

**WAIKANE TRAINING AREA
RESTORATION ADVISORY BOARD (RAB) MINUTES
WEDNESDAY, AUGUST 20, 2014
WAIAHOLE ELEMENTARY SCHOOL CAFETERIA
48-215 WAIAHOLE VALLEY ROAD
WAIAHOLE, ISLAND OF OAHU, HAWAII**

1. Kevin Pien called the meeting to order at 7:15 p.m. and welcomed everyone.
2. Those in attendance included Government Co-Chair Kevin Pien, Kevin Nishimura, Michael Mullen, and Kanalei Shun of U.S. Army Corps of Engineers (USACE); RAB Community Co-Chair David Henkin, RAB members John Adolpho, Walea Constantinau, Byron Ho, Roger Morey, and Steven Mow.

Others in attendance included Robert Cooper, Jr., William Kusch, and John Sutton.

Contractors present included David Wolf of Zapata, Incorporated (ZAPATA), and Clayton Sugimoto of WCP Inc.

RAB members absent were Todd Cullison, Robert Fernandez, Kyle Kajihiro, Chris Lopes, Eunice Lehua Pate, Poola Villarimo, and Paul Zweng.

The agenda of the meeting was:

- I. Welcome/Introductions
- II. Review/Approval of May 2014 Meeting Minutes
- III. Update on Additional Remedial Investigation Field Work
- IV. Proposed Plan Presentation
 - a. Question and Answer Session
 - b. Oral Public Comments
- V. Next Meeting
- VI. RAB and Community Member Open Discussion

Name	Action Items from 20 August 2014	Suspense Date	Completed
K. Pien	Follow up with P. Zweng regarding proposed remedy	20 September	26 August

- I. Welcome and Introductions
- II. Review/Approval of June Meeting Minutes
 - Byron Ho's name was misspelled.
 - Byron Ho asked if there was a proposal to combine this meeting with the Marine Corps' RAB. Kevin Pien replied that he does coordinate with the Navy, but since we

are in different phases of the work with different contractors, they have selected to keep the RABs separate.

- May 2014 meeting minutes approved as corrected unanimously by RAB members.
 - i. Byron Ho moved, Roger Morey seconded.

III. RAB Membership

- Motion to renew RAB membership of David Henkin and John Adolpho approved unanimously by RAB members.

IV. Additional Remedial Investigation: Field Work Update, David Wolf of ZAPATA.

A. CERCLA Process

- Currently in the RI Phase

B. Goals of CERCLA

- Protect Human Health and Welfare
- Protect and Preserve the Environment
- Manage Risk

C. Remedial Action Objectives

- Manage MEC exposure risk through a combination of removal/remediation, administrative controls, and/or public education; thereby rendering the site as safe as reasonably possible to humans and the environment and conducive to the anticipated future land use

D. Former Waikane Training Area

- 3 Munition Response Sites (MRSs)
 - i. Western Mountainous Region MRS
 - ii. Southern Impact Region MRS
 - iii. Southeastern Region MRS
- The Western Mountainous Region MRS and Southeastern Region MRS are in the Final Decision Document Phase and will not be talked about tonight. This meeting is for the Southern Impact Region MRS
- Kevin Pien reiterated that in the Southeastern Region MRS, a removal action was conducted in 2011 which identified 42 munition items and the proposed remedy for this MRS was to expand the clearance area because items were found close to the boundary. There were no comments in 30-day comment period and the remedy was accepted as proposed.
- Kevin Pien stated that the terrain of the Western Mountainous Region MRS is very rugged with limited accessibility and previous investigations did not identify a source of munitions contamination. Only small arms and one munition fragmentation was discovered in this MRS close to the border of the neighboring MRS. For this MRS, land use controls (i.e., educational program) was proposed

remedy. There were no comments during the 30-day comment period and the remedy was accepted as proposed.

- David Wolf stated that the Marine Corps/Kamaka parcel is to the north and east of the Southern Impact Region MRS and outside of the FUDS boundary and therefore addressed under a different program.
- Most of the work followed the stream within the MRS and some work was conducted on the eastern boundary of the MRS.

