



FINAL

Former Naval Station Treasure Island Restoration Advisory Board (RAB) Meeting Minutes

Meeting 154

21 June 2011

Community Restoration Advisory Board (RAB) Members in attendance:

Nathan Brennan, John Gee, Alice Pilram, Dale Smith

Department of the Navy and Regulatory Agency RAB Members in attendance:

James Sullivan (Navy)

Other Navy and Regulatory Staff and Consultant Representatives in attendance:

Jessica Beck (Tetra Tech EM Inc. [Tetra Tech])

Pete Bourgeois (Shaw Environmental and Infrastructure, Inc. [Shaw])

David Clark (Navy)

Shirley Fu (Tetra Tech)

Brian Holmgren (Shaw)

Tony Konzen (Navy)

Yohji Ono (Tetra Tech)

Marcie Rash (Tetra Tech)

Tommie Jean Valmassy (Tetra Tech)

Public Guests

Melanie Williams

Welcome Remarks and Introductions

James Sullivan (Base Realignment and Closure [BRAC] Environmental Coordinator) opened the June RAB meeting for Former Naval Station Treasure Island (NAVSTA TI), held at the Casa de la Vista (Building 271) on Treasure Island (TI). Mr. Sullivan thanked attendees who participated in the informal site tour the hour before the meeting. Mr. Sullivan noted the meeting handouts are available on the back table, including copies of the agenda ([Attachment A](#)), which was also mailed out to RAB members. Mr. Sullivan asked for any comments or changes to the agenda. Dale Smith (RAB member) asked if the Site 27 Clipper Cove Proposed Plan/Draft Remedial Action Plan (PP/Draft RAP) could be moved up in the agenda, before the Site 12 Remedial Investigation (RI) Report update. Mr. Sullivan agreed, and the agenda was adjusted.

Public Comment and Announcements

Mr. Sullivan invited public comment, noting there is also time at the end of the meeting for additional public comment. There was no public comment at this time.

Treasure Island/Yerba Buena Island Property Transfer Update and Finding of Suitability to Transfer

Mr. Sullivan provided his regular RAB meeting update on the status of property transfer, including the Finding of Suitability for Transfer (FOST) ([Attachment B](#)). Transfer of FOST property from the Navy to the Treasure Island Development Authority (TIDA) has not yet occurred, but is expected to occur in phases beginning in early 2012.

Mr. Sullivan said the Navy must complete FOST 3 and the single addendum to the two 2006 FOSTs, as well as the Final Status Survey at Building 233; the Site 21 Record of Decision (ROD); and the Remedial Action Completion Report at Site 33 in order to finalize the initial property conveyance to TIDA. Mr. Sullivan noted the RAB visited those three sites during the tour just before this meeting.

Mr. Sullivan said there is no new information about the status of transfer, but he hopes to provide an update at the next RAB meeting in August. He asked for any questions; there were none.

Field Activities and Access Update

Mr. Sullivan introduced Pete Bourgeois (Shaw) to present the field activities updates for Sites 21, 24, and 32 ([Attachment C](#)). Mr. Bourgeois said Shaw will conduct groundwater monitoring at Sites 21, 24, and 32 for 1 year, and the first round was completed on April 5. Based on the data received during this round of groundwater sampling, some of the wells planned for sampling will be adjusted at Site 24. The Navy and Shaw have yet to decide exactly how the wells will be adjusted prior to the next round of sampling.

Mr. Bourgeois said the Phase II Treatability Study report for Site 24 will be distributed to the regulatory agencies and the RAB for review in late July. The draft work plan for Phase III treatability study work was already submitted. The Phase III work involves continued bioremediation to address areas specifically where the plume has rebounded. Ms. Smith confirmed she had received the Phase III Treatability Study Work Plan for review. Mr. Bourgeois noted comments are due on July 7. He explained the basic plan for the Phase III work is injection and extraction in the source area. Then, direct injection around areas in the southern plume, where there are elevated concentrations, to bound it. A modification to the Phase III work will be collecting soil gas samples at Site 24 and Site 21. The soil gas samples at Site 24 will provide preliminary data since the bioremediation is still ongoing there.

Mr. Sullivan added that a portion of the Treasure Island Development Authority's (TIDA) planned development is directly adjacent to Site 24. In working with TIDA, the Navy agreed to collect this additional soil gas information along the southern boundary of Site 24.

Mr. Bourgeois moved on to the update on Site 31. Shaw investigated a radiological anomaly on April 26, and radium-226 was detected. Shaw is rewriting the Site 31 work plans to encompass all the radiological policies and procedures that were followed at Site 12, where soil with radium-226 was excavated and disposed of. As a result, the soil will be excavated in “lifts” and scanned using Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) protocols. The site has tree cutting debris that will be removed once work restarts at the site. The tree stumps that remain in the ground will be disposed of as low-level radiological material because they cannot be reliably scanned. Concrete and asphalt that will be removed from Sites 31 and 33 will be scanned, if possible, before it is removed, or it will be removed as low level radiological waste. The remedial action at Site 31 is currently scheduled for early winter 2011.

For Site 32, Shaw is incorporating final comments to the field activities report, and the document will go final on June 24. For Site 33, the Explanation of Significant Differences (ESD) was signed and distributed on May 30. Remedial work at Site 33 will follow the completion of work at Site 31. Ms. Smith asked to what depth is Shaw excavating. Mr. Bourgeois said to 6 feet at Site 31, and 4½ feet at Site 33. Ms. Smith asked if Shaw will excavate deeper. Mr. Bourgeois said Shaw will continue to excavate in those areas if confirmation samples at the bottom of the excavation indicate contamination hot spots. Mr. Sullivan explained the 6-foot depth at Site 31 is based on data gathered during the remedial investigation. The Navy’s goal at both sites is to achieve clean closure.

Mr. Bourgeois moved on to the update of Building 233 ([Attachment D](#)). He noted the tour had driven by this site just prior to the meeting. The building has been removed and the foundation has been covered with plastic. In addition, the building debris has also been covered with plastic, except for the first floor, which has already been scanned outside the footprint of the original structure. Shaw submitted a debris disposal summary package to the State of California Department of Public Health (CDPH) for review. This package includes the data from scanning, including instrument efficiency information. The state will review whether the debris can be disposed of as Class II material or as low-level radiological waste. Mr. Bourgeois added Shaw and the Navy believe it should be disposed of as Class II material because Shaw completed thorough scans of Building 233 before it was demolished, and anything that was found to have radiological contamination was removed in advance. The steps forward for Building 233 are to let the state finish its due diligence reviews to identify disposal options. Shaw is also writing a work plan to address the footprint of the building.

Ms. Smith asked if the Radiological Affairs Support Office (RASO) has signed off on the work. Mr. Sullivan confirmed that RASO has reviewed the information.

He added that RASO is part of the Navy, so it reviews everything before it goes to the regulatory agencies. An update on Site 12 was handed out ([Attachment E](#)) but not reviewed during the activities update.

Site 27 Clipper Cove Skeet Range Proposed Plan/Draft Remedial Action Plan

Mr. Sullivan introduced the next topic, moved up on the agenda by request, the Site 27 update ([Attachment F](#)). Dave Clark (Navy Lead Remedial Project Manager) presented the update. Mr. Clark said the PP/Draft RAP public meeting was held the week before this meeting. Since the RAB is familiar with the site, this presentation will not include a detailed history. He noted the California Department of Toxic Substances Control (DTSC) has its own environmental requirements related to the California Environmental Quality Act (CEQA). The Navy's PP was combined with the DTSC's Draft RAP, and a joint public meeting was held. Mr. Sullivan noted DTSC's CEQA document, the Negative Declaration, can be found in the Navy's information repository. Mr. Clark noted it is also in the state clearinghouse.

Mr. Clark said the Navy is attempting to clean up Site 27 to protect the diving ducks from lead shot. Lead shot is present because the site was formerly a skeet range. The PP/Draft RAP sets forth three alternatives: alternative one is the required no action alternative, and the other two involve dredging. Alternative two is focused dredging to a depth of 2½ feet. Alternative 3 is site-wide dredging. Mr. Clark noted the alternatives are evaluated against nine criteria:

- Two threshold criteria, which are (1) protection of human health and the environment and (2) compliance with applicable or relevant and appropriate requirements (ARAR).
- Five primary balancing criteria, which are (3) long-term effectiveness and permanence, (4) reduction of toxicity, mobility, or volume, (5) short-term effectiveness, (6) implementability, and (7) cost.
- The two final criteria, which are (8) state acceptance and (9) community acceptance.

