



MEETING MINUTES

Restoration Advisory Board (RAB)

For the Former Naval Station Roosevelt Roads

Centro Cívico la Seyba, Ceiba, Puerto Rico

Meeting No. 5 - August 7, 2007

Note: These minutes are a summary based on informal notes taken at the meeting. They are not intended as a verbatim transcript and may not have captured everything that was discussed. If comments or additional notes are provided by others who were present at the meeting, within 30 days of distribution of these minutes, those will be added as an attachment to these minutes.

I. CALL TO ORDER AND WELCOMING REMARKS

The meeting began at 6:15 pm. There were 14 community members in attendance, in addition to the RAB members. (See Attachment 1 for attendance list.)

Susana Struve (CH2M HILL) asked if everyone has received information. Ismael Velazquez (RAB member) responded yes, 2 days ago. We are still trying to resolve the mailing delay issues.

Ismael Velazquez said there is a flood warning today until midnight, and many people that he had asked will not come, because of the weather conditions. He asked that we postpone this meeting until a later date. Lilyana Betancourt (community member) added that visitors are important and needed for decision-making.

Mark Davidson (Navy RAB Co-Chair) replied that it would be at least another month if we were to postpone the meeting. He proposed to hold the meeting as planned tonight, and then we will recap at the next meeting for those who missed it because of the weather.

Timothy Gordon (EPA) added that (1) EPA may not be able to attend the next meeting due to budget concerns, and (2) there are no final environmental decisions to be made at this meeting, so that is not a reason to cancel the meeting. Susana pointed out that the only decision that might be made tonight is about the charter, which is an issue for only the RAB members, not visitors.

II. ACTION ITEMS

The following action items were discussed. Two previous action items were closed, two are ongoing, and eight new action items were added. Additional discussion about selected action items follows this summary table.

| Item | Description | Discussion | Status as of Aug 29, 2007 |
|------|--|---|---------------------------|
| #1 | Navy and RAB community members: Develop and sign the Roosevelt Roads RAB charter | RAB members submitted a draft, Navy revised. RAB members to meet internally to discuss the proposed changes, respond to the Navy, or finalize if they are in agreement. Navy and Community Co-Chairs will schedule a conference call. | Ongoing |
| #2 | Navy: Provide more information about suspicions that a cache of ammunition had been covered over (vegetated mound observed in the magazine area, during the RAB March 2007 site tour - "the mound"). | As shown in the March site tour handouts (Attachment 4), historic photography suggests that this was simply a mound of dirt placed as a barrier to protect some nearby buildings (which are gone now) in case a magazine blew up. However, the Navy is investigating further what activities may have taken place at these former buildings. | Ongoing |
| #3 | Navy: provide a list of upcoming documents for the RAB members to identify where they would like technical assistance. | List was mailed to RAB members and available at this meeting. These documents are not destined for public comment. RAB members can go to the Navy's cleanup program and marketing websites (http://nsrr-ir.org/ and http://www.roosey-roads.com/) for more information about the sites that are on this deliverables list. | Completed |
| #4 | Lilyana Betancourt to share with Navy her list of buildings/facilities she believes are affected by contaminants | The Navy will review the list of buildings and contamination concerns. It will take some time to go through the list. | New |
| #5 | Navy to provide technical presentations for each of the sites under investigation (found on the deliverables list) | It will take more than one meeting to cover all the sites; will work down the list over several RAB meetings. | New |
| #6 | Navy to provide information about Area 46C, where Ismael Velásquez believes that transformers contaminated the soil with PCBs. | Details about the investigation of this site were presented at the August RAB meeting - Pole Yard Site. The Navy will prepare a workplan to investigate the site. | Completed |

| Item | Description | Discussion | Status as of Aug 29, 2007 |
|------|---|---|---------------------------|
| #7 | Ismael Velázquez to provide information about a spill he witnessed at AOC C | Pedro Ruiz will accompany Ismael to locate this area | New |
| #8 | Neida Pumarejo Cintrón (Fideicomiso de Conservación de Puerto Rico) to provide information about recreational activities that will be compatible with the conditions of the mangroves | The Conservation Trust will make a presentation at the October RAB meeting. | New |
| #9 | LRA to request Department of Natural Resources (DNER) participation in RAB meetings | RAB members have many questions for DNER | New |
| #10 | Navy (Jeff) to email the English version of Responsiveness Summary for CDR to RAB members (Lirio Márquez and Jorge Porto) | The Responsiveness Summary has been mailed. | Completed |
| #11 | LRA to take RAB member (Rafael Montes) to the dry area across the bay, identify the place and respond to his concerns. | | New |

Action Item # 3 – Upcoming technical deliverables (from previous meeting) and Action Items # 4 and 5 (new – follow up)

- Lilyana Betancourt (visitor) said that for the SWMUs and AOCs she wants to know exactly what affected facilities/buildings that are contained within each. A map would be helpful. She says that she has a list of about 300 facilities that she believes are affected by contamination.
- Jorge Fernández Porto (RAB member) asked whether all of the sites listed are on lands designated for early transfer. Mark Davidson replied yes. Some may be on the sale parcels; others are on parcels to be channeled through the LRA. Except for Piñeros Island, they are all under the CDR. Jorge asked whether some of the sites will be sold before the investigations are completed. Mark D. says yes, it could happen; for example, some of the airport parcels.
- Timothy Gordon (EPA) clarified that if such a parcel is transferred, the Navy would not be relieved of responsibility for cleaning up the site [as scheduled] until a 3rd party order was negotiated between the EPA and the new owner, gone through public review, approved, and signed.
- Jorge Porto is concerned that a parcel will be put up for sale before an investigation document is finalized. Mark Davidson replied that bidders for these parcels will have to do due diligence of these sites, and they must show that they have a technical understanding of the site investigation and the capability to complete the cleanup. Since there are many unknowns in environmental investigations, the potential buyers must have the environmental insurance required to cover these unknowns.

- Ismael Velázquez (RAB member) stated that RAB members have the responsibility to tell the community what has happened at the base.
- Luis Velazquez (RAB member) said that the *El Nuevo Día* newspaper has an article (coming from an article that was published in a US paper) describing the lands that will be sold without cleanup. He demanded that this not happen, and called the government representatives present to take responsibility. He believes that the contamination is not limited to the Navy base, but it has flowed out to the lands surrounding the base and in Ceiba; if this is not true, an article should be published saying so.
- Mark Davidson reiterated that the Navy cannot get out of the 7003 Consent Order. The Navy is bound by law to ensure that the cleanup is complete. The 3rd party orders will bind new owners to the obligations under that agreement.

