

APPENDIX A
SCOPE OF SERVICES

Scope of Work

SCOPE OF SERVICES ARCHITECT-ENGINEER SERVICES FOR

Phase I Environmental Site Assessment

**FOR
OF**

**LAKEFRONT AIRPORT FLOODWALLS, CITRUS LAKEFRONT LEVEE, LINCOLN BEACH
FLOODWALL, NOE LAKEFRONT LEVEE, NEW ORLEANS EAST LEVEE – SOUTH POINT TO CSX
RR, NEW ORLEANS EAST LEVEE – CSX RR GATE, AND NEW ORLEANS EAST BACK LEVEE –
CSX RR TO MICHOU D CANAL EAST FLOODWALL
ORLEANS PARISH, LA
FEDERAL PROJECT NUMBERS: LPV 105 – 111**

INTRODUCTION

Due to severe damages from Hurricane Katrina, the Corps of Engineers is rehabilitating and improving the flood protection system of southeast Louisiana. As part of this work, The Levees reaches identified above and shown in drawings 1-7 will be enlarged with compacted fill to authorized grade. The footprint of these enlarged levees will not exceed the limits of the existing right-of-way. The footprint of this enlarged levee will not exceed the limits of the existing right-of-way at this time; however, when this levee is eventually brought to the 100-year flood elevation, the footprint will likely increase outside of the existing right-of-way, by as much as 1000 feet on either side of the levee crown. On one reach, there will is the possibility of a realignment, described in the supplemental information below.

A Phase I Environmental Site Assessment (ESA) will be performed to investigate the potential presence of hazardous, toxic, or radioactive waste (HTRW) in the vicinity of the proposed construction, to ensure that suitable and safe fill materials are utilized for levee construction. The Phase I will be conducted in compliance with ASTM Standard 1527-05, “Standard Practice for Standard Practice Environmental Site Assessments: Phase I Environmental Site Assessment Process”(November 1, 2005). The focus of the Phase I ESA will be to review existing and past historical information regarding the site. The Phase I ESA will document the past history of the site to determine the potential presence of any HTRW, in order to avoid any areas of concern.

Description of Work

TASKS

The Contractor shall conduct the following Tasks in the execution of the Phase I ESA.

Task 1: Environmental Database Search

The Contractor shall review past environmental databases, as stipulated within the ASTM standards. At a minimum, the Contractor shall search the following databases, as appropriate for the property, to help determine if hazardous sites or serious local environmental problems may exist on or immediately adjacent (see radius specifications) to the property:

- * The National Priorities List (1 mile radius);
- * Delisted National Priorities Lists (½ mile radius);
- * The Comprehensive Environmental Response, Compensation, and Liability Information System (½ mile radius);
- * The Comprehensive Environmental Response, Compensation, and Liability Information System No Further Remedial Action Planned Database (½ mile radius);
- * The Solid Waste Landfills/Facilities Database (½ mile radius);
- * The Emergency Response Notification System and Hazardous Materials Incident Reporting System (¼ mile radius);
- * The Resource Conservation and Recovery Information System (½ mile radius for treatment, storage or disposal (TSD) facilities and ¼ mile radius for generators);
- * Any state listing of registered and leaking underground storage tanks (¼ and ½ mile radii, respectively);
- * The Louisiana Inactive and Abandoned Sites List (1 mile radius); and,
- * Louisiana Department of Natural Resources Oil and Gas Wells Database (1 mile radius).

In addition, the Contractor shall conduct a review of the site history, background information and preliminary data available from the State of Louisiana and/or other sources, including an environmental regulatory database search report prior to conducting site inspections. The contractor shall also verify property boundaries and past ownerships. No title search will be required. The review shall be conducted to help establish the type of activities that were previously conducted on the property. Standard historical sources that are reasonably ascertainable, such as fire insurance maps, USGS topographic maps, historical aerial photographs, city directories, and building department records shall be reviewed.

Task 2: Site Inspection/Interviews

The contractor shall conduct interviews with individuals having past experience and knowledge of the site, prior to conducting a detailed site inspection. Interviews with the State NDEQ regarding Large Quantity

Generators(LQG) and Small Quantity Generators (SQG) located in the general vicinity of the project location are recommended. The inspection shall include the review of available historical aerial photographs of the site and surrounding properties. The site inspection shall not be limited to the property under consideration, but the adjacent properties shall also be inspected based on legal access. Site plans and topographic maps, where available, shall also be reviewed. The site inspection shall include an inventory of former chemical usage and waste generated on the site (if available); information on aboveground and underground storage tanks; available Superfund Amendments and Reauthorization Act (SARA) Title III reporting information; environmental permitting information and permits from local, state, or federal agencies; engineering reports and surveys relevant to environmental issues; records of claims, litigation, spills, noncompliance, complaints, etc., related to environmental practices; environmental monitoring data, including groundwater and soil testing, local geology and hydrogeology in the vicinity of the site; and data on electrical equipment containing polychlorinated biphenyl (PCB) fluids. Interviews shall be conducted with knowledgeable persons regarding site history. This may include, but is not limited to current and past owners of the property.

