

**FORMER NAVAL AIR STATION MOFFETT FIELD  
RESTORATION ADVISORY BOARD MEETING  
BUILDING 943, EAGLE ROOM  
MOFFETT FIELD, 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, 9 July 2009, at Building 943 in the Eagle Room at Moffett Field, California. Bob Moss, RAB community co-chair, and Kathy Stewart, U.S. Navy Base Realignment and Closure (BRAC) Environmental Coordinator (BEC), opened the meeting at 7:10 p.m.

**WELCOME**

Ms. Stewart and Mr. Moss welcomed everyone in attendance. Mr. Moss asked those present to introduce himself or herself after he provided a brief overview of the agenda for the meeting. Mr. Moss said the Navy will provide an update on Site 29 (Hangar 1) and Site 27 during the meeting.

Ms. Stewart introduced herself and summarized her background. Ms. Stewart has been involved in environmental work for the Navy for 16 years and most recently served as BEC at various installations in the Southeast region of the US. Ms. Stewart said she appreciates the level of interest from the community in the environmental restoration (ER) of former NAS Moffett Field. Ms. Stewart looks forward to working with the RAB.

The former NAS Moffett Field RAB meeting was attended by:

RAB Members	Regulators	Navy	Consultants & Navy Support	NASA	Public & Other
8	5	2	2	7	15

**APPROVAL OF MEETING MINUTES**

Mr. Moss asked for corrections to the 11 June 2009 meeting minutes. RAB member Lenny Siegel said the word “pint” should be changed to “point” on page 3 of the 11 June 2009 meeting minutes. Mr. Moss said that on the statement page 3, “The Navy has involved the California State Historic Preservation Officer (SHPO) and the Advisory Council on Historic Preservation (ACHP) which provided final comment pursuant to the National Historic Preservation Act (NHPA),” should be prefaced with “Mr. Hill said” to make it an accurate statement.

The 11 June 2009 meeting minutes were approved as corrected. 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.

<u>#</u>	<u>DOCUMENT</u>	<u>APPROXIMATE SUBMITTAL DATE</u>
1.	Final Site 1 Landfill – 2008 Annual Groundwater Report	September 2009
2.	Final Site 22 Landfill – 2008 Annual Groundwater Report	September 2009
3.	Final Work Plan for Petroleum Sites	September 2009
4.	Draft Petroleum Site 14 Work Plan	September 2009
5.	Draft Basewide Five-Year Review	October 2009

**HANGAR 1 PROGRESS UPDATE**

Ms. Stewart provided an update on the Navy’s progress on Hangar 1 since the 11 June 2009 RAB meeting. Senior leadership from the Navy is engaged in developing responses to the letter submitted by Congresswoman Anna Eshoo’s office.

Ms. Stewart followed up on a question from the 11 June 2009 RAB meeting concerning the “point of no return,” for the Hangar 1 contract award, i.e., the point at which the Navy would be legally bound to proceed with the removal action. Ms. Stewart stated the Navy can elect to terminate a contract at any time. However, the Navy would be obligated to reimburse the contractor for any expenses incurred, which would be determined through negotiations with the contractor.

Ms. Stewart updated the RAB on the remediation schedule for Hangar 1. Based on the current schedule, work plans will be complete in the second quarter of fiscal year 2010, and the remedial action is scheduled for completion in the second quarter of fiscal year 2012. Ms. Stewart stated that concerns exist regarding residing the hangar simultaneously with removal of the hangar siding due to cross contamination issues, and the 30 month period of performance allows time for the Navy and National Aeronautics and Space Administration (NASA) to continue to negotiate to meet their respective obligations.

Ms. Stewart followed up on a question from the 11 June 2009 RAB meeting concerning the Hangar 1 windows. The Hangar 1 removal action contract includes an option for removal and decontamination and storage of the window panes for NASA’s follow-on reuse. Further, the window frames are to be removed without damage to the structure. If they are removed intact, they are to be decontaminated and stored for NASA’s follow-on reuse.

Ms. Stewart also followed up on a request from the 11 June 2009 RAB meeting regarding a request for a senior-level meeting between NASA and the Navy. She stated senior Navy leadership has been engaged on the request.

