


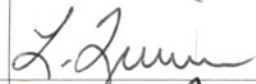
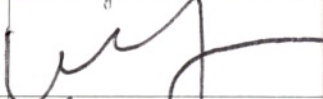
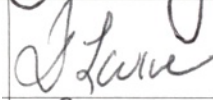



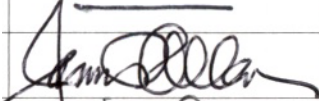
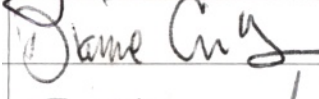
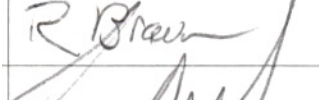
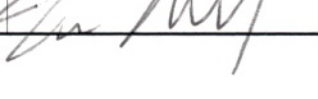

**U.S. Army Garrison Fort Monmouth  
Restoration Advisory Board (RAB)  
October 7, 2009 ~ 7:00 p.m.**

**AGENDA**

1. Call meeting to order.
2. Comments old business.
  - Approval of the July 9, 2009 Meeting Minutes.
3. Discuss the status of the Baseline Ecological Evaluation (BEE).
  - Check copy of BEE Work Plan comments received from NJDEP on September 1, 2009.
  - Shaw will performed a site visit and terrain walk on September 15, 2009
  - Shaw and Fort Monmouth are reviewing the state comments. Review will be completed by September 25, 2009.
4. Stream Bank Stabilization Project Update – Presentation by Princeton Hydro
  - M3 and M8 Stream Bank Stabilization complete.
  - As of September 16, 2009, M2 stabilization is approximately 80 % complete.
5. Discuss Underground Storage Tank (UST) and Unregulated Heating Oil Tank (UHOT) removals – Presented by Tecom-Vinnell Services
  - Parcel 51 – a total of 11 anomalies to excavate.
    - Five of the seven tanks removed were leakers. The areas were excavated until clean soil. The 5 areas were backfilled with clean soil.
    - Two sites did not contain tanks
    - The last two sites were investigated. Two new tanks were found.
6. Round table discussion.
7. Discuss 2010 meeting schedule. Gibbs Hall is now closed Monday through Wednesday. Suggest meeting on Thursdays with the following tentative dates:
  - Thursday, January 14, 2010
  - Thursday, April 8, 2010
  - Thursday, July 8, 2010
  - Thursday, October 7, 2010
8. Public comments/questions.
9. Next RAB meeting will be held (DATE ?) in Gibbs Hall at 7:00 pm.
10. Meeting adjourned.

