

**FINAL MEETING MINUTES  
RESTORATION ADVISORY BOARD  
NAVAL STATION TREASURE ISLAND  
19 June 2007  
Meeting Number 130**

**Community Restoration Advisory Board (RAB) Members in attendance:**

Nathan Brennan, John Gee, Alice Pilram

**Regulatory Agency, City of San Francisco (City), and U.S. Department of the Navy (Navy) RAB Members in attendance:**

Agnes Farres (Regional Water Quality Control Board [Water Board]), James Sullivan (Navy), Henry Wong (Department of Toxic Substances [DTSC])

**Other Navy Staff and Consultant Representatives in attendance:**

Scott Anderson (Navy), Pam Baur (Sullivan International Consulting Group), Pete Bourgeois, (Shaw Environment and Infrastructure [Shaw]), Tommie Jean Damrel (Tetra Tech EM Inc. [Tetra Tech]), Charles Perry (Navy), Marcie Rash (Tetra Tech)

**Public Guests**

Marc McDonald (Treasure Island Development Authority [TIDA])

**Welcome Remarks and Introductions**

James Sullivan (Base Realignment and Closure [BRAC] Environmental Coordinator) opened the 19 June 2007 meeting at 7:06 P.M. at the Casa de la Vista (Building 271).

Mr. Sullivan welcomed those in attendance, and pointed out that extra copies of the meeting materials were located at the back of the room. Mr. Sullivan then asked for changes or comments on the agenda. No changes were requested.

**Public Comment and Announcements**

Mr. Sullivan stated two public comment periods were included on the agenda to afford members of the public an opportunity to comment on the Navy's environmental program at Naval Station (NAVSTA) Treasure Island (TI), one at the start of the meeting and one near the end. Mr. Sullivan announced there would be a regular monthly community meeting for TI and Yerba Buena Island (YBI)

residents the next day, and that he and Pete Bourgeois (Shaw) would be present to give an update on the Navy's work at Site 12 and answer questions from residents. There were no public comments or other announcements.

### **Site 12 (TI Housing) Removal Action Update and Other Field Activities**

Mr. Sullivan introduced Mr. Bourgeois, who provided the field activities update for Site 12 as well as a brief update on other site activities.

Mr. Bourgeois stated Shaw has continued to screen soil in the Solid Waste Disposal Areas (SWDA) of Site 12 with Detector Array Rack Towed (DART) equipment (proprietary equipment provided by Shaw's subcontractor New World Technology). Mr. Bourgeois explained DART has 12 detectors that take a radiological count of an area while being towed. This allows the team to locate areas with elevated readings for radium. The team marks the area then returns for further investigation. The Shaw team is conducting 100 percent screening of each SWDA as per MARSSIM (Multi-Agency Radiation Survey and Site Investigation Manual) guidance. The site screening also includes collecting 32 soil samples for laboratory analysis from each 1-foot lift at each SWDA.

Mr. Bourgeois stated the team used a mini-excavator in areas where anomalies were found (referred to as hot spots), and screened all excavated materials from these areas for radiological materials. That data is sent to the Navy's Radiological Affairs Support Office (RASO) for review. RASO has the authority to give clearance for excavation. After Shaw has received clearance, they will use a large excavator and begin the 1-foot excavations. The soil in the larger excavations will also be hand-screened for radiological materials.

John Gee (RAB member) asked how is a hot spot defined. Mr. Bourgeois stated areas with elevated radiological readings during the DART survey are flagged. After the DART survey is completed, flagged areas are scanned with a hand scanner, and if that reading is elevated, a bias sample is collected. The bias sample is sent to the on-site laboratory for analysis. If the laboratory analysis indicates an elevated reading, the area is considered a "hot spot."

Mr. Bourgeois showed the RAB a photo of soil being excavated and put into a bin, called an intermodal or a DOT 7-A bin. These are special bins that allow transport of hazardous material. Mr. Bourgeois explained that hazardous material is classified as Class I, California hazardous, and Class II which is California non-hazardous. The different classes of waste are handled separately and hauled to different landfills. Mr. Bourgeois noted the Class II soil is loaded into a dump truck on Bayside Drive and hauled to Site 6 for temporary storage. Mr. Bourgeois showed a photo of soil being placed on plastic. Mr. Bourgeois also showed a photo of dust suppression activities, including watering the soil to prevent it being blown by the wind.

Mr. Bourgeois stated Shaw completed background air sampling upwind and downwind of the excavation areas prior to field work starting, and analyzed for the chemicals of concern (COC) in the SWDAs: polychlorinated biphenyls (PCB), polycyclic aromatic hydrocarbons, and lead over a 3-day period. High volume or "high vol" samplers were used to collect data on the COCs. After the background analysis, Shaw screened for the three COCs by collecting air samples at each of the excavation areas during the first 4 days of excavating. Mr. Bourgeois stated that, at the time of the RAB meeting, all analytical results for high vol samplers indicated non-detected concentrations for the COCs. During the remaining excavation work, air samples will be collected and analyzed for lead only, per the work plan and approved air monitoring plan

Mr. Bourgeois stated Shaw is also using Personal Data Rams (PDR) to get real-time data on air particulates. PDRs are placed on fences, on equipment, and on the arm of excavators and indicate whether the field activities are generating dust. Mr. Bourgeois noted that, at the time of the RAB meeting, the PDRs had not received any elevated readings, indicating dust control measures are working effectively. Mr. Bourgeois showed a photo of excavation behind SWDA 1231/1233, noting a water truck with a fire hose was being used to wet dirt and suppress dust. He also showed a photo of a tow behind water buffalo that sprays water along roadways and backyards where work is being conducted.

Mr. Bourgeois then discussed the safety precautions for loading the excavated soil into the trucks. From Site 6, trucks are loaded by field staff, and the truck driver is not allowed to get out of the truck until they have left Site 6 to ensure their clothing remains clean. A scale is used to ensure the trucks do not weigh more than 80,000 pounds when they leave. Once the load is filled, the driver uses a self-tarping device (an arm that wheels the tarp over the truck bed).

Mr. Bourgeois stated that radiological surveys and precautions are being driven by the discovery of several small decorative buttons or other small items found within the excavation areas. He showed a photo of the small buttons and what appeared to be a deck marker. The deck markers were used on military helmets to allow soldiers to see each other at night or on the side of a bridge to prevent driving over the edge. Mr. Bourgeois stated the Navy found a website with photos and explanations of the uses of items that look exactly like the ones found at Site 12, and stated the buttons are circa 1930.

Mr. Bourgeois stated field work for the entire removal action is currently scheduled to be completed in October 2007. He added that the Navy is hoping to be done with the removal activities in SWDAs 1231/1233 and 1207/1209 in August 2007.

