

**FINAL MEETING MINUTES
RESTORATION ADVISORY BOARD
NAVAL WEAPONS STATION SEAL BEACH, DETACHMENT CONCORD,
CONCORD, CALIFORNIA
JULY 12, 2004**

These minutes reflect general issues raised, agreements reached, and action items identified at the Restoration Advisory Board (RAB) meeting for the Naval Weapons Station (NWS) Seal Beach, Detachment (SBD) Concord, California. The meeting was held from 6:30 p.m. to 8:30 p.m. on July 12, 2004, at the Willow Pass Community Center in Concord, California. Agreements and action items are described by topic under Sections I through V and are summarized in Section VI. A list of participants and their affiliations is included as Attachment A, and the meeting agenda is included as Attachment B.

I. WELCOME, INTRODUCTIONS, AND PUBLIC COMMENT

Welcome and Introductions

The RAB Community Co-chair, Mary Lou Williams (Concord resident), called the July 12, 2004, RAB meeting to order and initiated a round of introductions for attendees.

Margaret Wallerstein, Ph.D. (RAB Navy Co-chair), reviewed the meeting agenda and asked whether there were any comments or additions. The RAB approved the July 2004 agenda.

Public Comments

Ms. Williams opened the floor to public comments. No public comments were offered.

August 2004 RAB Agenda Approval

Ms. Wallerstein reviewed the proposed August 2004 RAB meeting agenda. The RAB voted to approve the August 2004 agenda. The next RAB meeting will take place at the Willow Pass Community Center in Concord, California, on August 9, 2004. Ms. Wallerstein announced that she will be unable to attend RAB meeting on August 9, 2004. Steve Tyahla (Navy) will stand in as Navy co-chair for Ms. Wallerstein during the August 2004 RAB meeting.

II. JUNE RAB MEETING MINUTES APPROVAL

Ms. Williams asked for comments on the RAB meeting minutes for June 7, 2004. There were no comments, so Igor Skaredoff (Martinez Resident) moved to approve the meeting minutes, and Ed McGee (Martinez Resident) seconded the motion. The meeting minutes were approved.

Action Item

1. The Navy will distribute the final RAB minutes for the meeting on June 7, 2004.

III. COMMITTEE REPORTS AND ANNOUNCEMENTS

Agency for Toxic Substances and Disease Registry (ATSDR) Update

Ms. Wallerstein announced that ATSDR would send a fact sheet to the community announcing that a

public health assessment is under way for NWS SBD Concord. The fact sheet will inform the community of ATSDR's activities at NWS SBD Concord and will announce the upcoming public comment period on the draft public health assessment. Libby Levy (ATSDR) said that the report would be issued in December 2004 or January 2005; an exact submittal date for the draft report has not been set.

Once the draft report is issued, a presentation will be given by the ATSDR to the RAB.

RAB Co-Chair Workshop

Ms. Williams announced that she and Ms. Wallerstein would be attending the National RAB Workshop from July 23 through July 25, 2004, in Salt Lake City, Utah. The workshop is open to RAB co-chairs, and agenda topics include presentations on community outreach, Navy budget, and Base Realignment and Closure activities. Ms. Wallerstein and Ms. Williams will provide an update to the RAB once they return from the workshop.

RAB Co-Chair Update

Ms. Williams announced that there would be a 60th anniversary memorial service on Saturday, July 17, 2004, at the Port Chicago National Memorial to commemorate the 1944 Port Chicago explosion. Shuttles will pick up attendees at the front gate from 9:00 to 9:45 a.m., and the 30-minute memorial service begins at 10:00 a.m. Those interested in making a shuttle reservation to attend the memorial service should call (925) 838-0249. Ms. Williams also noted that an article in the July 12, 2004, edition of the *Contra Costa Times* provides first-hand accounts from people who were present at the time of the explosion. Mr. Menesini suggested that a document by Marti Ayello of the Pittsburgh Historical Association provides a good catalogue of events surrounding the explosion.

RAB Site Tour

Ms. Wallerstein thanked the RAB members for participating in the site tour that took place on Saturday, June 26, 2004. Ray O'Brien (Bay Point resident) said he was disappointed that the RAB tour was not open to the public. Ms. Wallerstein responded that the site tour was closed to the public because of scheduling conflicts with the Army, security clearance issues, and the short planning time. Mr. O'Brien and Mr. Skaredoff both recommended that future site tours be organized far enough in advance to invite the public and make appropriate accommodations, including specifying that there is limited space, or the like. The RAB agreed with Mr. O'Brien's recommendation for inviting the surrounding community to a future site tour. Ms. Wallerstein stated that the Navy strongly prefers to have the site tours open to the public and in the future will make every effort to do so. However, Army operations, security concerns and funding are factors that will likely limit participation in and scheduling of any future site tours. Mario Menesini (Walnut Creek resident) thanked the Navy and the agencies for providing the RAB with the opportunity for a well-organized site visit. He stated that he found visiting the sites very helpful.

IV. REMEDIAL PROJECT MANAGERS (RPM) UPDATE

U.S. Environmental Protection Agency (EPA) Update

Phillip Ramsey (EPA) distributed EPA's comment letter on the draft Litigation Area monitoring plan that was sent to the Navy on June 29, 2004. Mr. Ramsey reviewed the highlights of EPA's comments on the

draft Litigation Area monitoring plan, which include:

- EPA is concerned with the limited amount of monitoring proposed.
- EPA would like to see the Navy conduct biological monitoring and expand the proposed groundwater monitoring.
- EPA recommends that the monitoring plan should be comprehensive for the entire Litigation Area, and not exclude areas included in the supplemental feasibility study (FS).

Mr. Ramsey said that EPA is reviewing and providing the Navy with comments on the draft amendment to the site management plan (SMP). EPA is concerned with some of the proposed delays on projects that the Navy has suggested in the SMP. Mr. Ramsey is currently working on finalizing EPA's comments, and will submit his comments to the Navy once he has approval from EPA management.

Mr. Ramsey said that EPA is currently working on coordinating with the City of Concord to obtain access for sampling the City of Concord wells just outside the Navy property along Olivera Road.

Mr. Ramsey said that the agencies are involved in internal discussions on their comments on the draft final remedial investigation (RI) for Site 30 (Taylor Boulevard Bridge). The U.S. Fish and Wildlife Services (FWS) provided EPA with some comments on the RI for the Taylor Boulevard Bridge and will be submitting those comments to the Navy shortly. Mr. Ramsey said that he is considering adding these concerns to EPA's comments that will be submitted to the Navy once they are complete.