After they had been evaluated for the first seven criteria, Alternative 2b ranked the highest and is the Navy's preferred alternative. That alternative is focused dredging of sediment in the nearshore area to a depth of 2½ feet and beneficial reuse of dredged sediment. Mr. Clark noted sediment reuse means it will be taken to a wetlands restoration project and used as a base fill (not top fill). Mr. Clark noted there are posters in the back of the room that detail the differences in the alternatives, including cost. Those details are also found in the PP/Draft RAP document, which was sent to the entire community mailing list and is on

the handout table for anyone who did not receive one. The costs for the alternatives range from about \$2 million to about \$20 million.

Mr. Clark said that, with the preferred alternative, in addition to focused dredging, the area will be backfilled to prevent exposure to the ducks and may include armor rock to prevent further erosion. Some form of institutional controls to restrict drilling and boat speeds are also included in the preferred alternative. The focused dredging is not expected to take a long time because it is a fraction of the area that would be dredged in the alternative of site-wide dredging.

Mr. Clark noted the PP/Draft RAP was submitted for public review on June 2, and comments are due by July 2. The next step will be the ROD/RAP, which the Navy hopes to complete by Spring 2012. All of the comments received on the PP/Draft RAP will be addressed in a responsiveness summary, which is part of the ROD/RAP.

Nathan Brennan (RAB member) said one item that is not addressed in the PP/Draft RAP is that Site 27 was originally used as a marina, and the City plans to use it as a marina after transfer. He asked for more information about the Navy's routine dredging in the area to maintain access for boats, as well as the City's ability to dredge in the future to maintain it for boats to use as a marina. He noted that outside of the area of the Navy's dredging in the Site 27 preferred alternative 2b, there might have been past routine dredging by the Navy that would need to be continued by the City to maintain the depth for sailboats. Mr. Sullivan said he does not have any information on exactly when the cove was dredged, if ever. The Navy was creating a plan to dredge in the 1990s, but with the closure of NAVSTA TI, the dredging was not completed. He added that the Navy will work with TIDA and the marina developer when the Navy reaches the remedial design phase. Mr. Sullivan added that the Navy did see a dredging plan from the developer where all of the dredging was outside the arc of Site 27. Mr. Brennan said that if the marina developer will have to dredge an area that the Navy is not dredging as part of the clean up, it should be noted and perhaps it can be addressed now.

Ms. Smith said she has comments and will send a comment letter on the Site 27 PP/Draft RAP. She asked if the Navy had asked the Yacht Club if it had chartered any sediment removal, and if not, the Navy should find out. She noted the Navy's calculated rates of deposition may be incorrect if it is not aware of all of the previous work that has been done to remove sediment in the cove. Ms. Smith also stated the highest lead pellet count appears to be at 3 to 4 feet below the sediment surface and the Navy should consider excavation to that depth. Ms. Smith added that rock armor may impede the City's ability to use the area as a marina. She asked if the Coastal Commission and the Bay Conservation and

Development Commission (BCDC) had commented on the PP/Draft RAP. Mr. Clark said the Coastal Commission and BCDC had the opportunity to comment on the PP/Draft RAP, and as yet have not submitted comments.

Mr. Sullivan explained the rock armor is not necessarily the final remedial design. The armor was included in the PP/Draft RAP to indicate there will be some method to anchor the clean fill that will be placed, because it is an erosional area.

Ms. Smith stated she finds it unacceptable that the Navy does not plan to dredge the entire area to make it possible for the City to reuse it as a marina. She noted she will submit formal comments in writing.

Site 12 Draft Remedial Investigation Report

Mr. Sullivan introduced the next topic, the Draft RI for Site 12 ([Attachment G](#)). He noted that at the April RAB meeting, before the draft was issued, an overview of the document was provided. The document has since been issued, and this presentation will be on the results in the RI. Tony Konzen was introduced as the Navy project manager for Site 12. Mr. Konzen described some of the background for Site 12 and noted it is about 94 acres. For the purpose of the RI, Site 12 was divided into 19 exposure units (EU), six areas of interest (AOI), and then into northern and southern portions. Slide 3 of the handout shows a map of how Site 12 was divided for the RI report.

Contaminants that exceeded screening criteria or ambient levels for soil included total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAH), pesticides, polychlorinated biphenyls (PCB), metals, and dioxin measured in toxicity equivalent quotient (TEQ). Contaminants that exceeded screening criteria or ambient levels for groundwater included TPH and metals. Contaminants that exceeded screening criteria or ambient levels for soil gas included volatile organic compounds (VOC), specifically benzene and chloroform. Mr. Konzen then introduced Shirley Fu (Tetra Tech) to discuss the human health risk assessment (HHRA). Ms. Fu said she would present a summary of how the HHRA was done, and the results.

The methodology for the HHRA was established between the Navy and the regulatory agencies in 2006. It was updated in 2009 to reflect current guidance issued by DTSC and the U.S. Environmental Protection Agency (EPA) between 2006 and 2009. The HHRA includes a separate evaluation for each EU and each AOI, so there are 25 separate risk assessments in the RI. For each one there is an estimate of total risk, site risk, incremental risk, and ambient risk. And for each of those four types, risk was estimated two ways: based on US EPA toxicity criteria, and on DTSC toxicity criteria. The reason for all of these estimates is to

provide the Navy and the regulatory agencies with as much information as possible to make cleanup decisions about Site 12.

Ms. Fu noted several scenarios were assessed including current residential (adult and child), future residential (adult and child), future industrial, future construction, and future recreational (adult and child). See the table on slide 6 of the handout.

For assessing cancer risks, results are compared to a threshold of one in a million (1:1,000,000). Risks less than that level are considered negligible and remedial action is not required. Risks that exceed one in 10,000 may require remedial action. Risks that fall between those two ranges are referred to as within the risk management range. Remedial action is not necessarily required, but a feasibility study (FS) will be done to determine how to manage the risks. A hazard index is calculated and compared with an index of 1 for noncancer risks. Results less than 1 do not require action. Results greater than 1 may require action.

Ms. Fu noted that lead is evaluated differently than the rest of the chemicals because there are different mechanisms of toxicity and exposure to lead. Lead levels are compared with both EPA and DTSC screening criteria. Slide 8 presents a summary of all 25 of the risk assessment results for soil. Cancer risk results that are less than one in a million are shown as green dots. Cancer risk results within the risk management range are shown as blue dots. Noncancer hazards that exceed 1 are circled in red. John Gee (RAB member) asked what the green shading indicates. Ms. Fu stated the green shading indicates contaminants are likely to be present based specifically on past Navy activities at NAVSTA TI. She noted the figure in the RI report has a legend and explains the tables in greater detail.

Ms. Smith asked if the entire site will be cleaned to residential standards, or if only the areas determined to be the responsibility of the Navy will be cleaned. She asked if some locations will not be cleaned because even though they do not meet DTSC cleanup standards, they have been determined to be ambient levels. Ms. Fu stated the Navy will clean only to ambient levels, even if ambient levels are greater than risk-based concentrations for residential exposure. Ms. Fu explained the reason for that approach is because the Navy is unable to clean to a level greater than what is naturally occurring. She added this approach is accepted by EPA and DTSC and is used at sites throughout California.

Ms. Smith added she is concerned that the radium levels are also being called ambient at NAVSTA TI and will not be addressed. Mr. Sullivan said the Site 12 RI does not address radiation; it is solely to address chemical contamination.

Other specific, concurrent investigations are addressing radiological contamination.

Ms. Fu showed some of the graphs from the RI report that summarize risk in various ways. She noted that, in some cases, as shown on the graphs, the ambient risk results are fairly significant for the site, and in some cases exceed the site risk results.

Ms. Fu moved on to the groundwater risk results. She stated they are evaluated by source area rather than EU and AOI. The only exposure scenario for groundwater is construction workers, and the only chemical of concern identified for groundwater is arsenic.

