

**MEETING MINUTES
RESTORATION ADVISORY BOARD
NAVAL STATION TREASURE ISLAND
19 December 2006
Meeting Number 127**

Community RAB Members in attendance:

Alice Pilram Nathan Brennan John Gee Dale Smith

Regulatory Agency, City and Navy RAB Members in attendance:

James Sullivan (Navy) Henry Wong (DTSC)

Other Agency, Navy Staff and Consultant Representatives in attendance:

Charles Perry Marcie Rash Bryan Chen
Byron Clamor Pete Bourgeois

RAB Support from ITSI:

Steve Edde Arvind Acharya Valerie Jensen, Court Reporter

Public Guests

Loraine Lee Marc McDonald Reginald Hairston
Taylor Stein

Welcome Remarks and Introductions

James Sullivan (Base Realignment and Closure [BRAC] Environmental Coordinator) opened the 19 December 2006 meeting at 7:10 p.m. at the Casa de la Vista (Building 271).

Mr. Sullivan welcomed those in attendance, and asked if the mailers were distributed correctly. Ms. Smith and Mr. Gee both stated the mailers were distributed to them. There were no changes or comments on the agenda so Mr. Sullivan moved directly to the next agenda item.

Public Comment and Announcements

Mr. Sullivan stated that there were two public comment periods included on the agenda to afford members of the public the opportunity to comment on the Navy's environmental program at Treasure Island (TI) and Yerba Buena Island (YBI). He added that the public is also welcome to comment during the course of the meeting. There were no comments or announcements so Mr. Sullivan moved directly to the next agenda item.

Field Activities Update

Mr. Sullivan introduced Pete Bourgeois, from Shaw Environmental & Infrastructure (Shaw E&I) to provide the update on the field activities. Mr. Bourgeois explained that Shaw is writing plans to do additional work at the two bioremediation areas, Site 21 (Youth Sailing Center) and Site 24 (former Dry Cleaning Facility at Building 99).

Shaw has completed field work for the arsenic study at Site 12 around Buildings 1325, 1311, and 1313. The study included installing a few wells as well as some direct-push borings near Perimeter Road. Shaw identified arsenic in groundwater, and as a result will be completing a bench scale test to look at technologies to address the arsenic in the groundwater.

In addition, Shaw has about 150 trucks delivering clean fill near Building 570, for the Site 12 remediation fieldwork.

Mr. Brennan requested a confirmation on the number of trucks and amount of clean fill being delivering to TI. Mr. Bourgeois replied that 150 trucks are delivering about 20 cubic yards each of clean fill daily.

Ms. Smith asked if arsenic was mobilizing because it was in contact with salt water. Mr. Bourgeois replied that arsenic is in the groundwater due to petroleum. They will be using a Shaw Knoxville lab to determine which is the best technology to address the situation. Mr. Bourgeois asked if there were any other questions.

Site 12 Removal Action Update

Mr. Sullivan stated that Jim Whitcomb, the Navy's project manager was unable to attend tonight's meeting, but that Mr. Bourgeois will provide an update. Mr. Bourgeois stated that a public information session took place on November 29 where residents and the public were invited to attend. During the meeting Shaw presented the preferred alternative for Site 12, Solid Waste Disposal Areas (SWDA). As a result, Mr. Bourgeois presented an abbreviated version of the slide show and distributed handouts.

Five alternatives are presented in the Engineering Evaluation/Cost Analysis (EE/CA). The preferred alternative that was chosen for the site was Alternative 3: deep excavation up to four feet in depth, except for hardscape (i.e. driveways along Westside Drive). The excavations will be backfilled with clean soil while the excavated soil will be disposed at an approved off-site landfill, and confirmation samples will be taken. Mr. Bourgeois displayed a figure illustrating the truck route map. He stated that Shaw has noticed that most traffic on TI was in the interior of the island, therefore for the Site 12 work the trucks are routed to the outside roads. As a result, Avenue N, Avenue of the Palms and Perimeter Road are the main thoroughfares for the 18-wheel trucks, 20-cubic-yard dump trucks. For the excavations near 1207 and 1209 on Bayside Drive since the excavation volume is not large, only 5-cubic-yard dump trucks will be utilized and are not expected to impact the traffic flow.

Mr. Bourgeois then showed a figure illustrating all of the excavations and the areas where the residents will be impacted. He then proceeded to discuss the individual excavations and impact to the residents. For the 1231/1233 and Westside Drive excavations the soil will be transported onto Perimeter Road. This was completed in the past with the previous Building 1133 excavation and seemed to have little or no impact on the residents. As for SWDA A and B, the Westside Drive Area, since the impacts for this excavation are at the Building 1325 parking area, Shaw will gate off the excavation area. As a result, Building 1325 residents will not be able to use their parking area for about a two-month time period. For the Building 1207/1209 area, Bayside Drive, Shaw will restrict parking all along the street on both sides to allow the 5-cubic-yard dump trucks to pass. Mr. Sullivan stated that only parallel parking along Bayside will be affected and not the individual parking stalls, with a few exceptions where the entire road width will be closed.

Ms. Smith asked where the residents would park. Mr. Bourgeois stated that the John Stewart Company is working out a plan with the residents for overflow parking. At SWDA 1231/1233

the impacts are small and there will be a small parking inconvenience but that most of these buildings were unoccupied. Mr. Stein asked which street this excavation will be located on. Mr. Bourgeois replied Northpoint Drive. Ms. Smith asked what was the reason why these buildings are not occupied. Mr. Sullivan replied that in the Finding of Suitability to Lease and various investigations the Navy identified particular areas that the Navy was not able to lease at that time. In January 2001, some of those areas were physically fenced off. Ms. Smith asked if this was due to contaminants. Mr. Sullivan replied that it was and that the data was based on the Remedial Investigation (RI) and the soil data that was collected.

Ms. Lee asked if the residents are still allowed to park at Buildings 1231 and 1229. Mr. Bourgeois stated that residents can still park in the front of the buildings. The reason why parking is limited at Building 1233 is because the equipment needs room to work.

Mr. Stein asked how were the excavation footprints were designed. Mr. Bourgeois stated that during the EE/CA process all of the sample data was studied and then a footprint was derived from that data. He added that during the excavation process confirmation samples would be taken, and therefore the excavation footprints may change. There was some discussion between Mr. Stein and Mr. Bourgeois about the process of confirmation sampling and the excavation footprint design. Mr. Bourgeois also stated that the BRAC Cleanup Team (BCT) has specific screening criteria for lead and dioxins which would affect these excavation footprints. Mr. Sullivan reiterated that the excavation footprints were designed based on past sample data and as a result, additional confirmation samples will be taken to confirm the concentrations as well as determine the final excavation boundaries.