# 2009 Fort Monmouth Restoration Advisory Board

Date: October 7, 2009

NAME	ORGANIZATION	ADDRESS	TELEPHONE	EMAIL	SIGNATURE
Col. Stephen Christian	U.S. Army Fort Monmouth	U.S. Army Fort Monmouth ATTN: IMNNE-MON-ZA Fort Monmouth, NJ 07703	W - 732-532-9504	<a href="mailto:stephen.christian@us.army.mil">stephen.christian@us.army.mil</a>	
Wanda Green	U.S. Army Fort Monmouth	Directorate of Public Works 173 Riverside Drive Fort Monmouth, NJ 07703	W - 732-532-8341	<a href="mailto:wanda.green1@us.army.mil">wanda.green1@us.army.mil</a>	
Joe Fallon	U.S. Army Fort Monmouth	Directorate of Public Works 173 Riverside Drive Fort Monmouth, NJ 07703	W - 732-532-6223	<a href="mailto:joseph.m.fallon@us.army.mil">joseph.m.fallon@us.army.mil</a>	
Larry Quinn	NJDEP Division of Publicly Funded Site Remediation	NJDEP Div. of Publicly Funded Site Remediation 401 E. State St., CN 413 Trenton, NJ 08625	W - 609-633-0766	<a href="mailto:larry.quinn@dep.state.nj.us">larry.quinn@dep.state.nj.us</a>	
William Simmons	Monmouth Co. Dept. of Health	Monmouth County DOH 3435 Hwy 9 Freehold, NJ 07728	732-431-7456	<a href="mailto:wsimmons@co.monmouth.nj.us">wsimmons@co.monmouth.nj.us</a>	
Dan Levine	Little Silver Business - Little Silver Community Hardware	44 Church St. Little Silver, NJ 07739	H- <del>Redacted - Privacy Act</del> W-732-747-2133 F-732-747-5420	<a href="mailto:hardwaredan@verizon.net">'hardwaredan@verizon.net'</a>	
Brain Charnick	Resident - Eatontown	<del>Redacted - Privacy Act</del>	H- <del>Redacted - Privacy Act</del> W- <del>Redacted - Privacy Information</del> C- <del>Redacted - Privacy Act</del>	<del>Redacted - Privacy Act</del>	
Edward J. Dlugosz	Resident - Eatontown		H- <del>Redacted - Privacy Act</del> W- <del>Redacted - Privacy Information</del>		
Frank Barricelli	Resident - Oceanport		H- <del>Redacted - Privacy Act</del> H- <del>Redacted - Privacy Act</del> W- <del>Redacted - Privacy Information</del>		
Jim Modlin	Resident - Oceanport		H- <del>Redacted - Privacy Act</del>		
James Allen	Resident - Tinton Falls		H- <del>Redacted - Privacy Act</del>		
Dianne M. Crilly	Resident - Shrewsbury		H- <del>Redacted - Privacy Act</del> H- <del>Redacted - Privacy Act</del> W- <del>Redacted - Privacy Information</del> C- <del>Redacted - Privacy Act</del>		
Rosemary Brewer	Resident - Little Silver				
Tim Rider	U.S. Army Fort Monmouth	Media Relations, Bldg 1207 Fort Monmouth, NJ 07703	W - 732-532-1409	<a href="mailto:timothy.rider@us.army.mil">timothy.rider@us.army.mil</a>	

**FORT MONMOUTH RESTORATION ADVISORY BOARD (RAB) MEETING**  
**October 7, 2009 ~ 7:00 PM**  
**SIGN-IN SHEET**

<u>PRINT NAME</u>	<u>ORGANIZATION</u>	<u>ADDRESS</u>	<u>TELEPHONE</u>	<u>EMAIL</u>
Joan Jacksm	US Army Env Command	APG - MD	410-436-0467	joan.f.jacks@ us.army.mil
MIKE DeNofa	Shrewsbury	Redacted - Privacy Act	Redacted - Privacy Act	Redacted - Privacy Act
Mark Gallagher	Princeton Hydro	1108 Old York Rd. suite 1 Princeton NJ 08551	908-237-5660	mgallagher@ princetonhydro.com
JACOB HELMINIAK	PRINCETON HYDRO	" "	" "	jhelminiak@ princetonhydro.com
Harold Horsony	TVS	FT Mon.	908 675 5104	Harold.Horsony@us.Army. mil
Kalynn Venoceli	FMERP	2-12 Canterbury Way Edenboro, NJ	908 955 5966	kalynn.venoceli@ fmerpa.state.nj.us
Diane Canterbury	FMERP	" "	" "	diane.canterbury@ fmerpa.state.nj.us
Jill Gwydir	Shrewsbury Environ. Comm			
Bob Hughes	Edenboro Environmental Comm.	Redacted - Privacy Act	Redacted - Privacy Act	
Tom MAHEED	Fmerpa.us	Redacted - Privacy Act		