Task 3: Draft Report Preparation

A draft report for the following reaches and combined reaches will be generated. These reports will be given the following priority and will be submitted according to the following schedule. These reports will document the results of the research, interviews, on-site inspections, and other findings. The reports shall provide an overall assessment of past activities and recognized environmental conditions, if any. If additional investigations are warranted, the report shall describe, in general, the activities recommended.

LEVEE REACH	PRIORITY	DRAFT REPORT DUE	FINAL REPORT DUE
LPV 109	1	01/15/07	01/25/07
LPV 105,106,107	2	01/15/07	01/25/07
LPV 108	3	01/22/07	02/02/07
LPV 110,111	4	01/22/07	02/02/07

Task 4: Review Draft Phase I ESA Report

The Corps of Engineers shall be given the opportunity to review the draft Phase I ESA Report to ensure compliance with the Scope of Work and to ensure all tasks and activities are addressed in the report. The Corps shall provide the contractor a list of all comments requesting clarification and resolution in the final report no more than four working days after receipt of the draft document.

Task 5: Final Report /Distribution and Formal Presentation

Upon receipt of all comments, the Contractor shall make all necessary changes to the report. The Contractor shall provide 3 original copies of the final report with one copy of the report on compact disc (CD) to the Contracting Officer by according the schedule identified above.





Project LPV105

- Link
- Federal Water Control Structure
- Channel Floodgate
- Road Floodgate
- Road Floodgate
- Pump Station
- Pump Station
- Federal Floodwall
- Federal Hurricane Levee
- Federal Levee
- Federal Levee and Floodwall
- Federal RearHurricane Levee
- Federal RearHurricane Levee and Floodwall
- Federal Rear Hurricane Levee
- Federal Rear Levee
- Federal River Levee and Floodwall
- Federal T Floodwall
- Floodway Dike
- Lin of Drainage Levee
- Lin of Hurricane Levee
- Lin of Hurricane Levee and Floodwall
- Lin of Levee to Floodwall

LPV 106 - 21.930'
 1 Road Floodgate
 2 Pump Stations
 Federal Hurricane Levee - 21.855'
 Structure Gap (1) - 75'



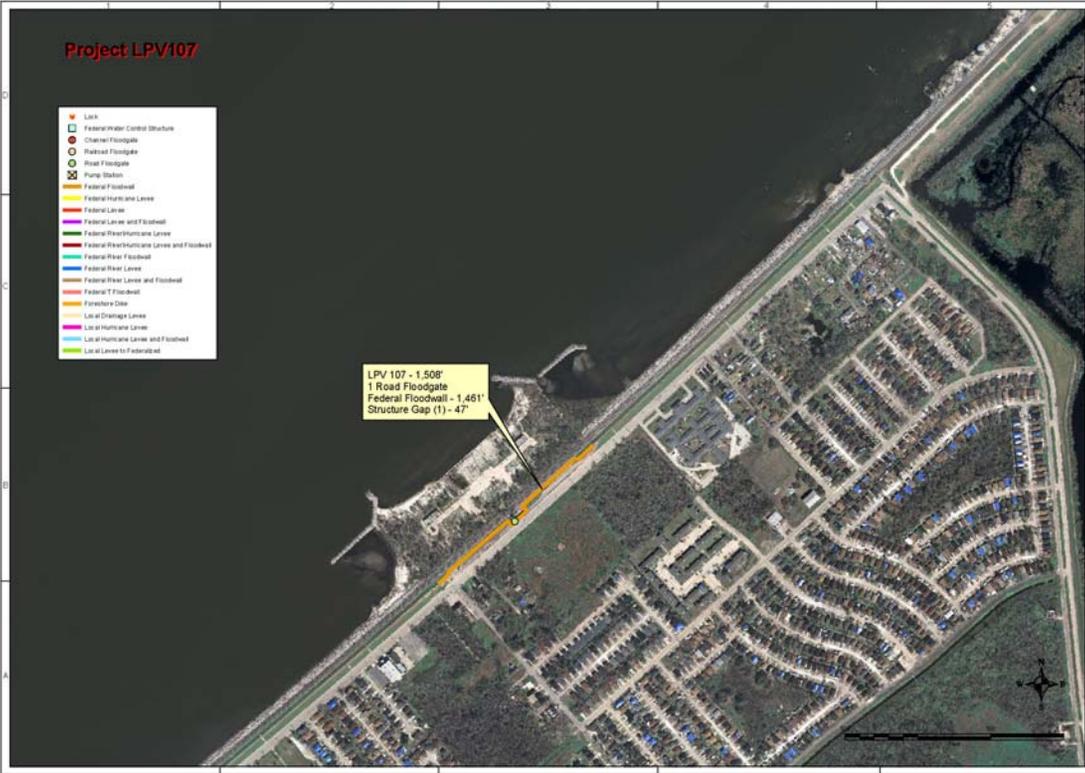
HPO
 HERRING COUNTY
 PUBLIC WORKS DEPARTMENT
 PROJECT LPV105

