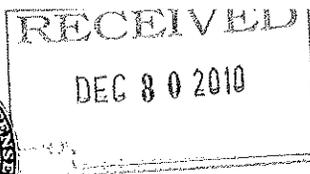


APPENDIX C
USACE PERMIT



DEPARTMENT OF THE ARMY
MOBILE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 2288
MOBILE, AL 36628-0001

REPLY TO
ATTENTION OF

December 27, 2010

Coastal Branch
Regulatory Division

SUBJECT: Department of the Army Nationwide Permit Number SAM-2010-01252-JEB, City of Mobile

City of Mobile
Attention: Ms. Ray Richardson
200 Government Street, 2nd Floor
Mobile, Alabama 36602

Dear Ms. Richardson:

This letter is in response to your September 7, 2010 application for a Department of the Army (DA) permit to fill 0.31 acre of low quality wetlands to construct a fire station. It has been assigned file number SAM-2010-01252-JEB, which should be referred to in all future correspondence with this office. The project is located along Bellingrath Road, Section 10, Township 6 South, Range 2 West, Theodore, Mobile County, Alabama (Latitude 30.5438° North and Longitude 88.6910° West).

DA permit authorization is necessary because your project involves work in waters of the United States, including wetlands under our regulatory jurisdiction.

Based upon the information and plans you provided, we hereby verify that the work described above, which would be performed in accordance with the enclosed drawings, is authorized by Nationwide Permit (NWP) 39, Commercial and Institutional Developments, in accordance with 33 CFR Part 330 of our regulations. This NWP and its associated Regional and General Conditions can be viewed at our website at www.sam.usace.army.mil/rd/reg. You must comply with all of the special and general conditions and any project specific conditions of this authorization or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verification may be required.

The following project specific conditions are included with this verification:

a. You shall comply with all the terms and conditions of the Alabama Department of Environmental Management (ADEM) Section 401 Water Quality Certification for the NWP. This document can be viewed on our website at: www.sam.usace.army.mil/rd/reg/nwp.htm for your review and compliance or at your request a paper copy will be provided to you. By letter dated

May 30, 2007, ADEM certified that work authorized by this NWP will be in compliance with the applicable water quality standards established under Section 303 of the Clean Water Act and Title 22, Section 22-22-9(g), Code of Alabama 1975, provided the applicant acts in accordance with the enclosed (Enclosure I) conditions as specified.

b. If the approved permit drawings conflict with the specific conditions of this NWP 39, then the specific conditions shall prevail.

c. Best management practices shall be implemented to adequately retain fill material minimizing erosion, siltation, turbidity and damage to adjacent wetlands and waters of the United States. Appropriate erosion and siltation control measures must be used and maintained in effective operating condition during construction and shall remain in place until permanent stabilization measures have been completed and have become fully effective.

d. No building materials, tools or other equipment shall be stockpiled in wetlands or other waters of the United States.

e. Project construction shall be conducted in such a manner that passage of normal expected high flows of surface water runoff outside the project boundaries is not restricted or otherwise altered and a jurisdictional connection to wetlands to the north is maintained.

f. The disposal of trees, brush and other debris in any stream corridor, wetland or surface water is prohibited.

g. Should artifacts or archaeological features be encountered during project activities, work shall cease and the Alabama Historical Commission and the Mobile District shall be consulted immediately.

U.S. Army Corps of Engineers Telephone: (251) 694-3873
Alabama Historical Commission Telephone: (334) 242-3184

h. As mitigation for project impacts, the permittee shall purchase appropriate credits from a local approved mitigation bank to offset the loss of 0.31 acre of low quality wetlands. Prior to commencement of construction activities authorized by this permit, the permittee shall provide written proof of purchase of credits to the Mobile District Office.

Enclosed to this verification that your project is authorized under a NWP is a preliminary jurisdictional determination (JD) and a Notification of Administrative Appeal Options and Process fact sheet.

This verification is valid until the NWP is modified, reissued or revoked. All of the existing NWPs are scheduled to be modified, reissued or revoked prior to March 18, 2012. It is incumbent upon you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant NWP is modified or revoked, you will have 12

months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP.

This letter of authorization does not obviate the necessity to obtain any other Federal, State or local permits which may be required. Please note you are also required to submit a signed certification regarding the completed work and any required mitigation. The enclosed Compliance Certification form must be completed and returned to this office within 60 days of completion of the work authorized.

Please contact me at (251) 690-3184, if you have any questions. For additional information about our Regulatory Program, visit our web site at: www.sam.usace.army.mil/rd/reg and please take a moment to complete our customer satisfaction survey while you're there. Your responses are appreciated and will allow us to improve our services.

Sincerely,



Eric Buckelew
Project Manager
Coastal Branch
Regulatory Division

Enclosures

Copy Furnished:

PPM Consultants, Inc.

✓ Attention: Mr. Lee Rodgers

30704 Sgt. E. I. Boots Thomas Drive

Spanish Fort, Alabama 36527

ADEM-Coastal Facilities

Attention: Mr. Scott Brown

Coastal Area Division

4171 Commanders Drive

Mobile, Alabama 36615

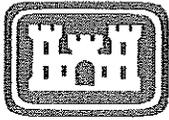
When the structures or work authorized by this NWP (**SAM-2009-01252-JEB**) are still in existence at the time the property is transferred, the terms and conditions of this NWP, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this NWP and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE)

(DATE)

Enclosure 1

COMPLIANCE CERTIFICATION



**U.S. Army Corps of Engineers
Mobile District**

Permit Number: **SAM-2010-01252-JEB**

Name of Permittee: **CITY OF MOBILE**

Date of Issuance: **DECEMBER 27, 2010**

Upon completion of the activity authorized by this permit and any mitigation required by the permit, please sign this certification and return it to the following address:

U.S. Army Corps of Engineers
Mobile District
Regulatory Division
Inland Branch
Post Office Box 2288
Mobile, Alabama 36628-0001

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with all terms and conditions of this permit the permit is subject to permit suspension, modification, or revocation and you are subject to an enforcement action by this office.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit and the required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

ATTACHMENT

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): 12/23/10

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:
City of Mobile
Attention: Ms. Ray Richardson
200 Government Street, 2nd Floor
Mobile, Alabama 36602

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: Mobile District, City of Mobile, SAM-2010-01252-JEB

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:
Preliminary JD for construction of a fire station, Mobile County, AL.

(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: AL County/parish/borough: Mobile City: Theodore
Center coordinates of site (lat/long in degree decimal format): Lat. 30.5438°N, Long. 88.1690°W.

Universal Transverse Mercator: 16 387869E 3379627N

Name of nearest waterbody: Muddy Creek

Identify (estimate) amount of waters in the review area:

Non-wetland waters: linear feet: width (ft) and/or acres.

Cowardin Class:

Stream Flow:

Wetlands: 0.31 acres.

Cowardin Class: Palustrine

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal:

Non-Tidal:

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

Office (Desk) Determination. Date:

Field Determination. Date(s): 9/23/10

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply

- checked items should be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: PPM Consultants, Inc.

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

Office concurs with data sheets/delineation report.

Office does not concur with data sheets/delineation report.

Data sheets prepared by the Corps:

Corps navigable waters' study:

U.S. Geological Survey Hydrologic Atlas:

USGS NHD data.

USGS 8 and 12 digit HUC maps.

U.S. Geological Survey map(s). Cite scale & quad name:

USDA Natural Resources Conservation Service Soil Survey.

Citation:

National wetlands inventory map(s). Cite name: ORM Database .

State/Local wetland inventory map(s):

FEMA/FIRM maps:

100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)

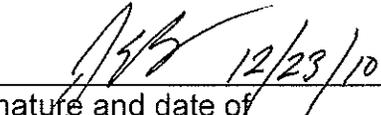
Photographs: Aerial (Name & Date): Google Earth 2010.

or Other (Name & Date): Bing Maps 2010.

Previous determination(s). File no. and date of response letter:

Other information (please specify):

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.



Signature and date of
Regulatory Project Manager
(REQUIRED)

Signature and date of
person requesting preliminary JD
(REQUIRED, unless obtaining
the signature is impracticable)

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND
REQUEST FOR APPEAL**

Applicant: CITY OF MOBILE	File Number: SAM-2010-01252-JEB	Date: 12/27/2010
Attached is:		See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
	PERMIT DENIAL	C
	APPROVED JURISDICTIONAL DETERMINATION	D
XX	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://usace.army.mil/inet/functions/cw/cccw/reg> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

**MR. ERIC BUCKELEW
CESAM-RD-C
U.S. ARMY CORPS OF ENGINEERS
POST OFFICE BOX 2288
MOBILE, ALABAMA 36601-2228
(251) 690-2658**

If you only have questions regarding the appeal process you may also contact:

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.

Date:

Telephone number:

REGULATORY PROGRAM SURVEY

Welcome to the USACE Regulatory Survey your feedback is very important to help us better serve the needs of our clients. To get started please fill in the information below.

The Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0710-00-12) 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR APPLICATION TO THE ABOVE ADDRESS. RETURN COMPLETED APPLICATION TO THE ADDRESS SHOWN ON THE APPLICATION INSTRUCTION SHEET.

We at the U.S. Army Corps of Engineers Regulatory Branch are committed to improving service to our customers and would like to know how well we have been doing. Who are our customers? You are our **customers** if you submitted a permit application, requested a jurisdictional determination or wetland delineation, or scheduled a pre-application meeting with us. **Other customers** include those of you who receive our Public Notice and/or commented on a particular project or our work in general, because of our interest in the Regulatory Program. To identify how we can better serve you, we need your help. Please take the time to fill out this brief survey and mail it back to us. Your honest opinions will help us determine areas in which we need to improve. For each question, please indicate the level of service you received by marking the appropriate number on a scale from 1-5, with 1 being (dissatisfied) and 5 being high (very satisfied). If the question does not apply to you, simply mark N/A. Thank you for your time and comments! Response to this survey is VOLUNTARY. If you choose not to respond, it will not affect any current or future dealings you may have with the USACE in any way.

Eng Form 5065, Feb 97; (Proponent: CECW-OR); Approved: 19 August 2002; OMB NO. 0710-0012,

PRIVACY AC STATEMENT

Authorities: The government Performance and Results Act of 1993 and Executive Order (EO) 12862, 'Setting Customer Services Standards', dated September 11, 1993. Purpose: To determine the quality of services our customer expect, as well as their satisfaction with USACE's existing service. Information provide on form will be used in evaluating their performance of the Corps Regulatory Program. Routine Uses: This information may be shared with the Office of Management and Budget, member of Congress, and other federal, state, and local government.

Information About You

Fullname: _____

Address: _____

Phone: _____

Can we contact you?: Yes
 No

Please indicate the nature of your Business: (if applicable, check more than one.)

- | | |
|---|--|
| <input type="checkbox"/> Property Owner | <input type="checkbox"/> Sand/Gravel |
| <input type="checkbox"/> Flood/Water Control District | <input type="checkbox"/> Consultant |
| <input type="checkbox"/> Civic or Trade Organization | <input type="checkbox"/> Silviculture |
| <input type="checkbox"/> Adjacent Property Owner | <input type="checkbox"/> Public Agency |
| <input type="checkbox"/> Federal/State/Local | <input type="checkbox"/> Media |
| <input type="checkbox"/> Public Agency Applicant | <input type="checkbox"/> Law Office |
| <input type="checkbox"/> Member of Legislature | <input type="checkbox"/> Mining |
| <input type="checkbox"/> Personal/Private Project | <input type="checkbox"/> Native-American |
| <input type="checkbox"/> Conservation Organization | <input type="checkbox"/> Other: |
| <input type="checkbox"/> Farming/Ranching | |

What Service(s) Did You Seek From the Corps? (if applicable, check more than one.)

- | | |
|--|---|
| <input type="checkbox"/> General Information | <input type="checkbox"/> Jurisdictional/Wetland Determination |
| <input type="checkbox"/> Pre-application Consultation | |
| <input type="checkbox"/> Nationwide General Permit | <input type="checkbox"/> Resolution of Permit |
| <input type="checkbox"/> Regional or programmatic General permit | <input type="checkbox"/> Regulatory Program Presentation |
| <input type="checkbox"/> Standard Individual | |
| <input type="checkbox"/> Commented on Public/Notice/Permit Application | <input type="checkbox"/> Letter of Permission |
| <input type="checkbox"/> Other: | |

Which Corps Office did you deal with? (if applicable, check more than one)

- | | |
|---|-------------------------------------|
| <input type="checkbox"/> South Atlantic Division HQ | <input type="checkbox"/> Charleston |
| <input type="checkbox"/> Jacksonville | <input type="checkbox"/> Mobile |
| <input type="checkbox"/> Savannah | <input type="checkbox"/> Wilmington |

Please read each statement carefully. Please respond to the questions below, where a 5 indicates strong agreement and a 1 indicates strong disagreement. You may also select Don't Know or Not Applicable.

For Applicants & Others Requiring Authorizations

1. Do you think you received your Corps permit Decision in a reasonable amount of time?

- 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA ○ DK ○

2. Do you think you received your Corps jurisdictional determination in a reasonable amount of time?

- 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA ○ DK ○

3. If we recommended/required project changes/modifications to reduce impacts, did we clearly explain the reason why? 1 2 3 4 5 NA DK
4. If we recommended/required project changes/modifications to reduce impacts, did the changes seem reasonable to you? 1 2 3 4 5 NA DK
5. If we denied your permit, did we clearly explain the reason why? 1 2 3 4 5 NA DK
6. For enforcement cases, did our office clearly and professionally explain the basis for the enforcement action (e.g., what work we believe you performed without authorization?) 1 2 3 4 5 NA DK
7. For enforcement cases, did our office include options for resolution? 1 2 3 4 5 NA DK

For "Other" Customers

1. For Permitted actions, was the permit effective in achieving appropriate protection/mitigation for impacts to aquatic resources? 1 2 3 4 5 NA DK
2. For enforcement actions, did the Corps require appropriate compensation/restoration for impacts to aquatic resources? 1 2 3 4 5 NA DK

For Applicants & "Other" Customers

1. Did the Corps representative act professionally and treat you with courtesy? 1 2 3 4 5 NA DK
2. Did the Corps provide sufficient information to allow you to complete the application form, comment on public notice, or otherwise, evaluate our work? 1 2 3 4 5 NA DK

3. Did we respond to your letters and telephone calls in a reasonable amount of time? 1 2 3 4 5 NA DK

4. Did the Corps representative answer your questions clearly, giving you accurate information about our Regulatory Program? 1 2 3 4 5 NA DK

5. What is the overall rating of the level of service provided by the Corps of Engineers Regulatory Program? 1 2 3 4 5 NA DK

Please use this space to enter any additional comments. This will complete your survey.