Mr. Stein had additional questions concerning the excavation symbols and where the fencing would be placed. Mr. Bourgeois showed on the figure where the temporary fencing lines will be. In addition, he stated that all of the excavation footprints would be fenced off from the public. Mr. Stein asked specifically about the sailing board ramp being closed for 7 months due to excavations. Mr. Bourgeois stated that quite a few 18-wheel trucks will be within that area, plus that area will be used for truck loading, as well as a starting point for trucks traveling along Perimeter Road. Mr. Stein pointed out on the figure about an alternative road. Mr. Bourgeois replied that area was all grass and that Shaw cannot tear that area up since there are residents. Mr. Stein stated that Shaw will be tearing the whole place up anyway. Mr. Bourgeois stated that they will only be excavating within the fence line. Mr. Sullivan stated that there will be a lot of trucks along Perimeter Road. Mr. Bourgeois stated that Shaw is trying to limit the amount of trucks using Perimeter Road; therefore the area in question near the launch ramp needs to be used for loading, turning around, etc. Mr. Stein asked if the whole area will be closed to pedestrians. Mr. Bourgeois stated that was correct. Mr. Stein asked what would happen if there's an emergency and the Coast Guard and Sheriff cannot use the boat ramp to launch. Mr. Bourgeois stated that Shaw is working with them. Mr. Sullivan stated that they are also working with the fire and police departments as well. Additional discussions took place concerning closing the boat ramp and if 5-cubic-yard trucks could be used instead of 18-wheelers. Mr. Bourgeois stated that 18-wheelers need to be used since they can carry 20-cubic-yards instead of 3-4 yards of soil, and that would increase the time and effort for these excavations. If the truck route was to change there will be more impact on the residents and landscaping at TI.

Mr. Bourgeois stated in January 2007 the Action Memo/Interim Remedial Action Plan will be finalized and that preparatory work will begin in January. Shaw will be notifying the residents using a two-week, 48-hour, and 24-hour notice. The completion of work should occur around August 2007 time frame. The EE/CA had a public comment period from November 11 through November 29, with the preferred cleanup alternative information session on December 27. The Draft Action Memo/Interim Remedial Action Plan is in its public comment period. Ms. Smith asked what exact date will the AM/IRAP be submitted. Mr. Perry stated he believed it would be January 29. Mr. Wong stated the public meeting will be scheduled on January 17, Wednesday at the Casa. Mr. Sullivan stated that those on the RAB technical subcommittee will be getting copies of the Draft Action Memo on or about the December 27, just like any other regular technical document. There was some discussion how large the document would be and if the RAB members could attend the public hearing. Mr. Sullivan stated it is more than a few pages and it will be in draft form since it's fulfilling the requirements for both the federal and state. A public notice will be published in the Chronicle. Mr. Wong stated that a fact sheet will be sent out this week which would provide details of the public meeting and how to comment. Mr. Sullivan stated the next item would be the Draft Site 33 RI Report.

Draft Site 33 (Waterline Replacement Area) Remedial Investigation (RI)

Mr. Sullivan stated that in the previous meeting the Navy had thought the Site 33 RI would be submitted, but instead it will be submitted prior to the February meeting instead. Mr. Sullivan introduced Bryan Chen. Mr. Chen stated that he was from Tetra Tech EM Inc, (Tetra Tech) and was filling in for Kevin Hoch who is the project manager.

Mr. Chen showed a figure illustrating the location of Site 33 to the audience. Site 33 is located on the southeast portion of the island. It is approximately 5 acres across with 3 buildings still present on the site. In addition there are small debris areas along Avenue I and on Fourth Street. Site 33 includes the Lake of the Nations which was present on the site for about 2 years before it was filled. The Lake of the Nations was a reflection pond used in the 1939-1940 Golden Gate International Exposition. Portions of Site 33 were later used as Navy barracks, a police station, and administrative offices. Currently, the site is covered by streets, parking areas, and a large grass area along with the 3 existing buildings. Buildings 92, 40, and 107 currently are on the site, but are unoccupied.

In 1988, a Preliminary Assessment and Site Investigation was conducted in the area that would become Site 33. The results identified an abandoned fuel line along Fifth Street and recommended further investigations. Several investigations occurred as a result which included: Inactive Fuel Line, Fuel Pipeline Removal for Pipelines D2 and F2, and finally the Building 530 Fuel Pipeline Removal in 2002. For D2, F2, and Building 530 pipelines they were all either removed or closed in place and confirmation samples were collected after each investigation. In 2003, burnt wood and debris during the fuel pipeline removals, as well as notes found on as-built waterline figures that identified areas of burnt materials, triggered an exploratory trenching and subsurface investigation. Finally, in August 2005 a groundwater investigation was conducted that consisted of installing and sampling four direct-push wells. This investigation showed that diesel, motor oil, benzo(a)pyrene, arsenic, and lead in soil were above the screening criteria in the area around the Building 530 fuel pipeline. For

groundwater, metals (copper, lead, mercury, nickel, silver, and zinc) were above the screening criteria and ambient levels. All of these samples were analyzed for volatile organic compounds, semivolatile organic compounds, total petroleum hydrocarbons, pesticides, polychlorinated biphenyls, as well as metals.

With the results of these investigations a screening level ecological risk assessment (ERA) was conducted. The study found no terrestrial receptors at Site 33. Even though there were chemicals that were detected that could be of concern, they were mostly identified in groundwater and these concentrations were determined to be a result of the suspended soil particulates in the grab samples. Therefore, these concentrations are not considered mobile and would not migrate to the bay. Therefore, the ERA concluded that groundwater at Site 33 does not pose an unacceptable risk to aquatic receptors offshore of TI. However, a Baseline Tier 1 Screening Level Ecological Risk Assessment (SLERA) will also be conducted.

In addition to the ERA a human health risk assessment (HHRA) was conducted at Site 33. The HHRA was conducted with methods consistent with Environmental Protection Agency (EPA) and Department of Toxic Substances Control (DTSC) guidelines as well as Navy policy. The HHRA used both soil and groundwater samples at the site. Two methods were used in the selection of chemicals of potential concern for the Risk Assessment: Method 1 (Navy and EPA based risk assessment method) and Method 2 (DTSC's preferred method). Method 1 uses an essential nutrient screen, frequency of detection, ambient background and risk based criteria screening. Method 2 includes an essential nutrient screen and the ambient background. The exposure assessment identified the complete exposure pathways for the commercial/industrial workers, adult and child residents, construction workers, and the recreational visitor. The exposure pathways were through dermal contact and ingestion of soil, inhalation of particulates and chemicals vapors. For groundwater, the pathway was direct contact for the construction worker and the inhalation of chemical vapors for the other human receptors.