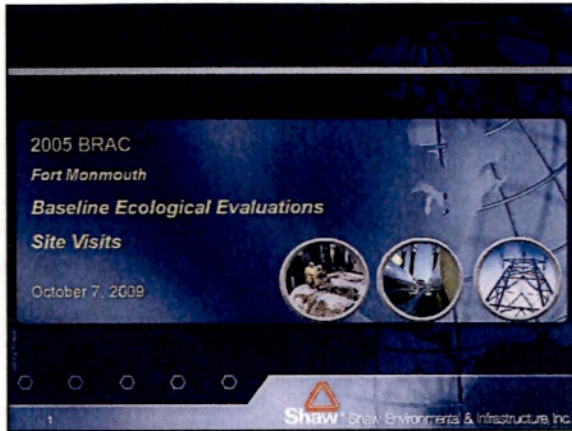
FORT MONMOUTH RESTORATION ADVISORY BOARD (RAB) MEETING

October 7, 2009 ~ 7:00 PM

REQUEST TO ASK QUESTIONS

PRINT NAME	ORGANIZATION	ADDRESS	TELEPHONE	EMAIL
TOM MAHEEDY	Emerga. us	Redacted - Privacy Act		
Dianry Cilly	RAD	Shrewsbury		
Heather Saffert	Clean Ocean Action	Redacted - Privacy Act	Redacted - Privacy Act	
Mary Kinslow	N/A	Redacted - Privacy Act		
				Please call if you have further questions

# 2005 BRAC Fort Monmouth Baseline Ecological Evaluations Site Visits



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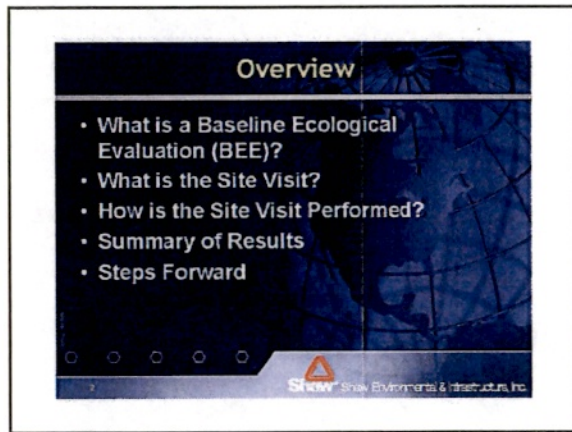
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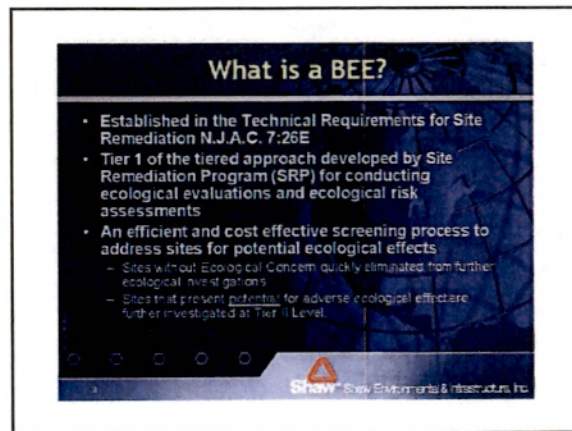
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2005 BRAC  
Fort Monmouth Baseline Ecological Evaluations  
Site Visits

**Basic Elements of the BEE**

- Examine the Site for Co-occurrence of
  - Contaminants of Potential Ecological Concern (COPECs)
  - Environmentally Sensitive Areas
  - Chemical Migration Pathways



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**Sources Used in BEE**

- Existing Site Documents
- Existing Analytical Data
- Qualitative Site Visit



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**BEE Report**

- Brief Report to Document Conditions
- Stand-Alone or Part of SI Report – Stand-Alone will be developed for Ft Monmouth
- Presents Decision Regarding the Need for Further Studies
  - Based on Technical Information and Best Professional Judgment



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# 2005 BRAC Fort Monmouth Baseline Ecological Evaluations Site Visits

### The BEE at Fort Monmouth

- 14 of 27 IRP Sites considered to require further evaluation through the BEE process
- Additionally, 8 sites identified through the Environmental Condition of Property (ECP) process considered to require further evaluation through the BEE



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### IRP Sites - CWA



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### IRP Sites - Main Post



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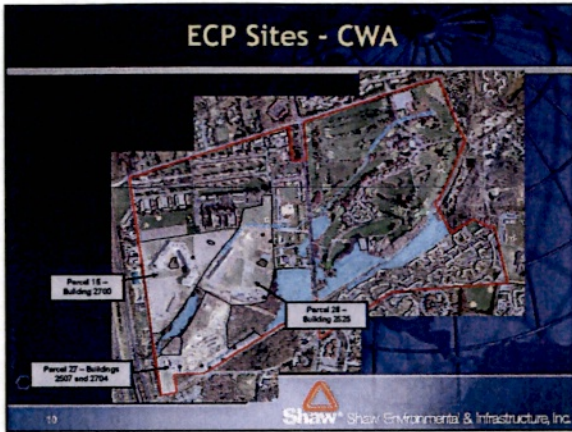
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# 2005 BRAC Fort Monmouth Baseline Ecological Evaluations Site Visits