Action Item #6 - Area 46C (from previous meeting) and **#7-AOC C** (new):

- Ismael Velázquez believes the transformers leaked PCBs. He worked there during Hurricane Hugo (1987-89).
- Mark Davidson explained that there is a containment wall there to protect against the transformer oil leaking into the environment. The valve on the wall was to drain the rain water from the containment area. There may have been some oil in the water that was drained. You can see some stressed vegetation (dead grass). He explained the investigation process, followed by soil removal, and more sampling and analysis.
- Timothy Gordon (EPA) wants to understand that they have identified the correct site. Ismael Velázquez said that there were actually 2 sites (SWMU 46, and AOC C). He described the oil spill that he had witnessed. Mark Kimes (Baker) said that these sites have already been identified as SWMUs and AOCs. Timothy Gordon added that EPA expects that sampling and analysis will be done to determine the nature and extent of the contamination.
- Mark Kimes noted that when the Area 46C was pointed out by Ismael, immediate action was taken to investigate his claim. Tonight Ismael has brought up a new issue, and that will also be investigated expeditiously and he will be consulted for the exact information. Timothy Gordon added that there will be an investigation to determine if there is residual contamination.
- Jorge Porto identified two additional issues: (1) a language barrier that does not allow efficient communication; (2) that the Navy must move quickly to meet with the people who can identify sources of contamination and take them to the sites to get their input.
- Mark Davidson urged Ismael Velázquez to go to Pedro Ruiz's office at Roosevelt Roads and arrange a date when he can take Pedro to the additional site he brought up tonight and provide what he knows about it.

Item #2 - Vegetated mound in the magazine area (from previous meeting):

- Luis Velázquez (RAB member) asked for an answer from the Navy about the alleged ammunitions magazine that RAB members saw during the site visit in March [*a vegetated mound inside the fence line of the magazine area; see photos in Attachment 4*]. Jeff Meyers answered that they have been investigating John Henry's claim that there were nuclear weapons stored there. He is in the process of researching, but information about nuclear

weapons in general is classified, so it's not a quick answer. He hopes that he will have an answer for the next RAB meeting.

- Ismael Velázquez (RAB member) said that the weapons department was in charge of this area and highly classified activities were conducted there. He thinks there may have been parts of atomic bombs stored there.

III. RAB SUGGESTED TOPICS

Airport Fuel Spill: Pedro Ruiz (Naval Activity Puerto Rico) said that immediate action was taken at the time of the fuel spill in 1999. After the spill was cleaned up, an assessment was performed in the area to see what damage he spill had done. He explained the Compensatory Restoration Plan for the affected area (Los Machos Mangrove Forest). There was already a problem identified there, because of the exchange of waters between the bay and the mangrove area. He described the channel expansion and new bridge that will be constructed. The original water level was 5 to 10 feet, depending on the sediments. When restoration started, the water level at some of these points was only 5 inches; now water levels are back at 5-6 feet.

- Francisco Fronteras (alternate for RAB member William Lourido) pointed out that that mangrove was shredded and not offered to the fishermen. He asked if the changes will be monitored and who will be responsible for this process? Pedro Ruiz replied that there will be monitoring performed for 3 to 5 years, possibly by the new owner of the land, but the Navy will remain legally responsible.
- Jorge Porto stated that as far as he understand, the monitoring will be in the hands of the Puerto Rican Conservation Trust (PRCT)
- Francisco Fronteras asked if the PRCT has the technical capacity to accurately analyze the data and make decisions, or will they just set up a fence and say don't trespass. Neida Pumarejo Cintrón (PRCT representative to the RAB) said yes, they have the tools to make the decisions, and they will adequately monitor the area. There is a management plan that will be implemented.
- Lirio Marquez asked about the height of the bridge and the new, higher water level. Pedro Ruiz responded that a small fishing boat will be able to pass under. Carlos Brown (RAB member) said it will be 3 ft, 6 inches. The idea of the project was to restore the area and have water flowing, not to have boats in the area. It has both positive aspects (more water flow) and negative aspects (trash moving into the mangroves).
- Rafael Montes (RAB member) said that he understands that the area also will be used for recreation in the future. Why not build a bridge that will allow bigger boats to pass through? Neida Pumarejo explained that she is an attorney, not a biologist, so she can't speak to the conditions of the mangrove. The PRCT will not allow activities that are harmful to nature; they will protect the areas.
- Community member asked EPA how much it cost and if it was a fine for the spill in 1999? Timothy Gordon replied that as he understands it, an assessment study was done, and if there was harm, which in this case there was, a mitigation measure must be implemented. That is the equivalent of a fine.

- Ismael Velázquez applauded the action taken by the Navy in this case. But he does have a concern: who will keep the mouth of the channel open, free of debris and sediment? Jeff Meyers (Navy BRAC Environmental Coordinator) said the PRCT will manage the property as it sees fit.
- Lirio Marquez suggested that the PRCT begin discussion with the local fishermen in the area to work out a good management plan for the use of that area.
- Agustin Velázquez (RAB member) said if the fuel spill killed all of the fauna of the area, a resource for food was taken away from the local poor people. Pedro Ruiz clarified that the spill didn't occur in the mangrove area where the bridge is constructed, that this area had absolutely no contact with the fuel. *[See Attachment 2, Presentations, pages 5-6, for maps showing the spill area and the restoration area.]*
- Luis Velázquez (RAB member): Doesn't understand because the mangrove that was killed is closer to the mouth of the channel. Pedro replied that the intention of the mitigation project is to restore the area to its prior condition; nothing was contaminated in the mouth of the channel to the mangroves.
- Ismael Velázquez said that the Navy is compensating for the damage done to the mouth by the mitigation project that they're implementing.
- Francisco Fronteras believes that the DNER and PRCT do not have the staff or resources to make adequate management decisions in these technical areas because of lack of money and resources. He believes that these opportunities to do analysis and monitoring are very valuable.
- Neida Pumarejo asked Francisco Fronteras to visit one of the reserves (Hacienda La Esperanza) to see what they are capable of doing. They are managing 22 protected areas in Puerto Rico. They consider this mangrove protection/mitigation project extremely important. Also, the Navy will not be relieved of the responsibility for completing this project.
- Jorge Porto added that DNER will very soon be a stakeholder of this land, and they should send a representative to these meetings to answer questions from the community.
- Rafael Montes (RAB member) asked if there is another way for the DNER to persuade the government to move the small arms firing range to an area that is not a protected conservation area and is also not in a recreational use area? If it is used for that purpose, they will have to restrict that entire area from public use.

IV. WHAT'S NEW

Jeff Meyers provided an update on the Finding of Suitability for Transfer (FOSTs) for the Hospital and Conservation parcels, and the current status of the CDR. He invited RAB members to log into the new Roosevelt Roads marketing website (<http://www.roosey-roads.com/>) to see and hear a presentation of the status of sites on the parcels that will be put up for sale.

