

**FORMER NAS MOFFETT FIELD
RESTORATION ADVISORY BOARD
MOUNTAIN VIEW CITY HALL, FOURTH FLOOR
MOUNTAIN VIEW, CALIFORNIA 94041**

NOTE: A glossary is provided on the last page of these minutes.

Subject: RAB MEETING MINUTES

The Restoration Advisory Board (RAB) meeting for the former Naval Air Station (NAS) Moffett Field was held on Thursday, 14 Sept 2006, at the Mountain View City Hall, Fourth Floor, in Mountain View, Calif. Mr. Bob Moss, RAB community co-chair, opened the meeting at 7:10 p.m.

WELCOME

Mr. Moss introduced himself, welcomed everyone in attendance, and asked for self-introductions of those present. The Moffett Field RAB meeting was attended by:

RAB Members	Regulators	Navy	Consultants & Navy Support	NASA	Public & Other
12	4	3	3	2	10

AGENDA REVIEW AND APPROVAL OF MINUTES

Mr. Moss reviewed the meeting agenda. It was approved without changes.

Mr. Moss and Ms. Yvonne Fong, U.S. Environmental Protection Agency (EPA) project manager, provided corrections to the 13 July 2006 meeting minutes. The meeting minutes were approved as corrected. Revised meeting minutes are posted on the project website at www.bracpmo.navy.mil/bracbases/california/moffett/.

DOCUMENTS FOR REVIEW

Mr. Rick Weissenborn, Navy Base Realignment and Closure (BRAC) environmental coordinator and RAB co-chair, reminded everyone that documents are distributed on CD.

Sign-up sheets for the following documents were circulated during the meeting:

#	<u>DOCUMENT</u>	<u>APPROXIMATE SUBMITTAL DATE</u>
1	Draft Site 22 Landfill Post-Construction Operations, Maintenance, and Monitoring Plan Addendum	September 2006
2	Draft Final Addendum to the Revised Final Station-Wide Feasibility Study Site 25	October 2006
3	Draft Site 14 South Progress Report	October 2006
4	Final Groundwater Monitoring Well Installation and Sampling Report Orion Park Housing Area	November 2006
5	Final Former Building 88 Investigation Report	November 2006
6	Draft East-Side Aquifer Treatment System Evaluation Completion Report	December 2006
7	Site 29 (Hangar 1) Action Memorandum	TBA

REGULATORY UPDATE

Ms. Fong provided an update of Moffett Field EPA activities:

- Ms. Fong said the supplemental remedial investigation (RI) compiled by Navy, National Aeronautics and Space Administration (NASA), and Middlefield-Ellis-Whisman (MEW) Companies was released 14 Aug 2006, and EPA is currently reviewing the document. EPA will submit comments within the next two weeks. Ms. Fong requested this topic be added to the 9 Nov 2006 meeting agenda, and EPA will provide more information at that meeting. The final RI is due 45 days after submission of EPA's comments. The proposed plan is scheduled for release winter 2007 and will include a public comment period and public meeting.
 - RAB member Mr. Peter Strauss asked if the Navy still was not participating in the supplemental RI/FS report. Mr. Weissenborn affirmed that is correct.
- Ms. Fong said EPA is updating its community involvement plan and interviewing community members for input. Community members can contact the community involvement coordinator at 415-972-3243 if they are interested in participating.

Ms. Adriana Constantinescu, San Francisco Bay Regional Water Quality Control Board (Water Board) project manager, announced she is no longer assigned to the Moffett Field project. Ms. Constantinescu reviewed Moffett Field cleanup accomplishments during her five and a half years on the project, noting these accomplishments were possible because of the RAB's help. She thanked everyone and introduced Ms. Gina Kathuria, senior water resources engineer, and Mr. Devender Narala, Ms. Constantinescu's replacement. Ms. Kathuria will be replacing Mr. John Kaiser.

Mr. Narala introduced himself and gave a summary of his experience and qualifications.

Mr. Weissenborn announced Ms. Judy Huang, Water Board project manager, is leaving the Water Board and will be working for EPA. Ms. Agnes Farres will be her replacement.

HANGAR 1 UPDATE

Mr. Weissenborn said there are no new developments regarding a revised engineering evaluation/cost analysis (EE/CA) for Hangar 1. He will keep everyone updated when new developments arise.

- Mr. Strauss said NASA submitted a draft implementation plan for the storm water settling basin in August that concluded there were no samples that were above non-detect for polychlorinated biphenyl (PCB) 1268. Mr. Strauss said this seems there is not a problem with contamination from Hangar 1 migrating to the storm water retention pond. Mr. Don Chuck of NASA said he thinks Mr. Strauss' comment is correct if he is referring to the latest implementation plan, and NASA will have more data when they sample the settling basin. Mr. Chuck said NASA has been sampling the settling basin to ensure PCBs originating from NASA property are removed, which is not part of the old drainage system the Navy is addressing in relation to Hangar 1.

