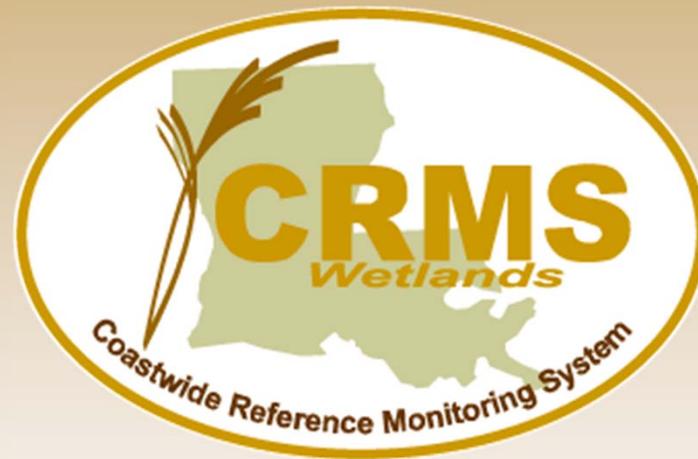


**Coastwide Reference Monitoring System
for the
Coastal Protection and Restoration Authority of Louisiana**



REQUEST FOR PROPOSALS
Pre-proposal Meeting
February 14, 2012



Request for Proposals

Introductions:

- **Dona Weifenbach, CRS Manager, CPRA Lafayette Field Office**
- **Glen Curole, CRS Supervisor, CPRA Thibodaux Field Office**
- **Bill Boshart, CRS Supervisor, CPRA New Orleans Field Office**
- **Leigh Anne Sharp, CRS Supervisor, CPRA Lafayette Field Office**
- **Ed Haywood, CRS Manager, CPRA Baton Rouge**
- **David Burkholder, Engineer 7 Manager, CPRA Baton Rouge**
- **Barry Zeringue, CPRA Support Services Section**
- **Renita Hoskins, DNR Contracts and Grants**



Request for Proposals

Presentation Overview:

- **Administrative and General Information**
- **Scope of Work**
- **Evaluation Criteria**
- **Performance Standards**
- **Sources For More Information**



Request for Proposals

Overview of Administrative and General Information

Schedule of Events:

RFP was distributed	January 30, 2012
Addendum to RFP	February 2, 2012
Pre-proposal Conference	February 14, 2012
Deadline for written questions	February 20, 2012
Proposal Deadline	March 5, 2012
Notice of Intent to Award	April 2, 2012
Contract Initiation	Planned for August 1, 2012

Proposal Submittal:

1 signed original and 6 copies

Must be delivered to DNR Contracts and Grants Management Division - **NO LATER THAN 3:00PM, MARCH 5, 2012**



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Scope of Work Overview

Three Main Tasks:

A. Environmental Studies and Reports

- Environmental site assessments
- Description of habitats and populations
- Ecological analyses
- Programmatic review and recommendations
- Literature reviews
- Evaluation of restoration projects



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Three Main Tasks (cont'd)

B. Environmental Surveys and Data Collection

**** primary component of the CPRA monitoring program:
CRMS-*Wetlands* and project-specific monitoring**

- Environmental and biological surveys
- Damage assessments
- Data collection: vegetation, hydrological, surface elevation, accretion, and soil properties.



