



ERDC Dredging Operations Technical Support Program (DOTS)

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Response Summary:

ERDC team members traveled to Portland, Oregon to assist the Portland District in the evaluation of post-wildfire sedimentation impacts to navigation/ecosystem dredging mission on the Lower Columbia River as a result of the Eagle Creek Fire. Post-wildfire impacts on hydrologic and hydraulic response as well as threats to critical USACE infrastructure were assessed. Through the DOTS effort a report and briefing were developed to outline potential impacts, critical data collection needs, as well as mitigation tactics to protect all valuable infrastructures downstream of the wildfire affected areas.

Period of Performance:

DOTS site assessment initiated on February 5th 2018 and completed on February 9th 2018. The DOTS report and briefing will be delivered June of 2018 to the Portland District.

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

The overview of impacts and mitigation tactics outlined in the DOTS report and briefing, provided to Portland District, will provide methodology capable of reducing sediment delivery to the Lower Columbia River. This reduction in sediment load above USACE infrastructure will aid in prevention of emergency dredging and interruptions to river commerce.

Deliverable:

A DOTS report as well as a formal briefing to Portland District management will be completed in June of 2018. Mitigation tactics to include gaging, engineering with nature practices, and data collection recommendations should provide management practices and minimize the long term impacts of Eagle Creek Fire to the Lower Columbia River and USACE infrastructure.



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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