- Alfonso Martínez (LRA) stated that the LRA has urged the Governor not to sign the CDR yet. Antonio Colorado met with the Governor and wants to assure the RAB of this fact.
- Lirio Marquez has visited the website and said she was not aware that the parcels on the waterfront were marked for sale as Parcel 1. Jeff Meyers explained that the map is intended to show that whoever buys the sale parcels will be able to use the facilities on the waterfront.
- Luis Velázquez asked about Punta Puerca and the parcel close to the airport, which have been marked for sale. Alfonso Martínez responded that Antonio Colorado has already written a letter to the Forest Service and the DNR/Conservation Trust saying that Punta Puerca should be taken out of the sale area.
- Luis Velázquez said that there have been no public hearings with the community to discuss these issues. The local people know valuable information regarding these areas. Alfonso Martínez responded that the LRA will hold a meeting with the people (with Matrix and the mayor of Ceiba) to answer questions and concerns. The meeting will be on August 27, at 7:00 pm, at the Multiple Use Center in Ceiba. The Navy is also invited.
- Rafael Montes asked about the dry forest area across the bay, where the Coast Guard used to be (also known as the officers' beach, the housing beach). He said that this area was completely burned inside the mangroves. Alfonso Martínez (LRA) offered to go there with him so he can pinpoint the site. Jeff Meyers added that this will be part of the conservation parcel.
- A community member asked if these areas are open to the public? Alfonso Martínez (LRA) said that if the plans are finalized, they will make them available to the public before the next meeting.

V. RCRA PROCESS

Tim Gordon completed his presentation of the RCRA Corrective Action process. The weather conditions worsened (heavy rain), so the meeting ended at this point, with several agenda items not covered (see Attachment 2).

VI. MEETING CLOSURE

The next RAB meeting will be in October. The meeting closed at 8:45 PM.

ATTACHMENT 1 - Meeting Attendees

| RAB Community Members in Attendance | RAB Community Members Absent |
|---|---|
| Carlos Brown | Noraida Vázquez Arce |
| Samuel Caraballo | John Henry |
| Jorge Fernández Porto | Jimmy Concepción Robles |
| Francisco Frontera (for William Lourido) | Ángel de Jesús Matta |
| Lirio Márquez D'Acunti | José Díaz |
| Rafael Montes | Rogelio Figueroa |
| Agustín Velázquez Santos | Daniel E. González |
| Ismael Velazquez | Debra McWhirter |
| Luís A. Velázquez Rivera | Ramón M. Ríos |
| | Ramón D. Figueroa, Community Co-Chair (excused) |
| | Myrna Maldonado |
| Community Members Visiting | |
| Manuel Martinez | Lilyana Betancourt |
| Danny Velázquez | Manny Flores |
| Maria M. Avila | Angelo Cruz |
| Jose R. Candelaria | Hiram Rivera |
| Placido Diaz | José A. Rosa |
| Aurelio Colon Santiago | |
| RAB Agency Representatives in Attendance | |
| Mark Davidson, Navy Co-Chair | Remedial Project Manager for the former Naval Station Roosevelt Roads |
| Timothy Gordon | U.S. EPA, Remedial Project Manager |
| Wilmarie Rivera | Junta de Calidad Ambiental de Puerto Rico |
| Josefina González | Junta de Calidad Ambiental de Puerto Rico |
| Neida Pumarejo Cintrón | Fideicomiso de Conservación |
| Alfonso Martínez | Portal del Futuro (LRA) |
| Other Agency Representatives Present | |
| Pedro Ruiz | Environmental Program Manager, Naval Activity Puerto Rico (NAPR) |
| Jeffrey Meyers | BRAC Environmental Coordinator, Navy Program Management Office Southeast |
| Support Staff Present | |
| Susana Struve | CH2M HILL, Inc. (meeting facilitator, Navy contractor) |
| Mark Kimes | Baker Environmental, Inc. (Navy Installation Restoration Program, Contractor) |
| Sara Vivas | CH2M HILL, Inc. (meeting notes, Navy contractor) |

ATTACHMENT 2 - Meeting Presentations

Restoration Advisory Board (RAB) Meeting

Former Naval Station Roosevelt Roads
Ceiba, Puerto Rico

August 7, 2007



Tonight's Agenda

Welcome and Introductions

Mark Davidson, Navy Co-Chair

Action Items from June Meeting

Mark Davidson

RAB Members' Topics

Mark Davidson

- Environmental Restoration (Fuel Spill)
- Utilities and Residual Contamination
- Piñeros Island
- Role of State Agencies in Cleanup

What's New

Jeff Meyers, Navy

- Status of Covenant Deferral Request
- Findings of Suitability to Transfer

Break (7:10 – 7:20 pm)

RCRA Process

Timothy Gordon, EPA

RAB Charter

Susana Struve, CH2M HILL

Other Public Comments/Questions

RAB Members and Visitors

Planning Next Meeting/Closing

Susana Struve



Action Items from Last Meeting

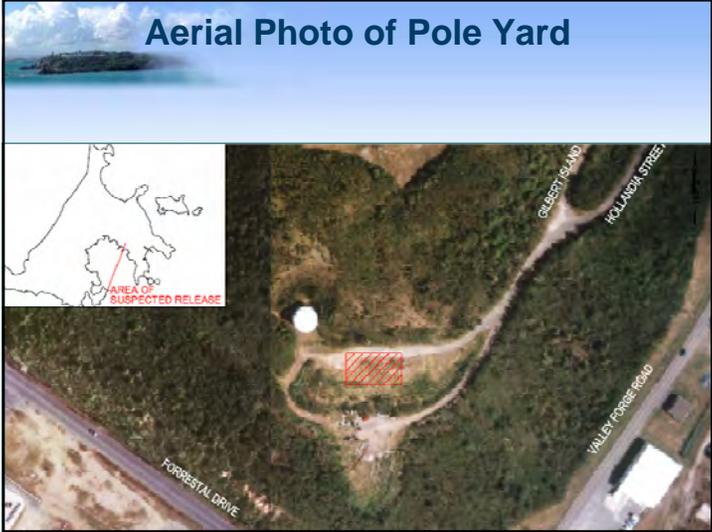
| Action Item | Status |
|--|----------------|
| Navy: Provide a list of upcoming documents for the RAB members to identify where they would like technical assistance. | <i>New</i> |
| Navy: Provide information about Area 46C, where RAB Member Ismael Velásquez believes that transformers contaminated the soil with PCBs. | <i>Ongoing</i> |
| Navy and RAB Members: Develop and sign the Roosevelt Roads RAB Charter. | <i>Ongoing</i> |



Pole Yard Transformer Site

Site identified by Ismael Velasquez during June 2007 RAB Meeting







Background

- Transformers date back to Hurricane Hugo, September 1989
- Most transformers were labeled “Non PCB”
- Reported to contain mineral oil
- Concrete pad had secondary containment wall, with drainage valve



Initial Plan

- Dig and remove soil based on staining and areas of stressed vegetation.
- Take confirmation samples after the dig to ensure no contaminants remain.



