

DRAFT

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

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

**Subject: RAB MEETING MINUTES**

The Restoration Advisory Board (RAB) meeting for former Naval Air Station (NAS) Moffett Field was held on Thursday, March 10, 2011, at the Senior Center in Mountain View, California.

**Community RAB Members in attendance:**

Bill Berry, Gabriel Diaconescu, Linda Ellis, Libby Lucas, Bob Moss, Ralph Otte, Arthur Schwartz, Lenny Siegel, Steve Sprugasci, Peter Strauss, Dan Wallace, and Steve Williams

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

Scott Anderson (Navy), Sarah Kloss (U.S. Environmental Protection Agency [EPA]), Alana Lee (EPA), and Elizabeth Wells (San Francisco Bay Regional Water Quality Control Board [Water Board])

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

Bryce Bartelma (Navy), Lauren Cason (Sealaska Environmental), Don Chuck (NASA), Dr. Ann Clarke (NASA), Wilson Doctor (Navy), Tony Guiang (Navy), Mark T. Hightower (NASA), Carolyn Hunter (Tetra Tech EM Inc.), John Inks (City of Mountain View), Gary Munekawa (Navy), and George Sloup (NASA)

**Other Community Members in attendance:**

Beth Bunnenberg (Save Hangar 1), Larry Ellis (Air and Space West Foundation for Education), Mike Mueller (Army-Fort Hunter Liggett), Jack Nadeau (Save Hangar 1), Mark Peaslee, Marty Rawson, Tammy Skoog (Lockheed Martin), Terry Terman (League of Women Voters), and Bill Wissel

**WELCOME**

Bill Berry (RAB community co-chair) and Scott Anderson (U.S. Navy Base Realignment and Closure [BRAC] Environmental Coordinator) opened the meeting at 7:00 p.m. and welcomed everyone in attendance. Mr. Berry reviewed the agenda.

**APPROVAL OF MEETING MINUTES**

Mr. Anderson asked for corrections to or comments on the meeting minutes for January 13, 2011. The RAB voted to finalize the meeting minutes for January 13, 2011. Meeting minutes are posted to the former NAS Moffett Field project website at:

<http://www.bracpmo.navy.mil/basepage.aspx?baseid=52&state=California&name=moffett>.

**DOCUMENTS FOR REVIEW**

Documents are available in CD-ROM format. Sign-up sheets for the documents listed below were circulated during the meeting to the RAB members.

<u>#</u>	<u>DOCUMENT</u>	<u>APPROXIMATE SUBMITTAL DATE</u>
1.	Site 25 Draft Remedial Design/Remedial Action Work Plan (RD/RAWP)	March 2011
2.	Site 25 Data Summary Report for Pre-Design Investigation of Sediment	March 2011
3.	Site 26 Eastside Aquifer Treatment System Final Pilot Test Technical Memorandum	March 2011

**ANNOUNCEMENTS**

Mr. Anderson announced that Angie Lind (former lead Navy Remedial Project Manager [RPM]) has left the BRAC office. The Navy is evaluating candidates for the lead RPM position for former NAS Moffett Field. Mr. Anderson introduced Tony Guiang (Navy RPM), who has joined the team to work on the annual groundwater monitoring program for Sites 26 and 28. Mr. Anderson said the Navy has shifted staffing for NAS Moffett Field projects. Bryce Bartelma (Navy RPM) will be responsible for Hangar 1 and Site 25, and Wilson Doctor (Navy RPM) will be responsible for Site 14, the petroleum program and vapor intrusion.

Mr. Anderson announced the Hangar 1 scaffolding is 40 percent complete in the southern portion of the hangar (zone 1). Mr. Anderson said that he will provide the RAB members photos of the scaffolding work via e-mail. Mr. Anderson said the Navy and NASA have been in preliminary discussions on evaluating the possibility of keeping the corrugated windows in place during the removal action at Hangar 1.

