

**REVIEW OF NAVAL BASE SAN DIEGO  
AB2588 HEALTH RISK ASSESSMENT (HRA)**

January 9, 2025

Emissions Inventory Facility ID: 4845

Toxics Emissions Inventory Year: 2021

Review Conducted by: Peter Ossowski, SDAPCD

As required by the California Health and Safety (H&S) code, section 44360, the San Diego County Air Pollution Control District (SDAPCD) requested a Health Risk Assessment (HRA) from the US Navy on July 6, 2023, for Naval Base San Diego (NBSD) located at the intersection of S 32<sup>nd</sup> Street and Harbor Drive in San Diego based on emissions that occurred in calendar year 2021. NBSD submitted an HRA to SDAPCD on January 3, 2024. SDAPCD provided comments on the HRA along with comments provided from the Office of Environmental Health Hazard Assessment (OEHHA) to NBSD on August 27, 2024. NBSD submitted revised HRAs to the District on October 28, 2024 (Revised HRA). SDAPCD responded and provided comments to the US Navy on December 3, 2024. SDAPCD originally approved the HRA in an analysis report dated January 2, 2024. However, based on further communications with NBSD personnel, it was determined that the analysis contained some minor typographical errors which have been corrected in this amended analysis report. All the revisions are highlighted in yellow and underlined.

The following are the results of the Revised HRA.

**Summary of Revised Risk Assessment Results:**

Point of Maximum Impact (PMI) Cancer Risk	13.8 in a million
Maximum Exposed Individual Resident (MEIR) Cancer Risk	4.62 in a million
Maximum Exposed Individual Worker (MEIW) Cancer Risk	<u>3.48</u> in a million
Chronic Non-Cancer Health Hazard Index (PMI)	3.44E-02
Chronic Non-Cancer Health Hazard Index (MEIR)	6.10E-03
Chronic Non-Cancer Health Hazard Index (MEIW)	8.54E-02
8-hour Chronic Non-Cancer Health Hazard Index (MEIW)	1.46E-02
Acute Non-Cancer Health Hazard Index (PMI)	9.46
Acute Non-Cancer Health Hazard Index (MEIR)	2.94
Acute Non-Cancer Health Hazard Index (MEIW)	7.13
Population Excess Cancer Burden	0.36
Sub-Chronic Lead Exposure Risk	<0.12 µg/m <sup>3</sup>

**REVIEW OF NAVAL BASE SAN DIEGO  
AB2588 HEALTH RISK ASSESSMENT (HRA)**

The facility's sources include:

- Abrasive Blasting
- Welding
- Engines
- Coating Operations
- Gasoline Dispensing Facilities
- Natural Gas Boilers

**Summary of Health Impacts by Pollutant:**

Acute risk at the MEIR is mainly due to Pier 13 Operations (93%).

Acute risk at the MEIW is mainly due to Pier 13 Operation (98%).

Acute risk at the MEIR is mainly due to nickel (99.7%) and benzene (0.3%).

Acute risk at the MEIW is mainly due to nickel (100%).

The Revised HRA concludes that residential and worker acute risk exceeds the significant risk thresholds specified in District Rule 1210.

**Location of Receptors at Maximum Exposure Points:**

<b>Universal Transverse Mercator (UTM)</b>	<b>X (m)</b>	<b>Y (m)</b>
Cancer Risk at the (PMI)	488225.20	3616684.48
Cancer Risk at the (MEIR)	489466.66	3614491.81
Cancer Risk at (MEIW)	489066.66	3614441.81
Chronic Non-Cancer Health Hazard Index (PMI)	488227.78	3616727.26
Chronic Non-Cancer Health Hazard Index (MEIR)	489466.66	3614491.81
Chronic Non-Cancer Health Hazard Index (MEIW)	489116.66	3613841.81
8-hour Chronic Non-Cancer Health Hazard Index (MEIW)	489116.66	3613841.81
Acute Non-Cancer Health Hazard Index (PMI)	488403.82	3613817.17
Acute Non-Cancer Health Hazard Index (MEIR)	489516.66	3614441.81
Acute Non-Cancer Health Hazard Index (MEIW)	488966.66	3613541.81

UTM was used for the geographic coordinate system with the North American Datum of 1983 (NAD83).

**REVIEW OF NAVAL BASE SAN DIEGO  
AB2588 HEALTH RISK ASSESSMENT (HRA)**

**Notification-Triggering Isopleth**

Acute HHI of 1 Isopleth

