



# STFATE Runs for Revised Tier 2 Analysis of Bronx River Reaches 1 & 2 Dredged Material Disposal 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 Bronx River Reaches 1 & 2 composite dredged materials at the HARS using updated standard elutriate test results for the contaminant of concern as part of the Tier 2 analysis. Summarized the disposal boundary offset values and time to achieve water quality compliance 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: 7 July 2023      Completion Date: 11 July 2023

### 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 and times to achieve water quality compliance within the disposal site.



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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