. Part of the Levee Alignment for Morganza to the Gulf Surveys & Borings.**





**Photograph 3. Oil storage tanks in vicinity of Morganza to the Gulf Surveys & Borings alignment.**





**Photograph 4. Pump Station along Morganza to the Gulf Surveys & Borings alignment.**





**Photograph 5. Refinery facility along Morganza to the Gulf Surveys & Borings Alignment.**





**Photograph 6. Refining/Storage facility along Morganza to the Gulf Surveys & Borings alignment.**





**Photograph 7. Structure along Bayou Lafourche for the Morganza to the Gulf Surveys & Borings alignment.**





**Photograph 8. Typical swamp type area along Morganza to the Gulf Surveys & Borings alignment.**



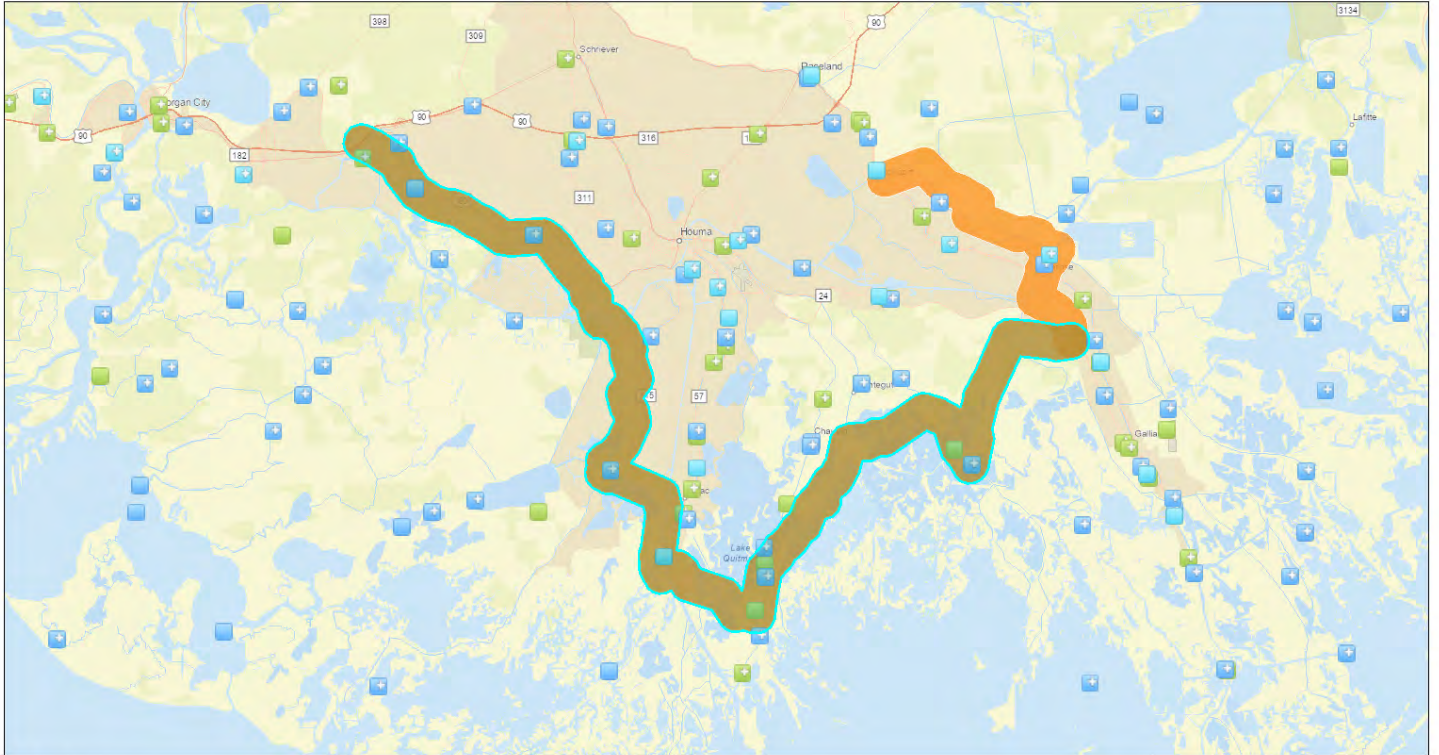
**APPENDIX E**

**MORGANZA TO THE GULF**  
**REACH A SURVEYS AND BORINGS ALIGNMENT**

**ENVIRONMENTAL DATA**



# NEPAssist Report



October 3, 2023

Project 1  
Water Dischargers (NPDES)  
Hazardous Waste (RCRAInfo)  
Toxic Releases (TRI)  
onemilebuffer