For soil, only two case scenarios were studied: exposure to surface soil (0-2 feet below ground surface) and combined surface and subsurface soil (surface soil all the way down to groundwater). The exposure pathways looked at were: dermal contact, incidental ingestion of soil, inhalation of particulates, and inhalation of outdoor chemical vapors. Two pathways were investigated for groundwater: dermal contact for construction workers and inhalation of outdoor chemical vapors.

The risk characterization combined all the previous steps and the chemicals of potential concern (COPC) selection to estimate the potential cancer risk and the non-cancer adverse health effects. The risk management/cancer risk range was defined as 10^{-6} to 10^{-4} . The non-cancer hazard index was defined as a threshold of 1.

Based on preliminary results from the HHRA, Tetra Tech found that the cancer risks for current utility workers is within the risk management range while the hypothetical future residents, commercial/industrial work, and construction work are either below or within the risk management range. For noncancer effects the hazard index is well below 1 for the current utility worker and hypothetical future residents.

In addition, lead was evaluated separately by modeling the blood-lead results, which predicts blood-lead concentrations for the hypothetical adult and child resident, and comparison with a value of 10 micrograms per deciliter, i.e. the 99th percentile. The evaluation indicated that modeled lead concentrations were above 10 micrograms per deciliter and resulted in an elevated risk for the future hypothetical resident, construction worker, and commercial/industrial worker receptors.

The HHRA concluded that four chemicals in soil drove the risks: arsenic, lead, benzo(a)pyrene, and dioxin. The preliminary HHRA and ERA concluded that the nature and extent of contamination at Site 33 has been characterized and the soil and groundwater do not pose an unacceptable risk under current land use conditions, but for future use scenarios the risks are based primarily on arsenic and lead. If the HHRA indicates an unacceptable site risk, a Feasibility Study should be conducted to evaluate the Remedial Alternatives that would ensure protection of human health if the area is developed for residential use or accessed for construction activities. Mr. Chen asked if there were any questions. There were none.

Building 233 Draft Radiological Survey

Mr. Sullivan announced the next technical item was the Building 233 Draft Radiological Survey and introduced Mr. Bourgeois. He mentioned that Shaw sent out a survey report to the agencies.

Building 233 was a Navy Radiological Training School in the late 40s and 50s. There was a spill of 40 milligrams of radium sulfate powder in January of 1950. The Navy completed a decontamination process which was to the current standards of the time and guaranteed operational clearance for reuse in April 1950. As a result, the building was reused after the decontamination process.

A work plan was drafted in 2004. The Department of Health Services (DHS) commented on the characterization of the walls and ceilings to evaluate them under the painted surfaces, evaluate paint scrapings with laboratory analyzes and scan for alpha particles. Scanning for alpha particles is ineffective on painted surfaces; therefore Shaw researched other methods of detection. The Navy's objectives of the survey was to determine contamination that was remaining on walls and ceilings, under paint, take paint samples, and gather instrument and material background data per the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM). In 2006, Shaw conducted the fieldwork by assessed residual alpha and beta-gamma radiation on walls and ceiling in selected rooms and hallways, painted surfaces and underlying wallboard, collected total radioactivity measurement by direct-read instruments, completed swipe sampling and direct reading of the swipes and confirmation samples of paint and wallboard material for the laboratory analysis for radium-226. Mr. Bourgeois showed pictures that illustrated direct reading, scanning of the walls, the grid patterns on the walls, ceilings, and doorways.

After Shaw removed the floor surfaces and covering, all but two locations, one at the south end of the first floor hallway baseboard material, and the concrete floors in the men's restroom, were within background range. Residue was found in five of the thirteen rooms but below the release limits. The report is currently in review with the RAB and agencies.

For future work, Shaw is waiting for comments from DHS, the RAB, and other agencies. A scoping survey for the drains is being proposed. Therefore, a revised final status survey work plan with comments and a final status survey will be completed, in accordance with MARSSIM, to locate and remove any building materials that exceed the limits and release the building for unrestricted use. Mr. Bourgeois asked if there were any questions.

Ms. Smith asked what "MARSSIM" was. Mr. Bourgeois replied that it is a manual that states how radiological surveys are completed. There are different classes (Class I, II, and III) that dictate how stringent the radiological survey will be. A Class I survey will cover every surface (floor, ceiling, walls, every inch of the floor, etc) while Class II will do a percentage of the surface areas, and finally Class III will do even less of a percentage than Class II. Ms. Smith asked if radiation was a federal policy issue. Mr. Bourgeois stated that this work was managed by the Navy's Radiological Affairs Support Office (RASO). RASO dictates the guideline for closures and DHS has accepted these guidelines as well. Ms. Smith asked if the radiological survey was a Class III. Mr. Bourgeois replied it was actually a Class II, which was very conservative given that the building was cleaned up in the 1950s and it was in fairly good shape. Mr. Sullivan asked if there were any other questions or comments. There were no questions. Mr. Sullivan announced the next agenda item.

2006 Roundup and 2007 Preview

Mr. Sullivan introduced Marcie Rash from Tetra Tech to provide the 2006 Roundup and 2007 Preview of the overall program. Ms. Rash reported the following roundup of fieldwork and document submittals:

CERCLA Program Fieldwork

1. Indoor air sampling at Building 1;
2. Soil and soil/gas sampling in Halyburton Court, Sites 12, 10, and 32; and
3. Semi-annual groundwater sampling at Site 12.

Petroleum Program Fieldwork

1. Well demolition at Sites 6, 25, D1-B, and Building 1; and
2. Quarterly sampling of groundwater at Sites 6 and 25.

Transfer Program Fieldwork

1. Lead-based paint abatement at Quarters 2 through 7, and Buildings 240, 83, and 61; and
2. Lead-based paint reevaluation at housing units on YBI.

Miscellaneous Sampling Investigations

1. Step-out sampling at the Battery Site;
2. Asbestos Abatement at Buildings 293, 355, and 425; and
3. PCB sampling in FOSET property.