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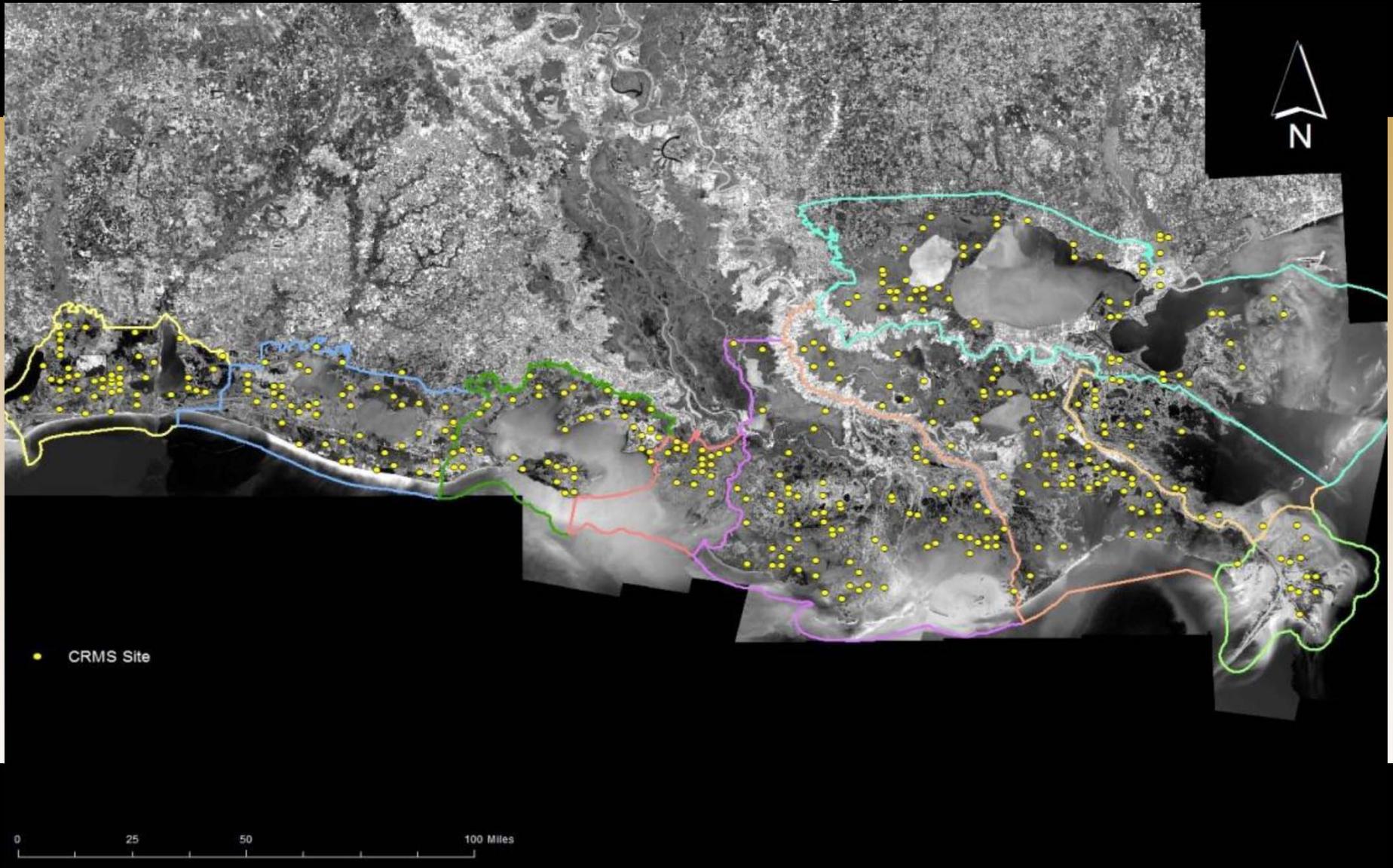
Three Main Tasks (cont'd)

C. Statistical Data Analysis and Management

****primary component of the CPRA monitoring program: CRMS-Wetlands and project-specific monitoring**

- **Assembling data from a variety of sources**
- **Quality assurance/quality control (QA/QC)**
- **Statistical analysis of data**
- **Developing conclusions and making recommendations based on analyses**
- **Developing and operating geographic information systems (GIS)**

Coastwide Reference Monitoring System - Wetlands



Coordinates provided on <http://ocpr.ouisiana.gov/crm/coastres/CRMS-RFP>



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Number of Sites and Major Classes