1:366,900  
0 4 8 16 mi  
0 5 10 20 km  
CONANP, Esri, HERE, Garmin, Foursquare, SafeGraph, FAO, METI/  
NASA, USGS, EPA, NPS

Input Coordinates: 29.613555,-90.876386,29.615171,-90.842969,29.613648,-90.837471,29.608588,-  
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Project Area	148.48 sq mi
Within an Ozone 8-hr (1997 standard) Non-Attainment/Maintenance Area?	no
Within an Ozone 8-hr (2008 standard) Non-Attainment/Maintenance Area?	no
Within a Lead (2008 standard) Non-Attainment/Maintenance Area?	no
Within a SO2 1-hr (2010 standard) Non-Attainment/Maintenance Area?	no
Within a PM2.5 24hr (2006 standard) Non-Attainment/Maintenance Area?	no
Within a PM2.5 Annual (1997 standard) Non-Attainment/Maintenance Area?	no
Within a PM2.5 Annual (2012 standard) Non-Attainment/Maintenance Area?	no
Within a PM10 (1987 standard) Non-Attainment/Maintenance Area?	no
Within a Federal Land?	yes
Within an impaired stream?	yes
Within an impaired waterbody?	yes
Within a waterbody?	yes
Within a stream?	yes
Within an NWI wetland?	Available Online
Within a Brownfields site?	no
Within a Superfund site?	no
Within a Toxic Release Inventory (TRI) site?	yes
Within a water discharger (NPDES)?	yes
Within a hazardous waste (RCRA) facility?	yes
Within an air emission facility?	yes
Within a school?	yes
Within an airport?	no
Within a hospital?	no
Within a designated sole source aquifer?	no
Within a historic property on the National Register of Historic Places?	yes
Within a Toxic Substances Control Act (TSCA) site?	no
Within a Land Cession Boundary?	no
Within a tribal area (lower 48 states)?	no
Within the service area of a mitigation or conservation bank?	yes
Within the service area of an In-Lieu-Fee Program?	yes
Within a Public Property Boundary of the Formerly Used Defense Sites?	no
Within a Munitions Response Site?	no
Within an Essential Fish Habitat (EFH)?	no
Within a Habitat Area of Particular Concern (HAPC)?	no
Within an EFH Area Protected from Fishing (EFHA)?	yes
Within a Bureau of Land Management Area of Critical Environmental Concern?	no
Within an ESA-designated Critical Habitat Area per U.S. Fish & Wildlife Service?	no
Within an ESA-designated Critical Habitat river, stream or water feature per U.S. Fish & Wildlife Service?	no



