Restoration Advisory Board (RAB) Meeting

Former Naval Station Roosevelt Roads
Ceiba, Puerto Rico

Meeting #21 – June 29, 2011

Tonight's Agenda

Welcome and Introductions	Mark Davidson, Navy Co-Chair
Cleanup update • Remediation • Recent Investigations	Mark Kimes, Baker Environmental
Recess (7:00 – 7:15 pm)	
What's New • Property Transfer Update • Supplemental Environmental Assessment	Mark Davidson
Other questions/comments	Members of the public
Planning Next Meeting and Closing	Susana Struve, Facilitator

Remediation
(SWMU 68, SWMU 1, Bldg 633, and SWMU 7/8)

Mark Kimes

Michael Baker Jr., Inc.

June 29, 2011

Aerial view of excavated areas and stockpiled soils awaiting disposal

SWMU 68 – Former Southern Fire Training Area

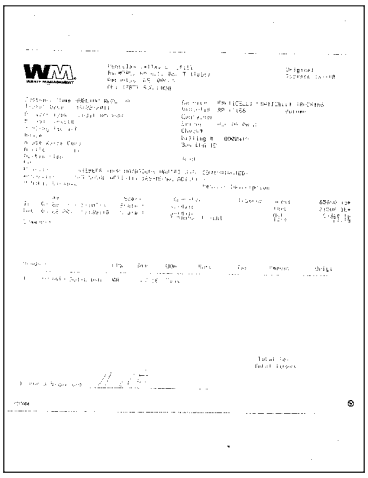
- **Surface soil at SWMU 68 was contaminated with metals**
- **Navy contractor removed the contaminated soil**
  - Right Way Environmental Contractors, Inc. (Naranjito, Puerto Rico)
- **Excavated two areas to a depth of two feet (ft) below ground surface**
  - 100 ft x 50 ft
  - 50 ft x 50 ft
  - An additional 470 square ft was excavated from the 50 ft x 50 ft area to remove contaminated soil
- **Removed approximately 590 cubic yards of soil**
  - Disposed of offsite at an approved landfill
- **Site has been restored**

Excavated soil was placed into trucks and transported to Peñuelas Valley Landfill

A total of 1,069.28 tons of soil was disposed of as non-hazardous waste at Waste Management's Penuelas Valley Landfill

NAPR CONTRACT NO. N69450-08-C-0093
SWMU 68 DISPOSAL LOG
NON-HAZ WASTE

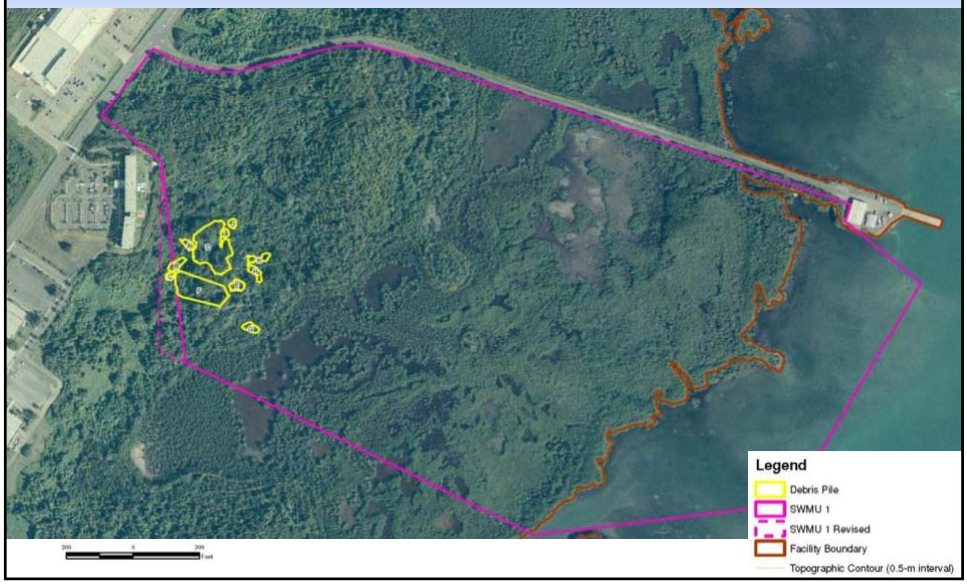
Date	Manifest #	Vehicle #	Disposal Facility	Quantity o/y	GVW	TW	Net in Pounds	Total Tons
3/22/2011	NH001	RP 11168	Waste Management		85,860	31,500	54,360	27.18
3/22/2011	NH002	RP 4848	Waste Management		97,080	34,520	62,560	31.28
3/22/2011	NH003	RP 8892	Waste Management		80,360	29,420	50,940	25.47
3/22/2011	NH004	RP 7275	Waste Management		86,160	35,020	51,140	25.57
3/22/2011	NH005	RP 11151	Waste Management		87,580	30,360	57,220	28.61
3/22/2011	NH006	RP 11158	Waste Management		96,260	31,840	64,420	32.21
3/22/2011	NH007	RP 4808	Waste Management		88,700	35,680	53,020	26.51
3/22/2011	NH008	RP 11773	Waste Management		80,800	33,300	47,500	23.75
3/22/2011	NH009	RP 8892	Waste Management		74,220	29,860	44,360	22.18
3/22/2011	NH010	RP 11604	Waste Management		80,300	36,400	43,900	21.95
3/22/2011	NH011	RP 7275	Waste Management		89,920	35,400	54,520	27.26
3/23/2011	NH012	RP 4848	Waste Management		84,400	34,640	49,760	24.88
3/23/2011	NH013	RP 11773	Waste Management		76,460	32,680	43,780	21.89
3/23/2011	NH014	RP 11158	Waste Management		77,940	31,680	46,260	23.13
3/23/2011	NH015	RP 7275	Waste Management		99,100	34,960	64,140	32.07
3/23/2011	NH016	RP 8892	Waste Management		77,120	29,360	47,760	23.88
3/23/2011	NH017	RP 11151	Waste Management		83,820	30,620	53,200	26.60
3/24/2011	NH018	RP 4848	Waste Management		97,880	34,480	63,400	31.70
3/24/2011	NH019	RP 11773	Waste Management		89,660	32,680	56,980	28.49
3/24/2011	NH020	RP 8892	Waste Management		29,500	29,420	50,080	25.04
3/24/2011	NH021	RP 7275	Waste Management		108,760	34,980	73,780	36.89
3/24/2011	NH022	RP 11151	Waste Management		86,060	30,300	55,760	27.88
3/24/2011	NH023	RP 11158	Waste Management		91,000	31,780	59,220	29.61
3/24/2011	NH024	RP 4848	Waste Management		91,800	34,840	56,960	28.48
3/24/2011	NH025	RP 11773	Waste Management		77,040	33,542	44,900	22.45
3/24/2011	NH026	RP 8892	Waste Management		70,140	29,720	40,420	20.21
3/24/2011	NH027	RP 7275	Waste Management		101,360	35,340	66,020	33.01
3/25/2011	NH028	RP 11773	Waste Management		74,420	33,040	41,380	20.69
3/25/2011	NH029	RP 11158	Waste Management		87,840	31,780	56,060	28.03
3/25/2011	NH030	RP 4848	Waste Management		85,200	34,840	50,360	25.18
3/25/2011	NH031	RP 8892	Waste Management		69,360	29,720	39,640	19.82
3/28/2011	NH036	RP 7275	Waste Management		103,400	34,880	68,520	34.26
3/28/2011	NH037	RP 4848	Waste Management		94,260	34,520	59,740	29.87
3/28/2011	NH038	RP 8892	Waste Management			29,660	50,600	25.30
3/28/2011	NH039	RP 11773	Waste Management		91,440	33,280	58,160	29.08
3/28/2011	NH040	RP 11158	Waste Management		80,000	31,700	48,300	24.15
								1,069.28



