



TETRA TECH EM INC.

September 26, 2006

Dear RAB Members,

On behalf of the Navy, enclosed please find the August 2, 2006 final RAB meeting minutes for your information and records.

If there are any questions regarding the enclosed minutes, please contact Carolyn Hunter at (415) 222-8297 or Carolyn.hunter@ttemi.com.

Sincerely,

Carolyn Hunter
Community Relations Specialist
Tetra Tech EMI

FINAL
MEETING MINUTES
RESTORATION ADVISORY BOARD
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD
CONCORD, CALIFORNIA
AUGUST 2, 2006

These minutes reflect general issues raised, agreements reached, and action items identified at the Restoration Advisory Board (RAB) meeting for Naval Weapons Station Seal Beach Detachment Concord (NAVWPNSTA Seal Beach Det Concord), California. The meeting was held from 6:30 p.m. to 8:30 p.m. on August 2, 2006, at the City of Concord Police Department Community Room in Concord, California. Agreements and action items are described by topic under Sections I through VII and are summarized in Section VIII. A list of participants and their affiliations is included as Attachment A, and the meeting agenda is included as Attachment B.

I. WELCOME, INTRODUCTIONS, PUBLIC COMMENT, AND AGENDA APPROVAL

Welcome and Introductions

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

Public Comments

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

September 2006 RAB Agenda Approval

Kim Jacobsen (U.S. Navy [Navy] RAB Co-chair) reviewed the proposed agenda for the RAB meeting on September 7, 2006. The Navy plans to provide three presentations for the September 2006 RAB meeting which include:

- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Overview from the feasibility study (FS) through remedial action (Inland Area)
- Site 1 Landfill Update (Tidal Area)
- Site Management Plan (SMP) Update (Inland Area and Tidal Area)

Ms. Jacobsen asked the RAB to approve the September 2006 agenda. The RAB voted to approve the September 7, 2006 meeting agenda.

II. JULY 2006 RAB MEETING MINUTES APPROVAL

Ms. Jacobsen asked the RAB for comments on the minutes from the meetings held on July 5, 2006. The RAB voted to approve the meeting minutes.

Action Item

1. The Navy will finalize and distribute the July 5, 2006 RAB meeting minutes.

III. COMMITTEE REPORTS AND ANNOUNCEMENTS

Ms. Williams opened the floor for committee reports and announcements. Ms. Jacobsen announced that the September, October, and November 2006 RAB meetings will be held at the Concord Library Meeting Room, 2900 Salvio Street, Concord, California 94519.

Ms. Williams stated that the RAB will discuss updating the bylaws during the September 6, 2006 meeting.

IV. REMEDIAL PROJECT MANAGER (RPM) UPDATE

Navy Update

Ms. Jacobsen reviewed the Navy RPM update (Attachment C).

Ms. Jacobsen stated that the Navy conducted a tour of the Tidal Area Sites 2, 9, and 11 with the agencies on July 18, 2006. Ms. Jacobsen stated that the Navy and the San Francisco Bay Regional Water Quality Control Board (Water Board) had an underground storage tank meeting (UST) RPM meeting on July 6, 2006.

Rick Weissenborn (U.S. Navy [Navy] Base Realignment and Closure [BRAC] Environmental Coordinator [BEC]) stated that the Navy conducted a tour of the Military Munitions Response Program (MMRP) sites with the agencies on July 18, 2006.

Environmental Protection Agency (EPA) Update

Phillip Ramsey (EPA) reviewed the EPA RPM update (Attachment C).

Mr. Ramsey stated that EPA submitted comments to the Navy on the Draft Annual Amendment to the SMP. The Navy had requested extensions on various documents for EPA to approve when they submitted the SMP. Mr. Ramsey stated that EPA did not approve all of the Navy's extension requests including the Site 27 Record of Decision (ROD). EPA and Navy management will discuss all of the extension requests prior to the Annual Amendment to the SMP going final. The RPMs discussed the agency comments on the Draft Annual Amendment to the SMP at the August 2, 2006 RPM meeting.

Mr. Ramsey stated that EPA submitted comments to the Navy on the Draft Final Supplemental Feasibility Study (FS) for the Litigation Area. EPA requested an extension for the review period of the document in order to initiate the informal dispute process. Mr. Ramsey stated that he is confident that all of the comments will be resolved on the Draft Final Supplemental FS for the Litigation Area during the informal dispute process. Mr. Ramsey stated that EPA considers the Litigation Area as a high priority cleanup site. There are high concentrations of contaminants that are impacting the surrounding habitat. EPA provided the Navy numerous general comments as well as specific comments on the proposed alternatives and their rankings. Mr. Ramsey stated that the Navy did not provide enough details on the impact of the alternatives to the surrounding habitat. EPA believes a few of the alternatives might have more potential than the Navy has captured in their review.