Ms. Fu then reviewed soil gas, or vapor intrusion, risk results. Vapor intrusion was evaluated for current and future residential and commercial/industrial worker exposure scenarios. Two chemicals of concern were identified, benzene and chloroform, which occurred at only two of the EUs.

Ms. Smith asked what is meant in the document by "BAP equivalent." She said in some cases, the document describes the individual chemicals and sometimes it just indicates "BAP equivalent." Ms. Fu responded the document evaluates each of the individual PAHs. However, in the discussion of nature and extent of contamination, benzo(a)pyrene (individual PAH) and BAP equivalent (which accounts for all of the carcinogenic PAHs together as one) are discussed. TI has a previously established cleanup level for BAP equivalent concentrations. She said those comparisons will be clarified in the final document.

Ms. Smith also said she is concerned about lead levels. On page 9-22, the draft RI states that the lead level is 400 milligrams per kilogram (mg/kg). She said the new DTSC standards are 80 mg/kg, but the Navy is using 400 mg/kg, so there will be areas that are not investigated further because of the high lead level being used. Ms. Fu stated that the RI Report includes comparisons to both the DTSC and EPA lead levels, but any determinations of whether additional work will be done will be decided in the FS. Ms. Fu also stated the Navy and regulatory agencies will be discussing the target levels for lead. Mr. Sullivan said the Navy will review that statement noted by Ms. Smith in the document.

Mr. Konzen reviewed some of the recommendations in the RI. For soil, soil gas, and groundwater they include continued monitoring at Buildings 1311/1313 petroleum area (in EUs 15, 16, and 19), and developing remedial alternatives for TPH and arsenic. For only soil the recommendations include:

- Evaluating human health risk of post-removal soil at the four Solid Waste Disposal Areas (SWDAs) (currently undergoing a non-time-critical removal action [NTCRA]),
- Further evaluating pesticides in soil in the southeastern portion of AOI 1254,
- Further evaluating PCBs at EU 9 and AOIs 1254 and Halyburton/Bigelow Court,
- Further evaluating dioxins at EU 16 and AOIs 1201/1203/1220
- Evaluating remedial alternatives for Site 12 north EU 9 and AOIs 1201/1203/1220, AOI 1254, and AOI Mariner Drive; and Site 12 south EUs 17 and 19 and AOI Halyburton/Bigelow Court.

Recommendations for groundwater include monitoring at currently planned areas and at SWDA A&B once the NTCRA is completed, and evaluating remedial alternatives in exposure areas GW-S1, GW-S2, GW-S4, and GW-S5.

Mr. Konzen reviewed the schedule for the Site 12 RI. The draft was issued on June 10, and comments are due July 13. Mr. Sullivan said DTSC asked for an extension to the comment period, so the time frames will be adjusted.

Ms. Smith asked what the "S" denotes in the groundwater locations, such as GW-S4. Ms. Fu said that the "S" stands for source area. Ms. Smith noted the text does not accurately describe the locations of the source areas as shown on the maps because the directions are given based on the vertical orientation of TI in the figure. However, the north arrow is actually pointed towards the upper right in the map. Mr. Konzen said the Navy will review the descriptions in the text to ensure they match the maps.

Lastly, Ms. Smith said there are sporadic concentrations of metals within the first 2 feet below ground surface, but there is no further mention of them anywhere else in the document. Mr. Konzen responded the current recommendations in the RI are not the final determination for the cleanup of the site, and cleanup options will be further reviewed in the FS.

Upcoming Documents and Field Schedule

Mr. Sullivan introduced Jessica Beck (Tetra Tech) to present the Document Tracking Sheet ([Attachment H](#)) and the Field Schedule Sheet ([Attachment I](#)). Ms. Beck noted there are several documents being issued as draft within the next month, all of which are highlighted in yellow on the handout. Mr. Sullivan noted the RAB members said they do not need to review the draft Site Management Plan (SMP), so the RAB will receive it when it is final. Ms. Beck noted the dates for the Site 12 RI, and reminded the group that the comment

period will be extended. Mr. Sullivan said he will send an e-mail specifically confirming the new comment due date.

Ms. Beck noted there is no new field work scheduled to begin, but three field activities were just completed. They include the hot spot removal at Site 12, the basewide monitoring well decommissioning, and the groundwater sampling at Sites 6 and 12.

RAB Meeting Minutes

Mr. Sullivan asked for comments on the draft April 2011 RAB meeting minutes. Ms. Smith provided comments. The minutes were accepted as final pending incorporation of Ms. Smith's comments.

Co-Chair Announcements

Alice Pilram (RAB community co-chair) stated TI now has a flea market the last weekend of every month. She also said there is a statue on the island, near the RAB meeting location, and encouraged people to view it after the meeting. She said it is the first major art installation at TI.

BRAC Cleanup Team Update

Mr. Sullivan stated the May BRAC Cleanup Team (BCT) meeting was an extended day and a half meeting to discuss in detail the SMP. The team also had an extended discussion about the Site 12 RI report. The team also met in June, and the meeting included standard items, including the data package for Building 233 that was submitted to CDPH for review. The next BCT meeting will be the first Wednesday in July.

Ms. Smith said she would like DTSC to attend RAB meetings where FSs and any hazards associated with NAVSTA TI are discussed. Mr. Sullivan noted that DTSC had planned to attend tonight's meeting but was unable to attend. Ms. Smith added their attendance would serve to reassure the RAB that things are being done the way they are supposed to be done. Mr. Sullivan said he will pass along the feedback that Ms. Smith would like DTSC to attend.

Other Public Comments and Announcements

Mr. Brennan said the Citizen's Advisory Board (CAB) will not be meeting for a while because its redevelopment plan has been approved. The plan went through TIDA and the planning commission, then the San Francisco Board of Supervisors, and was finally signed by the mayor on June 15. Mr. Brennan noted the state is discussing eliminating funding for redevelopment, but the City has come up with an alternative plan to fund redevelopment. Mr. Sullivan asked if the CAB will still meet, and at what point it will sunset. Mr. Brennan said the CAB will still meet to further refine development guidelines, but exactly when is

to be determined. He said the CAB is also trying to determine when it will sunset.

Future Meeting Agenda Items

Mr. Sullivan said the Navy will include whatever is timely on the agenda. After some discussion, Mr. Sullivan said the Navy will keep a pre-meeting tour on the agenda for August.

Mr. Sullivan noted the schedule for the next meeting and the next RAB conference call are on the back of the agenda ([Attachment A](#)). The meeting was adjourned.

June 2011 RAB Meeting Handouts

- Attachment A: NAVSTA TI RAB Meeting No. 154 Agenda, 21 June 2011
- Attachment B: Property Transfer & FOST Update, 21 June 2011
- Attachment C: Field Activities, 21 June 2011
- Attachment D: Field Efforts Building 233, 21 June 2011
- Attachment E: Site 12, 21 June 2011
- Attachment F: Site 27 Clipper Cove Skeet Range, 21 June 2011
- Attachment G: Site 12 Draft Remedial Investigation Report Overview, 21 June 2011
- Attachment H: Document Tracking Sheet, 21 June 2011
- Attachment I: Field Schedule, 21 June 2011

NAVAL STATION TREASURE ISLAND
ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING

Tuesday, 21 June 2011

7:00 PM.