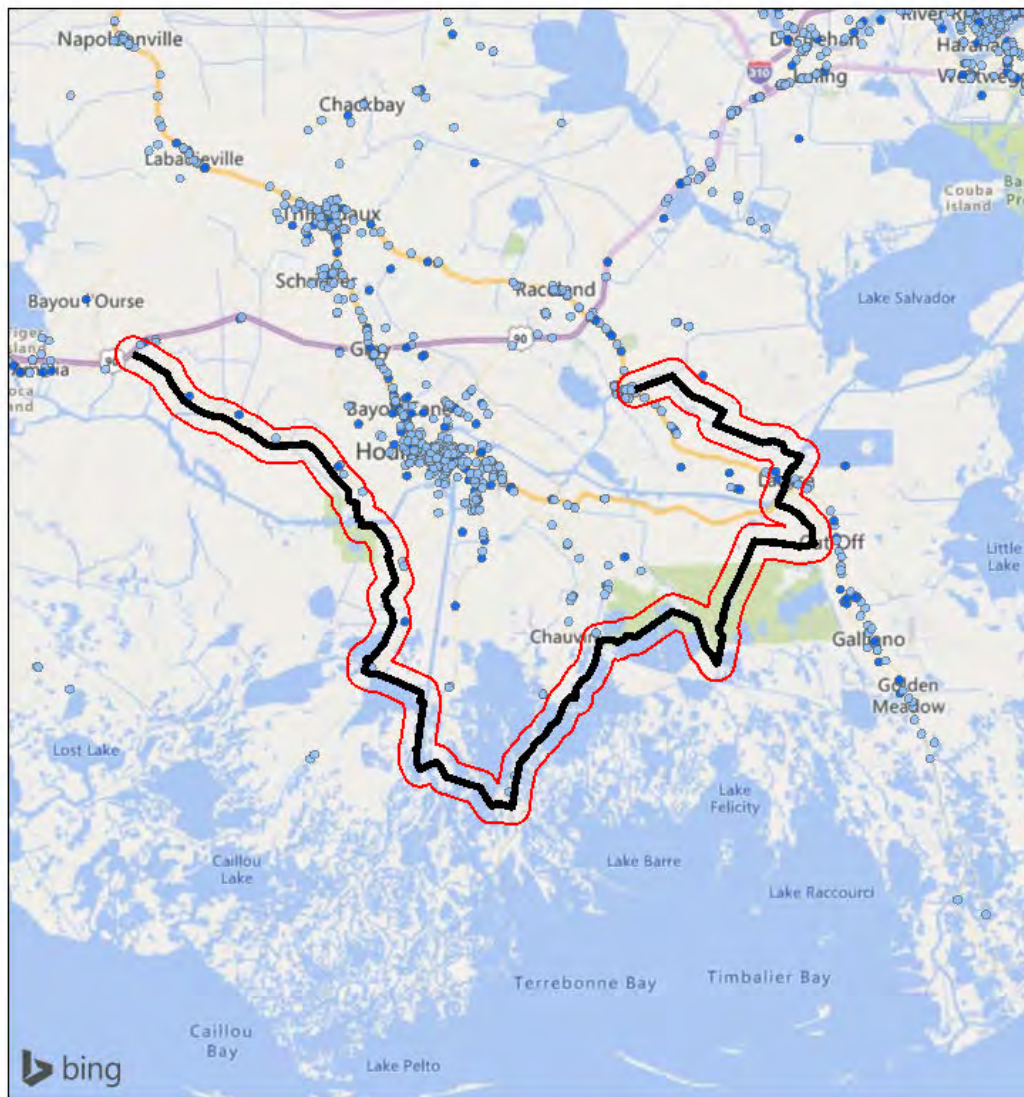


# Underground Storage Tank Report

## Area of Interest (AOI) Information

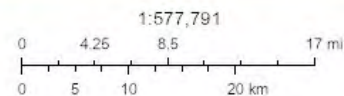
Area : 185.93 mi<sup>2</sup>

Oct 17 2023 8:03:27 Central Daylight Time



### Facilities

- Closed UST(s)
- Open UST(s)



