

**A Model for the Evaluation and Management of
Contaminants of Concern in Water, Sediment, and
Biota in the NY/NJ Harbor Estuary**

INSTRUCTIONS FOR SUBMITTING PROPOSALS

On behalf of the Contamination Assessment and Reduction Project (CARP) of the NY/NJ Harbor Estuary Program (HEP), The Hudson River Foundation (HRF) seeks proposals from contractors to develop and apply mathematical modeling tools to integrate available ambient concentration and loading data to evaluate contaminant fate, transport and bioaccumulation in the NY/NJ Harbor Estuary. These models may also be used to provide predictive capability to dredged material and contaminated sediment managers who are evaluating the consequences of various remedial actions.

A tiered approach will be taken in developing models for the CARP. Tier-one will involve selecting, refining and applying existing large-space-scale, seasonal-time-scale model(s) for contaminant fate and bioaccumulation. Tier-two will be the development of explicit, finer-scale models that couple hydrodynamics, water quality, and cohesive sediment transport. A detailed Request for Proposals for *A Model for the Evaluation and Management of Contaminants of Concern in Water, Sediment, and Biota in the NY/NJ Harbor Estuary* is attached.

I. Background

The CARP is an estuary-wide program to measure and model the sources and ambient levels of contaminants in the New York/New Jersey Harbor Estuary system. Components of the program include quantification of sources (sewage treatment plants, combined sewer overflows, tributaries, storm water overflows, atmospheric deposition, etc.) of organic and inorganic contaminants and ambient levels of those contaminants in water, sediments, and biota. Data collected under this program will be used to make management decisions about dredged material disposal in the Harbor region and to provide a baseline for future monitoring of these parameters to determine ecosystem health.

The sampling and analysis programs of the states of New York and New Jersey, defined in the detailed work plans *Sources and Loadings of Toxic Substances to New York Harbor* (New York's work plan) and the *New Jersey Toxics Reduction Workplan*, comprise the majority of the field and laboratory measurements of the CARP. These documents are available from the Hudson River Foundation or by downloading from the HRF web site at www.hudsonriver.org/hep/carp.htm.

Financial resources for model development are being provided to the Hudson River Foundation by the Port Authority of New York and New Jersey as part of the Joint Dredging Plan for the Port of New York and New Jersey. The requirements and conditions of the agreement between the Port Authority and the Foundation are applicable to any contractors when the Foundation selects to perform services in connection with that agreement. Such requirements and conditions will be included in contractual arrangements between the Foundation and the modeling contractor.

II. Criteria for Evaluating Proposals

Proposals will be evaluated using the following criteria:

- \$ Demonstrated experience in conducting similar work successfully
- \$ Qualifications of the personnel to be assigned to the program
- \$ Merit of proposed approach to accomplishing objectives outlined in the RFP
- \$ Likelihood of success in meeting stated objectives
- \$ Cost

III. Proposal Submittal Information

Proposals should be no longer than 20 pages and include the following elements:

- \$ *Cover Page* (please use attached form)
- \$ *Statement of Work*: Proposers should present a clear and detailed description of the modeling approach they intend to follow. The discussion shall include reasons for acceptance or rejection of elements of the modeling approach outlined in the attached RFP. Where modifications are offered, justification should be given. Proposers should relate relevant experiences to the project they are now proposing. The *Statement of Work* should generally be no longer than 20 pages.
- \$ *Qualifications* and CV(s) of all project personnel
- \$ *Statement of related experience* of the contractor
- \$ *Itemized budget*: (Please use the forms provided.) The project budget is to be shown in two ways: (1) Total project budget by **category of expense** on the attached Hudson River Foundation form, and (2) Total project budget by **task**. Tasks for this contract are described in bulleted lists in sections VII and VIII on pages 11-17 of the attached Request for Proposals. For each task, proposals should provide a detailed cost breakdown.

Project period: Four years

Approximate level of funding for entire modeling project: \$2,500,000.00

Deadline: Proposals (original plus 20 copies) must be received by the office listed below by the close of business on **Friday, September 8, 2000**.

Contacts: Submit proposals to: Dr. Dennis Suszkowski
Hudson River Foundation
40 West 20th Street, 9th Floor
New York, NY 10011

For more information contact Dr. Suszkowski at (212) 924-8290 or dennis@hudsonriver.org.