CERCLA Program Finalized Documents

1. Site 12 Human Health Risk Assessment Work Plan, setting up the protocol for the RI;
2. EE/CA for the Solid Waste Disposal Areas on Site 12;
3. Site 30 RI and FS;

4. Site 31 RI;
5. Proposed Plans for Sites 9 and 10

Petroleum Program Finalized Documents

1. Closure report for Sites 6 and 25.

Transfer Program Finalized Documents

1. FOST for parts of TI;
2. FOST for parts of YBI;
3. Historical Radiological Assessments;
4. Environmental Closeout Strategy and schedules;

Community Relations Finalized Documents

1. Updated the Community Relations Plan;
2. Four newsletters with mailings to 1100 people;
3. Fact sheet for Sites 30 and 31
4. Fact sheet explaining Site 12 history;
5. Fact sheet contemplating EE/CA;
6. Public meeting concerning Sites 9 and 10 Proposed Plan
7. Public meeting concerning EE/CA;
8. General fact sheet;

Upcoming 2006 documents

1. Site 12 Action Memo;
2. Site 31 FS;
3. Site 21 RI report;
4. Removal Action Work Plan for the Solid Waste Disposal Areas;
5. Building 233 Survey report;
6. White paper for Site 27 to determine the lead shot screening level for the investigation;
and
7. Tier 1 Screening Level Ecological Risk Assessment for Sites 6, 12, 24, 30, 31, 32, and 33.

2007 Preview

Ms. Rash reported the upcoming documents and fieldwork for 2007 are as follows:

Documents

1. Site 6 RI report;
2. RI and FS for Site 8;
3. RI and FS for Site 28,
4. RI and FS for Site 29;
5. Record of Decision for Sites 9 and 10;
6. Site 11 RI report;
7. Technical Memorandum of the results from the soil and soil gas/indoor air investigation at Halyburton Court;

8. EE/CA for additional removal at Halyburton Court;
9. Site 21 RI and FS report;
10. Combined RI/FS for Site 24;
11. Sampling and Analysis for Site 27 for additional investigation of the sediment within the first 150 feet of the shoreline;
12. Proposed Plans for Sites 30 and 31;
13. RI and FS reports for Sites 32 and 33; and
14. Summary Report for the PCB investigation in the FOSET parcels.

Fieldwork

1. Removal Action at the Solid Waste Disposal Areas;
8. Site 12 Groundwater Arsenic Pilot Study ;
9. Possible Site 12 backyard sampling, pending the calculations for the HHRA;
10. Treatability Studies at Sites 21 and 24;
11. Sediment Investigation at Site 27;
12. Annual and quarterly groundwater monitoring at Sites 6, 12, and 25;
13. Remedial Action and confirmation sampling at Site 25;
14. Potential remedy of PCB detections as a result from the FOST and FOSET PCB sampling event; and
15. Radiological Surveys in the sites where the HRA had identified.

Ms. Rash stated that the Navy hopes to close out Sites 6 and 25 under the petroleum program and possibly Sites 9 and 10, after that Record of Decision has been finalized.

Mr. McDonald asked what is the schedule for the Halyburton Court EE/CA. Ms. Rash stated that this document was not on her schedule, since it isn't occurring within the next six months. Ms. Rash stated that the EE/CA and Action Memo is planned to start in April/May 2007. As a result, that removal action will not happen until later in the year, or in 2008. Mr. Sullivan asked if there were any questions or concerns. There were none. He announced the next agenda item.

Upcoming Documents and Field Schedule

Documents

Mr. Sullivan then asked Marcie Rash to provide an update on Documents and Field Schedule. Ms. Rash briefly defined the color coding on the handout. Ms. Rash reported the following schedule of document submittals:

1. Technical Memorandum for the Lake of the Nations footprint is expected to be finalized at the end of January;
2. Site 21 RI report is expected to be issued final on February 2;
3. Tier 1 SLERA is expected to be issued final on January 29;
4. Site 31 FS report is expected to be issued final on January 31;
5. Site 32 RI report will be submitted, with comments due January 28;
6. Site 27 Lead Shot Field Screening Level White Paper is expected to be finalized January 13;
7. Site 33 RI report is expected to be issued final on February 19;
8. Site 12 Action Memorandum was issued; comments are expected due by January 29;

9. Site 12 EE/CA was submitted final December 27;
10. Sites 9 and 10 Record of decision will be submitted draft on February 15;
11. Volume 12 newsletter will be submitted December 21st or 22nd;
12. Building 233 Survey Report was submitted draft and the comments are due by January 5, and it will go final January 29; and
13. Site 12 Removal Action Work Plan will be submitted draft on January 15th, and it will go final January 29.

Field Schedule

Ms. Rash reported the upcoming field activities for the next two months are as follows:

1. 3rd quarter groundwater sampling at Petroleum Sites 6 and 25 starting on January 11;
2. Arsenic bench scale test at Site 12 on December 11 through 21st;and
3. PCB indoor air sampling at Halyburton Court.

October 2006 Meeting Minutes

Mr. Sullivan opened the floor for discussion of the draft October meeting minutes. There was discussion between Ms. Smith and Mr. Sullivan concerning the length and format of the meeting minutes. Ms. Smith requested that they be redone and shortened. Mr. Sullivan agreed.

Co-Chair Announcements

Mr. Sullivan turned the floor over to Ms. Pilram. Ms. Pilram stated that she didn't have any announcements and asked if any other members did. There were none. Mr. Sullivan moved onto the next agenda item.

BRAC Cleanup Team Update

Mr. Sullivan explained that the BCT meetings were still being held once a month, and two meetings occurred since the last RAB meeting. The November meeting discussed the Site 12 EE/CA and Action Memo. In addition, there was a discussion on how to move forward with the RI for Sites 8, 28, and 29, especially Sites 8 and 29 which are no longer Navy property, but are on Caltrans property. He stated that the Navy is still moving ahead to complete the RI and is working with Caltrans regarding work that Caltrans has done to date as well as any future work relative to the completion of the new bridge and how that will affect the completion of the RI report. Ms. Smith asked whether Caltrans had been keeping a record of their activities on the site. Mr. Sullivan replied that Caltrans documents everything which includes collecting environmental data and they have all of the Navy's documents to date. He also stated that the Navy meets regularly with Caltrans. Ms. Smith asked if Caltrans knew specific information about their activities such as: how many inches did they remove, what were the dimensions of the removal, where was it located, and so on. Mr. Sullivan replied that Caltrans documents all the activities that are completed and will continue to coordinate with the Navy on any future work and integrating their information into the Navy's RI report. Mr. Sullivan stated that Site 28 is not affected by Caltrans work since it is on current Navy property and is not part of the new bridge construction. In the November meeting, Mr. Sullivan also stated that they had discussed Building 1 PCB work which includes cleaning and coating in the utilities vault. This

work will occur in the early part of 2007. The Navy is coordinating with the San Francisco Public Utilities Commission since expected electrical outages would occur at Building 1 and adjacent buildings.