Mr. Ramsey also said that EPA is currently working on comments for the draft final RI for Solid Waste Management Unit (SWMU) Sites 2, 5, 7, and 18 to submit to the Navy.

EPA reviewed two finding of suitability to lease documents for portions of the Inland Area in June 2004 that may be leased at NWS SBD Concord.

San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Update

Laurent Meillier (SFBRWQCB) reviewed the activities that the SFBRWQCB conducted in June 2004.

- June 10, 2004: Mr. Meillier participated in a teleconference call to discuss the draft SMP amendment. At that meeting, the RPMs discussed some potential project delays that would be caused by funding shortfalls.
- June 16, 2004: Mr. Meillier attended the monthly RPM meeting.
- July 7, 2004: SFBRWQCB attended an underground storage tank (UST) RPM meeting. During the meeting, the RPMs discussed an additional UST tank that was found at E-108. Mr. Meillier requested additional site characterization at E-108. The UST team is awaiting analytical results for confirmation samples taken at the Port Chicago Main Street Auto Repair Shop Site, where 4 water tanks were removed and no stained soil was observed. The Navy's contractor found some unexpected water pipelines lines at the Port Chicago Main Street Auto Repair Shop during excavation. After discussion at the UST meeting, Mr. Meillier contacted the Contra Costa County Water Department to ask if the pipelines found were used to transport water to facilities in the area. Contra Costa County representatives confirmed with Mr. Meillier that they did not use the pipeline at Port Chicago Main Street Auto Repair Shop for transporting water, so the purpose of the pipelines and water tanks is unknown. After the UST meeting, Mr. Meillier visited three UST sites.

SFBRWQCB reviewed and submitted comments on the following reports:

- Port Chicago Sampling and Analysis Plan (SAP)
- A-16 and E-108 SAP

Navy Update

Mr. Tyahla reviewed the RPM monthly update (Attachment C), which covers events from June 14, 2004, to July 12, 2004. Mr. Tyahla provided the RAB with copies of the presentation on the SMP amendment and provided an update on the schedule review process (Attachment D).

Mr. Skaredoff asked about the Navy's process for funding projects. Mr. Tyahla responded that the Navy schedules and funds projects in 5-year increments. Mr. Tyahla also noted that annual targets for NWS SBD Concord have been created for projects through fiscal year (FY) 2009. Mr. Tyahla said that he still needs to do more research on the Navy's budgeting process, as it is complicated; he will provide additional information at future RAB meetings if requested.

Mr. Ramsey said that EPA management has heard from EPA headquarters that funding is available for projects at NWS SBD Concord. This information is inconsistent with what he has been hearing from the Navy, which has requested project delays because of funding limitations. Once EPA completes its comments on the SMP addendum, Mr. Ramsey will forward them to the RAB.

Mr. Tyahla announced that public comments on the SMP are due on July 15, 2004. Mr. Skaredoff asked what the Navy will do with comments on the SMP. Mr. Tyahla said that the Navy would consider them, but that they would not likely affect the Navy's budget limits. Mr. Ramsey said that EPA could take the Navy through the dispute resolution process if necessary if issues are unresolved on the SMP addendum.

V. SWMU SITES 2, 5, 7, AND 18 DRAFT FINAL RI PRESENTATION

Kevin Hoch (Tetra Tech EM Inc. [TtEMI]) provided a presentation on the draft final RI for SWMU Sites 2, 5, 7, and 18 (Attachment E).

Mr. O'Brien asked why there are different standards for groundwater at different sites. Joanna Canepa (TtEMI) explained that the Navy uses guidelines from EPA and SFBRWQCB to determine whether the groundwater is potable (a potential source of drinking water). If a site is a potential source of drinking water, drinking water standards are used; if it is not (because of high dissolved solids or slow recharge rates), standards protective of ecological receptors (fish and aquatic invertebrates) are used.

Mr. Skaredoff asked if the groundwater has been characterized to determine that contamination does not migrate off site or into the soil. Mr. Hoch explained that the source of the contamination had been identified and that the extent of the groundwater plume has been characterized and is on Navy property. Because the groundwater plume has remained relatively stable over time, it is believed that the remaining contaminated soil is not a sufficient mass to increase the size of the groundwater plume. Mr. Ramsey noted that because of the relatively small mass of the soil contamination there are a number of treatment alternatives available to address the source of contamination. Mr. Tyahla explained that these alternatives would be evaluated in a focused feasibility study.

The RAB requested copies of the figures discussed during the presentation on the RI for SWMU Sites 2,

5, 7, and 18. Mr. Hoch agreed to send each RAB member a copy of the figures.

Action Item

2. Mr. Hoch will distribute copies of the figures from the presentation on the RI for SWMU Sites 2, 5, 7, and 18 figures to the RAB.

VI. NEXT MEETING AND ACTION ITEMS

The next RAB meeting will occur from 6:30 to 8:30 p.m. on August 9, 2004, at the Willow Pass Community Center in Concord, California.

The following action items and agreements were generated during the RAB meeting on July 12, 2004:

#	Action Item	Target Date for Completion	Completion Date (or Status)
1	The Navy will distribute the final RAB meeting minutes for June 7, 2004.	7/24/04	Completed 7/16/04
2	Mr. Hoch will distribute copies of the figures from the presentation on the RI for SWMU Sites 2, 5, 7, and 18 to the RAB.	7/15/04	Completed 7/16/04

ATTACHMENT A

**ATTENDEES AND AFFILIATIONS
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

JULY 12, 2004

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**ATTENDEES AND AFFILIATIONS
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