- RAB member Jac Siegel said the Navy should consider the cost implications of proceeding with the Hangar 1 award and subsequently terminating the contract.
- RAB Member Peter Strauss said the intent of having a plan in place for re-siding the hangar prior to awarding the contract was to save costs associated with demobilization and remobilization of the crews, equipment, and scaffolding during the removal action and installation of new siding.
- Mr. Moss said he has had extensive conversations with a contractor in Akron, Ohio, that considered providing an unsolicited bid to the Navy to coat the inside and the outside of Hangar 1. The contractor in Akron has a schedule and bid available that is said to be 10 percent less than what the Navy's proposed removal action would cost. The proposed coating has a minimum 10-year warranty and is estimated to cost \$24 million. Mr. Moss explained that a potential tenant in Hangar 1 would help pay for the cost of coating the hangar within 10 years. Mr. Moss said that coating the inside and outside of Hangar 1 would speed up the ultimate goal of reusing the hangar. Mr. Moss said the Navy is concerned that the coating would not be a permanent solution and would have to be maintained over the years. The community has been asking the Navy to re-side Hangar 1 since 2004. Mr. Moss said his experience with the Navy is it will clean up a site to the minimum requirement and transfer the responsibility to another party. Ms. Stewart said senior management from Navy and NASA are aware of the community concerns to reuse Hangar 1 and will discuss the path forward.
- Don Chuck, NASA, said the siding of Hangar 1 leaks. During the winter, storm water will leak into the hangar and pond on the floor.
- Sarah Kloss, U.S. Environmental Protection Agency (EPA), noted that the Navy applied the temporary coating to the hangar in 2003. She stated that EPA is concerned that the temporary coating is beyond its useful life and encouraged the Navy to move forward with the removal action.
- RAB member Arthur Schwartz said that although the lifespan of the temporary coating that the Navy installed on Hangar 1 will expire, it does not mean that contaminants will begin leaking into the soil or groundwater at the site as soon as the lifespan expires. The lifespan of 5 years for the coating is a conservative value.
- Mr. Schwartz said he has been coordinating with his brother, who is in contact with Navy Admiral Keating. Admiral Keating has discussed the Hangar 1 re-siding concerns with Admiral Vitale. Mr. Schwartz provided approximately 30 pages of documentation for Admiral Vitale to review on Hangar 1. Mr. Schwartz said he will be kept apprised of the Navy's position on re-siding the hangar from Admirals Keating and Vitale.
- Mr. J. Siegel said the Mountain View City Council received a briefing on 30 June 2009 regarding Hangar 1. The Mountain View City Council voted and will make every effort to save Hangar 1. The Mountain View city legal counsel is considering the possibility of issuing a civil injunction to stop the Navy's plan of removing the siding until a plan is put into place to re-side Hangar 1. Mr. J. Siegel said the City of Mountain View has contacted the Cities of Sunnyvale and of Palo Alto to inform them of its concerns with the Navy's plan to continue with the removal action without a plan in place to re-side the hangar.
- Mr. Moss said the concerns of the City of Mountain View regarding the Navy's removal action were mentioned on the CBS morning and evening news broadcasts.

## SITE 27 UPDATE

Ms. Stewart provided an update on the planned Site 27 restoration work. She stated the Navy is evaluating the use of soil as a natural cover instead of the proposed geotextile liner at Site 27 based on concerns raised over the effects of additional site restoration on the western pond turtle by a RAB member. The Navy should complete the evaluation of implementing a soil barrier at Site 27 in mid-July 2009. Once the Navy has assessed implementation of a soil barrier at Site 27, it will meet with the regulatory agencies to discuss the path forward for Site 27.

- Mr. Moss asked if the geotextile material can be installed at Site 27 once the western pond turtle breeding period in June and July ends. Ms. Stewart said the concern is not only the breeding period but the inability of the western pond turtle to burrow into the geotextile material.

## ER PROGRAM UPDATE

Angie Lind, Navy Lead Remedial Project Manager (RPM), provided a presentation on the Navy's ER program at former NAS Moffett Field. Ms. Lind broke the presentation into three segments, including basewide activities, Installation Restoration (IR) site updates, and a petroleum program update.

**Basewide Activities:** Ms. Lind said the Navy is drafting a basewide 5-year review. The draft version of the document is due to the agencies for review in October 2009. The Navy formerly conducted 5-year reviews on a site-by-site basis. Recent changes in the Department of Defense (DoD) and EPA policies require that a 5-year review include all sites on the base. The 5-year review will be prepared by an independent party who conducts interviews, site walks, and assessments to ensure that the remedies implemented at the site are functioning as intended.

