

OVER THE WATER DRILLING

OVER THE WATER DRILLING FOR ENVIRONMENTAL INVESTIGATION

Drilling on a barge comes with unique challenges and safety hazards. It takes experience to execute investigations over water safely and efficiently. Based on a superior safety performance record and experience, Cascade was hired to investigate the extent of non-aqueous phase liquid (NAPL) contamination prior to dredging, in the San Francisco Marina

CLIENT: TWS / Haley & Aldrich

PROJECT: San Francisco Marina

LOCATION: San Francisco, CA

TECHNOLOGY: Sonic

SERVICE: Environmental sampling

PROJECT OVERVIEW

Cascade craned a sonic rig onto a barge at Mare Island before pushing it to the San Francisco Marina, an eight-hour trip.

Sonic technology was selected for its ability to collect continuous core samples, along for its superior performance in heaving sand conditions.

Approximately twenty boreholes were drilled between 30-50 feet into rip rap, and primarily bay mud. The sonic rig drilled through a moon hole on the barge before taking geotechnical samples, along with a continuous sonic core to total depth. As each hole was completed, a tug boat was called in to move to the next location.

RESULTS

Despite multiple daily tidal swings, along with a narrow area to work in and the sensitive marina environment, the project was completed on budget and without incident.