JULY 12, 2004

<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Beth Byrne	Concord Resident	(925) 686-4815
Harry Byrne	Concord Resident	(925) 686-4815
Joanna Canepa	TtEMI	(415) 222-8362
David Cooper	EPA	(415) 972-3237
Kevin Cornish*	Lafayette Resident	(925) 229-5540
Dave Custodio	Bay Point Resident	(925) 458-3464
Gregory Glaser*	Concord Resident	(925) 363-5570
David Griffith*	City of Concord	(925) 671-3427
Kevin Hoch	TtEMI	(415) 222-8304
Carolyn Hunter	TtEMI	(415) 222-8297
Libby Levy	ATSDR	(415) 947-4319
Ed McGee*	Martinez Resident	(925) 372-7043
Dean McLeod	Bay Point Resident	None provided
Laurent Meillier	SFBRWQCB	(510) 622-2440
Ray O'Brien*	Bay Point Resident	(415) 385-9220
Mario Menesini*	Walnut Creek Resident	(925) 935-1168
Phillip Ramsey	EPA	(415) 972-3006
Igor Skaredoff*	Martinez Resident	(925) 229-1371
Steve Tyahla	U.S. Navy, EFA West	(650) 746-7451
Margaret Wallerstein	U.S. Navy, Seal Beach	(565) 626-7838
Mary Lou Williams*	RAB Community Co-chair	(925) 685-1415

Notes:

ATSDR	Agency of Toxic Substances and Disease Registry
EFA West	Naval Facilities Engineering Command, Engineering Field Activity West
EPA	U.S. Environmental Protection Agency
RAB	Restoration Advisory Board
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
TtEMI	Tetra Tech EM Inc.
*	RAB Member

ATTACHMENT B

**AGENDA
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

JULY 12, 2004

(One Page)

AGENDA

NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD
RESTORATION ADVISORY BOARD MEETING

Monday, July 12, 2004

6:30 p.m. – 8:30 p.m.

Willow Pass Community Center
2748 E. Olivera Rd.
Concord, CA 94519

- 6:30 – 6:40 Call to Order
- Welcome
 - Introductions
 - Public Comments
 - August Agenda Approval
- Lead: Community Co-chair
- 6:40 – 6:50 Approval of June 12, 2004 Meeting Minutes
Review Unresolved Business
Lead: Navy Co-chair
- 6:50 - 7:30 Committee Reports/Announcements
- RAB Report
 - Remedial Project Managers' Update (Navy/EPA/DTSC/RWQCB)
 - Draft Annual SMP Amendment
- 7:30 – 7:40 Break
- 7:40 – 8:30 SWMU's 2, 5, 7, and 18 Draft Final RI
- 8:30 Adjourn

ATTACHMENT C

**NAVY REMEDIAL PROJECT MANAGER'S UPDATE
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

JULY 12, 2004

(Two Pages)



***Navy RPM Update for 12 July 2004 meeting of
Naval Weapons Station Seal Beach, Detachment Concord
Restoration Advisory Board (RAB)
Prepared by Steve Tyahla, Navy Lead Remedial Project Manager***

- Summary of Navy Remedial Project Manager (RPM) Activities since the last RAB Meeting held on Monday, 7 June 2004.
 - **10 June**- The Navy and Agencies met to discuss the development of the annually –required amendment to the Site Management Plan (see 14 June below).
 - **14 June**- The Navy issued a letter distributing the “*Draft Final Remedial Investigation Solid Waste Management Units 2, 5, 7, and 18; Naval Weapons Station Seal Beach, Detachment Concord, Concord, California*” (dated 14 June 2004). [The EPA has until 13 August to decide if the report is acceptable. This report includes the results of the soil vapor testing the Navy did in order to try and locate potential sources of the groundwater contamination; that work proved to be helpful. The Navy proposes to move on to the Feasibility Study phase for this site.]
 - **14 June**- The Navy issued a letter distributing the “*Draft Amendment to the Site Management Plan (SMP), Naval Weapons Station Seal Beach, Detachment Concord, Concord, California*” (dated 14 June 2004). [This is an annual requirement per the Federal Facility Agreement (FFA), and the Navy RPM will give a short briefing on this at this evening’s RAB meeting.]
 - **15 June**- The Navy issued a letter distributing the “*Final Meeting Minutes, Data Gaps Sampling and Analysis Plan, Tidal Area Sites 2, 9, and 11 Remedial Investigation, Naval Weapons Station Seal Beach, Detachment Concord, Concord, California*” (meeting was held 14 May 2004). [This meeting was instrumental in the Navy obtaining preliminary Agency feedback on the concepts it had for performing this data gaps work. Based on this meeting, and subsequent communications with the Agencies via phone and e-mail, the Navy is finishing and plans to submit a draft Sampling and Analysis Plan to the Agencies on 13 July.)
 - **16 June**- The Navy and Agencies held our regular Monthly RPM meeting.
 - **24 June**- The Navy issued a letter distributing the “*Draft Final Remedial Investigation Addendum Report, Taylor Boulevard Bridge (Site 30), Naval Weapons Station Seal Beach, Detachment Concord, Concord, California*” (dated 2 June 2004). [The EPA has until 26 July to decide if this report is acceptable. The report concludes the remedial investigation step for this site; however, instead of the usual next step of a feasibility study, the Navy is proposing to pursue a Non-Time-Critical Removal Action (NTCRA) to remove the waste at the site. A NTCRA still requires an engineering evaluation/cost analysis. As this progresses, the Navy will brief the RAB.]



- **24 June**- The Navy issued a letter distributing the “*Final Groundwater Sampling Summary Report for the Tidal Area Landfill (Site 1), Naval Weapons Station Seal Beach, Detachment Concord, Concord, California*” (dated 24 June 2004). [This document reports the results of groundwater sampling and testing the Navy conducted in July 2003 at the seven wells at the landfill site. The Navy will use this more recent data to bolster the database for the site’s groundwater as the Navy prepares a draft Site 1 Groundwater Investigation Sampling and Analysis Plan (SAP), which will initiate the groundwater investigation promised in the Site 1 Cover Record of Decision.]
- **24 June**- The Navy issued a letter distributing the “*Remedial Project Managers’ Meeting Minutes, Naval Weapons Station Seal Beach, Detachment Concord, Concord, California*” for the meeting held on 20 May 2004. [This was our regularly scheduled monthly meeting.]
- **26 June - Site Tour!** Six of our RAB members, our U.S. EPA Project Manager, a U.S. EPA Geologist, and the Navy and its consultant participated in a tour of the Concord Installation Restoration Program sites. A beautiful day, and the Navy appreciates the interest, especially on a gorgeous Saturday!
- **28 June**- The Navy issued a letter distributing the “*Draft Data Gaps Technical Evaluation Report for the Litigation Area, Naval Weapons Station Seal Beach, Detachment Concord, Concord, California*” (dated 28 June 2004). [Agency comments are due 27 August 2004. This document reports the results of data gaps fieldwork as well as a file review to see how well parties to our Consent Decrees have complied with those decrees.]
- **30 June & 1 July**- Navy RPM attended the regional Department of Defense (DOD) Perchlorate Workshop in San Diego. [State Agencies participated on the second day, including our SFBRWQCB representative, Laurent Meillier. The purpose of the workshop was for the DOD and the state to discuss a protocol for priority setting for sampling military bases that might impact drinking water sources. At Concord, we are arguably well ahead of the game.]
- **2 July**- The Navy issued a letter distributing the “*Draft Final Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan) for Additional Characterization at Site 13, Naval Weapons Station Seal Beach, Detachment Concord, Concord, California*” (dated 2 July 2004). [The EPA has until 5 August to decide whether this sampling plan is acceptable. In the plan, the Navy basically proposes to install four new monitoring wells and sample those, plus the existing four monitoring wells and analyze the groundwater for perchlorate over four quarters. The Navy has agree to not implement this plan until the Navy and Agencies have reviewed the results of the off base sampling that EPA intends to perform at two City of Concord irrigation wells.]