Casa de la Vista Building 271

Treasure Island

MEETING NO. 154

- 6:00 – 7:00 **Optional Site Tour** (Meet at Casa de la Vista)
- 7:00 – 7:05 **Welcome Remarks and Introductions**
Lead: James Sullivan, Navy Co-Chair
- 7:05 – 7:10 **Public Comment and Announcements**
Lead: James Sullivan, Navy Co-Chair
- 7:10 – 7:15 **Treasure Island/Yerba Buena Island Property Transfer Update**
Lead: James Sullivan, Navy Co-Chair
- 7:15 – 7:30 **Field Activities and Access Update**
Lead: Pete Bourgeois, Shaw E & I
- 7:30 – 8:00 **Site 12 Draft Remedial Investigation (RI) Report Results**
Lead: Anthony Konzen, Remedial Project Manager and Shirley Fu, Tetra Tech EMI
- 8:00 – 8:10 **Site 27 Clipper Cove Skeet Range Proposed Plan/Draft RAP**
Lead: David Clark, Lead Remedial Project Manager
- 8:10 – 8:20 **Upcoming Documents and Field Schedule**
Lead: Jessica Beck, Tetra Tech EMI
- 8:20 – 8:25 **RAB Meeting Minutes**
Lead: James Sullivan, Navy Co-Chair
- 8:25 – 8:30 **Co-Chair Announcements**
Lead: Alice Pilram, Community Co-Chair
- 8:30 – 8:35 **BRAC Cleanup Team Update**
Lead: James Sullivan, Navy Co-Chair
- 8:35 – 8:40 **Other Public Comment and Announcements**
Lead: James Sullivan, Navy Co-Chair
- 8:40 – 8:45 **Future Meeting Agenda Items**
Lead: Navy and Community Co-Chairs
- August pre-meeting Site Tour

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 Meetings: No July 2011 Meeting

7:00 pm Tuesday, 16 August 2011
Casa de la Vista, Treasure Island

No September 2011 Meeting

7:00 pm Tuesday, 18 October 2011
Casa de la Vista, Treasure Island

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

Next Interim RAB Community Member Conference Call: **(Last Tuesday of pre-RAB month)**

Tuesday, 26 July 2011, 7:00 pm.
Call-In Number: 1- 866-822-0121
Participant Code: 1122026

(Note: This same number will be used for future conference calls)

Next BCT/RPM/Project Team Meeting: 10:00 am. **Wednesday** 6 July 2011, Tetra Tech EMI, **Oakland**

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

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BRAC Program Management Office



Naval Station Treasure Island Property Transfer & FOST Update

Restoration Advisory Board
June 21, 2011



Property Transfer & FOST Update



- Property transfer (conveyance) of FOSTed property to the Treasure Island Development Authority (TIDA) has not yet occurred, but is expected to occur in phases beginning in 2012.
- Portions of former Naval Station property have been previously transferred to the U.S. Department of Labor for the Job Corps Center on TI, to the U.S. Coast Guard on YBI, and by the Federal Highway Administration (FHWA) to Caltrans. The remaining Navy property will be transferred to TIDA.
- The Navy currently leases large portions of the remaining Navy property on TI and YBI to TIDA, and TIDA subleases property for housing, recreation, businesses, special events and other uses.



Property Transfer & FOST Update



- Major actions required for initial property conveyance from Navy to TIDA:
 - Navy completion of FOST 3 (aka 2010 FOST)
 - Navy completion of Addendum to 2006 FOSTs (FOST 1&2)
 - TIDA completion of CEQA
 - Finalization of Conveyance Agreement (EDC, maps, deed, etc.)
 - Approval of final documents by Navy Headquarters and the San Francisco Board of Supervisors
 - Navy environmental milestones
 - Complete Building 233 Radiological Final Status Survey Report
 - Complete CERCLA Site 21 Final Record of Decision (ROD)
 - Conduct Remedial Action at Site 33 and complete Remedial Action Completion Report (RACR)

3



Property Transfer & FOST Update



- Initial Property Conveyance in 2012 will consist of:
 - 2006 Treasure Island and Yerba Buena Island FOSTs (1&2)
 - FOST 3
 - Addendum to 2006 FOSTs (1&2)
- No Early Transfers planned at this time.
- Future additional FOSTs and property conveyances as environmental actions are completed and property becomes FOST-able. The overall schedule for environmental actions is in the Site Management Plan (SMP).

4



Naval Station Treasure Island

Field Activities

June 21, 2011 RAB Meeting



Groundwater Monitoring at Sites 21, 24, and 32

- **First quarter groundwater monitoring activities were conducted between March 9th and April 5th.**
- **Thirty five (35) wells were sampled at Site 21. Fifty two (52) wells were sampled at Site 24. Two (2) wells were sampled at Site 32.**
- **Second quarter groundwater monitoring activities will begin in late-June.**



Site 24 Treatability Study

Phase 2 Treatability Report

- The Internal Draft Treatability Report was completed by Shaw and submitted to the Navy for review on April 19th. The Draft document will be sent to the agencies in early July for review.

Phase 3 Work Plan

- The Draft Work Plans went to the agencies on June 7, 2011.
- Phase 3 work will address residual contamination along site boundary

3



Soil Gas Sampling

Sites 21 & 24

- Shaw received a modification to complete Soil Gas sampling at Sites 21 and 24. Twenty six (26) locations at Site 21 and eight (8) locations at Site 24 are currently scoped under this modification.
- Shaw submitted the Internal Draft Addendum to the Navy for review on June 13th.

4



Site 31 Steps Forward

- The Navy conducted field work for the anomaly investigation on April 26, 2011.
- The results from the anomaly sampling showed elevated Radium, which will require additional updates to the Internal Draft Work Plans, which will be sent back to the Navy for review on July 1, 2011. (These plans include Site 33 as well).
- Tree Debris was removed on Thursday June 16th. The stumps and roots remain in the ground and will be dealt with as excavated material.

5



Site 31 Steps Forward

- The Concrete and Asphalt will be scanned prior to removal from the Site work at both Site 31 and 33.
- Remedial action at Site 31 is scheduled for late summer.

6



Site 32 Steps Forward

- **Shaw is incorporating some final comments to the Field Activity Report, Soil Excavation, Parcel T111/Site 32 and TX-152 (1) PCB Remediation Plans.**
- **The document will go final on June 24th**

7



Site 33 Steps Forward

- **Final ESD was signed and distributed May 30th.**
- **Public notice was placed in the SF Chronicle June 2nd.**
- **Remedial action at Site 33 will follow the completion of work at Site 31 and is scheduled to begin late summer.**

8



Field Efforts Building 233

June 21, 2011 RAB Meeting



Building 233

- **Shaw covered the footprint of Building 233 with plastic on April 7th**
- **Shaw prepared a debris disposal summary package, which summarizes work performed for the State's review.**
- **Shaw is revising the Building 233 Work Plan for Characterization, Remediation, and Final Status Survey activities to address State comments and reorganize the document to include Characterization and Remediation Phases before completing the Final Status Survey.**



Footprint of Building 233





Naval Station Treasure Island Site 12

June 21, 2011 RAB Meeting



Site 12 Documents



Site 12 Final Status Survey Plan:

- Shaw is currently developing the Internal Draft Plan. New background data was collected in March and received on May 16th for inclusion into the Plan and will follow MARSSIM guidelines.

Buildings 1123, 1319, & 1321 Demolition Work Instruction:

- Shaw is revising the Work Instruction to follow MARSSIM guidelines.



Site 12 Hot Spot Work



Slotted Pipe set into box for dewatering process.



Site set-up With B-25 Box and Drum, Plastic Sheetting and Equipment.

3



Site 12 Hot Spot Work



After Dose Rate Measurements the Protective Trench Plate was Removed to begin Excavation Efforts



Begin Excavation and Radiological Monitoring.

4



Site 12 Hot Spot Work



Use of a Ludlum Model 78 and 7073 Stretch Scope to Take Readings of the Soil and Excavation Footprint from a Distance (the reach was 12-feet).

5



Site 12 Hot Spot Work



Air Monitoring During Field work for Chemical and Radiological Concerns

6



Site 12 Hot Spot Work



Excavation Efforts and Debris Found in the Excavation

7



Site 12 Hot Spot Work



8



Site 12 Hot Spot Work



9



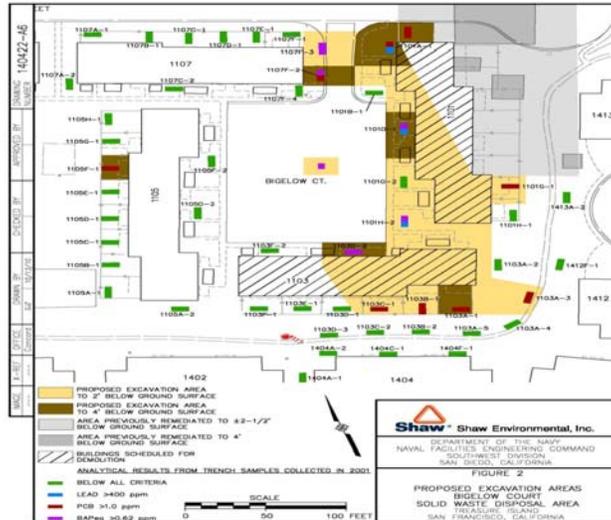
Site 12 Hot Spot Work



9



Upcoming Work at Bigelow Ct.