Name of the Person you contacted in our office? _____

Do you have any comments for us?

APPENDIX D
WETLANDS

July 9, 2010

Mr. Bryan S. Jones
PPM Consultants, Inc.
5555 Bankhead Highway
Birmingham, Alabama 35210



Subject: Wetland Delineation, City of Mobile, Theodore Property
Bellingrath Rd. & Old Military Rd., Theodore, Mobile Co., Alabama

Dear Mr. Jones:

Wetland Resources has completed the wetland delineation on this 2.82-acre tract located between Bellingrath Rd. and Old Military Rd. in Theodore. This property is in the northwest quarter of Section 10, Township 6 South, Range 2 West, Mobile County, Alabama.

In addition to some man-made ditches that have wetland indicators present, I found that other natural wetlands occur on the property. Wetland boundaries were marked with survey flagging printed with the words WETLAND BOUNDARY. Flags along each line were sequentially numbered. Findings were documented using the Corps of Engineers' wetland determination data form, copies of which are enclosed.

Wetland boundaries were located using a Trimble Pathfinder ProXH GPS unit set to sub-meter tolerances. Since the property has not been surveyed and no known points, such as property corners, could be identified, the county's parcel boundary layer taken from their GIS system was used to make the enclosed wetland map. The county shows the subject area as part of a larger tract. For better accuracy, the GPS coordinates can be provided to the project surveyor for overlay on the property plat, or the surveyor may prefer to locate the wetland boundary flags himself.

The ditches on the property connect the larger of the two wetland areas to jurisdictional waters of the U.S., meaning this wetland is subject to regulation under Section 404 of the Clean Water Act. It is possible that the smaller wetland area will be considered isolated and non-jurisdictional. It is unclear at this point whether the ditches themselves will be considered wetlands or other waters subject to regulation and possibly mitigation. I will need to consult with Corps regulatory staff to get clarification.

If it will be necessary to impact jurisdictional areas on the property, a Corps permit will be required. If total impacts are 0.5 acre or less, the project should fit a Nationwide Permit. With this type of permit, no public notice is issued and the Corps has 45 days from the time a complete application package is submitted to issue the permit. If more than 0.5 acre of impact will occur, an Individual Permit will be required. The Corps will issue a 30-day public notice, other regulatory agencies will be involved, and the public will have an opportunity to comment on the project. We must demonstrate to the Corps avoidance and minimization of wetland impacts.

In either case, it is likely that a cultural resources assessment will be required in order to comply with Section 106 of the National Historic Preservation Act. This assessment must be done by a professional archaeologist. Findings must be coordinated with the Corps and the Alabama Historical Commission.

Enclosed is a proposal for providing Corps of Engineers permitting services. I appreciate the opportunity to work with PPM Consultants on this important project. If you have any questions or would like to discuss the wetland delineation or permitting issues, please do not hesitate to contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "Gena Todia".

Gena Todia

Enclosures

Theodore Property

Site: +/- AC
Total Wetlands: +/- 0.49 AC
Ditch: 0.26 AC (+/-1032 LF)



Old Military Road

0.43 AC

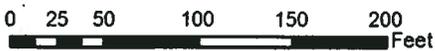
0.06 AC

Legend

-  Wetlands
-  Ditch
-  Parcel
-  Local Parcels

08 JULY 2010

City of Mobile
-88.168922, 30.543619
Mobile County, AL



This map is not a survey. Wetland boundaries were located using a Trimble Pathfinder ProXH GPS unit set to sub-foot tolerances. For more information, please contact Wetland Resources at 251-928-6157.



WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: City of Mobile Theodore Property City/County: Theodore/Mobile Sampling Date: 3 Jul 2010
 Applicant/Owner: City of Mobile State: AL Sampling Point: U-1
 Investigator(s): Gena Todia - Wetland Resources Section, Township, Range: S 10, T 6 S, R 2 W
 Landform (hillslope, terrace, etc.): ridges Local relief (concave, convex, none): none Slope (%): <1%
 Subregion (LRR or MLRA): LRR T Lat: 30.54389 Long: 88.169 Datum: WGS84
 Soil Map Unit Name: Benndale sandy loam, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: Sample point is located at the north end of the property, central area.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required: check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) (LRR U) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Sparsely Vegetated Concave Surface (B8) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>n/a</u> Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>>20</u> Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>>20</u>	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: FAC-Neutral Test is negative - 0:1.	

VEGETATION – Use scientific names of plants.

Sampling Point: U-1

<u>Tree Stratum</u> (Plot sizes: <u>30 ft. radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Pinus taeda</u>	<u>5.0</u>	<u>yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83</u> (A/B)	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>5.0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____	
<u>Sapling Stratum</u> (<u>30 ft. radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Sapium sebiferum</u>	<u>5.0</u>	<u>yes</u>	<u>FAC</u>		Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>5.0</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present.	
<u>Shrub Stratum</u> (<u>30 ft. radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Myrica cerifera</u>	<u>15.0</u>	<u>yes</u>	<u>FAC</u>		Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
2. <u>Sapium sebiferum</u>	<u>10.0</u>	<u>yes</u>	<u>FAC</u>		
3. <u>Baccharis halimifolia</u>	<u>2.0</u>	<u>no</u>	<u>FAC</u>		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>27.0</u> = Total Cover				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	
<u>Herb Stratum</u> (<u>30 ft. radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Imperata cylindrica</u>	<u>40.0</u>	<u>yes</u>	<u>UPL</u>		
2. <u>Aster dumosus</u>	<u>10.0</u>	<u>no</u>	<u>FAC</u>		
3. <u>Ludwigia sp.</u>	<u>5.0</u>	<u>no</u>	<u>NA</u>		
4. <u>Rhexia mariana</u>	<u>5.0</u>	<u>no</u>	<u>FACW</u>		
5. <u>Rhexia virginica</u>	<u>2.0</u>	<u>no</u>	<u>FACW</u>		
6. <u>Andropogon virginicus</u>	<u>0.5</u>	<u>no</u>	<u>FAC</u>		
7. <u>Rhynchospora caduca</u>	<u>0.5</u>	<u>no</u>	<u>OBL</u>		
8. <u>Solidago sp.</u>	<u>0.1</u>	<u>no</u>	<u>NA</u>		
9. <u>Paspalum urvillei</u>	<u>0.1</u>	<u>no</u>	<u>FAC</u>		
10. <u>Verbena brasiliensis</u>	<u>0.1</u>	<u>no</u>	<u>FAC</u>		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
<u>63.3</u> = Total Cover					
<u>Woody Vine Stratum</u> (<u>30 ft. radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Lonicera japonica</u>	<u>5.0</u>	<u>yes</u>	<u>FAC</u>		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
<u>5.0</u> = Total Cover					
Remarks: (If observed, list morphological adaptations below).					

SOIL

Sampling Point: U-1

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-1.5	10YR3/2	100					SALM	
1.5-3	10YR4/2	70	10YR6/6	30	C	M	SALM	RELICT ?
3-7	10YR5/2	50					SALM	NO REDOX FEATURES
3-7	10YR6/6	50					SALM	NOT A REDOX FEATURE
7-11	10YR5/6	100					SALM	
11-20	10YR6/6	95					SALM	
11-20	10YR7/2	5					SALM	NOT A REDOX FEATURE

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

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Muck Presence (A8) (LRR U)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 1 cm Muck (A9) (LRR P, T)	<input type="checkbox"/> Marl (F10) (LRR U)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Ochric (F11) (MLRA 151)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T)
<input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A)	<input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U)
<input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR O, S)	<input type="checkbox"/> Delta Ochric (F17) (MLRA 151)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
<input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed): Type: <u>none observed</u> Depth (inches): <u>n/a</u>	Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>
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Remarks:

The soil in this area appears to have been disturbed. The possibly relict redox features in the 1.5-3 in. layer may be due to soil compaction. The high-chroma colors within the otherwise low-chroma 3-7 in. layer appears to be transitional between an A and a B horizon and are not redox features.

SALM = Sandy Loam

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: City of Mobile Theodore Property City/County: Theodore/Mobile Sampling Date: 3 Jul 2010
 Applicant/Owner: City of Mobile State: AL Sampling Point: U-2
 Investigator(s): Gena Todia - Wetland Resources Section, Township, Range: S 10, T 6 S, R 2 W
 Landform (hillslope, terrace, etc.): ridges Local relief (concave, convex, none): none Slope (%): <1%
 Subregion (LRR or MLRA): LRR T Lat: 30.54344 Long: 88.16894 Datum: WGS84
 Soil Map Unit Name: Benndale sandy loam, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: Sample point is located in the north central wooded area, north of the east/west ditch that runs through the middle of the property.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Water-Stained Leaves (B9) ___ High Water Table (A2) ___ Aquatic Fauna (B13) ___ Saturation (A3) ___ Marl Deposits (B15) (LRR U) ___ Water Marks (B1) ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Drift Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7) ___ Other (Explain in Remarks)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>n/a</u> Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>>16</u> Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>>16</u>	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: FAC-Neutral Test is negative - 0:0.	

VEGETATION – Use scientific names of plants.

Sampling Point: U-2

Tree Stratum (Plot sizes: <u>30 ft. radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Quercus nigra</u>	<u>80.0</u>	<u>yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>Sapium sebiferum</u>	<u>10.0</u>	<u>no</u>	<u>FAC</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
<u>90.0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling Stratum (<u>30 ft. radius</u>)				
1. <u>Sapium sebiferum</u>	<u>9.0</u>	<u>yes</u>	<u>FAC</u>	
2. <u>Quercus nigra</u>	<u>8.0</u>	<u>yes</u>	<u>FAC</u>	
3. <u>Myrica cerifera</u>	<u>5.0</u>	<u>yes</u>	<u>FAC</u>	
4. _____				
5. _____				
<u>22.0</u> = Total Cover				
Shrub Stratum (<u>30 ft. radius</u>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Quercus nigra</u>	<u>10.0</u>	<u>yes</u>	<u>FAC</u>	
2. <u>Sapium sebiferum</u>	<u>2.0</u>	<u>no</u>	<u>FAC</u>	
3. <u>Ligustrum sinense</u>	<u>2.0</u>	<u>no</u>	<u>FAC</u>	
4. _____				
5. _____				
6. _____				
<u>14.0</u> = Total Cover				
Herb Stratum (<u>30 ft. radius</u>)				Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.
1. <u>Quercus nigra</u>	<u>2.0</u>	<u>no</u>	<u>FAC</u>	
2. <u>Myrica cerifera</u>	<u>0.5</u>	<u>no</u>	<u>FAC</u>	
3. <u>Sapium sebiferum</u>	<u>0.1</u>	<u>no</u>	<u>FAC</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
<u>2.6</u> = Total Cover				
Woody Vine Stratum (<u>30 ft. radius</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
1. <u>Smilax sp.</u>	<u>0.1</u>	<u>no</u>	<u>NA</u>	
2. _____				
3. _____				
4. _____				
5. _____				
<u>0.1</u> = Total Cover				

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

SOIL

Sampling Point: U-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-1.5	10YR5/2	95	10YR5/4	5	C	M	LMSA	RELICT REDOX FEATURES
1.5-3	10YR6/4	55					LMSA	
1.5-3	10YR5/2	40					LMSA	NOT A REDOX FEATURE
1.5-3	10YR8/1	5					LMSA	NOT A REDOX FEATURE
3-13	10YR5/6	100					LMSA	
13-16	10YR5/6	95					LMSA	
13-16	2.5YR5/6	5						PLINTHITE

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

Hydric Soil Indicators:

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

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

Indicators for Problematic Hydric Soils³:

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

³Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):

Type: none observed
 Depth (inches): n/a

Hydric Soil Present? Yes No

Remarks:

LMSA = Loamy Sand

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: City of Mobile Theodore Property City/County: Theodore/Mobile Sampling Date: 3 Jul 2010
 Applicant/Owner: City of Mobile State: AL Sampling Point: U-3
 Investigator(s): Gena Todia - Wetland Resources Section, Township, Range: S 10, T 6 S, R 2 W
 Landform (hillslope, terrace, etc.): ridges Local relief (concave, convex, none): none Slope (%): <1%
 Subregion (LRR or MLRA): LRR T Lat: 30.54294 Long: 88.16894 Datum: WGS84
 Soil Map Unit Name: Benndale sandy loam, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: Sample point is located in the south central wooded area, south of the east/west ditch that runs through the middle of the property.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Water-Stained Leaves (B9) ___ High Water Table (A2) ___ Aquatic Fauna (B13) ___ Saturation (A3) ___ Marl Deposits (B15) (LRR U) ___ Water Marks (B1) ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Drift Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7) ___ Other (Explain in Remarks)	Secondary Indicators (minimum of two required) ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>n/a</u> Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>>20</u> Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>>20</u>	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: FAC-Neutral Test is negative - 0:1.	

VEGETATION – Use scientific names of plants.

