



**Restoration Advisory Board (RAB) Meeting
Former Naval Station Roosevelt Roads
Ceiba, Puerto Rico**

Meeting #34 –February 4, 2015

Note: This meeting summary is based on informal notes taken at the meeting. It is not intended as a verbatim transcript. Rather, it is intended to summarize the overall discussions. If comments or additional notes are provided within 30 days of distribution of these minutes, they will be considered and potentially added as an attachment to this summary.

I. Welcome and Introductions

The meeting began at approximately 6:15 p.m. Thuane Fielding (Navy) welcomed everyone. The attendance list is provided as Attachment 1. Thuane reviewed the agenda, which was primarily the risk assessment workshop. She welcomed the workshop presenters, Brett Doerr (CH2M HILL) and Barrie Selcoe (CH2M HILL). She also provided an update regarding the Petroglyph Site and the Indian Rock site. Thuane said that in a ceremony earlier in the day, the Department of the Interior had signed the property containing the Petroglyph and Indian Rock over to the Puerto Rico Department of Natural and Environmental Resources (DNER). She took a moment to thank those who worked on the property transfer, including Ramón Figueroa, RAB Community Co-Chair, Luis Velazquez, Naida Dávila and Carmen Guerrero. Thuane also congratulated Wilmarie Rivera, who has been promoted within the Puerto Rico Environmental Quality Board (PREQB). Thuane introduced Ramón Figueroa, Community Co-Chair, who also thanked those who contributed to the property transfer and then introduced Stacin Martin (Navy). Representatives from PREQB and EPA were unable to attend.

II. New and Ongoing Action Items

The following summarizes the status of action items, including new and ongoing action items that will be carried forward to the next RAB meeting.

Action Item Description	Status as of 2/4/2015
Navy will provide handouts of the map showing the sites under cleanup for the next meeting.	COMPLETED The laminated hand out maps were provided at the meeting.
Navy will coordinate a human health risk assessment workshop at the next RAB meeting.	COMPLETED Brett Doerr and Barrie Selcoe presented the risk assessment work shop.

Action Item Description	Status as of 2/4/2015
Ramón will help PREQB establish contact with the LRA regarding a new date to finish the site inspection of the Waste Water Treatment Plants and answer outstanding regulatory questions.	IN PROGRESS. Due to Wilmarie's promotion at PREQB, Ramón and Thuane are working to find out who will be Wilmarie's successor and work with this person to establish contact with the LRA.
NEW: Navy will provide handout visual aids, through a combination of maps and tables, to help communicate information on various sites.	

III. Risk Assessment Workshop

Brett introduced the workshop by emphasizing how understanding the steps in the Human Health Risk Assessment (HHRA) process is one of the primary goals of the workshop. He proceeded to describe how the HHRA fits in the overall Resource Conservation and Recovery Act (RCRA) process, the regulatory framework for the investigations. A flow chart with the RCRA steps was presented and Brett explained each step. See Attachment 2 for the entire HHRA presentation.

Barrie discussed specific details of the HHRA process by explaining how it determines the risks from exposure to chemicals at the sites, depending on current and future site uses (e.g. trespassers, residential scenarios) as well as people's sensitivity. She mentioned how a risk assessment is used to help determine if a corrective action is needed and, if so, to establish clean-up goals. She then proceeded to explain the four steps for a risk assessment: 1) Data Collection, 2) Exposure Assessment, 3) Toxicity Assessment and 4) Risk Characterization. She also gave an example that illustrated this process.

Barrie mentioned how risk management is the stage where contaminant background levels are taken into consideration, which can be attributed to naturally occurring chemicals or anthropogenic sources. Whether corrective action is needed is decided by the EPA, PREQB and the Navy (for the NAPR sites) and the public input is provided on the Statement of Basis.

Naida Dávila (Community RAB Member) asked if the risk assessments are compared between sites with similar characteristics. Barrie replied that although the equations and the process followed are standard across all sites, every site is characterized individually, regardless of similarities. Stacin asked for further explanation about how to obtain and understand background concentration levels. Brett responded by stating how important it is to identify representative background data (especially for inorganics) to ensure site-related contamination can be distinguished from what would be there in the absence of site-related contamination. He explained how this can be accomplished by understanding the geology and formation of site soils. He expanded on the idea of naturally occurring chemicals and anthropogenic sources by giving examples of those and explained that, in order to create a good data set for background levels, you need to find a very similar environment as your site that has not been impacted by the same potential contaminant releases as your site. Then, enough samples need to be collected from such site such that they accurately represent the range of concentrations that could have been seen without site-specific chemical releases.

