



# Final NAVAL AIR STATION ALAMEDA Restoration Advisory Board (RAB) Meeting Minutes

January 8, 2015

[www.bracpmo.navy.mil](http://www.bracpmo.navy.mil)

950 West Mall Square, Alameda City Hall West  
Room 140, Community Conference Room  
Alameda Point  
Alameda, California

The following participants attended the meeting:

### Co-Chairs:

Derek Robinson      Base Realignment and Closure (BRAC) Program Management Office  
(PMO) West, BRAC Environmental Coordinator (BEC), Navy Co-Chair

Susan Galleymore      Restoration Advisory Board (RAB) Community Co-Chair

### RAB Members

Richard Bangert, Carol Gottstein, M.D., George Humphreys, Skip McIntosh, Bert Morgan; Kurt Peterson; Victor Quintell; Bill Smith; Dale Smith; Jane Sullwold; Jim Sweeney; Michael John Torrey

### Community Members/Public Attendees

Mayor Trish Spencer, Councilmember Jim Oddie, Robert Sullwold

### Regulatory Agencies and City

James Fyfe, California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC); Yemia Hashimoto, California Regional Water Quality Control Board (Water Board); Xuan-Mai Tran U.S. Environmental Protection Agency (US EPA)

### U. S. Navy

Bill McGinnis; BRAC PMO West, Lead Remedial Project Manager; Bob Sevcik, Remedial Project Manager

### Contractors

Pete Everds, Tetra Tech; Jessica O'Sullivan, Tetra Tech, Inc.; Peter Russell, Russell Resources; Ray Seamons, Tetra Tech; Tommie Jean Valmassy, Tetra Tech

## MEETING SUMMARY

### I. Welcome and Introductions

Derek Robinson (RAB Navy Co-Chair) called the January 2015 RAB meeting to order and initiated a round of introductions. The agenda is [Attachment A](#).

## **II. Co-Chair Announcements**

Mr. Robinson referred to the 2015 RAB calendar ([Attachment B.](#)) He said the Navy would like to add the annual tour to the calendar, and would like RAB input on the date and format for the tour. The tour can be conducted as it was last year, with one bus for RAB and community members, or it can be kept just for RAB members. RAB members discussed the options and made the following points:

- RAB members have more detailed questions, so a separate tour for RAB members would be good
- A tour during the week cannot start earlier than the RAB meeting time (6:30p.m.) because it is too difficult for all RAB members to get there
- A tour for community members must be on a Saturday to get good attendance
- Two tours on one day, a Saturday morning for the community and later in the afternoon for RAB members, might be a good option

Mr. Robinson said the RAB should continue to talk about it; ideally a tour will be held in June or July. The Navy needs a decision approximately two months before a tour will be held in order to reserve a bus and advertise.

Mr. Robinson said the Alameda Point BRAC team was nominated for a Chief of Naval Operations (CNO) award for progress in 2013/2014. A full list of nominees is not yet available; winners will be announced in March.

Susan Galleymore (RAB Community Co-Chair) thanked Carol Gottstein for inviting councilmember Jim Oddie, present at this meeting. Dr. Gottstein said she also invited Frank Matarrese, who may attend a future meeting; Dr. Gottstein will continue to send RAB meeting invitations to the City Council.

Ms. Galleymore also thanked Jane Sullwold (RAB Community Vice Co-Chair) for implementing a new review process for the RAB meeting minutes. Ms. Sullwold said next time her goal is to send the minutes to the RAB 3-4 weeks earlier, to allow for two rounds of review. The first round is the opportunity to read the minutes, provide edits, and track changes. Ms. Sullwold will compile those edits and send them to the RAB for a second review. Then at meetings the RAB would only need to vote to approve the minutes as final. Ms. Sullwold requested that RAB members focus primarily on editing only what they said. She also requested that if further discussion is needed, it be discussed during the RAB comment period rather than during approval of minutes. George Humphreys (RAB member) said the RAB has never received a hard copy of final minutes; Mr. Robinson said RAB members will receive a copy of the final minutes from now on, and the attachments will be included with those rather than with the draft minutes. Peter Russell (Russell Resources) and Mr. Robinson both said they would like to be included on the electronic review distribution; Ms. Sullwold said she will include Dr. Russell, Mr. Robinson and all agency members who were present on her electronic distribution.