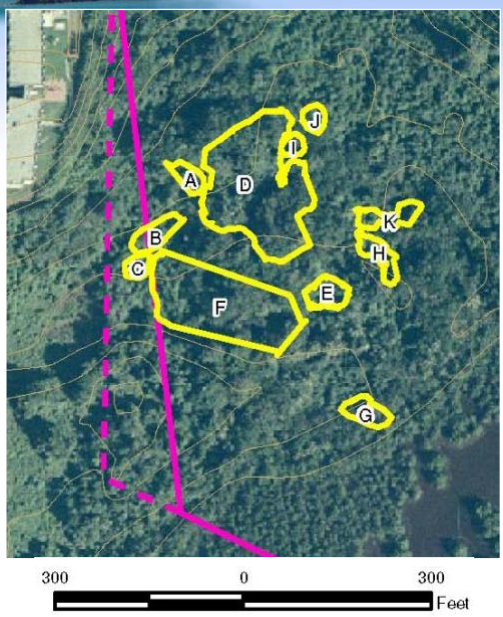
Placing clean soil into excavated areas

Grading the clean soil after it was placed into excavated areas

SWMU 1 - Former Army Cremator Disposal Site



Debris Piles A through K



- Debris piles investigated in April/May 2011.
- Debris piles were more extensive than expected.
- Scrap remains on site
- Will be certified and transported to recycler after the rainy season

Legend
Debris Pile
SWMU 1
SWMU 1 Revised
Facility Boundary
Topographic Contour (0.5-m interval)

Example Debris Piles

Performing a Mechanized Pile Separation

Chain attached to the excavator performing a mechanized separation.

UXO Technician observing pile separation from behind a blast shield

Items Found at SWMU 1

Munitions and Explosives of Concern (MEC)

• Rocket motor 5” Mk 10	5
• Unfired rocket motor for 3.5”	1
• Unfired fuze, Variable Time MK72-8 with booster cup	1
• Hand grenade, MK 2, unfuzed	1
• Total items found	8

Potentially Hazardous Items

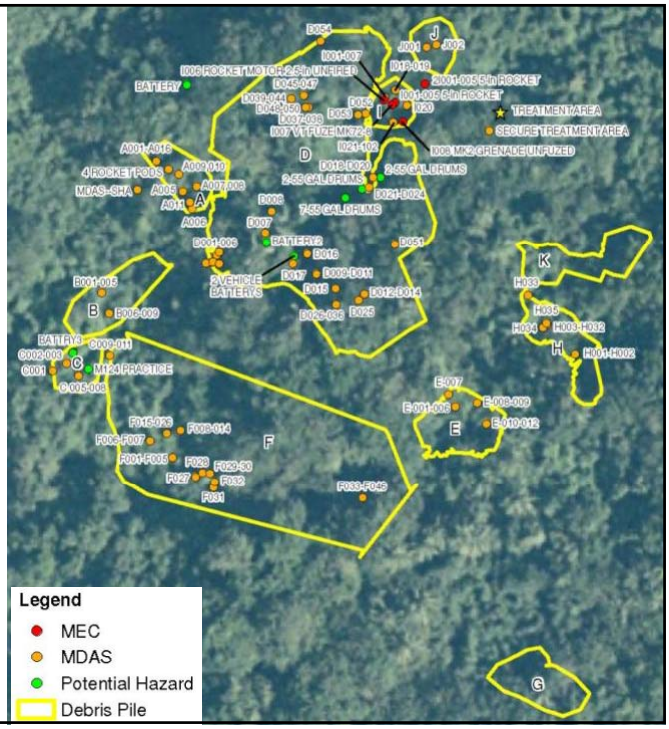
• Batteries (vehicle)	5
• Drums (55-gallon)	11
• Total items found	16