- RAB member Bob Moss asked about the schedule to assess the viability of keeping corrugated windows. Mr. Anderson said that the Navy and NASA will need to make a decision before the siding removal begins in April 2011. Mr. Anderson said that the Navy and NASA have included EPA in the conversations on the corrugated windows.
- RAB member Lenny Siegel announced that EPA will be hosting a workshop and webinar in San Diego on vapor intrusion on March 15, 2011. Anyone interested in attending the workshop and webinar can contact EPA or Mr. Siegel.
- Mr. Siegel said EPA is hosting a public listening session on Wednesday, March 16, 2011 in San Francisco to seek public input on the potential addition of vapor intrusion to the Hazard Ranking System (HRS), which is used to evaluate sites for possible inclusion on the National Priorities List (NPL). Mr. Siegel invited the RAB members to attend.
- Mr. Siegel announced that the next MEW/Moffett Field Community Advisory Board meeting will be held at Mountain View City Hall on March 31, 2011 to discuss the CAB's Draft Community Criteria and Suggested Strategy for the MEW/Moffett Field Groundwater Feasibility Study.
- Mr. Siegel said that he was in Washington, D.C., visiting senators, and learned that the \$32 million funding for Hangar 1 is not yet approved. There are questions on the rationale to spend \$32 million for a hangar in tough economic times.

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Mr. Berry said that he has been monitoring the progress of the possibility that former NAS Moffett Field would become the site for the 2020 World's Fair. Currently, an economic study is being prepared to evaluate whether it is feasible for the Bay Area to host the 2020 World's Fair. Many infrastructure and transportation improvements will be necessary to host the number of people expected to attend the 2020 World's Fair. Letters of intent will be submitted in May and June 2011, which kicks off the proposal and selection process for the 2020 World's Fair. Mr. Berry will update the RAB as information is available.

## REGULATORY AGENCY UPDATE

### EPA

Sarah Kloss (EPA) announced that she is leaving the former NAS Moffett Field project to relocate to Philadelphia at the end of April 2011. Ms. Kloss said that she has enjoyed working on the former NAS Moffett Field project and thanked everyone for their continued efforts.

Alana Lee (EPA) said that Senior Executive Committee, which includes EPA's Regional Administrator, the Navy's Deputy Assistant Secretary of the Environment, and the Water Board's Executive Officer, has unanimously resolved the dispute regarding the Navy's responsibility for implementation of the vapor intrusion remedy in the Moffett Field Area. The Navy has agreed to implement the vapor intrusion remedy selected in EPA's 2010 Record of Decision (ROD) Amendment in the areas of Moffett Field impacted by Navy sources. The Navy will begin implementation of the vapor intrusion remedy in the West-side Aquifers Treatment System (WATS) area. Ms. Lee said that EPA will work with the Middlefield-Ellis-Whisman (MEW) parties, NASA, and the Navy to facilitate their determination of appropriate distribution of responsibility for the vapor intrusion work in Moffett Field area. Ms. Lee said that the first meeting with the parties was held on March 10, 2011 and progress is being made. Ms. Kloss said that NASA will wait until the work at Hangar 1 and the upland polychlorinated biphenyl (PCB) sources are addressed before it collects soil samples in the area during its building demolition projects.

- RAB member Peter Strauss said that he is concerned that PCBs will migrate to the sediment basin while Hangar 1 and the upland PCB sources are being addressed. Mr. Strauss said that the Estuary Institute may have funding available to test the sediment basin to ensure that PCBs are not entering the San Francisco Bay.

## PETROLEUM SITE 14 UPDATE

Mr. Doctor provided a presentation on the work being conducted at Site 14. Mr. Doctor said that Site 14 was previously a Navy gas station, and the Navy removed two underground storage tanks (USTs) in 1986. Once the USTs were removed, the Navy conducted routine soil and groundwater sampling and found petroleum in the groundwater. The Navy designed a low-pressure air sparging treatment system, also known as biosparging, to remove the petroleum in the groundwater. The treatment system is being installed at Site 14. Installation of the treatment system will be completed by March 18, 2011. Mr. Doctor said the Navy plans to inject air into the sandy water-bearing layer between 18 and 23 feet below the ground surface (bgs) to remediate the petroleum in the groundwater. The Navy will operate the treatment system for 1 year and then follow up with monitoring to ensure Site 14 is free of petroleum in the groundwater.

- Mr. Strauss asked if the petroleum is comingled with trichloroethene. Mr. Doctor said that the Navy has found petroleum at about 15 feet bgs and volatile organic compounds (VOCs) in the deeper groundwater monitoring wells at 25 to 30 feet bgs. Since the VOCs are found deeper, they are not from the petroleum contamination at Site 14.

