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TECHNOLOGIES FOR SEDIMENT DECONTAMINATION IN THE PORT OF NEW YORK AND NEW JERSEY*

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Abstract

Contaminated sediments in the Port of New York and New Jersey are a major impediment to dredging of shipping channels and berthing areas. Revised testing guidelines for evaluating the ocean disposal of dredged material has necessitated alternative management and/or disposal options. One solution to this problem is decontaminating the sediments. We are assessing the feasibility of several technologies that include solidification and stabilization, chemical treatment, thermal treatments, solvent extraction, and sediment washing. Bench- and pilot-scale demonstrations were conducted by selected commercial vendors and by the Army Corps of Engineers, Waterways Experiment Station. The scope and results of the two-phase program will be presented. Prospects of scale-up to operations at 100,000 and 500,000 cubic yards per year will be considered.

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