## **III. Community and RAB Comment Period**

There were no RAB or community comments at this time.

#### **IV. Site 2 Remedial Action Completion Report**

Bob Sevcik (Navy) introduced Pete Everds (Tetra Tech) to provide the update on Site 2 ([Attachment C](#)). Mr. Everds said the purpose of the Remedial Action Completion Report (RACR) is to document the successful completion of the remedy at Site 2.

During the review of slide 5, Bill Smith (RAB member) asked what the contaminants of concern (COCs) are at Site 2. Mr. Everds said there are metals and pesticides in groundwater. Mr. B. Smith asked if radionuclides are a concern at Site 2; Mr. Everds said radionuclides are a COC in Site 2 soil, but not in groundwater. Bill McGinnis (Navy) added that the COCs were at concentrations below remedial goals (RGs) for the site, so there was no active remediation for groundwater.

During the review of slide 7, Dale Smith (RAB member) noted that the site had been recontoured. Ms. Smith asked how many, if any radionuclide anomalies were found. Mr. McGinnis said that around one hundred were found and removed. She asked if the field team scanned the soil before they moved it. Mr. Everds said the contouring was engineered to minimize how much soil had to be moved, and they scanned the “cut” areas where they moved soil – approximately 13,000 square feet. [Note: Ms. D. Smith and George Humphreys (RAB member) both recorded that Mr. Everds estimated 30 cubic yards of soil had been scanned. If the square footage of the scanned cut areas is 13,000, and the cuts were just one foot deep that would equal approximately 400 cubic yards, not 30.]

During the review of slide 9, Mr. Everds showed a cut where the team was removing soil to contour the area, and indicated some of the debris found buried. Ms. Galley more asked what types of items were uncovered. Mr. Everds said the field team found varied items, including tires, cable, wood, and concrete. He added that, overall, the team did not encounter much debris because they were trying not to move too much dirt. Kurt Peterson (RAB member) asked what dates the landfill was in use. Mr. McGinnis said the landfill was used from 1956 – 1978.

During the review of slide 13, Mr. Everds showed the rodent barrier. He said it is a rigid material, approximately 220 millimeters thick, laid to overlap by approximately 1 foot. It is not sealed, but is kept in place with gravity. Mr. Everds said this type of rodent barrier has been used at China Lake and several other landfills.

During the review of slide 15, Ms. D. Smith asked about the white pole in the photograph. Mr. Everds confirmed it is part of the methane perimeter system. Some were damaged during site preparation, but have been repaired. They have been lowered so they are now about knee-high, and have also been painted a buff color. Ms. D. Smith said she was referring to the pole that looked like it could be a monitoring well around which the soil had been removed. Mr. Everds said that was correct. She asked if heavy-duty caps had been put on the wells, rather than the temporary caps. Mr. Everds said traffic-rated vaults with traffic-rated lids have been installed.

During the review of slide 17, Richard Bangert (RAB member) asked if the seeding being shown is the seed mixture selected by the RAB. Mr. Everds said for the most part the seed mix, which was sprayed in December 2013 and May or June 2014, is the one selected by the RAB. It was an expensive mixture, so they did not use the mixture recommended in all of the area. Ms. D. Smith noted the time stamped photo indicating some of the hydroseeding took place in June. Ms. D. Smith said the native seeds should have been seeded in the winter. Mr. Everds said a primary goal of the seeding is to promote stabilization and prevent erosion. Mr. Sevcik said the operations and maintenance program will assess the vegetation in spring and determine what needs to be done. The Navy and its contractors anticipate a couple of years for the seeds to properly take root. Ms.