Ms. Lind said the Navy is assessing the basewide groundwater levels by conducting elevation measurements in March and November of each year. Ms. Lind said the Navy is conducting basewide groundwater sampling on an annual basis.

- Mr. Strauss asked if the Navy is assessing innovative technologies to accelerate cleanup at any of the ER sites. Ms. Lind said the Navy is constantly looking for innovative technologies to make the ER process more efficient.
- RAB member Lenny Siegel asked if the Navy's basewide 5-year review will include the former Orion Park Housing Area. Ms. Lind said the Army will conduct a 5-year review of the former Orion Park Housing Area. EPA will work with the Army on the former Orion Park Housing Area.

**IR Site Updates:** Ms. Lind stated there were originally three landfills at former NAS Moffett Field: Sites 1, 2, and 22. Site 1 and 2 landfills were combined, and Site 22 remained separate. Site 1 and 22 landfills are all capped, and Site 2 is clean closed. A golf course is the landfill cap at Site 22.

- Mr. Strauss asked if the Navy has considered sea level rise for the landfills. Ms. Lind said the San Francisco Bay Regional Water Quality Control Board (Water Board) brought up this concern on sea level rise at the BRAC Cleanup Team meeting. The Navy will work with the Water Board to assess sea level rise in conjunction with the Site 1 and 22 landfills.

Ms. Lind said the Navy is completing a record of decision (ROD) for Site 25. The regulatory agencies are currently reviewing the Draft Site 25 ROD. Agency comments are due back to the Navy by the end of July

2009. The Navy's goal is to issue the Draft Final Site 25 ROD in October 2009. The ROD includes the Navy's proposal to treat the lead and zinc in the sediment to stabilize it and dispose of it as nonhazardous waste. The Navy will backfill and re-vegetate Site 25 once the sediment treatment and removal action has been completed.

Ms. Lind said the Navy has completed the EHC™ injection at Site 26 (East-side Aquifer Treatment System [EATS]). The Navy will monitor the EHC™ treatment by monitoring the groundwater through 2010.

She also said the Navy is determining the path forward for Site 27. The Navy has asked its contractor to assess the implementability of a soil barrier at Site 27.

Ms. Lind said the Navy is responsible for a portion of the Middlefield Ellis Whisman (MEW) groundwater plume at Site 28/Building 88. The Navy is working with EPA and the Water Board on a pilot test to inject EHC into the MEW plume.

In addition, Ms. Lind said the Navy has received and is reviewing the proposals submitted on the removal action at Hangar 1. The Navy plans to award the removal action contract by the end of July 2009. The first 6 months of the contract will be used to prepare schedules and work plans for the removal action at Hangar 1.

- Mr. Schwartz said that it is too late to change the Navy's course of action on the removal action at Hangar 1. Mr. Schwartz was concerned that the RAB was not able to provide input on the Navy's request for proposal (RFP). Ms. Lind said the Navy followed the Federal Acquisition Regulation (FAR) in developing and issuing the RFP for the removal action for Hangar 1.
- Mr. Moss said that EPA and NASA were not consulted before the Navy issued the RFP, which causes a gap in the environmental oversight of the removal action at Hangar 1. Ms. Lind said the Navy worked with NASA on the scope of work included in the RFP for the removal action. She added EPA was not included in development of the RFP for the removal action. The Navy included in the RFP the following evaluation factors: on how to deal with environmental releases, community relations, details on types of coatings that are proposed, and a description of past experience on similar removal actions.
- Mr. Schwartz said the Navy should have consulted with a corrosion engineer in developing the RFP for the removal action at Hangar 1. The Navy should also include a corrosion engineer on the technical review team to review the proposals on the removal action at Hangar 1.
- Ms. Kloss said the regulatory agencies will be involved with evaluating the work plans and schedules for the removal action at Hangar 1 once the Navy awards a contract. The Navy followed the government-wide standard process for preparing the RFP and awarding a contract for the removal action at Hangar 1. The Navy will be held accountable to all of the laws and standards throughout the removal action at Hangar 1.
- Mr. Schwartz said that he wants to make sure that the Navy considered all of the issues regarding Hangar 1 in the RFP.
- Elizabeth Wells (Water Board) said the regulatory agencies and RAB will have the opportunity to review the removal action work plan once it has been developed. The Navy will review all of the comments provided on the work plan before it moves forward with the removal action at Hangar 1.
- Mr. L. Siegel said that the Navy used a performance based contract mechanism to release the RFP, which is a good way to complete the removal action at Hangar 1.

