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- Removed 8,200 cubic yards of contaminated soil and sediment from the Metal Slag Area in 2005-2006
- From 2010-2012, removed another 40,000 cubic yards of contaminated soil that was remaining after the initial PCB removal action in 2005
- In 2012, removed 3,800 cubic yards of soil and screened it for radiological contamination
- An additional 39,000 cubic yards of impacted soil was removed from hot spot excavations and an underground barrier made up of wet clay mixed with soil and cement in large trenches (known as a slurry wall) was installed along the shoreline in 2016-2017 to limit the flow of groundwater between areas

What about gases from the landfill?

The primary gases from landfills (including Hunters' Point landfill) are methane and carbon dioxide as a result of rotting material. Neither of these gases are toxic, however methane must be controlled because it is flammable. In addition, there are small amounts of other gases present, called non-methane organic compounds.

The Navy installed an engineered cap over the landfill in 2000 to trap the gases, which are then sent through a carbon filter that removes the non-methane organic compounds before venting them to the atmosphere. Navy tests have shown the gases do not pose a risk to the community. The Navy is planning for the installation of a new multi-layer cap and an upgraded methane collection system in late 2018.

What about earthquakes and liquefaction?

The Navy has done geotechnical testing of the landfill area and found a low likelihood for major soil movement, called liquefaction. Liquefaction and earthquake-related effects are well understood in California. CERCLA, the federal law regulating cleanup at HPNS, requires an evaluation of nine criteria, including short and long-term protectiveness for any remedy proposed. The remedy chosen has been designed to be protective during and after an earthquake. Technologies used

to implement the landfill remedy (currently under construction) were designed and will be constructed with this in mind.

Can contaminants move into the San Francisco Bay?

The Navy has completed a large amount of sampling in the San Francisco Bay and did find PCBs at low levels in sediment near the landfill and the mouth of Yosemite Slough, a result of historical use by private companies located or operated near Yosemite Slough and the PCB Hotspot Area along the shoreline of the landfill. The Navy has removed the PCB Hotspot Area and is currently evaluating methods to dredge or clean contaminated sediments near Yosemite Slough and the landfill.

The Navy has thoroughly sampled groundwater flowing underneath the landfill and has not found any groundwater plumes with contamination migrating towards the San Francisco Bay. Installation of slurry and sheet-pile walls, as well as the construction of rock walls (revetments) built along Parcel E-2's shoreline will prevent human exposure to contaminated soil or sediment and prevent erosion of the soil cover, protective liner, and underground barriers into the San Francisco Bay.

What if there is a rise in sea level?

All Navy remedies at HPNS, including those proposed for the landfill, are designed to withstand potential sea level rise. The landfill remedy revetments and elevations will account for significant sea level rise.

Will the landfill be safe for future use?

The remedy at the landfill includes an engineered cap, soil cover, and a protective rock wall (revetment) along the shoreline. The remedy, as summarized in the Navy's Proposed Plan (available on the Navy's website at www.bracpmo.navy.mil), has removed access to any possible contamination left beneath the ground. This action protects humans and the environment for future alternative use of the landfill site. The current projected future use of the landfill and immediately surrounding area is open space, including a park and Bay Trail.

Where can I get more information about the landfill and Parcel E-2 cleanup at HPNS?

There are several ways to learn more about the Navy's cleanup at HPNS.

Review an HPNS Report

City of San Francisco Main Library

100 Larkin Street, 5th Floor, Gov't Information Center
San Francisco, CA 94102 (415) 557-4400

Hunters Point Naval Shipyard Site Trailer

690 Hudson Avenue, San Francisco, CA 94124

Navy Website: www.bracpmo.navy.mil

There is a link to the online HPNS Administrative Record on the Documents Page of the Navy's HPNS web pages

Contact HPNS Program Management

Derek Robinson, BRAC Environmental Coordinator

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33000 Nixie Way, Bldg. 50, 2nd Deck, San Diego CA 92147
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To be added to the HPNS mailing list or for additional information, email info@sfhps.com or call (415) 295-4742

Contact the Radiological Health and Safety Community Technical Advisor with Questions

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Dr. Higley is the Head of the School of Nuclear Science and Engineering at Oregon State University and is a Certified Health Physicist with a Ph.D. and M.S. in Radiological Health Sciences. She is available to answer community member questions by phone or email.

有关海军在猎人角海军造船厂的清理活动方案的更多信息，
请拨打 (415) 295-4742 并留言。

Para más información sobre el programa de limpieza de la Marina en Hunters Point Naval Shipyard, favor de dejar un mensaje en (415) 295-4742.

Para sa higit pang impormasyon sa programa sa paglilinis ng Navy sa Hunters Point Naval Shipyard, mangyaring mag-iwan ng mensahe sa (415) 295-4742.

Mo nisi faamatalaga e uiga i le polokalame faamama a le Navy i Hunter's Point, faamolemole tuu mai se feau i le telefoni (415) 295-4742.