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## Summary

Name	Count	Area(mi²)	Length(mi)
Facilities	52		
Releases	13		

## Facilities



#	Facility ID	Name	Address	City	County
1	LA17725	Transcontinental Gas Pipe Line Company LLC - Compressor Station 62	4711 Bayou Black Dr		Gibson
2	LA18535	Lafourche Telephone Co Inc	112 W Tenth St		Larose
3	LA24351	G&S Marine Inc	528 E Main St		Lockport
4	LA25926	Crab Station LLC	13255 W Main St		Larose
5	LA2694	BFI Waste Services LLC dba Allied Waste Services of New Orleans	808 L&A Rd		Metairie
6	LA68594	Gibson Food Mart	6460 Bayou Black Dr		Gibson
7	LA68596	Sabri Inc	110 Vega Ct		Gibson
8	LA68597	Tommy's Stop & Go	633 Bayou DeLarge Rd		Houma
9	LA68808	Orchard Inc - Apple Inn of Larose - Apple Inn Cafe	12436 Hwy 1		Larose
10	LA68849	Bayou Quick Stop	205 Crescent Ave		Lockport
11	LA70474	Lockport Self Serve	420 Crescent Ave		Lockport
12	LA70881	Bengal Mart #2	119 Hamilton St		Larose
13	LA70970	Gaubert Food Mart Inc - Go-Bear's Food Marts Inc #22	13269 W Main St		Larose
14	LA70971	Gaubert Food Mart #21	12106 Hwy 1		Larose
15	LA7159	Danos LLC - Larose Facility	13083 Hwy 308		Larose
16	LA73298	Rajun Cajun Food Gas & Fried Chicken Inc	2921 Savanne Rd		Houma
17	LA73748	Gaubert Food Mart #14	1114 Crescent Ave		Lockport
18	LA74217	Frank's Supervalu Inc - Frank's Supervalu #5	7114 Hwy 1		Lockport
19	LA76725	Tommy's Stop & Go Inc - #3	1835 Bayou Dularge		Theriot
20	LA77537	Lockport Discount	615 Crescent Ave		Lockport
21	LA78582	Dufrene's Building Materials	13254 W Main St		Larose
22	LA78629	C&S Quick Stop & Deli	5056 N Bayou Black Dr		Gibson
23	LA84135	Cash Magic Larose LLC	11825 Hwy 308		Larose
24	LA9859	Lafourche Motor Co LLC	5878 Hwy 1		Lockport
25	LA15118	Lockport Exxon	407 Crescent Ave		Lockport
26	LA154279	Lockport Boat Museum (VRP Remediation Site)	107 Lafourche St		Lockport
27	LA51296	Dollar General #3227	803 Dularge Rd		Houma
28	LA66425	Former Texaco Station 10-200-1094	913 Main St		Lockport
29	LA67078	Coastal Dragline Works	N Barrios St		Lockport
30	LA68585	Mac's Tackle Shack	843 Bayou Dularge Rd		Houma
31	LA68728	Jack's Place	3889 Bayou Black Dr		Houma
32	LA69026	A&G Drive Inn	Hwy 90 Rt 1 Box 50-C		Gibson
33	LA70265	Lusco General Merchandise	648 Main St		Lockport

34	LA70464	Breaux Oil Co Inc	514 Hwy 655		Lockport
35	LA70890	Calvin's Exxon	501 W Main		Larose
36	LA70880	Ivy's Exxon	506 E Main		Larose
37	LA72055	Lafayette Days Inn	100 W Lillian		Lafayette
38	LA73683	Leblanc Texaco	105 W 1st St		Larose
39	LA75179	Circle K #4371	Hwy 1 Church St		Lockport
40	LA75729	J J Lapeyouse Store	Hwy 55		Montegut
41	LA75956	Barker Inc	PO Box 369 (124 Lafourche St)		Lockport
42	LA76461	Cannon Shade Tree Boat Landing	3664 Southdown Mandalay Rd		Houma
43	LA76478	Lockport Medical Clinic	1005 Crescent Ave		Lockport
44	LA76660	Steve Trosclair-Steve Phillip 66	Hwy 55		Montegut
45	LA76859	Warehouse	203 Lafourche & Tenth St		Lockport
46	LA77216	Lockport Sheriffs Office	207 Main St		Lockport
47	LA77217	Region C Barn	E Fontinelle St & Hwy 308		Lockport
48	LA77235	Veandrean Chevrolet	LA Hwy 1& Delta		Lockport
49	LA77500	Gregory C Falgoust	407 Main St		Lockport
50	LA77508	Lockport Chevron (Gulf)	Elizabeth & Hwy 1		Lockport
51	LA79783	Garrett Plantation Inc	211 Bayou Sale Rd		Centerville
52	LA96437	Abandoned Raceland Branch	Front & Dresner St		Lockport