Soil Removal

- First week of July 2007, contractor dug an area 5 feet x 3 feet x 2 feet deep.
- However, additional stained soil was observed at depth in the hole.
- Decision: Stop digging due to the uncertainty of the extent of stained soil.





Revised Approach

- Conduct field investigation (sampling and analysis) to delineate the nature and extent of stained soil and stressed vegetation
- Based on the results of the investigation, further action will be determined



RAB Members' Topics

Mark Davidson, Navy Co-Chair

August 7, 2007



Airport Fuel Spill

- Fuel Spill from Tank No. 429 at the NSRR Airfield on October 19, 1999
- Response taken immediately upon notice of fuel spill
- Sampling was conducted in December 1999 to determine extent of fuel spill



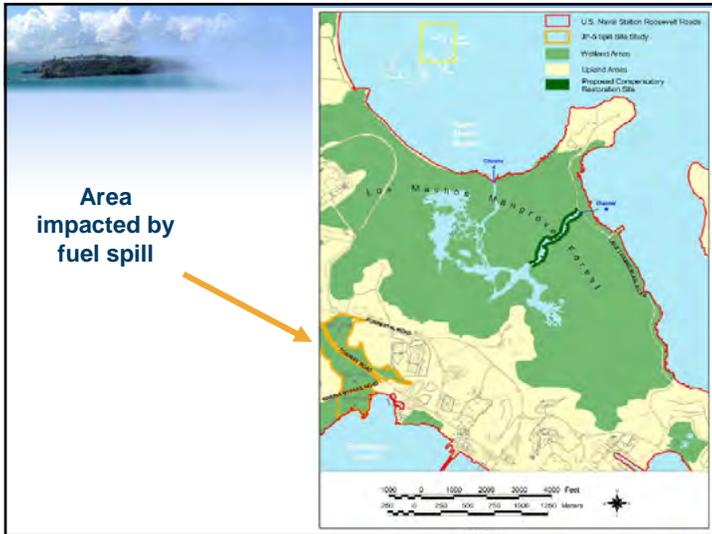


Photo 1:
Dike at Forrestal/Langley Drive



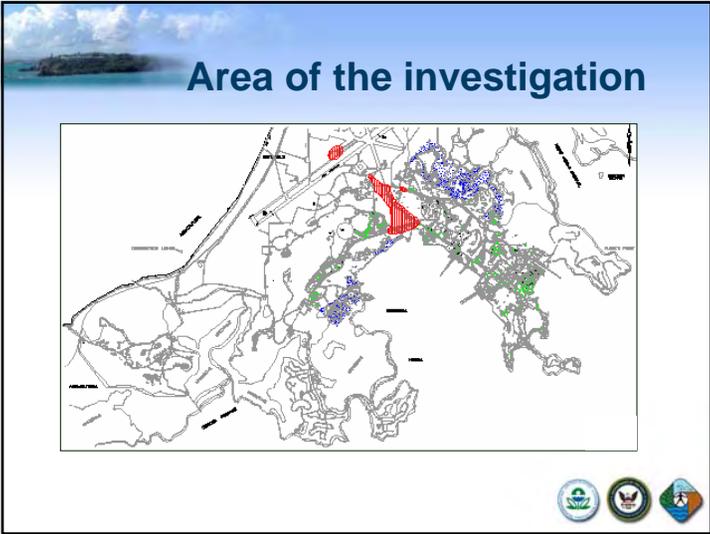
Photo 2:
Dead grass along the ditch



Photo 3:
Piping at Marina Bypass



Photo 4:
Skimmer





Environmental Restoration Measures

- **Compensatory restoration project in the Los Machos mangroves**
 - Compensate by restoring another natural area, of equal or greater environmental value than the affected area (before the spill)
 - Restoration area shown on next slide
- **Project included bridge replacement at channel crossings on Lake Chamberlain Road**




U.S. Naval Station Roosevelt Roads
 2010-2011 Site Study
 Wetland Area
 Liquid Area
 Proposed Compensatory Restoration Site

Compensatory Restoration Project Area




Environmental Restoration Measures, continued

- **Restoration of the hydrology to 1,000 acres of the Los Machos Mangrove Forest, by**
 - Removing the access road
 - Replacing it with a 75-ft channel and bridge, and
 - Reconnecting the original drainage patterns by dredging






NAPR Utilities

- **Utilities at NAPR have been investigated/evaluated during their lifetime.**
 - Phase I and Phase II Inflow/Infiltration Study of the Basewide Sanitary Sewer System
 - *Corrective measures including pipeline replacement, manhole repairs, etc... were performed as a result of this study.*
 - Monitoring of regulated stormwater outfalls
 - *Attached image shows drainage boundary associated with regulated Outfall 015.*

Mothballing fuel tanks and piping

- **27 Defense Energy Support Center (DESC) tanks were emptied, cleaned, degassed, capped and deactivated as of July 15, 2005.**
 - aboveground storage tanks (ASTs)
 - cut and cover tanks (tanks covered by soil)
- **All interconnecting piping serving the tanks were drained and excess fuel was removed by mechanical pigging.**
 - Pigging: cleaning out the pipes by pushing a plug through, to remove any remaining fuel that was not drained by gravity.



Fuel Pipelines and Hydrant Pits (SWMU 74)

- A CMS Investigation is proposed for the fuel lines, hydrants, and valve pits at NAPR (next slide)
- **Phase I CMS Investigation:**
 - Investigate approximately 40,000 feet of pipeline, sampling every 100 ft for approximately 400 soil borings
 - Sample another 54 soil borings at the 27 valve pit locations
 - Sample groundwater at areas of suspected contamination and approximately one out of every ten soil boring locations
- **Phase II CMS Investigation:**
 - Delineate any contamination identified during Phase I



Piñeros Island Update

- **Sept 15, 2007: Submit documents**
 - Explosive Safety Submission (ESS) to Naval Ordnance Safety and Security Activity (NOSSA)
 - Fieldwork Workplan to BRAC Cleanup Team and other regulators for review
 - National Marine Fisheries Service
 - U.S. Fish and Wildlife Services
- **January 15, 2007: Conduct fieldwork**
 - After turtle nesting season, because there will be digging along the four beaches.