There were no questions about Site 12, so Mr. Bourgeois gave a brief update about other field activities. Mr. Bourgeois stated the work plans for PCB abatement are out for agency review, and noted Scott Anderson, Navy, would give a presentation on that later in the meeting. Mr. Bourgeois also stated internal draft plans for continuation of treatability studies at Sites 21 and 24 would be going to the Navy. Finally, Mr. Bourgeois stated the Navy may collect soil samples at Site 25 sometime in the next few months, and there will be more information about that later.

### **Polychlorinated Biphenyl Update**

Mr. Sullivan stated the RAB had requested an update on the status of the abatement for concrete and soil where PCBs may be present due to the historic use of transformer equipment at TI. Mr. Sullivan introduced Mr. Anderson to provide the update. Mr. Anderson directed meeting members to view an 11-inch by 17-inch figure showing areas that will be addressed. Mr. Anderson also noted a draft PCB remediation work plan was currently out for review and stated he would be happy to take comments on that work plan after his presentation.

Mr. Anderson stated the project has two phases. In three areas, elevated levels of PCBs have been found in soil around outdoor transformer pads. Those areas need further characterization and delineation of the extent of contamination in the soil, which will be addressed during the first phase. The areas include two transformers near Site 6 and one in the southeast corner of the island.

Mr. Anderson stated the areas to be addressed during the second phase are the interior concrete flooring on some transformer vaults, including a location at Building 1, a small transformer room in Building 180, the transformer room in Building 3, and a transformer vault on YBI in Building 240. In those areas, the Navy will clean the concrete with an orange, solvent-removing type of liquid, then apply a high-build epoxy coating, about 15 millimeters thick, then apply a non-skid coating to protect workers who may access those transformer vaults. Specific to Building 1, while cleaning the floors, the Navy will also use the same orange cleaner to clean all of the walls and the exposed piping, and will use a high-efficiency particulate air (known as HEPA) vacuum while cleaning. The walls and piping will not be coated, but the Navy expects the cleaning to address elevated levels of PCBs detected in indoor air, because those readings could be due to dust. After the cleaning, the air in the vault will be resampled. Mr. Anderson stated the Navy hopes to get comments on the draft work plan and be in the field by late July or early August 2007.

Mr. Anderson stated there have been concerns expressed about interruption to electrical power due to the field work. The Navy will work with the Yacht Club and other operational businesses, and will get a temporary power source in place to avoid any interruption in electrical service for those businesses. Mr. Anderson

noted that all of the power for TI and YBI goes through Building 3. Fortunately, the single transformer in Building 3 can be shut down without affecting any other areas of TI or YBI.

Alice Pilram, RAB Co-chair, asked when are these activities scheduled. Mr. Anderson responded it would likely be late July or early August 2007, depending on when comments on the work plan are received, but that businesses would receive adequate advanced notice and would have another power supply during service interruptions. Mr. Bourgeois added the Navy has already notified the SFPUC, and they are supplying the generators that will maintain power to affected businesses.

### **Annual Groundwater Status Report for Site 6A and Site 25**

Mr. Sullivan stated most of the groundwater monitoring activities at TI and YBI are at the northern portion of Site 6 (also referred to as 6A), and Sites 12 and 25. At the April RAB meeting a presentation was given about Site 12 groundwater monitoring, and this is a follow-up presentation about groundwater monitoring at Sites 6 and 25. Mr. Sullivan then introduced Pam Baur with Sullivan International Consulting Group.

Ms. Baur stated the Navy had just submitted a Draft Annual Groundwater Status Report for Sites 6 and 25 and are hoping to receive comments by 12 July 2007. Ms. Baur stated that, similar to monitoring at Site 12, the Navy is monitoring the groundwater for petroleum and petroleum products, primarily to be protective of aquatic receptors. The status report covers three quarters of groundwater sampling, conducted in July 2006, October 2006, and January 2007.

Ms. Baur showed a map of the northern portion of Site 6, noting the locations of two former underground storage tanks (UST) and one currently active well (06-MW01). She then showed a map of Site 25, indicating two active wells (25 NE07 and 25 NW05) and noted the location of the former USTs. Ms. Baur noted the other wells depicted on the map were primarily part of the soil vapor extraction (SVE)/air sparge system and have been removed.

Ms. Baur explained that, similar to the monitoring at Site 12, the Navy monitors all wells within 200 feet of the shoreline at low-low tide. The analytes of concern for both sites are volatile organic compounds (VOC) and total petroleum hydrocarbons (TPH) as gasoline, diesel, and motor oil. In addition, the groundwater is analyzed for major anions including nitrate and sulfide as well as methane, ethane, and ethene. Lastly, groundwater is monitored for other natural attenuation parameters using field test kits, to see if the levels of TPH are reducing on their own.

Ms. Baur showed a chart of the results for the northern portion of Site 6, noting there are gasoline-derived hydrocarbons as a result of the former USTs at the site. Mr. Anderson noted that, on the chart, the spikes in levels often correlate to wet weather periods, when there has been a significant amount of precipitation and water levels are higher. Ms. Baur explained the laboratory sometimes must run a dilution for the analysis, during which the data results are multiplied to account for the dilution. Therefore, a small increase in a result may be exponentially higher when multiplied by the dilution factor, skewing the results. Mr. Sullivan stated the data should be viewed for general trends over a period of time rather than hard numbers.

Ms. Baur noted that a change in sampling equipment has been implemented to help ensure better results. Previously, a dedicated bladder pump was used continuously to collect samples. However, it was discovered that the pump became coated with TPH that did not dissolve in water, and was resulting in lower readings. Now, disposable bladder pumps are used, and replaced each time.

Ms. Baur stated the Navy also sampled for hydrocarbons known as non-aqueous phase liquids (NAPL) at Site 6. NAPL was not detected at 06-MW01. Ms. Baur went on to show diagrams presenting the screening criteria compared to current levels detected at 06-MW01 for several analytes of concern at Site 6, including benzene, ethylbenzene, and toluene.

Ms. Baur stated that a SVE system operated at Site 25 until 2005, and appears to have been successful at reducing levels of TPH. Ms. Baur noted that, while there have been detections of VOCs at Site 25 since the SVE system ceased operations, the current concentrations are below the screening criteria.

In conclusion, Ms. Baur stated the data show natural attenuation for TPH is working favorably. In addition, petroleum contaminants are also trending down. The recommendation is to continue with semi-annual monitoring at both sites in 2007.

There were no questions, so Mr. Sullivan moved to the next agenda item.

#### **Site 27 Clipper Cove Skeet Range Sampling and Analysis Plan**

Mr. Sullivan introduced Charles Perry from the Navy to discuss the Site 27 Sampling and Analysis Plan (SAP). Mr. Perry noted that a presentation was given at the April 2007 RAB meeting discussing the Navy's strategy for field work, and noted the draft SAP was being reviewed. Mr. Perry added that, although the review period ended on 13 June 2007, he would accept comments during the meeting.