D. Smith said the items that are currently growing at the site, such as thistle, will crowd out the native seeds.

During the review of slide 20, Ms. D. Smith asked if there was any restoration of the bunkers at the site. Mr. Everds said the doors were welded shut for safety. Otherwise, the bunkers were left in place and they are still covered with ice plant. Mr. Bangert asked about the bar located in the upper left portion of the photograph on the right; Ray Seamons (Tetra Tech) said it is a matting lined with rip-rap for drainage.

Mr. Everds noted the photograph on the right, taken June 9, 2014, reflects the completed project; no work has been done since then.

During the review of slide 22 Ms. D. Smith asked if a gate had been put in. Mr. Everds said no gate had been installed. Mr. Peterson asked the range of depth for the subgrade. Mr. Everds said it varies from four inches to six feet, and the cover is two feet.

## **V. Site 32 Remedial Investigation/Feasibility Study**

Mr. McGinnis presented the Site 32 update ([Attachment D](#)). Site 32 is also known as the Northwest Ordnance Storage Area, and it is the last site at Alameda going through the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process. Mr. McGinnis said over time the boundary of the site has expanded. Ms. D. Smith asked if the Navy conducted additional groundwater sampling in the area added to Site 32, the southern portion of the current site. Mr. McGinnis said he will find out and let the RAB know.

During the review of slide 8, Mr. Peterson asked if the groundwater contaminant levels were above action levels, and Ms. D. Smith asked if the Navy conducted remediation for groundwater at Site 32. Mr. McGinnis said the groundwater contaminant levels originally were above action levels; however, the levels have naturally attenuated, so remediation for groundwater no longer needs to be done at the site. Mr. McGinnis said radiological scans were conducted at Site 32. The Navy collected biased samples in the locations with the highest gamma scan readings. There were two areas with discrete items, two areas with diffuse items, and in the other 26 locations nothing was recovered.

During the review of slide 9, Ms. D. Smith asked how far apart the 602 grid samples were collected. Mr. Humphreys estimated that, based on the number of samples and the acreage, samples were probably approximately 60 feet apart. Ms. Galleymore asked when the runways were put in place; Mr. McGinnis said the area was used as a landfill between 1946 and 1956 and the runways were extended around 1956.

During the review of slide 10, Ms. D. Smith asked if the Navy could determine what the two found anomalies were. Mr. McGinnis said one was a toggle switch and the others were pieces of glass. Mr. McGinnis emphasized that this investigation confirmed there is no widespread radiological contamination at Site 32. Mr. Peterson asked how the radium-226 got on site and if it is from dredged fill. Mr. McGinnis said the site conceptual model is not consistent with dredging as the source, but is consistent with grading for the runway.

Mr. Bangert said he is concerned that the bunker will remain in place because it is an eye-sore. Unlike other areas of Alameda Point, there is no developer who might pay to remove it in order to build. Mr. Bangert said he is concerned the City of Alameda will be unable to afford to remove it, or unable to get radiological clearance in order to do so. Mr. Robinson clarified that the bunker has been radiologically cleared.

Mr. Peterson asked for clarification about why the Navy conducted radiological scans at Site 32 and asked if they used the cart (towed array). Mr. McGinnis said the study at Site 32 was performed to delineate the extent of the radiological contamination.

Ms. D. Smith asked the regulators to specifically review and comment on the ecological considerations for Site 32 when the Remedial Investigation/Feasibility Study is issued.

**VI. Approval of Meeting Minutes/Review Action Items**

Ms. Sullwold asked for additional comments on the draft November 2014 minutes. A correction that was made was reversed. Other minor edits will be incorporated along with the rest of the tracked changes provided by RAB members. The minutes were approved with the preceding changes incorporated, with Ms. D. Smith and Skip McIntosh abstaining from the vote. The final minutes will be distributed to the RAB in the next RAB mailer. The next RAB meeting will be held on Thursday, March 12, 2015, at 6:30 p.m. The meeting was adjourned at 8:38 p.m.