2



Bigelow Court Look Ahead



Work Plan:

- The Internal Draft Work Plan is currently in Navy review. Shaw expects comments to be completed in June.

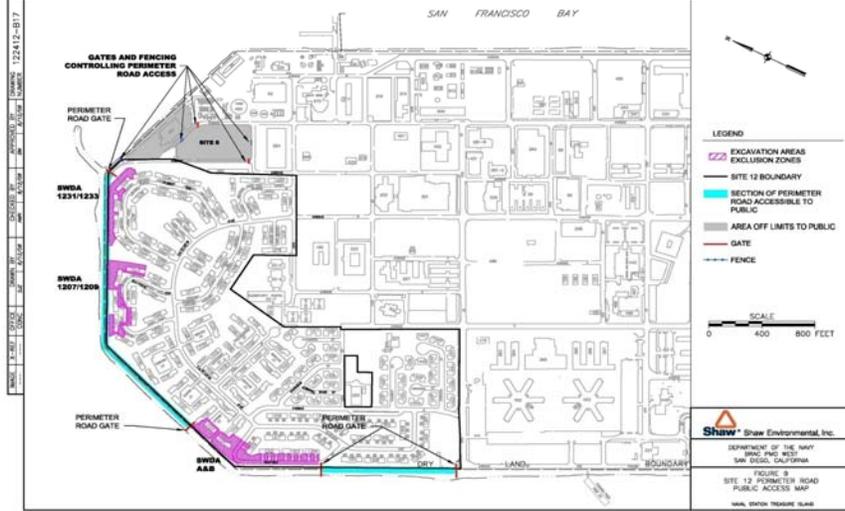
Field Mobilization:

- Field activities are expected to start late this summer.

3



Perimeter Road Access





Proposed Plan/ Draft Remedial Action Plan



Naval Station Treasure Island IR Site 27 Clipper Cove Skeet Range

Restoration Advisory Board
June 21, 2011



Department of
Toxic Substances
Control



California Environmental Quality Act (CEQA)



- California Legislature passed CEQA in 1970.
- CEQA requires public agencies to examine the environmental impacts of projects or actions which have the potential to have a physical impact on the environment.

Department of
Toxic Substances
Control



Initial Study/Negative Declaration



- Lead Agency conducts *Initial Study* which is an assessment to determine if the Project may produce “significant” environmental effects.
- The Initial Study includes a Checklist to assess the potential environmental impact of the project, with explanations if no environmental impact.
- Based on the Initial Study, DTSC has prepared a *Draft Negative Declaration* for the proposed cleanup at Site 27/Clipper Cove.

3



What is Proposed Plan/ Draft Remedial Action Plan (RAP)



- The Proposed Plan/Draft RAP evaluates alternatives and proposes a remedial (cleanup) plan for Site 27/Clipper Cove.
- The public is invited to submit comments on the Proposed Plan/Draft RAP during the 30-day public comment period.
- Following the comment period, response to public comments and a Record of Decision/Final RAP will be prepared.

4





Remedial Alternatives



Alternative 1: No Action

Alternative 2: Focused Dredging and Backfill,
Institutional Controls, and Sediment Monitoring

(2a: landfill disposal of sediment)

(2b: beneficial reuse of sediment)

Alternative 3: Site-wide Dredging

(3a: landfill disposal of sediment)

(3b: beneficial reuse of sediment)



5

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Toxic Substances
Control



Excavation Areas for Alternatives 2 and 3



6

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Control



Comparative Analysis of Alternatives



TABLE 2: COMPARATIVE RANKING OF ALTERNATIVES

Criterion Type	Criterion	Alternative 2: Focused Dredging and Backfill, Off-Site Disposal of Sediment, Institutional Controls, and Sediment Monitoring		Alternative 3: Site-Wide Dredging and Off-Site Disposal of Sediment	
		2a: Landfill Disposal of Sediment	2b: Sediment Beneficial Reuse	3a: Landfill Disposal of Sediment	3b: Sediment Beneficial Reuse
		Threshold	Overall Protection of Human Health and Environment	5	5
	Compliance with ARARs	5	5	5	5
Primary Balancing	Long-Term Effectiveness/ Permanence	4	4	5	5
	Reduction of Toxicity, Mobility, or Volume through Treatment	0	0	0	0
	Short-Term Effectiveness	2.5	3	1	2
	Implementability	2.5	3	1	2
	Cost	3	3	1	1
Score		22	23	18	20
Rank		2 nd	1 st	4 th	3 rd

Notes: Each individual rating was on a scale from 1 to 5, with 5 being the highest rating. Individual ratings for each criterion were then summed up to yield a total score or relative ranking. Since there were seven criteria, the maximum total score is 35.

7



Preferred Alternative



The Navy's preferred remedial alternative is Alternative 2b, which would be implemented by:

- Removing contaminated sediments to a depth of at least 2.5 feet in the nearshore area where there is a current complete exposure pathway,
- Beneficial reuse of sediment,
- Backfilling the area with clean fill to prevent exposure to diving ducks, and
- Implementing institutional controls throughout the site to restrict activities that might disturb sediment.

8



Reasons for Selecting Alternative 2b



1. Provides overall protection of the environment by removing the current complete exposure pathway for diving ducks and ensures the pathway will remain incomplete in the remainder of the site.
2. Is the most effective in the short term and would have the least effect on the community, remedial workers, and the environment because of the limited dredging area and the relatively shorter performance period.
3. Would be implemented in the shortest period of time. Periodic costs will include long-term monitoring to ensure RAOs are consistently achieved.
4. Meets federal and state ARARs.
5. Is the most cost effective to implement.

9



What's Next



- Public comments on the Proposed Plan/Draft Remedial Action Plan (RAP) must be received or postmarked by **July 2, 2011**
- Record of Decision (ROD)/Final RAP planned for **Spring 2012**
 - All comments received will be addressed in the Responsiveness Summary portion of the ROD



10





Naval Station Treasure Island



Site 12

Draft Remedial Investigation Report Overview

Tony Konzen, Navy Remedial Project Manager

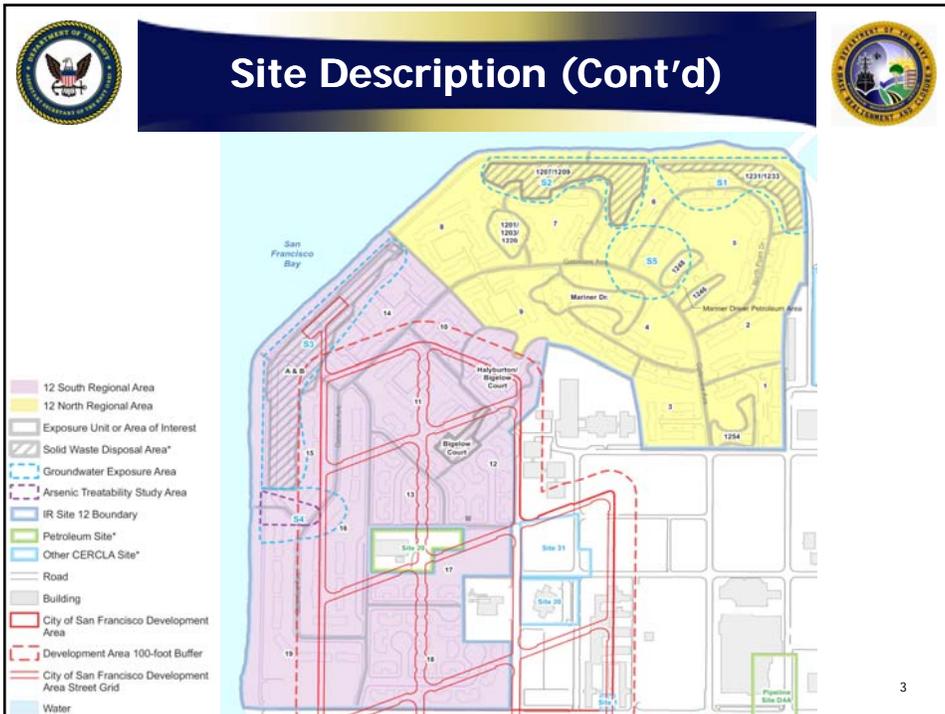
June 21, 2011
Restoration Advisory Board Meeting