Rafael Montes (Community RAB Member) expressed his concerns about the future of the site and who, after the Navy is gone, will be responsible for addressing environmental impacts. Stacin responded by explaining the Navy is responsible for cleaning up contamination attributed to past

Navy activities to the point where the planned use of the site is supported. In some cases, controls may be necessary to ensure use of the land remains appropriate. Once the property has been turned over and transferred, it will be the new landowners' responsibility for any future contamination.

Mike Dalton (Community RAB Member) requested a map be provided in the future with color coded flags of locations where contaminant concerns are most significant. Stacin responded that such maps have been generated in the past but have usually been too busy to understand at a glance. A combination of maps and tables as visual aids will be provided in the next meeting (see action items).

Thuane concluded the workshop section by asking for the public input on how the presentation went; she then stated how glad the Navy is to be able to provide this information.

IV. Ongoing Work Status Update (Highlight of SWMU 3, 14, 70, and 75)

Stacin discussed the activities currently underway for solid waste management units (SWMUs) 3, 14, 70 and 75. He gave the public the following updates:

- SWMU 14: Ongoing additional groundwater sampling and monitoring well installation
- SWMU 70: Pending debris removal
- SWMU 75: Statement of Basis is ready and will be available for public review soon. Members of the RAB will receive the information and notifications of its availability will be made in some newspapers and possibly other media outlets.
- SWMU 3: Land capping activities ongoing and will likely continue until June or July

Malú Blázquez (LRA) asked about more details regarding the capping activities at SWMU 3, especially about the number of jobs that have been created for the effort. Stacin said they estimate between 50 and 70 people working on the site are from Puerto Rico.

Another RAB member was wondering about when cleanup will happen in the area behind the hotel. Stacin explained how, when initial cleanup of this area began, munitions items were found. Stacin stressed the importance of safety and how, at that point, the team had to regroup to develop a modified approach to ensure the safety of the workers. That plan will require approval by Navy and Department of Defense organizations before the activity can continue.

Luis Velázquez asked if the Navy has any contingency plans in place for stormwater management in the landfill area. He is concerned that stormwater runoff will reach the two bays Bahía de Ensenada Honda and Bahía de Puerca and contaminate them. Stacin assured him there are strict stormwater management plans in place that follow regulations and have been reviewed by the Navy, EPA and PREQB. Pedro Tejada (Navy Contractor) also provided his input on the issue by reassuring the Navy's compliance with these plans.

V. Closure

Thuane and Ramón thanked everyone for attending the meeting and indicated that the next RAB meeting is tentatively scheduled for 6:00 pm on May 6, 2015. The monthly flyer will have updates on upcoming activities. The meeting was adjourned at 7:45 p.m.

ATTACHMENT 1 - Meeting Attendees – February 4, 2015

RAB Community Members Present	RAB Community Members Absent
Ramón D. Figueroa, Community Co-Chair	Samuel Caraballo
Naida Dávila	José Julio Díaz
Rafael Montes	Jorge Fernández Porto
Luis A. Velázquez Rivera	William Lourido
Ismael Velázquez	Lirio Márquez D'Acunti
Michael Dalton	Ramón M. Ríos
	Agustín Velázquez

Community Members Visiting

Aleida M. Rivera	Emerito Flores
Ramon Barretto	Fenando L. Zavala, AES International
Pedro Tejada	Marilyn del Manzano
Juan R. Dávila	Marc J. Tallmadge

RAB Agency Representatives

Thuane Fielding, Navy Co-Chair	Navy – Deputy Base Closure Manager
Stacin Martin	Navy – Remedial Project Manager
Doug Pocze (absent)	Environmental Protection Agency, Region 2
Wilmarie Rivera (absent)	Puerto Rico Environmental Quality Board (PREQB) - Federal Facilities Coordinator
Gloria M. Toro Agrait (absent)	PREQB – Hazardous Waste Permit Division

Other Agency Representatives

Malú Blázquez	Executive Director – Local Redevelopment Authority (LRA)
Freddy de Jesús	LRA
Carlos Vivoni	LRA
Ramon Lizardi	LRA
Manuel Martinez	APRODEC
Santiago Oliver	Puerto Rico Conservation Trust

Support Staff

Pedro Ruiz	Navy
Madeline Almodovar	CH2M HILL, Inc. (Navy contractor-facilitator)
Brett Doerr	CH2M HILL, Inc. (Navy contactor)
Barrie Selcoe	CH2M HILL, Inc. (Navy contactor)