DRAWING IDENTIFICATION
 NUMBER
 SIX

Project LPV107

- Link
- Federal Water Control Structure
- Channel Floodgate
- Road Floodgate
- Road Floodgate
- Pump Station
- Federal Floodwall
- Federal Hurricane Lease
- Federal Lease
- Federal Lease and Floodwall
- Federal Rear Hurricane Lease
- Federal Rear Hurricane Lease and Floodwall
- Federal Rear Floodwall
- Federal Rear Lease
- Federal Rear Lease and Floodwall
- Federal T Floodwall
- Frontline Line
- Line of Drainage Levee
- Line of Hurricane Levee
- Line of Hurricane Levee and Floodwall
- Line of Levee to Floodwall

LPV 107 - 1,508'
 1 Road Floodgate
 Federal Floodwall - 1,461'
 Structure Gap (1) - 47'

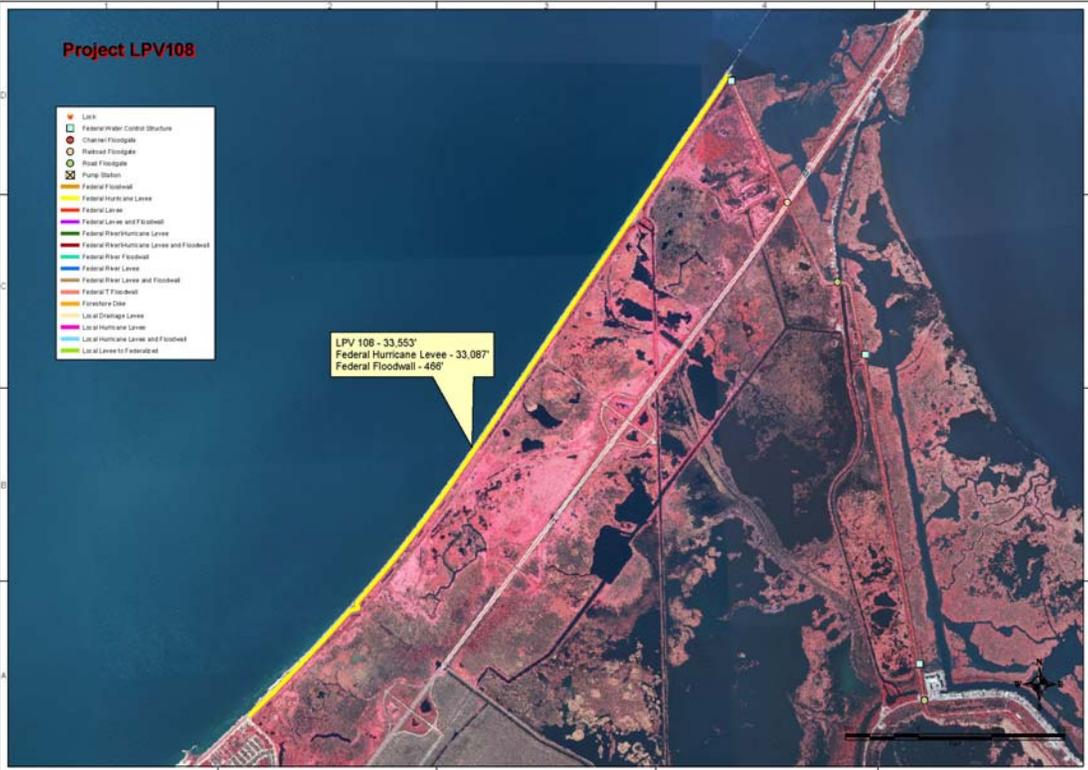


 H. M. & M. ENGINEERS 1515 S. GULF BLVD., SUITE 200 HOUSTON, TEXAS 77057 TEL: 281.465.1111 FAX: 281.465.1112	
PROJECT: LPV 107 SHEET: 107-1 DATE: 08/14/2013 DRAWN BY: JK CHECKED BY: JK SCALE: AS SHOWN	SHEET NO.: 107-1 TOTAL SHEETS: 107-1 PROJECT NO.: 107-1 DATE: 08/14/2013
HPO HERRING COUNTY POLICE DEPARTMENT PROJECT LPV107	
SHEET NUMBER 107-1	