Mr. Ramsey stated that he attended an all day site tour on July 18, 2006 to see the Tidal Area Sites 2, 9, and 11 as well as the MMRP sites. The site tour to the Tidal Area Sites helped EPA provide comments on the sampling and analysis plan which is not going into informal dispute. Mr. Ramsey stated that the RPMs are still looking for the open detonation site which was mentioned in the MMRP Preliminary

Assessment. During the site tour, the RPMs encountered a Grey Horned Owl that was nesting in Building 23A. The RPMs will have a follow up site tour to visit the buildings that were locked up during the initial tour on August 21, 2006.

Jessica Hamburger (Contra Costa Resource Conservation District) asked if the Navy's extension request for an additional 2 years for the Site 27 ROD was because of a delay in the City of Concord's development of a reuse plan. Mr. Ramsey stated that the Navy request an extension solely to wait for the City of Concord to complete their reuse plan. EPA wants to discuss interim actions the Navy can conduct while the City of Concord is completing their reuse plan. Mr. Ramsey has recommended that the Navy test for chlordane in the mean time at Site 27. Although Site 27 is a lower priority site, EPA would like the Navy to continue work on it.

Igor Skaredoff (Martinez resident) asked if the Navy's preferred alternative for the Draft Final Supplemental FS for the Litigation Area is to let the area heal itself and conduct long term monitoring. Mr. Ramsey stated that EPA does not agree that this is an acceptable remedy for the site. The Navy has recommended monitoring in the Litigation Area until the cleanup alternative has been chosen. Mr. Ramsey stated that EPA is going to invoke informal dispute on the Draft Final Supplemental FS. Ms. Jacobsen stated that the ranking the Navy used for the alternatives discussed in the FS were developed based on engineering calculations. EPA and Navy management will meet and discuss the alternatives and ranking and make a decision on future steps for the site.

Mr. Skaredoff asked if the offsite contamination has been dealt with at the Litigation Area. Ms. Jacobsen stated that a cleanup action occurred at the Litigation Area which was done by the State of California agencies. The RPMs have a meeting scheduled for August 21, 2006 to discuss the Draft Final Supplemental FS for the Litigation Area.

Department of Toxic Substances Control (DTSC)

Jim Pinasco (DTSC) stated that he reviewed the City of Concord's revised Environmental Impact Statement (EIS) which did not include the Inland Area. DTSC is going to provide the City of Concord comments on the revised EIS which include the recommendation to add the Inland Area back in to the document.

Mr. Pinasco stated that he attended the City of Concord's community outreach event in June 2006 that outlined the upcoming community outreach activities in conjunction with the reuse of the Inland Area. Ms. Williams stated that the City of Concord provided an outline on the BRAC process which included the various community outreach activities to determine the reuse of the Inland Area at the June 2006 meeting. Mr. Skaredoff asked if the City of Concord is going to have to adhere to federal and state cleanup regulations. Mr. Weissenborn stated that the City of Concord will have to adhere to the same guidelines the Navy does in order to cleanup and reuse the property.

Water Board Update

Alan Friedman (Water Board) announced that the Water Board attended the regular UST RPM meeting on July 6, 2006. The UST RPMs discussed the Port Chicago Main Street Gas Station site where the Navy is trying to determine if there is a potentially responsible party that should cleanup the pipeline at the site.

Mr. Friedman had discussions with Ms. Jacobsen during July 2006 to assist the Navy with recommendations for water sampling and disposal at the Site 1 Tidal Area Landfill.

Mr. Friedman stated that the Water Board reviewed and began developing comments on the Draft Final Supplemental FS for the Litigation Area. The Water Board will provide the Navy with comments on the short falls of the alternatives and their rankings. The Water Board is working with the other agencies to provide comments on the document to the Navy. The Water Board has some concerns with dredging the slough bottom. The Water Board is planning on discussing their concerns with the Navy on the Draft Final Supplemental FS for the Litigation Area at the upcoming RPM meeting on August 22, 2006.

