

NAVAL STATION TREASURE ISLAND
ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING
Tuesday, 16 October 2012
7:00 PM.
Casa de la Vista Building 271
Treasure Island
MEETING NO. 162

- 7:00 – 7:05 **Welcome Remarks and Introductions**
Lead: James Sullivan, Navy Co-Chair
- 7:05 – 7:15 **Public Comment and Announcements**
Lead: James Sullivan, Navy Co-Chair
- 7:15 – 7:45 **Treasure Island Radiological Program Update**
Lead: James Sullivan, Navy Co-Chair
- 7:45 – 8:05 **Field Activities and Access Update (Sites 12, 31, 33 and Building 233)**
Lead: Shaw Environmental
- 8:05 – 8:15 **Upcoming Documents and Field Schedule**
Lead: Jessica O’Sullivan, Tetra Tech EMI
- 8:15 – 8:20 **Co-Chair Announcements**
Lead: Alice Pilram, Community Co-Chair
- 8:20 – 8:25 **RAB Meeting Minutes**
Lead: James Sullivan, Navy Co-Chair
- 8:25 – 8:30 **BRAC Cleanup Team Update**
Lead: Navy, DTSC and RWQCB
- 8:30 – 8:35 **Other Public Comment and Announcements**
Lead: James Sullivan, Navy Co-Chair
- 8:35 – 8:40 **Future Meeting Agenda Items**
Lead: Navy and Community Co-Chairs
- 8:40 – 8:45 **Closing Remarks/End of Meeting**
Break/Informal Discussion for 30 minutes after the meeting
This is an opportunity to informally discuss issues

Next Regular Meeting: No November 2012 Meeting

7:00 pm Tuesday, 18 December 2012 (Tentative)
Casa de la Vista, Treasure Island

Next Treasure Island Citizen's Advisory Board (CAB) Meeting: See the web site for latest dates and times for future meetings: <http://www.sfgov.org/treasureisland>

Next Interim RAB Community Member Conference Call:

7:00 pm. Tuesday, 27 November 2012

Call-In Number: 1- 866-822-0121

Participant Code: 1122026

Navy BRAC Web Site: <http://www.bracpmo.navy.mil> (click on map for Treasure Island)

Navy San Diego Office Address:

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BASE REALIGNMENT AND CLOSURE
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1455 FRAZEE ROAD, SUITE 900
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BRAC Program Management Office



Treasure Island Radiological Program Update

Former Naval Station Treasure Island

Restoration Advisory Board Meeting
October 16, 2012

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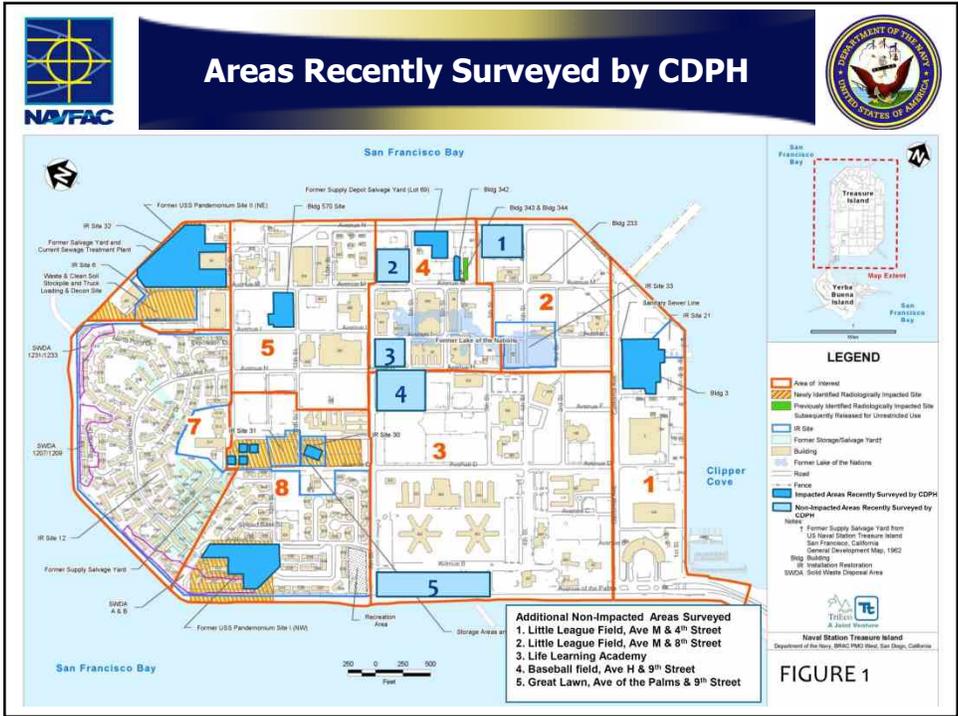


Topics to be Covered



- Areas of Treasure Island Recently Surveyed by the California Department of Public Health (CDPH)
- Status of the Historical Radiological Assessment Technical Memorandum (HRASTM)
- Current and Upcoming Navy Field Activities
- Points of Contact

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- ### Areas Recently Surveyed by CDPH (cont.)
- August 27, 2012 (Letter Report dated September 11, 2012)
 - Building 570 Contractor Area
 - August 28, 2012 (Letter Report dated September 11, 2012)
 - Treasure Island Childcare Center (850 Avenue D)
 - Boys and Girls Club (Buildings 33A and 33B)
 - Commercial Tenant (Building 33C)
 - Commercial Tenant (Building 33D)
 - TIHDI Trailer (9th and D Street)
 - Letter Report dated September 17, 2012
 - USS Pandemonium Site 1 (NW) (Site 12)
 - Former Salvage Yard and Wastewater Treatment Plant, and SFPUC Corporation Yard (Lot 69)
 - Building 342 (Former RADIAC Training)
 - Building 3
 - Site 31
 - The Life Learning Center Garden Area (9th and Avenue H)



Areas Recently Surveyed by CDPH (cont.)