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- Mr. Moss asked if the air being injected into the ground is heated. Mr. Doctor said the air is at ambient temperature. Mr. Moss said that heated air has been successful for penetration into the ground at other sites. Mr. Doctor said that ambient air has been successful at Site 14.
- RAB member Ralph Otte asked about the timeframe for operation of the treatment system. Mr. Doctor said the treatment system will operate for one year, and then the Navy will conduct long-term monitoring at Site 14 until no further action (NFA) is granted by the Water Board. Mr. Otte asked if the Navy anticipates removal of 100 percent of the petroleum from the groundwater at Site 14. Mr. Doctor said the Navy worked with the Water Board to establish the cleanup goals for petroleum at Site 14. The Navy will remediate the petroleum at Site 14 to the cleanup goals established by the Water Board.
- Mr. Strauss said that there could be a concern about rebound during the biodegradation process. He asked about the Navy's plan to address petroleum at Site 14 if this system does not work. Mr. Anderson said that the Navy will devise with another strategy to address petroleum if the air sparging technique does not work.
- Mr. Strauss asked how the Navy addresses petroleum contamination that is comingled with Superfund contaminants. Elizabeth Wells (Water Board) said that the Navy, in agreement with the Water Board, is cleaning up the site under the petroleum program, which is not part of the Superfund process but has similar steps. The Navy is working to achieve NFA for Site 14 for the petroleum hydrocarbon contamination. Mr. Strauss asked if the NFA for Site 14 will alter the cleanup of the regional groundwater plume. Ms. Lee said that this air sparging treatment system for Site 14 will not alter the Superfund cleanup of the regional plume.

## SITE 25 UPDATE

Mr. Bartelma provided a presentation on the field work being conducted at Site 25. Mr. Bartelma said that Site 25 encompasses approximately 230 acres that was used for stormwater management at former NAS Moffett Field since 1953. The Navy and NASA are coordinating cleanup at Site 25 and Area of Investigation (AOI)-14. Mr. Bartelma said the Navy conducted pre-design field work in November and December 2010 to evaluate the site conditions, including sensitive species present and the baseline conditions. The Navy collected sediment samples in the top ½ foot of soil for chemical analysis. Mr. Bartelma said that the Navy conducted a land survey called LiDAR (for "Light Detection and Ranging") that uses laser pulses that covers large portions of the site efficiently. Areas of Site 25 that are densely vegetated were ground truth surveyed. Mr. Bartelma said that the increased amount of rainfall throughout 2009 and 2010 did not allow standing water at Site 25 to fully evaporate, which made it difficult to use a traditional sampling approach. The Navy had to use a floating hovercraft for sampling that can be used in various depths of water (starting from less than 1 inch of water). There were 28 sediment samples analyzed for PCBs, pesticides, lead, and zinc, and 18 sediment samples collected for geotechnical analysis. These sediment samples were collected to refine the remedial design (RD) for Site 25. Mr. Bartelma said that the contaminated sediment will be stockpiled and the correct disposal method will be identified. The Navy will incorporate all of the sampling results into the draft RD and remedial action work plan (RAWP) that will be issued for regulatory agency review in March 2011. The Site 25 field work will be conducted in summer and fall 2011 once the RD/RAWP is finalized.

- Mr. Strauss said that he does not remember that soil stabilization was discussed in the Site 25 proposed plan (PP). Mr. Bartelma said that it was called the in situ/ex situ remedy in the Site 25 PP.
- Mr. Strauss asked for an update on NASA's AOI-14 cleanup. Dr. Ann Clarke (NASA) said NASA is preparing for field work at AOI-14 by installing a silt fence around the site. The silt fence will be installed as an interim measure while NASA obtains funding for the AOI-14 remedial action. Dr. Clarke said that NASA needs \$7 million to conduct a dig and haul removal action at AOI-14. The dig and haul

costs are currently more expensive than were previously estimated by NASA. The funds for the AOI-14 removal action are in the NASA queue for release in fiscal year 2012. Ms. Kloss said that EPA has been working with the Navy and NASA so there is no migration of contamination from AOI-14 to Site 25 so the cleanup can be conducted. Mr. Anderson said that there is a time-sensitive nature for the field work at Site 25 so the Navy can mobilize during the dry season. NASA has been working with the Navy to accommodate the field work schedule at Site 25.