ATTACHMENT D

**SITE MANAGEMENT PLAN ADDENDUM PRESENTATION
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

JULY 12, 2004

(Three Pages)



**Overview of Annual Site Management Plan
Amendment for Installation Restoration Program
Naval Weapons Station Seal Beach,
Detachment Concord
by
Steve Tyahla, P.E., CHMM
Lead Remedial Project Manager**

12 July 2004

Outline

**"SMP" =
schedule**



- Federal Facilities Agreement (FFA) requirements for the Site Management Plan (SMP) and its annual amendment
- Process for producing this year's annual amendment to the SMP and its status
- Sample excerpt from the current Draft SMP Amendment (submitted for comment 14 June 2004)

Federal Facility Agreement requirements for SMP



- ✓ SMP defined under Sec. 2 of FFA
 - planning document
 - contains timetable, plan or schedule
 - dates and sequence of events
 - "...will be used as a management tool in planning, reviewing, and setting priorities..."

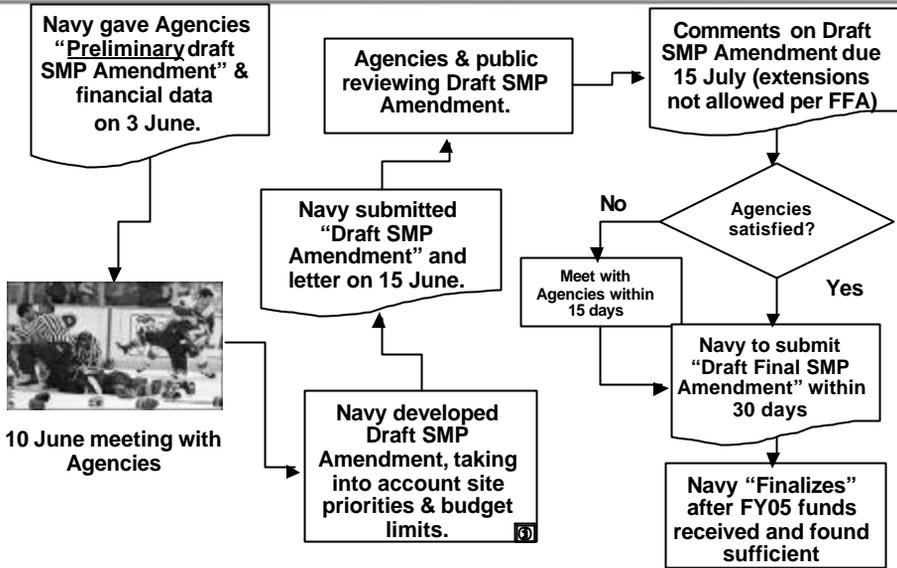
- ✓ SMP is Appendix A of the FFA; Section 11 describes contents
 - Primary document (subject to Dispute Resolution)
 - Milestones in a final amendment to SMP remain unchanged unless change is agreed to by FFA parties
 - Milestones reflect priorities agreed to by FFA parties

Federal Facility Agreement requirements for SMP



- ✓ **Annual Amendments to SMP required** (Sec. 12.4)
 - draft Amendment to SMP due by **15 June** of each year; proposed **changes in cover letter**
 - Navy to consider budget targets, and "risk plus other factors" priority-setting
 - prior to Amendment, Navy to offer to meet with other Parties to discuss changes

Annual SMP Amendment Process



Excerpt from Draft Amendment to SMP



14 June 2004 with Changes 1-7, (8,9) proposed change 5

ID	Code	Task Name	Initiation	Start	Finish	Lead	Predecessors	Comments	Priority	Security
1		1155A1 1155A2 1155A3 1, 4, 5, 6, 25, 26, & 28	1469 days	Mon 3/15/03	Wed 12/25/04					
2		Final 3 Year Periodic Review Assessment & RFC on SF	0 days	Mon 6/23/03	Mon 6/23/03				Secondary	
3		Prepare O&M Post-Inspection Action Scheduling Plan	230 days	Mon 6/23/03	Wed 8/20/04	1155A1			Secondary	
4		Develop Interim Action Scheduling Plan	0 days	Mon 6/23/03	Wed 8/20/04	1155A1			Secondary	
5		Agency Comments on O&M Post-Inspection Action Scheduling Plan	30 days	Mon 6/23/03	Mon 7/20/03	1155A1			Secondary	
6		Prepare O&M Interim Post-Inspection Action Scheduling Plan	30 days	Mon 6/23/03	Mon 7/20/03	1155A1			Secondary	
7		Final Post-Inspection Action Scheduling Plan	0 days	Mon 6/23/03	Mon 6/23/03	1155A1			Secondary	
8		Develop Comments Draft P&G&AP - Data Caps, Technical Evaluation	30 days	Mon 6/23/03	Wed 8/20/04	1155A1			Secondary	
9		Prepare O&M on Draft P&G&AP - Data Caps Technical Evaluation	30 days	Mon 6/23/03	Wed 8/20/04	1155A1			Secondary	
10		Final P&G&AP and RFC on Draft P&G&AP - Data Caps, Technical Evaluation	0 days	Mon 6/23/03	Wed 8/20/04	1155A1			Secondary	
11		Final O&M, Data Caps Technical Evaluation	133 days	Mon 6/23/03	Wed 8/20/04	1155A1			Secondary	
12		Prepare Draft Data Caps Technical Memo	133 days	Mon 6/23/03	Mon 6/23/03	1155A1		Prepare detailed O&M action plan with 14 competing priorities and schedule 24 day minimum response	Secondary	
13		Data Caps Technical Memo	0 days	Mon 6/23/03	Mon 6/23/03	1155A1			Secondary	
14		Agency Comments Draft Supplemental Data Caps Technical Memo	30 days	Mon 6/23/03	Wed 8/20/04	1155A1			Secondary	
15		Prepare Final Data Caps Technical Memo	30 days	Mon 6/23/03	Wed 8/20/04	1155A1			Secondary	
16		Final Data Caps Technical Memo	0 days	Mon 6/23/03	Wed 8/20/04	1155A1			Secondary	
17		Final 3 Year Periodic Review Assessment 12	0 days	Mon 6/23/03	Wed 8/20/04	1155A1		Not appropriate to be categorized as a separate task in the regular cycle of the O&M action	Secondary	
18		Agency Comments Draft 3 Year Periodic Review Assessment 12	30 days	Mon 6/23/03	Wed 8/20/04	1155A1			Secondary	
19		Prepare RFC Draft 3 Year Periodic Review Assessment 12	30 days	Mon 6/23/03	Wed 8/20/04	1155A1			Secondary	
20		Final 3 Year Periodic Review Assessment 12	0 days	Mon 6/23/03	Wed 8/20/04	1155A1			Secondary	