- Letter Report dated September 24, 2012
 - Backyards in Pandemonium 1 Area
 - 1312-A through F backyards Gateview Avenue
 - 1313-A through F backyards Gateview Avenue
 - 1314-A through D backyards Gateview Avenue
 - 1315-A through F backyards Gateview Avenue
 - 1316-A through F backyards Gateview Avenue
 - 1318-A through F backyards Gateview Avenue
 - Building 3 Interior
- Letter Report dated October 5, 2012
 - Ball Field, Avenue N and 5th Streets
 - Ball Field, Avenue M and 8th Streets
 - Ball Field, Avenue H and 9th Streets
 - Great Lawn, Avenue of the Palms and 9th Street
 - Wastewater Treatment Plant interior areas including buildings

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Status of the HRA Supplemental Technical Memorandum



- Draft HRASTM submitted to Agencies and RAB on August 6, 2012
- Comment period extended to October 5, 2012
- Comments received
- Comments will be addressed in a Response to Comments (RTCs) which will be included with the Final HRASTM
- Final HRASTM document planned 12/26/2012

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Current and Upcoming Navy Field Activities



- Current Activities
 - Site 12 Westside Drive Demolition of 2 Buildings
 - Site 31 Former South Storage Yard Remedial Action
 - Building 233 Area
- Upcoming Activities
 - Site 12 Westside Drive Demolition of 2 Additional Buildings and Investigation of Fenced Anomalies at the Berm
 - Site 12 Surveys outside the SWDAs
 - Survey of Pandemonium 1 and 2 Areas
 - Survey of Building 3 and Associated Sanitary Sewer
 - Site 6 Survey of Areas Associated with Soil Movement

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Points of Contact



Navy

Mr. James Sullivan
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San Francisco Bay RWQCB

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DTSC

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CA Department of Toxic Substances Control
700 Heinz Avenue, Suite 200
Berkeley, CA 94710
Phone: (510) 540-3840
Email: remedios.sunga@dtsc.ca.gov
Hotline: 1-866-284-0721

EPA

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U.S. Environmental Protection Agency
Region IX
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San Francisco, CA, 94105
Phone: (415) 972-3246
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CDPH

Mr. Stephen Woods
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RADIOLOGICAL CONTROLS

FACT SHEET

The Navy and State of California have taken steps to ensure that radiological controls are in place at Naval Station Treasure Island to comply with Nuclear Regulatory Commission regulations and to ensure the safety and health of workers, local residents, and the general public.



Thermoluminescent Dosimetry (TLD) is worn by all workers. TLDs record radiation dose received within a radiologically controlled area (RCA). Additionally, Personal Protective Equipment (PPE), e.g., blue Tyvek suit, is worn when working in an RCA. TLD allows the Navy to track radiation exposure trends to determine if additional controls are warranted.

Radiological Controlled Areas (RCA) are fenced and posted with an access point(s) that can be secured for either personnel and or for vehicles/trucks. These access points will be manned to ensure only authorized personnel enter the site and comply with all Personal Protective Equipment requirements. They also ensure only authorized, clean vehicles enter and leave the site. Radiation surveys of all personnel and vehicles leaving the site are performed to ensure that contamination is not spread outside of the RCA.



Dust Control Measures (DCMs) are performed at all excavation sites and during transportation of soil. DCMs are critical to limit inadvertent movement of contaminated materials, soils or dust within the work area. Measures include spraying of water during excavations or loading of materials into bins or trucks; wetting areas where heavy equipment is moving during excavations or surveying; and wetting and covering of areas where materials are stockpiled. Mesh screening may also be fitted to temporary fencing as an additional dust control measure.

Decontamination areas are located near the exits of a RCA. The need for and degree of decontamination is based on the characteristics of the material within the RCA and the potential for transporting chemicals of concern outside the project area. In general, equipment decontamination areas will consist of an impermeable surface (e.g., plastic sheeting) to catch material removed from the equipment for collection and disposal. Personal Protective Equipment is removed and the workers are scanned prior to leaving an RCA to ensure any contamination does not leave the area.





RCA Barrier Dose Monitoring is done at all RCAs. The areas immediately outside of the fence are surveyed using a dose rate meter. Surveys are performed weekly and when radiological conditions change within a RCA. All dose levels should be less than 10 uR/hr. This equates to a member of the general public receiving the NRC dose limit if they stood at the fence 24 hours a day for 365 days. RCA Barrier Dose Monitoring ensures that residents and members of the general public do not receive any dose above NRC limits during radiological field operations.

Radiation Work Permits are prepared by the contractor senior technicians and approved by the Radiation Safety Officer. The permit shall describe current site conditions and requirements for PPE. The permit includes results of documentation of barrier dose monitoring, highest contamination levels within the RCA, and any special field conditions. The permit is posted at the access point to the RCA. Should any of the site conditions change, the RWP is to be modified immediately. All personnel entering the RCA sign that they are aware of the site conditions as described in the RWP.



Excavated waste soil may be directly loaded at the excavation site into end-dumps, temporarily stockpiled, or placed in bins for offsite transportation and disposal. Materials may also be loaded into local-haul dump truck and stockpiled waste soil/debris staging areas within the site. All **stockpiled soil** is protected from rainfall with plastic sheeting secured against wind. Rail ties or hay bales are placed around the perimeter of the stock piles as berms to prevent transport of materials by stormwater. Waste soil stockpiles are covered with 10-mil plastic to protect against airborne dust generation.