The December BCT meeting included a discussion about the Site 12 EE/CA and Action Memo and a discussion regarding vapor intrusion modeling and how it related to the investigation reports for Site 12 (Halyburton Court area) and other sites. In addition, Mr. Sullivan stated that they discussed the Response to Comments on the Site 31 FS. Following the December BCT, a Site 31 Proposed Plan scoping kick off meeting took place.

The next BCT meeting would have been scheduled for the first Tuesday on January 2nd, but because of the New Year's holiday the next BCT meeting was scheduled for Tuesday, January 9th. Mr. Sullivan asked if there were any questions. There were none. He introduced the new DTSC Project Manager, Mr. Henry Wong.

Other Public Comment and Announcements

Nathan Brennan stated that the Citizen's Advisory Board (CAB) meeting was held the first of the month with TI Development Authority (TIDA), the development authority. The Development Disposition Agreement (DDA) has gone forward to the supervisors, and their committees are reviewing it, then the full Board will vote on it. As a result, there was nothing to review at the meeting and the December meeting was cancelled. Mr. Brennan stated that once the supervisors approve the DDA, then they will work on an agreement with the contractor and developer as well as the Navy. Mr. Sullivan asked if the DDA was the next step beyond the term sheet. Mr. Brennan replied that the term sheet is the DDA at this point. Mr. Sullivan stated that he had watched a subcommittee meeting and thought that there was a preliminary approval. Mr. Brennan replied that a subcommittee meeting did occur on December 6th with the full Board meeting on the 12th. Ms. Smith stated that she believed it was approved at the supervisor's meeting. Mr. Brennan replied yes.

Future Meeting Agenda Items

Mr. Sullivan opened the floor for future agenda items, adding that they would include whatever is topical if there were no suggestions. He reminded those in attendance that the next RAB conference call is scheduled for Wednesday, February 7. Mr. Brennan and Ms. Smith requested that they would like a report on the air sampling at Halyburton court as well as an update on the fieldwork at Site 12 at the next RAB meeting.

Closing Remarks/End of Meeting

Mr. Sullivan stated the next RAB meeting is scheduled for February 20. The conference call is scheduled for February 7. The call-in number and participant code were included on the agenda. The next BCT meeting was scheduled for November 7. He then thanked everyone for attending and brought the meeting to a close. Mr. Sullivan adjourned the meeting at 8:35 p.m.

December 2006 Handouts

- Revised Engineering Evaluation/Cost Analysis, Solid Waste Disposal Areas, Site 12, Old Bunker Area
- Data Gaps Investigation of Battery Site at Yerba Buena Island

- Document Tracking Sheet
- Navy Field Schedule



Draft Remedial Investigation Report Installation Restoration Site 33 Waterline Replacement Area

December 19, 2006
NAVSTA Treasure Island
RAB Meeting



Outline

- Purpose of the Remedial Investigation (RI)
- Site History
- Investigation History and Results
- Ecological Risk Assessment
- Human Health Risk Assessment
- Conclusions
- Recommendations

Purpose

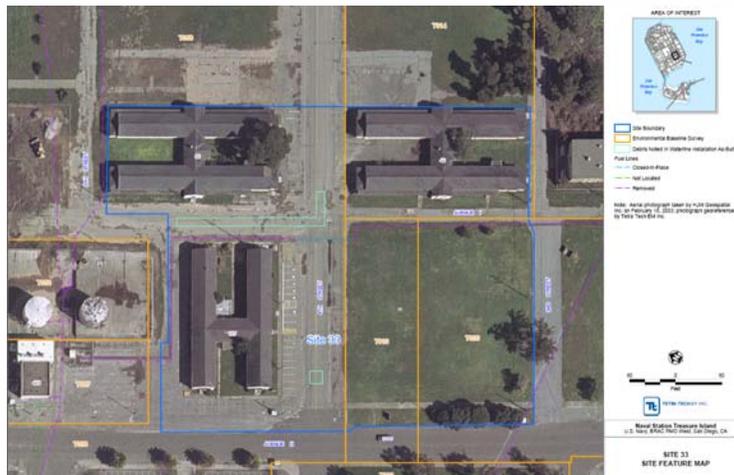


- The purpose of this remedial investigation (RI) as stated in U.S. Environmental Protection Agency (EPA) guidance under the Comprehensive, Environmental Response, Compensation, and Liability Act (CERCLA) is to:
 - “serve as the mechanism for collecting data to characterize site conditions, determine the nature of the waste, and assess risk to human health and the environment”
- If determined necessary during the RI, the results will be used to “evaluate the potential performance and cost of treatment technologies” in a Feasibility Study (FS).

Site 33 Location



Site 33 Features



Site 33 History



- Included a portion of a shallow reflecting pool known as the Lake of Nations during 1939 Golden Gate International Exposition
- In 1941 the “reflecting” pool was filled in and the Site 33 portion was used for barracks
- Other uses of the buildings included a police station and administrative offices
- The site is mainly covered by streets, parking areas, and a large grass field but includes Buildings 92, 40, and 107
- The buildings are currently unoccupied

Site 33 Investigative History



- 1988 Preliminary Assessment/Site Investigation
 - Identified the abandoned fuel line along 5th Street for further study
- 1994 Inactive Fuel Line Investigation
- June 1997 through April 1998 Fuel Pipeline removal (D2 and F2)
- August 2002 Building 530 Fuel Pipeline Removal
- 2003 Exploratory Trenching and subsurface investigation (Data Gaps Investigation)
- August 2005 Groundwater Investigation

Site 33 Soil Results



- Chemicals detected in soil above field screening criteria and ambient levels (where applicable) included:
 - Diesel and Motor oil and Benzo(a)pyrene (Building 530 fuel pipeline removal area)
 - Metals (arsenic and lead)
 - Dioxin

Site 33 Groundwater Results



- Chemicals detected in groundwater above screening criteria and ambient levels (where applicable) included:
 - Metals (copper, lead, mercury, nickel, silver, and zinc)

Screening Level Ecological Risk Assessment



- Because the majority of the site is covered by asphalt, no significant mobile terrestrial habitat exists. Mobile terrestrial receptors were not evaluated because exposure pathways are incomplete. A Basewide Tier 1 screening-level ecological risk assessment (SLERA) is currently in progress.
- SLERA for the RI focused on groundwater chemicals, which have the potential to migrate and may impact aquatic receptors in the Bay.
 - Although chemicals of potential ecological concern were identified in groundwater they were determined to be the result of suspended soil particulates in the grab groundwater samples and not considered mobile and therefore would not migrate to the Bay.
- Conclusion: groundwater at Site 33 does not pose an unacceptable risk to aquatic receptors offshore of TI.