California Department of Fish and Game (CDFG)

Frank Gray (CDFG) stated that CDFG is in favor of the excavation alternatives developed in the Draft Final Supplemental FS for the Litigation Area. There are state protected birds and plants onsite which do cause concern for how to do excavation. Mr. Gray stated that his wants to make sure that the Navy is complying with applicable or relevant and appropriate requirements without compromising the habitat at the Litigation Area. Mr. Skaredoff asked if the Navy can conduct cleanup actions at the Litigation Area during times of year that the onsite animals are not nesting. Mr. Gray stated that CDFG is taking all of that into consideration. He is consulting with regional experts on how to work around the habitat prior to providing the Navy with comments on the Draft Final Supplemental FS for the Litigation Area.

VI. CERCLA OVERVIEW WITH SITE 22 AS A CASE STUDY

Mr. Weissenborn provided a presentation on the CERCLA Overview with Site 22 as a case study. The presentation is included as Attachment D.

Mr. Skaredoff asked if the arsenic contamination is evenly distributed over Site 22. Mr. Weissenborn stated that arsenic is not evenly distributed across Site 22, and that some of the more elevated concentrations are in the drainage ditches around Building 7SH5

Anna Rikkelman (Concord resident) asked for the highlights of the Site 22 Remedial Investigation. Mr. Weissenborn stated that there are unacceptable levels of arsenic at Site 22. California already has a high level of arsenic in the soil. Mr. Skaredoff asked if there is any epidemic found in Californians resulting from the high levels of arsenic. Ms. Jacobsen stated that there is not any information she has seen on epidemics resulting from high levels of arsenic in California. Joanna Canepa (Tetra Tech EMI) stated that exposure to arsenic could result in skin cancer. Mr. Ramsey stated that arsenic ingested through drinking water is a primary pathway of concern. Mr. Weissenborn stated that he would look for general information on arsenic and human health to provide the RAB. Ms. Hamburger asked if a toxicologist could come and present the health risks of arsenic ingestion to the RAB. Mr. Weissenborn stated that he would look into having a toxicologist make a presentation to the RAB.

Lisa Anich (Friends of Mount Diablo Creek) asked how the Navy deals with drafting a preliminary assessment if there are no records available. Mr. Weissenborn stated that if there are no records present for a site, the Navy would continue with a site inspection in order to find out what is there. Ms. Jacobsen stated that she has interviewed people who have historically worked at a site to find out information about the site.

Greg Glaser (Danville resident) asked when the Navy is going to conduct sampling in the residents backyards who are on the fenceline of Site 22. Mr. Weissenborn stated that through the sampling on Navy property as well as the area in between Site 22 and the neighbors there has been no indication that contamination is going off the base. Mr. Glaser asked if the agencies are concerned that the Navy is not going to conduct sampling in the neighboring properties. Mr. Ramsey stated that EPA is not concerned

that the Navy has decided not to take samples in the neighboring properties. EPA is concerned about the dust from NAVWPNSTA Seal Beach Det Concord going on to neighboring properties. Mr. Weissenborn stated that the wind pattern for the area surrounding the base is not going near the neighboring properties. In the Agency for Toxic Substances and Disease Registry (ATSDR) report they recommended that during the fire prevention disking that occurs onsite annually that the Navy water down the site to minimize dust.

Action Item

2. The Navy will provide more information including a presentation on arsenic and the risks to human health.

VII. SITE 1 TIDAL AREA LANDFILL UPDATE

Ms. Jacobsen provided a presentation on the Site 1 Tidal Area Landfill update. The presentation is included as Attachment E.

Mr. Skaredoff asked what practices the Navy will do to the Site 1 Tidal Area Landfill to winterize the site. Ms. Jacobsen stated that the Navy will put down clean soil and provide stormwater protection so that everything stays in place during the winter.

Beth Byrne (Concord resident) asked what the Navy has found in the landfill so far. Ms. Jacobsen stated that the Navy has found metal debris, wood, and construction material. Mr. Skaredoff asked what the Navy is going to do with explosives found during excavation. Ms. Jacobsen stated that explosives need to be left in place because they can be dangerous if they are exposed to light.

Ms. Williams asked how deep the Site 1 Tidal Area Landfill is. Ms. Canepa stated that landfill waste was historically placed in top of the marsh surface. Ms. Williams asked how far down in the landfill munitions can be found. Ms. Canepa stated that waste can be found approximately 4 feet down.

VIII. NEXT MEETING AND ACTION ITEMS

The next RAB meeting is scheduled for 6:30 to 8:30 p.m. on Wednesday, September 7, 2006 at the Concord Library Meeting Room.