Transportation of waste soil is provided by properly licensed/certified transporters. During excavation activities, waste soil will either be directly loaded on to local haul trucks for transportation to a waste soil/debris staging area or directly loaded into end-dumps for offsite transportation and disposal. Prior to leaving TI, each loaded truck is decontaminated, tarped and weighed. Class I hazardous waste is manifested with a hazardous waste manifest.



All **Low-Level Radioactive Waste (LLRW)** is placed in Roll-off bins with locking lids or sealed 55-gallon drums. Specially shielded B-25 boxes (measure 6'L x 4'H x 4'D) are loaded with higher level radioactive waste when found. All is still considered LLRW. Boxes can be held for required dewatering and characterization prior to off-site transportation and disposal. There has been no High Level Radioactive Waste found on TI.

RADIOACTIVE COMMODITIES

TREASURE ISLAND

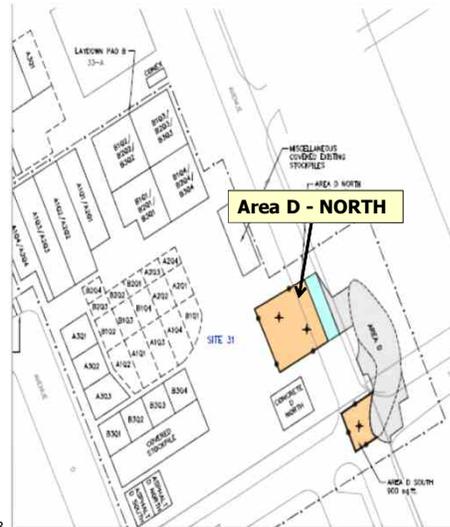




Site 31 – Area D-North



- Excavation of Area D-North was performed between July 24 and August 2. Area D-North was excavated to its planned depth of 6 feet bgs.
- A total of ~700 cubic yards of soil was excavated for radiological characterization. Soil was placed on the laydown pad, GWS performed and all radiological static measurements were below the investigation level.
- 62 confirmatory soil samples were collected for radiological analysis. ²²⁶Ra results all below release criterion. ¹³⁷Cs and ⁹⁰Sr (20%) 'non-detect'.



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Site 31



- Remaining fieldwork includes:
 - Transportation and disposal
 - Backfilling
 - Site restoration
- The Draft Remedial Action Completion Report (RACR) prepared summarizing results of remediation effort.
- Following approval of the RACR, the Final Status Survey will be performed and results documented.



Dust suppression is used on the general area. The storage stockpiles are labeled for identification.

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Site 31



Figure showing the soil storage stockpiles at Site 31. Soil is stored in the stockpiles pending approval of RACR and disposal. All stockpiles are covered and maintained.

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Site 33



- Remaining fieldwork at Site 33 includes the following:
 - Transportation and disposal of soil and asphalt
 - Backfilling open excavations
 - Final site radiological survey – as left condition
 - Incidental site restoration
- The Draft Remedial Action Completion Report (RACR) summarizes results of the remediation of lead, arsenic, dioxin and radium-226.

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Site 33 – Sampling Results



Table 1
Installation Restoration Site 33 Chemical Confirmation Analytical Results

Excavation Area	Sample ID		Date Collected	Lead (Remediation Goal 400 mg/kg)	Arsenic (mg/kg)	Dioxin (ng/kg)
	ID	Step Out Sample ID				
AREA 1						
AREA 1	A1-EF-01		5/3/2012	1410		
AREA 1 STEP OUT		A1-EF-05 Bottom step down EF-01	5/17/2012	8.8 J	1.4	<1.0
AREA 1 STEP OUT		A1-SW-06 Side wall step out EF-01	5/17/2012	3.0 J	1.9	
AREA 1 STEP OUT		A1-SW-07 Side wall step out EF-01	5/17/2012	8.7 J	1.3	
AREA 1 STEP OUT		A1-SW-08 Side wall step out EF-01	5/17/2012	53.6 J	3.6	
AREA 1 STEP OUT		A1-SW-09 Side wall step out EF-01	5/17/2012	93.2 J	2.4	
AREA 1	A1-SW-02		5/3/2012	15.4 J	3.3	
AREA 1	A1-SW-03		5/3/2012	182	5.5	
AREA 1	A1-SW-04		5/3/2012	252	4.6	
AREA 1	A1-DUP-001 (SW-02)		5/3/2012	133	3.0	
AREA 1 STEP OUT	A1-DUP-003 (EF-05)		5/17/2012	13.4 J		
AREA 2						
AREA 2	A2-EF-01 (Bottom)		5/3/2012	55.1	16.3	<1.9
AREA 2	A2-SW-02		5/3/2012	1.9 J	3.2	
AREA 2	A2-SW-03		5/3/2012	115	3.7	
AREA 2	A2-SW-04		5/3/2012	67.2	3.3	
AREA 2	A2-SW-05		5/3/2012	27.7	3.1	
AREA 3						
AREA 3	A3-EF-01 (Bottom)		5/17/2012	102 J	4.7	<1.2
AREA 3	A3-SW-02		5/17/2012	801 J		
AREA 3 STEP OUT		A3-SW-06 Side wall step out SW-02	5/23/2012	888 J		
AREA 3 STEP OUT		A3-SW-07 Side wall step out SW-02	5/23/2012	4.1 J	1.9	
AREA 3 STEP OUT		A3-SW-08 Side wall step out SW-02	5/23/2012	40.6 J	2.9	
AREA 3 STEP OUT		A3-SW-12 Side wall step out SW-06	5/31/2012	171 J	4.2	
AREA 3	A3-SW-03		5/17/2012	51.1 J	1.5	
AREA 3	A3-SW-04		5/17/2012	834 J		
AREA 3 STEP OUT		A3-SW-09 Side wall step out SW-04	5/23/2012	217 J	9.8	

Chemical confirmation analytical results for Site 33.