Material Documented as Safe (MDAS)

• Practice bomb	117
• Rocket motor	100
• Rocket pod	32
• Fuze	11
• Cartridge casing	11
• Rocket launcher	6
• Rifle grenade	2
• Rocket	2
• Rocket warhead	1
• Firebomb	1
• Total items found	283

- **Surface:** Location of MEC, MDAS, and Potentially Hazardous Material

- **Subsurface:** Indications that extensive subsurface anomalies are present



Example Material Documented as Safe (MDAS) Items

Example Munitions and Explosives of Concern (MEC) Items

Rocket motor 5" Mk 10 unfired

Rocket motor for 3.5" rocket, unfired

Fuze, Variable Time MK72-8 with booster cup

Hand Grenade, MK 2, unfuzed

Preparing Explosives

Placing sand bags around MEC items to control blast pressure

CDR Kalal setting off the detonation

- after he was notified by base security that no one was in the exclusion zone (EZ) around the site

After the blast: the remnants of the 5” rocket motors are visible next to the plywood

A total of 161.07 tons of scrap metal was removed from SWMU 1

NAPR CONTRACT NO. N69450-08-C-0093
SWMU 1 REMOVAL LOG

Date	Ticket #	Disposal Facility	Total Net Tons
4/28/2011	0325	JJW METAL CORP.	9.43
4/29/2011	0327	JJW METAL CORP.	4.79
4/29/2011	0329	JJW METAL CORP.	4.00
4/29/2011	0330	JJW METAL CORP.	5.53
4/29/2011	0331	JJW METAL CORP.	7.23
4/29/2011	202	HEDGESTONE PUERTO RICO, CORP	28.41
5/2/2011	0342	JJW METAL CORP.	8.36
5/2/2011	4862	HEDGESTONE PUERTO RICO, CORP	7.01
5/3/2011	0348	JJW METAL CORP.	4.20
5/3/2011	4912	HEDGESTONE PUERTO RICO, CORP	7.16
5/4/2011	0352	JJW METAL CORP.	5.93
5/4/2011	0353	JJW METAL CORP.	4.19
5/5/2011	4979	HEDGESTONE PUERTO RICO, CORP	3.42
5/5/2011	0356	JJW METAL CORP.	3.54
5/5/2011	0357	JJW METAL CORP.	6.46
5/5/2011	0358	JJW METAL CORP.	7.61
5/10/2011	0371	JJW METAL CORP.	6.52
5/10/2011	0372	JJW METAL CORP.	8.88
5/11/2011	0379	JJW METAL CORP.	6.26
5/12/2011	0384	JJW METAL CORP.	7.63
5/12/2011	0385	JJW METAL CORP.	8.20
5/12/2011	0388	JJW METAL CORP.	6.31
			161.07

Bldg 663 Asbestos Roof Removal

- **Concern was brought to the attention of the RAB that the damaged roof of this building contains asbestos**
- **The corrugated roofing material was sampled and determined to contain asbestos**
  - Not a past health risk because the material was not “friable” (crumbling)
  - Navy contractor removed the roof to prevent any future hazards as the roof material deteriorated and fibers could be released
    - *Right Way Environmental Contractors, Inc. (Naranjito, Puerto Rico)*
- **Approximately 3,500 square feet (35 cubic feet) of corrugated roofing material was removed**
  - Disposed of at an approved facility

Removing the Asbestos Roof

Workers removing the roof panels containing asbestos

Asbestos roof panels were wrapped in plastic for proper disposal

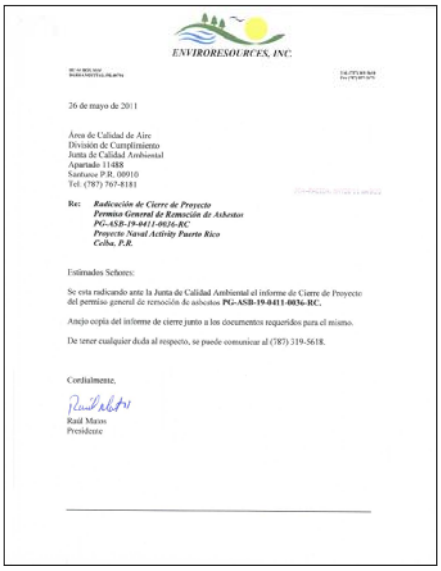
Safety measures were taken

Warning signs
- To keep people away during the removal

Plastic containment
- Around the area where workers removed their protective clothing at the end of the day

Air monitoring
- Inside and outside the building
- Verified that asbestos fibers were not released

PR EQB Permit Application for Asbestos Removal



ENVIRORESOURCES, INC.

26 de mayo de 2011

Área de Calidad de Aire
División de Cumplimiento
Junta de Calidad Ambiental
Apartado 11488
Santurce P.R. 00910
Tel. (787) 767-8181

Re: ***Radicación de Cierre de Proyecto***
Permiso General de Remoción de Asbestos
PG-ASB-19-0411-0036-RC
Proyecto Naval Activity Puerto Rico
Ceiba, P.R.

Estimados Señores:

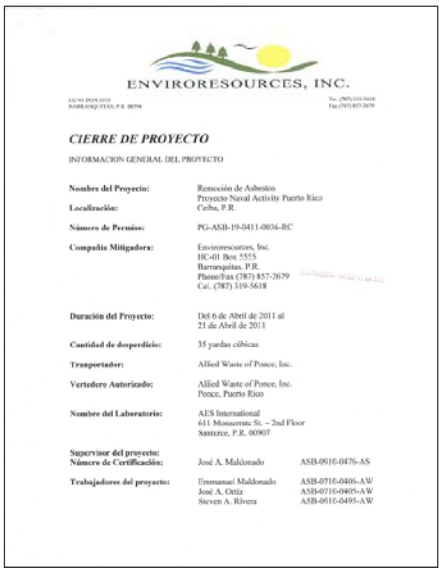
Se evia radicando ante la Junta de Calidad Ambiental el informe de Cierre de Proyecto del permiso general de remoción de asbestos **PG-ASB-19-0411-0036-RC.**

Anejo copia del informe de cierre junto a los documentos requeridos para el mismo.