Human Health Risk Assessment



- Conducted baseline human health risk assessment (HHRA) to estimate potential lifetime cancer risks and adverse noncancer health effects associated with site-related activities at Site 33
- Methods are consistent with EPA and DTSC guidelines and Navy policy
- HHRA is based on soil and groundwater data collected from 1992 to 2005
- Evaluated hypothetical future reuse scenarios

COPC Selection Methodology



- Identify detected chemicals of potential concern (COPC) that are most likely associated with site-related health risks:
 - Method 1 (Navy / EPA based)
 - Essential nutrient screen
 - Frequency of detection screen
 - Ambient background screen
 - Risk-based criteria screen
 - Method 2 (DTSC preferred)
 - Essential nutrient screen
 - Ambient background screen

Exposure Assessment



- Identify most likely exposed human receptors and complete exposure pathways
 - Potentially exposed human receptors
 - Commercial/industrial worker
 - Adult/child residents
 - Construction worker (also protective of utility workers)
 - Recreational visitor (qualitative evaluation)
 - Exposure Pathways
 - Soil – surface soil (0 to 2 feet below ground surface [bgs]), combined surface and subsurface soil (0 feet bgs to groundwater)
 - Dermal contact
 - Incidental ingestion of soil
 - Inhalation of particulates
 - Inhalation of outdoor chemical vapors
 - Groundwater
 - Dermal contact (construction workers only)
 - Inhalation of outdoor chemical vapors

Risk Characterization



- Combines previous steps; COPC selection, Exposure Assessment, and Toxicity Assessment to estimate potential cancer risks and noncancer adverse health effects:
 - 1×10^{-6} to 1×10^{-4} cancer risk management range
 - Noncancer hazard index (HI) threshold of 1

Preliminary Results of HHRA



- The cancer risks for **current utility workers** is within the risk management range (1×10^{-6} to 1×10^{-4})
- Cancer risks to **hypothetical future residents, commercial/ industrial workers, and construction workers** are below or within the risk management range (1×10^{-6} to 1×10^{-4})
- Noncancer HIs for **current utility workers** are below 1
- Noncancer HIs for **hypothetical future residents and commercial/industrial workers, and construction workers** are below 1

Preliminary Results of HHRA (Continued)



- Potential risk drivers included arsenic, lead, Benzo(a)Pyrene, and dioxin
- Lead concentrations in soil result in an elevated risk for future hypothetical resident, construction worker, and commercial/industrial worker receptors

Conclusions



- The nature and extent of contamination at Site 33 has been fully characterized.
- Based on the results of the human health and ecological risk assessments, soil and groundwater do not pose an unacceptable risk under current land use conditions.
- For future use scenarios, the risk is based on the following chemicals:
 - Arsenic and Lead

Recommendations



- If the final HHRA indicates an unacceptable site risk, a Feasibility Study should be conducted to evaluate remedial alternatives that would ensure protection of human health if the area is developed for residential use or accessed for construction activities.



Questions ??



2006 Roundup

Environmental Cleanup Program Activities

December 19, 2006
NAVSTA Treasure Island
RAB Meeting

2006 Accomplishments



Field Work

CERCLA

- ✓ Indoor Air Sampling - Building 1
- ✓ Soil and Soil Gas Sampling - Halyburton Court, Site 12
- ✓ Sites 10 and 32 Additional Investigation
- ✓ Semi-annual Groundwater Sampling at Site 12

Petroleum

- ✓ Groundwater Monitoring Well Demolition at Sites 6, 25, D1-B, Building 1
- ✓ Quarterly Groundwater sampling at Sites 6 and 25

2006 Accomplishments



Field Work (Continued)

Transfer

- ✓ Lead-based Paint (LBP) Abatement - Qtrs 2-7, 240, 83, 61
- ✓ LBP Reevaluation - YBI Housing Units

Other

- ✓ Step-out Confirmation Sampling at the Battery Site, YBI
- ✓ Asbestos Abatement - Bldg 293, 355, and 425
- ✓ Building 233 Asbestos Abatement and Radiological Survey
- ✓ PCB Sampling in the Finding of Suitability for Early Transfer (FOSET) parcels

3

2006 Accomplishments



Completed Final Documents

CERCLA

- ✓ Site 12 RI Human Health Risk Assessment (HHRA) Work Plan
- ✓ Site 12 Environmental Engineering and Cost Analysis (EE/CA) for Solid Waste Disposal Areas (SWDA)
- ✓ Site 30 Remedial Investigation (RI) Report and Feasibility Study (FS)
- ✓ Site 31 RI Report
- ✓ Proposed Plan for Sites 9 and 10

4

2006 Accomplishments



Completed Final Documents (Continued)

Petroleum

- ✓ Closure Reports for Sites 6 and 25

Transfer

- ✓ Finding of Suitability to Transfer (FOST) For TI
- ✓ FOST for YBI

Other

- ✓ Historical Radiological Assessment (HRA)
- ✓ Environmental Closeout Strategy and Schedules - 2006 Update

5

2006 Accomplishments



Community Relations Completed Activities

- ✓ Update to the Community Relations Plan (CRP)
- ✓ Island Times Newsletter, Volumes 11 and 12; mailed to over 1,100 people
- ✓ Fact sheets - Sites 30 and 31 FS Alternatives; Site 12 History and EE/CA
- ✓ Two Public Meetings
 1. Sites 9 and 10 Proposed Plan
 2. Site 12 EE/CA
- ✓ One Public Information Session for Site 12 SWDA Removal Action
- ✓ Completed annual update to the NAVSTA TI General Fact Sheet

6

2006 Accomplishments



Documents Near Completion

- Site 12 Action Memorandum
- Site 31 FS
- Final Site 21 RI Report
- Site 12 Removal Action Work Plan
- Building 233 Survey Report
- Site 27 Lead Shot Field Screening Level White Paper
- Tier I Screening Level Ecological Risk Assessment (SLERA) for Sites 6, 12, 24, 30, 31, 32, and 33

7



2007 Preview

Planned Environmental Cleanup Program Activities

December 19, 2006
NAVSTA Treasure Island
RAB Meeting

2007 Preview



Final CERCLA Documents

- Site 6 Remedial Investigation (RI) Report
- Sites 8, 28, 29 RI/Feasibility Study (FS) Reports
- Sites 9 and 10 Record of Decision (ROD)
- Site 11 RI Report
- Finalize Halyburton Court Soil Gas/Indoor Air Investigation Technical Memorandum
- Site 12 RI Report
- Site 12 Engineering Evaluation/Cost Analysis (EE/CA) and Action Memorandum for Halyburton Court

2007 Preview



Final CERCLA Documents (Continued)