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ATTACHMENT E

**SOLID WASTE MANAGEMENT UNIT 2, 5, 7, AND 18 DRAFT FINAL REMEDIAL
INVESTIGATION PRESENTATION
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

JULY 12, 2004

(15 Pages)

**Overview of Draft Final Remedial Investigation,
SWMU Sites 2, 5, 7, & 18
Naval Weapons Station Seal Beach,
Detachment Concord**

July 12, 2004



Presentation Overview



- Orientation to Solid Waste Management Unit Sites 2, 5, 7, & 18
- Overview of Draft Final Remedial Investigation
 - Objectives
 - Previous investigations
 - HHRA
 - SLERA
 - Conclusions & Recommendations
- Questions and Answers



Background – SWMU 2



- Fire Station (Building IA-7)
- Fire-fighting training from 1969 to 1973
 - Fuel oil and napalm were burned in pit located south of IA-7



7/12/04

5



Background – SWMU 5



- Locomotive repair shop (Buildings IA-12 and 269)
 - Used for railway, automotive, construction, and weight-handling equipment repair
 - Aboveground oil supply tanks located on south side of building
 - 6,000 gallon waste oil tank was located on south side of building
 - Tank and 35 cubic yards of contaminated soil were removed in 1994



7/12/04

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Background – SWMU 7



- Buildings IA-15 and IA-16
- Building IA-15 included a metal shop, machine shop, weld shop, forge shop, tool storage area, offices, and an automotive repair shop.
- Building IA-16 served as a paint shop
- Four 11,500 gallon USTs were located beneath the paved area between Building IA-16 and IA-12
 - Tanks were removed in 1999



7/12/04

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Background – SWMU 18



- Building IA-51 and Locomotive Turntable
- Building IA-51 served as a steam cleaning facility and tire maintenance shop
- A former locomotive turntable was located east of Building IA-51
 - A sump was located 10-feet north of the turntable to collect steam cleaning water

