



ERDC Dredging Operations Technical Support Program (DOTS)

U.S. ARMY CORPS OF ENGINEERS

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Response Summary:

In DOTS Response 18-R43, we provide USACE Portland District (NWP) with a suite of habitat creation options for the Lower Columbia River (LCR) with a focus on the beneficial use of dredged material (BUDM) produced during NWP Operation and Maintenance (O&M) activities. We searched USACE District public websites, the ERDC library's electronic collection, USACE Engineering with Nature website, and various non-governmental and international partner websites (i.e., Deltares, Ecoshape, etc.) for information regarding BUDM projects in an effort to illustrate the breadth of dredge material habitat creation options available. We briefly summarize our findings and suggest avenues for further consideration when planning and designing future BUDM and habitat creation projects in the LCR. Our goal through composing this document and gathering related materials is to provide NWP with a suite of habitat creation options that make use of dredged material for the beneficial uses of habitat creation and enhancement. This exercise is not intended to provide NWP with detailed site-specific recommendations, rather a starting point and collection of reference materials to be used in project planning and development.

Period of Performance:

Start date: 15-April-2018, End date: 29-April-2018

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

This suite of habitat creation options is intended to aid NWP in the development of Regional Sediment Management (RSM) Plans and Dredge Material Management Plans (DMMP) as well as to serve as a starting point for future investigations.

Deliverable:

White Paper



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