



# FACT SHEET

## Hunters Point Naval Shipyard

### Radiological Data Review Update #2

September 2017

This is the second in a series of fact sheets and other ongoing communications about the radiological data review being conducted at Hunters Point Naval Shipyard (HPNS). The previous fact sheet (dated February 2017) on the Navy's radiological data review may be found on the HPNS pages of the Navy's website at [www.bracpmo.navy.mil](http://www.bracpmo.navy.mil).

#### Radiological Data Review Background

In 2012, as a part of its regular review of contractor data, the Navy discovered a discrepancy in radiological sampling by one contractor, Tetra Tech EC (TtEC). Sampling data in question was identified and initial corrective actions were taken by TtEC. It was determined that sample data had been falsified. In 2016, a former TtEC contract worker made additional claims about the work done before 2012. Additional allegations were made in 2017.

#### Thorough Data Evaluation Underway

In November 2016, the Navy hired an independent team of experts (review team) to further review and evaluate the reliability of the radiological data collected by TtEC. As part of the evaluation, the review team has developed a database of soil data and is analyzing radiological sampling, surveys, and building scan results.

#### What are the data evaluation objectives?

1. Evaluate radiological data collected by TtEC
2. Identify data that may have been falsified or improperly collected

#### How will the results be used?

1. Determine additional actions needed to confirm or replace TtEC radiological sample results
2. Support decisions concerning the final evaluation for radiological areas at HPNS

#### Extent of Data Review and Analysis

The data evaluation includes radiological samples taken by TtEC beginning in 2006 from Parcels B, C, D-2, E, G, and the utility corridors (UC-1, UC-2 and UC-3).

#### Detailed Review to Ensure Accurate Results

The review team is using multiple methods to cross-check information and look for inconsistencies that might indicate questionable data. The size of this detailed evaluation is very large due to the number of sites and samples.

#### How has the data been reviewed?

- Created a complete list of all radiological soil samples for data evaluation and comparison to TtEC reports
- Established a list of radioactive elements to help determine data validity
- Identified areas of potential radiological impact and where previous radiological remediation activities took place
- Created a list of sites to evaluate based on allegations of data manipulation and falsification by TtEC
- Statistically analyzed previously collected data to identify irregularities
- Generated summaries with graphs and charts to better understand and compare data results

#### Snapshot of Extensive Analysis

##### Radiological Soil Analysis

- Approximately 300,000 cubic yards of soil
- Over 50,000 soil samples
- More than 900,000 analytical results
- Over 30 former building sites
- Approximately 28 miles of trench lines

##### Radiological Scans

- More than 20 structures (buildings) on approximately 23 acres of land



## Next Steps

### Data Evaluation

Over the coming months, the review team will continue their evaluation. Data from each parcel and sampling unit will go through the same process of evaluation to determine where and how further sampling should be done. Regulatory agencies are part of the re-evaluation team, and have reviewed and accepted the data re-evaluation methods.

### Confirmation Report to Document Results

Data evaluation and potential confirmation sampling results will be documented in a detailed confirmation report when the data evaluation is complete and has been reviewed and approved by regulatory agencies. The confirmation report will be available to the public through the resources and locations listed below.

### Independent Verification and Oversight

The U.S. EPA is conducting independent review of the HPNS radiological findings to validate the Navy's results. In addition, Oak Ridge Associated Universities (ORAU)

and Argonne National Lab are working with Oregon State University's (OSU) Radioecology Research Group and provide independent third party review of data.

### Protecting the Public

Throughout the environmental cleanup process, the Navy follows an established set of procedures to protect the public. If a threat to the public exists, immediate action is taken. The Navy and regulatory agencies have sufficient data for HPNS to determine that there is no immediate threat to public safety, allowing the Navy the time to conduct this comprehensive data review.

The Navy's priority is community safety during all investigation and cleanup activities at HPNS. Comprehensive safety procedures, including dust control, air monitoring, and management of soil samples, ensure the safety of cleanup workers, shipyard tenants, and nearby residents.

The Navy's goal for this process is to verify that the parcels are free of radiological contamination and safe for planned reuse before transferring the property to the City of San Francisco.

## How to Get More Information on HPNS Radiological Data Review

The Navy will continue to update the community on radiological data review results and achievements in upcoming program updates, fact sheets, website updates, community meetings, and news releases.

Previously published reports and documentation may be found on the U.S. EPA's website at [www.epa.gov](http://www.epa.gov), on DTSC's website at [www.envirostor.dtsc.ca.gov](http://www.envirostor.dtsc.ca.gov), and on the HPNS Radiological Cleanup Program pages of the Navy's website at [www.bracpmo.navy.mil](http://www.bracpmo.navy.mil).

### Contact HPNS Program Management

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To be added to the HPNS mailing list or for additional information, email [info@sfhpns.com](mailto:info@sfhpns.com) or call (415) 295-4742.

### Review HPNS Reports

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

**The Shipyard Site Trailer**  
690 Hudson Avenue, San Francisco, CA 94124  
**Navy Website:** [www.bracpmo.navy.mil](http://www.bracpmo.navy.mil)

## Get Answers on Radiological Health and Safety from a Technical Expert

**Dr. Kathryn Higley**  
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*Dr. Higley is highly qualified to serve as a resource to the public on HPNS radiological issues. She is the Head of the School of Nuclear Science and Engineering at Oregon State University and a Certified Health Physicist with degrees in Radiological Health Sciences.*

*Dr. Higley is available to answer community member questions by phone or email, and in person whenever possible.*