Site 33 – Sampling Results



Table 1 (continued)
Installation Restoration Site 33 Chemical Confirmation Analytical Results

Excavation Area	Sample ID		Date Collected	Lead (Remediation Goal 400 mg/kg)	Arsenic (mg/kg)	Dioxin (ng/kg)
	ID	Step Out Sample ID				
AREA 3 STEP OUT		A3-SW-10 Side wall step out SW-04	5/23/2012	673 J		
AREA 3 STEP OUT		A3-SW-11 Side wall step out SW-04	5/23/2012	213 J	3.4	
AREA 3 STEP OUT		A3-SW-13 Side wall step out SW-10	5/31/2012	31.4 J	5.4	
AREA 3	A3-SW-05		5/17/2012	62 J	3.0	
AREA 4						
AREA 4	A4-EF-01 (Bottom)		5/3/2012	73.8	3.2	<1.3
AREA 4	A4-SW-02		5/3/2012	12.4 J	2.5	
AREA 4	A4-SW-03		5/3/2012	9.2 J	2.9	
AREA 4	A4-SW-04		5/3/2012	20.1 J	6.2	
AREA 4	A4-SW-05		5/3/2012	9.3 J	2.8	
AREA 5						
AREA 5	A5-EF-01 (Bottom)		5/3/2012	1.6 J	1.7	<1.0
AREA 5	A5-SW-02		5/3/2012	2.5 J	1.7	
AREA 5	A5-SW-03		5/3/2012	3.8 J	1.7	
AREA 5	A5-SW-04		5/3/2012	2.1 J	1.9	
AREA 5	A5-SW-05		5/3/2012	1.7 J	1.3	
AREA 5	A5-DUP-002 (SW-02)		5/3/2012	1.9 J		

Notes:
Bolted cells denotes greater than remediation goal.
DUP denotes duplicate.
EF denotes excavation floor.
J denotes estimated.
mg/kg denotes milligrams per kilogram.
ng/kg denotes nanograms per kilogram.
SW denotes side wall.

Chemical confirmation analytical results for Site 33 (cont'd).



Site 33 - Radiological Data



Excavated Soil Area 1						
GWS Measurements ≥ IL (18,049 cpm) Instrument ID #: 282982	Highest GWS Reading (cpm)	Gamma Static Measurements ≥ IL (17,050 cpm) Instrument ID #: 282982	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result	< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)
0	17,504	1	19,326	5	²²⁶ Ra 0.61 pCi/g ¹³⁷ Cs U ⁹⁰ Sr U	Yes NA NA
Excavation Area 1 – Floor						
GWS Measurements ≥ IL (20,698 cpm) Instrument ID #: 268642	Highest GWS Reading (cpm)	Gamma Static Measurements ≥ IL (19,001 cpm) Instrument ID #: 268642	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result	< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)
3	21,883	3	21,315	11	²²⁶ Ra 0.66 pCi/g ¹³⁷ Cs U ⁹⁰ Sr U	Yes NA NA
Excavation Area 1 – Sidewalls						
Gamma Static Measurements ≥ IL (19,001 cpm) Instrument ID #: 268642	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result		< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)	
1	20,461	15	²²⁶ Ra 0.64 pCi/g ¹³⁷ Cs U ⁹⁰ Sr U		Yes NA NA	

Radiological data for Excavation Area 1 - Site 33.



Site 33 - Radiological Data



Excavated Soil Area 2						
GWS Measurements ≥ IL (18,049 cpm) Instrument ID #: 282982	Highest GWS Reading (cpm)	Gamma Static Measurements ≥ IL (17,050 cpm) Instrument ID #: 282982	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result	< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)
12	19,404	0	16,741	4	²²⁶ Ra 0.66 pCi/g ¹³⁷ Cs U ⁹⁰ Sr U	Yes NA NA
Excavation Area 2 – Floor						
GWS Measurements ≥ IL (20,698 cpm) Instrument ID #: 268642	Highest GWS Reading (cpm)	Gamma Static Measurements ≥ IL (19,001 cpm) Instrument ID #: 268642	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result	< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)
3	30,366	16	31,644	13	²²⁶ Ra 0.98 pCi/g ¹³⁷ Cs U ⁹⁰ Sr U	Yes NA NA
Excavation Area 2 – Sidewalls						
Gamma Static Measurements ≥ IL (19,001 cpm) Instrument ID #: 268642	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result		< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)	
43	30,644	15	²²⁶ Ra 1.01 pCi/g ¹³⁷ Cs U ⁹⁰ Sr U		Yes NA NA	

Radiological data for Excavation Area 2 - Site 33.



Site 33 - Radiological Data



Excavated Soil Area 3						
GWS Measurements ≥ IL (18,049 cpm) Instrument ID #: 282982	Highest GWS Reading (cpm)	Gamma Static Measurements ≥ IL (17,050 cpm) Instrument ID #: 282982	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result	< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)
206	20,520	4	17,338	5	²²⁶ Ra 0.99 pCi/g ¹³⁷ Cs U ⁹⁰ Sr U	Yes NA NA
Excavation Area 3 – Floor						
GWS Measurements ≥ IL (20,698 cpm) Instrument ID #: 268642	Highest GWS Reading (cpm)	Gamma Static Measurements ≥ IL (19,001 cpm) Instrument ID #: 268642	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result	< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)
1063	35,596	16	36,185	19	²²⁶ Ra 0.91 pCi/g ¹³⁷ Cs U ⁹⁰ Sr U	Yes NA NA
Excavation Area 3 – Sidewalls						
Gamma Static Measurements ≥ IL (19,001 cpm) Instrument ID#: 268642	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result	< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)		
96	32,440	18	²²⁶ Ra 1.06 pCi/g ¹³⁷ Cs U ⁹⁰ Sr+ U	Yes NA NA		

Radiological data for Excavation Area 3 - Site 33.