Sampling Point: U-3

	Absolute % Cover	Dominant Species?	Indicator Status		
Tree Stratum (Plot sizes: <u>30 ft. radius</u>)					
1. <u>Quercus virginiana</u>	<u>70.0</u>	<u>yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>85.7%</u> (A/B)	
2. <u>Quercus nigra</u>	<u>25.0</u>	<u>yes</u>	<u>FAC</u>		
3. <u>Carya illinoensis</u>	<u>15.0</u>	<u>no</u>	<u>FAC</u>		
4. <u>Prunus serotina</u>	<u>10.0</u>	<u>no</u>	<u>FACU</u>		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>120.0</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____	
Sapling Stratum (<u>30 ft. radius</u>)					
1. <u>Quercus nigra</u>	<u>20.0</u>	<u>yes</u>	<u>FAC</u>		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
<u>20.0</u> = Total Cover				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
Shrub Stratum (<u>30 ft. radius</u>)					
1. <u>Ligustrum sinense</u>	<u>35.0</u>	<u>yes</u>	<u>FAC</u>		
2. <u>Quercus nigra</u>	<u>5.0</u>	<u>no</u>	<u>FAC</u>		
3. <u>Cinnamomum camphora</u>	<u>5.0</u>	<u>no</u>	<u>FACU</u>		
4. <u>Magnolia grandiflora</u>	<u>3.0</u>	<u>no</u>	<u>FAC</u>		
5. <u>Carya illinoensis</u>	<u>1.0</u>	<u>no</u>	<u>FAC</u>		
<u>49.0</u> = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height.	
Herb Stratum (<u>30 ft. radius</u>)					
1. <u>Lygodium japonicum</u>	<u>3.0</u>	<u>yes</u>	<u>FAC</u>		
2. <u>Ligustrum sinense</u>	<u>3.0</u>	<u>yes</u>	<u>FAC</u>		
3. <u>Prunus serotina</u>	<u>1.0</u>	<u>no</u>	<u>FACU</u>		
4. <u>Cinnamomum camphora</u>	<u>0.5</u>	<u>no</u>	<u>FACU</u>		
5. <u>Asplenium platyneuron</u>	<u>0.1</u>	<u>no</u>	<u>FACU</u>		
<u>7.6</u> = Total Cover				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	
Woody Vine Stratum (<u>30 ft. radius</u>)					
1. <u>Vitis rotundifolia</u>	<u>5.0</u>	<u>yes</u>	<u>FAC</u>		
2. <u>Rubus trivialis</u>	<u>0.5</u>	<u>no</u>	<u>FAC</u>		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
<u>5.5</u> = Total Cover					

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

SOIL

Sampling Point: U-3

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-0.5	10YR4/2	100					LMSA	
0.5-7	10YR4/2	70					LMSA	
0.5-7	10YR6/6	30					LMSA	Not redox; fill or disturbed
7-8.5	10YR3/1	90					LMSA	Possibly original surface
7-8.5	10YR4/2	10					LMSA	Disturbed; mixed
8.5-16	10YR5/3	98	10YR4/4	2	C	M	LMSA	
16-20	10YR5/4	100						

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

Hydric Soil Indicators:

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

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

Indicators for Problematic Hydric Soils³:

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

³Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed):

Type: none observed
 Depth (inches): n/a

Hydric Soil Present? Yes No

Remarks:

LMSA = Loamy Sand

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: City of Mobile Theodore Property City/County: Theodore/Mobile Sampling Date: 3 Jul 2010
 Applicant/Owner: City of Mobile State: AL Sampling Point: W-1
 Investigator(s): Gena Todia - Wetland Resources Section, Township, Range: S 10, T 6 S, R 2 W
 Landform (hillslope, terrace, etc.): ridges Local relief (concave, convex, none): concave Slope (%): <1%
 Subregion (LRR or MLRA): LRR T Lat: 30.54347 Long: 88.16906 Datum: WGS84
 Soil Map Unit Name: Benndale sandy loam, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: Sample point is located in the north central area, north of the east/west ditch that runs through the middle of the property, and inside wetland line # 1.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) ___ High Water Table (A2) ___ Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) ___ Marl Deposits (B15) (LRR U) ___ Water Marks (B1) ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres on Living Roots (C3) <input checked="" type="checkbox"/> ___ Drift Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7) ___ Other (Explain in Remarks)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) <input checked="" type="checkbox"/> Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>n/a</u> Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>>20</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>12</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: FAC-Neutral Test is positive - 2:0.	

VEGETATION – Use scientific names of plants.

Sampling Point: W-1

Tree Stratum (Plot sizes: <u>15 ft. radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Quercus nigra</u>	<u>15.0</u>	<u>yes</u>	<u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>7</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet: <u>15.0</u> = Total Cover Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
Sapling Stratum (<u>15 ft. radius</u>)				
1. <u>Quercus nigra</u>	<u>5.0</u>	<u>yes</u>	<u>FAC</u>	
2. <u>Sapium sebiferum</u>	<u>3.0</u>	<u>yes</u>	<u>FAC</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
Shrub Stratum (<u>15 ft. radius</u>)				
1. <u>Ligustrum sinense</u>	<u>5.0</u>	<u>yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Baccharis halimifolia</u>	<u>5.0</u>	<u>yes</u>	<u>FAC</u>	
3. <u>Myrica cerifera</u>	<u>0.5</u>	<u>no</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
Herb Stratum (<u>15 ft. radius</u>)				
1. <u>Woodwardia areolata</u>	<u>20.0</u>	<u>yes</u>	<u>OBL</u>	Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. <u>Ludwigia sp.</u>	<u>20.0</u>	<u>yes</u>	<u>FACW</u>	
3. <u>Rhexia virginica</u>	<u>5.0</u>	<u>no</u>	<u>FACW</u>	
4. <u>Rhexia mariana</u>	<u>5.0</u>	<u>no</u>	<u>FACW</u>	
5. <u>Quercus nigra</u>	<u>2.0</u>	<u>no</u>	<u>FAC</u>	
6. <u>Juncus marginatus</u>	<u>0.1</u>	<u>no</u>	<u>FACW</u>	
7. <u>Sapium sebiferum</u>	<u>0.1</u>	<u>no</u>	<u>FAC</u>	
8. <u>Cyperus sp.</u>	<u>0.1</u>	<u>no</u>	<u>NA</u>	
9. <u>Mikania scandens</u>	<u>0.1</u>	<u>no</u>	<u>FACW</u>	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
Woody Vine Stratum (<u>15 ft. radius</u>)				
1. <u>none</u>	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>52.4</u> = Total Cover				
<u>0.0</u> = Total Cover				

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

SOIL

Sampling Point: W-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-1	10YR4/1	100					SALM	
1-12	10YR4/1	90	10YR3/3	10	C	M	SALM	
12-20	10YR4/1	60					SALM	
12-20	10YR3/1	40						Not redox; looks mixed up

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

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR S, T, U)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR S, T, U)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR O)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5)	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Organic Bodies (A6) (LRR P, T, U)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> 5 cm Mucky Mineral (A7) (LRR P, T, U)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Muck Presence (A8) (LRR U)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 1 cm Muck (A9) (LRR P, T)	<input type="checkbox"/> Marl (F10) (LRR U)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Ochric (F11) (MLRA 151)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR O, P, T)
<input type="checkbox"/> Coast Prairie Redox (A16) (MLRA 150A)	<input type="checkbox"/> Umbric Surface (F13) (LRR P, T, U)
<input type="checkbox"/> Sandy Mucky Mineral (S1) (LRR O, S)	<input type="checkbox"/> Delta Ochric (F17) (MLRA 151)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Reduced Vertic (F18) (MLRA 150A, 150B)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149A)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
<input type="checkbox"/> Dark Surface (S7) (LRR P, S, T, U)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if observed): Type: <u>none observed</u> Depth (inches): <u>n/a</u>	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	--

Remarks:
 SALM = Sandy Loam

December 16, 2010

Eric Buckelew
Biologist
Regulatory Branch
US Army Corps of Engineers Mobile District
Post Office Box 2288
Mobile, Alabama 36628-0001

**RE: Proposed Theodore Fire Station
Theodore, Alabama
Wetlands Minimization and Avoidance Rational
Project No. 10-213410**

Dear Mr. Buckelew:

PPM Consultant, Inc. (PPM) is submitting this Wetlands Minimization and Avoidance Rational letter on behalf of The City of Mobile. The subject site consists of approximately 2.82 acres. The wetlands areas to be impacted are approximately 0.31 acres of wetlands and 272 linear feet of drainage ditch. Due to the limited lot size and the location of the wetlands and drainage ditch on the subject site, no reasonable minimization or avoidance could be achieved and still maintain the specification for the fire station that could fulfill the community's needs.

If you have any questions regarding this project, please contact me at 205-335-5748.

Sincerely,



Bryan Jones
Senior Environmental Consultant

November 8, 2010

Eric Buckelew
Biologist
Regulatory Branch
US Army Corps of Engineers Mobile District
P.O. Box 2288
Mobile, AL 36628-0001

**RE: Proposed Theodore Fire Station
Theodore, Alabama
Wetlands Mitigation Plan**

Dear Mr. Buckelew:

PPM Consultants, Inc. (PPM), on behalf of The City of Mobile, is preparing an Environmental Assessment (EA) for the above referenced proposed development. This assessment is being conducted for consideration of funding through the Federal Emergency Management Agency Assistance to Firefighters Grant and Fire Station Construction Grant for The City of Mobile. During the wetlands review phase of the EA, it was determined that there are approximately 0.31 acres of wetlands and 0.25 acres (1032 linear feet) of drainage ditches located on the proposed development.

The appropriate United States Army Corps of Engineers (USACE) wetlands fill application was completed and submitted on September 3, 2010. The City of Mobile will be purchasing Wetlands Credits from Wetland Solutions Lillian Swamp Mitigation Bank in Baldwin County, Alabama. This bank is not yet available; therefore a deposit will be placed for the credits in anticipation of USACE approval. Once final authorization is given to the Lillian Swamp Mitigation Bank by the USACE, then the remaining purchase amount will be paid and the credits will be issued.

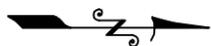
If you have any questions regarding this project, please contact me at 205-335-5748.

Sincerely,

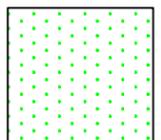
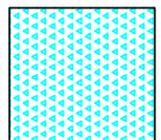


Bryan Jones
Senior Environmental Consultant

NOT FOR CONSTRUCTION



CAUTION
 THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER HAS CONDUCTED VISUAL SURVEYS AND HAS NOT CONDUCTED ANY OTHER INVESTIGATION. CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

	WETLANDS
	DITCH
	AREA TO BE GRADED

Wetland/waters areas taken from:



Base map taken from:



thompson
 ENGINEERING
 2970 COTTAGE HILL RD., STE. 190
 MOBILE, ALABAMA 36608

EXISTING NAME: C.S.C.
 CITY OF MOBILE FIRE DEPARTMENT
 7050 MILITARY ROAD THEODORE, ALABAMA
 CITY OF MOBILE PROJECT NO. 71-004-10



EXISTING SITE W/ WETLANDS
 NEW FIRE STATION
 CITY OF MOBILE FIRE DEPARTMENT
 7050 MILITARY ROAD THEODORE, ALABAMA

Design By:	TLR
Drawn By:	TLR
Checked By:	TLR
Date:	
Scale:	

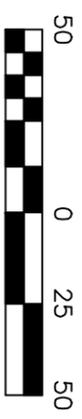
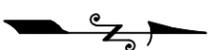


PPM CONSULTANTS, INC.
 30704 SGT. E. I. "BOOTS" THOMAS DRIVE
 SPANISH FORT, ALABAMA 36526

EXCEEDING CLIENTS EXPECTATIONS

Drawling No. **W1**

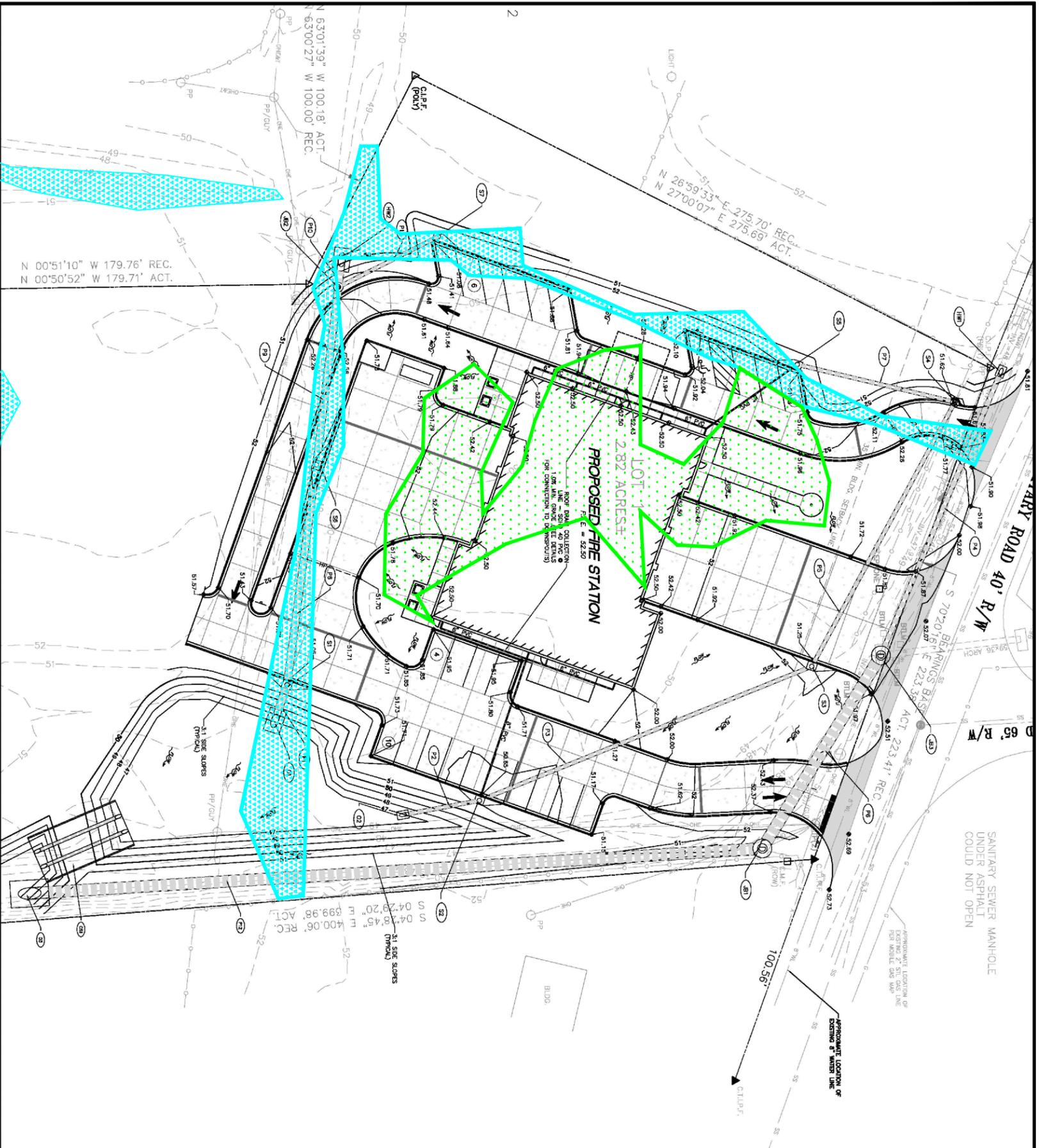
NOT FOR CONSTRUCTION



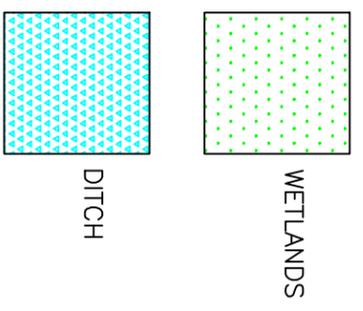
SCALE: 1" = 50'