#	State	Zip Code	Latitude	Longitude	Coordinate Source
1	Louisiana		29.6056	-90.8750	State
2	Louisiana		29.5658	-90.3801	State
3	Louisiana		29.6462	-90.5341	State
4	Louisiana		29.5670	-90.3706	State
5	Louisiana		29.5828	-90.8129	State
6	Louisiana		29.6863	-91.0008	State
7	Louisiana		29.6410	-90.9589	State
8	Louisiana		29.4514	-90.7504	State
9	Louisiana		29.5687	-90.3813	State
10	Louisiana		29.6441	-90.5439	State
11	Louisiana		29.6423	-90.5431	State
12	Louisiana		29.5761	-90.3946	State
13	Louisiana		29.5667	-90.3699	State
14	Louisiana		29.5708	-90.3897	State
15	Louisiana		29.5714	-90.3732	State
16	Louisiana		29.5821	-90.8152	State
17	Louisiana		29.6446	-90.5445	State
18	Louisiana		29.6398	-90.5188	State
19	Louisiana		29.4122	-90.7824	State
20	Louisiana		29.6446	-90.5445	State
21	Louisiana		29.5668	-90.3709	State
22	Louisiana		29.6255	-90.9104	State
23	Louisiana		29.5776	-90.3928	State
24	Louisiana		29.6456	-90.5453	State
25	Louisiana		29.6429	-90.5428	Geocode
26	Louisiana		29.6471	-90.5387	Geocode
27	Louisiana		29.5021	-90.7524	Geocode
28	Louisiana		29.6442	-90.5279	Geocode
29	Louisiana		29.6460	-90.5452	Geocode
30	Louisiana		29.4980	-90.7515	Geocode
31	Louisiana		29.5751	-90.8099	Geocode
32	Louisiana		29.6837	-91.0062	Geocode
33	Louisiana		29.6446	-90.5327	Geocode
34	Louisiana		29.6466	-90.5345	Geocode
35	Louisiana		29.5683	-90.3834	Geocode
36	Louisiana		29.5684	-90.3833	Geocode
37	Louisiana		29.3217	-90.6448	Geocode
38	Louisiana		29.5703	-90.3842	Geocode
39	Louisiana		29.6454	-90.5343	Geocode
40	Louisiana		29.4420	-90.5658	Geocode
41	Louisiana		29.6470	-90.5396	Geocode
42	Louisiana		29.5609	-90.7908	Geocode
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47	Louisiana		29.6495	-90.5314	Geocode
48	Louisiana		29.6391	-90.5341	Geocode
49	Louisiana		29.6465	-90.5367	Geocode
50	Louisiana		29.6393	-90.5373	Geocode
51	Louisiana		29.3084	-90.6493	Geocode
52	Louisiana		29.6465	-90.5324	Geocode



#	Address Match Type	Open USTs	Closed USTs	Temporarily Out of Service USTs	Facility Status
1		0	1	0	Closed UST(s)
2		0	2	0	Closed UST(s)
3		0	1	0	Closed UST(s)
4		0	2	0	Closed UST(s)
5		0	5	0	Closed UST(s)
6		4	0	0	Open UST(s)
7		1	3	0	Open UST(s)
8		4	0	0	Open UST(s)
9		0	3	0	Closed UST(s)
10		0	0	2	Open UST(s)
11		3	4	0	Open UST(s)
12		0	4	0	Closed UST(s)
13		3	0	0	Open UST(s)
14		3	0	0	Open UST(s)
15		0	2	0	Closed UST(s)
16		3	0	0	Open UST(s)
17		2	5	0	Open UST(s)
18		0	2	0	Closed UST(s)
19		0	2	0	Closed UST(s)
20		2	0	0	Open UST(s)
21		0	3	0	Closed UST(s)
22		3	0	0	Open UST(s)
23		3	0	0	Open UST(s)
24		0	1	0	Closed UST(s)
25	PointAddress	3	6	0	Open UST(s)
26	StreetAddress	0	2	0	Closed UST(s)
27	PointAddress	0	2	0	Closed UST(s)
28	PointAddress	0	4	0	Closed UST(s)
29	StreetName	0	4	0	Closed UST(s)
30	PointAddress	0	3	0	Closed UST(s)
31	PointAddress	0	3	0	Closed UST(s)
32	StreetName	0	2	0	Closed UST(s)
33	PointAddress	0	2	0	Closed UST(s)
34	StreetAddress	0	4	0	Closed UST(s)
35	StreetAddressExt	0	5	0	Closed UST(s)
36	StreetAddressExt	0	4	0	Closed UST(s)
37	PointAddress	0	2	0	Closed UST(s)
38	PointAddress	0	2	0	Closed UST(s)
39	StreetAddressExt	0	2	0	Closed UST(s)
40	StreetName	0	1	0	Closed UST(s)
41	PointAddress	0	1	0	Closed UST(s)
42	PointAddress	0	4	0	Closed UST(s)

43	StreetAddress	0	4	0	Closed UST(s)
44	StreetName	0	1	0	Closed UST(s)
45	StreetInt	0	3	0	Closed UST(s)
46	PointAddress	0	1	0	Closed UST(s)
47	StreetInt	0	2	0	Closed UST(s)
48	StreetInt	0	2	0	Closed UST(s)
49	PointAddress	0	1	0	Closed UST(s)
50	StreetInt	0	5	0	Closed UST(s)
51	StreetAddress	0	2	0	Closed UST(s)
52	StreetInt	0	1	0	Closed UST(s)