- Site 21 RI/Focused FS Reports
- Site 24 RI/Focused FS Reports
- Site 27 Sampling and Analysis Plan
- Site 30 Proposed Plan
- Site 31 Proposed Plan
- Site 32 RI/FS Reports
- Site 33 RI/FS Reports



Final Other Documents

- PCB Summary Report - Basewide Sampling Investigation

3

2007 Preview



Field Work

- Site 12 Removal Action in Solid Waste Disposal Areas (SWDAs)
- Site 12 Arsenic Pilot Study
- Site 12 Backyard Sampling Investigation
- Site 21 - Continued Treatability Study
- Site 24 - Continued Treatability Study
- Site 27 Sediment Investigation
- Annual and Quarterly Groundwater Monitoring - Sites 6, 12, 25
- Site 25 Remedial Action and Confirmation Sampling
- Remedy selected PCB detections in FOST and FOSET areas
- Conduct Radiological Surveys of sites identified in the Historical Radiological Assessment (HRA)

2007 Preview



Expected Site Closures

- Site 6 - Petroleum Program, Soil and Groundwater
- Site 25 - Petroleum Program, Groundwater
- Sites 9 and 10



5

**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
December 2006 - July 2007**

Item	Document Title & Information	CTO/DO	INTERNAL DRAFT		DRAFT							FINAL			Comments				
			Internal Due to Navy	Navy Comments Due	Draft to Agencies	Agency Comments					Internal Final to Navy	Navy Comments Due	Final to Agencies						
						Date Due	D/TSC	Water Board	EPA	TIDA				RAB		OTHER			
Navy - Non Petroleum Related Documents																			
1	Previous Investigative Activities within the Lake of the Nations Footprint Technical Memorandum RPM: Scott Anderson	NA	NA	NA	08/30/04	✓	09/17/04	✓	✓	✓	✓	NA	NA	01/30/07					
Tetra Tech EM Inc. - Non Petroleum Related Documents																			
2	Site 21 Remedial Investigation Report RPM: Scott Anderson PM: Dave Donohue	144	09/23/04	✓	11/01/04	✓	01/17/05	✓	03/18/05	✓	✓	✓	✓	12/20/06	01/03/07	02/02/07			
3	Environmental Closeout Strategy 2006 Update RPM: Charles Perry PM: Marcie Rash	6	03/01/06	✓	04/05/06	✓	04/13/06	✓	05/15/06	✓	✓	✓	07/06/06	✓	10/21/06	✓	11/21/06	Final delayed to incorporate revised RI schedules.	
SulTech - Non Petroleum Related Documents																			
4	Site 30 Feasibility Study RPM: Charles Perry PM: Deanna Rhoades	118	03/15/06	✓	04/06/06	✓	07/12/06	✓	08/11/06	✓	✓	✓	✓	10/18/06	✓	10/23/06	✓	11/17/06	✓
5	Tier I SLERA FOR TI (Sites 6, 12, 24, 30, 31, 32, and 33) RPM: Charles Perry PM: Cindi Rose	126	06/28/06	✓	07/24/06	✓	08/14/06	✓	09/25/06	✓	✓	✓	✓	12/28/06	01/15/07	01/29/07			
6	Site 31 Feasibility Study RPM: Charles Perry PM: Deanna Rhoades	118	7/7/06 8/29/06	✓	7/31/06 9/11/06	✓	09/29/06	✓	10/31/06	✓	✓	✓	✓	12/20/06	01/10/07	01/31/07			
7	Site 32 Remedial Investigation Report RPM: Scott Anderson PM: Pam Baur	94	08/18/06	✓	09/17/06	✓	10/20/06	✓	12/08/06	✓	✓	✓	01/05/07	01/29/07	02/22/07	Agency comments on the Draft Site 32 RI Report delayed for 1+ month to allow DTSC time for appropriate review. "Other" agency comments provided by US Fish and Wildlife.			
8	Site 27 Lead Shot Field Screening Level White Paper RPM: Charles Perry PM: Cindi Rose	43	08/22/06	✓	08/25/06	✓	08/28/06	✓	09/07/06	✓	✓	✓	12/30/06	01/07/07	01/13/07	Agency comments were discussed at 09/07/06 and 10/3/06 BCT Tech meetings. Formal comments were not requested.			

**Naval Station Treasure Island
Environmental Cleanup Program
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December 2006 - July 2007**

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							D/ISC	Water Board	EPA	TIDA	RAB				
SulTech - Non Petroleum Related Documents (continued)															
9	Site 33 Remedial Investigation Report	103	09/07/06 ✓	10/16/06 ✓	TBD	TBD						01/26/06	02/05/07	02/19/07	
	RPM: Scott Anderson														
	PM: Kevin Hoch														
10	Site 12 Action Memorandum	52	10/04/06 ✓	11/01/06 ✓	11/10/06 ✓	11/27/06	✓	✓	✓			12/13/06* ✓	12/27/06*	1/29/07*	*These dates represent the 30day public comment period for the internal final. Draft RTCs on agency comments to pre-draft sent to BCT for review 12/18/06.
	RPM: James Whitcomb														
	PM: Deanna Rhoades														
11	Sites 9 and 10 Record of Decision	24	12/21/06	02/01/07	02/15/07	03/17/07						04/16/07	04/26/07	05/10/07	
	RPM: Scott Anderson														
	PM: Dave Donohue														
12	Site 21 Feasibility Study	144	01/03/07	01/24/07	04/11/07	05/11/07						07/26/07	08/09/07	08/23/07	
	RPM: Scott Anderson														
	PM: Dave Donohue														
13	Site 27 SAP/HSP	43	01/04/07	02/15/07	03/01/07	04/02/07						04/23/07	05/07/07	05/21/07	Field investigation scheduled for April to June 2007
	RPM: Charles Perry														
	PM: Cindi Rose														
14	Sites 8, 28, and 29 Revised Remedial Investigation Report	104	03/01/07	04/02/07	04/16/07	05/14/07						TBD	TBD	TBD	
	RPM: James Whitcomb														
	PM: Dave Donohue														
15	Site 24 Remedial Investigation Report	92	TBD	TBD	03/26/07	04/25/07						TBD	TBD	07/24/07	
	RPM: Scott Anderson														
	PM: Jean Michaels														
16	Site 24 Focused Feasibility Study	123	TBD	TBD	03/26/07	04/25/07						TBD	TBD	07/24/07	
	RPM: Scott Anderson														
	PM: Jean Michaels														
17	Site 6 Remedial Investigation Report	91	TBD	TBD	TBD	TBD						TBD	TBD	TBD	
	RPM: James Whitcomb														
	PM: Von Gusa														