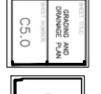
CAUTION
 THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND CHARACTER OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE PROJECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



Wetland/waters areas taken from:



Base map taken from:



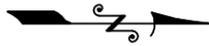
Drawn By:	JL
Check By:	JL
Date:	04/27/16
Scale:	AS SHOWN

PROPOSED DEVELOPED SITE W/ WETLANDS
 NEW FIRE STATION
 CITY OF MOBILE FIRE DEPARTMENT
 7050 MILITARY ROAD THEODORE, ALABAMA



DRAWING NO.
W2

NOT FOR CONSTRUCTION



CAUTION
 THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DEPTH AND THE LAYOUT OF ALL UTILITIES WITHIN THE LIMITS OF THE CONTRACT. THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



Wetland/waters areas taken from:

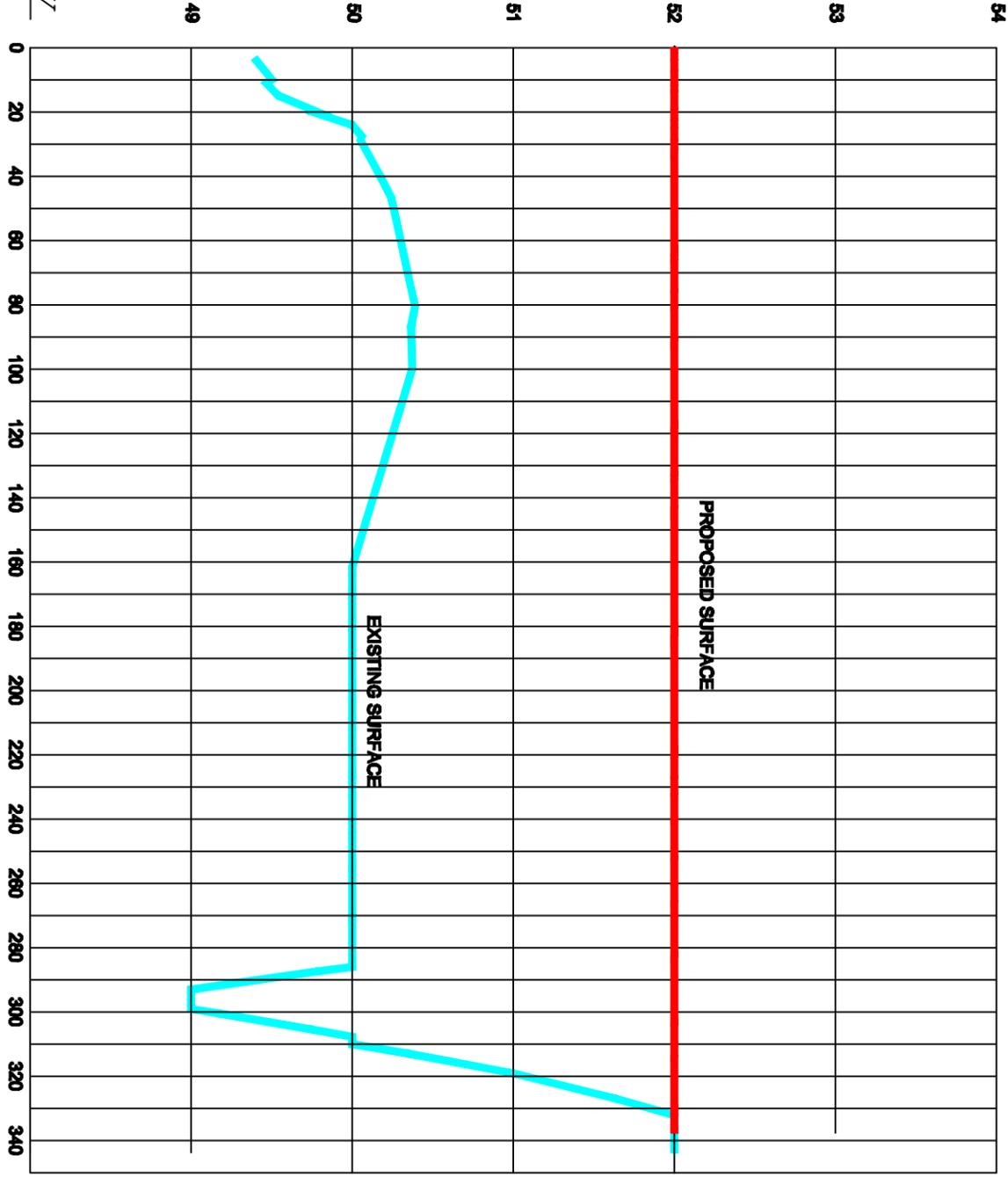


Base map taken from:

thompson
 ENGINEERING

2070 COTTAGE HILL RD., STE. 190
 MOBILE, ALABAMA 36605

NEW FIRE STATION
 CITY OF MOBILE FIRE DEPARTMENT
 7050 MILITARY ROAD THEODORE, ALABAMA



DATUM ELEV
 48.00
 GROUP PROPOSED/EXISTING
 SECTION A-A'

CROSS SECTION A-A'

H= 1:50

V= 1:1

DESIGN BY:	JL
DRAWN BY:	JL
CHECKED BY:	JL
DATE:	
SCALE:	

PROFILE SECTION A-A'
 NEW FIRE STATION
 CITY OF MOBILE FIRE DEPARTMENT
 7050 MILITARY ROAD THEODORE, ALABAMA

PPM CONSULTANTS, INC.
 30704 SGT. E. L. "BOOTS" THOMAS DRIVE
 SPANISH FORT, ALABAMA 36588

EXCEEDING CLIENTS EXPECTATIONS

DRAWING NO.
W3

December 9, 2010

Eric Buckelew
Biologist
Regulatory Branch
US Army Corps of Engineers Mobile District
Post Office Box 2288
Mobile, Alabama 36628-0001

**RE: Proposed Theodore Fire Station
Theodore, Alabama
Wetlands area north of the subject property**

Dear Mr. Buckelew:

PPM Consultant, Inc. (PPM) is submitting this letter and figures on behalf of The City of Mobile, in response to the United States Army Corps of Engineers (USACE) Mobile District concerns regarding the impacts to the wetlands area north of the subject property should the wetland areas on the subject property be filled. During our last phone conversation you expressed some concerns that if a permit to fill was granted for the subject property, the wetlands areas north of the subject property would then possibly become an isolated wetlands areas. As you can see in Figures 1-3 the areas to the north of the subject are connected via a culvert to a ditch that runs along the north edge of the subject property. This ditch then makes a seventy-five degree turn and runs along the eastern edge of the subject property. The ditch then makes a ninety degree turn and runs along the southern portions of the adjoining property. The wetlands areas north of subject property have a connection to Waters of the U.S. without the wetlands areas on the subject property.

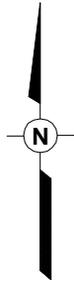
If you have any questions regarding this project, please contact me at 205-335-5748.

Sincerely,



Bryan Jones
Senior Environmental Consultant

Attachments: Figures 1-3



0 150 300

SCALE: 1"=300'
(Approximate)



PHOTO OF CULVERT CONNECTING THE WETLANDS TO NORTH OF THE SUBJECT SITE TO THE DRAINAGE DITCH THAT RUNS ALONG THE EAST SIDE OF THE PROPERTY.

Z:\City of Mobile\213410\EA\December\2010\213410-Ea-Dec2010.dwg, 1 culvert, 12/9/2010 1:27:44 PM, brian hicks



PPM CONSULTANTS, INC.

**CITY OF MOBILE
PROPOSED THEODORE FIRE STATION**
OLD MILITARY ROAD
THEODORE, ALABAMA

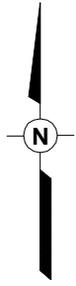
**CULVERT
CONNECTING WETLANDS TO THE NORTH
TO DRAINAGE DITCH**

FIGURE
NUMBER

1

DRAWN BY:
BWH
PROJECT NUMBER:
213410

DRAWN DATE:
12/09/10
BILLING GROUP:
EA



0 150 300

SCALE: 1"=300'
(Approximate)



PHOTO OF DRAINAGE DITCH RUNNING ALONG THE EAST SIDE OF THE PROPERTY.

Z:\City of Mobile\213410\EA\December\2010\213410-Ea-Dec2010.dwg, 2 ditch-east, 12/9/2010 1:28:12 PM, brian hicks



PPM CONSULTANTS, INC.

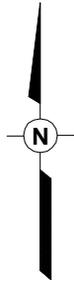
**CITY OF MOBILE
PROPOSED THEODORE FIRE STATION**
OLD MILITARY ROAD
THEODORE, ALABAMA

**DRAINAGE DITCH LOCATED ALONG THE
EASTERN PROPERTY LINE**

FIGURE
NUMBER

2

DRAWN BY: BWH	DRAWN DATE: 12/09/10
PROJECT NUMBER: 213410	BILLING GROUP: EA



0 150 300

SCALE: 1"=300'
(Approximate)



PHOTO OF DRAINAGE DITCH RUNNING ALONG THE SOUTH PORTIONS OF THE SITE THAT CONNECTS THE DITCH RUNNING ALONG THE EAST PORTION OF THE SITE



Z:\City of Mobile\213410\Ea\December\2010\213410-Ea-Dec2010.dwg, 3 ditch-south, 12/9/2010 1:28:41 PM, brian hicks



PPM CONSULTANTS, INC.

**CITY OF MOBILE
PROPOSED THEODORE FIRE STATION**
OLD MILITARY ROAD
THEODORE, ALABAMA

**DRAINAGE DITCH LOCATED ALONG THE
SOUTHERN PROPERTY LINE**

FIGURE
NUMBER

3

DRAWN BY:

BWH

DRAWN DATE:

12/09/10

PROJECT NUMBER:

213410

BILLING GROUP:

EA

APPENDIX E
FLOOD MAPS

APPENDIX F
ENDANGERED SPECIES

Environmental Review of Endangered Species, Cultural Resources and Wetlands

Proposed Theodore Fire Station
Section 10, Township 6 South, Range 2 West
Mobile County
Theodore, Alabama

Prepared for:
The City of Mobile

Prepared by:



PPM CONSULTANTS, INC.
30704 SGT. E.I. "BOOTS" THOMAS DRIVE
SPANISH FORT, ALABAMA 36527
(251) 990-9000

August 11, 2010

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1.0 INTRODUCTION.....	3
2.0 SITE LOCATION.....	3
3.0 PURPOSE.....	3
4.0 LIMITATIONS AND EXTENT OF ENVIRONMENTAL REVIEW	3
5.0 ENDANGERED SPECIES	3
6.0 JURISDICTIONAL WATERS OF THE U.S.....	4
7.0 HISTORIC PROPERTIES	5
8.0 CONCLUSION	5
9.0 ENVIRONMENTAL PROFESSIONAL SIGNATURE AND QUALIFICATIONS.....	6

FIGURES

Figure 1 – Topographic Map

Figure 2 – Aerial Photo

Figure 3 - Photographs

APPENDICES

Appendix A – Figures

Appendix B – EDR Report

1.0 INTRODUCTION

PPM Consultants was authorized by The City of Mobile on May 11, 2010 to conduct an Environmental Review for Endangered Species, Wetlands, and Cultural Resources. The review is to determine if the property is acceptable for development of the proposed Theodore Fire Station. In addition, this review is required to apply for funding through Federal Emergency Management Agency.

2.0 SITE LOCATION

The subject property consists of an approximate 2.82 acre parcel, which is located near the intersection of Bellingrath Road and Old Military Road East all lying in Section 10, Township 6 South, Range 2 West, Mobile County, Alabama. The area is shown on the U.S. Geological Survey (USGS) 7.5 Minute topographic map presented in Appendix A (**Figure 1, Topographic Map**).

3.0 PURPOSE

The purpose of this Environmental Review is to determine if future development of the subject property could potentially impact Threatened & Endangered Species, Cultural Resources, or Wetlands.

4.0 LIMITATIONS AND EXTENT OF ENVIRONMENTAL REVIEW

This Environmental Review is limited to Threatened & Endangered Species, Cultural Resources, and Wetlands. Any other potential environmental impacts to the subject property were not considered during this review.

PPM has obtained as much information as is reasonably ascertainable through an on-site inspection and research conducted by Environmental Data Resources Inc. (EDR). Information and opinions contained within this report were obtained from reliable and creditable sources. Responsibility for accuracy of such items furnished to the inspector cannot be assumed.

5.0 ENDANGERED SPECIES

EDR searched the databases of The Environmental Protection Agency Endangered Species Protection Program for state and federally listed or proposed threatened or endangered species on the subject property and surrounding properties. No mapped sites were found in

EDR's search of available government records within a 1 mile radius from the target property.

The following Endangered Species are listed for Mobile County: Flatwoods Salamander, Piping Plover, Gulf Sturgeon, Louisiana Quillwort, Loggerhead Sea Turtle, Gopher Tortoise, Alabama Red-Bellied Turtle, and Eastern Indigo Snake.

None of the endangered species listed above were noted on the subject location. The subject property did not contain habitat conditions for any of above listed species except for the Louisiana Quillwort.

6.0 JURISDICTIONAL WATERS OF THE U.S.

Wetlands are generally areas where water covers the soil, or is present either at or near the surface of the soil all year or for varying periods of time during the year, including during the growing season. Water saturation (hydrology) largely determines how the soil develops and the types of plant and animal communities living in and on the soil. Wetlands may support both aquatic and terrestrial species, and the extended presence of water may create conditions that favor the growth of specially adapted plants (hydrophytes) and promote the development of characteristic wetland (hydric) soils.