Site 33 - Radiological Data



Excavated Soil Area 4						
GWS Measurements ≥ IL (18,049 cpm) Instrument ID #: 282982	Highest GWS Reading (cpm)	Gamma Static Measurements ≥ IL (19,001 cpm) Instrument ID #: 268642	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result	< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)
1,229	24,221	15	21,346	17	²²⁶ Ra 1.14 pCi/g ¹³⁷ Cs U ⁹⁰ Sr U	Yes NA NA
Excavation Area 4 – Floor						
GWS Measurements ≥ IL (20,698 cpm) Instrument ID #: 268642	Highest GWS Reading (cpm)	Gamma Static Measurements ≥ IL (19,001 cpm) Instrument ID #: 268642	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result	< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)
1,005	41,013	32	43,120	24	²²⁶ Ra 1.39 pCi/g ¹³⁷ Cs U ⁹⁰ Sr U	Yes NA NA
Excavation Area 4 – Sidewalls						
Gamma Static Measurements ≥ IL (19,001 cpm) Instrument ID#: 268642	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result	< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)		
48	37,233	15	²²⁶ Ra 1.00 pCi/g ¹³⁷ Cs U ⁹⁰ Sr+ U	Yes NA NA		

Radiological data for Excavation Area 4 - Site 33.



Site 33 - Radiological Data



Excavated Soil Area 5							
GWS Measurements ≥ IL (18,049 cpm) Instrument ID #: 262982	Highest GWS Reading (cpm)	Gamma Static Measurements ≥ IL (17,050 cpm) Instrument ID #: 268982	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result		< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)
					²²⁶ Ra	¹³⁷ Cs	
0	18,199	0	15,101	4	0.66 pCi/g	U	Yes
					U	U	NA
					U	U	NA
Excavation Area 5 – Floor							
GWS Measurements ≥ IL (20,698 cpm) Instrument ID #: 268642	Highest GWS Reading (cpm)	Gamma Static Measurements ≥ IL (19,001 cpm) Instrument ID #: 268642	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result		< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)
					²²⁶ Ra	¹³⁷ Cs	
83	22,750	11	21,078	20	0.63 pCi/g	U	Yes
					U	U	NA
					U	U	NA
Excavation Area 5 – Sidewalls							
Gamma Static Measurements ≥ IL (19,001 cpm) Instrument ID #: 268642	Highest Gamma Static Reading (cpm)	Soil Samples Analyzed	Highest Soil Sample Result		< Release Criterion (1.69 pCi/g ²²⁶ Ra Soil)		
			²²⁶ Ra	¹³⁷ Cs			
9	20,067	15	0.56 pCi/g	U	Yes		
			U	U	NA		
			U	U	NA		

Radiological data for Excavation Area 5 - Site 33.



Naval Station Treasure Island



Building 233 Site



Building 233 Site



Current field work involves characterization and removal of more than 200 feet of drain line.

- Trenching in 6-inch lifts performed to uncover the drain lines. A gamma survey of each 6-inch lift is performed. If measurements exceed the investigation level, the soil is placed in LLRW bin. If below, soil is sampled for proper waste characterization.
- The pipe is disconnected at the joints located approximately every 3-6 linear feet. Radiological smears are collected at each open end of the pipe segment. The pipe segments are placed in bins for disposal as LLRW. If sediment was found inside the pipe then samples are collected and sent to an off-site laboratory for analysis.
- Gamma scanning and static gamma count rates of the soil in place surrounding the pipe are conducted. If soil count rates exceed the investigation level, soil confirmation samples are collected for analysis.

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Building 233



- Several unexpected subsurface utilities were identified including:
 - Steam
 - Water
 - Electrical
 - Tar-wrapped conduit (use unknown)
 - Steel and Terra Cotta (drain lines)

All drain lines to be characterized and removed from the B233 footprint.

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Building 233

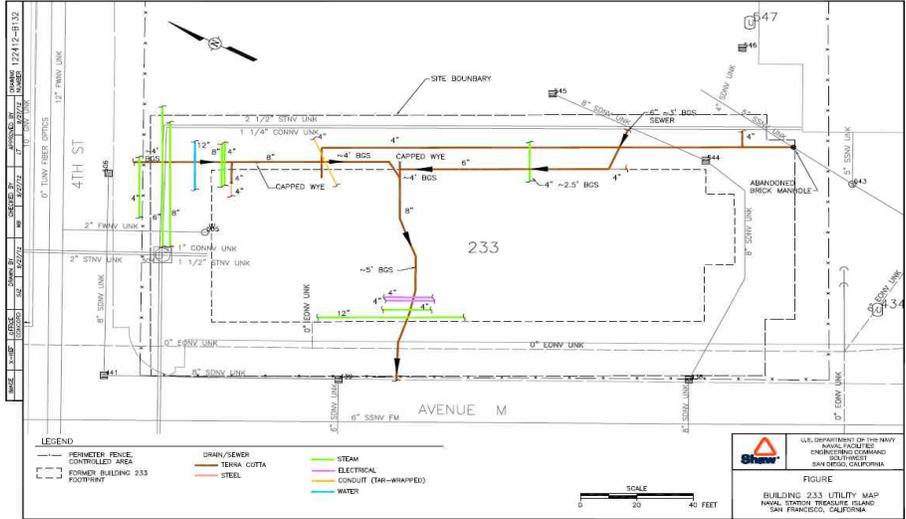


Figure showing utility lines.