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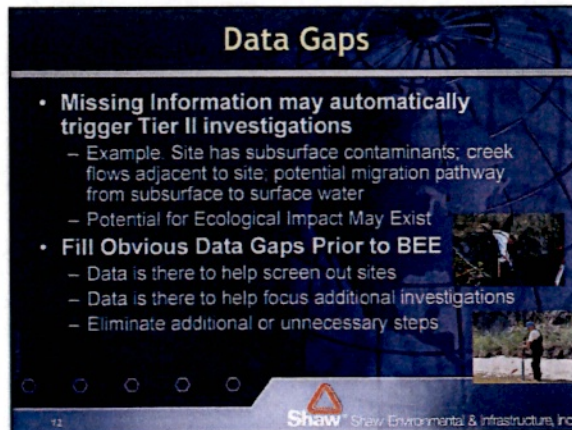
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2005 BRAC  
Fort Monmouth Baseline Ecological Evaluations  
Site Visits

**Steps for BEE Completion**

- Review for Data Gaps ✓
- Qualitative Site Visit ✓
- Sample to Fill Data Gaps
- Compile Tables of Analytical Data
  - By Medium and Chemical Fraction
  - Compare to Screening Values
- Prepare Appropriate Maps
  - Major Ecological Habitats
  - Land Use
- Prepare Report with Recommendations

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**Environmentally Sensitive Areas  
(Generic Examples)**

- Surface Waters
- Water Resources
- Bay Islands
- Beaches
- Dunes
- Wetlands and wetland transition areas
- Critical wildlife habitat
- Prime fishing areas
- Finfish migratory pathways
- Submerged vegetation habitat
- Shellfish waters
- Forest areas
- Habitat for Federal and State Endangered or Threatened Species
- Federal and State wilderness areas
- Wild and scenic river corridors

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**Environmentally Sensitive Areas**

- Identified Through
  - Site Visits
  - Reports
  - NJDEP Resources
- Report includes map indicating environmentally sensitive areas

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**2005 BRAC  
Fort Monmouth Baseline Ecological Evaluations  
Site Visits**

**Analytical Data**

- **Existing Data**
  - Quite Extensive for some sites in some media
    - e.g. quarterly groundwater samples over several years
  - Compare to screening levels
    - Screening levels recommended by NJDEP
    - Screening levels are conservative
    - For screening purposes only, not considered regulatory values or cleanup numbers
    - Weight-of-evidence approach



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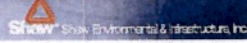
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**Migration Pathways**

- **Identified through**
  - Site Visit
  - Existing Reports
- **Documented within Report**



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**Report Results and Discussion**

- **Summarize results**
- **Interpret findings of the evaluation**
- **Present recommendations**
  - No further ecological evaluations required
  - Further ecological evaluation required (filling of data gaps, Tier II, etc.)



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# 2005 BRAC Fort Monmouth Baseline Ecological Evaluations Site Visits

**Site Visit**

- Review Reports
- Review NJDEP maps
- Visit Sites
- Observe Habitats
- Notice Environmentally Sensitive Areas
- Compare to Reports and NJDEP maps
- Observe potential migration pathways

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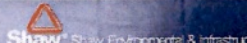
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**M-8, M-18, ECP 49 (Bldg 283)**

- Wetlands
- Adjacent to Parkers Creek



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**M-8, M-18, ECP 49 (Bldg 283)**

- Emergent Wetlands
- On M-18 Landfill adjacent to Parkers Creek
- Opposite side of Parkers Creek



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Fort Monmouth Baseline Ecological Evaluations  
Site Visits

**M-8, M-18, ECP 49 (Bldg 283)**

- Forested Wetlands
- Opposite side of Parkers Creek



Map showing M-8, M-18, and Bldg 283 Composite. Labels include: M-18 Former Training Area/Landfill (Parcel A0), Landfill M-8, and Bldg 283 Composite.