Role of State Agencies in Cleanup

- **EQB is a member of the BRAC Cleanup Team (BCT)**
 - Reviews and comments on documents
 - *Piñeros Munitions and Explosives of Concern (MEC) investigation*
 - *Community Environmental Response Facilitation Act (CERFA) Clean*
 - *Findings of Suitability to Transfer (FOSTs)*
 - *Covenant Deferral Request (CDR)*
 - *Other select RCRA documents*
 - *RCRA 7003 Order on Consent*
 - Provides input/guidance on environmental issues



Role of State Agencies in Cleanup, continued

- **PR Dept. of Natural Resources (PRDNR)**
 - Provides input on the Piñeros Island approach
- **NOTE: Primary oversight of the RCRA corrective action program is EPA**



What's New!

Jeff Meyers, Navy

August 7, 2007



What's New

- **Hospital Finding of Suitability for Transfer (FOST)**
- **Conservation FOST**
- **Covenant Deferral Request**
- **Roosey-roads.com**





Hospital/Conservation FOSTs

- **Conservation FOST signed**
 - Navy will assign properties to U.S. Department of Interior (DOI) in 4 to 6 weeks
 - DOI will issue quitclaim deed to Puerto Rico Department of Natural and Environmental Resources



Hospital/Conservation FOSTs, continued

- **Hospital FOST signed**
 - Waiting on Certificate of Need from applicant to U.S. Department of Health and Human Services (DHHS)
 - Navy will assign property to DHHS after Public Benefit Conveyance application is approved
 - DHHS will then issue quitclaim deed to Servicios de Salud Episcopales, Inc. Hospital



Covenant Deferral Request

- **Navy signed CDR on July 17, 2007**
- **Will send to Governor in the next week**
- **CDR includes “Responsiveness Summary” - responses to all public comments**
- **Navy currently translating Responsiveness Summary**



ROOSEY-ROADS.COM

- **Navy-operated website**
- **Used to market the 3 sale parcels**
- **Includes information for potential bidders to evaluate status and cost for environmental sites**



Overview of the RCRA Process

Timothy Gordon
U.S. Environmental Protection Agency

August 7, 2007



RCRA CORRECTIVE ACTION STAGES

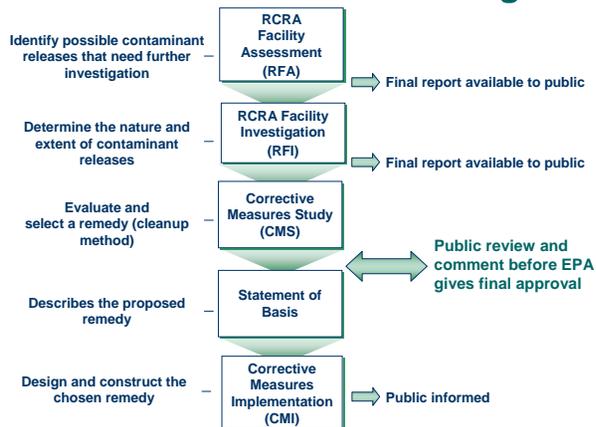
Restoration Advisory Board Meeting

Former Naval Station Roosevelt Roads

August 7, 2007



RCRA Corrective Action Stages



RCRA Facility Assessment (RFA)

- Identifies the solid waste management units (SWMUs) and areas of possible contamination not directly linked to a SWMU, i.e., areas of concern (AOCs)
 - Includes a "file review" and a "visual site inspection" (VSI) to identify suspected areas of past and/or current waste management (solid and/or hazardous) and/or contamination;
 - Also, includes an evaluation (based on the nature and design of the waste management unit or units and/or visual evidence) of whether or not a release of hazardous waste or constituents is suspected to have occurred from the unit or units.
- Based on the results of the RFA, a determination is made that either:
 - There is no indication of releases of solid or hazardous waste or hazardous constituents, or
 - A RCRA Facility Investigation is required to confirm whether or not a releases of solid or hazardous waste or hazardous constituents has occurred, and if a release is indicated, to fully characterize the nature and extent of that release.

RCRA Facility Investigation (RFI)

The investigation stage

- Two Types of RFI
 - Phase I RFI (a/k/a “release assessment”)
 - Confirm through environmental sampling whether or not releases of hazardous waste and hazardous constituents are present from units identified in the RFA
 - Determine whether or not a full RFI is required.
 - Full RFI
 - Purpose is to fully characterize the nature and extent of any releases of hazardous waste and hazardous constituents.

RCRA Facility Investigation (RFI)

continued

- Based on the RFI, a determination is made that either:
 - No significant release is confirmed, and a Corrective Action Complete determination can be made at that point, or
 - A Corrective Measures Study (CMS) is required.
- The RFI Final Report is generally not made available for public review before being approved by EPA
 - Unless a Corrective Action Complete final determination is made, based on the RFI report.

Corrective Measures Study (CMS)

- Evaluate corrective measure alternatives, and select the final corrective measure
 - Measures that could be used to address any releases determined, based on the results of the RFI, to represent potentially an unacceptable threat to human health and/or the environment
- Based on the results of the CMS Final Report, EPA conditionally selects the final corrective measure that will be protective of human health and the environment.

Corrective Measures Study (CMS)

continued

- A Statement of Basis may be prepared, summarizing the basis for selecting the final corrective measure.
- The Statement of Basis and CMS Final Report are made available for public review before being officially approved by EPA.

Corrective Measures Implementation (CMI) Plan

- Detailed design, construction, and operation plan
 - for implementing, maintaining, and monitoring the corrective measure selected during the CMS and Statement of Basis stage
- Generally not made available for public review, if the CMS and Statement of Basis have undergone public review.

CORRECTIVE ACTION COMPLETE DETERMINATION

- Corrective Action Complete means a determination has been made that either:
 - No clean-up/remedial measures are required for the unit or units; or
 - The unit or units has/have been acceptably cleaned up to protect human health and the environment.
 - Such a determination is made pursuant to the EPA guidance given in "Guidance on Completion of Corrective Action Activities at RCRA Facilities" (*Federal Register* Volume 68, No. 37, 2/25/03)

CORRECTIVE ACTION COMPLETE

- Two types of Completion Determinations are recognized:
 - a) Corrective Action Complete without Controls
 - b) Corrective Action Complete with Controls
- Corrective Action Complete without Controls:
 - Allows future unrestricted site usage, such as for residential housing or schools

CORRECTIVE ACTION COMPLETE with CONTROLS

- May include requirements such as Institutional or Land Use Controls, which may:
 - Prohibit the future usage of the property for certain types of activities (such as housing or schools);
 - Restrict groundwater or surface water usage, restrict excavation activities, and/or
 - Require periodic monitoring of air, soil, groundwater, surface water or subsurface gas, as necessary to protect human health and the environment, when site-specific circumstances indicate

Presenter

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RAB Charter

Susana Struve, Facilitator

August 7, 2007



RAB Charter

- **A charter signed by members sets up:**
 - Policies on attendance
 - Procedures for replacing, adding, or removing members
 - Length of service for Community Co-Chair
 - Methods of resolving disputes
 - Process for incorporating public input



RAB Charter

- The Navy provided the RAB with several sample charters from other installations
- RAB members submitted to the Navy a draft charter for NAPR
- The Navy submitted a revised draft charter to RAB members
- A conference call will be scheduled (RAB and Navy) to finalize the charter and develop the NAPR RAB mission statement



Questions? Comments?