**Naval Station Treasure Island
Environmental Cleanup Program
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						Date Due	D/SC	Water Board	EPA	TIDA				RAB		OTHER	
SulTech - Non Petroleum Related Documents (continued)																	
18	Site 12 EU Calculations White Paper	52	TBD	TBD	TBD	TBD							NA	NA	NA		
	RPM: James Whitcomb																
	PM: Victor Early																
19	Site 12 Remedial Investigation Report	117	TBD	TBD	TBD	TBD							TBD	TBD	TBD		
	RPM: James Whitcomb																
	PM: Ginna Demetrios																
20	Fact Sheet: Site 12 Remedial Investigation Report	52	TBD	TBD	TBD	TBD							TBD	TBD	TBD	Fact sheet will be distributed near the submittal of the Draft RI Report.	
	RPM: James Whitcomb																
	PM: Ginna Demetrios																
SulTech - Community Relations Documents																	
21	Island Times Environmental Newsletter #12, Fall/Winter 2006	6	10/27/06	✓	11/10/06	✓	11/15/06	✓	11/30/06	✓	✓						
	RPM: James Sullivan																
	PM: Marcie Rash																
Sullivan Consulting Group/Tetra Tech EM Inc. - Non Petroleum Related Documents																	
22	PCB Summary Report (Phase I and II)	CLIN0001	09/12/06	✓	TBD		TBD		TBD					NA	NA	TBD	
	RPM: Scott Anderson																
	PM: Dan Kim																
Shaw Environmental, Inc.																	
23	Building 233 Survey Report	134	07/05/06	✓	07/26/06	✓	12/06/06	✓	01/05/07					01/19/07	NA	01/29/07	
	RPM: James Whitcomb																
	PM: Pete Bourgeois																
24	Site 12 Non-Time Critical Removal Action Work Plan	10	11/02/06	✓	12/01/06	✓	12/15/2006	✓	01/15/07					01/22/07	NA	01/29/07	Document issued in Pre Draft Form.
	RPM: James Whitcomb																
	PM: Pete Bourgeois																
Weston - Non Petroleum Related Documents																	
25	Fact Sheet: Historical Radiological Assessment	6	11/04/05	✓	TBD		TBD		TBD					TBD	TBD	TBD	
	RPM: James Whitcomb																
	PM: Marcie Rash																

**Naval Station Treasure Island
Environmental Cleanup Program
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			Internal Due to Navy	Navy Comments Due	Draft to Agencies	Agency Comments						Internal Final to Navy	Navy Comments Due		Final to Agencies	
						Date Due	DTSC	Water Board	EPA	TIDA	RAB					OTHER
Barajas & Associates, Inc.																
26	Site 30 Proposed Plan	25	12/22/06	02/23/07	03/09/07	04/08/07							04/14/07	05/21/07	05/28/07	Navy comments on internal draft includes legal review.
	RPM: Charles Pery															
	PM: Margaret Bery															
27	Site 31 Proposed Plan	25	01/19/07	03/23/07	04/06/07	05/06/07							06/04/07	06/18/07	06/25/07	Navy comments on internal draft includes legal review.
	RPM: Charles Pery															
	PM: Margaret Bery															
28	Site 11 Remedial Investigation Report	24	03/01/07	04/12/07	05/23/07	07/03/07							10/09/07	10/29/07	12/06/07	
	RPM: Scott Anderson															
	PM: Margaret Bery															

✓ Production or review of document is complete.
The "Comments" column contains other pertinent information for planning.

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

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

Grey shading indicates the document is complete.

Abbreviations:

CTO = Contract Task Order
DO = Delivery Order
DTSC = Department of Toxic Substances Control
EE\CA = Engineering Evaluation\Cost Analysis
EU = Exposure Unit

HSP = Health and Safety Plan
NA = Not Applicable
PCB = Polychlorinated Biphenyls
PM = Project Manager
RPM = Remedial Project Manager
RTC = Resonse to Comments
SAP = Sampling and Analysis Plan

SLERA = Screening Level Ecological Risk Assessment
TBD = To Be Determined
TI = Treasure Island
Water Board = Regional Water Quality Control Board

**Naval Station Treasure Island
Navy Field Schedule**

December 2006 - February 2007

Item	Activity & Investigation Area	DTR #	Field Dates	Navy RPM	CTO/DO	PM	FTL	Complete
Tetra Tech EM Inc.								
	<i>None</i>							
Sullivan Consulting Group/ Tetra Tech EM Inc.								
1	Annual Groundwater Sampling <i>Site 12</i>	Doc N/A	Start: 11/06/06 Finish: 11/06/06	Jim Whitcomb (619) 532-0936	CL0002	Pamela Baur (415) 321-1795	Hannah Thompson (415) 321-1786	✓
2	3rd Quarter Groundwater Sampling for 2006 Petroleum Sites 6A and 25	Doc N/A	Start: 01/11/07 Finish: 01/12/07	Jim Whitcomb (619) 532-0936	CL0002	Pamela Baur (415) 321-1795	Hannah Thompson (415) 321-1786	
SulTech								
	<i>None</i>							
Shaw								
3	Step-Out Confirmation Sampling <i>Battery Site</i>	Doc N/A	Start: 10/17/06 Finish: 10/18/06	Scott Anderson (619) 532-0938	106	Peter Bourgeois (415) 277-6983	Barbara Matz (925) 288-2337	✓
4	Arsenic Bench Scale Testing <i>Site 12</i>	Doc N/A	Start: 12/11/06 Finish: 12/21/06	Scott Anderson (619) 532-0938	FZN1	Peter Bourgeois (415) 277-6983	Neil Hey (925) 288-2141	
5	PCB Indoor Air Sampling <i>Halyburton Court</i>	Doc N/A	Start: 12/12/05 Finish: 12/20/06	Jim Whitcomb (619) 532-0936	52	Kevin Hoch (415) 222-8332	Pamela Baur (415) 321-1795	
6	Site 24 Treatability Study Phase II <i>Site 24</i>	Doc N/A	Start: TBD Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Peter Bourgeois (415) 277-6983	David Cacciatore (925) 288-2299	
7	Site 21 Pilot Treatability Study <i>Site 21</i>	Doc N/A	Start: TBD Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Peter Bourgeois (415) 277-6983	Dan Leigh (925) 288-2193	

CTO - Contract Task Order
DO - Delivery Order
DTR # - Denotes document tracking reference. The number listed corresponds to the associated documentation listed on the Document Tracking Sheet
FTL - Field team lead
N/A - not applicable, there is no associated documentation listed on the DTS.

A

✓ Field work is complete.
RPM - Remedial Project Manager
TBD - To Be Determined

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