**Petroleum Program:** Ms. Lind said the Navy and Water Board have been working on closing petroleum program sites. Out of 131 petroleum program sites, 91 have been addressed. There are 39 sites that require remediation prior to closure.

## **ORION PARK UPDATE**

Paul Kot, U.S. Army, provided an update on the vapor intrusion proposed plan (PP) the U.S. Army Corps of Engineers (ACOE) prepared for the Orion Park site. The Army is waiting for comments on the Orion Park PP from the regulatory agencies. There will be follow-up studies on the Orion Park site if further activity is necessary.

- Mr. Strauss asked who is financially responsible for the cleanup of Orion Park. Mr. Kot answered that the Army's Environmental Command is financially responsible for Orion Park.
- Mr. L. Siegel said he is pleased that the Army attended the RAB meeting and provided an update on Orion Park. Mr. L. Siegel asked that the Army continue to provide the RAB updates on work at Orion Park.
- Mr. L. Siegel asked about actions if contamination from Orion Park migrates onto NASA property. Mr. Kot said that if contamination from Orion Park is the responsibility of the Army.
- Ms. Wells said that if the state can identify the property owner of a contaminated site, the owner will be held accountable.
- Mr. Moss asked if the Army agrees with EPA's point paper that discusses a barrier method for contamination at Orion Park. Mr. Moss said EPA's point paper outlines a monitoring program for Orion Park as well as the barrier. Mr. Kot said that Army is working out the details for Orion Park with EPA.
- Mr. Schwartz asked if the Army has considered any of the conductor companies located around Orion Park as sources for the contamination. Mr. Kot said the Army is looking into the sources of contamination at Orion Park. The Army knows that a septic tank is not the contamination source at Orion Park. Ms. Wells said that she does not know of any conductor companies upgradient of Orion Park. The Water Board is working with EPA and the Army to select the cleanup action at Orion Park.
- Ms. Lee said the MEW property needs to be distinguished as a property separate from Orion Park. Mr. L. Siegel asked if the Orion Park property includes the West Coat Housing area. Ms. Lee confirmed the West Coat Housing area is included in the Orion Park area.

## **REGULATORY AGENCY UPDATE**

### **Water Board**

Ms. Wells said that she will be able to handle only 85 percent of the work load as in the past since the state agencies are required to take an additional furlough day. Therefore, the Navy may be asked to prioritize the NAS Moffett Field sites for the Water Board.

### **EPA VAPOR INTRISION PROPOSED PLAN FOR THE MEW STUDY AREA**

Ms. Lee said that EPA is holding a public meeting to accept comments on the vapor intrusion pathway at the MEW Study Area PP on 23 July 2009 at the Mountain View City Hall. Ms. Lee said the PP was issued to the community. The public comment period is from 10 July 2009 through 9 August 2009. Ms. Lee reviewed the various methods EPA is proposing for cleanup of the MEW Study Area.

Ms. Lee said the groundwater contamination migrated off the MEW Study Area and onto former NAS Moffett Field. The groundwater plume moves south to north. The PP discusses soil vapor extraction (SVE) and excavation at the site. There were no measures to address migration of the groundwater plume through buildings in the original decision document for the MEW Study Area. The groundwater plumes passes beneath more than 100 buildings at former NAS Moffett Field, which raises concern for indoor air.

## DRAFT

- RAB member Ralph Otte asked about the depth to the groundwater table. Ms. Lee said the groundwater is between 5 and 10 feet below the surface at former NAS Moffett Field.

Ms. Lee said that a plume of tetrachloroethene (TCE) at some of the buildings will require a mitigation system. The MEW parties have taken interim measures to lower the indoor air contamination. Air purifiers or heating, ventilation, and air conditioning systems were installed in some buildings. Confirmation samples were collected to ensure that the concentration of the indoor air contaminants was being lowered.