Mr. Perry stated the schedule is to finalize the SAP in August 2007, and conduct field work from August through October 2007. The data from the investigation will be used to revise the Draft Feasibility Study that was previously prepared. The Revised Draft Feasibility Study is scheduled to be issued around March 2008.

### **2007 Site Management Plan Update**

Mr. Perry began the next agenda item, the Site Management Plan (SMP). Mr. Perry noted this document was formerly called the Environmental Closeout Strategy and Schedules. Mr. Perry stated the reason for the name change was to be consistent with the nomenclature used at other Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) installations. Mr. Perry then turned the presentation over to Marcie Rash, from Tetra Tech. Ms. Rash stated the Navy was currently updating the SMP, and a draft would be submitted later that week for regulatory agency review. Ms. Rash stated RAB members would receive the final SMP, scheduled for delivery sometime in September 2007.

Ms. Rash stated the Navy has been updating the SMP regularly since 2001. The SMP is used to help the BRAC Cleanup Team (BCT) move forward on achieving goals set forth in an agreement signed by the BCT. The agreement is referred to as the Federal Facility Site Remediation Agreement (FFSRA). Mr. Sullivan noted the FFSRA for former Naval Station Treasure Island (NAVSTA TI) was signed in September 1992 at the Casa de la Vista. Mr. Sullivan added that an FFA (Federal Facility Agreement) between the Department of Defense and the U.S. Environmental Protection Agency is signed for sites on the National Priorities List (NPL). However, because NAVSTA TI is a non-NPL site, the Navy signed an FFSRA and the state of California provides the lead regulatory oversight for the program.

Ms. Rash stated the SMP is organized similar to previous years. Information regarding the CERCLA program, petroleum program, and other compliance programs is provided. Changes for this year's update include a new table, Table 3, that summarizes the status of all of the petroleum sites, including those that have been closed. This was added at the request of the Water Board.

Another change this year is the addition of aerial photographs of each site that has not yet been closed to the site summary sheets. Now, in addition to giving an overview of the site the summary sheets provide a visual understanding of the site.

Ms. Rash stated that, for Appendices A and B, the compliance and basewide programs have been combined into one section. The current section covers basewide items, transfer items, RAB and BCT meetings, and community relations support. In addition, the asbestos-containing material program has been added, and the groundwater monitoring program is no longer separated by site, but is listed as one program.

Ms. Rash stated the draft SMP would be submitted that week, with 30 days for BCT review. The BCT comments on the SMP will likely be discussed at the August 2007 BCT meeting, then internal final and final documents will be prepared. The final SMP is expected to be delivered in September 2007. Ms. Rash noted that the document is dynamic and schedules are constantly being updated.

Mr. Brennan asked about the designations within the petroleum program. He noted some sites have petroleum monitoring, a list of pipelines and tanks, and then some are marked "never existed." Mr. Brennan asked how something is designated as "never existed". Mr. Sullivan explained that, on a construction drawing, an engineering document, or some other information there was an indication that a tank might exist. Through further investigation in the field – ground penetrating radar or excavation – no evidence of a tank could be found. The conclusion is the tank may have been planned but was never installed. That is differentiated from a tank that was present and has been removed.

There were no further questions, so Mr. Sullivan moved to the next topic.

## **Upcoming Documents and Field Schedule**

### **Documents**

Reading from the Document Tracking Sheet, Ms. Rash, presented the following documents that are or would become available in the next 2 months:

- Draft Sites 9 and 10 Record of Decision issued for review, comments due 22 June
- Draft Site 24 Remedial/Focused Feasibility Study issued for review, comments due 30 June
- Site 27 SAP/Health and Safety Plan, comments were due 13 June, final will be issued 1 August
- Final Site 12 Halyburton Court Indoor Air Evaluation Technical Memorandum, 2 July
- Draft Sites 8, 28, 29 Revised Remedial Investigation Report, 10 August
- Draft Annual Groundwater Status Report, Sites 6A and 25 issued for review, comments due 12 July
- Draft Sites 21 and 24 Work Plan, 26 July
- Draft SMP, 21 June

- Draft Island Times Volume 13 - Spring/Summer issued for review, comments due 25 June
- Final Basewide Radiological Support Work Plan, 2 August

### **Field Schedule**

Ms. Rash stated there was a planned radiological investigation for Buildings 233, 343, and 344, expected to begin 9 August and end around 13 September. Ms. Rash also noted a planned arsenic in groundwater pilot study scheduled to begin 17 August and end 21 November. In addition to these two new items, Ms. Rash noted three items are ongoing: the Site 24 Treatability Study, the Site 21 Pilot Treatability Study, and the Site 12 Non-Time Critical Removal Action.

There were no questions, so Mr. Sullivan moved to the next agenda item.

### **April 2007 RAB Meeting Minutes**

Mr. Sullivan noted the copies of the April RAB minutes delivered in the mail only had the odd numbered pages printed. He stated he sent a complete electronic copy to the group, and new hard copies were included with the other meeting handouts on the handout table. He also noted the RAB minutes are longer than usual, 16 pages instead of around 12, because the April RAB meeting was longer. He then asked for any comments on the April 2007 RAB meeting minutes.

Mr. Gee asked when was the electronic version e-mailed. Mr. Sullivan stated he would e-mail the file to Mr. Gee again if Mr. Gee was unable to locate the file. Mr. Gee then made a motion to accept the April 2007 meeting minutes, pending any comments from RAB member Ms. Smith, who was not present. Ms. Pilram seconded the motion and the minutes were approved.

### **Co-Chair Announcements**

Mr. Sullivan turned the discussion over to Ms. Pilram, RAB Co-chair. Ms. Pilram stated the 5 May 2007 history program at the Yacht Club was nice. Many people attended and there were interesting items brought by people in the historical society.

Mr. Sullivan noted for the group that a book was recently published on the history of TI. Ms. Pilram said she thought the author of the book would be present at the Yacht Club that coming weekend for the "summer sailstice" event. She noted he would be speaking and signing copies of the book on Friday, 22 June. Mr. Sullivan asked if members of the public could attend. Ms. Pilram explained the public is always welcome to listen to lectures, though if one comes for the dinner there is a fee.

Ms. Pilram added that there would be an entire weekend event called the "summer sailstice" with a barbeque on Saturday, an event co-hosted by the sailing school and the Yacht Club, and a treasure hunt at Clipper Cove.

### **BRAC Cleanup Team Update**

Mr. Sullivan stated there had been two BCT meetings since the last RAB meeting, both of which were half day meetings. At the May meeting, the BCT discussed the SMP, had an update about the Site 12 removal action, and discussed administrative items. At the June meeting, the BCT had another discussion about the removal action at Site 12, and discussed a future soil gas investigation at Sites 6 and 12. Details about the June RAB meeting and administrative items were also discussed.