Wetlands vary widely because of local and regional differences in soils, topography, climate, hydrology, water chemistry, vegetation, and other factors, including human disturbance. Two general categories of wetlands are recognized, which are identified as tidal wetlands and inland wetlands.

Areas subject to jurisdiction under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act of 1899 are commonly referred to as "wetlands"; however, "wetlands" are actually a subset of areas subject to jurisdiction and potential permitting requirements and constraints. The overall inclusive term used in the Code of Federal Regulations (CFR) is "waters of the US", which includes wetlands, all surface tributary streams with a defined channel, all major streams and rivers, lakes, most ponds, and occasionally manmade features such as ditches or abandoned borrow pits. Jurisdictional wetlands are defined by federal regulations as areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support under normal circumstances a prevalence of vegetation typically adapted for life in saturated soil conditions (Environmental Protection Agency (EPA), 40 CFR 230.3).

In our professional opinion, there are areas onsite that would satisfy the criteria to be a wetland pursuant to the Army Corps of Engineers 1987 Manual with subsequent clarification memoranda and pursuant to confirmation by the Army Corps of Engineers.

A complete wetland delineation can be found in **Appendix B**.

7.0 HISTORIC PROPERTIES

No visual evidence of prehistoric cultural resource materials was observed during the pedestrian survey of the subject property. However, shovel tests or other below ground investigations were not conducted on the subject property. That level of testing was beyond the scope of work for this investigation. If cultural resource materials (pottery shards, bone, stone points, etc.) are encountered during construction activities, all activities should be halted until the Alabama Department of Archives and History is notified. If human remains are encountered during any construction activities all activities should be halted immediately and the Sheriffs Department, notified for examination as a possible crime scene.

The National Register of Historic Places is the official federal list of districts, sites, buildings, structures, and objects significant in American history, architecture, archaeology, engineering, and culture. Established under the National Historic Preservation Act of 1966, the National Register has identified and documented, in partnership with state, federal, and tribal preservation programs nearly 75,000 districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture. An archival search was conducted of the National Register Information System (NRIS), a database that contains information on places listed in or determined to be eligible for the National Register of Historic Places.

The NRIS search indicated one Official Historical Site within a one mile search radius of the subject property. The Dawes-Theodore School located at 5761 Theodore Dawes Road in Theodore, Alabama was identified has a historical site; however the site is located greater than one-half mile from the subject property.

8.0 CONCLUSION

It is our opinion, based on the findings of this Environmental Review of Threatened & Endangered Species, Cultural Resources, and Wetlands that the development of the subject property would have a considerably low environmental impact in regards to those environmental areas reviewed and would be acceptable for development. A wetland fill permit will need to be obtained from the U.S. Army Corps of Engineer prior to any development.

9.0 ENVIRONMENTAL PROFESSIONAL SIGNATURE AND QUALIFICATIONS

This Environmental Review Report was prepared by Mr. Bryan S. Jones employed with PPM Consultants. Mr. Jones is a Registered Environmental Professional with over 20 years of experience as a health and environmental consultant. Mr. Jones is also a Certified Wetlands Delineator.

Prepared by:



August 11, 2010

Bryan S. Jones

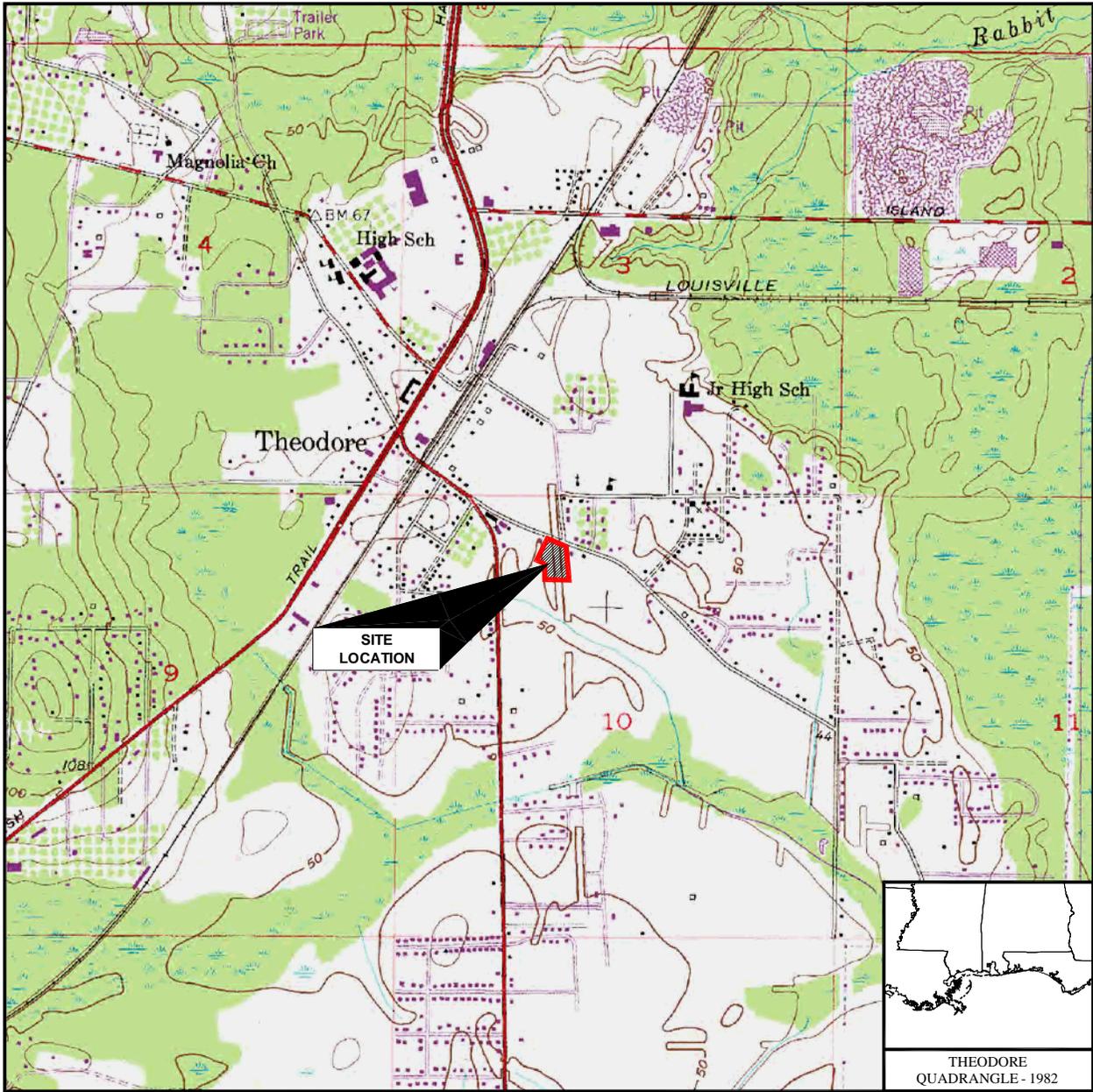
Date

APPENDIX A - FIGURES

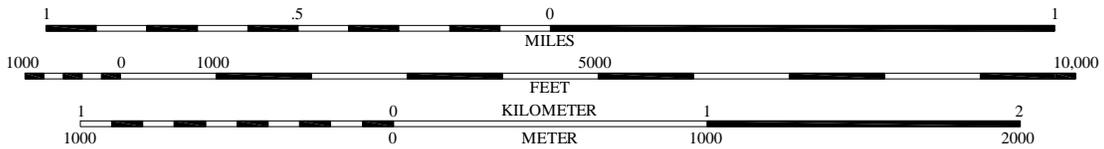
FIGURE 1 - TOPOGRAPHIC MAP

FIGURE 2 - AERIAL PHOTO

FIGURE 3 - PHOTOGRAPHS



SCALE: 1 : 24,000



Z:\Bryan.Jones\213410\ea\213410-01.dwg, 1 s.m., 6/17/2010 3:11:36 PM, mike hood

 PPM CONSULTANTS, INC.	
DRAWN BY: JMH	DRAWN DATE: 6/17/10
PROJECT NUMBER: BRYAN	BILLING GROUP: JONES

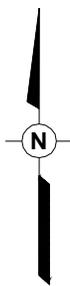
CITY OF MOBILE
PROPOSED THEODORE FIRE STATION
 OLD MILITARY ROAD
 THEODORE, ALABAMA

SITE LOCATION MAP

FIGURE
 NUMBER
1



**SUBJECT
PROPERTY**



0 100 200

SCALE: 1"=200'
(Approximate)

Z:\Bryan.Jones\213410\ea\213410-aa.dwg, 2 aerial, 6/17/2010 3:12:10 PM, mike hood

PPM PPM CONSULTANTS, INC.	
DRAWN BY: JMH	DRAWN DATE: 6/17/10
PROJECT NUMBER: BRYAN	BILLING GROUP: JONES

**CITY OF MOBILE
PROPOSED THEODORE FIRE STATION**
OLD MILITARY ROAD
THEODORE, ALABAMA

AERIAL MAP

FIGURE
NUMBER

2



Photo 1. Subject Property



Photo 2. Subject Property



Photo 3. Subject Property (household debris)



Photo 4. Drainage Ditch



Photo 5. Subject Property



Photo 6. Subject Property (concrete and brick debris)



Photo 7. Drainage Ditch with debris



Photo 8. Onsite Transformer



Photo 9. Adjoining property to the North



Photo 10. Adjoining properties to the Northeast



Photo 11. Adjoining properties to the East-northeast



Photo 12. Adjoining property to the East



Photo 13. Adjoining property to the South



Photo 14. Adjoining properties to the Southwest



Photo 15. Adjoining properties to the West



Photo 16. Adjoining property to the Northwest

APPENDIX B – EDR REPORT

Proposed Theodore Fire Station

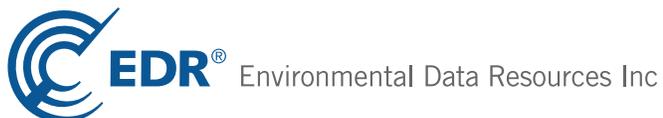
Old Military / Bellingrath Rd.

Theodore, AL 36582

Inquiry Number: 2799520.3s

June 22, 2010

EDR NEPACheck®



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Map Findings Summary.....	2
Natural Areas.....	3
Historic Sites.....	5
Flood Plain.....	8
Wetlands.....	10
Wetlands Classification System.....	16
FCC & FAA Sites.....	20
Key Contacts and Government Records Searched.....	26

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR NEPACheck® DESCRIPTION

The National Environmental Policy Act of 1969 (NEPA) requires that Federal agencies include in their decision-making processes appropriate and careful consideration of all environmental effects and actions, analyze potential environmental effects of proposed actions and their alternatives for public understanding and scrutiny, avoid or minimize adverse effects of proposed actions, and restore and enhance environmental quality as much as possible.

The EDR NEPACheck provides information which may be used, in conjunction with additional research, to determine whether a proposed site or action will have significant environmental effect.

The report provides maps and data for the following items (where available). Search results are provided in the Map Findings Summary on page 2 of this report.

Section	Regulation
Natural Areas Map	
• Federal Lands Data:	
- Officially designated wilderness areas	47 CFR 1.1307(1)
- Officially designated wildlife preserves, sanctuaries and refuges	47 CFR 1.1307(2)
- Wild and scenic rivers	40 CFR 6.302(e)
- Fish and Wildlife	40 CFR 6.302
• Threatened or Endangered Species, Fish and Wildlife, Critical Habitat Data (where available)	47 CFR 1.1307(3); 40 CFR 6.302
Historic Sites Map	
• National Register of Historic Places	47 CFR 1.1307(4); 40 CFR 6.302
• State Historic Places (where available)	
• Indian Reservations	
Flood Plain Map	
• National Flood Plain Data (where available)	47 CFR 1.1307(6); 40 CFR 6.302
Wetlands Map	
• National Wetlands Inventory Data (where available)	47 CFR 1.1307(7); 40 CFR 6.302
FCC & FAA Map	
• FCC antenna/tower sites, FAA Markings and Obstructions, Airports, Topographic gradient	47 CFR 1.1307(8)
Key Contacts and Government Records Searched	

MAP FINDINGS SUMMARY

The databases searched in this report are listed below. Database descriptions and other agency contact information is contained in the Key Contacts and Government Records Searched section on page 26 of this report.

TARGET PROPERTY ADDRESS

PROPOSED THEODORE FIRE STATION
 OLD MILITARY / BELLINGRATH RD.
 THEODORE, AL 36582

Inquiry #: 2799520.3s
 Date: 6/22/10

TARGET PROPERTY COORDINATES

Latitude (North): 30.543640 - 30° 32' 37.1"
 Longitude (West): 88.169548 - 88° 10' 10.4"
 Universal Tranverse Mercator: Zone 16
 UTM X (Meters): 387813.4
 UTM Y (Meters): 3379427.2

Applicable Regulation from 47 CFR/FCC Checklist	Database	Search Distance (Miles)	Within Search	Within 1/8 Mile
<u>NATURAL AREAS MAP</u>				
1.1307a (1) Officially Designated Wilderness Area	US Federal Lands	1.00	NO	NO
1.1307a (2) Officially Designated Wildlife Preserve	US Federal Lands	1.00	NO	NO
1.1307a (2) Officially Designated Wildlife Preserve	AL Managed Lands	1.00	NO	NO
1.1307a (2) Officially Designated Wildlife Preserve	AL Wildlife Refuges	1.00	NO	NO
1.1307a (2) Officially Designated Wildlife Preserve	AL Wildlife Management Areas	1.00	NO	NO
1.1307a (3) Threatened or Endangered Species or Critical Habitat	County Endangered Species	County	YES	N/A
<u>HISTORIC SITES MAP</u>				
1.1307a (4) Listed or eligible for National Register	National Register of Hist. Pla	1.00	NO	NO
1.1307a (4) Listed or eligible for National Register	AL Historic Sites	1.00	YES	NO
	Indian Reservation	1.00	NO	NO
<u>FLOODPLAIN MAP</u>				
1.1307 (6) Located in a Flood Plain	FLOODPLAIN	1.00	YES	NO
<u>WETLANDS MAP</u>				
1.1307 (7) Change in surface features (wetland fill)	NWI	1.00	YES	NO
<u>FCC & FAA SITES MAP</u>				
	Cellular	1.00	NO	NO
	4G Cellular	1.00	NO	NO
	Antenna Structure Registration	1.00	YES	NO
	Towers	1.00	NO	NO
	AM Antenna	1.00	NO	NO
	FM Antenna	1.00	NO	NO
	FAA DOF	1.00	YES	NO
	Airports	1.00	NO	---
	Power Lines	1.00	YES	---

Natural Areas Map



- ★ Target Property
- ⊕ Locations
- ⚡ Roads
- ▨ Federal Areas
- ⚡ County Boundary
- ⚡ Federal Linear Features
- ⚡ Waterways
- ▨ State Areas
- Water
- ⚡ State Linear Features



SITE NAME: Proposed Theodore Fire Station
 ADDRESS: Old Military / Bellingrath Rd.
 Theodore AL 36582
 LAT/LONG: 30.5436 / 88.1696

CLIENT: PPM Consultants Inc.
 CONTACT: Bryan Jones
 INQUIRY #: 2799520.3s
 DATE: June 22, 2010

NATURAL AREAS MAP FINDINGS

Endangered Species Listed for: MOBILE County, AL.

