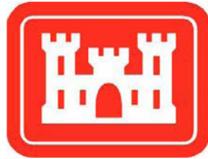


## **On-Board Review**

# **FINAL REPORT FOR THE COASTAL REGIONAL SEDIMENT MANAGEMENT PLAN (CRSMP) EUREKA LITTORAL CELL, HUMBOLDT COUNTY**

**Prepared For:**



**U.S. Army Corps  
of Engineers®**  
Los Angeles District

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## 1. INTRODUCTION

The Moffatt & Nichol team is under contract with the US Army Corps of Engineers, LA District to prepare a Coastal Regional Sediment Management Plan (CRSMP) Report for the Eureka Littoral Cell in Humboldt County. As part of the work, the first task is to prepare an initial On-Board Review submittal that outlines the procedures to be followed in the conduct of the study and identifies key personnel who will assist the LA District Project Manager and SF District Lead Planner in managing the study.

The current document serves the purpose of an On-Board Review by identifying key personnel that will be involved in the study, along with a work plan that describes the work to be completed, the expected deliverables, and the schedule.

## 2. OVERALL SCOPE OF PROJECT

The scope of the project is to prepare a CRSMP for the Eureka Littoral Cell, and provide assistance in facilitating communication between the Coastal Sediment Management Workgroup (CSMW), relevant Corps Districts (San Francisco and Los Angeles) and the Humboldt Bay Harbor, Recreation and Conservation District (HBHRCD), as well as assist in coordination with the various stakeholders involved in the study.

## 3. BACKGROUND

The California Coastal Sediment Master Plan is a concept borne by the South Pacific Division (SPD) and the State Natural Resources Agency chaired by the CSMW. The concept is to develop a region-wide sediment management plan encompassing the entire California coastline to maintain and restore the health of California's beaches and shoreline.

Authority is derived from the Water Resources Development Act of 1986, and the House Committee on Transportation and Infrastructure Resolution 2672, May 22, 2002, which requested the Secretary of the Army to develop a comprehensive plan for the management of sediment in coastal California for purposes of reducing shoreline erosion and coastal storm damages, providing for environmental restoration and protection, increasing natural sediment supply to the coast, restoring and preserving beaches, improving water quality along coastal beaches, beneficially using material dredged from ports, harbors, and other opportunistic sediment sources, and related purposes.

A Coastal Regional Sediment Management Plan (CRSMP) is a comprehensive guidance and policy document discussing how regional sediment management can be implemented in an expeditious, cost-effective, and resource-protective manner. The plan typically incorporates a multitude of components including:

- Engineering
- Environmental
- Economics
- Recreation
- Policy
- Legal
- Real estate
- Regulatory
- Financial considerations
- Physical processes and barriers
- Coastal watershed land-uses
- Current and projected watershed developments

The objectives of the plan are to:

1. Provide a strategy to restore and maintain coastal beaches and other critical areas of sediment deficit;
2. Reduce the proliferation of protective shoreline structures;
3. Sustain recreation and tourism;
4. Enhance public safety and access;
5. Restore coastal sandy habitats through the region/littoral cell; and
6. Address areas with excessive sediment.

The document should provide sufficient information for decision-makers to develop policies and/or execute management sub-plans to ensure the future vitality of California's beaches and shoreline. Spatial information should be hosted in an interactive web-mapping site (GIS based) for access by the CSMW.

#### 4. TEAM ORGANIZATION & WORK PLAN

The Moffatt & Nichol team will prepare a CRSMP report for the Eureka Littoral Cell in Humboldt County based on the results of data collection, plan formulation, and stakeholder outreach efforts, which are described in more detail below. A Team Organization matrix, and description of deliverables and submittal dates are also described below.

##### TEAM ORGANIZATION

<b><u>Client</u></b>	
Study Manager	Susie Ming, Chief, Coastal Section, USACE - LA District
Lead Planner	John Dingler, USACE – SF District
<b><u>A/E Team</u></b>	
Project Manager	Dilip Trivedi, M&N
Principal-In-Charge	Russ Boudreau, M&N
Asst Project Manager	Chris Webb, M&N
Data Collection / Review	Susan Tonkin, M&N
GIS Deliverables	Brian Leslie, M&N
Coastal Data Analyses	Christopher Devick, M&N
Environmental / Biology	Noel Davis, Chambers Group
Outreach Facilitation	Elizabeth Watson, Humboldt State University
Fisheries Biology	Peter Nelson, HT Harvey & Associates

##### WORK PLAN

#### 1. On-Board Review

The first activity described in the Scope of Work is an initial On-Board Review submittal (this document) that outlines the procedures to be followed for the study and identifies key personnel who will assist the LA District Project Manager and SF District Lead Planner in managing the study.