Mr. Sullivan stated the next BCT meeting was scheduled for 10 July 2007 at the Tetra Tech offices in San Francisco. Mr. Sullivan stated that, often, the July meeting is held in San Diego. However, the July meeting this year would be in San Francisco, and the Navy was tentatively planning an August BCT meeting for San Diego.

### **Other Public Comment and Announcements**

Mr. Brennan stated there was a Citizen's Advisory Board (CAB) meeting on 5 June. There was a presentation from California Department of Transportation (Caltrans) about transportation issues, including on and off ramps for the island and acceleration lanes. Mr. Brennan stated Caltrans is planning to put a solid line on the right-hand lane through the tunnel with a sign reading "Thru Traffic Merge Left" to slow down that lane and make merging onto the Bay Bridge easier. Mr. Brennan stated the on-ramps on YBI are the only on-ramps in California that are not owned by Caltrans, so the City of San Francisco is hoping to facilitate transfer of ownership of those ramps from the Navy to Caltrans. Mr. Brennan added there may be a state bill about the subject at a future date. Mr. Brennan added the CAB had a lively discussion about the long-term plans for the use of ramps in the future.

Mr. Brennan stated the CAB also held officer elections, and a lot of general discussion occurred because they had not met in 3 months. Mr. Brennan added there would be another meeting this summer, and to check the CAB website for dates.

Ms. Pilram asked if there was any discussion with Caltrans about the plans for Labor Day weekend, given the planned closures to the Bay Bridge to accommodate safety upgrades. Mr. Brennan stated the access for residents of TI and YBI will be west, with access to and from San Francisco, but not Oakland, via the Bay Bridge. He added there may be a requirement to show residency to get on and off the islands that weekend.

Marc McDonald, TIDA, stated Caltrans was working with TIDA to establish an office on TI with public information to inform residents and address any concerns. Mr. McDonald stated he did not know the full details of the plan for resident access to TI over the Labor Day weekend, but did know there would be a plan in place similar to other closures.

Moving on to other announcements, Mr. Sullivan stated he had a brief update on property transfer, as requested by RAB members. He stated the Navy was concluding the data-gathering phase of the Economic Development Conveyance (EDC) application process. To do that, the Navy reviews information gathered by TIDA, then will make a determination on the approval of the EDC application. The second ongoing item related to transfer is a land value appraisal. The appraisal is of all the land on TI and YBI that is the property of the Navy, and excludes previously transferred property, such as property conveyed to the Department of Labor, Caltrans, and the Coast Guard. The completion of the EDC and the land appraisal will lead to a formal transfer discussion between the Navy and TIDA.

#### **Future Meeting Agenda Items**

Mr. Sullivan stated results of the Sites 21 and 24 groundwater sampling may be on the August agenda if they are ready. Another update on Site 12 will also be on the agenda, as well as any other topical items. Mr. Sullivan stated the Navy is also hosting a public information session targeted to residents on TI and YBI to give them an update on the Site 12 Removal Action, and invited RAB members to attend. He stated an update on the public information session would be presented at the next RAB meeting.

#### **Closing Remarks/End of Meeting**

Mr. Sullivan stated the next RAB meeting was scheduled for 21 August 2007 and the RAB teleconference was scheduled for 1 August 2007. He then thanked everyone for attending and brought the meeting to a close at 8:17 p.m.

**June 2007 RAB Meeting Handouts**

- TI RAB Meeting No. 130 Agenda, 19 June 2007
- Site 12 (TI Housing) Removal Action Update, 19 June 2007
- 2006 Groundwater Monitoring for Petroleum Sites 6A and 25, 19 June 2007
- Site 27 Clipper Cove Skeet Range SAP Schedule, 19 June 2007
- SMP Update, 19 June 2007
- Document Tracking Sheet
- Navy Field Schedule

NAVAL STATION TREASURE ISLAND  
ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING  
Tuesday, 19 June 2007  
7:00 PM.  
**Casa de la Vista (Building 271)**  
Treasure Island

**MEETING NO. 130**

- 6:15 – 6:45 **Optional Van Tour of Site 12 Fieldwork (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 - 7:30 **Site 12 (TI Housing) Removal Action and Other Field Activities Update**  
Lead: Pete Bourgeois, Shaw Environmental & Infrastructure
- 7:30 – 7:40 **Polychlorinated Biphenyl (PCB) Abatement Update**  
Lead: Scott Anderson, Navy Project Manager
- 7:40 – 7:50 **Annual Groundwater Report for Site 6A and Site 25**  
Lead: Pam Baur, Sullivan Consulting Group, Inc.
- 7:50 – 7:55 **Site 27 Clipper Cove Skeet Range SAP (Comments)**  
Lead: Charles Perry, Navy Lead Remedial Project Manager
- 7:55 – 8:05 **2007 Site Management Plan (SMP) Update**  
Lead: Charles Perry, Navy, and Marcie Rash Tetra Tech EMI
- 8:05 – 8:15 **Upcoming Documents and Field Schedule**  
Lead: Marcie Rash, Tetra Tech EMI
- 8:15 – 8:25 **April 2007 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