Closing: Action Items

| New Action Item | Person (s) Responsible |
|-----------------|------------------------|
| | |
| | |
| | |



Closing

- **RAB meetings every other month**
 - Next meeting mid-October
 - *At Club Cívico La Seyba, if available*
 - Please remember to call ahead, or send an alternate, if you cannot attend
- **Agenda suggestions for next time?**
 - Call Ramón Figueroa, Community Co-Chair (787-235-1473)
- **Thank you for participating!**



Questions between meetings

Mark Davidson or David Criswell
Navy BRAC Program Management Office Southeast
 4130 Faber Place Dr, Ste 202
 North Charleston, SC 29405
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 843-743-2130 (Criswell)
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 Ave. Ponce de Leon #1308
 Carr Estatal 8838, Sector El Cinco
 Rio Piedras, PR 00926
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 wilmarierivera@jca.gobierno.pr




ATTACHMENT 3 - Meeting Handouts



Restoration Advisory Board (RAB) Meeting #5
Reunión de la Junta Consejera para la Restauración #5
Antigua Base Naval Roosevelt Roads (NAPR)
August 7, 2007 (7 de agosto del 2007)

Upcoming technical documents and estimated dates (as of July 31, 2007)
Próximos documentos técnicos y fechas estimadas (hasta el 31 de julio del 2007)

| SWMU/ AOC | Description | Final Documents | Submit to EPA | Comments |
|----------------------|---|--|--------------------------|-----------------|
| 68 | Former Southern Training Area | Phase I RFI Report | 12/2/2007 | (1) |
| 16 | Waste Explosives Storage (Bldg 1666) | Phase I RFI Report | 12/15/2007 | (1) |
| 42 | Water Treatment Plant Filter Backwash Lagoons | Phase I RFI Report | 12/15/2007 | (1) |
| A | Torpedo Shop | Phase I RFI Report | 12/15/2007 | (1) |
| 9 | Area B Tank 214 Area Sludge Burial Pits | RFI Report | 12/27/2007 | (1) |
| 27 | Domestic Sewage Treatment Plant (Capehart Area) | Phase I RFI Report | 1/13/2008 | (1) |
| 28 | Domestic Sewage Treatment Plant (Bundy Area) | Phase I RFI Report | 1/13/2008 | (1) |
| 29 | Waste Water Treatment Plant (Industrial Area) | Phase I RFI Report | 1/13/2008 | (1) |
| 45 | Exterior of Building 38, Old Power Plant | Steps 6 and 7 of the Baseline Ecological Risk Assessment | 1/27/2008 | (1) |
| 1 | Former Army Cremator Disposal Site | Steps 6 and 7 of the Baseline Ecological Risk Assessment | 3/2/2008 | (1) |
| 2 | Former Langley Drive Disposal Site | Steps 6 and 7 of the Baseline Ecological Risk Assessment | 3/30/2008 | (1) |
| 9 | Tanks 212-217 Sludge Burial Pits | Steps 6 and 7 of the Baseline Ecological Risk Assessment | 4/27/2008 | (1) |
| E | Piñeros and Cabeza de Perro Islands | Phase I RFI Report | July 2008 | (1) |

Acronyms and Terminology/ Acrónimos y Términos usados

RFI report: RCRA Facility Investigation report / *Reporte de Investigación de Instalaciones RCRA*

CMS: Corrective Measures Study / *Estudio de Medidas Correctivas*

EPA: U.S. Environmental Protection Agency / *Agencia de Protección Ambiental de los EEUU*

Baseline Ecological Risk Assessment / *Evaluación de Riesgo Ecológico Base*

Comments

(1) - Assumes EPA Review time of 90 days on Draft document / *Asume un tiempo de revisión de 90 días del borrador del documento por EPA.*

This list provides the estimated submittal dates of final technical documents, so that the RAB can consider which documents they might require technical assistance to understand. These are not decision documents, and as such, will not be released for formal public comment before being finalized. However, reviewing these final documents will help RAB members prepare to comment on the associated decision documents (such as Corrective Measures Studies and Statements of Basis). Submittal dates for those documents cannot be estimated at this time, but would likely be at least six to nine months after the RCRA Facility Investigation reports.

Esta lista provee una fecha estimada en la que se someterán los documentos técnicos finales, para que el RAB considere los documentos para los que necesitan asistencia técnica para poderlos entender mejor. Estos no son documentos de decisión, y como tal, no serán divulgados para comentarios públicos formales antes de ser finalizados. Sin embargo, la revisión de estos documentos finales ayudará a los miembros del RAB a prepararse para comentar sobre los documentos de decisión asociados (como son el Estudio de Medidas Correctivas y las Declaraciones de Bases). Las fechas de sumisión de estos documentos no pueden ser estimadas en este momento, pero posiblemente saldrán al menos de seis a nueve meses después de los Reportes de Investigación de Facilidades RCRA.