Building 233



Dust suppression during trenching activities.



Building 233



GWS of soil layer while trenching down to the terra cotta drain line. Note the white sample jar in the foreground already placed in position for soil sampling.



Building 233



Northern end of the site, view looking southeast. Utility lines discovered while trenching down to the terra cotta line (from foreground to background): 6 and 8-inch steam lines, 12-inch water line, and 8-inch steam line.



Building 233



Western edge of the site looking northeast. Utility lines discovered while trenching down to the terra cotta line: 4, 6 and 12-inch steam lines.

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Building 233



Steam-line utility vault at north end of the site; removed as LLRW week of October 8th.

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Building 233 - Path Forward



- Upcoming activities at Building 233 footprint include:
 - Removal of remaining subsurface drain line (one steel line)
 - Completion of site remediation and characterization report and Final Status Survey (FSS) plan
 - Performance of final site survey and sampling
 - Preparation and submittal of FSS report

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Naval Station Treasure Island



Site 12

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Site 12 - SWDA A&B



- Radiological surveys of Buildings 1123 and 1321 began in mid-September and continue. Demolition is tentatively planned for late 2012.



- A Post Construction Summary Report has been drafted which summarizes the status of SWDA A&B work completed to-date.

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Site 12 - SWDA A&B



- Weather and age-damaged fencing of SWDA A&B was improved by installing a new chain link fence along the western perimeter.

Work was performed September 20th and 26th.



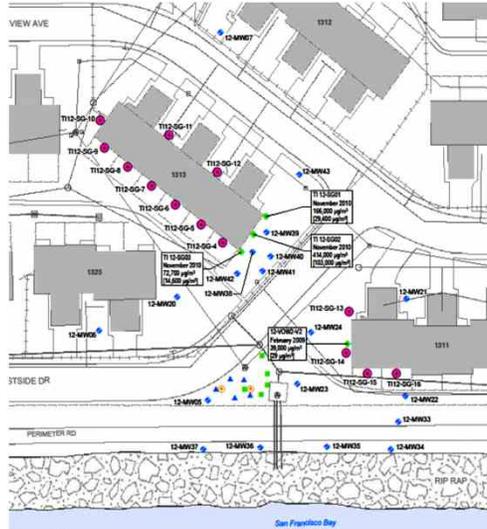
Chain link fence is erected along the western perimeter of SWDA A&B for security. Older perimeter fence is visible on the right.



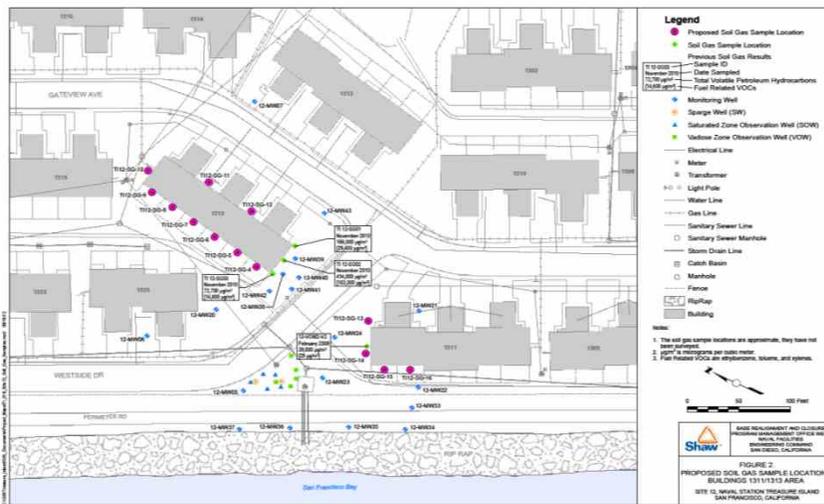
Soil Gas Investigation, Bldg 1311 & 1313



- Data from soil gas sample have been received from off-site laboratory and are in the process of being verified and validated (third party).
- Well abandonment is planned for October, 2012.
- A report will be generated summarizing the field work and results.