De tener cualquier duda al respecto, se puede comunicar al (787) 319-5618.

Cordialmente,

Raúl Matos
Presidente



ENVIRORESOURCES, INC.

CIERRE DE PROYECTO

INFORMACION GENERAL DEL PROYECTO

Nombre del Proyecto:	Remoción de Asbestos Proyecto Naval Activity Puerto Rico	
Localización:	Ceiba, P.R.	
Número de Permiso:	PG-ASB-19-0411-0036-RC	
Compañía Mitigadora:	Enviroresources, Inc. HC-01 Box 5555 Barranquitas, P.R. Phone/Fax (787) 857-2679 Cel. (787) 319-5618	
Duración del Proyecto:	Del 6 de Abril de 2011 al 21 de Abril de 2011	
Cantidad de desperdicio:	35 yardas cúbicas	
Transportador:	Allied Waste of Ponce, Inc.	
Vertedero Autorizado:	Allied Waste of Ponce, Inc. Ponce, Puerto Rico	
Nombre del Laboratorio:	AES International 611 Monsenate St. – 2nd Floor Santurce, P.R. 00907	
Supervisor del proyecto: **Número de Certificación:**	José A. Maldonado	ASB-0910-0476-AS
Trabajadores del proyecto:	Immanuel Maldonado José A. Ortiz Steven A. Rivera	ASB-0710-0406-AW ASB-0710-0405-AW ASB-0910-0495-AW

SWMU 7/8 - Corrective Measure Implementation

- **The product recovery system was installed at the Tow Way Fuel Farm**
  - Week of June 20, 2011
- **The recovery system consists of:**
  - Solar powered skimmer pumps
    - *To remove fuel from groundwater*
  - Solar panels and controllers to run the pumps
    - *Mounted on/contained in trailers*
  - Collection tanks to receive the recovered fuel

Recent Investigations

(SWMUs 74, 78, 70, 79, and 62)

Mark Kimes

Michael Baker Jr., Inc.

June 29, 2011

SWMU 74 – Fueling Piers Area

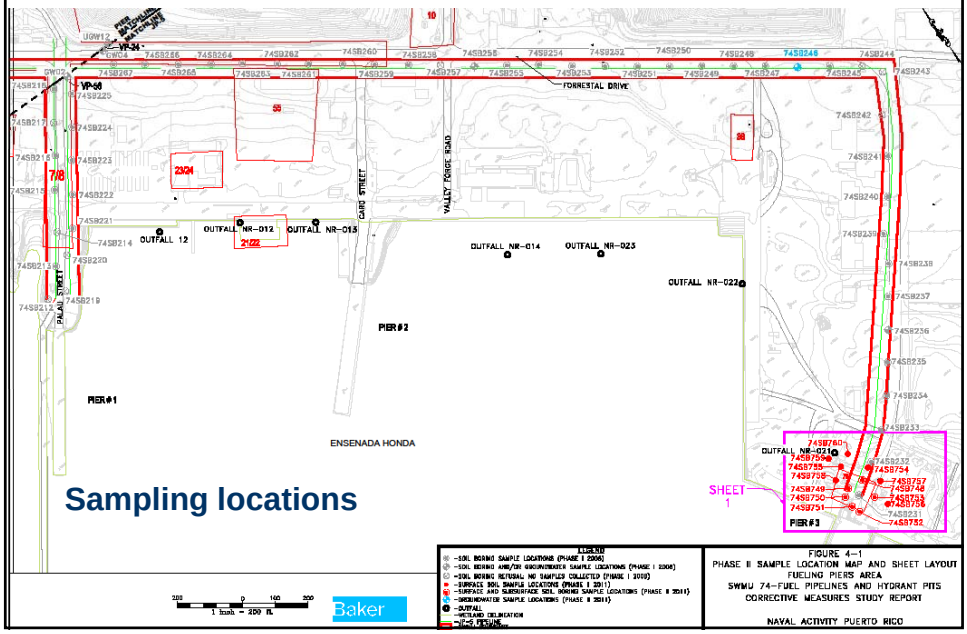
- **Mobilization 4/18–4/29/11**
  - *3 days in the field*
  - *3 field personnel*
- **13 soil borings Installed**
  - 4/18/11 to 4/29/11
- **No new wells installed**
- **Samples collected:**
  - 13 surface soil
  - 6 subsurface soil
  - 1 groundwater (existing well)
- **Local subcontractors**
  - GeoEnviroTech, Inc (Driller)
    - *Guaynabo, Puerto Rico*
  - Pedro Davila Colon, Inc (Surveyor)
    - *San Juan, Puerto Rico*

SWMU 74 – Fueling Piers Area

Subsurface soil drilling

Subsurface soil sampling

SWMU 74 – Fueling Piers Area



Sampling locations

SWMU 74 – JP-5 Hill and DFM Area

- **Mobilization 4/26–6/11/11**
  - *22 days in the field*
  - *10 field personnel*
- **76 soil borings installed**
- **10 wells installed**
- **Samples collected**
  - 76 surface soil
  - 208 subsurface soil
  - 17 groundwater
- **Local subcontractors**
  - GeoEnviroTech, Inc. (Driller)
    - *Guaynabo, Puerto Rico*
  - JFA Geological & Environmental Scientists (Driller)
    - *Aguadilla, Puerto Rico*
  - Pedro Davila Colon, Inc. (Surveyor)
    - *San Juan, Puerto Rico*