The following action items were generated during the RAB meeting on August 2, 2006:

No.	Action Item	Target Date for Completion	Completion Date (or Status)
1	The Navy will finalize and distribute the July 5, 2006 RAB meeting minutes.	8/18/06	This action item is complete
2	The Navy will provide more information including a presentation on arsenic and the risks to human health	10/4/06	

ATTACHMENT A

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

AUGUST 2, 2006
(One Page)

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

AUGUST 2, 2006

<u>Name</u>	<u>Affiliation</u>	<u>Telephone</u>
Wayne Akiyama	Shaw Group	(925) 288-2003
Lisa Anich*	Friends of Mount Diablo Creek	(925) 689-2642
Luis Garcia-Bakarich	EPA	(415) 972-3237
Beth Byrne	Concord Resident	(925) 686-4815
Harry Byrne	Concord Resident	(925) 686-4815
Joanna Canepa	TtEMI	(425) 673-3652
Diana Davis	EMS	(925) 939-0120
Shannon Duffy	MFG	(970) 222-6693
Alan Friedman	Water Board	(510) 622-2347
Greg Glaser*	Danville Resident	(925) 363-5570
Frank Gray	CFDG	(916) 327-9961
Jessica Hamburger*	CCRCD	(925) 672-6522 X118
Carolyn Hunter	TtEMI	(415) 222-8297
Kim Jacobsen	U.S. Navy, NAVFAC Southwest	(619) 532-1448
Taly Jolish	EPA	(415) 972-3925
John Kaiser	Water Board	(510) 622-2368
Sylwester Kosowski	U.S. Navy, NAVFAC Southwest	(619) 532-1027
Phillip Ramsey	EPA	(415) 972-3006
Anna Rikkelman	Concord Resident	(925) 689-2662
Igor Skaredoff*	Martinez Resident	(925) 229-1371
Rick Weissenborn	U.S. Navy BRAC PMO West	(619) 532-0952
Cindy Welles*	Clyde Resident	(925) 685-2698
Mary Lou Williams*	Concord Resident	(925) 685-1415
Penny Wilson	TtEMI	(415) 222-8203
Michael Wright	City of Concord	(925) 671-3019

Notes:

*	Community Restoration Advisory Board (RAB) Member
CCRCD	Contra Costa Resource Conservation District
CDFG	California Department of Fish and Game
EPA	U.S. Environmental Protection Agency
IPT West	U.S. Navy Integrated Project Team West, NAVFAC SW
PMO West	U.S. Navy Project Manager Office West
TtEMI	Tetra Tech EM Inc.
Water Board	San Francisco Bay Regional Water Quality Control Board

ATTACHMENT B

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

AUGUST 2, 2006

(One Page)

AGENDA

NAVAL WEAPONS STATION SEAL BEACH (NWSSB) DETACHMENT CONCORD RESTORATION ADVISORY BOARD (RAB) MEETING

Wednesday, August 2, 2006
6:30 p.m. – 8:30 p.m.

Location: Concord Police Department Community Room
1350 Galindo Street, Concord, CA 94520

- 6:30 – 6:40 Call to Order
- Welcome
 - Introductions
 - Public Comments
 - September Agenda Approval
- Lead: Community Co-chair
- 6:40 – 6:50 Approval of July 2006 Meeting Minutes
Review Unresolved Business
Lead: Navy Co-chair
- 6:50 - 7:30 Committee Reports/Announcements
- RAB Announcements, Reports or other business
 - Remedial Project Managers' Update (Navy/EPA/DTSC/RWQCB)
- 7:30 – 7:40 Break
- 7:40 – 8:15 Presentation: A Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Overview with Site 22 as a case study (Inland Area)
Presenter: Navy
- 8:15 – 8:30 Site 1 Tidal Area Landfill Update (Tidal Area)
Presenter: Navy
- 8:30 Adjourn

NWSSB DETACHMENT CONCORD RAB Meetings are held the first Wednesday of every month, unless changed. Information regarding the Environmental Restoration program at NWSSB Detachment Concord can be found at:

- Tidal and Inland prior to December 2005 - <http://www.sbeach.navy.mil/Programs/Environmental/IR/IR.htm>

- Tidal after December 2005 – will be

https://portal.navy.mil/portal/page?_pageid=181,1&_dad=portal&_schema=PORTAL

- Inland after December 2005 - <http://www.navybracpmo.org/brac2005/bracbases/ca/concord/default.aspx>;

