

W00651

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Ocean Service

DESCRIPTIVE REPORT

Type of Survey: Basic Hydrographic Survey

Registry Number: W00651

LOCALITY

State(s): California

General Locality: Seal Beach

Sub-locality: Anaheim Bay Harbor

2022

CHIEF OF PARTY
Gregory Smith

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

W00651

INSTRUCTIONS: The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

State(s): **California**

General Locality: **Seal Beach**

Sub-Locality: **Anaheim Bay Harbor**

Scale: **10000**

Dates of Survey: **07/19/2022 to 07/20/2022**

Instructions Dated: **07/19/2022**

Project Number: **ESD-PHB-22**

Field Unit: **US Navy**

Chief of Party: **Gregory Smith**

Soundings by: **R2Sonic 2024 (MBES)**

Imagery by: **N/A**

Verification by: **Pacific Hydrographic Branch**

Soundings Acquired in: **meters at Mean Lower Low Water**

Remarks:

Any revisions to the Descriptive Report (DR) applied during office processing are shown in red italic text. The DR is maintained as a field unit product, therefore all information and recommendations within this report are considered preliminary unless otherwise noted. The final disposition of survey data is represented in the NOAA nautical chart products. All pertinent records for this survey are archived at the National Centers for Environmental Information (NCEI) and can be retrieved via <https://www.ncei.noaa.gov/>. Products created during office processing were generated in NAD83 UTM 11N, MLLW. All references to other horizontal or vertical datums in this report are applicable to the processed hydrographic data provided by the field unit.

DESCRIPTIVE REPORT MEMO

August 31, 2022

MEMORANDUM FOR: Pacific Hydrographic Branch

FROM: Report prepared by PHB on behalf of field unit
Gregg Smith
Public Affairs Officer, Naval Weapons Station Seal Beach

SUBJECT: Submission of Survey W00651

In December 2019 construction began on a Navy project to build a replacement ammunition pier, associated waterfront facilities, causeway and public boating channel inside Anaheim Bay. The project is scheduled to take at least five years to complete. These include a new inner breakwater as well as a new large pier NE of the new breakwater. The pier is already well underway, and the breakwater is slowly being laid but has not yet broached the surface.

The new inner breakwater construction is scheduled to be completed by the winter 2023 and the new pier construction will be completed by the end of 2024.

An xyz file was created and provided by the data provider.

The vertical datum for this project is Mean Lower Low Water. The horizontal datum for this project is North American Datum of 1983 (NAD 83). The projection used for this project is Universal Transverse Mercator (UTM) Zone 11.

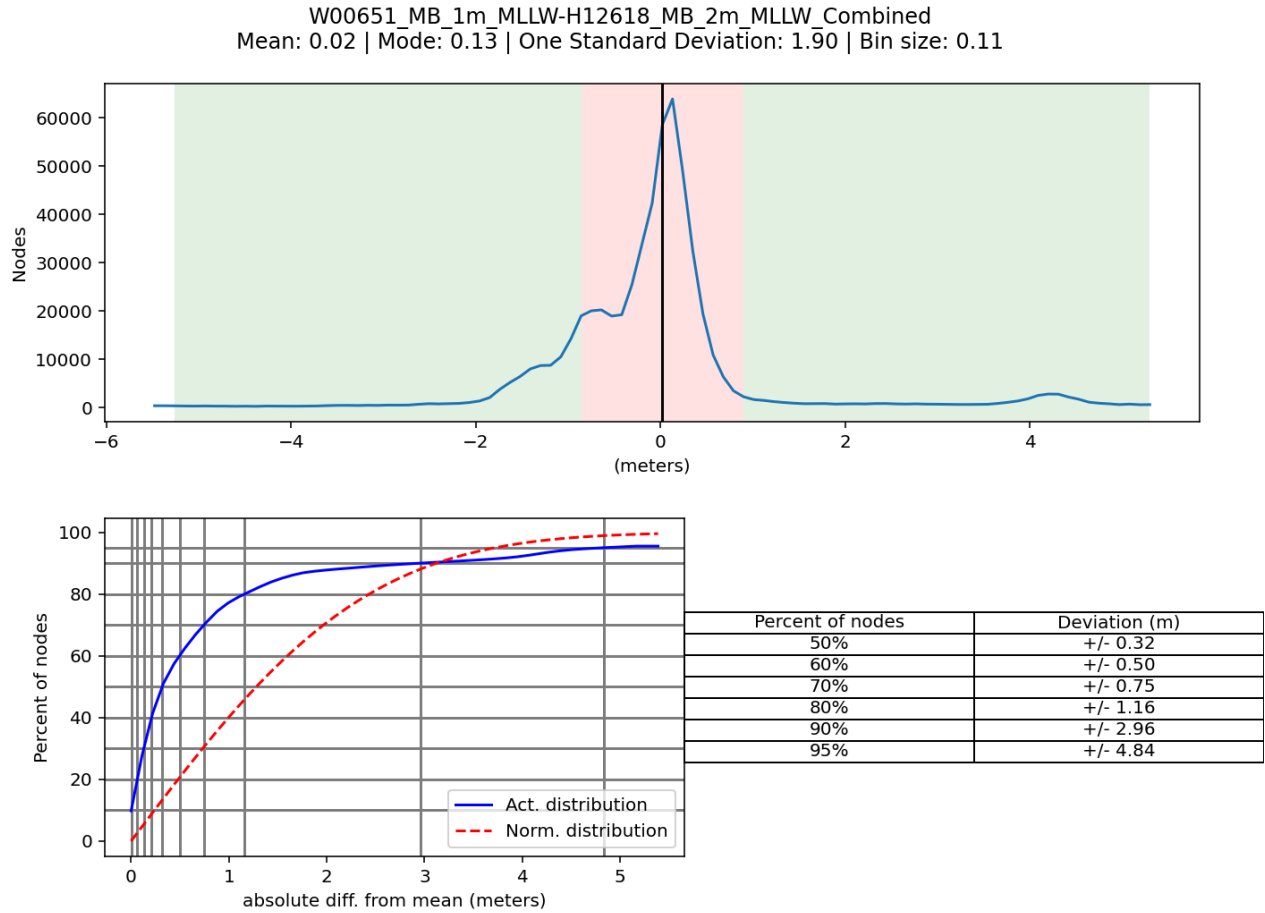
The data reduction method was not reported by the reviewer. Data was provided at MLLW.