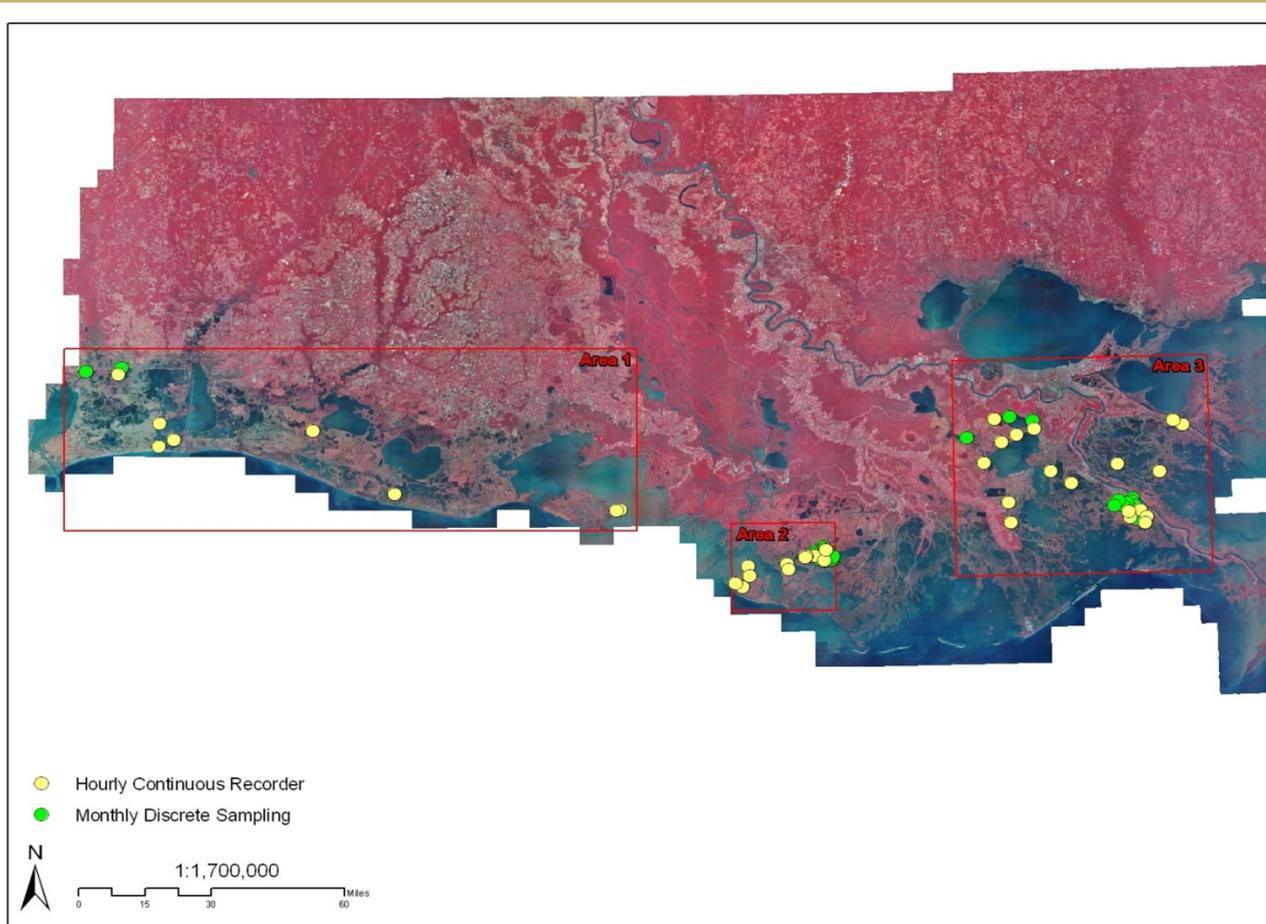
- **381 Total Sites**
- **36 Floating Marsh**
- **309 Non-floating.....50 Swamp Sites**
- **Quantity and class of sites are subject to change**



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Overview of Continuous Recorders and Discrete stations for monthly sampling: Project Specific Monitoring