Mr. Weissenborn concluded the Hangar 1 update.

SITE 27 UPDATE

Mr. Scott Gromko, Navy remedial project manager, presented remedial action progress for Site 27. He provided background information on the site, and discussed completed actions, current actions, and the anticipated project schedule.

Completed actions for Site 27 include setting up the berm haul road, vehicle turnouts, and sediment stockpile area, and removing sediment from both the Marriage Road and North Patrol Road Ditches. Mr. Gromko described how these actions were completed.

Current actions include de-watering and sediment removal of the Northern Channel, and off-site transport of sediment. Mr. Gromko described how these actions are being completed.

Mr. Gromko said the Navy worked closely with California Fish and Game, the Water Board, and NASA biologists to develop a plan that would have the least amount of impact to the western pond turtles during cleanup. Mr. Gromko described actions taken to protect the turtles. Because there is a lot to learn about the western pond turtle, NASA biologists may put transmitters on some of the turtles, prior to releasing them, in an effort to better study them.

To date, 55,000 cubic yards of sediment have been removed from Marriage Road Ditch, North Patrol Road Ditch, and the Northern Channel. Approximately 20,000 cubic yards of sediment have been hauled to off-site, CERCLA-approved facilities, and roughly 50 western pond turtles have been safely captured and placed in their temporary home, the golf course pond.

The anticipated schedule for the remainder of Site 27 remedial actions is as follows:

- Completion of sediment removal by November 2006
- Completion of debris pile removal by December 2006
- Completion of remedial action project by January 2007
- Completion of remedial action report by July 2007

Following are questions and comments about the presentation:

- Mr. Gromko said the Navy installed a temporary drainage system and pond to help dry the sediment stockpile area for transport off-site. In response to Mr. Strauss' question about where the water drains to, Mr. Gromko said there is a retention pond as part of the drainage system that collects water from the sediment in the stockpile area. The water is tested, and there is an onsite filtration system if needed to filter sediment from the water. The water from the Building 191 pump station is channeled around the Northern Channel. Mr. Gromko also noted there are systems in place to prevent the migration of sediment that may be in the water, such as silt fencing, hay bails, and turbidity curtains.
- Mr. Strauss asked how the Navy protects against dust blowing from the sediment as it dries in the stockpile area. Mr. Gromko said the issue of dust was brought up by NASA and addressed during design of the project. Mr. Gromko said there has not been an issue with dust blowing at the site since the removed sediment material has clays in it, which hold water and prevent dust. In addition, the Navy only keeps sediment removed from the Northern Channel onsite for about 10 days, and for dusty conditions to occur, the sediment would need to be at the site longer. For other areas at the site that may create dust, such as dirt roadways, a water truck is used frequently to prevent dust.
- Mr. Strauss then asked if transporting sediment off-site via rail had been considered. Mr. Gromko said this transportation method was looked at closely, since traffic in the bay area is a concern, but since the railway does not come directly to Moffett Field, it was not feasible. This approach would require double handling by heavy equipment, trucks and excavators, to bring the sediment to a railroad spur and place it on a rail car. The double handling increased any cost saving and time that may be gained by railway transport and disposal.
- Mr. Gromko stated the Navy takes confirmation samples of the remediated areas to ensure all contaminated sediment has been removed. Mr. Moss asked about the status of these confirmation samples. Mr. Gromko said the confirmation samples have been completed for Marriage Road Ditch. In these samples, the naturally occurring metal selenium has been detected. The Navy is working with the Water Board to explain why it is being found. Since the Navy is finding levels higher in clay than in sediment, it leads to the conclusion that it is naturally occurring in the bay area clay.

- In response to a community member's question about the cubic yard capacity of the trucks accessing the site, Mr. Gromko said a 25-ton truck could hold about 15 cubic yards. Mr. Gromko said there are approximately 100 total trucks entering and exiting the site throughout a normal workday. This includes trucks delivering equipment.
- In response to a question about retaining the vehicle turnouts installed on the berm road after cleanup has been completed, Mr. Gromko said because the Navy does not own the site, the property owner will determine whether the berms remain. Currently, U.S. Fish and Wildlife Service would like the vehicle turnout on their property to remain, and Cargill would like the two vehicle turnouts on their property removed. The Navy will revisit the issue with the property owners after the project's use of these vehicle turns has completed.
- In response to a question about cleanup funding, Mr. Gromko said the Navy is incurring 100 percent of the cleanup costs. The Navy is cleaning the site as a responsible neighbor since the contamination migrated from Navy activities on Moffett Field. Prior to beginning the cleanup, the Navy had a number of meetings and obtained access agreements from the property owners to allow access to the site for the cleanup.
- A community member asked if there is an estimate of the half-life for the contaminants, or how long it would take the contaminants to naturally decompose. Mr. Gromko said one of the contaminants of concern, PCBs, needs to be cleaned up because they are a very stable chemical compound and have a long life. In addition, the contaminants of concern are hydrophobic (do not easily dissolve in water), which is why the water is not contaminated - only the sediment is contaminated. Also, there would not be any new sources of contamination because the contaminants came from materials that are rarely used, and they have been removed from upstream sources.