Data was provided in an xyz format in California State Plane Zone 6 in feet at MLLW. The XYZ dataset was horizontally transformed horizontally from California State Plane Zone 6 to NAD83 Zone 11N and converted from feet into meters using NOAA's VDatum Tool v4.4.2. The transformed dataset was imported into CARIS BDB 5.5 both as a point cloud and a 1-meter surface.

An obstruction was submitted to MCD on 8/31/2022.

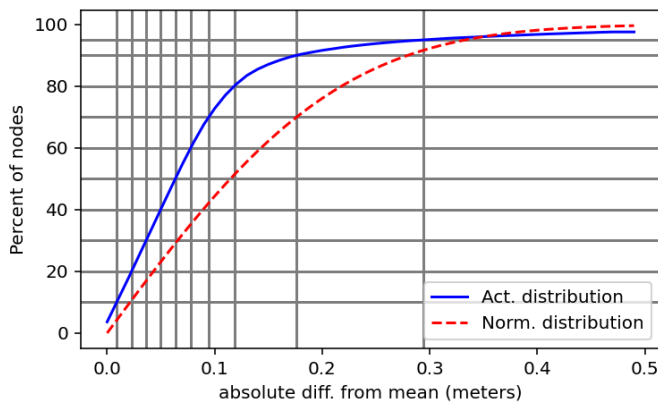
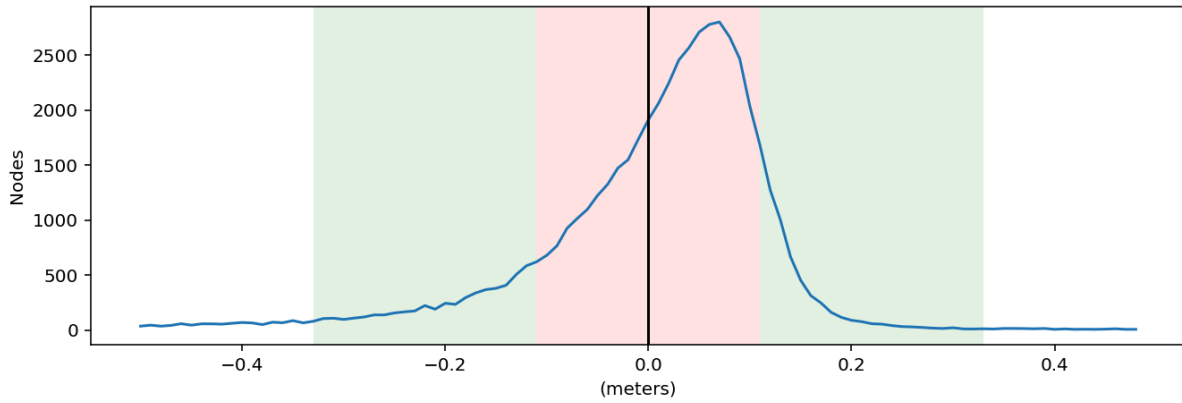
Naval Weapons Station Seal Beach acquired the data outlined in this report. Additional documentation from the data provider may be attached to this report.

Data was compared to contemporary surveys in the area and found very good agreement between the data sets. Survey H12618 was collected in 2018 and W00600 was collected in 2021. Differences seen between H12618 are generally attributed to the new shoreline construction seen in the area.



Surface comparison between H12618 (2013) and W00651.

W00651_MB_1m_MLLW-W00600_MB_2m_MLLW_1of1
 Mean: -0.00 | Mode: 0.07 | One Standard Deviation: 0.17 | Bin size: 0.01



Percent of nodes	Deviation (m)
50%	+/- 0.06
60%	+/- 0.08
70%	+/- 0.09
80%	+/- 0.12
90%	+/- 0.18
95%	+/- 0.29

Surface comparison between W00600 (2021) and W00651.

This survey does meet charting specifications and is adequate to supersede prior data.