Soil Gas Investigation, Bldg 1311 & 1313



**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
October 2012 - March 2013**

Item	Document Title & Information	C/O/DO	INTERNAL DRAFT		DRAFT							RTC		INTERNAL FINAL		FINAL	Comments							
			Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Agency Comments					Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due	Final to Agencies									
						Date Due	DTSC	WATER BOARD	EPA	TIDA/TICD						RAB		OTHER	Priority Review					
Shaw Group																								
1	Building 233 Final Status Survey (FSS) RPM: Anthony Konzen PM: Pete Coultts	0010	11/20/12		12/04/12		12/18/12		01/09/13						01/23/13	TBD	01/26/13	01/28/13	01/30/13					
2	Site 21 Soil Gas HHRA Addendum RPM: Danielle Janda PM: Neil Hey	FZ01	06/29/12	✓	07/16/12	✓	07/27/12	✓	09/17/12	✓	✓	✓	✓	✓	10/11/12	✓	10/18/12	10/24/12	10/26/12	10/30/12	TIDA/TICD (8/27), EPA (9/10), DTSC (9/4), Water Board (9/17)			
3	Bayside/North Point Post-Construction Report RPM: Anthony Konzen PM: Pete Coultts	0010	10/18/11 07/03/12	✓ ✓	02/27/12 08/03/12	✓ ✓	09/07/12	✓	10/28/12						11/04/12	11/11/12	11/18/12	11/25/12	12/02/12	Agency review date extended by 30 days				
4	Site 31 Remedial Action Completion Report (RACR) RPM: Lora Battaglia PM: Tony Searls	0002	10/17/12		11/14/12		11/28/12		12/26/12						01/09/13	01/16/13	01/30/13	02/06/13	02/13/13					
5	Site 33 Remedial Action Completion Report (RACR) RPM: Lora Battaglia PM: Tony Searls	FZN9	07/31/12	✓	08/15/12	✓	09/10/12	✓	10/11/12						10/14/12	10/14/12	10/23/12	10/30/12	11/09/12					
6	SWDA A&B Post-Construction Summary Report RPM: Tony Konzen PM: Pete Coultts	FZN9	10/10/12		11/09/12		11/23/12		12/23/12						01/06/13	TBD	01/25/13	02/08/13	02/22/13					
7	Site 31 Final Status Survey (FSS) Report RPM: Lora Battaglia PM: Tony Searls	0002	01/15/13		02/12/13		02/26/13		03/26/13						04/09/13	04/16/13	04/30/13	05/07/13	05/14/13					
Chadux Tetra Tech																								
8	Site 21 ROD/RAP RPM: Danielle Janda PM: Jean Michaels	0083	11/30/11	✓	12/19/11	✓	02/07/12	✓	03/06/12	✓	✓	✓	✓	✓	04/16/12	✓	04/29/12	✓	05/06/12	✓	05/17/12	✓	TBD	ROD sent to BCT on 5/17 with redline
TriEco Tetra Tech																								
9	Historical Radiological Assessment Tech Memo RPM: David Clark PM: Marcie Rash	0003	05/30/12	✓	06/29/12	✓	08/06/12	✓	10/05/12	✓					11/02/12	TBD	12/02/12	12/12/12	12/26/12	SF PUC (10/3), DTSC/CDPH (10/5); TIDA/TICD (10/5), RAB (10/5)				
	2012 Site Management Plan RPM: David Clark PM: Marcie Rash	0003	03/26/12	✓	04/30/12	✓	05/21/12	✓	06/22/12	✓	✓	X	✓		07/26/12	✓	08/10/12	✓	08/29/12	✓	09/04/12	✓	09/11/12	DTSC (6/20), TIDA/TICD (6/22), WB (7/11)
10	Site 27 Remedial Design RPM: Lora Battaglia PM: Kafie Henry	0009	05/31/12* 12/5/12**	✓	06/20/12* 12/19/12**	✓	07/16/12* 01/05/13**	✓	08/16/12* 02/04/13**	✓	✓		✓		10/18/12* 2/12/13**	10/25/12	03/20/13	04/05/13	04/14/13	*30% design, **90% design TIDA (8/16), DTSC (8/20), Anchor (8/6), BCDC (8/28), WB (9/4), DFG (9/17)				
11	TI Times #19 Winter 2012 Newsletter RPM: David Clark PM: Marcie Rash	0003	10/22/12		11/05/12		11/12/12		11/26/12						12/10/12	NA	12/10/12	12/21/12	12/28/12					

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						Date Due	DISC	WATER BOARD	EPA	TIDA/TICD	RAB							OTHER	Priority Review						
Tetra Tech EM Inc.																									
12	Site 21 Land Use Control RD/RAWP	0001	06/29/12	✓	08/10/12	✓	TBD	TBD									Pending Signature of the ROD								
	RPM: Danielle Janda																								
	PM: Marcie Rash																								
Tetra Tech EC Inc.																									
13	Site 12 NTCRA for SWDA Hot Spot Removal and Bldg Demo	0013	09/28/12	✓	12/18/12		12/25/12	01/24/13							02/07/13	TBD	02/26/13	03/12/13	03/26/13						
	RPM: Tony Konzen																								
	PM: Bill Dougherty																								
Trevet																									
	2011 Sites 6 & 12 Annual Groundwater Report	9002	02/24/12	✓	03/25/12	✓	04/24/12	✓	05/24/12	✓	✓	X	✓			08/21/12	✓	NA	09/04/12	✓	09/11/12	✓	09/19/12	✓	DTSC (5/18), TIDA (5/25), EPA (5/30), WB (6/5)
	RPM: Tony Konzen																								
	PM: Greg Alyanakian																								
ERRG																									
14	Site 6 RI/FS Report	0002	09/23/11	✓	11/21/11	✓	12/22/11	✓	02/06/12	✓	✓	✓	✓			06/05/12	✓	06/21/12	✓	10/01/12	✓	10/11/12	10/25/12		DTSC (2/6), EPA (2/6), TIDA (2/6), WB (2/23)
	RPM: Tony Konzen																								
	PM: Phil Skorge																								
	UST 240 Corrective Action Plan Work Plan	0002	10/21/11	✓	11/30/11	✓	02/09/12	✓	03/11/12	X	✓	✓				06/28/12	✓	07/27/12	✓	09/05/12		09/08/12	09/12/12	✓	TIDA (3/9), WB (4/14)
	RPM: Tony Konzen																								
	PM: Phil Skorge																								
15	UST 240 Post-Construction Summary Report	0002	01/17/13		01/31/13		02/07/13		03/09/13							03/16/13		TBD		04/11/13		04/25/13		05/09/13	
	RPM: Tony Konzen																								
	PM: Phil Skorge																								
Kleinfelder and CH2M Hill																									
16	YF3 Field Activity Report	026	06/08/12	✓	07/01/12	✓	07/30/12	✓	09/27/12	X	✓	X	✓			10/22/12		10/29/12		TBD		TBD	TBD		TIDA (8/29), EPA (9/10), WB (9/27)
	RPM: Danielle Janda																								
	PM: Holly Carter																								
17	Site 12 Data Gaps Sampling Work Plan and SAP	1	09/04/12	✓	09/25/12	✓	10/23/12		11/22/12							TBD		TBD		12/25/12		01/08/13		01/22/13	
	RPM: Tony Konzen																								
	PM: Doug Gilkey																								

