



STFATE Model Runs for Evaluating Placement for American Sugars, Reach 1 and Reach 2

ERDC Dredging Operations Technical Support Program (DOTS)

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Response Summary:

Performed STFATE model runs of open water disposal of American Sugars dredged material from Reaches 1 and 2 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 in a technical memo documenting the results of the review and modeling.

Period of Performance:

Start date: 20 May 2018 Completion Date: 26 May 2018

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 provided STFATE model input and output files, spreadsheet for calculating 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

Paul R. Schroeder, PhD.PE
Environmental Laboratory • Paul. R.Schroeder@usace.army.mil

DOTS ID: DOTS-18-R54