- 40 Continuous
- 44 Discrete



Coordinates posted on: <http://ocpr.louisiana.gov/crm/coastres/CRMS-RFP>

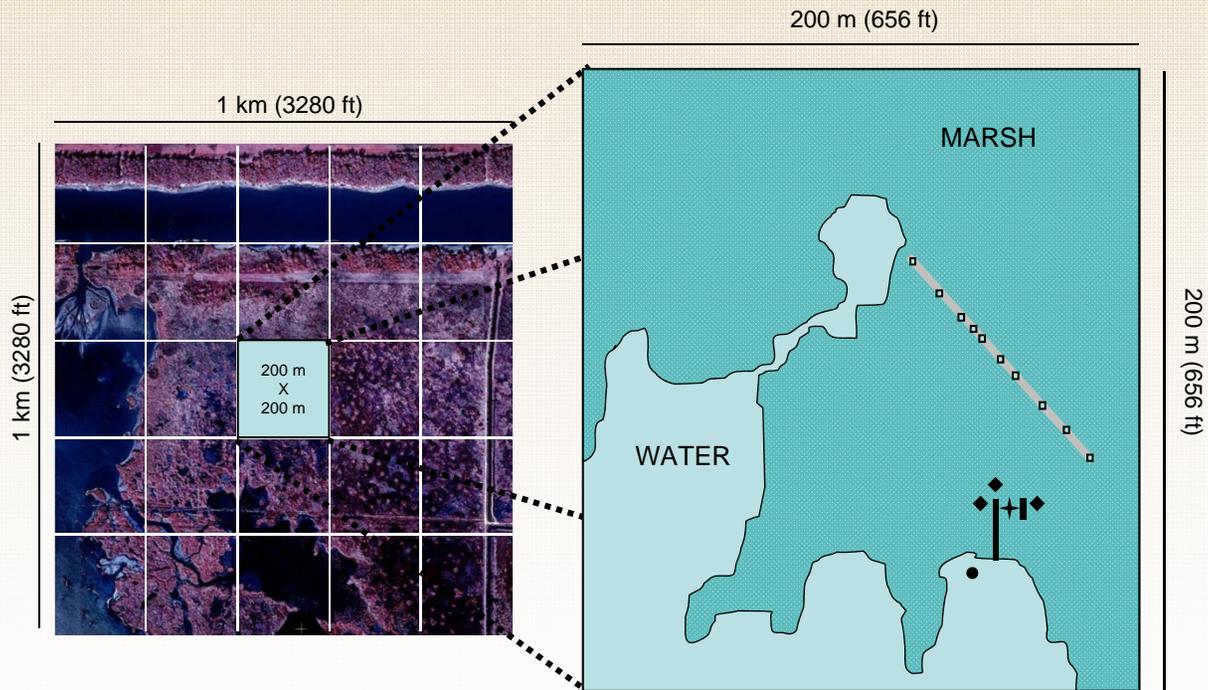


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CRMS Site Design

**CRMS-Wetlands Sampling Area:
1 km² aerial photography area**

**CRMS-Wetlands Sampling Area:
200m X 200m area for non-spatial
data collection**



- 2m X 2m vegetation station
- + Surface Elevation Table (SET)
- ◆ Accretion plot
- Datasonde collecting water level and salinity
- Boardwalk



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Vegetation Composition and Cover

Emergent (herbaceous) Marsh

- 10 permanent 2m x 2m plots along transect within data collection area (DCA)
- Sampled annually from mid July-Sep



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VEGETATION PLOT (2m x 2m)

PVC pole marks SE corner and remains in marsh along established transect





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Vegetation Composition and Cover

SWAMP

- **Canopy layer**: 3 plots, 20m x 20m: ID, DBH, canopy cover
- **Sampled every three years, mid Jul – Sep, starting 2012**