<b>Action Items:</b>	<b>Previous Item #/ Action Item Status/ Action Item Due Date:</b>	<b>Initiated by:</b>	<b>Responsible Person:</b>
1. Request for Presentations: a. OU-2A Tarry Refinery Waste and Rail Cars	Pending	RAB	Mr. Robinson
2. Navy to look into video-conferencing capabilities at various Alameda locations.	Ongoing	RAB	Mr. Robinson
3. Send the Remedial Design/ Remedial Action Work Plan along with responses to comments for Site 1 to Dale Smith	In progress; a copy was sent to Ms. D. Smith but has not been received by her	Ms. D. Smith	Ms. Sabedra
4. Check the Site 1 Final Workplan Appendices for the Loma Prieta reference, so that document can be tracked down.	Ongoing	RAB	Mr. Robinson
5. Find out if Navy conducted additional groundwater sampling in the area added to Site 32, the southern portion of the current site	New	Ms. D. Smith	Mr. McGinnis

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## **ATTACHMENTS**

### **NAVAL AIR STATION ALAMEDA RESTORATION ADVISORY BOARD MEETING ATTACHMENTS**

- A. Naval Air Station Alameda Restoration Advisory Board Meeting Agenda, January 8, 2015 (1 page)
- B. RAB Calendar 2015
- C. Remedial Action Completion Report, IR Site 2 (23 slides)
- D. Site 32 Update (13 slides)

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# ***RESTORATION ADVISORY BOARD***

***NAVAL AIR STATION, ALAMEDA***

## ***AGENDA***

**JANUARY 8, 2015, 6:30 PM**

**ALAMEDA POINT – 950 WEST MALL SQUARE, ALAMEDA CITY HALL WEST  
SUITE 140/COMMUNITY CONFERENCE ROOM**

**(FROM PARKING LOT ON W. MIDWAY AVENUE, ENTER THROUGH MIDDLE WING)**

<b><u>TIME</u></b>	<b><u>SUBJECT</u></b>	<b><u>PRESENTER</u></b>
6:30 – 6:35	Welcome and Introductions	Community and RAB
6:35 – 6:45	Co-Chair Announcements	Co-Chairs
6:45 – 7:15	Community and RAB Comment Period*	Community and RAB
7:15 – 7:45	Site 32 Remedial Investigation/ Feasibility Study	Navy Representative
7:45 – 8:15	Site 2 Remedial Action Completion Report	Navy Representative
8:15 – 8:30	Approval of Minutes	RAB
8:30	RAB Meeting Adjournment	

\* If there is time at the end of the agenda, additional comments will be taken.

# Alameda Point Restoration Advisory Board Schedule 2015

<b>January</b>	<b>Feb</b>	<b>Mar</b>
<b>Thursday, January 8</b> – RAB Meeting, 6:30 – 9 PM, Building 1, Alameda Point		<b>Thursday, March 12</b> – RAB Meeting: 6:30-9:00 pm, Building 1, Alameda Point
<b>April</b>	<b>May</b>	<b>June</b>
	<b>Thursday, May 14</b> – RAB Meeting: 6:30-9:00 pm, Building 1, Alameda Point	
<b>July</b>	<b>August</b>	<b>September</b>
<b>Thursday, July 9</b> – RAB Meeting: 6:30-9:00 pm, Building 1, Alameda Point		<b>Thursday, September 10</b> – RAB Meeting: 6:30-9:00 pm, Building 1, Alameda Point  Co-chair and Vice Co-chair Nominations
<b>October</b>	<b>November</b>	<b>December</b>
	<b>Thursday, November 12</b> – RAB Meeting: 6:30-9:00 pm, Building 1, Alameda Point  Co-chair and Vice Co-chair Election	



## Welcome



### **Remedial Action Completion Report**

Installation Restoration Site 2, Alameda Point

### **Restoration Advisory Board (RAB) Meeting January 8, 2015**

Ray Seamons and Pete Everds, Tetra Tech EC, Inc.