E. RI Objective Southern Impact Region MRS

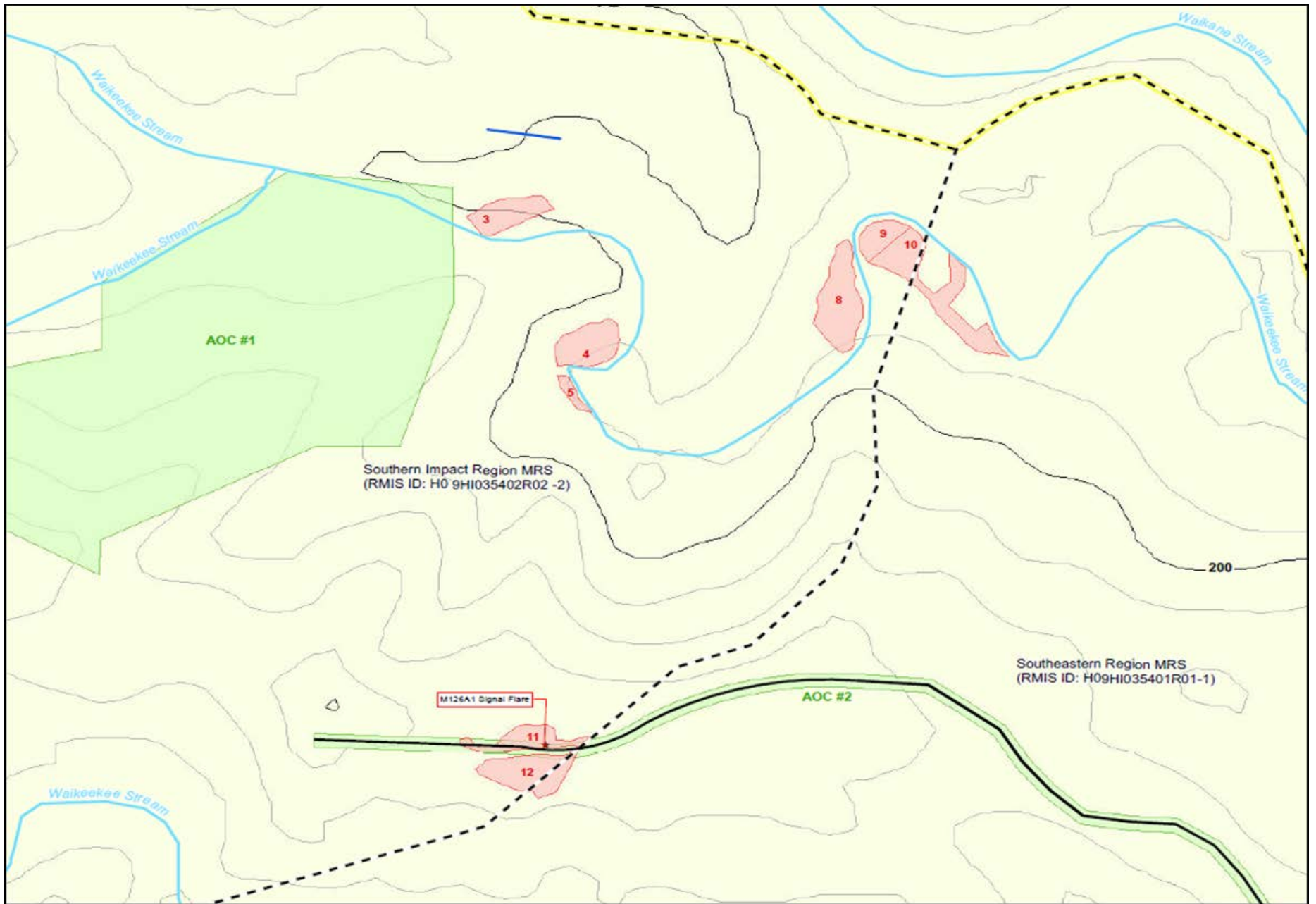
- Define the nature and extent of munitions and explosives of concern (MEC) contamination
- ZAPATA is currently preparing an RI Addendum that will record the new results
- Additional field work conducted to support the existing RI and driven by anticipated future land use (i.e., lo`i restoration and cacao cultivation)

F. Field Investigation Proposed Sectors

- i. Removal work was conducted in conjunction with the earlier RI
- ii. 1.46 acres-North Sectors
 - a. The proposed areas of investigation were realigned to follow the stream which are more conducive for lo`i restoration. The proposed areas were steep embankments and ridgelines.
- iii. 0.52 acres-South Sectors
 - a. No change in the proposed location. A road intersects this sector.

G. Field Investigation Sectors

- Actual investigation areas are shown on the next page.
- North sectors were realigned and some extend into the Southeastern Region MRS.
- Lo`i restoration areas were derived from historical maps of the area.
- Certain areas were steep embankments.
- Accessible areas along the stream, likely to be used for lo`i restoration, were swept.
- One signal flare (M126A1 considered a pyrotechnic and not high explosive, but still considered a MEC) was discovered in the south sector and carried through the RI as a MEC.
- Numbers in investigation areas do not refer to MEC. Only one MEC was discovered in Sector 11.