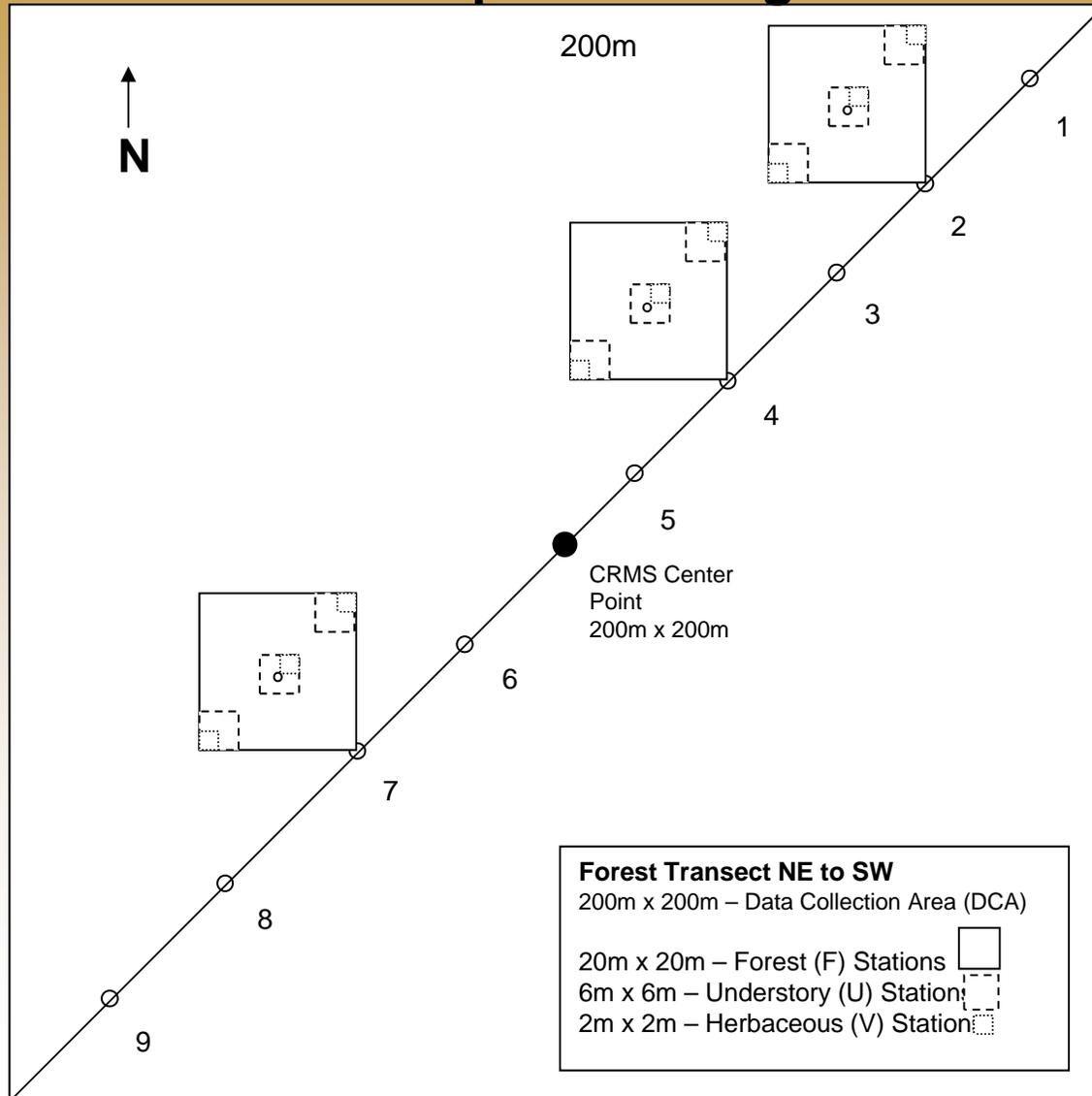
- **Understory layer**: 3 nested 6m x 6m plots = 9 total
- **ID, height, DBH**
- **Sampled every three years, in conjunction with canopy layer**

- **Herbaceous layer**: 3 nested 2m x 2m plots = 9 total
- **sampled annually and in conjunction with forest plots in overlapping years**



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Swamp Site Design





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Hydrology

- **Continuous recorder stations:**
 - 1) open-water
 - 2) well
 - 3) floating marsh (true floating and static)
- **Data recorded to file hourly**
- **Stations surveyed to NAVD88**
- **Continuous recorder serviced 6 - 12 times per year**
- **Continuous recorders supplied by contractor**
- **Discrete porewater salinity measured at CRMS site during each service trip**
- **Porewater salinity will also be measured at each herbaceous vegetation plot during vegetation sampling.**