Source: EPA Endangered Species Protection Program Database

AMPHIBIAN: SALAMANDER, FLATWOODS
BIRD: PLOVER, PIPING
FISH: STURGEON, GULF
PLANT: QUILLWORT, LOUISIANA
REPTILE: TURTLE, LOGGERHEAD SEA
REPTILE: TORTOISE, GOPHER
REPTILE: TURTLE, ALABAMA RED-BELLIED
REPTILE: SNAKE, EASTERN INDIGO

Map ID
Direction
Distance
Distance (ft.)

EDR ID
Database

No mapped sites were found in EDR's search of available government records within the search radius around the target property.

Historic Sites Map



- ★ Target Property
- ◆ Historic Sites
- Streets
- Federal Historic Areas
- County Boundary
- State Historic Areas
- Waterways
- Water
- US Indian Reservations
- Scenic Trail



SITE NAME: Proposed Theodore Fire Station
 ADDRESS: Old Military / Bellingrath Rd.
 Theodore AL 36582
 LAT/LONG: 30.5436 / 88.1696

CLIENT: PPM Consultants Inc.
 CONTACT: Bryan Jones
 INQUIRY #: 2799520.3s
 DATE: June 22, 2010

HISTORIC SITES MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)

EDR ID
Database

1
NW
1/2-1 mi
4324

Fname: Dawes-Theodore School
Faddress: 5761 Theodore Dawes Road
Fcity: Theodore
Fnrhp: Not Reported
Forigin: 1911
Flisted: 07/18/1989
Fcnty: MOBILE COUNTY
Fagency: Not Reported
Fedr id: AL200810000798

AL200810000798
AL Historic Sites

UNMAPPABLE HISTORIC SITES

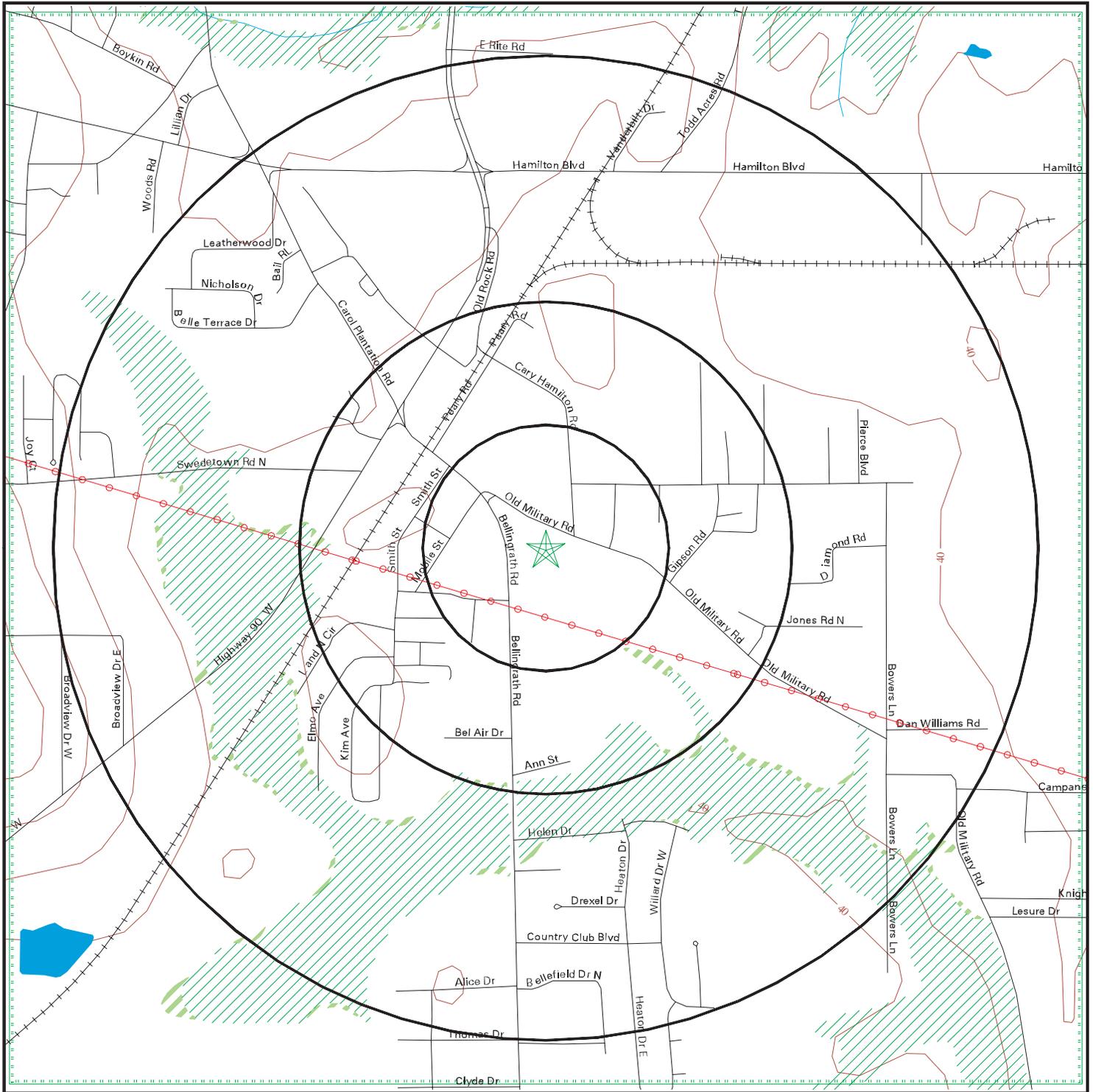
Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Fname: Bellingrath Gardens and Home
Faddress: 20 mi S of Mobile
Fcity: Theodore
Fnrhp: (NRHP)
Forigin: 1927; 1935
Flisted: 09/14/1977
Fcnty: MOBILE COUNTY
Fagency: Not Reported
Fedr id: AL200810000795

Unmappable
AL200810000795
AL Historic Sites

Flood Plain Map



-  Major Roads
-  Contour Lines
-  Waterways
-  County Boundary
-  Power Lines
-  Pipe Lines
-  Fault Lines
-  Water
-  100-year flood zone
-  500-year flood zone
-  Electronic FEMA data available
-  Electronic FEMA data not available

SITE NAME: Proposed Theodore Fire Station
 ADDRESS: Old Military / Bellingrath Rd.
 Theodore AL 36582
 LAT/LONG: 30.5436 / 88.1696

CLIENT: PPM Consultants Inc.
 CONTACT: Bryan Jones
 INQUIRY #: 2799520.3s
 DATE: June 22, 2010

FLOOD PLAIN MAP FINDINGS

Source: FEMA DFIRM Flood Data, FEMA Q3 Flood Data

County	FEMA flood data electronic coverage
--------	-------------------------------------

MOBILE, AL

YES

Flood Plain panel at target property:

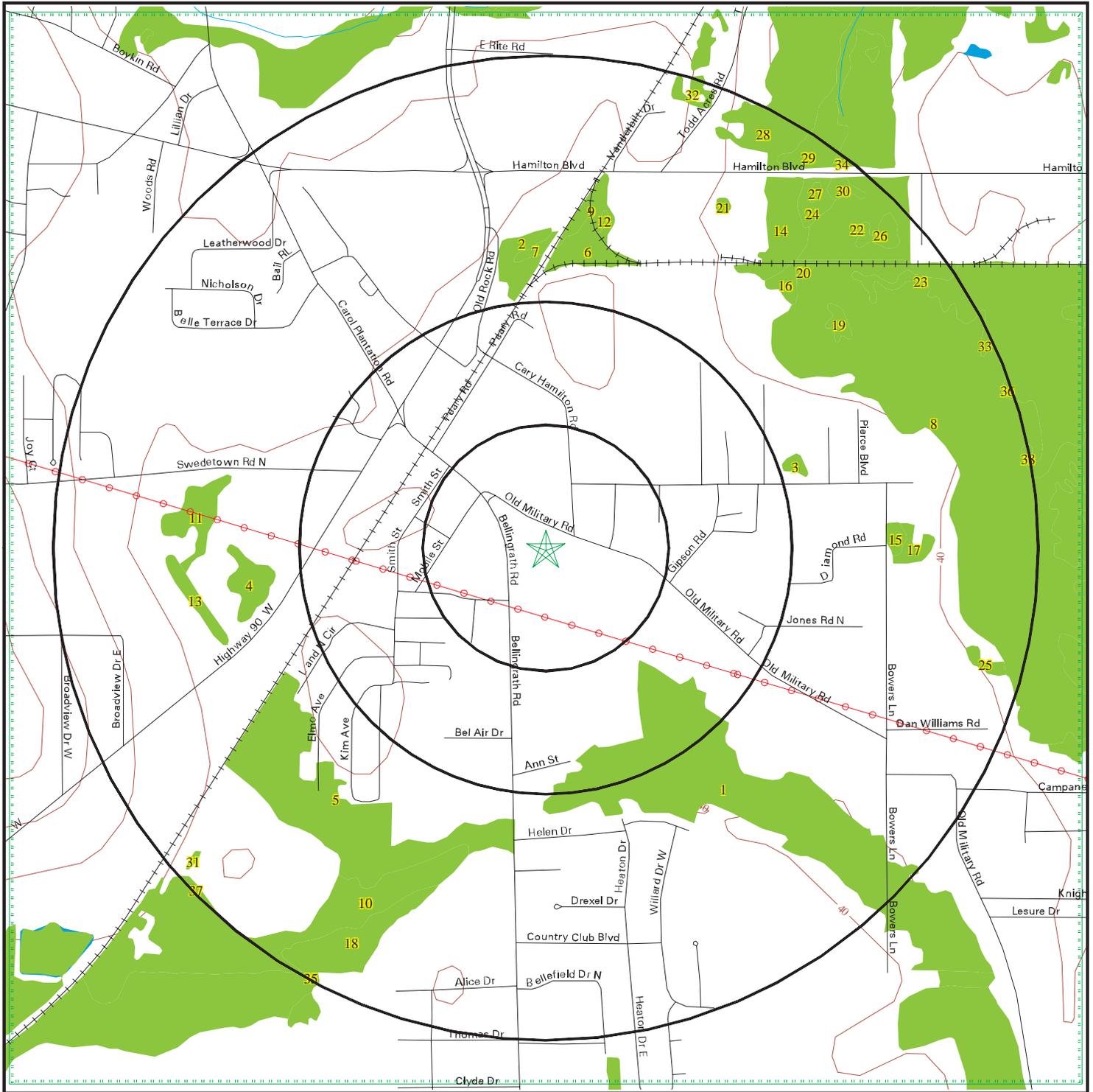
01097C0666J (FEMA Q3 Flood data)

Additional Flood Plain panel(s) in search area:

01097C0667J (FEMA Q3 Flood data)

01097C0668J (FEMA Q3 Flood data)

National Wetlands Inventory Map



-  Major Roads
-  Contour Lines
-  Waterways
-  County Boundary
-  Power Lines
-  Pipe Lines
-  Fault Lines
-  Water
-  National Wetland Inventory
-  Electronic NWI data available
-  Electronic NWI data not available

SITE NAME: Proposed Theodore Fire Station
 ADDRESS: Old Military / Bellingrath Rd.
 Theodore AL 36582
 LAT/LONG: 30.5436 / 88.1696

CLIENT: PPM Consultants Inc.
 CONTACT: Bryan Jones
 INQUIRY #: 2799520.3s
 DATE: June 22, 2010

WETLANDS MAP FINDINGS

Source: Fish and Wildlife Service NWI data

NWI hardcopy map at target property: Theodore

Additional NWI hardcopy map(s) in search area:

Not reported in source data

Map ID

Direction

Distance

Distance (ft.)