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## Introduction



- January 27 submittal date for Draft RACR
- 2 month review period
- Purpose of RACR
- Summary of RACR
- Q & A

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## 1.0 Overview



### **Soil and Groundwater Remedy—Alternative 2:**

- Installation of an engineered soil cover to isolate buried waste and soil contaminants and prevent animal burrowing
- Implementation of engineering controls and land-use controls (LUCs) to protect human health and soil cover integrity
- Provision for any necessary wetlands mitigation if impacts to wetlands occur
- Monitoring of the soil cleanup action and wetlands mitigation to ensure their proper construction and long-term effectiveness
- Conducting methane gas monitoring as necessary

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## 3.0 Remedial Action



- **Site prep and surveys**
  - Removal of radiological items
  - Complete subgrade: cut, fill, grading
  - Importing soil by barge
  - Animal intrusion barrier

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### 3.0 Remedial Action



- Site prep and surveys
- **Removal of radiological items**
- Complete subgrade: cut, fill, grading
- Importing soil by barge
- Animal intrusion barrier



### 3.0 Remedial Action



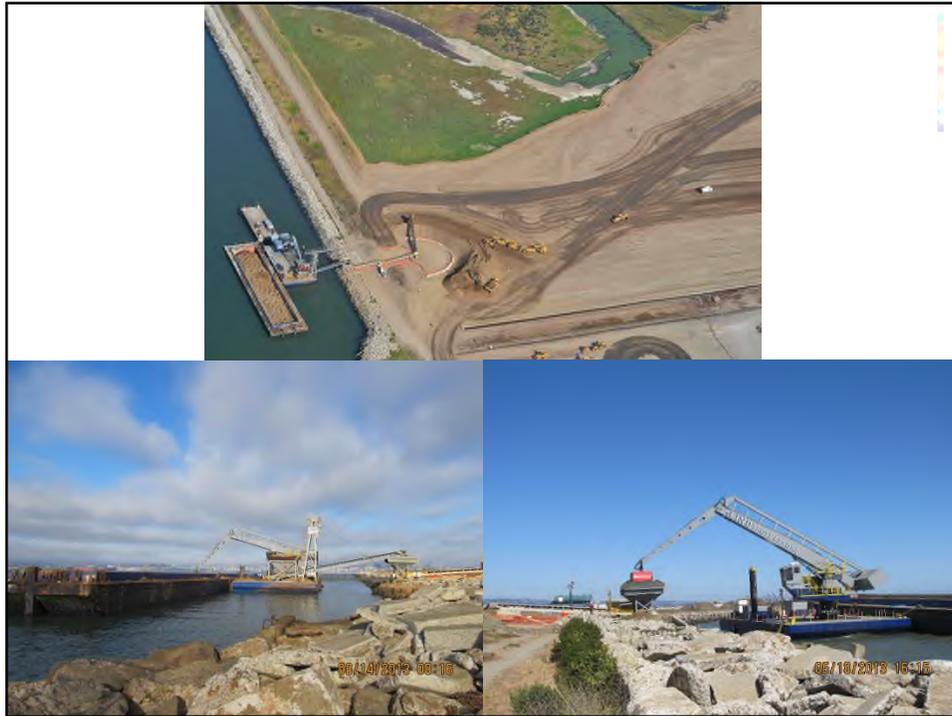
- Site prep and surveys
- Removal of radiological items
- **Complete subgrade: cut, fill, grading**
- Importing soil by barge
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### 3.0 Remedial Action



- Site prep and surveys
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### 3.0 Remedial Action



- Site prep and surveys
- Removal of radiological items
- Complete subgrade: cut, fill, grading
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- **Animal intrusion barrier**



### 3.0 Remedial Action (cont)



- 2-foot thick cover soil
- Hydroseeding
- Wetlands mitigation
- Tidal culvert replacement



### 3.0 Remedial Action (cont)



- 2-foot thick cover soil
- **Hydroseeding**
- Wetlands mitigation
- Tidal culvert replacement



### 3.0 Remedial Action (cont)



- 2-foot thick cover soil
- Hydroseeding
- **Wetlands mitigation**
- Tidal culvert replacement





### 3.0 Remedial Action (cont)



- 2-foot thick cover soil
- Hydroseeding
- Wetlands mitigation
- **Tidal culvert replacement**

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## 4.0 Demonstration of Completion



- Detailed description of how remedy achieved five RAOs
- Radiological controls
- Subgrade, animal barrier, cover layer