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Continuous Recorder – Open Water





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Continuous Recorder – Well





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Floating Marsh Mat Recorder





Request for Proposals

Static Marsh Mat Recorder





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Surface Elevation

- **A Rod-Surface Elevation Table (RSET) was installed at each non-floating marsh site.**
- **RSET elevation was established using Real-Time Kinematic survey methods from a primary or secondary benchmark within a 3-mile radius or established at the site.**
- **Sampled twice per year during Feb-Mar and Sep-Oct.**
- **In floating marshes, a marsh-mat recorder will be used to monitor marsh-mat movement.**



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Rod Surface Elevation Table (RSET)





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Accretion

- **Three (3) 1/2 m x 1/2 m feldspar clay plots were established adjacent to the boardwalk and will be re-established coastwide in spring of 2014**
- **Core samples are taken with a cryogenic corer and on the same day that elevations are measured at the RSET, twice per year, Feb-Mar and Sep-Oct)**
- **The number of cores taken will vary from 3 to 9 per site per sampling period as outlined in Folse et al. 2012**



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FELDSPAR PLOT FOR MEASURING ACCRETION RATES PVC pole marks plot corner and remains in marsh





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Soil Properties

- **3 cores are taken with a 4-inch PVC core-extracting device near each CRMS station (RSET)**
- **pH (wet and dry), salinity (EC), moisture content, bulk density (dry), organic matter content, and wet and dry volume will be determined from each core sample**
- **Core samples were collected at all CRMS sites at construction, but will be required at all swamp sites during the term of this contract**



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Site Access

- Contractor must notify or acquire permission from landowners prior to accessing their property.....see landowner agreements for specifics
- Site access often restricted and in some cases prohibited during hunting seasons
- Staff will at times encounter lessees unaware of landowner agreements
- Landowner requirements can and will change
- It is recommended that the Contractor maintain at least one full time position to handle landrights responsibilities



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Quality Assurance

- **All data must meet minimum data-quality standards outlined in the SOP (Folse et al. 2012)**
- **Contractor must adhere to field and QA/QC procedures, timelines, data formats, etc. outlined in SOP (Folse et al. 2012) - procedures can change**
- **Final quality-checked data in the proper format to be loaded remotely via FTP into SONRIS Database**
- **Data analysis and management includes QA/QC, in the field and in the office, data loading/transfer to SONRIS, and general documentation of field conditions can account for up to 40-50% of the CRMS-*Wetlands* implementation workload**



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Reporting (minimum requirements)

- **Weekly e-mail report detailing sites serviced and describing maintenance issues encountered on service runs**
- **Monthly status report to be submitted with invoices indicating the stations serviced, raw data transferred, and final data transferred to SONRIS**



Request for Proposals

Overview of Evaluation Criteria

Proposal Review Committee will evaluate and rank proposals according to the following criteria to be weighted according to points listed:

1. **Technical approach** to the project and adequacy of proposal to achieve the requirements of the Scope of Services in sufficient detail. (30)
2. **Cost** (30). Proposals will be rated by following procedure:
 - a. Lowest cost proposal will receive 30 points.
 - b. All other proposals will be rated by:
30 x (Lowest Rate Schedule/ Proposer's Rate Schedule)
3. **Relevant experience** of the firm and qualifications of the key personnel assigned to this project. (30)
4. **Hudson/Veteran Small Entrepreneurship Program** (10)



Request for Proposals

Overview of Performance Standards

Performance Requirements

- **Timely, complete, and high quality (i.e., error free) data collection and deliverables that meet all protocols explained in SOP**
- **Regular communication at all levels – to include frequent (at least weekly) status reports**
- **Follow all landowner requirements**



Request for Proposals

For More Information

Additional information (including station locations and maps) provided at

<http://ocpr.louisiana.gov/crm/coastres/CRMS-RFP>

And on the CRMS website at:

<http://www.lacoast.gov/crms2/Home.aspx>

Time for your questions.