Code and Description*

Database

Map ID	Direction	Distance	Distance (ft.)	Code and Description*	Database
1	SE	1/4-1/2 mi	1569	PFO1/3Cd [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous / , [FO] Forested, [3] Broad-Leaved Evergreen, [C] Seasonally Flooded, [d] Partially Drained/Ditched Lat/Lon: 30.540318 / -88.166359	NWI
2	North	1/2-1 mi	2668	PFO3A [P] Palustrine, [FO] Forested, [3] Broad-Leaved Evergreen, [A] Temporarily Flooded Lat/Lon: 30.550917 / -88.170609	NWI
3	ENE	1/2-1 mi	2676	PFO1C [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [C] Seasonally Flooded Lat/Lon: 30.545921 / -88.161469	NWI
4	West	1/2-1 mi	2905	PFO1A [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [A] Temporarily Flooded Lat/Lon: 30.542889 / -88.178741	NWI
5	South	1/2-1 mi	2932	PFO1/3Ad [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous / , [FO] Forested, [3] Broad-Leaved Evergreen, [A] Temporarily Flooded, [d] Partially Drained/Ditched Lat/Lon: 30.535633 / -88.170677	NWI
6	North	1/2-1 mi	2957	PFO3A [P] Palustrine, [FO] Forested, [3] Broad-Leaved Evergreen, [A] Temporarily Flooded Lat/Lon: 30.551767 / -88.169502	NWI
7	North	1/2-1 mi	3077	PFO1C [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [C] Seasonally Flooded Lat/Lon: 30.552059 / -88.170471	NWI
8	NE	1/2-1 mi	3199	PFO4B [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [B] Saturated Lat/Lon: 30.549196 / -88.161674	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
9 North 1/2-1 mi 3215	PFO1C [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [C] Seasonally Flooded Lat/Lon: 30.552471 / -88.169212	NWI
10 SSW 1/2-1 mi 3285	PSS3Ad [P] Palustrine, [SS] Scrub-Shrub, [3] Broad-Leaved Evergreen, [A] Temporarily Flooded, [d] Partially Drained/Ditched Lat/Lon: 30.534916 / -88.172272	NWI
11 WNW 1/2-1 mi 3445	PFO1Ad [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [A] Temporarily Flooded, [d] Partially Drained/Ditched Lat/Lon: 30.545647 / -88.180244	NWI
12 North 1/2-1 mi 3458	PUBH [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded Lat/Lon: 30.552999 / -88.167633	NWI
13 WSW 1/2-1 mi 3538	PFO1A [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [A] Temporarily Flooded Lat/Lon: 30.540916 / -88.180344	NWI
14 NE 1/2-1 mi 3602	PFO3C [P] Palustrine, [FO] Forested, [3] Broad-Leaved Evergreen, [C] Seasonally Flooded Lat/Lon: 30.551767 / -88.163010	NWI
15 East 1/2-1 mi 3643	PFO1C [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [C] Seasonally Flooded Lat/Lon: 30.544125 / -88.157990	NWI
16 NE 1/2-1 mi 3656	PFO1A [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [A] Temporarily Flooded Lat/Lon: 30.551294 / -88.162025	NWI
17 East 1/2-1 mi 3721	PFO3C [P] Palustrine, [FO] Forested, [3] Broad-Leaved Evergreen, [C] Seasonally Flooded Lat/Lon: 30.543407 / -88.157730	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
18 SSW 1/2-1 mi 3786	PFO3Ad [P] Palustrine, [FO] Forested, [3] Broad-Leaved Evergreen, [A] Temporarily Flooded, [d] Partially Drained/Ditched Lat/Lon: 30.533709 / -88.173180	NWI
19 NE 1/2-1 mi 3816	PSS3B [P] Palustrine, [SS] Scrub-Shrub, [3] Broad-Leaved Evergreen, [B] Saturated Lat/Lon: 30.549698 / -88.159653	NWI
20 NE 1/2-1 mi 3946	PUBH [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded Lat/Lon: 30.551565 / -88.160988	NWI
21 NNE 1/2-1 mi 4043	PUBH [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded Lat/Lon: 30.553530 / -88.163689	NWI
22 NE 1/2-1 mi 4104	PFO4A [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [A] Temporarily Flooded Lat/Lon: 30.552147 / -88.160988	NWI
23 NE 1/2-1 mi 4367	PSS3B [P] Palustrine, [SS] Scrub-Shrub, [3] Broad-Leaved Evergreen, [B] Saturated Lat/Lon: 30.550869 / -88.158470	NWI
24 NE 1/2-1 mi 4417	PSS3/1C [P] Palustrine, [SS] Scrub-Shrub, [3] Broad-Leaved Evergreen / , [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [C] Seasonally Flooded Lat/Lon: 30.553095 / -88.160744	NWI
25 ESE 1/2-1 mi 4632	PFO4C [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [C] Seasonally Flooded Lat/Lon: 30.540674 / -88.155235	NWI
26 NE 1/2-1 mi 4641	PFO3C [P] Palustrine, [FO] Forested, [3] Broad-Leaved Evergreen, [C] Seasonally Flooded Lat/Lon: 30.552523 / -88.158966	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
27 NE 1/2-1 mi 4658	PUBH [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded Lat/Lon: 30.553795 / -88.160530	NWI
28 NNE 1/2-1 mi 4682	PFO4/3C [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen / , [FO] Forested, [3] Broad-Leaved Evergreen, [C] Seasonally Flooded Lat/Lon: 30.554745 / -88.162025	NWI
29 NNE 1/2-1 mi 4806	PFO1/3C [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous / , [FO] Forested, [3] Broad-Leaved Evergreen, [C] Seasonally Flooded Lat/Lon: 30.554808 / -88.161385	NWI
30 NE 1/2-1 mi 4850	PEM1C [P] Palustrine, [EM] Emergent, [1] Persistent, [C] Seasonally Flooded Lat/Lon: 30.553986 / -88.159828	NWI
31 SW 1/2-1 mi 4922	PUBH [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded Lat/Lon: 30.534691 / -88.181290	NWI
32 NNE 1/2-1 mi 5000	PUBH [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded Lat/Lon: 30.556702 / -88.164589	NWI
33 ENE 1/2-1 mi 5098	PSS3B [P] Palustrine, [SS] Scrub-Shrub, [3] Broad-Leaved Evergreen, [B] Saturated Lat/Lon: 30.549307 / -88.154732	NWI
34 NE 1/2-1 mi 5107	PFO4C [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [C] Seasonally Flooded Lat/Lon: 30.554867 / -88.159805	NWI
35 SSW 1/2-1 mi 5163	PFO4/3A [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen / , [FO] Forested, [3] Broad-Leaved Evergreen, [A] Temporarily Flooded Lat/Lon: 30.531122 / -88.177299	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
36 ENE 1/2-1 mi 5173	PSS3B [P] Palustrine, [SS] Scrub-Shrub, [3] Broad-Leaved Evergreen, [B] Saturated Lat/Lon: 30.548239 / -88.153992	NWI
37 SW 1/2-1 mi 5193	PSS3Ad [P] Palustrine, [SS] Scrub-Shrub, [3] Broad-Leaved Evergreen, [A] Temporarily Flooded, [d] Partially Drained/Ditched Lat/Lon: 30.533916 / -88.181633	NWI
38 ENE 1/2-1 mi 5202	PSS3B [P] Palustrine, [SS] Scrub-Shrub, [3] Broad-Leaved Evergreen, [B] Saturated Lat/Lon: 30.546511 / -88.153358	NWI

*See Wetland Classification System for additional information.

WETLANDS CLASSIFICATION SYSTEM

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a sub-department of the U.S. Department of the Interior. In 1974, the U.S. Fish and Wildlife Service developed a criteria for wetland classification with four long range objectives:

- to describe ecological units that have certain homogeneous natural attributes,
- to arrange these units in a system that will aid decisions about resource management,
- to furnish units for inventory and mapping, and
- to provide uniformity in concepts and terminology throughout the U.S.

High altitude infrared photographs, soil maps, topographic maps and site visits are the methods used to gather data for the productions of these maps. In the infrared photos, wetlands appear as different colors and these wetlands are then classified by type. Using a hierarchical classification, the maps identify wetland and deepwater habitats according to:

- system
- subsystem
- class
- subclass
- modifiers

(as defined by Cowardin, et al. U.S. Fish and Wildlife Service FWS/OBS 79/31. 1979.)

The classification system consists of five systems:

1. marine
2. estuarine
3. riverine
4. lacustrine
5. palustrine

The marine system consists of deep water tidal habitats and adjacent tidal wetlands. The riverine system consists of all wetlands contained within a channel. The lacustrine systems includes all nontidal wetlands related to swamps, bogs & marshes. The estuarine system consists of deepwater tidal habitats and where ocean water is diluted by fresh water. The palustrine system includes nontidal wetlands dominated by trees and shrubs and where salinity is below .5% in tidal areas. All of these systems are divided in subsystems and then further divided into class.

National Wetland Inventory Maps are produced by transferring gathered data on a standard 7.5 minute U.S.G.S. topographic map. Approximately 52 square miles are covered on a National Wetland Inventory map at a scale of 1:24,000. Electronic data is compiled by digitizing these National Wetland Inventory Maps.

SYSTEM

MARINE

SUBSYSTEM

1 - SUBTIDAL

2 - INTERTIDAL

CLASS

RB-ROCK
BOTTOM

UB-UNCONSOLIDATED
BOTTOM

AB-AQUATIC BED

RF-REEF

OW-OPEN WATER /
Unknown Bottom

AB-AQUATIC BED

RF-REEF

RS-ROCKY SHORE

US-UNCONSOLIDATED
SHORE

Subclass

1 Bedrock
2 Rubble

1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

1 Algal
3 Rooted Vascular
5 Unknown
Submergent

1 Coral
3 Worm

1 Algal
3 Rooted Vascular
5 Unknown Submergent

1 Coral
3 Worm

1 Bedrock
2 Rubble

1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

SYSTEM

E - ESTUARINE

SUBSYSTEM

1 - SUBTIDAL

CLASS

RB-ROCK
BOTTOM

UB-UNCONSOLIDATED
BOTTOM

AB-AQUATIC BED

RF-REEF

OW-OPEN WATER /
Unknown Bottom

Subclass

1 Bedrock
2 Rubble

1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

1 Algal
3 Rooted Vascular
4 Floating Vascular
5 Unknown Submergent
6 Unknown Surface

2 Mollusk
3 Worm

SUBSYSTEM

2 - INTERTIDAL

CLASS

AB-AQUATIC BED

RF-REEF

SB - STREAMBED

RS-ROCKY SHORE

US-UNCONSOLIDATED
SHORE

EM-EMERGENT

SS-SCRUB SHRUB

FO-FORESTED

Subclass

1 Algal
3 Rooted Vascular
4 Floating Vascular
5 Unknown Submergent
6 Unknown Surface

2 Mollusk
3 Worm

1 Cobble- Gravel
2 Sand
3 Mud
4 Organic

1 Bedrock
2 Rubble

1 Cobble- Gravel
2 Sand
3 Mud
4 Organic

1 Persistent
2 Nonpersistent

1 Broad-Leaved
Deciduous
2 Needle-Leaved
Deciduous
3 Broad-Leaved
Evergreen
4 Needle-Leaved
Evergreen
5 Dead
6 Deciduous
7 Evergreen

1 Broad-Leaved
Deciduous
2 Needle-Leaved
Deciduous
3 Broad-Leaved
Evergreen
4 Needle-Leaved
Evergreen
5 Dead
6 Deciduous
7 Evergreen

SYSTEM

R - RIVERINE

SUBSYSTEM

1 - TIDAL 2 - LOWER PERENNIAL 3 - UPPER PERENNIAL 4 - INTERMITTENT 5 - UNKNOWN PERENNIAL

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	*SB-STREAMBED	AB-AQUATIC BED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	**EM-EMERGENT	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Rubble 3 Cobble-Gravel 4 Sand 5 Mud 6 Organic 7 Vegetated	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	2 Nonpersistent	

* STREAMBED is limited to TIDAL and INTERMITTENT SUBSYSTEMS, and comprises the only CLASS in the INTERMITTENT SUBSYSTEM.
 **EMERGENT is limited to TIDAL and LOWER PERENNIAL SUBSYSTEMS.

SYSTEM

L - LACUSTRINE

SUBSYSTEM

1 - LIMNETIC

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	

SUBSYSTEM

2 - LITTORAL

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	EM-EMERGENT	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	2 Nonpersistent	

SUBSYSTEM

P - PALUSTRINE

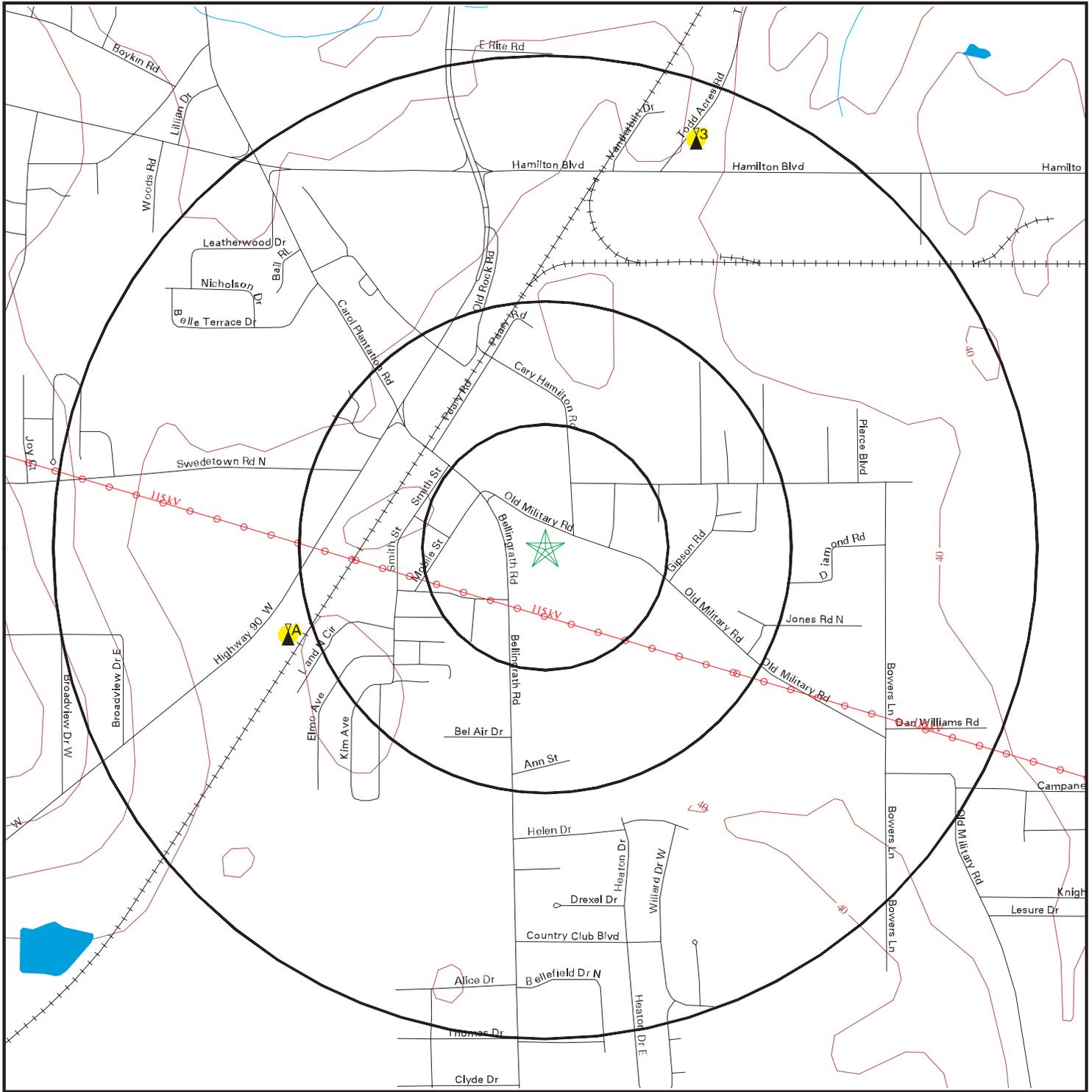
CLASS	RB--ROCK BOTTOM	UB--UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	US--UNCONSOLIDATED SHORE	ML--MOSS- LICHEN	EM--EMERGENT	SS--SCRUB-SHRUB	FO--FORESTED	OW-OPEN WATER/ Unknown
Subclass	1 Bedrock 2 Rubble 3 Mud 4 Organic	1 Cobble-Gravel 2 Sand	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown 6 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent	1 Broad-Leaved 2 Needle-Leaved 3 Broad-Leaved 4 Needle-Leaved 5 Dead 6 Deciduous 7 Evergreen	1 Broad-Leaved 2 Needle-Leaved 3 Broad-Leaved 4 Needle-Leaved 5 Dead 6 Deciduous 7 Evergreen	