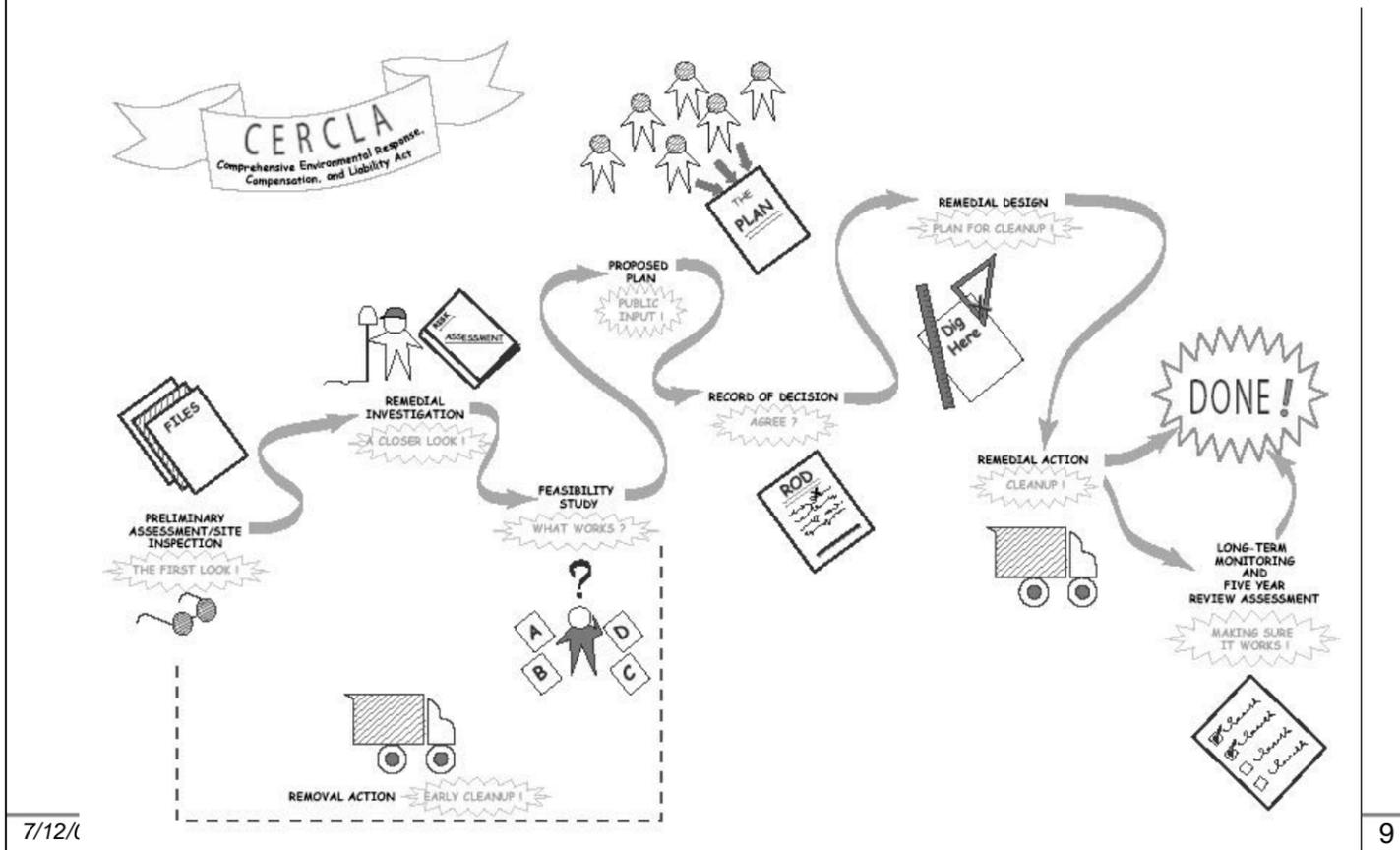


7/12/04

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CERCLA Process



Components of the Remedial Investigation



- Site Description and Background
 - History, land use, climate, regional geology and hydrogeology
 - Previous investigations
- Characterization and Results
 - Soil, groundwater and soil gas sampling results
- Conceptual Site Model
 - Migration pathways
 - Fate and transport
- Qualitative Human Health Risk Assessment
- Screening-level Ecological Risk Assessment
- Data Quality Assessment
- Conclusions and Recommendations

Follows EPA. 1988. Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA.



Goals of Remedial Investigation



- Characterize the nature and extent of VOCs in soil, groundwater, and soil gas at the site.
- Evaluate potential risk to human health and the ecosystem.

7/12/04

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Site Chronology



- 1992 to 1996 – RCRA Facility Assessment
- 1999 – Initial RI Field Work for Groundwater at Sites 2, 5, 7, & 18
- February 2002 – RI Field Work for Soil & Groundwater
- October 2002 – Draft RI Submitted
- October 2003 – Sampling and Analysis Plan for Soil Gas Survey
- Spring 2004 – Performance of Soil Gas Survey
- June 14, 2004 – Submittal of Draft Final RI

7/12/04

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Groundwater Investigation



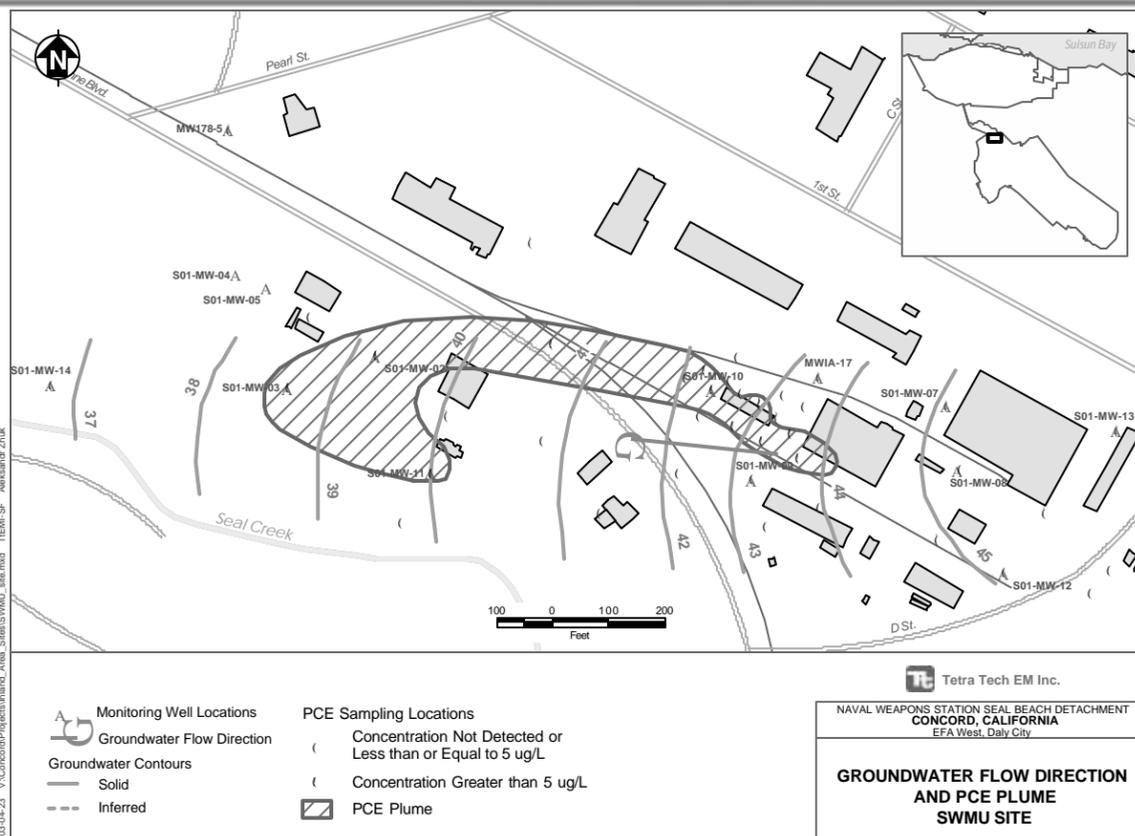
- Over 50 groundwater samples collected between 1999 and 2002; samples evaluated for SVOCs, VOCs, metals, and petroleum
- Chlorinated solvents (degreasers), primarily tetrachloroethene (PCE), and trichlorethene (TCE), are present in groundwater above drinking water standards [Maximum Contaminant Levels (MCL)]
 - Maximum site concentration: PCE @ 100 parts per billion (ppb)
 - Drinking water MCL: 5 ppb
- Wells with detections of chlorinated solvents in groundwater that did not exceed the MCL

7/12/04

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Elevated Concentrations of Volatiles in Groundwater