H. Field Investigation Tasks

- Approx. 1.0 acre of investigation was 100 percent analog-and-dig coverage (i.e., all anomalies were excavated).
- Conducted in accordance with existing work plan.
- Limited brush clearing to facilitate MEC investigation
 - Used only hand-held equipment
- Surveying
 - Trimble GeoXH GPS with external antenna
 - Unable to use GPS in the north sector because of steep terrain
 - Used features along the stream to identify where they were, and used measuring tape and compasses to sketch detail drawings of the investigation areas
 - This information was then digitized onto GIS files
 - GPS was used in the south sectors
- Intrusive investigation for MEC
 - Combination of Minelab, All-Metal, and Magnetometer Hand-held Metal Detectors
 - UXO Technician II (Detects metal using a metal detector)
 - UXO Technician I (Excavates metal using a shovel)
 - UXO Technician III (Records intrusive results)
- Archeological and biological monitoring during all phases
- Utilized established QA/QC procedures.

I. Intrusive Investigation Results (shown on next page)

- One MEC item (flare) identified in Sector 11
- Approximately 16 pounds of munitions debris, mostly from Transect 1, Sector 3, and Sector 4
- Approximately 70 pounds of non-munitions debris (i.e., solid waste) was recovered with most of this coming from Sector 12
- Approximately 41 pound of small arms was recovered and consistent with the previous investigations, where the area has lots of small arms on the ground surface

Location	Acres	MEC	MD (Approx. lbs)	Non-MD (Approx. lbs)	SAA (Approx. lbs)	MD/Acre*	Remarks
Sector 3	0.11	0	7	0.5	0.5	26	3.5-inch Rocket motor, 3.5-inch Rocket warhead (practice), ammo can lid, 0.30 caliber brass casings
Sector 4	0.14	0	3	0.5	1.1	15	3.5-inch Rocket fuze (practice), ammo can lid, 0.30 caliber brass casings
Sector 5	0.02	0	0	0	0.25	0	0.30 caliber brass casings
Sector 8	0.20	0	0	0.5	1	0	Foil, wire, scrap metal, 0.30 caliber brass casings
Sector 9	0.07	0	0	3	0.1	0	Steel stakes, wire, 0.30 caliber brass casings
Sector 10	0.24	0	0	0.3	0.6	0	Wire, 0.30 caliber brass casings
Sector 11	0.10	1	0.25	0.25	6	30	M126A1 signal red parachute flare (MEC), M49 trip flare, expended firing device, wire, cans
Sector 12	0.16	0	0.25	62	31	6	Projectile fuze, SAA (5.56, 7.76 and 0.30 caliber), car parts, trailer parts, foil, wire, cans
Transect 1	0.01	0	5	0	0.5	NC	3.5-inch Rocket warhead (practice), 0.30 caliber brass casings
Totals	1.06	1	15.5	67.05	41.05		

Note:

NC - MD density not calculated for the single transect. Adjacent transect data are desired for accurate estimate

J. Remedial Investigation Report Addendum

- Risk Assessment
 - MEC Hazard Assessment – Reviewed and no updates required
 - a. Qualitative measure of an explosive hazard to human receptors.
 - Human Health Risk – Completed in prior RI report
 - b. Evaluates potential risk to human health presented by munitions constituents.
 - Ecological Risk – Completed in prior RI report
 - c. Evaluates potential risk to the environment presented by munitions constituents.

K. Questions

Q. David Henkin: In terms of what you encountered, was it consistent with what you expected to find or surprised that you did not find MEC?

A. David Wolf: It was consistent of what we expected to find and what we found in the past. There were many 3.5-inch practice rockets recovered in the Southern Impact Region MRS. Whereas in the Southeast Region MRS there were 2.36-inch rockets.

L. Moved into the public Proposed Plan meeting where transcripts were taken and not included in the meeting minutes for the RAB meeting.

M. What Happens Next?

- RI Report Addendum
 - In progress
 - Final: November 2014
- Proposed Plan
 - Present preferred alternatives
 - Public meeting
 - 30-day public review
 - Comments requested by September 22, 2014
 - Final: November 2014
- Decision Document
 - Final: December 2014

N. Safety

- Recognize-Military Items can be DANGEROUS.
- Retreat-DO NOT TOUCH IT! Move away from the area.
- Report-CALL 911.

O. Next Meeting

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- Tentatively Scheduled for Wednesday January 21, 2015.
- Money has been programed to fund the next phase of the Waikane FUDS work and Kevin Pien will give an update at the next meeting.
- Kevin Pien adjourned the meeting at 8:42 p.m.