The current document serves the purpose of an On-Board Review. A kick-off meeting will be held the week of June 28, 2010 with the LA District project manager, the SF District lead planner, and the A/E Team to discuss procedures, deliverables and schedule.

*Deliverable: On-Board Review [this document]*

*Schedule: 6/25/2010 [within 30 calendar days of task order award]*

## **2. Data Collection & Compilation**

This task includes reviewing and summarizing available data and information and compiling it in a geo-referenced ArcGIS, Microsoft Access database, or narrative formats. Information to be collected for the Eureka Littoral Cell coastal area includes relevant coastal studies describing physical processes in the region, location of coastal erosion hotspots, location of sensitive habitats and biota, location of potential sediment sources such as harbors, dams, and opportunistic offshore borrow areas, location of potential sediment receiver sites such as wetlands, beach nourishment, etc. and data related to physical characteristics of sediment at the potential source areas as well as receiver sites.

An annotated summary of the reports reviewed will be prepared and provided in Excel or Word format. GIS shape files for data compiled from various sources will be provided in electronic format.

Data will be obtained from the CSMW, library databases, SF District Corps, the local sponsor, and from stakeholders who we will contact.

*Deliverable: Data Collection & Compilation Memorandum + GIS Files*

*Schedule: 9/2/2010 [within 120 calendar days of task order award and receipt of documents to be furnished by the Government, assuming the DMMP can be provided to us by early July]*

## **3. Plan Formulation**

This task includes formulating an array of potential projects with implementation priority, along with information related to sediment compatibility between source and receiver sites, economic feasibility of stockpiling, transport, and placement, biological and regulatory issues associated with implementation, and identification of potential funding streams and data gaps. A relative Sea Level Rise analysis for the study area will also be conducted as part of this task.

Potential projects will be identified based on the literature review, data analysis, and discussions with stakeholders.

Three (3) Technical Memoranda outlining the progress of the plan-formulation process will be provided in digital format (Word and PDF) as described below.

*Deliverable: Technical Memorandum 1 (Preliminary Implementation Options Identification)  
Technical Memorandum 2 (Analysis of Implementation Options, Sea Level Rise Analysis, and Potential Constraints/Opportunities)  
Technical Memorandum 3 (Summary of Plan Formulation Efforts)*

*Schedule: 10/25/2010 for Technical Memorandum 3 [within 150 calendar days of task order award and receipt of documents to be furnished by the Government, assuming the DMMP can be provided to us by early July]  
Tech Memos 1 and 2 will be provided earlier (10/8/2010 and 10/22/2010)*

#### **4. Outreach Facilitation & Coordination**

This task includes assisting the District as needed with their efforts in engaging major stakeholders in the process, developing a local and regional agency governance structure, formulating collaborative strategies for regional project implementation, developing project sustainability strategies including adoption of the RSM Plan by local and regional entities, ensuring coordination and understanding of Corps policies and processes, providing follow-up information for issues raised by stakeholders and regulations, and working with the CSMW to ensure that the implementation projects adequately reflect the needs of the region and state.

A monthly summary of progress will be provided to the Study Manager and Lead Planner.

We will ensure that the outreach efforts adequately identify and include all interested stakeholders, including those currently listed in CSMWs Public Outreach Contact List. The following meetings in the Eureka area are envisioned:

- Stakeholder Meeting No. 1 will be convened in mid-July to introduce the CRSMP objectives and study scope, and to solicit input on problems and potential solutions.
- Stakeholder Meeting No. 2 will be convened in early October to present a summary of data, and to obtain feedback and additional input on alternatives.
- Stakeholder Meeting No. 3 will be convened in early November to present preliminary implementation projects (Plan Formulation) and to obtain feedback.
- Stakeholder Meeting No. 4 will be convened in mid-January to present the CRSMP Report and to obtain feedback.
- Two (2) other focused stakeholder meetings with smaller groups will be organized to obtain feedback on specific issues that may arise during the course of the study. These meetings may occur on the same day as the larger meetings to maximize efficiency

*Deliverable: Monthly Progress Reports and Meeting Summaries*

*Schedule: 7/2010 through 1/2011*

#### **5. Preparation of CRSMP Report**

This task includes the preparation of Draft and Final versions of the CRSMP report. Sections dealing with all of the above tasks will be presented in the report.

*Deliverable: Draft CRSMP Report*

*Final CRSMP Report*

*Schedule: 11/22/2010 for Draft CRSMP Report [within 180 calendar days of task order award and receipt of documents to be furnished by the Government, assuming the DMMP can be provided to us by early July]*

*1/24/2010 for Final CRSMP Report [within 30 calendar days of receipt of comments on the Draft CRSMP report, assuming comments are received by late December]*