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**FORMER NAVAL AIR STATION MOFFETT FIELD  
RESTORATION ADVISORY BOARD MEETING  
MOUNTAIN VIEW SENIOR CENTER  
MOUNTAIN VIEW, CALIFORNIA  
NOVEMBER 20, 2014**

*NOTE: An acronym list is provided on the last page of these minutes.*

**Subject: RESTORATION ADVISORY BOARD MEETING MINUTES**

The Restoration Advisory Board (RAB) meeting for Former Naval Air Station (NAS) Moffett Field was held on Thursday, November 20, 2014, at the Senior Center in Mountain View, California.

**Community RAB Members in attendance:**

Bill Berry, Gabriel Diaconescu, Rebecca Kohn, Libby Lucas, Diane Minasian, Bob Moss, Lenny Siegel, Steve Sprugasci, Peter Strauss, Greg Unangst, Dan Wallace, and Steve Williams

**Regulatory Agency and Navy RAB Members in attendance:**

Scott Anderson (Navy) and Alana Lee (U.S. Environmental Protection Agency [EPA])

**Other Navy, Regulatory Agency, National Aeronautics and Space Administration (NASA), City, and Consultant Representatives in attendance:**

Robert Beck (Oak Ridge National Laboratory [ORNL]), Don Chuck (NASA), Kristina Curley (Army Environmental Command [AEC]), Matt Dayoc (AEC), Jim Davis (City of Sunnyvale), Yashekia Evans (Tetra Tech Inc. [Tetra Tech]), Kimberly Finch (NASA), Carolyn Hunter (Tetra Tech), Lynne Kilpatrick (City of Sunnyvale), John Inks (City of Mountain View), Steve Lombardi (U.S. Army 63<sup>rd</sup> Reserve), Alec Naugle (San Francisco Bay Regional Water Quality Board [Water Board]), Patricia Reno (ORNL), George Sloup (NASA), and David Watson (ORNL)

**Other Community Members and Agency Representatives in attendance:**

Joseph Ko, Scott Lieberman, Richard Lubman, Bill McClenahan (ExTech), Claudia Polley, M.T. Skoog, Gesha Uminskiy, and Jim Van Pernis (Earth, Air and Space Educational Foundation)

**WELCOME**

Bill Berry (RAB Community Co-chair) opened the meeting at 7:00 p.m. and welcomed everyone in attendance. Mr. Berry reviewed the RAB agenda and asked for any additional topics. No additional items were suggested. Mr. Berry said that NASA will not be providing an update on the leasing agreement with Planetary Ventures at the meeting. If anyone wants to read the leasing agreement between NASA and Planetary Ventures it is available on NASA's website. Mr. Berry asked that NASA be prepared to give a briefing on the leasing agreement at the next RAB meeting in February 2015 and that Planetary Ventures be invited to participate in future RAB meetings.

- RAB member Steve Williams asked why NASA representatives were not present at the RAB meeting to provide an update. Don Chuck (NASA) said the person who could provide an update on the leasing agreement with Planetary Ventures unexpectedly could not attend the RAB meeting.
- RAB member Lenny Siegel said he has read the lease agreement and there is language included in the document that the regulatory agencies will continue oversight on the property throughout the agreement between NASA and Planetary Ventures. Alana Lee (EPA) said EPA and the Water Board are working

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with NASA and Planetary Ventures on the regulatory requirements for the property being leased and will conduct oversight throughout the leasing agreement. Mr. Siegel asked if the Navy is participating in these discussions with NASA, Planetary Ventures, and the regulatory agencies. Mr. Anderson said the Navy is not participating in the leasing discussions.

- RAB member Peter Strauss said he just reviewed the Navy's vapor intrusion (VI) report and there were high levels in the tunnel between Building 10 and Hangar 1. There was no mention of indoor air sampling data for VI at Hangar 1. Mr. Anderson said there is no indoor air concern since the hangar is currently not enclosed. Once the siding is installed on Hangar 1, indoor air samples will need to be collected.
- Mr. Williams said he was expecting an update on the NASA leasing agreement which was on the RAB agenda. NASA's lack of availability to provide a leasing update was disappointing to those attending the meeting. Mr. Anderson said the NASA update portion of tonight's agenda is to review their environmental projects which will occur during the RAB meeting. Mr. Berry said the RAB wants to be engaged in the leasing discussion between NASA, Planetary Ventures and the regulatory agencies. Mr. Williams said there will not be another RAB meeting until February 2015 to get an update on the leasing discussions. Mr. Anderson said NASA, Planetary Ventures, and the community can have a separate meeting to discuss the leasing agreement outside of the Navy's scheduled meetings. The RAB voted to have an update on the leasing agreement between NASA and Planetary Ventures at the February 2015 meeting.
- Mr. Siegel announced he was elected to the Mountain View City Council in the November 2014 election. He plans to continue to participate in the RAB but as a representative of Center for Public Environmental Oversight (CPEO) and as the administrator of the EPA Technical Assistance Grant for former NAS Moffett Field and not representing the City of Mountain View.