**Naval Station Treasure Island
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			Internal Draft Due to Navy	Navy Comments Due		Date Due	Agency Comments						Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due	Final to Agencies	
							DISC	WATER BOARD	EPA	TICD	RAB							
ITSI																		
18	Building 3 and Waste Utilities Scoping Survey WP	:	10/30/12	11/30/12	12/17/12	01/16/13							02/01/13	TBD	NA	NA	02/08/13	
	RPM: Danielle Janda																	
	PM: John Baur																	
19	Site 12, Roads and Site 32 Scoping Survey WP	:	11/21/12	12/21/12	01/03/13	02/02/13							02/20/13	TBD	NA	NA	02/26/13	Includes Site 12 non-SWDA areas, Pandemonium Sites 1&11, road-ways to/from Site 6, and B233 drain lines
	RPM: Danielle Janda																	
	PM: John Baur																	

✓ Production or review of document is complete.

X Received notification of no comments or comments deferred to other agency.

Abbreviations:

CTO/DO = Contract task order/delivery order
 DTSC = Department of Toxic Substances Control
 EPA = U.S. Environmental Protection Agency
 FS = Feasibility study
 HHRA = Human health risk assessment
 LUC = Land use control
 NA = Not applicable
 NTCRA = Non-time critical removal action

PCB = Polychlorinated biphenyls
 PM = Project manager
 PP = Proposed plan
 RAP = Remedial action plan
 RASO = Radiological Affairs Support Office
 RI = Remedial investigation
 ROD = Record of decision
 RPM = Remedial project manager

SAP = Sampling and analysis plan
 TBD = To be determined
 TICD = Treasure Island Community Developers
 TIDA = Treasure Island Development Authority
 UST = Underground storage tank
 Water Board (WB) = Regional Water Quality Control Board
 WP = Work Plan

Grey shading indicates the document is finalized.

Blue shading indicates agency review comments are due within the next 60 days or are outstanding.

Yellow shading indicates documents that will be issued draft or final within the next 60 days.

**Naval Station Treasure Island
Navy Field Schedule
October 2012 - March 2013**

Item	Activity and Investigation Area	DTS #	Field Dates	Navy RPM	CTO/DO	Complete
Shaw						
1	Non-Time Critical Removal Action <i>Site 12</i>	Doc --	Start: 02/26/07 Finish: TBD	Tony Konzen (619) 532-0924	010	
2	Sites 31/33 Remedial Action <i>Sites 31 and 33</i>	Doc --	Start: 02/02/12 Finish: 12/31/12	Lora Battaglia (619) 532-0968	FZN9	
3	Building 233 Debris Screening / Final Status Survey <i>Building 233</i>	Doc --	Start: 01/30/12 Finish: TBD	Tony Konzen (619) 532-0924	010	
4	Site 24 Phase 3 <i>Site 24</i>	Doc --	Start: 11/13/11 Finish: TBD	Danielle Janda (619) 532-0796	FZO1	
	Soil Gas Investigation, Building 1311/1313 Area <i>Site 12</i>	Doc --	Start: 07/10/12 Finish: 09/27/12	Danielle Janda (619) 532-0796	FZN1	✓
5	Demolition of Buildings 1123, 1319, 1321 <i>Site 12</i>	Doc --	Start: 06/18/12 Finish: TBD	Tony Konzen (619) 532-0924	010	
Trevet						
	Sites 21, 24 - 2nd Quarter Groundwater Sampling <i>Sites 21 and 24</i>	Doc --	Start: 09/17/12 Finish: 09/28/12	Danielle Janda (619) 532-0796	5011	✓
	Site 6 - 3rd Quarter Groundwater Sampling <i>Site 6</i>	Doc --	Start: 09/25/12 Finish: 09/25/12	Danielle Janda (619) 532-0796	5011	✓
6	Sites 21, 24 - 3rd Quarter Groundwater Sampling <i>Sites 21 and 24</i>	Doc --	Start: 12/03/12 Finish: 12/14/12	Danielle Janda (619) 532-0796	5011	
7	Site 6 4th Quarter and Site 12 Semiannual GW Sampling <i>Sites 6 and 12</i>	Doc --	Start: 12/10/12 Finish: 12/14/12	Danielle Janda (619) 532-0796	5011	
ERRG						
8	Site 6 / UST 240 Corrective Action <i>Site 6</i>	Doc --	Start: 11/05/12 Finish: 01/04/13	Tony Konzen (619) 532-0924	2608	
Kleinfelder and CH2M Hill						
9	Site 12 Pre-Feasibility Study Sampling <i>Site 12</i>	Doc 18	Start: 01/28/13 Finish: 04/07/13	Tony Konzen (619) 532-0924	I	

Abbreviations:

- Not applicable, there is no associated documentation listed on the DTS.
- CTO/DO Contract task order/delivery order
- DTS # The number listed corresponds to the associated documentation listed on the Document Tracking Sheet.
- RPM Remedial project manager
- TBD To be determined
- UST Underground storage tank

✓ Field work is complete.

Yellow shading indicates field activities that will start or finish within the next 60 days.

Grey shading indicates field activities are complete.