Mr. Gromko concluded the Site 27 presentation, which will be available on the Moffett Field website.

MOFFETT FIELD REMEDIATION

Mr. Wilson Doctor, Navy remedial project manager, presented an update on Sites 1, 22, 28, and the petroleum sites.

Mr. Doctor presented background information on each site and activities completed and ongoing. Completed and ongoing activities for each site include:

Site 1 Landfill: Habitat alteration on Site 1 was conducted between 11 Aug and 22 Aug 2003, and included biological surveys, the installation of flashing and a fence surrounding the site, and the redesign and modification of riprap, berms, road, and energy dissipators. Ongoing activities for Site 1 include quarterly methane monitoring, semiannual groundwater monitoring, regular maintenance, and quarterly landfill inspections with Santa Clara County.

- Mr. Strauss said the Navy installed a drainage ditch on the northern part of Site 1 to test the water that accumulated. He asked if there were any signs of contamination. Mr. Doctor replied that no contamination has been found above levels of concern.

Site 22 Landfill: Current ongoing activities on Site 22 include quarterly methane monitoring, quarterly groundwater monitoring, regular maintenance, and quarterly landfill inspections with Santa Clara County.

- In response to a community member's question, Mr. Doctor said Site 22 is still functioning as a golf course.

Site 28 West-Side Aquifers Treatment System (WATS): Ongoing activities for Site 28 include maintaining WATS, and completed activities include the removal of an air stripper from the system in May 2003, the repair of damaged monitoring wells, and the decommissioning of redundant/unnecessary monitoring wells. Mr. Doctor also described the optimization objectives of WATS.

- Mr. Strauss asked about the status of the rerouting of WATS discharge from the storm water retention pond to Stevens Creek and the biological study. Mr. Doctor said it is planned for completion in the future as part of the assessment of the storm water retention pond.
- Mr. Strauss asked if WATS also treats the plume on MEW property and if this is distinguished from the other contamination sources. Mr. Weissenborn said WATS focuses on Navy-known sources, but the system does treat some of the mixed regional plume.

Petroleum Sites: Recent work completed for the petroleum sites includes the sampling of two underground storage tanks at Shenandoah Housing Area, naphthalene sampling, and Building 29 and Building 55 pipelines investigation. The Navy is recommending closure for the Shenandoah and naphthalene sites as well as the Building 55 pipelines because contamination has not been found above levels of concern. The Navy was recently awarded \$2 million to investigate additional fuel system components at Building 29.

Mr. Doctor concluded the Moffett Field Remediation presentation.

RAB BUSINESS

- Mr. Weissenborn announced the new Moffett Field web page, www.bracpmo.navy.mil/bracbases/california/moffett.
- Navy documents will be available soon on the Moffett Field web page.

RAB Schedule - The next meeting is scheduled for Thursday, 9 Nov 2006, from 7 to 9:05 p.m., at the Mountain View City Hall, Fourth Floor.

The approved RAB meeting schedule for 2007 is as follows:

- January 11, 2007
- March 8, 2007
- May 10, 2007
- July 12, 2007
- September 13, 2007
- November 8, 2007

Future RAB Topics – The following topics were identified as potential agenda items:

- Hangar 1
- MEW vapor intrusion study

Adjourn – The meeting was adjourned at 8:40 p.m. Mr. Weissenborn can be contacted with any comments or questions:

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GLOSSARY OF TERMS USED IN THESE MINUTES

BRAC – Base Realignment and Closure

CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act

EE/CA – Engineering Evaluation/Cost Analysis

EPA – U.S. Environmental Protection Agency

MEW – Middlefield-Ellis-Whisman Companies

NAS – Naval Air Station

NASA – National Aeronautics and Space Administration

PCBs – Polychlorinated Biphenyls

RAB – Restoration Advisory Board

RI/FS – Remedial Investigation/Feasibility Study

Water Board – San Francisco Bay Regional Water Quality Control Board

WATS – West-Side Aquifers Treatment System

*RAB meeting minutes are located on the Navy's Environmental Web Page at:
www.bracpmo.navy.mil/bracbases/california/moffett/*