



Request for Proposal

[The Bay Foundation](#) (TBF), in partnership with [San Francisco Estuary Partnership](#) (SFEP), seeks to hire a Consultant to provide **professional engineering analysis services on both a methodology and data sets produced from a collection effort that was developed to determine how much recreational vessel sewage is kept from California's waterways through the use of state-funded sewage pumpouts.**

Background

TBF is a 501(c)(3) nonprofit organization working to restore and enhance Santa Monica Bay. TBF's [Boater Education Program](#) creates and distributes tools and resources to educate the boating community about environmental boating laws, proper waste disposal, and pollution prevention practices. One component of the program, the Sewage Volume Study, assists the California State Parks Division of Boating and Waterways in determining the volume of sewage (blackwater) that flows annually through state-funded sewage pumpouts.

SFEP is a place-based program created by the U.S. Environmental Protection Agency under the Clean Water Act's National Estuary Program to protect and restore the San Francisco Bay-Delta Estuary. The Clean Vessel Program is an education, outreach and monitoring program that teaches about the effects of treated and untreated boat sewage and encourages boaters to use pumpout and dump stations rather than discharging overboard. SFEP has been working alongside TBF on the Sewage Volume Study.

The focus of the professional services provided will be to review and analyze field data to determine the volume of boat sewage flowing through state-funded stationary sewage pumpouts. The data includes the number of hours a pumpout unit runs and the rate at which water flows through it (flow rate), further context will be provided by the project team. TBF and SFEP request services to understand the accuracy of the collected data, and whether it can be extrapolated over time to calculate an estimate of the total volume of sewage any single pumpout unit collects over a one-year period.

In addition, we would like to identify source(s) of error in the data gathered and the methodology used, understand the relative effects of those errors on a yearly volume estimate, answer how a yearly volume estimate of one unit can inform quantification of volume for all units across the state, confirm the importance of the make and model of a sewage pumpout unit when producing a yearly estimate and discover what elements are missing from our existing methodology to accomplish this.

Scope of Work

- Review four sets of statewide field data.



- Analyze data and inform the feasibility of extrapolating results to determine a region- or state-wide estimate.
- Identify any gaps and errors and provide recommendations for further analysis.
- Perform Quality Assurance and Quality Control processes and procedures to data, methodologies, and field work processes.
- Summarize findings related to all the above in a report.

Deliverable

- Report summarizing analysis and conclusions.

Timeline

- 10/20/2023: Methodology summary and data sets submitted to the selected contractor.
- 11/09/2023: Initial review and assessment completed.
- 11/16/2023: Update TBF and SFEP on results and conclusions.
- 12/08/2023: Summary report due.

Budget

- \$5,000 [\$3,000 billed to The Bay Foundation, \$2,000 billed to San Francisco Estuary Partnership]

Recommended Qualifications

- Ability to assess and manage datasets, familiarity with statistical methods, data reporting, and modeling.
- Authorship of technical and scientific documents.
- Experience communicating complex scientific information in a distilled and understandable manner.

Proposal Submissions

Please specify and include your proposal:

- Aligned experience, skill sets, and expertise to complete the Scope of Work.
- Two to three sample reports from previous clients.
- Total budget and hourly rates. If you are offering us a nonprofit discount, all discounts are tax-deductible.
- If certified as a Small Business, Disabled Veterans Business, Women-owned Business, and/or Minority-owned Business, and a current copy of your active certification.

Please submit your proposals by 5:00 pm PST on September 15, 2023 to community@santamonicabay.org and natasha.daniels@sfestuary.org.



Equal Opportunity Employer

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