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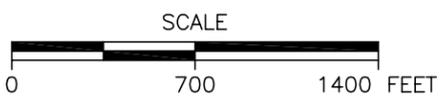
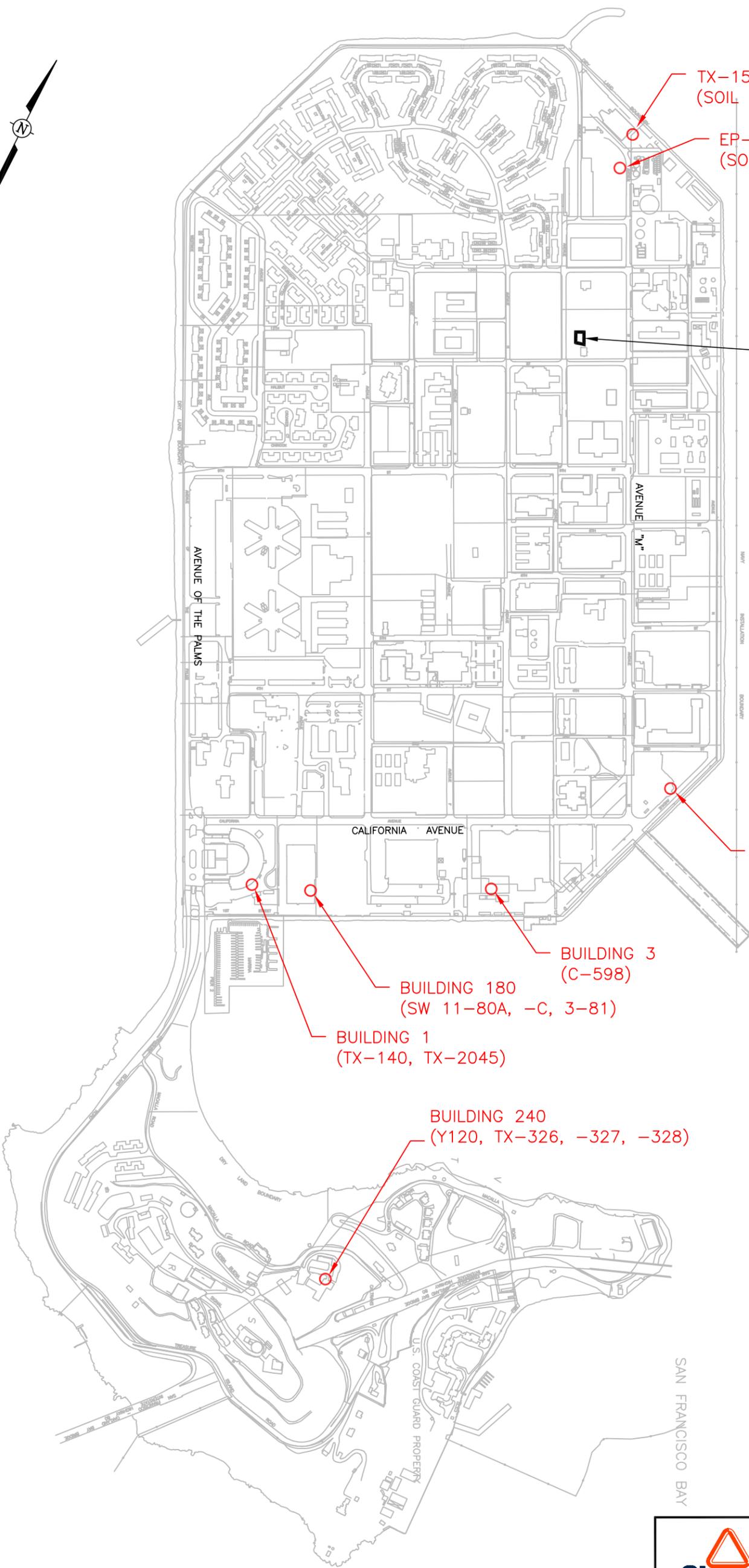
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SITEBLK

Concord

S/Z 1/3/07

San Francisco Bay



**Shaw** Shaw Environmental, Inc.

DEPARTMENT OF THE NAVY  
SOUTHWEST DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
SAN DIEGO, CALIFORNIA

FIGURE 2

SITE MAP SHOWING WORK AREAS  
BASEWIDE PCB REMEDIATION

NAVAL STATION TREASURE ISLAND



## 2006 Groundwater Monitoring at Petroleum Sites 6 and 25

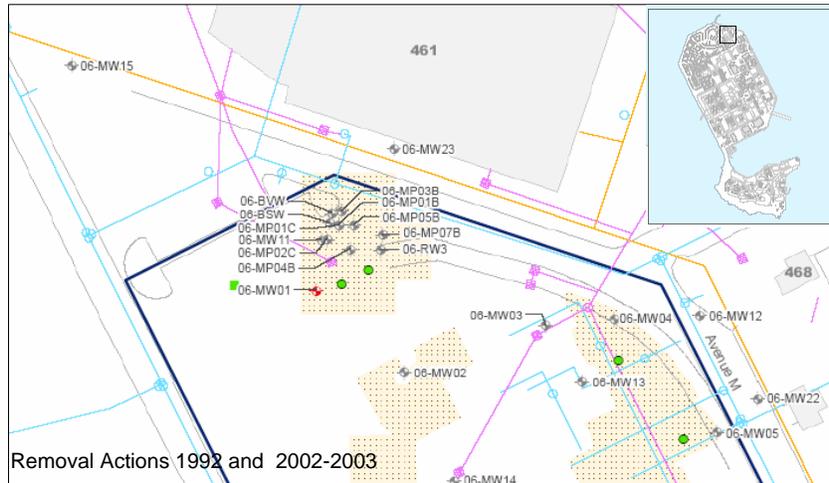
June 19, 2007  
NAVSTA Treasure Island  
RAB Meeting



## Groundwater Monitoring

- The principal objective of the groundwater investigation at Petroleum Sites 6 and 25 is to evaluate whether petroleum contaminants are present in groundwater at concentrations that may pose a risk to aquatic organisms
  - Groundwater at NAVSTA TI is recognized as unsuitable for municipal or domestic water supplies
  - Screening is provided only for aquatic organisms in the groundwater status reports all human health concerns will be addressed in site specific reports
- Petroleum Sites 6 and 25 monitored for 3 quarters (July 2006, October 2006, and January 2007)

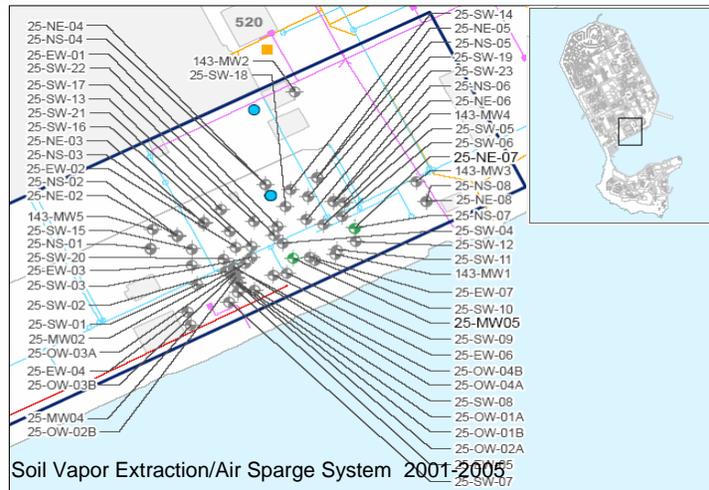
# Petroleum Site 6



Removal Actions 1992 and 2002-2003

06-MW01

# Petroleum Site 25



Soil Vapor Extraction/Air Sparge System 2001-2005

25-MW05 and 25-NE-07

## Methods and Procedures



- All groundwater level measurements collected at low-low tide
- Groundwater samples collected at low-low tide for wells within 200 feet of the shoreline
- Low-flow techniques using a bladder pump