In addition, a public voicemail is available for questions at (925) 246-4020

NAVFAC Public Affairs Officer: Mr. Lee Saunders, (619) 532-3100, lee.saunders@navy.mil

Lead RPM Tidal Area and Navy RAB Co-Chair: Mrs. Kim Jacobsen, (619) 532-1448, kimberly.jacobsen@navy.mil

BRAC Environmental Coordinator: Mr. Rick Weissenborn (619) 532-0952, richard.weissenborn@navy.mil

Community RAB Co-Chair: Mary Lou Williams, Mlou1015@aol.com

ATTACHMENT C

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

AUGUST 2, 2006

(2 Pages)



Navy RPM/BCT Update for 2 August 2006 Meeting of Naval Weapons Station Seal Beach, Detachment Concord Restoration Advisory Board (RAB)

Summary of Navy Remedial Project Manager (RPM) Activities since the last RAB Meeting held on Wednesday, 5 July 2006.

Tidal Area

- **18 July 2006** - The Navy, USEPA, DTSC and DFG toured Site 11 to help finalize the Data Gap Sampling Plan.
- **25 July 2006** – The Navy provided draft response to RWQCB comments on Site 1 Remedial Action Workplan via email.
- **Multiple dates, July 2006** – The Navy notified agencies of issues at Site 1 Landfill Cap Construction and coordinated with agency representatives by email and phone on proposed strategies to dewater area. Issues included munitions planning, failed Aquadam, source fill material, and alternative dewatering options.

Inland Area

- **14 July 2006** – The Navy issued the Draft RI Report for Inland Area Site 22. Comments are due 12 September 2006.
- **18 July 2006** - The Navy, EPA, and DFG toured MMRP sites in the Inland Area.

Tidal and Inland Areas

- **6 July 2006** – The Navy met with the project manager from SWBRWQCB to discuss the Tank Program Status sites.
- **21 July 2006** – The Navy issued final June 6, 2006 RPM/BCT meeting minutes.
- **27 July 2006** – The Navy distributed draft Agenda and Meeting Minutes for May 3, 2006 RAB by email.
- **2 August 2006** – The Navy met with the project managers from USEPA, DTSC, DFG, and the SFBRWQCB. This was our regular monthly meeting.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

U.S. Environmental Protection Agency
Restoration Advisory Board Update
August 2, 2006

Correspondence Issued:

- C July 14, 2006: EPA Review of the Navy's June 13 and 15, 2006, Draft Annual Amendments to the Site Management Plan.
- C July 31, 2006: EPA Review of the Navy's May 26, 2006, Draft Final Feasibility Study for the Litigation Area.

Meetings/Site Visits:

- C July 5, 2006, RPM Meeting:
Major topics: Tidal Area Landfill; Munitions - Preliminary Assessment
- C July 5, 2006, RAB:
Major Topics: Litigation Area Year 1 Monitoring Report; SWMUs Treatability Study; Tidal Area Sites Sampling Plan.
- C July 18, 2006, Site Tour: Site 11, Inland Munitions Site 23A and Buildings 93, 97, and 81.
- C August 2, 2006, RPM Meeting:
Major Topics: SMP; Tidal Area Landfill Update; Litigation Area - Monitoring Report and Feasibility Study.
- C August 2, 2006 RAB Meeting:
Major Topics: Superfund (CERCLA) Overview; Tidal Area Landfill Update.

Prepared by:

Phillip Ramsey
U.S. Environmental Protection Agency
75 Hawthorne Street (SFD-8-3)
San Francisco, CA 94105
ramsey.phillip@epa.gov
(415) 972-3006

ATTACHMENT D

**A COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND
LIABILITY ACT (CERCLA) OVERVIEW WITH SITE 22 AS A CASE STUDY
(INLAND AREA) PRESENTATION
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

AUGUST 2, 2006

(8 Pages)



CERCLA PROCESS

**BRAC
PMO**

CERCLA PROCESS

Restoration Advisory Board
Naval Weapons Station Seal Beach Concord Detachment
August 2, 2006



CERCLA PROCESS

**BRAC
PMO**

Tonight's Discussion

What is CERCLA?

Why is there a "Process"?

What is the Process?

How does it apply to the Inland Area?



CERCLA PROCESS

**BRAC
PMO**

What is CERCLA?