## APPROVAL OF MEETING MINUTES

Scott Anderson (Navy RAB Co-chair) asked for corrections to or comments on the minutes for the draft August 7, 2014, RAB meeting. RAB member Greg Unangst and Mountain View representative John Inks provided minor verbal comments on the draft August 7, 2014 RAB meeting minutes. The RAB voted to finalize the August 7, 2014 meeting minutes with the corrections incorporated.

## NAVY ANNOUNCEMENTS

Mr. Anderson said the Navy's contractor, AMEC, visited Hangar 1 in September 2014 to assess and address coating issues to the frame of the hangar. AMEC is preparing a letter report discussing the coating issues and the repairs conducted in September 2014. Mr. Anderson asked the RAB members to email him if they are interested in receiving a copy of the Hangar 1 coating letter report.

- Mr. Williams asked the Navy and their contractors to determine the most economical and effective method of distributing documents to the RAB. The Navy should try to e-mail or post documents on a SharePoint site in order to minimize reproduction and shipping costs. The RAB would prefer receiving former NAS Moffett Field documents electronically when possible. Mr. Anderson said he will remind the Navy Remedial Project Managers (RPMs) to tell their contractors of the RAB's distribution preferences.

Mr. Anderson reviewed and handed out a document sign-up sheet, allowing RAB members to request copies of upcoming deliverables; see table below.

**Document Sign-Up Table**

	<u>DOCUMENT</u>	<u>APPROXIMATE SUBMITTAL DATE</u>
1.	Final Sites 1, 2, and 22 Landfills Monitoring and Optimization	December 2014
2.	Final Groundwater and Soil Gas Report for Vapor Intrusion Sites	December 2014
3.	Final Site 25 Vegetation Restoration Completion Report	January 2015
4.	Draft Treatability Study Work Plan for Site 28	February 2015
5.	Final Basewide 5-Year Review	February 2015

Mr. Anderson said the Navy hosted a regulatory agency tour of Site 25 on November 13, 2014 to assess the progress of the pickleweed restoration. The regulatory agencies were pleased with the progress of the pickleweed restoration at Site 25.

**REGULATORY AGENCY UPDATE**

Alana Lee (EPA) announced that EPA RPM Yvonne Fong is currently on leave and other EPA staff are covering her projects while she is out. Ms. Lee said EPA appreciates the public comments received on EPA’s draft Third Five-Year Review for the Middlefield-Ellis-Whisman Superfund Study Area, which includes portions of Moffett Field. EPA finalized the Five-Year Review report in September and will post it on EPA’s website: [www.epa.gov/region9/moffettfield](http://www.epa.gov/region9/moffettfield).

Ms. Lee said EPA plans on presenting an update on EPA’s trichloroethene (TCE) source investigation work south of Highway 101 at the February 12, 2015 RAB meeting.

**NASA UPDATE**

Kimberly Finch (NASA) announced that NASA signed a Federal Facility Agreement (FFA) with EPA and the Water Board on November 14, 2014. EPA will be preparing an official public announcement on the FFA and will formally take comments on it. The FFA will be available at the Mountain View Library and NASA is in the process of developing an Administrative Record Index for their sites. The FFA will formalize the ongoing work NASA has been conducting at former NAS Moffett Field.

Ms. Finch said NASA is conducting a non-time critical removal action (NTCRA) at Area of Investigation (AOI) 14 which adjacent to the Navy’s Site 25. NASA is planning on removing the soil or placing a cap over AOI-14 depending on what the NTCRA engineering evaluation/cost analysis determines feasible.

**ORION PARK ARMY UPDATE**

Matt Dayoc (Army Environmental Command [AEC]) and David Watson (Oak Ridge National Laboratory [ORNL]) provided an update on the Orion Park Housing Area (OPHA) project. Mr. Dayoc reviewed the past site investigations that were conducted at Orion Park by the Navy, Army and EPA. The Army performed a

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voluntary investigation at Orion Park which included working with the regulatory agencies on obtaining approval of a supplemental site investigation work plan in 2012. The supplemental site investigation included completion of 35 cone penetrometer test / membrane interface probe (CPT/MIP) soil borings. AEC and ORNL evaluated all of the data collected by the Navy, Army, and EPA in order to review the historical studies at OPHA and determine the path forward for the site. Mr. Watson reviewed the Navy, Army, and EPA studies conducted over the past 15 years in an attempt to explain the source(s) of groundwater contamination at OPHA.