## Methods and Procedures

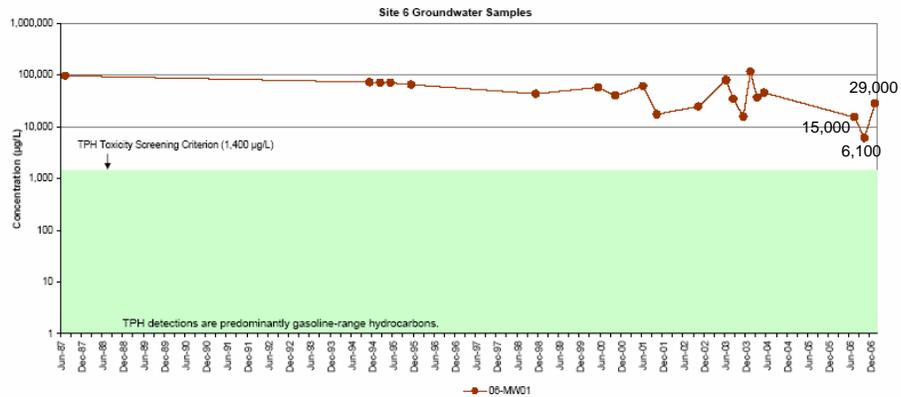


- Analytes of concern (Off Site Laboratory)
  - Volatile organic compounds
  - TPH as purgeables as gasoline
  - TPH as extractables as diesel and motor oil
  - Major anions
  - Methane, ethane, and ethene
  - Nitrate
  - Sulfide
  - Total dissolved solids
  - Total suspended solids
- Analytes of concern (Field Test Kits)
  - Alkalinity
  - Iron (II)
  - Manganese (II)

# Analytical Results



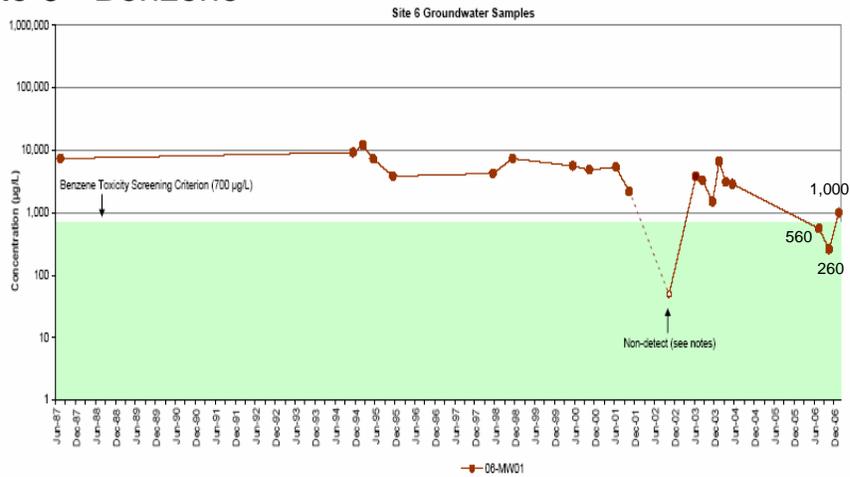
## Site 6 – Total Petroleum Hydrocarbons



# Analytical Results



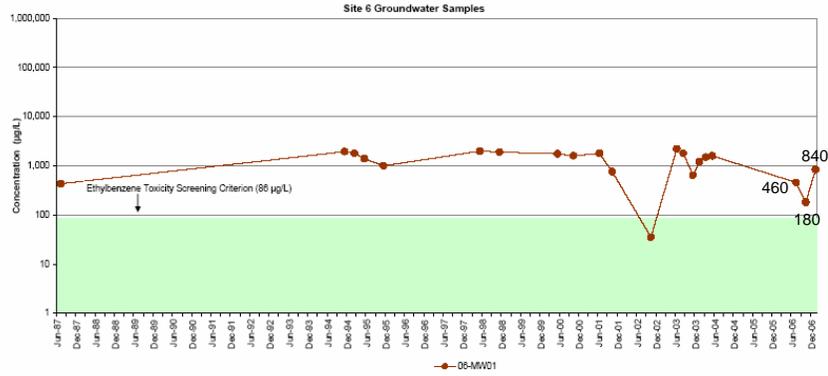
## Site 6 - Benzene



# Analytical Results



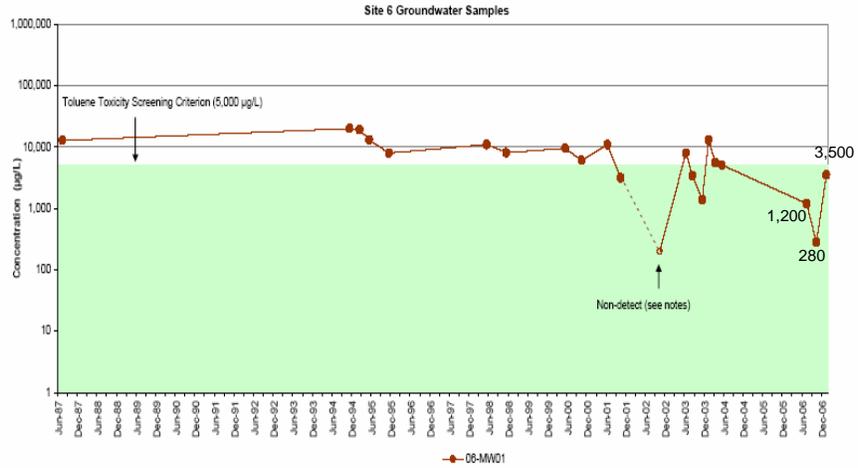
## Site 6 - Ethylbenzene



# Analytical Results



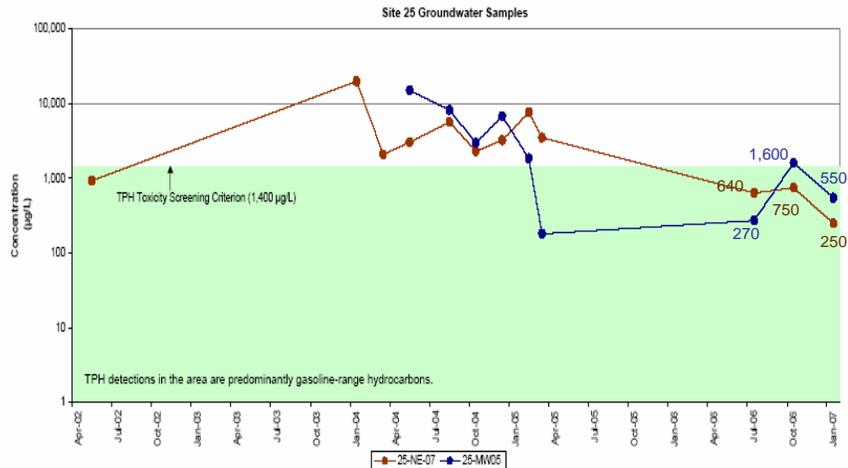
## Site 6 - Toluene



# Analytical Results



## Site 25 – Total Petroleum Hydrocarbons



## Conclusions and Recommendations



- **Conclusions**
  - MNA parameters at Petroleum Sites 6 and 25 indicate favorable conditions for natural attenuation
  - Petroleum contaminants of concern are trending down
- **Recommendations**
  - Petroleum Site 6 - Semiannual sampling to monitor contaminants of concern above the screening criteria
  - Petroleum Site 25 - Semiannual sampling to evaluate reducing trend of TPH and petroleum related VOCs



Questions ??