SWMU 74 – JP-5 Hill and DFM Area

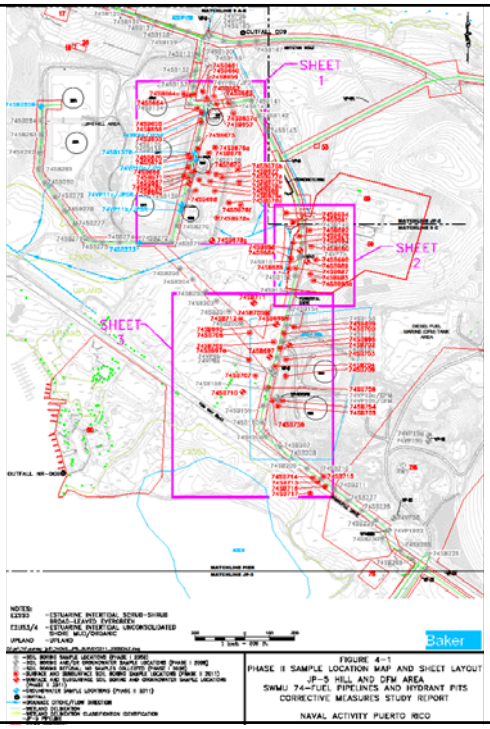
Sampling subsurface soil

Measuring groundwater elevation

Installing a groundwater monitoring well

SWMU 74 – JP-5 Hill and DFM Area

Sampling locations



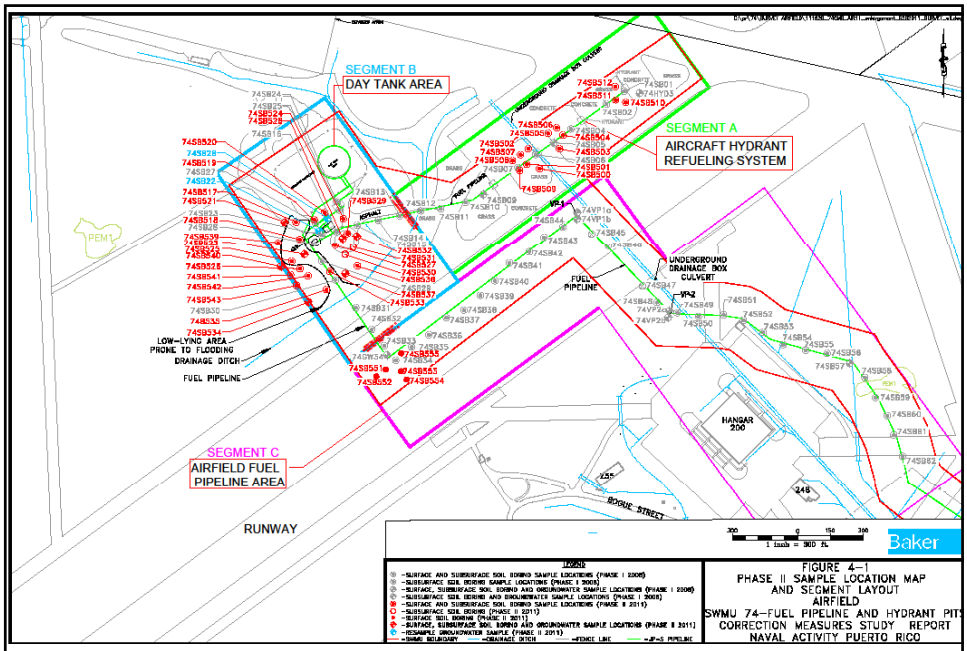
SWMU 74 – Airfield

- **Mobilization 5/16 – 6/14/11**
  - *15 days in the field*
  - *5 field personnel*
- **43 soil borings installed**
- **6 wells installed**
- **Samples collected**
  - 47 surface soil
  - 98 subsurface soil
  - 8 groundwater
- **Local Subcontractors**
  - GeoEnviroTech, Inc. (Driller)
    - *Guaynabo, Puerto Rico*
  - Pedro Davila Colon, Inc. (Surveyor)
    - *San Juan, Puerto Rico*