Comprehensive Environmental Response, Compensation, and Liability Act
"Superfund"

Title 42 United States Code, Chapter 103

Enacted December 11, 1980

SARA

Superfund Amendments and Reauthorization Act

Enacted October 17, 1986



CERCLA PROCESS

**BRAC
PMO**

Why is there a "Process"

Respond to releases or threatened releases of hazardous substances that may endanger public health or the environment

What are releases?

What are threatened releases?

What are hazardous substances?

How do you know public health is endangered?

How do you know the environment is endangered?



CERCLA PROCESS

**BRAC
PMO**

What is the Process?

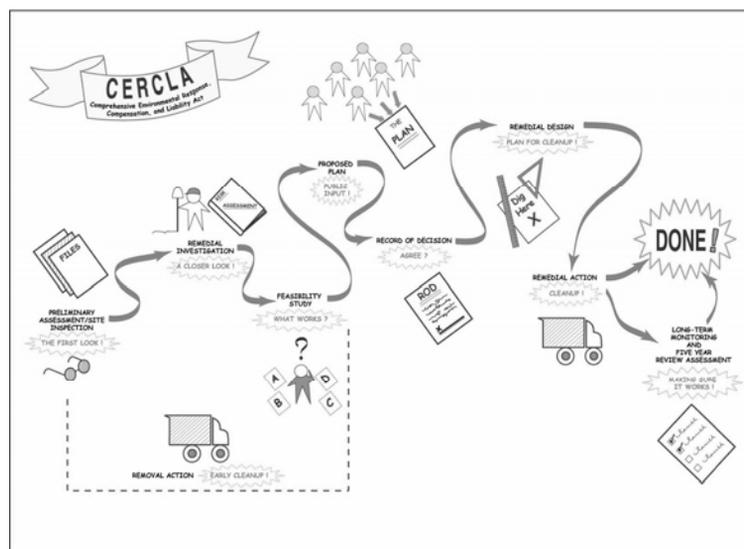
Preliminary Assessment/ Site Inspection
Remedial Investigation/Feasibility Study
Proposed Plan
Record of Decision
Remedial Design
Remedial Action

Five Year Reviews



CERCLA PROCESS

**BRAC
PMO**





CERCLA PROCESS

**BRAC
PMO**

What is the Process?

Preliminary Assessment/Site Inspection

First Look

Records Review

Site Tour

Nonintrusive Sampling

Limited Intrusive Sampling



CERCLA PROCESS

**BRAC
PMO**

What is the Process?

Remedial Investigation

Nature and Extent

Human Health Risk Assessment

Ecological Risk Assessment

Problem?

No --> NFA ROD

Yes --> FS



CERCLA PROCESS

**BRAC
PMO**

How is CERCLA Applied to Inland Area?



↑
N



CERCLA PROCESS

**BRAC
PMO**

Inland Area IR Site 22

Initial Assessment Study - IAS

1983

Records Search

Site Visits

Interviews

Site Investigation

1992

Assess Presence or Absence of Contaminants

Recommended Further Investigation



CERCLA PROCESS

**BRAC
PMO**

Inland Area IR Site 22

Remedial Investigation – Phase I

1995

Focus on Building 7SH5

Soil Samples – Arsenic

Groundwater Samples - TCE

Remedial Investigation – Phase II

1997

Confirm/Refute Groundwater Contamination

Locate source

No Groundwater Contamination



CERCLA PROCESS

**BRAC
PMO**

How is CERCLA Applied to Inland Area?



2 /



CERCLA PROCESS

**BRAC
PMO**

Inland Area IR Site 22

Supplemental Remedial Investigation

2004

Arsenic Nature and Extent

Groundwater Characterization

Metals, pesticides, herbicides, explosives, perchlorate, VOCs,
SVOCs

2005

Arsenic Transport

No Apparent Off-Site Transport



CERCLA PROCESS

**BRAC
PMO**

Inland Area Site 22

Problem?

Yes

[As]

Residential Risk

Feasibility Study



CERCLA PROCESS

**BRAC
PMO**

Questions?