# SITE 27 SCHEDULE



- Draft Sampling and Analysis Plan (SAP): *May 11, 2007*
- Final SAP: *August 1, 2007*
- Field Investigation: *August to October 2007*
- Revised Draft Final Feasibility Study: *March 2008*



# Treasure Island Site Management Plan Update

(Formerly the Environmental Closeout Strategy  
and Schedules)

June 19, 2007  
Naval Station Treasure Island  
RAB Meeting

## 2007 Update



- Overview
- Major Changes in 2007 Update
- Deliverable Schedule

## Overview



- The Navy, DTSC, and the Water Board participate in the Federal Facility Site Remediation Agreement (FFSRA) to streamline and accelerate the environmental remediation process of TI.
- The Site Management Plan (SMP) is a part of the agreement to achieve the primary goals of the environmental restoration program.
  - Annual status of ongoing environmental program strategies
  - Annual update to the site specific schedules
  - Supports the joint California execution plan

## Overview (Continued)



- The SMP is organized by environmental programs:
  - CERCLA
  - Petroleum
  - Compliance and Basewide
- The strategies and schedules are developed, reviewed, and agreed upon by the BCT.

## Major Changes



- Document name
- Table 3: Petroleum Site Summary
- Appendix A site descriptions - aerial photographs
- Appendices A and B - Combined Compliance and Basewide Programs
  - Regulatory Interaction
  - Community Relations Support
  - Asbestos-Containing Material
  - Groundwater Monitoring

## SMP Deliverable Schedule



- Draft SMP: June 21
- BCT review comments: July 21
- Internal Final SMP: August 24
- Final SMP: September 20

**Naval Station Treasure Island  
Environmental Cleanup Program  
Document Tracking Sheet  
June 2007 - January 2008**

Item	Document Title & Information	CTO/DO	INTERNAL DRAFT		DRAFT						RTC		INTERNAL FINAL		FINAL	NOTES						
			Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Date Due	DTSC	Water Board	EPA	TIDA	RAB	OTHER	Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due	Final to Agencies	Comments				
<b>SuTech - Non Petroleum Related Documents</b>																						
1	Site 32 Remedial Investigation Report	94	08/18/06	✓	09/17/06	✓	10/20/06	✓	02/14/07	✓	✓	✓	✓	✓	TBD	TBD	TBD	TBD	TBD	*Other* agency comments provided by US Fish and Wildlife. RI on hold while path forward on RTCs is determined.		
	RPM: Scott Anderson																					
	PM: Pam Baur																					
2	Site 33 Remedial Investigation Report	103	09/07/06	✓	10/16/06	✓	TBD		TBD						TBD	TBD	TBD	TBD	TBD			
	RPM: Scott Anderson																					
	PM: Kevin Hoch																					
3	Sites 9 and 10 Record of Decision	24	12/21/06*	✓	01/19/07*	✓	05/04/07	✓	06/22/07						TBD	TBD	TBD	TBD	TBD	* Navy technical review ** Navy legal review		
	RPM: Scott Anderson		02/04/07**	✓	03/30/07**	✓																
	PM: Laura Newman																					
4	Site 24 Remedial Investigation Report/ Focused Feasibility Study	92 /123	12/22/06*	✓	01/31/07*	✓	04/30/07	✓	06/30/07						07/31/07	08/07/07	08/27/07	09/07/07	09/21/07	* Navy technical review ** Navy legal review		
	RPM: Scott Anderson		02/14/07**	✓	03/30/07**	✓																
	PM: Jean Michaels																					
5	Site 27 SAP/HSP	43	04/06/07	✓	04/20/07	✓	05/10/07	✓	06/13/07	✓	✓	✓			07/02/07	07/09/07	07/12/07	07/19/07	08/01/07	Awaiting comments from TIDA on draft. Field investigation scheduled for August 2007		
	RPM: Charles Perry																					
	PM: Cindi Rose																					
6	Site 12 Halyburton Court Indoor Air Evaluation Technical Memorandum	52	NA		NA		NA		NA						NA	NA	04/24/07	✓	05/17/07	✓	07/02/07	
	RPM: James Whitcomb																					
	PM: Kevin Hoch																					
7	Sites 8, 28, and 29 Revised Remedial Investigation Report	104	07/02/07		07/23/07		08/10/07		09/09/07						09/23/07	09/30/07	10/23/07	11/02/07	11/16/07	The Draft RI Report was submitted in March 2006.		
	RPM: James Whitcomb																					
	PM: Marcie Rash																					
8	Site 6 Remedial Investigation Report	91	TBD		TBD		TBD		TBD						TBD	TBD	TBD	TBD	TBD			
	RPM: James Whitcomb																					
	PM: Von Gusa																					
9	Site 21 Feasibility Study	144	TBD*		TBD*		TBD		TBD						TBD	TBD	TBD	TBD	TBD	* Navy technical review ** Navy legal review		
	RPM: Scott Anderson		TBD**		TBD**																	
	PM: Jean Michaels																					
10	Site 12 EU Calculations White Paper	52	TBD		TBD		TBD		TBD						TBD	TBD	NA	NA	NA			
	RPM: James Whitcomb																					
	PM: Victor Early																					