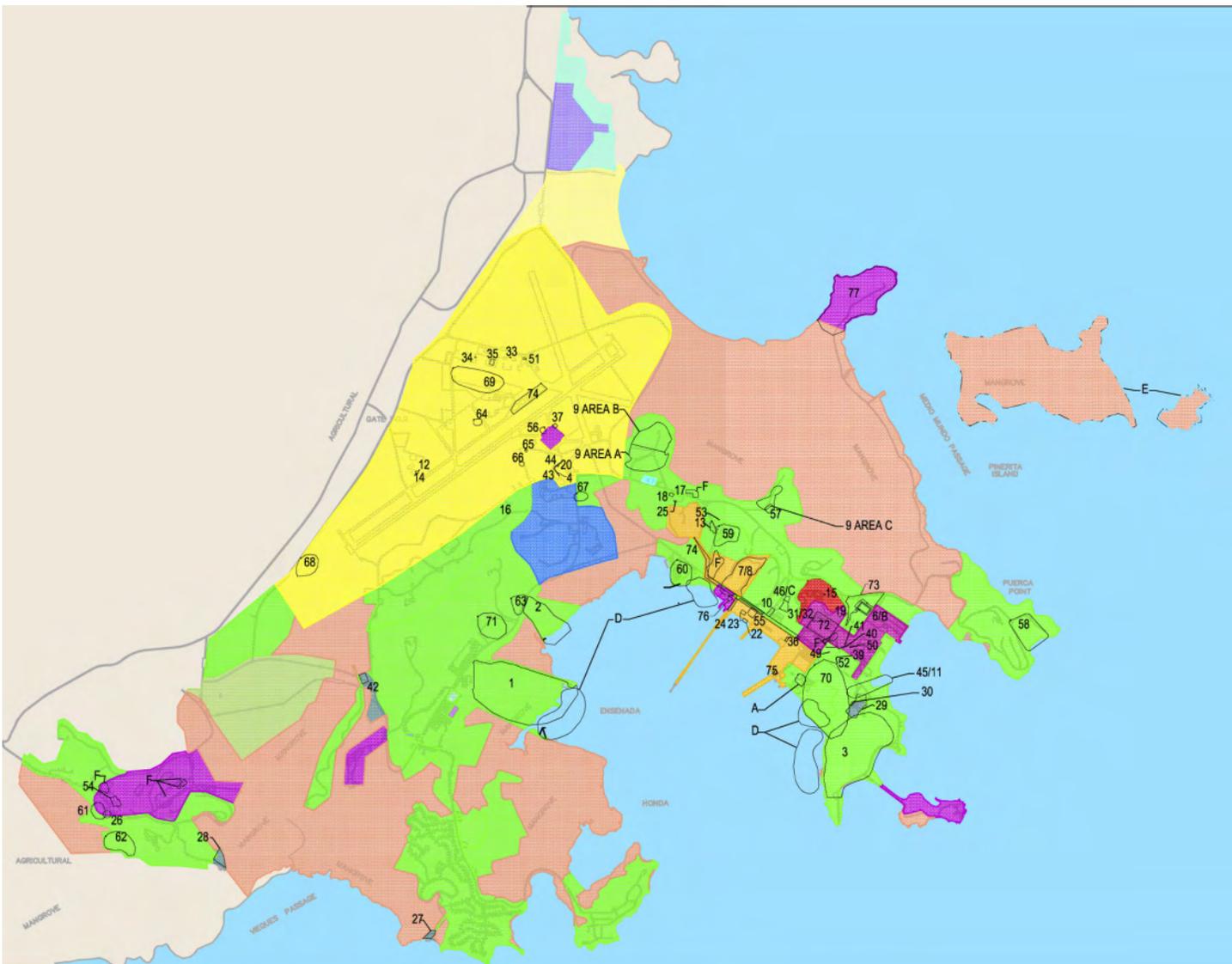
Final technical documents about the sites being investigated will be available to the public in the public library and on the Navy's website.

Los documentos técnicos finales sobre los sitios bajo investigación estarán disponibles al público en la biblioteca pública y en la página del Internet de la Marina.

Website/página del Internet: <http://nsrr-ir.org/>

Ceiba Public Library
Biblioteca Pública (al lado de Alcaldía)
Lauro Piñero Ave, Plaza de Recreo
Ceiba, PR 00735

Hours/Horas:
Monday-Friday/Lunes-Viernes
8:00 – 6:00 pm
Teléfono: 787-885-2180

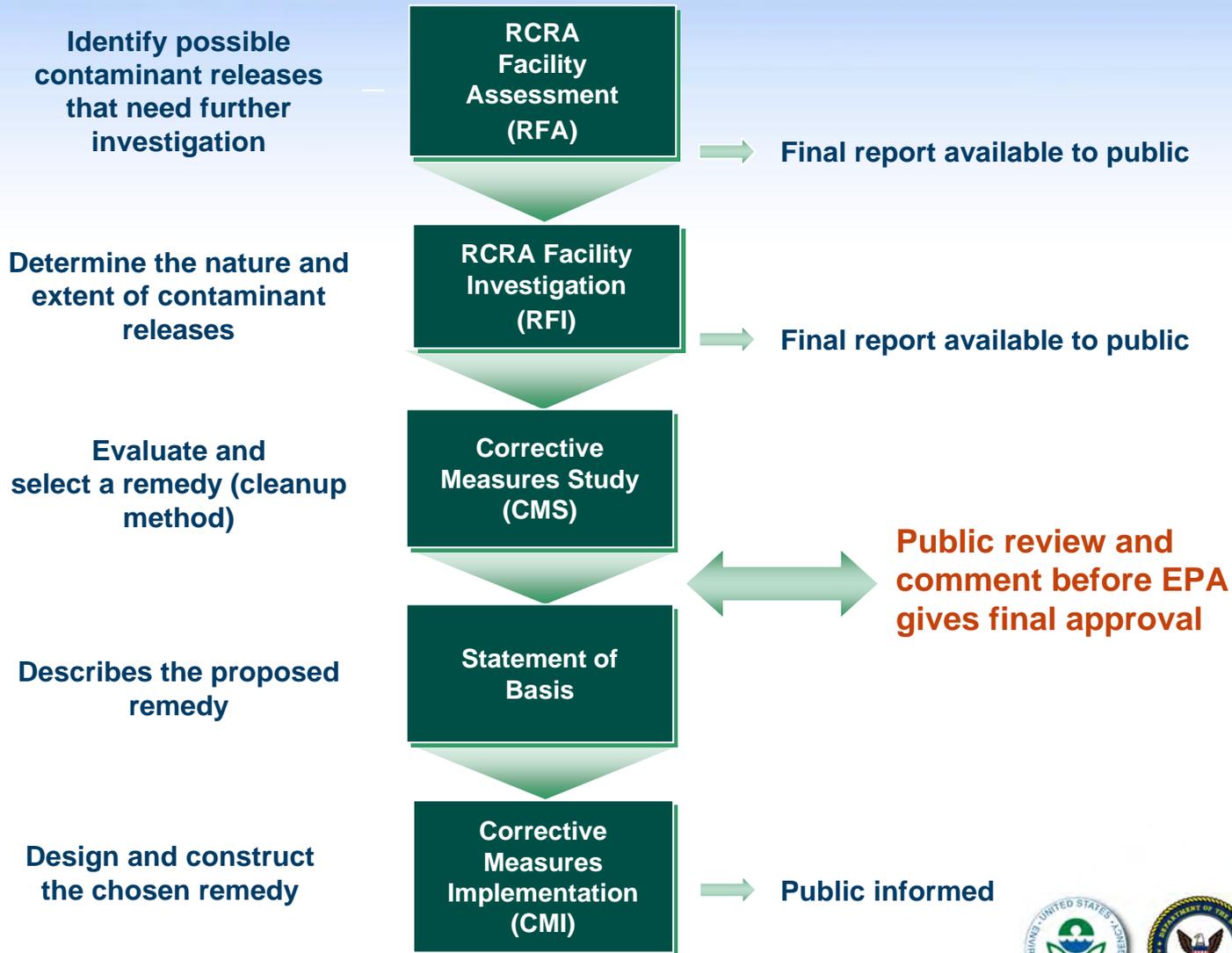


Map Showing Sites and Planned Land Use at the Former Naval Station Roosevelt Roads