SWMU 74 - Airfield

Sampling subsurface soil

Drilling to sample subsurface soil



SWMU 74 – Airfield: Sampling Locations

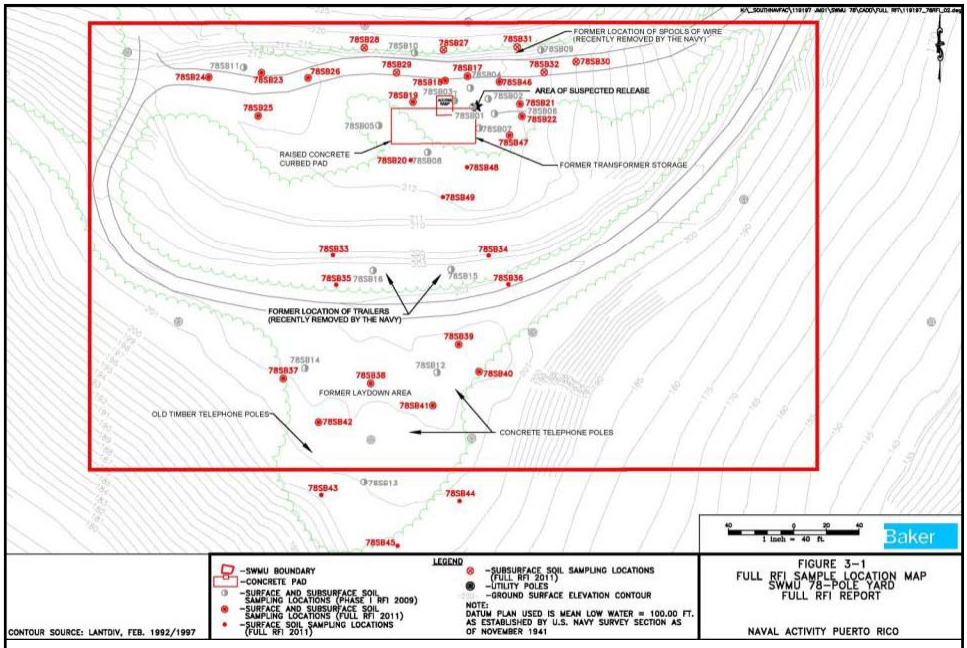
SWMU 78 – Pole Yard

- **Mobilization 4/25 – 4/26/11**
  - *3 days spent in the field*
  - *2 field personnel*
- **21 soil borings**
- **No wells were installed**
- **Samples collected**
  - 30 Surface Soil
  - 39 Subsurface Soil
- **Local Subcontractors**
  - GeoEnviroTech, Inc. (Driller)
    - *Guaynabo, Puerto Rico*
  - Pedro Davila Colon, Inc. (Surveyor)
    - *San Juan, Puerto Rico*

SWMU 78 – Pole Yard

Subsurface soil drilling

Subsurface soil samples



SWMU 78 – Pole Yard: Sampling Locations

SWMU 70 – Disposal Area Northwest of Landfill

- **Mobilization 5/15 – 6/10/11**
  - *12 days in the field*
  - *4 field personnel*
- **18 soil borings installed**
- **12 wells installed**
- **Samples collected**
  - 28 surface soil
  - 18 subsurface soil
  - 16 groundwater
  - 19 sediment
  - 19 surface water

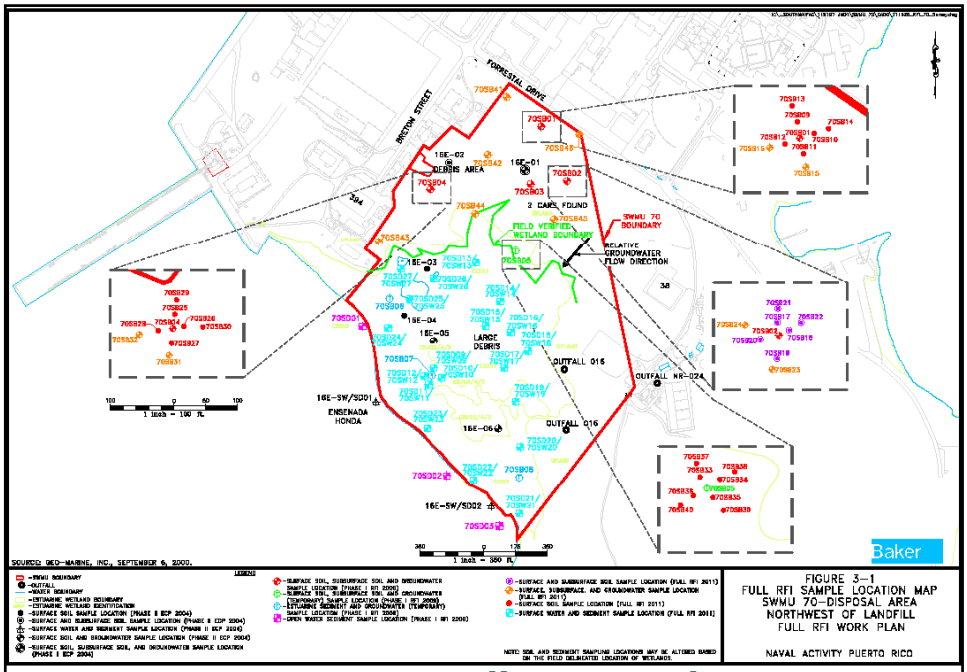
- **Local Subcontractors**
  - Right Way Environmental Contractors, Inc.
    - *Naranjito, Puerto Rico*
  - JFA Geological & Environmental Scientists (Driller)
    - *Aguadilla, Puerto Rico*
  - Pedro Davila Colon, Inc. (Surveyor)
    - *San Juan, Puerto Rico*

SMWU 70 – Disposal Area Northwest of Landfill

Surface water/ sediment sampling

Groundwater sampling

Subsurface soil drilling



SMWU 70 Sampling Locations

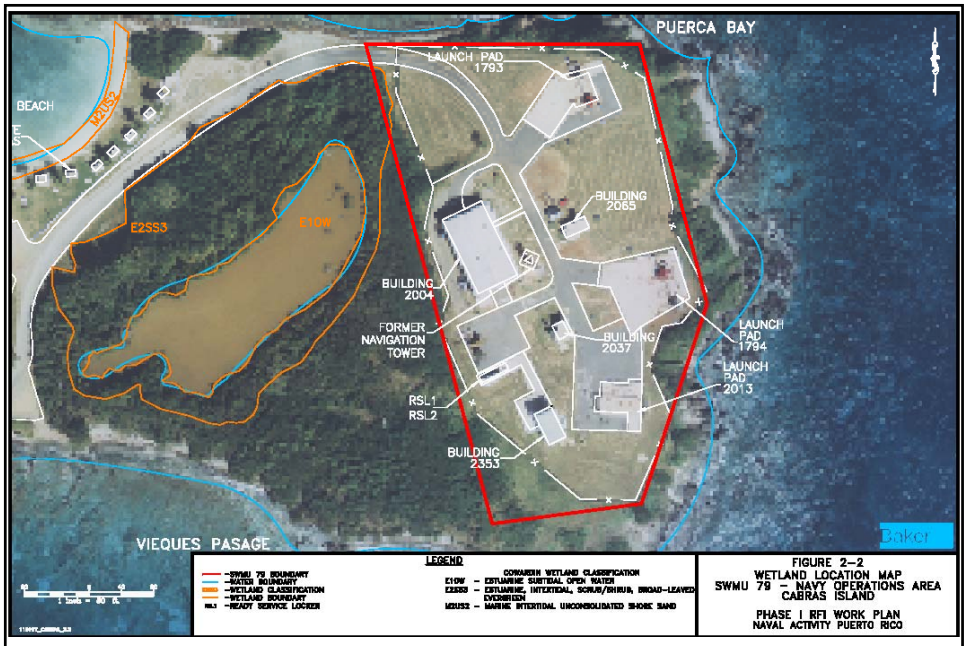
SWMU 79 – Navy Operations Area on Cabras Island