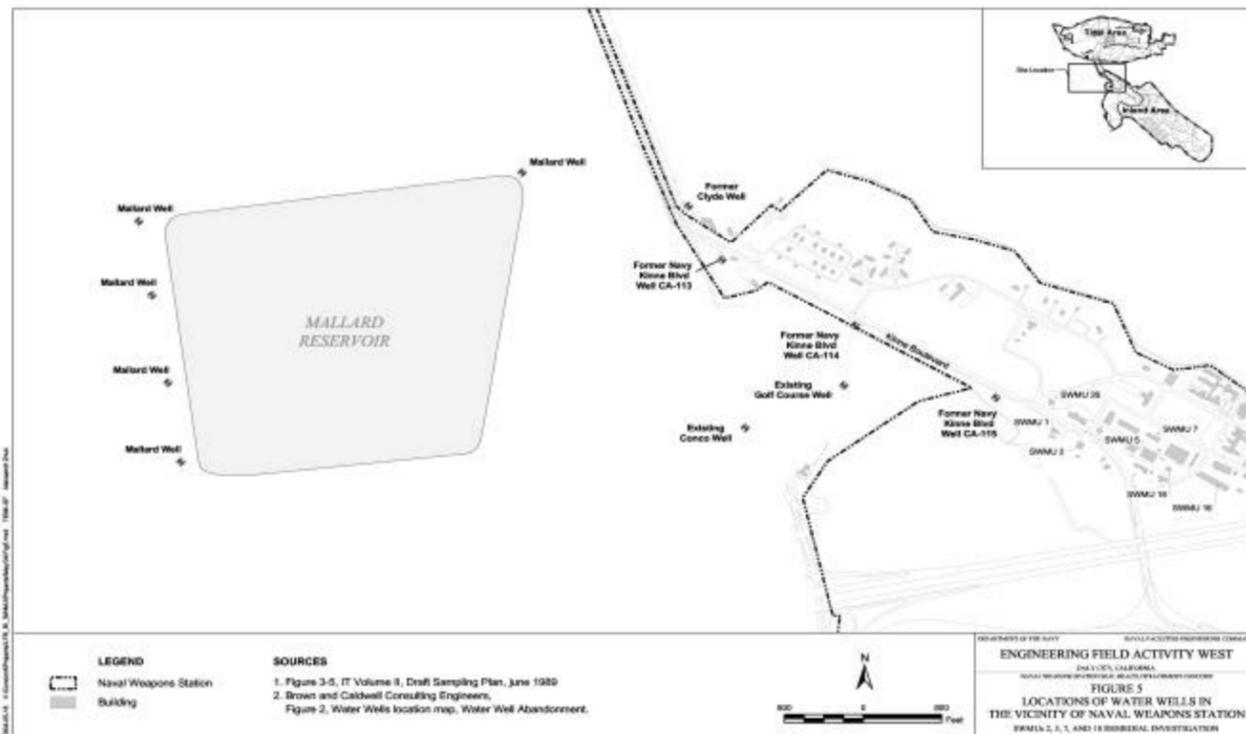


7/12/04

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Groundwater Uses in Vicinity of Site



7/12/04

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Soil Investigation



- 158 soil samples were collected from 39 locations and analyzed for TPH and VOCs
- VOCs have not significantly impacted soil at the site
 - No VOCs were detected above residential screening levels
 - PRG for PCE = 1.5 parts per million (ppm)
 - PRG for TCE = 0.005 ppm
 - VOCs were detected at only 2 locations (SB018 and SB024)
 - SB018 – TCE @ 0.002 ppm; PCE @ 0.001 ppm
 - SB024 – TCE @ 0.0006 ppm
- TPH detected was predominantly motor oil range
 - Primarily associated with SWMU 5 and the railroad spurs
 - Does not appear related to USTs or other large abandoned sources

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Soil Gas Investigation



- Initial Investigation

- 34 samples collected for mobile laboratory analysis

- 4 contained VOCs at concentrations exceeding residential screening levels

- All 4 were collected near the former waste oil tank

- Maximum concentration of PCE = 120,000 $\mu\text{g}/\text{m}^3$; screening level = 410 $\mu\text{g}/\text{m}^3$

- Mobile laboratory results confirmed through analysis at a state-certified off-site laboratory

- Step-out Investigation

- Five additional locations identified to investigate other potential sources and to encircle the area of the former waste oil tank

- No results exceeded residential screening levels

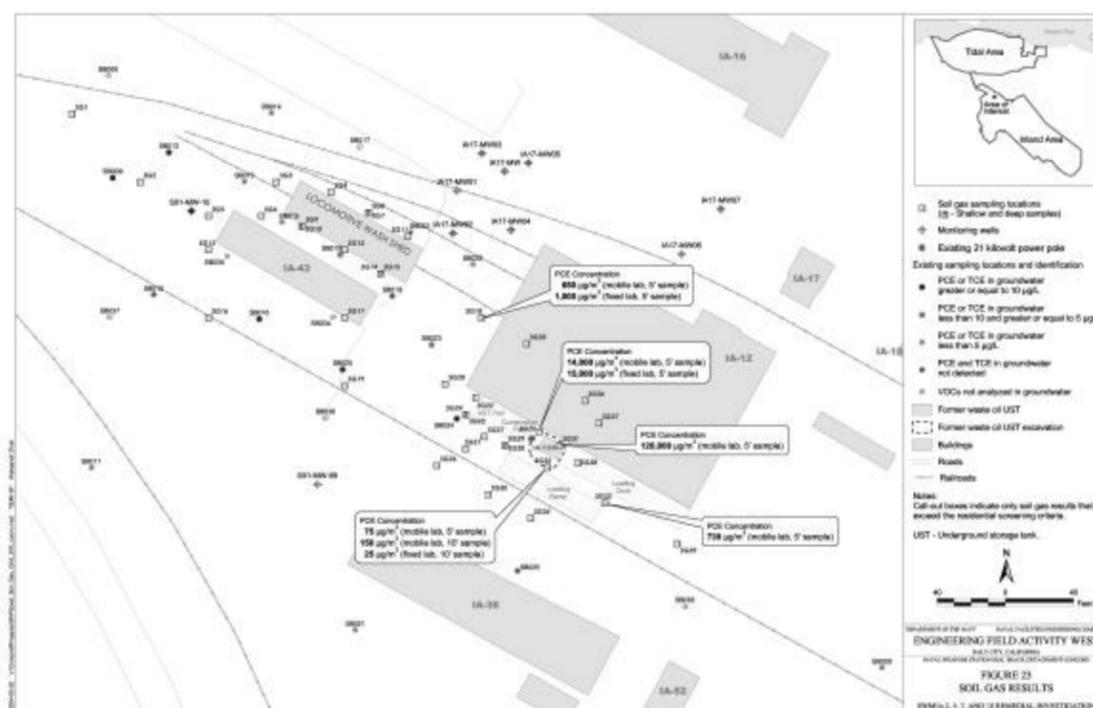
- Soil gas results indicate that the former waste oil tank is the likely source of VOC contamination at the site.