ATTACHMENT E

**SITE 1 TIDAL AREA LANDFILL UPDATE (TIDAL AREA) PRESENTATION
RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD, CALIFORNIA**

AUGUST 2, 2006

(9 Pages)



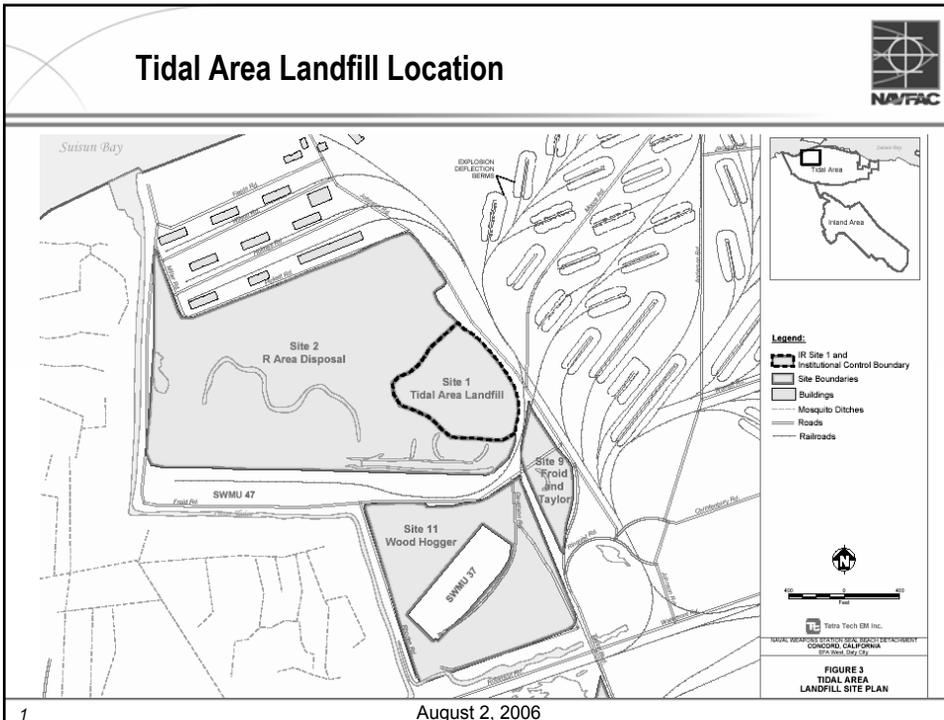
Tidal Area, Site 1 Landfill Cap Construction Progress Update

Naval Weapons Station Seal Beach
Detachment Concord

presented by
Kim Jacobsen, P.E.
Lead RPM NAVFAC, Southwest

August 2, 2006

Tidal Area Landfill Location



HISTORY REVIEW

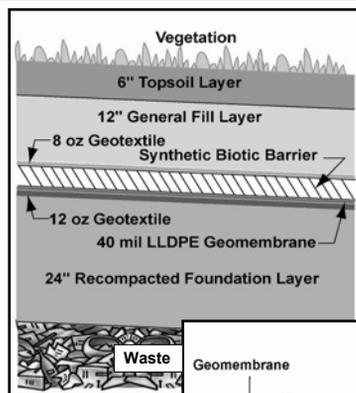


- **ROD signed by Navy, EPA, and DTSC (March, May, & June 2004)**
- **Landfill Cap Design**
 - Final Design (completed June 2005)
 - Final Design Revision (completed February 2006)
 - Design Modification to make cap more protective (completed May 2006)
- **Landfill Cap Construction by TN & Associates**
 - **Phase I awarded (September 2005)**
 - Construction of gas monitoring probes (completed October 2005)
 - Remedial Action Work Plan
 - Draft Remedial Action Work Plan (October 18, 2005)
 - Draft Final Remedial Action Work Plan (March 6, 2006)
 - **Phase II cap construction awarded March 2006**
 - Pre-Construction work started April 4
 - Clearing and Grubbing started June 12; toe excavation started June 14
 - Plan: Construction 6/14/2006-9/13/06, Vegetation Establishment 9/14/2006-4/4/2007
- **Future: 30 Years of Groundwater Monitoring and Periodic Cap Inspection & Maintenance**

2

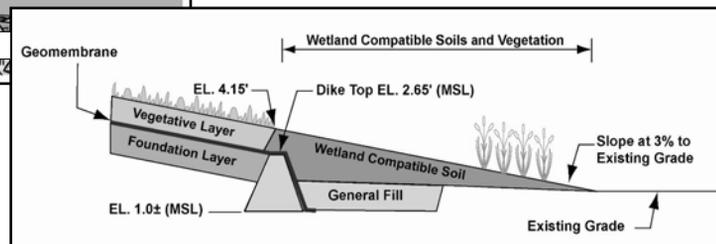
August 2, 2006

DESIGN CROSS SECTIONS



Cap Detail

Perimeter Dike Detail



3

August 2, 2006

JUNE 7, 2006 RAB SITE VISIT



Thank you for being nice to this guy – my boss!