- RAB member Libby Lucas said that the Navy should be able to store the pickleweed removed during the Site 25 field work and replant it once the work is completed. Mr. Bartelma said the Navy is looking into storing the pickleweed in a nursery during the field work at Site 25. The pickleweed will be replanted once the field work is completed at Site 25.
- Mr. Siegel asked about the elevation for the ponded areas at Site 25. Mr. Bartelma said that there are ponded areas at Site 25 that are below sea level. Mr. Siegel asked if the Navy plans to pump some of the ponded water away from Site 25 to make the field work easier to complete. Mr. Bartelma said the Navy is working with NASA to evaluate whether water from Site 25 can be diverted to another area to conduct the field work. Mr. Bartelma said that there may be a hydraulic connection between the salt pond near Site 25 that is causing additional water to infiltrate the Site 25 area, which the Navy is trying to address.
- Mr. Moss said that there is concern that contamination from the upland PCB site(s) will migrate into Site 25 and recontaminate the site. Mr. Bartelma said that NASA conducts annual sediment basin sampling for PCBs. Don Chuck (NASA) said that NASA recently conducted PCB sampling at Site 8 and other upland PCB sites.

## **PUBLIC COMMENT PERIOD**

Mr. Anderson opened the meeting for questions or comments from the public.

- A community member asked if any of the cleanup that the Navy or NASA is conducting at former NAS Moffett Field will affect the possibility that the area will be the site of the 2020 World's Fair. Mr. Berry said that the site of the World's Fair will not be hosted near the Navy and NASA cleanup sites. Mr. Berry said that the San Francisco Bay Conservation and Development Commission may be considering installing a ferry slip at former NAS Moffett Field for the World's Fair. Until the selection is made for the location of the 2020 World's Fair, no structural improvements will be made at the site. The community member said that Jack London Square in Oakland, California, would be a more suitable site for the 2020 World's Fair since the public transportation system is already in place. Highways 101 and 237 are already congested and will not be able to handle the additional traffic of a world's fair. Mr. Berry said that comments on the proposal for the 2020 World's Fair can be provided to the Bay Area Initiative Group, which is facilitating the proposal development.
- Mr. Siegel said that it is unfortunate that the proposal to host the 2020 World's Fair is submitted before an environmental impact survey is conducted.
- A community member said that closing the landing strips at former NAS Moffett Field for the world's fair will affect business in the area for at least 6 months, which is not acceptable.

## **Future RAB Meetings**

Mr. Anderson announced the next RAB meeting will tentatively be held on May 12, 2011. Mr. Anderson asked for presentation topics for future RAB meetings.

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- Larry Ellis (Air and Space West Foundation for Education) would like to present the initiative to reuse the Hangar 1 at a future RAB meeting.
- EPA suggested the Navy present an update on the progress of the Site 28 treatability study

Tentatively scheduled RAB meetings for 2011 are:

- May 12, 2011
- July 14, 2011
- September 8, 2011
- November 10, 2011

## Adjourn

The meeting was adjourned at 8:30 p.m., and Mr. Anderson thanked all present for attending. Mr. Anderson can be contacted with any comments or questions:

- Mr. Scott Anderson  
BRAC Environmental Coordinator, Former NAS Moffett Field, BRAC Project Management Office West;  
1455 Frazee Road, Suite 900, San Diego, CA 92108; Phone: 619-532-0938; Fax: 619-532-0940;  
E-mail: [scott.d.anderson@navy.mil](mailto:scott.d.anderson@navy.mil)

## ACRONYM LIST

AOI – Area of Investigation

bgs – Below Ground Surface

BRAC – Base Realignment and Closure

EPA – U.S. Environmental Protection Agency

HRS - Hazard Ranking System

LiDAR - Light Detection and Ranging

MEW – Middlefield-Ellis-Whisman

NAS – Naval Air Station

NASA – National Aeronautics and Space Administration

NFA – No Further Action

NPL - National Priorities List

PCB – Polychlorinated biphenyl

PP – Proposed Plan

RAB – Restoration Advisory Board

RAWP – Remedial Action Work Plan

RD – Remedial Design

ROD – Record of Decision

RPM – Remedial Project Manager

UST – Underground Storage Tanks

VOC – Volatile Organic Compounds

Water Board – San Francisco Bay Regional Water Quality Control Board

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

<http://www.bracpmo.navy.mil/basepage.aspx?baseid=52&state=California&name=moffett>

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Respectfully Submitted,

Scott Anderson  
Navy Co-Chair,  
Former NAS Moffett Field RAB