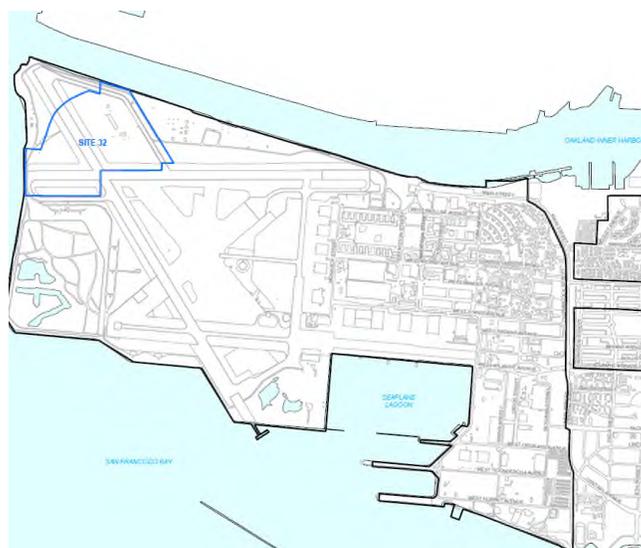
# IR Site 32 Update



January 2015



# Site Location





## Revised Remedial Investigation and Feasibility Study



- Final Feasibility Study Report (2008)
- Radiological Characterization Survey (2012)
- Additional Radiological Investigation (2013)
- Updated the Conceptual Site Model to reflect addition of expanded area and Site 1 areas
- Updated radiological risk assessment
- Evaluate remedial alternatives for soil



## Remedial Investigation Summary (2008)



- No further action for soil
- Groundwater not a drinking water source
- Potentially unacceptable risk under residential scenario for VOCs in groundwater (indoor air pathway)





## Time Critical Removal Action Summary



- ✓ Time Critical Removal Action (Sites 1, 2, and 32)  
Report – August 2009

### Conclusions:

- Low levels of radium-226 found in soil to a greater extent than anticipated.
- Lateral extent of radium-226 not defined to the south of Site 32 and east of Site 1.
- Include portions of Site 1 into Site 32 (Areas 2b, 3a, and 3b)



## Groundwater Monitoring Wells



- ✓ Installation of three monitoring wells – June 2010.

### Objective:

- Confirm the current maximum concentrations in the VOC groundwater plumes for the three chemicals of concern: TCE, chlorobenzene, and vinyl chloride.
- Assess whether radiological contamination has affected groundwater

### Sampling results:

- VOC results below the screening criteria
- Radiological concentrations below drinking water standards



## Groundwater Monitoring Wells



## Radiological Characterization Survey



### Tasks:

- ✓ Surface gamma scan to identify radiological anomalies
- ✓ Soil sampling and laboratory analysis

### Results:

- Localized areas of elevated radioactivity greater than established investigation levels
- No systematic soil samples results exceed the release criteria for radium-226
- Discrete radium-226 in soils in four of the twenty six biased sampling locations and two anomalies were found and removed during biased sampling activities



## Radiological Survey Units and Systematic Soil Sampling



## Additional Radiological Investigation



### Tasks:

- ✓ Identified locations above investigation criteria in Survey Units 7-9, 21-29, and 31-32
- ✓ Sampling, limited excavation, and/or remediation

### Results:

- 51 confirmation samples collected
- Two discrete items identified (SU-8 and 22)
- Post remediation sampling indicated no activity level greater than the screening criteria
- No other samples identified RA-226 greater than the screening criteria.
- Review of historical figures and aerial photographs



## Additional Radiological Investigation



## Revised Remedial Investigation/ Feasibility Study



Potential remedial alternatives for soil:

- No Action
- Pavement Maintenance/Hotspot Removal/Institutional Controls
- Pavement Maintenance/Partial Soil Cover in Unpaved Areas/Institutional Controls
- Complete Removal/Backfill/Unrestricted Reuse





## Next Steps



- Revised Remedial Investigation/Feasibility Study – February 2015
- Proposed Plan – June 2015
- Record of Decision – December 2015



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