#	Land Use	Estimated Population within 1500ft	Estimated Private Domestic Wells within 1500ft	Within Source Water Protection Area (SPA)	SPA Public Water System and Facility ID
1	Developed, Low Intensity	31	0	No	
2	Developed, Low Intensity	586	0	No	
3	Developed, High Intensity	600	0	No	
4	Non-Developed	166	0	No	
5	Non-Developed	96	0	No	
6	Non-Developed	34	0	No	
7	Developed, Low Intensity	37	0	No	
8	Non-Developed	72	0	No	
9	Developed, Low Intensity	505	0	No	
10	Developed, Medium Intensity	808	0	No	
11	Developed, Low Intensity	895	0	No	
12	Developed, High Intensity	164	0	No	
13	Non-Developed	173	0	No	
14	Developed, Low Intensity	584	0	No	
15	Developed, Low Intensity	272	0	No	
16	Developed, Low Intensity	70	0	No	
17	Developed, Low Intensity	740	0	No	
18	Developed, Low Intensity	216	0	No	
19	Developed, Medium Intensity	47	0	No	
20	Developed, Low Intensity	740	0	No	
21	Developed, Low Intensity	174	0	No	
22	Non-Developed	103	0	No	
23	Developed, Low Intensity	223	0	No	
24	Developed, Low Intensity	719	0	No	
25	Developed, Low Intensity	907	0	No	
26	Developed, Medium Intensity	741	0	No	
27	Non-Developed	16	0	No	
28	Non-Developed	284	0	No	
29					
30	Developed, Low Intensity	21	0	No	
31	Developed, Low Intensity	36	0	No	
32					
33	Developed, Medium Intensity	635	0	No	
34	Developed, Medium Intensity	586	0	No	
35					
36					
37	Non-Developed	15	0	No	

38	Developed, Low Intensity	500	0	No	
39					
40					
41	Developed, Low Intensity	756	0	No	
42	Developed, Low Intensity	29	0	No	
43	Developed, Low Intensity	834	0	No	
44					
45	Developed, Low Intensity	780	0	No	
46	Developed, Medium Intensity	728	0	No	
47	Developed, Low Intensity	262	0	No	
48	Developed, Low Intensity	666	0	No	
49	Developed, Medium Intensity	706	0	No	
50	Developed, Low Intensity	856	0	No	
51	Non-Developed	21	0	No	
52	Developed, Low Intensity	481	0	No	



#	SPA Water Type	SPA Facility Type	SPA HUC12	Within Groundwater Wellhead Protection Area (WHPA)	WHPA Public Water System and Facility ID
1				No	
2				No	
3				No	
4				No	
5				No	
6				No	
7				No	
8				No	
9				No	
10				No	
11				No	
12				No	
13				No	
14				No	
15				No	
16				No	
17				No	
18				No	
19				No	
20				No	
21				No	
22				No	
23				No	
24				No	
25				No	
26				No	
27				No	
28				No	
29					
30				No	
31				No	
32					
33				No	
34				No	
35					
36					
37				No	
38				No	
39					
40					
41				No	

42				No	
43				No	
44					
45				No	
46				No	
47				No	
48				No	
49				No	
50				No	
51				No	
52				No	



#	WHPA Water Type	WHPA Facility Type	WHPA HUC12	Within 100-year Floodplain	Count
1				No	1
2				No	1
3				No	1
4				No	1
5				Yes	1
6				No	1
7				No	1
8				Yes	1
9				No	1
10				No	1
11				No	1
12				No	1
13				No	1
14				No	1
15				No	1
16				No	1
17				No	1
18				No	1
19				No	1
20				No	1
21				No	1
22				No	1
23				No	1
24				No	1
25				No	1
26				No	1
27				No	1
28				No	1
29					1
30				No	1
31				No	1
32					1
33				No	1
34				No	1
35					1
36					1
37				Yes	1
38				No	1
39					1
40					1
41				No	1
42				No	1