Project LPV108

- Lock
- Federal Water Control Structure
- Channel Floodgate
- Railroad Floodgate
- Road Floodgate
- Pump Station
- Federal Floodwall
- Federal Hurricane Levee
- Federal Levee
- Federal Levee and Floodwall
- Federal Rear Hurricane Levee
- Federal Rear Hurricane Levee and Floodwall
- Federal Rear Floodwall
- Federal Rear Levee
- Federal Rear Levee and Floodwall
- Federal T Floodwall
- Frontline Dike
- Lin of Drainage Levee
- Lin of Hurricane Levee
- Lin of Hurricane Levee and Floodwall
- Lin of Levee to Floodwall

LPV 108 - 33,553'
 Federal Hurricane Levee - 33,087'
 Federal Floodwall - 496'



HSA U.S. ARMY CORPS OF ENGINEERS DISTRICT OF CORPUS CHRISTI	
PROJECT NO.: DRAWING NO.: SHEET NO.: DATE:	SCALE: BY: CHECKED BY: DATE:
HPO HERRING COUNTY POLICE DEPARTMENT PROJECT LPV108	
SHEET NUMBER SIX	





November 14, 2006

Earth Tech, Inc.
536 Washington Avenue
New Orleans, LA 70130

U.S. Army Corps of Engineers, New Orleans District
Hurricane Protection Contracting Division
Attn: Mr. Jack Little
P.O. Box 60267
New Orleans, LA

Subject: Contract No. DACA45-03-D-0032 (ERS Contract)
Submittal of Proposal for Phase I Environmental Site Assessments
Federal Project Numbers: LPV105 through 111
New Orleans, Louisiana

Dear Mr. Little:

Enclosed is Earth Tech's revised cost proposal for the subject task order under Earth Tech's ERS Contract. The enclosed proposal package includes a revised cost estimate and assumptions, and incorporates our response to comments from Lee Walker. We are proposing to execute this task order using a cost-plus-fixed fee (CPFF) basis. The actual level of effort and costs charged to the government will vary, and will only be that required to complete the work. We will not exceed this estimate without prior written approval from the contracting officer. We propose Mr. Alec Macbeth from our Fort Walton Beach office as the Project Manager on this project.

We appreciate the opportunity to provide these services to the New Orleans District. Should you have any questions regarding this proposal, please contact me at 864-325-0637 (Don.Boyle@earthtech.com) or contact Alec Macbeth directly at (850) 862-5191 (Alec.Macbeth@earthtech.com).

Sincerely,



Donald B. Boyle
ERSC Deputy Program Manager

Enclosure: Proposal Package

cc: Lee Cook
Alec Macbeth

Assumptions and Scope of Services Notes
Cost Estimate for Phase I Environmental Site Assessment for
Federal Project Numbers: LPV 105 - 111
New Orleans, Louisiana
Contract No. DACA45-03-D-0032

Earth Tech will perform a Phase I Environmental Site Assessment (ESA) for Levee Reaches LPV 105 through 111 in accordance with the Scope of Work provided by the Corps of Engineers (USACE) on November 6, 2006. Following are a few clarifications and assumptions used in developing our cost estimate for this project.

1. The RFP states that the contractor shall verify property boundaries and past ownerships, but that no title researches are required. This may prove problematic, in particular for some parts of the properties such as the high-density residential areas along LPV 105 and LPV 106. Earth Tech proposes to review available documents to help establish the types of activities that were previously conducted on parcels in the vicinity of the levee properties, but will not be able to verify property boundaries for residential areas.
2. We plan to focus our attention on the properties or parts of properties that pose the highest risk of potential HTRW. This risk will be evaluated on the basis of the records search and any other pertinent information. We will base our level of effort on interviewing knowledgeable individuals based on the risk of potential HTRW along that part of the levee properties or parcels. For example, we may not be able to visit and/or interview a member of each of the residential parcels along the way, but we will attempt to conduct at least one interview pertaining to each of industrial/commercial facilities associated with this ESA.
3. We hope to accomplish this ESA with minimal support from USACE. However, in accordance with Section 6.0 of the ASTM E1527-05, we will rely on the USACE to provide information as required and appropriate as the user of the properties.