Overview



- Introduction
- Discussed at April 2011 RAB Meeting:
 - ✓ Site History and Conceptual Site Model
 - ✓ Site Description
 - ✓ Previous Investigations
 - ✓ Human Health Risk Assessment (HHRA) and Screening Level Ecological Risk Assessment (SLERA) Process
- Nature and Extent Findings
- HHRA Findings
- Conclusions
- Recommendations
- Schedule



3

Nature and Extent of Contamination

- Exceedances of screening criteria (or ambient for metals) for determining nature and extent of contamination:
 - Soil
 - Total petroleum hydrocarbons (TPH)
 - Polycyclic aromatic hydrocarbons (PAH)
 - Pesticides
 - Polychlorinated biphenyls (PCB)
 - Metals
 - Dioxin toxicity equivalent quotient (TEQ)
 - Groundwater
 - Total TPH
 - Metals
 - Soil Gas
 - Volatile organic compounds (VOCs) - benzene and chloroform

4



Human Health Risk Assessment Key Elements



1. HHRA for Site 12 documents public health threats (“risk estimates”) based on potential, hypothetical exposure to chemicals detected in soil, groundwater, and soil vapor.
2. HHRA methodology for Site 12 established and agreed to with BCT in 2006; updated in 2009.
3. Separate risk estimates for each EU and AOI
4. Multiple types of risk estimates
 - a. Total, site, incremental, ambient
 - b. EPA toxicity criteria, Cal/EPA toxicity criteria



Human Health Risk Assessment Exposure Scenarios and Pathways

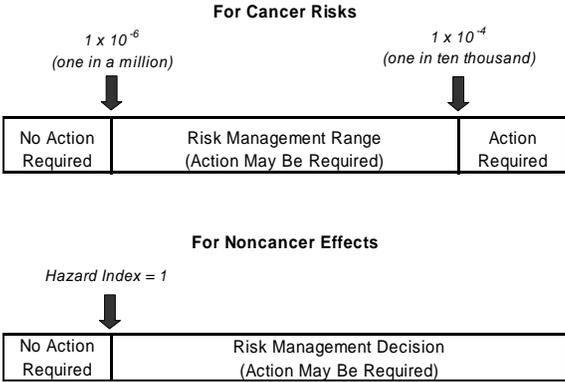


Medium	Pathway	Scenario				
		Current Residential (Child & Adult)	Future Residential (Child & Adult)	Future Industrial (Adult)	Future Construction (Adult)	Future Recreational (Child & Adult)
Surface Soil 0 to 2 feet bgs	Ingestion	✓ ¹	✓ ²	✓ ²		✓ ²
	Dermal contact	✓ ¹	✓ ²	✓ ²		✓ ²
	Inhalation - outdoor air	✓ ¹	✓ ²	✓ ²		✓ ²
Subsurface Soil 0 to 10 feet bgs	Ingestion		✓ ²	✓ ²	✓ ²	✓ ²
	Dermal contact		✓ ²	✓ ²	✓ ²	✓ ²
	Inhalation - outdoor air		✓ ²	✓ ²	✓ ²	✓ ²
Groundwater	Dermal contact - trench				✓	
	Inhalation - trench				✓	
Soil Gas	Inhalation - vapor intrusion	✓	✓	✓		

1 - Soil data set for current scenario based on samples from unpaved locations.
 2 - Soil data set for future scenarios based on samples from all locations (paved and unpaved).



Human Health Risk Assessment Risk Characterization



Lead: Compare EPCs to EPA and Cal/EPA criteria for residential and industrial land use.



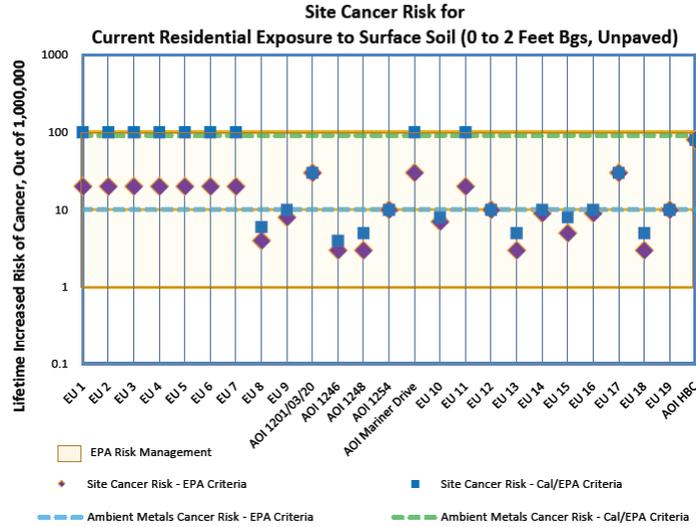
Human Health Risk Assessment Results for Soil Exposure



Exposure Area	MHRA Results for Soil ¹								Chemicals of Concern (COC)											
	Current Residential		Future Residential		Future Commercial/Industrial		Future Recreational		Future Construction		Inorganic Chemicals				Organic Chemicals					
	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Arsenic	Chromium ⁶	Lead	Manganese	Nickel	BAP	DPA/PA	PCBs	Pesticide	DDT/PCDD/TEQ
EU 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ACI 1261/1263/1265	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ACI 1246	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
ACI 1248	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
ACI 1264	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
ACI Marner Drive	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
EU 19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
ACI Polyhymon Egglese Court	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		



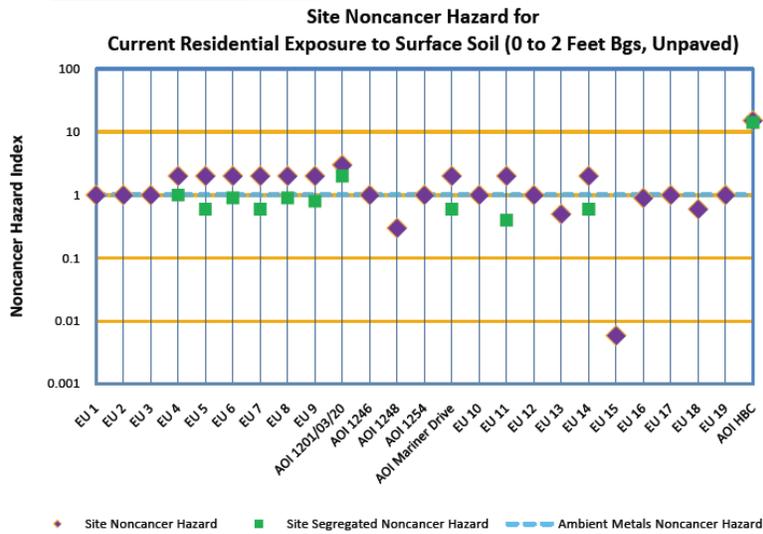
Human Health Risk Assessment Comparison of Site and Ambient Soil Risks