- **Mobilization 6/8 – 6/24/11**
  - *12 days in the field*
  - *2 field personnel*
- **102 soil borings installed**
- **6 wells installed**
- **Samples collected**
  - 112 surface soil
  - 102 subsurface soil
  - 6 groundwater
  - 10 sediment
- **Local Subcontractors**
  - GeoEnviroTech, Inc. (Driller)
    - *Guaynabo, Puerto Rico*

Constructing a concrete pad at a newly installed groundwater monitoring well

Air Rotary Rig installing groundwater monitoring wells

Direct Push Rig collecting soil samples



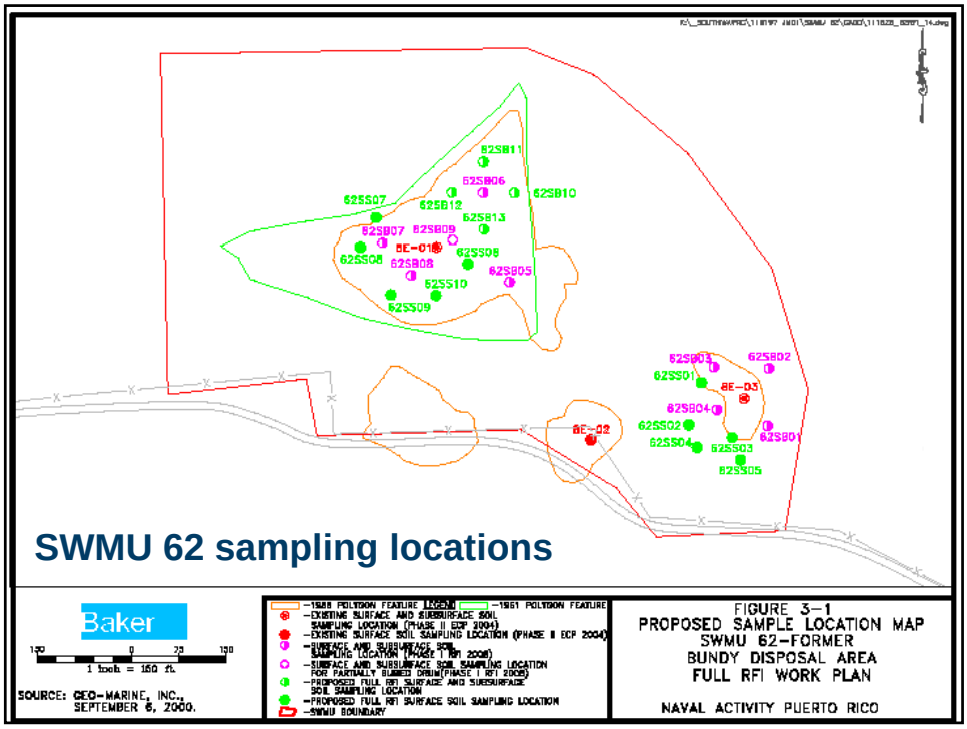
SWMU 79 – Navy Operations Area on Cabras Island

SWMU 62 – Former Bundy Disposal Area

- **Mobilization 6/20 – 6/24/11**
  - *3 days in the field*
  - *2 field personnel*
- **4 soil borings installed**
- **Samples collected**
  - 14 surface soil
  - 8 subsurface soil
- **Local Subcontractors**
  - Right Way Environmental Contractors, Inc.
    - *Naranjito, Puerto Rico*
  - JFA Geological & Environmental Scientists (Driller)
    - *Aguadilla, Puerto Rico*

Subsurface soil drilling

Sampling surface soil



Faster Regulatory Review = Faster Cleanup

- **Navy, EPA, and PR EQB have agreed to review and revise *working draft* documents**
  - Issues are resolved before the official documents are submitted for regulatory review
  - Fewer document submittals and shorter review periods
  - Final document review time is shortened considerably
- **Gaining regulator approvals more quickly leads to cleaning up the sites more quickly**