43				No	1
44					1
45				No	1
46				No	1
47				No	1
48				No	1
49				No	1
50				No	1
51				Yes	1
52				No	1

## Releases

#	Facility_ID	LUST_ID	Name	Address	City
1	LA25926	LA25926_191979	Crab Station LLC	13255 W Main St	
2	LA70474	LA70474_18734	Lockport Self Serve	420 Crescent Ave	
3	LA70881	LA70881_18770	Bengal Mart #2	119 Hamilton St	
4	LA70881	LA70881_116917	Bengal Mart #2	119 Hamilton St	
5	LA70881	LA70881_116919	Bengal Mart #2	119 Hamilton St	
6	LA70970	LA70970_55589	Gaubert Food Mart Inc - Go-Bear's Food Marts Inc #22	13269 W Main St	
7	LA70971	LA70971_55588	Gaubert Food Mart #21	12106 Hwy 1	
8	LA77537	LA77537_75553	Lockport Discount	615 Crescent Ave	
9	LA78629	LA78629_185922	C&S Quick Stop & Deli	5056 N Bayou Black Dr	
10	LA73683	LA73683_81598	Leblanc Texaco	105 W 1st St	
11	LA75179	LA75179_19481	Circle K #4371	Hwy 1 Church St	
12	LA77216	LA77216_19821	Lockport Sheriffs Office	207 Main St	
13	LA96437	LA96437_60627	Abandoned Raceland Branch	Front & Dresner St	

#	County	Zip_Code	State	Latitude	Longitude
1	Larose		Louisiana	29.5670	-90.3706
2	Lockport		Louisiana	29.6423	-90.5431
3	Larose		Louisiana	29.5761	-90.3946
4	Larose		Louisiana	29.5761	-90.3946
5	Larose		Louisiana	29.5761	-90.3946
6	Larose		Louisiana	29.5667	-90.3699
7	Larose		Louisiana	29.5708	-90.3897
8	Lockport		Louisiana	29.6446	-90.5445
9	Gibson		Louisiana	29.6255	-90.9104
10	Larose		Louisiana	29.5703	-90.3842
11	Lockport		Louisiana	29.6454	-90.5343
12	Lockport		Louisiana	29.6470	-90.5381
13	Lockport		Louisiana	29.6465	-90.5324



#	Coordinate_Source	Address_Match_Type	Reported_Date	Status	Substance
1	State		6/27/2019	No Further Action	Gasoline
2	State		2/12/1993	No Further Action	
3	State		2/20/1998	No Further Action	
4	State		8/27/2009	No Further Action	
5	State		8/27/2009	No Further Action	
6	State		10/10/2002	No Further Action	
7	State		10/1/2002	No Further Action	
8	State		12/10/2004	No Further Action	Gasoline
9	State		6/1/2018	Open	
10	Geocode	PointAddress	8/23/2005	No Further Action	
11	Geocode	StreetAddressExt	2/24/1990	No Further Action	
12	Geocode	PointAddress	2/22/1994	No Further Action	
13	Geocode	StreetInt	1/28/2002	No Further Action	

#	Population_within_150_0ft	DomesticWells_within_1500ft	LandUse	Within_SPA	SPA_PWS_FacilityID
1	166	0	Non-Developed	No	
2	895	0	Developed, Low Intensity	No	
3	164	0	Developed, High Intensity	No	
4	164	0	Developed, High Intensity	No	
5	164	0	Developed, High Intensity	No	
6	173	0	Non-Developed	No	
7	583	0	Developed, Low Intensity	No	
8	740	0	Developed, Low Intensity	No	
9	103	0	Non-Developed	No	
10	500	0	Developed, Low Intensity	No	
11					
12	728	0	Developed, Medium Intensity	No	
13	481	0	Developed, Low Intensity	No	

#	SPA_Water_Type	SPA_Facility_Type	SPA_HUC12	Within_WHPA	WHPA_PWS_FacilityID
1				No	
2				No	
3				No	
4				No	
5				No	
6				No	
7				No	
8				No	
9				No	
10				No	
11					
12				No	
13				No	

#	WHPA_Water_Type	WHPA_Facility_Type	WHPA_HUC12	Within_100yr_Floodplain	Count
1				No	1
2				No	1
3				No	1
4				No	1
5				No	1
6				No	1
7				No	1
8				No	1
9				No	1
10				No	1
11					1
12				No	1
13				No	1