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Environmental Cleanup Program  
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			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	Comments					
							DTSC	Water Board	EPA	TIDA	RAB							OTHER				
<b>SulTech - Non Petroleum Related Documents (continued)</b>																						
11	Site 12 Remedial Investigation Report	117	TBD	TBD	TBD	TBD							TBD	TBD	TBD	TBD						
	RPM: James Whitcomb																					
	PM: Ginna Demetrios																					
12	Fact Sheet: Site 12 Remedial Investigation Report	52	TBD	TBD	TBD	TBD							TBD	TBD	TBD	TBD						
	RPM: James Whitcomb																					
	PM: Ginna Demetrios																	Fact sheet will be distributed near the submittal of the Draft RI Report.				
13	Fact Sheet: Radiological Program Update	FZN6	TBD	TBD	TBD	TBD							TBD	TBD	TBD	TBD						
	RPM: James Whitcomb																					
	PM: Marcie Rash																					
<b>Sullivan Consulting Group/Tetra Tech EM Inc. - Non Petroleum Related Documents</b>																						
14	PCB Summary Report (Phase I and II)	CLIN0001	09/12/06	✓	01/27/07	✓	02/09/07	✓	03/09/07	✓	✓	✓	✓			TBD	TBD	TBD	TBD	TBD	Awaiting DTSC comments on draft.	
	RPM: Scott Anderson																					
	PM: Pam Baur																					
15	Annual Groundwater Status Report, Site 12	CLIN0002	03/02/07	✓	03/05/07	✓	03/26/07	✓	05/02/07	✓	✓	x	✓			TBD	TBD	TBD	TBD	TBD	EPA deferred to the Water Board's review of the document (dated 26 April 2007). Awaiting DTSC comments on draft.	
	RPM: James Whitcomb																					
	PM: Pam Baur																					
16	Annual Groundwater Status Report, Sites 6A and 25	CLIN0002	04/24/07	✓	05/04/07	✓	06/12/07	✓	07/12/07							08/02/07	08/09/07	08/29/07	09/12/07	09/26/07		
	RPM: James Whitcomb																					
	PM: Pam Baur																					
<b>Shaw Group</b>																						
17	PCB Work Plan	FZN1	03/19/07	✓	04/10/07	✓	04/26/07	✓	05/23/07		x	x	✓	✓			TBD	TBD	TBD	TBD	TBD	Awaiting DTSC comments on draft.
	RPM: Scott Anderson																					
	PM: Pete Bourgeois																					
18	Site 21 and Site 24 Work Plan	FZN1	06/21/07		07/12/07		07/26/07		08/23/07								TBD	TBD	TBD	TBD	TBD	
	RPM: Scott Anderson																					
	PM: Pete Bourgeois																					
19	Site 12 Work Plan for Arsenic in Groundwater Pilot Study	FZN1	TBD		TBD		TBD		TBD								TBD	TBD	TBD	TBD	TBD	
	RPM: Scott Anderson																					
	PM: Pete Bourgeois																					

**Naval Station Treasure Island  
Environmental Cleanup Program  
Document Tracking Sheet  
June 2007 - January 2008**

Item	Document Title & Information	CTO/DO	INTERNAL DRAFT		DRAFT						RTC		INTERNAL FINAL		FINAL	NOTES				
			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	Comments			
						Date Due	DTSC	Water Board	EPA	TIDA	RAB							OTHER		
<b>Tetra Tech EM, Inc.</b>																				
20	<b>2007 Site Management Plan</b>	FZN6	05/24/07	✓	06/15/07	✓	06/21/07	07/21/07							08/02/07	08/09/07	08/24/07	09/06/07	09/20/07	
	RPM: Charles Perry																			
	PM: Marcie Rash																			
21	<b>Island Times Volume 13 - Spring/Summer 2007</b>	FZN6	05/04/07	✓	06/01/07	✓	06/11/07	06/25/07							07/06/07	07/11/07	07/06/07	07/13/07	07/30/07	
	RPM: James Sullivan																			
	PM: Marcie Rash																			
22	<b>Community Involvement Plan 2007</b>	FZN6	10/19/07		11/20/07		12/05/07	01/03/08							01/08/08	01/17/08	01/17/08	01/24/08	01/26/08	Anticipate conducting interviews July 26 through September 28, 2007.
	RPM: James Sullivan																			
	PM: Marcie Rash																			
<b>Tetra Tech EC, Inc.</b>																				
23	<b>Basewide Radiological Support Work Plan</b>	21	11/29/06	✓	01/04/07	✓	02/20/07	04/05/07	✓	✓	x	✓			05/15/07	06/15/07	07/02/07	07/17/07	08/02/07	DHS requested a 2 week extension for RTC review.
	RPM: James Whitcomb																			
	PM: Brian Maidrand																			
<b>Barajas &amp; Associates, Inc.</b>																				
24	<b>Site 30 Proposed Plan</b>	25	12/22/06	✓	03/06/07	✓	03/23/07	06/18/07	✓	✓	✓	✓			08/06/07	08/11/07	08/16/07	08/21/07	08/30/07	Navy comments on internal draft includes legal review. Awaiting DTSC comments on draft.
	RPM: Charles Perry																			
	PM: Margaret Berry																			
25	<b>Site 31 Proposed Plan</b>	25	01/19/07	✓	03/06/07	✓	03/23/07	06/18/07	✓	✓	✓	✓			08/06/07	08/11/07	08/16/07	08/21/07	08/30/07	Navy comments on internal draft includes legal review. Awaiting DTSC comments on draft.
	RPM: Charles Perry																			
	PM: Margaret Berry																			
26	<b>Site 11 Remedial Investigation Report</b>	24	08/14/07		09/13/07		10/11/07	11/10/07							12/01/07	12/08/07	01/07/08	01/17/08	01/31/08	
	RPM: Scott Anderson																			
	PM: Margaret Berry																			

✓ Production or review of document is complete.  
x Document review is complete. Agency chose not to provide comments or deferred to another agency's review of the document.

Abbreviations:  
CTO = Contract Task Order  
DHS = Department of Health Services  
DO = Delivery Order  
DTSC = Department of Toxic Substances Control  
EU = Exposure Unit

HSP = Health and Safety Plan  
NA = Not Applicable  
PCB = Polychlorinated Biphenyls  
PM = Project Manager  
RAB = Restoration Advisory Board  
RPM = Remedial Project Manager

SAP = Sampling and Analysis Plan  
TBD = To Be Determined  
TIDA = Treasure Island Development Authority  
Water Board = Regional Water Quality Control Board

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.

**Naval Station Treasure Island  
Navy Field Schedule**

June - August 2007

Item	Activity & Investigation Area	DTR #	Field Dates	Navy RPM	CTO/DO	PM	FTL	Complete
<b>Tetra Tech EC Inc.</b>								
1	Radiological Investigation <i>Bldgs 233, 343, and 344</i>	Doc 23	Start: 08/09/07 Finish: 09/13/07	James Whitcomb (619) 532-0936	21	Brian Maidrand 619-471-3570	Jennifer Dessort 949-753-7541	
<b>Shaw</b>								
2	Site 24 Treatability Study Phase II <i>Site 24</i>	Doc N/A	Start: 01/29/07 Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Peter Bourgeois (415) 277-6983	David Cacciatore (925) 288-2299	
3	Site 21 Pilot Treatability Study <i>Site 21</i>	Doc N/A	Start: 01/29/07 Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Peter Bourgeois (415) 277-6983	Dan Leigh (925) 288-2193	
4	Non-Time Critical Removal Action <i>Site 12</i>	Doc N/A	Start: 02/26/07 Finish: 10/26/07	Jim Whitcomb (619) 532-0936	10	Peter Bourgeois (415) 277-6983	Peter Bourgeois (415) 277-6983	
5	Arsenic in Groundwater Pilot Study <i>Site 12</i>	Doc N/A	Start: 08/17/07 Finish: 11/21/08	Jim Whitcomb (619) 532-0936	FZN1	Peter Bourgeois (415) 277-6983	Peter Bourgeois (415) 277-6983	

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.

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.