- Mr. Williams said that it is unclear what the Army's data assessment is on the groundwater flow for the source 2 TCE cluster. There needs to be a clear assessment of the Army's analysis of historic data. Mr. Watson said based on his assessment of historic data, the results were not clearly defined and do not follow the area's groundwater flow pattern. Don Chuck (NASA) said that based on his review of the Navy's isotope data, the Army's assessment does not follow the groundwater flow pattern in the area.
- Mr. Siegel said that TCE released in 1978 into Stevens Creek would not result in killing fish. Mr. Siegel recommended looking at the Moffett Gateway report to determine cause of fish mortality.
- Mr. Moss asked where in the OPHA the volatile organic compound (VOC) spike was located. Mr. Siegel said the well with the VOC spike was located north of Highway 101.
- Mr. Strauss said that the conclusions that AEC and ORNL are presenting on OPHA are similar to what Mr. Siegel concluded and posted on the CPEO website. There should be isotope analysis conducted to help indicate the source of contamination at OPHA. Mr. Watson said he is not familiar with isotope analysis so he does not have an opinion whether it would determine the source of contamination. Mr. Strauss said in 2007 when the Navy conducted sampling they did not sample offsite which may have helped determine the contamination source.
- Alec Naugle (Water Board) asked if the contamination signature is known. Mr. Watson said the flow pattern does not indicate the contamination signature and all material reviewed refers back to the conceptual site model.
- Ms. Lee said that EPA has long acknowledged that there is upgradient contamination migrating onto OPHA. The OPHA subsurface investigation question has been: are there any on-site sources that contributed to contamination found on OPHA. The regulatory agencies have questioned the Navy's and Army's conclusions that none of the OPHA contamination originated onsite and is solely from off-site contamination. Ms. Lee also stated that the potential sources/pathway scenarios and conclusions presented by AEC and ORNL for the contamination at OPHA may not be accurate based on what EPA has been studying in the surrounding areas. Ms. Lee indicated that the three points ORNL made on the last presentation slide was speculation as no evidence was provided to support how releases occurred as presented and migrated onto OPHA to collectively explain the extent of contamination found on OPHA.
- Mr. Chuck said NASA has not reviewed the conclusions that are being presented by the Army based on assessing historic data in other studies conducted at Stevens Creek. The Army may not be able to make a good case for determining the source of contamination at OPHA from the historic data on the project.
- Mr. Siegel said the community wants to ensure that OPHA is cleaned up and that the proper party responsible for the contamination is held accountable. It may be useful to wait for EPA's results from the surrounding property studies before determining what needs to occur for the OPHA. Mr. Siegel asked the Water Board how sites that do not have an obvious responsible party are addressed. There is an abandoned sewer sanitary line that also needs to be addressed in the area. Mr. Naugle said orphan

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sites can be taken on by the regulatory agencies to move the cleanup along while determining the responsible party.

- Mr. Moss asked if the storm drains upstream and downstream of OPHA are addressed in a historic report. Mr. Watson said there are no Navy or Army reports that discuss upstream and downstream storm drain sampling.

## **PUBLIC COMMENT / QUESTION PERIOD**

Mr. Anderson opened the meeting for questions or comments from the public. No public comments were offered at this time.

## **FUTURE RAB MEETINGS**

Mr. Anderson asked for future RAB topics.

- NASA briefing on Planetary Ventures leasing agreement and future environmental management plans.
- EPA's TCE source investigation study area south of Highway 101

The next RAB meeting is tentatively scheduled for Thursday, February 12, 2015.

### **Tentative 2015 RAB Meeting Schedule**

- Thursday, February 12, 2015
- Thursday, May 14, 2015
- Thursday, August 13, 2015
- Thursday, November 12, 2015

## **ADJOURN**

Mr. Anderson thanked all present for attending. The meeting was adjourned at 9:00 p.m.

The Navy can be contacted with any comments or questions:

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## **ACRONYM LIST**

AEC – Army Environmental Command  
AOI – Area of Investigation  
BRAC – Base Realignment and Closure  
CPEO – Center for Public Environmental Oversight  
CPT / MIP - cone penetrometer test / membrane interface probe  
EPA – U.S. Environmental Protection Agency

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FFA – Federal Facility Agreement

MEW – Middlefield-Ellis-Whisman

NAS – Naval Air Station

NASA – National Aeronautics and Space Administration

NTCRA – Non Time Critical Removal Action

OPHA – Orion Park Housing Area

ORNL – Oak Ridge National Laboratory

RAB – Restoration Advisory Board

RPM – Remedial Project Manager

TCE – Trichloroethylene

VI – Vapor Intrusion

VOC – Volatile Organic Compound

Water Board – San Francisco Bay Regional Water Quality Control Board

RAB meeting minutes are posted on the Navy's environmental website at:

[http://www.bracpmo.navy.mil/brac\\_bases/california/former\\_nas\\_moffett\\_field.html](http://www.bracpmo.navy.mil/brac_bases/california/former_nas_moffett_field.html)

Respectfully submitted,

Scott Anderson

Navy Co-Chair

Former NAS Moffett Field RAB