9



Human Health Risk Assessment Comparison of Site and Ambient Soil Risks



10



Human Health Risk Assessment Results for Groundwater Exposure



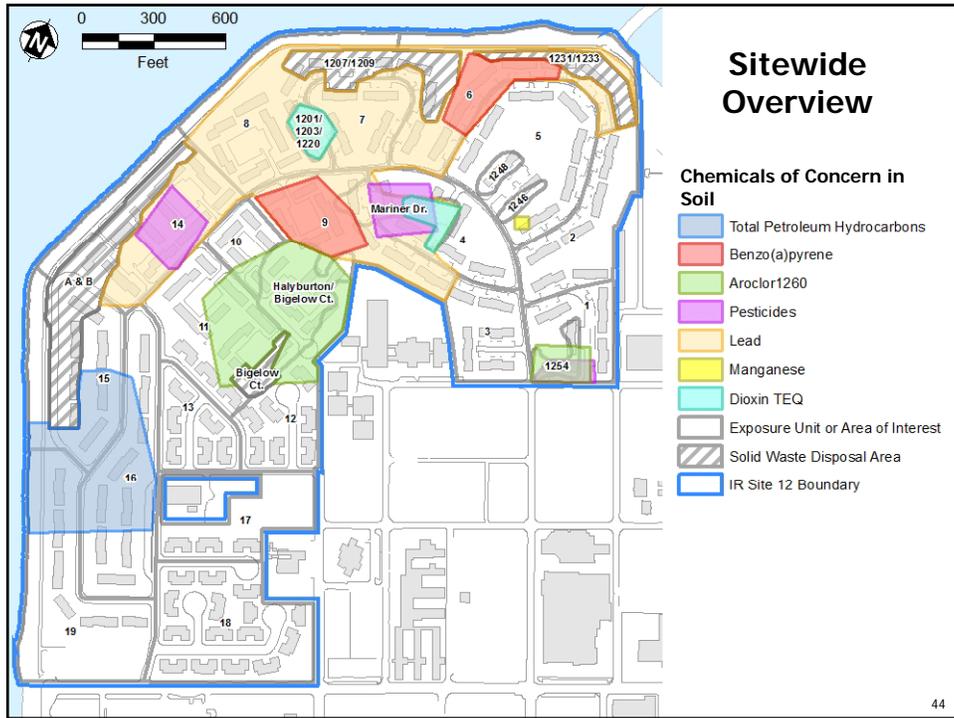
Groundwater Exposure Area	Soil Exposure Unit	HHRA Results for Groundwater *		Chemical of Concern (COC)
		Future Construction Worker		Arsenic
GW-S1	EU 2, EU 5, EU 6	●		✓
GW-S2	EU 6, EU 7, EU 8	●		✓
GW-S3	EU 14, EU 15	●		
GW-S4	EU 15, EU 16, EU 19	●		✓
GW-S5	EU 4, EU 5, EU 6, AOI 1248, AOI Mariner	●		✓
GW-NS1	EU 5, EU 6, EU 7, EU 13, EU 14, EU 16, EU 17, AOI Halyburton/Bigelow Court	●		



Human Health Risk Assessment Results for Soil Gas (Vapor Intrusion) Exposure



Exposure Area	HHRA Results for Soil Gas			Chemicals of Concern (COC)	
	Current Residential	Future Residential	Future Commercial/Industrial	Benzene	Chloroform
EU 1	●	●	●		
EU 2	○	○	○		
EU 3	●	●	●		
EU 4	●	●	●		
EU 5	●	●	●		
EU 6	--	--	--		
EU 7	--	--	--		
EU 8	○	○	○		
EU 9	○	○	○		
AOI 1201/1203/1220	--	--	--		
AOI 1246	--	--	--		
AOI 1248	--	--	--		
AOI 1254	--	--	--		
AOI Mariner Drive	●	●	●		
EU 10	●	●	●		
EU 11	●	●	●		
EU 12	●	●	●		✓
EU 13	●	●	●		
EU 14	--	--	--		
EU 15	●	●	●		
EU 16	●	●	●	✓	
EU 17	●	●	●		
EU 18	--	--	--		
EU 19	●	●	●		
AOI Halyburton/Bigelow Court	--	--	--		





Recommendations



Feasibility Study (FS) is recommended for all of Site 12.

RI Report recommendations include:

- SOIL, SOIL GAS, AND GROUNDWATER:
 - Continue monitoring at Building 1311/1313 Petroleum Area (EUs 15, 16 and 19); develop remedial alternatives for TPH and arsenic in the FS.
- SOIL:
 - Evaluate human health risk of NTCRA post-removal soil data at the 4 SWDAs
 - Further evaluation of pesticides in soil at southeast portion of AOI 1254

14



Recommendations (Continued)



SOIL (continued)

- Conduct further evaluation of PCBs (Aroclor 1254 or 1260) in soil at EU 9, AOIs 1254 and Halyburton/Bigelow Court
- Conduct further evaluation of dioxins (as 2,3,7,8-TCDD TEQ) in soil at EU 16, AOIs Mariner Drive 1201/1203/1220
- Evaluate remedial alternatives for soil in:
 - Site 12 North: EU 9, AOI 1201/1203/1220, AOI 1254, AOI Mariner Drive
 - Site 12 South: EUs 16, 17 and 19; AOI Halyburton/Bigelow Court

15



Recommendations (Continued)



SOIL (continued)

- No further investigation is recommended for the following EUs in Site 12 North: EUs 1 to 8 and AOIs 1246 and 1248
- No further investigation is recommended for the following EUs in Site 12 South: EUs 10 through 14 and EU 18

GROUNDWATER:

- Continue planned groundwater monitoring.
- Conduct additional groundwater monitoring in GW-S3 (SWDA A&B) once NTCRA completed in the area.
- Evaluate remedial alternatives for groundwater in exposure areas GW-S1, GW-S2, GW-S4, and GW-S5.
- No further investigation is recommended for groundwater at GW-NS1.

16



Schedule



- ✓ Draft submitted: June 10, 2011
- Review Comments due: July 13, 2011
- Responses to Comments due: August 10, 2011
- Internal Final due: September 9, 2011
- Final due: October 3, 2011

17



Draft Site 12 RI Report



Questions?

18

**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
June 2011 - November 2011**

Item	Document Title & Information	CTO/DO	INTERNAL DRAFT		DRAFT							RTC		INTERNAL FINAL		FINAL	Comments					
			Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Date Due	Agency Comments					Priority Level	Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due		Final to Agencies				
							DTSC	WATER BOARD	EPA	TIDA	RAB								OTHER			
Shaw Group																						
1	Site 32 Post Construction Summary Report for PCBs in Soil RPM: Danielle Janda PM: Pete Bourgeois	FZN1	05/11/10, 10/31/10	✓ ✓	02/21/11	✓	03/21/11	✓	04/20/11	✓	✓	✓	✓	✓	✓	05/18/11	✓	06/22/11	06/24/11	07/05/11	07/11/11	DTSC (4/13), EPA (4/13), WB (4/15), RAB (4/25), TIDA (4/29)
2	Building 233 Characterization, Remediation and Final Status Survey Work Plan RPM: Anthony Konzen PM: Pete Bourgeois	010	08/31/10, 09/30/10, 10/11/10, 03/11/11, 06/23/11	✓ ✓ ✓ ✓	11/25/10, 03/04/11, 03/16/11, 07/20/11	✓ ✓ ✓	08/03/11		08/31/11							09/14/11	09/21/11	09/28/11	10/05/11	10/12/11		
3	Site 24 Treatability Study Report (Phase II) RPM: Danielle Janda PM: Pete Bourgeois	FZN1	04/19/11	✓	05/04/11	✓	07/06/11		08/03/11							08/17/11	08/24/11	08/31/11	09/07/11	09/14/11		
4	Site 12 Final Status Survey Work Plan RPM: Anthony Konzen PM: Pete Bourgeois	010	08/11/10, 10/27/10, 03/18/11	✓ ✓ ✓	TBD		TBD		TBD							TBD	TBD	TBD	TBD	TBD	TBD	Draft delayed to collect background samples.
5	Sites 31/33 Remedial Action Work Plan (RAWP) RPM: Lora Battaglia PM: Pete Bourgeois	FZN9	10/15/10* 11/22/10** 01/10/11, 06/30/11	✓ ✓ ✓ ✓	10/29/10, 11/10/10, 7/14/11	✓ ✓	07/28/11		08/11/11							09/09/11	09/28/11	10/07/11	10/14/11	10/21/11	Internal Navy review of plan to continue following regulatory input on remaining scope of work.	
6	Site 12 Bigelow Court NTCRA Work Plan RPM: Anthony Konzen PM: Pete Bourgeois	FZN9	11/22/10, 12/23/10, 01/24/11	✓ ✓ ✓	12/14/10, 04/30/11, 06/01/11	✓ ✓	TBD		TBD							TBD	TBD	TBD	TBD	TBD	TBD	Work plan under Navy internal review.
7	Site 24 Treatability Study Work Plan (Phase III) RPM: Danielle Janda PM: Pete Bourgeois	FZN1	03/23/11	✓	04/07/11	✓	06/06/11	✓	07/07/11				X			07/18/11	07/31/11	08/07/11	08/21/11	08/28/11	EPA (6/16)	
8	Site 21 Soil Gas Investigation Work Plan RPM: Danielle Janda PM: Pete Bourgeois	:	06/13/11		06/27/11		07/08/11		08/07/11							08/22/11	08/29/11	09/05/11	09/13/11	09/20/11		