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Soil Gas Investigation Results



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Location of Former Waste Oil Tank



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Mobile Laboratory and Geoprobe Crew



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Soil Gas Survey



GeoProbe System

Bentonite Slurry

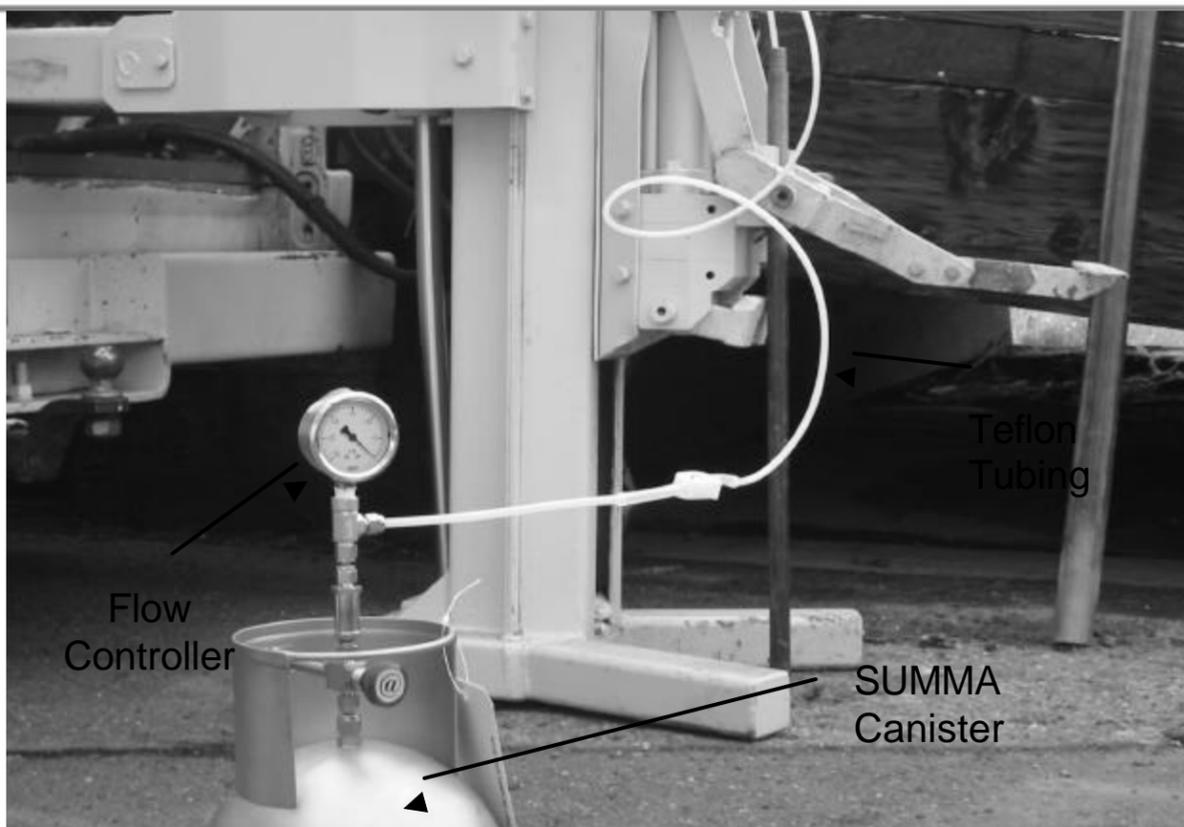


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Soil Gas Sampling Apparatus



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Mobile Laboratory (Gas Chromatograph / Mass Spectrometer)



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Qualitative Human Health Risk Assessment



- **Goal:** Assess the potential for exposure to residual chemicals at concentrations that may cause adverse health effects

- **Exposure pathways evaluated:**
 - Soil and groundwater ingestion
 - Dermal (skin) contact with soil and groundwater
 - Inhalation of soil particulates
 - Inhalation of indoor air vapors

- **Risk evaluation for possible future residential site use**

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Qualitative Human Health Risk Assessment



- VOCs in groundwater exceed agency threshold levels of concern
 - Cis-1,2- DCE, PCE, TCE, DCA, benzene, bromodichloromethane, and chloroform exceed either the MCL or tap water PRG
 - No VOC maximum concentrations exceed indirect exposure screening levels
- No VOCs in soil exceed residential screening levels
- There is significant incremental risk associated with potential exposure to PCE in indoor air under a future residential land-use scenario.
 - Based on qualitative HHRA and additional DTSC-modified vapor intrusion modeling
 - Potential PCE-related incremental risk is driven by soil gas concentrations at 2 locations located adjacent to the former waste oil tank
- Incremental risk is considered insignificant under a future industrial land-use scenario

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Screening Level Ecological Risk Assessment



- Screening level risk evaluation to protect populations of:
 - Plants
 - Fish and aquatic invertebrates in Seal Creek
 - Terrestrial invertebrates
 - Herbivorous mammals
- Site chemical concentrations in soil and groundwater are well below levels associated with ecological effects
- Results of SLERA indicate that the level of risk to ecological receptors is considered minimal

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Summary of RI Findings



- The source of groundwater and soil gas contamination has been identified
- VOC concentrations in groundwater has remained relatively consistent over time
- Contamination in soil and groundwater at the site pose minimal risk to ecological receptors
- Maximum VOC concentrations in groundwater exceed agency threshold levels of concern
- VOC concentrations in soil are below residential soil screening levels
- Significant incremental risk are associated only with potential exposure to PCE in indoor air under a future residential land-use scenario

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Recommendations



- The base is not currently a source of drinking water to the Navy
- The groundwater at the site is part of an aquifer that is a potential drinking water source
- A focused Feasibility Study is recommended to evaluate remedial alternatives
- Institutional controls will be needed and are being implemented at the base
- Groundwater monitoring on an annual basis is recommended.

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Next Steps



Agency and RAB comment period on draft final RI:

June 14, 2004 through August 13, 2004

Navy will prepare responses to agency comments on the draft final RI, and will prepare final RI, if necessary

Following finalization of the RI, the Navy will prepare a draft Feasibility Study to evaluate cleanup options for the site

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Questions