MODIFIERS

In order to more adequately describe wetland and deepwater habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME				WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS
Non-Tidal	Tidal	Coastal	Inland	Salinity	pH	Modifiers		
A Temporarily Flooded	H Permanently Flooded	K Artificially Flooded	*S Temporary-Tidal	1 Hyperhaline	7 Hypersaline	all Fresh Water	g Organic	b Beaver
B Saturated	J Intermittently Flooded	L Subtidal	*R Seasonal-Tidal	2 Euhaline	8 Eusaline	a Acid	n Mineral	d Partially Drained/Ditched
C Seasonally Flooded	K Artificially Flooded	M Irregularly Exposed	*T Semipermanent -Tidal	3 Mixohaline (Brackish)	9 Mixosaline	t Circumneutral		f Farmed
D Seasonally Flooded/ Well Drained	W Intermittently Flooded/Temporary	N Regularly Flooded	V Permanent -Tidal	4 Polyhaline	0 Fresh	i Alkaline		h Diked/Impounded
E Seasonally Flooded/ Saturated	Y Saturated/Semipermanent/ Seasonal	P Irregularly Flooded	U Unknown	5 Mesohaline				r Artificial Substrate
F Semipermanently Flooded	Z Intermittently Exposed/Permanent	*These water regimes are only used in tidally influenced, freshwater systems.			6 Oligohaline			s Spoil
G Intermittently Exposed	U Unknown			0 Fresh				x Excavated

FCC & FAA Sites Map



-  Streets
-  Contour Lines
-  County Boundary
-  Waterways
-  Power Lines
-  Water
-  Sites



SITE NAME: Proposed Theodore Fire Station
 ADDRESS: Old Military / Bellingrath Rd.
 Theodore AL 36582
 LAT/LONG: 30.5436 / 88.1696

CLIENT: PPM Consultants Inc.
 CONTACT: Bryan Jones
 INQUIRY #: 2799520.3s
 DATE: June 22, 2010

FCC & FAA SITES MAP FINDINGS TOWERS

Map ID
Direction
Distance
Distance (ft.)

EDR ID
Database

A1
 WSW
 1/2-1 mi
 2914

DOF200000017520
 NOAA_DOF

Obstacle n:	01-002082
O or u:	O
Country:	US
State:	AL
City:	THEODORE
Lat deg:	30
Lat min:	32
Lat sec:	28.00N
Lon deg:	88
Lon min:	10
Lon sec:	42.00W
Obstacle type:	TOWER
Quantity:	1
Agl ht:	258
Amsl ht:	314
Lighting:	D
Horiz acc:	2
Vert acc:	C
Marking:	N
Faa num:	1997ASO05921OE
Action:	C
Julian:	1999256 31
Edr id:	DOF200000017520

FCC & FAA SITES MAP FINDINGS TOWERS

Map ID
Direction
Distance
Distance (ft.)

EDR ID
Database

A2
WSW
1/2-1 mi
2917

ANT200000013463
ANTREG

Regnum: 1050010
 Filenum: A0583250
 Issuedate: 2/4/2008
 Entity: Cellular South Real Estate, Inc.
 Lat dms: 30,32,27.4
 Lat dir: 1
 Lon dms: 88,10,41.9
 Lon dir: -1
 Dd temp: 30.541
 Dd temp0: -88.1783
 Strucht: 76.2
 Strucadd: 5973 HWY. 90 WEST
 Struccity: THEODORE
 Strucstate: AL
 Faastudy: 99-ASO-3058-OE
 Faacirc: 70/7460-1J
 Lcid: L00420534
 Contname: Del Slone
 Contadd: 1018 Highland Colony Pkwy, Ste 300
 Contpo: Not Reported
 Contcity: Ridgeland
 Contstate: MS
 Contzip: 39157
 Edr id: ANT200000013463

This record is for a license, and it may or may not indicate a site which has been built.

FCC & FAA SITES MAP FINDINGS TOWERS

Map ID
Direction
Distance
Distance (ft.)

EDR ID
Database

3
NNE
1/2-1 mi
4677

ANT200000013546
ANTREG

Regnum: 1213358
 Filenum: A0237548
 Issuedate: 1/18/2002
 Entity: SBA Properties, Inc.
 Lat dms: 30,33,20.4
 Lat dir: 1
 Lon dms: 88,9,51.8
 Lon dir: -1
 Dd temp: 30.5557
 Dd temp0: -88.1644
 Strucht: 57.9
 Strucadd: 6501 Todd Acres Road
 Struccity: Theodore
 Strucstate: AL
 Faastudy: 00-ASO-2437-OE
 Faacirc: Not Reported
 Lcid: L00296049
 Contname: Edward G. Roach
 Contadd: 5900 Broken Sound Pkwy., NW
 Contpo: Not Reported
 Contcity: Boca Raton
 Contstate: FL
 Contzip: 33487
 Edr id: ANT200000013546

This record is for a license, and it may or may not indicate a site which has been built.

FCC & FAA SITES MAP FINDINGS AIRPORTS

EDR ID
Database

No Sites Reported.

FCC & FAA SITES MAP FINDINGS POWERLINES

EDR ID
Database

POW1000000183
POWERLINES

Name:	AL Po
Id:	186
Kv:	115
Label:	115 kV
Company:	Alabama Power Co.
Companyabb:	AL Power
Edr id:	POW1000000183

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Various Federal laws and executive orders address specific environmental concerns. NEPA requires the responsible offices to integrate to the greatest practical extent the applicable procedures required by these laws and executive orders. EDR provides key contacts at agencies charged with implementing these laws and executive orders to supplement the information contained in this report.

NATURAL AREAS

Officially designated wilderness areas

Government Records Searched in This Report

FED_LAND: Federal Lands

Source: USGS

Telephone: 703-648-5094

Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.

- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

Federal Contacts for Additional Information

National Park Service, Southeast Region

100 Alabama Street SW, 1924 Building

Atlanta, GA 30303

404-562-3100

USDA Forest Service, Southern

1720 Peachtree Road, N.W.

Atlanta, GA 30367

404-347-2384

BLM - Eastern States Office

7450 Boston Blvd.

Springfield, VA 22153

703-440-1713

Fish & Wildlife Service, Region 4

Budget and Finance 1875 Century Boulevard

Atlanta, GA 30345

404-679-4096

Officially designated wildlife preserves, sanctuaries and refuges

Government Records Searched in This Report

FED_LAND: Federal Lands

Source: USGS

Telephone: 703-648-5094

Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.

- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

AL Wildlife Refuges: Wildlife Refuges
Source: Dept. of Conservation and Natural Resources.
Telephone: 334-242-3051

AL Managed Lands: Managed Lands
State land purchased for the Forever Wild Nature Preserve
Source: Dept. of Conservation and Natural Resources.
Telephone: 334-242-3051

Federal Contacts for Additional Information

Fish & Wildlife Service, Region 4
Budget and Finance 1875 Century Boulevard
Atlanta, GA 30345
404-679-4096

State Contacts for Additional Information

Dept. of Conservation & Natural Resources 334-242-3465

Wild and scenic rivers

Government Records Searched in This Report

FED_LAND: Federal Lands

Source: USGS

Telephone: 703-648-5094

Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.

- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

Federal Contacts for Additional Information

Fish & Wildlife Service, Region 4
Budget and Finance 1875 Century Boulevard
Atlanta, GA 30345
404-679-4096

Endangered Species

Government Records Searched in This Report

Endangered Species Protection Program Database

A listing of endangered species by county.

Source: Environmental Protection Agency

Telephone: 703-305-5239

Federal Contacts for Additional Information

Fish & Wildlife Service, Region 4
Budget and Finance 1875 Century Boulevard
Atlanta, GA 30345
404-679-4096

State Contacts for Additional Information

Natural Heritage Program, Huntingdon College 334-834-4519

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

LANDMARKS, HISTORICAL, AND ARCHEOLOGICAL SITES

Historic Places

Government Records Searched in This Report

National Register of Historic Places:

The National Register of Historic Places is the official federal list of districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, engineering, and culture. These contribute to an understanding of the historical and cultural foundations of the nation.

The National Register includes:

- All prehistoric and historic units of the National Park System;
- National Historic Landmarks, which are properties recognized by the Secretary of the Interior as possessing national significance; and
- Properties significant in American, state, or local prehistory and history that have been nominated by State Historic Preservation Officers, federal agencies, and others, and have been approved for listing by the National Park Service.

Date of Government Version: 03/23/2006

AL Historic Sites: Properties on the Alabama Register of Landmarks and Heritage

Listing of historic sites included on the State Register.

Source: Alabama Historical Commission.

Telephone: 334-230-2654

AL Historic Sites: Alabama Properties Listed on the National Register of Historic Places.

Listing of historic sites included on the National Register for Alabama.

Source: Alabama Historical Commission.

Telephone: 334-230-2654

Federal Contacts for Additional Information

Park Service; Advisory Council on Historic Preservation

1849 C Street NW

Washington, DC 20240

Phone: (202) 208-6843

State Contacts for Additional Information

Alabama Historical Commission 334-242-3184

Indian Religious Sites

Government Records Searched in This Report

Indian Reservations:

This map layer portrays Indian administrated lands of the United States that have any area equal to or greater than 640 acres.

Source: USGS

Phone: 888-275-8747

Date of Government Version: 12/31/2005

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Federal Contacts for Additional Information

Department of the Interior- Bureau of Indian Affairs
Office of Public Affairs
1849 C Street, NW
Washington, DC 20240-0001
Office: 202-208-3711
Fax: 202-501-1516

National Association of Tribal Historic Preservation Officers
1411 K Street NW, Suite 700
Washington, DC 20005
Phone: 202-628-8476
Fax: 202-628-2241

State Contacts for Additional Information

A listing of local Tribal Leaders and Bureau of Indian Affairs Representatives can be found at:
<http://www.doi.gov/bia/areas/agency.html>

Poarch Band of Creek Indians
5811 Jack Springs Road
Atmore, AL 36502

Scenic Trails

State Contacts for Additional Information

Natchez Trace National Scenic Trail
American Hiking Society 1422 Fenwick Lane
Silver Spring, Maryland 20910
301-565-6704

FLOOD PLAIN, WETLANDS AND COASTAL ZONE

Flood Plain Management

Government Records Searched in This Report

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

Federal Contacts for Additional Information

Federal Emergency Management Agency 877-3362-627

State Contacts for Additional Information

Alabama Emergency Management Agency 205-280-2200

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Wetlands Protection

Government Records Searched in This Report

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2004 from the U.S. Fish and Wildlife Service.

Federal Contacts for Additional Information

Fish & Wildlife Service 813-570-5412

State Contacts for Additional Information

Department of Conservation & Natural Resources 334-242-3465

Coastal Zone Management

Government Records Searched in This Report

CAMA Management Areas

Dept. of Env., Health & Natural Resources
919-733-2293

Federal Contacts for Additional Information

Office of Ocean and Coastal Resource Management

N/ORM, SSMC4
1305 East-West Highway
Silver Spring, Maryland 20910
301-713-3102

State Contacts for Additional Information

ADECA, Coastal Programs Office 334-626-0042

FCC & FAA SITES MAP

For NEPA actions that come under the authority of the FCC, the FCC requires evaluation of Antenna towers and/or supporting structures that are to be equipped with high intensity white lights which are to be located in residential neighborhoods, as defined by the applicable zoning law.

Government Records Searched in This Report

Cellular

Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

4G Cellular

Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

Antenna Structure Registration

Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Towers

Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

AM Antenna

Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

FM Antenna

Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

FAA Digital Obstacle File

Federal Aviation Administration (FAA)
1305 East-West Highway, Station 5631
Silver Spring, MD 20910-3281
Telephone: 301-713-2817

Describes known obstacles of interest to aviation users in the US. Used by the Federal Aviation Administration (FAA) and the National Oceanic and Atmospheric Administration to manage the National Airspace System.

Airport Landing Facilities

Federal Aviation Administration
Telephone (800) 457-6656
Private and public use landing facilities.

Electric Power Transmission Line Data

Rextag Strategies Corp.
14405 Walters Road, Suite 510
Houston, TX 77014
281-769-2247
U.S. Electric Transmission and Power Plants systems Digital GIS Data.

Excessive Radio Frequency Emission

For NEPA actions that come under the authority of the FCC, Commission actions granting construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities, require the determination of whether the particular facility, operation or transmitter would cause human exposure to levels of radio frequency in excess of certain limits.

Federal Contacts for Additional Information

Office of Engineering and Technology
Federal Communications Commission
445 12th Street SW
Washington, DC 20554
Phone: 202-418-2470

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

OTHER CONTACT SOURCES

STREET AND ADDRESS INFORMATION

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