**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
June 2011 - November 2011**

Item	Document Title & Information	CTO/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	RAB							OTHER	Priority Level				
Tetra Tech EM Inc.																							
9	Site 24 PP/RAP	FZND	01/28/11	✓	TBD	TBD	TBD						TBD	TBD	TBD	TBD	TBD	On hold pending results of Phase III treatability study.					
	RPM: Danielle Janda																						
	PM: Jean Michaels																						
10	2010 Finding of Suitability to Transfer (FOST)	001	08/09/10	✓	09/02/10	✓	09/28/10	✓	11/03/10	✓	✓	✓	✓	✓	✓	✓	✓	TBD	DTSC (10/26), EPA (11/1), WB (11/8), TIDA (11/2). Final date is estimated, waiting for Site 25 closure				
	RPM: David Clark																						
	PM: Marcie Rash																						
11	Island Times Newsletter #17	001	08/31/10	✓	04/05/11	✓	04/12/11	✓	04/26/11	✓	✓	✓	NA	NA	05/14/11	✓	06/21/11	06/30/11	DTSC (4/25), EPA (4/26), TIDA (4/29)				
	RPM: Jim Sullivan																						
	PM: Marcie Rash																						
12	Site 33 Explanation of Significant Differences (ESD)	489	09/30/10*	✓	10/25/10*	✓	12/30/10	✓	01/31/11	✓	✓	X	✓	04/01/11	✓	04/15/11	✓	05/01/11	✓	05/11/11	✓	05/27/11	* Navy technical review ** Navy legal review DTSC (1/24), TIDA (2/4), WB (2/7)
	RPM: Lora Battaglia																						
	PM: Jean Michaels																						
13	FOST Addendum (to 2006 TI/YBI documents)	001	04/22/11	✓	TBD	TBD	TBD							TBD	TBD	TBD	TBD	TBD	TBD				
	RPM: David Clark																						
	PM: Marcie Rash																						
14	2011 Site Management Plan (SMP)	001	03/24/11	✓	04/15/11	✓	04/27/11	✓	05/27/11	✓	X	X	✓	06/24/11	07/24/11	07/27/11	08/10/11	08/24/11					DTSC (5/3), TIDA (5/26), EPA (6/2)
	RPM: David Clark																						
	PM: Marcie Rash																						
15	Site 32 Proposed Plan/Draft Remedial Action Plan	489	05/02/11	✓	05/16/11	✓	06/13/11	✓	07/11/11					08/08/11	09/05/11	09/12/11	09/19/11	10/03/11					
	RPM: Danielle Janda																						
	PM: Jean Michaels																						
Chadux Tetra Tech																							
16	Site 12 RI Report	049	03/02/11	✓	04/01/11	✓	06/10/11	✓	07/10/11					08/07/11	TBD	09/06/11	09/16/11	09/30/11					
	RPM: Anthony Konzen																						
	PM: Marcie Rash																						
17	Site 21 PP/RAP	083	04/09/10*	✓	05/09/10*	✓	12/16/10	✓	01/15/11	✓	✓	✓	✓	TBD	TBD	TBD	TBD	TBD					On hold pending soil gas invest. WB (12/28), TIDA/TICD (1/14), DTSC (1/14), RAB (1/16)
	RPM: Danielle Janda																						
	PM: Jean Michaels																						
18	Site 27 PP/RAP	084	11/10/10*	✓	12/29/10*	✓	02/10/11	✓	03/12/11	✓	✓	✓	✓	04/12/11	✓	04/26/11	✓	05/09/11	✓	05/19/11	✓	06/02/11	RAB (2/16), DTSC (3/2), WB (3/7), TIDA (3/11), BCDC (3/11), EPA (3/14)
	RPM: Lora Battaglia																						
	PM: Katie Henry																						
19	Well Removal Work Plan	044	10/22/10	✓	11/04/10	✓	12/10/10	✓	01/11/11	✓	✓	✓	✓	03/30/11	✓	NA	02/14/11	✓	03/29/11	✓	04/29/11	✓	Cmts rec'd WB (12/13), EPA (1/12), TIDA (1/12), DTSC (1/24)
	RPM: Tony Konzen																						
	PM: Yohji Ono																						

**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
June 2011 - November 2011**

Item	Document Title & Information	CTO/DO	INTERNAL DRAFT		DRAFT							RTC		INTERNAL FINAL		FINAL	Comments	
			Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Date Due	Agency Comments						Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due		Final to Agencies
							DTSC	WATER BOARD	EPA	TIDA	RAB	OTHER						
Trevet																		
17	Site 30 2010 LUC Inspection and Reporting	9002	04/05/11 ✓	04/18/11 ✓	05/03/11 ✓	06/02/11 ✓	X	X	X				06/09/11 ✓	NA	06/09/11 ✓	06/16/11 ✓	06/27/11	TIDA (5/31), DTSC (6/1), EPA (6/2), WB (6/6)
	RPM: David Clark																	
	PM: Greg Alyanakian																	
18	2010 Sites 6 & 12 Annual Groundwater Sampling Report	9002	02/23/11 ✓	04/08/11 ✓	05/11/11 ✓	06/11/11 ✓	X						08/01/11	TBD	08/08/11	08/15/11	08/22/11	EPA (6/2), DTSC (6/20)
	RPM: Tony Konzen																	
	PM: Greg Alyanakian																	
ERRG																		
19	Site 6 RI/FS Report	:	08/31/11	10/01/11	10/15/11	11/14/11							12/12/11	TBD	01/11/12	01/21/12	02/04/12	
	RPM: Tony Konzen																	
	PM: Phil Skorge																	

Abbreviations:

- ✓ Production or review of document is complete.
- X Received notification of no comments or comments deferred to other agency.

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.

- Bldg = Building
- Caltrans = California Department of Transportation
- CTO = Contract task order
- DHS = Department of Health Services
- DO = Delivery order
- DTSC = Department of Toxic Substances Control
- EU = Exposure unit
- HERD = Human Ecological Risk Division

- HSP = Health and safety plan
- LUC = Land use covenant
- NA = Not applicable
- 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
- Water Board = Regional Water Quality Control Board

**Naval Station Treasure Island
Navy Field Schedule
June 2011 - November 2011**

Item	Activity & Investigation Area	DTS #	Field Dates		Navy RPM	CTO/DO	Project Manager	Field Team Lead	Complete
Shaw									
1	Non-Time Critical Removal Action <i>Site 12</i>	Doc NA	Start: Finish:	02/26/07 TBD	Tony Konzen (619) 532-0924	010	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
2	Site 31 Remedial Action <i>Site 31</i>	Doc 5	Start: Finish:	TBD TBD	Lora Battaglia (619) 532-0968	FZN9	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
3	Building 233 Debris Screening / Final Status Survey <i>Building 233</i>	Doc 2	Start: Finish:	07/26/10 TBD	Tony Konzen (619) 532-0924	010	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
	Hot Spot Removal Action <i>Site 12</i>	Doc NA	Start: Finish:	06/07/11 06/09/11	Tony Konzen (619) 532-0924	010	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	✓
Chadux Tetra Tech									
	Monitoring Well Decommissioning <i>Basewide</i>	Doc NA	Start: Finish:	05/17/11 06/02/11	Tony Konzen (619) 532-0924	9002	Yohji Ono (510) 302-6301	Yohji Ono (510) 302-6301	✓
Trevet									
	Sites 6 and 12 Groundwater Sampling <i>Sites 6 and 12</i>	Doc NA	Start: Finish:	06/15/11 06/16/11	Tony Konzen (619) 532-0924	9002	Greg Alyanakian (858) 869-3110	Greg Alyanakian (858) 869-3110	✓

Abbreviations:

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

✓ 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.