- Mr. Strauss asked about the number of air purifiers installed. Ms. Lee said five air purifiers were installed in utility rooms. Air purifiers are not a stand-alone remedy; a heating, ventilation, and air conditioning (HVAC) system also needs to be used.
- City of Mountain View Council Member Kevin Woodhouse asked if EPA's commercial level 5 was used to assess the contamination levels. Ms. Lee confirmed that EPA is using commercial level 5. EPA will consider existing and future developments before the cleanup level is set. EPA is evaluating all of the buildings affected by the groundwater plume.
- Mr. Moss asked if the SVE barrier systems will also cover the footprint of the buildings. Ms. Lee confirmed the barrier systems will cover the footprint of the buildings.
- Mr. Moss asked how EPA will ensure that the treatment systems will be used at each building. Ms. Lee said EPA is evaluating different ways to address the maintenance of the HVAC systems.
- Mr. Strauss asked if the HVAC systems will run 24 hours a day, 7 days a week. Ms. Lee said the HVAC systems will be used only when people are in the building, but not 24 hours, 7 days a week. EPA is assuming the HVAC systems will run about 10 hours a day.
- Lili Pirbarzan, NASA, suggested the HVAC system be used in conjunction with sub-slab depressurization.
- Mr. L. Siegel said an HVAC system working in a properly sealed building presents a signification reduction of contaminants. Mr. L. Siegel said that EPA has learned a great deal about the project since the work plan was developed in 2002. Mr. L. Siegel said he appreciated the level of detail in the vapor intrusion work plan.
- Ms. Lee said EPA is aware the vapor intrusion into buildings needs to be addressed now. The groundwater plume will take longer to address. Ms. Lee invited everyone to provide comments to EPA on the PP and attend the public meeting on 23 July 2009. EPA anticipates completing the MEW Study Area ROD Amendment by 30 September 2009. The public will be able to provide comments on the ROD once it is issued. Ms. Lee said she is available to answer any questions on the MEW Study Area and encouraged the RAB to view EPA's MEW website: [www.epa.gov/region09/MEW](http://www.epa.gov/region09/MEW).

## RAB BUSINESS

### Future RAB Topics

Ms. Stewart announced the next RAB meeting will be held on 10 September 2009. Ms. Stewart asked for suggestions for topics at future RAB meetings. The RAB discussed the following items as potential topics for future meetings:

- Hangar 1 Update
- Site 27 Update
- Basewide 5-Year Review Update
- Groundwater Report Update

DRAFT

## **Public Comment**

Community member, Helen Hymes, provided comments on behalf of her mother, Georgina Hymes which include the following:

- The Navy should provide NASA \$63 million to reskin Hangar 1.
- NASA should not destroy any of the homes that surround former NAS Moffett Field.
- Presidential flights to the airstrip at former NAS Moffett Field should be reinstated.

## **RAB Schedule**

The next RAB meeting will be held from 7 to 9:00 p.m. at Building 943 in the Eagle Room at Moffett Field, California. The 2009 RAB meetings are scheduled for Thursday evening at 7 p.m. as follows:

- 10 September 2009
- 12 November 2009

## **Adjourn**

The meeting was adjourned at 9:45 p.m., and Ms. Stewart thanked everyone for attending. Ms. Stewart can be contacted with any comments or questions:

- Ms. Kathy Stewart  
BRAC Environmental Coordinator, former NAS Moffett Field, BRAC PMO West;  
1 Avenue of the Palms, Suite 161; San Francisco, CA 9403; Phone: 415-743-4715; Fax: 415-743-4700;  
E-mail: [Kathryn.stewart@navy.mil](mailto:Kathryn.stewart@navy.mil)

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**ACRONYM LIST**

ACHP – Advisory Council on Historic Preservation  
ACOE – Army Corps of Engineers  
BEC – BRAC Environmental Coordinator  
BRAC – Base Realignment and Closure  
DoD – Department of Defense  
EATS – East-side Aquifer Treatment System  
EPA – U.S. Environmental Protection Agency  
ER – Environmental Restoration  
FAR – Federal Acquisition Regulation  
HVAC – Heating, ventilation, and air conditioning  
IR – Installation Restoration  
MEW – Middlefield-Ellis-Whisman  
NAS – Naval Air Station  
NASA – National Aeronautics and Space Administration  
NHPA - National Historic Preservation Act  
PP — Proposed Plan  
RAB – Restoration Advisory Board  
RFP — Request for Proposal  
ROD — Record of Decision  
RPM – Remedial Project Manager  
SHPO – California State Historic Preservation Officer  
SVE – Soil vapor extraction  
TCE – Tetrachloroethene  
Water Board – San Francisco Bay Regional Water Quality Control Board  
WATS – West-side Aquifer Treatment System

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>