Mapa Mostrando de los Sitios y el Uso Planificado en la Antigua Base Roosevelt Roads

| LEGEND | | LEYENDA | |
|----------------|--------------------|------------------------|-----------------------------------|
| PLANNING ZONES | | ZONAS DE PLANIFICACION | |
| | AIRPORT | | AEROPUERTO |
| | BOWLING ALLEY | | BOLERA |
| | CONSERVATION | | CONSERVACION |
| | EDC (FIRESTATION) | | EDC (ESTACION DE BOMBEROS) |
| | FEDERAL | | FEDERAL |
| | GOLF COURSE | | CAMPO DE GOLF |
| | HEALTH CLINIC | | CLINICA PARA LA SALUD |
| | HOMELESS PROVIDER | | PROVEEDOR PARA PERSONAS SIN HOGAR |
| | HOSPITAL | | HOSPITAL |
| | LOS MACHOS BEACH 1 | | PLAYA LOS MACHOS 1 |
| | LOS MACHOS BEACH 2 | | PLAYA LOS MACHOS 2 |
| | LOS MACHOS BEACH 3 | | PLAYA LOS MACHOS 3 |
| | PRPA (CG RANGES) | | PRPA (CG RANGES) |
| | PORT | | PUERTO |
| | SALE | | PARA LA VENTA |
| | SCIENCE PARK | | PARQUE DE CIENCIAS |
| | UNIVERSITY | | UNIVERSIDAD |
| | WATER TREATMENT | | PLANTA DE TRATAMIENTO DE AGUA |
| | SITE | | SITIO |

RCRA Corrective Action Stages



ATTACHMENT 4 - Magazine Area photos (March 2007 site tour)



Magazine Area

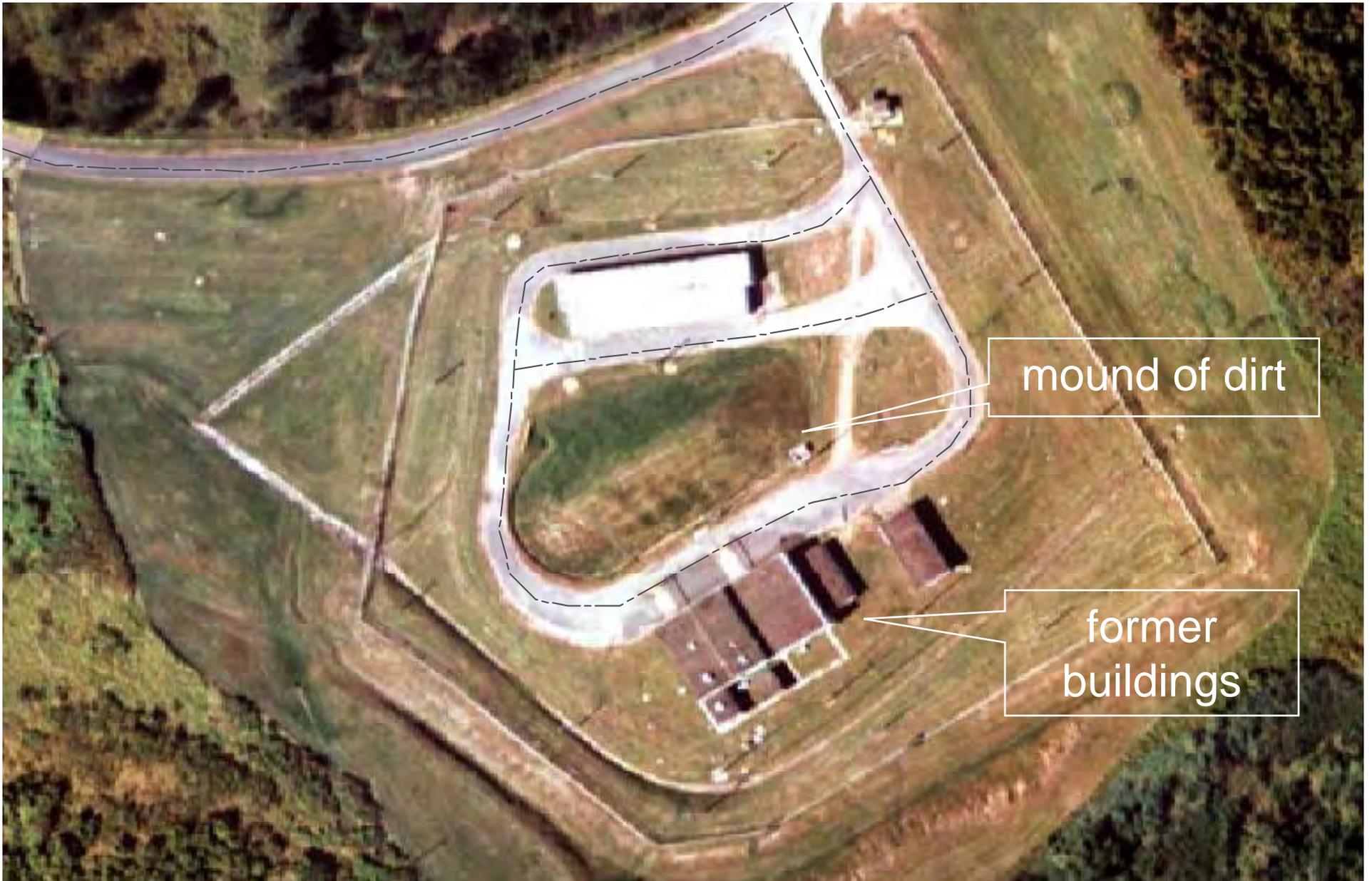




Magazine Area

- **Site was in operation from the late 1950s/early 1960s until early 2000s**
 - Storage of ammunition
- **Mound of dirt was placed at the site as a deflection barrier sometime between 1958 and 1961**
 - To protect nearby buildings in case of an accidental explosion
 - The buildings are no longer there





mound of dirt

former buildings

Deflection barrier placed between buildings and magazines