4

August 2, 2006

JUNE 7, 2006 RAB SITE VISIT



Mary Lou, Alan, and Phillip get to work!



5

August 2, 2006

JUNE 7, 2006 RAB SITE VISIT



21 Attendees + Construction Contractor (TN&A/ERRG)

- Public
- RAB Members
- City of Concord
- Navy
- Navy Contractors
- USEPA
- RWQCB
- Fish and Game



6

August 2, 2006

PRE-CONSTRUCTION LANDFILL CONDITION



7

August 2, 2006

POST START-CONSTRUCTION LANDFILL CONDITION



**Surface
has been
cleared
and
grubbed**

POST START-CONSTRUCTION LANDFILL CONDITION



AQUADAM



**Temporary dam
built around
landfill to keep
water out**



Placement

10

August 2, 2006

CONSTRUCTION ISSUES

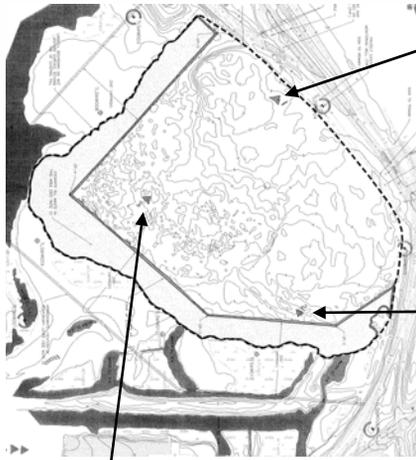


- **June 14-16, 2006:** Multiple munitions uncovered during first three days of waste excavation/grading. Area secured. Travis Air Force Base Explosive Ordnance Division (EOD) responds taking inert items. Unable to obtain Travis response June 16 for third item initially deemed inert.
- **June 27, 2006:** Initially inert item reexamined; deemed potentially explosive June 30.
- **June 30, 2006:** While securing third item, find fourth item deemed potentially explosive
- **June 30, 2006:** Naval Ordnance Safety and Security Agency (NOSSA) cancels waiver and requires stop work and Explosive Safety Submittal. Item four secured
- **July 6, 2006:** Travis EOD performs Level I Emergency Response and detonates item 4 in place, leaves with item 3.
- **July 10-12, 2006:** Aquadam failures (perimeter and Baker road)
- **July 13, 2006:** Kim pulls out her hair.

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August 2, 2006

MUNITIONS FOUND (MUNITIONS DEBRIS)



One inert MK100 Series PD Fuse found June 14



Some of 25 inert 100 pound AN-M47 Series bombs discovered during excavation found June 15 in same area as one 250lb M57 series bombs. All filled with sand.

One 7.2inch WWII-era "Hedgehog" Depth Rocket found June 16

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August 2, 2006

MUNITIONS POSSING POTENTIAL EXPLOSIVE HAZARD



Travis (EOD) detonated open "Hedgehog" in place and took intact "Hedgehog" for proper disposal.

June 30: Found open "Hedgehog" on way to secure first "Hedgehog." Both secured here.



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August 2, 2006

AQUADAM FAILURE



Sandbag wall 90 feet across x 4 feet deep built with pre-filled sandbags; must be placed by boat due to NOSSA direction of no pressure or crossing of landfill.

Emergency sandbagging operation executed July 13-18 to isolate water that has come into contact with exposed landfill waste due to AQUADAM failure.



CONSTRUCTION AND MAINTENANCE SCHEDULE



PLAN WAS	ACTIVITY	PLAN NOW (ESTIMATE)
4/6/2006 – 6/1/2006	Preconstruction Activities	Completed
6/14/2006 – 9/13/2006	Landfill Cap Construction	6/14/2006-6/16/2006
	Baker Road Repair and Dewatering	8/14/2006-8/25/2006
	Prepare Explosive Safety Submittal and obtain approval	7/10/2006-8/25/2006
	Waste excavation, then button up for winter (including Storm Water pollution prevention measures)	9/11/2006-10/30/2006 (before wet season begins)
	Site Prep, dewater, and finish construction	SUMMER 2007 (after wet season)
9/14/2006 – 4/4/2007	Vegetation Establishment	SEPT 2007-APRIL 2008
2007 – 2037	Post Closure Maintenance and Monitoring	2008-2038

QUESTIONS ?

