



STFATE Model Runs for East River Dredged Material Placement at HARS for CENAN

ERDC Dredging Operations Technical Support Program (DOTS)

U.S. ARMY CORPS OF ENGINEERS

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Response Summary:

Performed STFATE model runs of open water disposal of East River dredged material at the HARS. Analyzed the standard elutriate test results for the contaminant of concern. Analyzed the water column toxicity results to determine the dilution required for the limiting permissible concentration. Summarized the disposal boundary offset values as a function of barge size (3500 and 6000 cubic yards) in a table documenting the results of the review and modeling.

Period of Performance:

Start date: 2 June 2021 Completion Date: 10 June 2021

Benefits of the Response to the USACE Dredging/Navigation Program:

The modeling and analysis provided the technical documentation to demonstrate water column compliance with MPRSA 103 requirements.

Deliverable:

The technical response to the New York District included STFATE model input and output files, spreadsheet for calculating dilution requirements and materials volumetric fractions, and a table of required placement offsets from the disposal site boundaries.



Providing environmental and engineering technical support to the U.S. Army Corps of Engineers
Operations and Maintenance navigation and dredging missions

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