What's New

Mark Davidson

Navy - BRAC Program Management Office SE

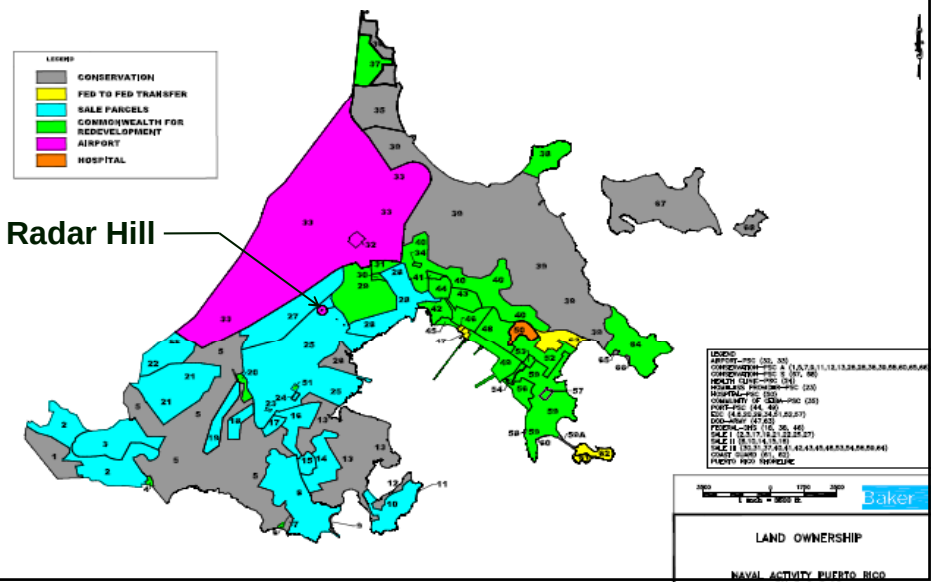
June 29, 2011

Property Transfer Update

Radar Hill Transferred

- 5 acres
- Transferred to Puerto Rico Ports Authority (airport)
- Transferred April 19, 2011
- To be used by airport as a future radar site

Location of Radar Hill



EDC Application Update

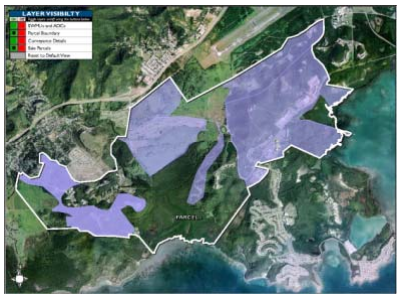
- **December 22, 2010: Navy received a Revised Economic Development Conveyance (EDC) Application from the Local Reuse Authority**
- **June 13, 2011: Navy and LRA entered into negotiations**

EDC Application Update

- **Approximately 1,368 acres to Commonwealth for economic development**
  - Commonwealth to receive Sale Parcel III, in addition to the Science Park, University, bowling alley, utilities, fire station, fuel tanks, and port area
- **Planning for property transfer to begin in the 3rd quarter of 2011**

Sale Parcels I and II

- **Navy is still planning to auction these two parcels**
- **3rd quarter 2011 - 1st quarter 2012**



Sale Parcel I

Sale Parcel II

Preserving "Indian Rock"

- **Located in Sale Parcel 1**
  - Community members came to the RAB with concerns about preserving the site
- **Eligible for listing on *National Register of Historic Places***
  - U.S. Department of Interior is responsible for the National Register

Preserving "Indian Rock"

- **Navy is consulting with the U.S. Department of Interior (DOI)**
- **Proposing to assign this site to DOI**
  - DOI would then transfer it to the Puerto Rico Department of Natural Resources
  - Puerto Rico Conservation Trust could manage the site for the public

Supplemental Environmental Assessment (SEA)

National Environmental Policy Act (NEPA)

- **NEPA is a Federal law enacted in 1970**
  - Applies to all federal agencies
  - Establishes policy to evaluate the "***environmental effects***" of proposed federal agency actions
    - *Closing of Roosevelt Roads is a federal action, so NEPA applies*

NEPA Background

- **"*Environmental effects*" includes the human and natural environment:**
  - Threatened and endangered species
  - Air and water quality
  - Noise, traffic, etc
  - Historic and cultural resource sites
- **NEPA does *not* apply to cleanup of soil and groundwater contamination**
  - Covered by RCRA and CERCLA

NEPA Background

- **Environmental Assessment (EA) or Environmental Impact Statement (EIS)**
  - Analyzes the effect of the proposed federal agency action on the human and natural environment
  - Typically starts with an EA (shorter document)
    - *If the EA concludes no significant environmental impact, prepare a Finding of No Significant Impact (FONSI)*
    - *If EA concludes there is a significant impact, then prepare an EIS (more detailed study)*

Intent of NEPA process

- **Aid decision-makers in balancing:**
  - The need to implement an action
  - Its expected impacts on the surrounding human and natural environment
- **Avoid, reduce or compensate for potentially significant impacts**
  - Consider alternative ways to meet the need for the action
    - *Potentially significant impacts **don't** necessarily stop an action*

Original Environmental Assessment (EA)

- **September 2003: Navy/Congress made decision to close Roosevelt Roads**
  - Federal action, NEPA applies
- **April 2007: original EA completed**
  - Based on original proposed reuse of the base (industrial)
  - Resulted in a finding of no significant impact (FONSI)

Supplemental EA

- **April 2010: Local Reuse Authority submits revised reuse plan**
  - Caribbean Riviera concept
- **Navy determines a Supplemental SEA is required**
  - To address the change in reuse for the 1,300 acres going to the Commonwealth
  - Caribbean Riviera concept

Supplemental EA Timeline

- **Jan 2011: EQB assigned as the Puerto Rico "cooperating agency"**
  - Responsible for coordinating NEPA reviews with other Puerto Rico agencies
- **Feb 2011: Navy submits "Scoping letter" to EQB**
  - Informed Commonwealth that Navy would prepare a Supplemental EA
    - *Due to the Reuse Plan change (Caribbean Riviera)*

Supplemental EA Timeline

- **23 May, 2011: Navy submits draft Supplemental EA to EQB for review & comment**
  - And other PR agencies
- **Navy submits draft Supplemental EA to federal agencies for review & comment**
- **Copies of SEA for public review**
  - Ceiba library
  - Carnegie Public Library (San Juan)

Supplemental EA Timeline

- **29-31 May 2011: Navy published a Notice of Availability in the *Puerto Rico Daily Sun***
  - Notifying public that Supplemental EA was available for public review
- **28 June 2011: Comments on draft Supplemental EA were due to Navy**
- **Final EA will be prepared after considering public and agency comments**

Questions? Comments?

Closing: next RAB meeting

- **Next RAB meeting date**
  - 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, RAB Community Co-Chair (787-235-1473)
  - At least 2 weeks before the meeting date
- **Thank you for participating!**

Questions between meetings

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