



Sediment Sampling Plan for the Flamingo Bay Marina Basin (U.S. Virgin Islands) - Selection of Military-related COCs

ERDC Dredging Operations Technical Support Program (DOTS)

U.S. ARMY CORPS OF ENGINEERS

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Response Summary:

Karen Urelus, a Corps Regulatory Senior Project Manager in the Jacksonville District was reviewing a proposal to dredge and develop portions of Water Island, St. Thomas in the U.S. Virgin Islands. Portions of the site, including Flamingo Bay, were used by the military for testing during WWII. The EPA Region 2 Dredging, Sediments, and Oceans Section reviewed the sediment testing proposal and recommended Karen reach out to ERDC to determine what specific compounds should be tested that would target chemical warfare residues.

Ms. Urelus provided several documents to inform ERDC of the types of compounds tested as well as the analytical results for sediment samples. ERDC identified the relevant COCs related to military activity in the area and searched for the standard methodology associated with their analysis. Research and inquiries to experts at the USARMY DEVCOM CBC was necessary to identify methodology for chemical warfare agent breakdown products, specifically, 1,4-dithiane; 1,4-thioxane; and thiodiglycol (TDG) and laboratories that could provide such analysis. The information was delivered to Ms. Urelus via email messages and phone calls.

Period of Performance:

17-21 October 2022.

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

The information was used by the Jacksonville District to properly characterize sediment in dredged material.

Deliverable:

The information was delivered to Ms. Urelus via email messages and phone calls.



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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