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**M-8, M-18, ECP 49 (Bldg 283)**

- Forested Areas
- Both Forested Upland and Forested Wetland
- Most of M-8 Landfill is Upland forested



Map showing M-8, M-18, and Bldg 283 Composite. Labels include: M-18 Former Training Area/Landfill (Parcel A0), Landfill M-8, and Bldg 283 Composite.

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**M-8 Landfill**

- Parkers Creek
- Stabilized Banks
- Emergent Wetland opposite (Phragmites)
- Access Road
- Forested Upland
- No surface erosion pathways evident



Photograph showing the M-8 Landfill area, including Parkers Creek, stabilized banks, emergent wetland (Phragmites), access road, forested upland, and no surface erosion pathways evident.

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Fort Monmouth Baseline Ecological Evaluations  
Site Visits

**M-8 Landfill**

- Forested Upland (Sweetgum, Red Cedar, Yellow Birch, Black Cherry, Black Locust, Red Oak)
- M-8 slopes towards Parkers Creek



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**M-18 Landfill**

- Areas of Maintained Lawns
- Emergent Wetlands
- Forested Wetlands
- Slopes towards Parkers Creek



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**M-18 Landfill**

- Emergent Wetlands



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Site Visits

**M-18 Landfill**

- Forested Wetlands on North and East portion of M-18



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**M-18 Landfill**

- Signs of Erosion
- Potential Migration Pathway



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**Parcel 49, Building 283 UST**

- Predominantly Pavement, Buildings, Maintained Lawns
- Creek at northern edge of Parcel



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Site Visits

Parcel 49

- Pavement and Buildings



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Parcel 49

- Building 283 UST
- Was located in courtyard of Building 283
- No direct pathways to sensitive areas



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Parcel 49

- Creek at north side of Parcel 49
- Tributary to Parkers Creek
- Emergent Wetlands
- Forested (Red Oak, White Oak, Black Locust, Black Gum)



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Fort Monmouth Baseline Ecological Evaluations  
Site Visits

**Parcels 15, 27, 28 & Landfill CW-3A**

- Wetlands

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**Parcels 15, 27, 28 & Landfill CW-3A**

- Emergent Wetlands
- None present within Parcels

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**Parcels 15, 27, 28 & Landfill CW-3A**

- Forested Wetland
- Near Landfill CW-3A  
– between 15 and 27

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Fort Monmouth Baseline Ecological Evaluations  
Site Visits

**Parcels 15, 27, 28 & Landfill CW-3A**

- Forested Areas
- Near CW-3A and between 15 and 27



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**Landfill CW-3A**

- Areas of maintained lawns
- Forested Areas (Black Walnut, Black Locust, Red Maple, American Beech, Chestnut Oak)



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**Landfill CW-3A**

- Shrewsbury Creek north of CW-3A
- Steep Slopes
- Low Flow
- Dominated by Poison Ivy, Virginia Creeper, little Wetland Vegetation



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Fort Monmouth Baseline Ecological Evaluations  
Site Visits

**Landfill CW-3A**

- Forested Areas
- Between Shrewsbury Creek and Maintained Lawns



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**Parcels 15 and 28**

- Buildings and Paved Areas
- Some Maintained Lawns
- Shrewsbury Creek runs between Parcels
- Well-vegetated narrow strip of Riparian Zone



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**Parcels 15 and 28**

- Shrewsbury Creek
- Steep Banks
- Well Vegetated Riparian Zone (Jewelweed, Poke Weed, Grape, Virginia Creeper, Poison Ivy)



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Fort Monmouth Baseline Ecological Evaluations  
Site Visits

**Parcel 28**

- Maintained Lawns
- Gentle Slope
- Low gradient Shrewsbury Creek
- Narrow Riparian Zone
- Small banks



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**Landfill M-14**

- Flat Terrain
- Mostly old field predominantly grasses with sparse forbs (milkweed, goldenrod)
- Forested area in west
- Husky Brook runs along south



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**Landfill M-14**

- Husky Brook
- Thin band of Riparian Zone
- Stabilized Banks
- Phragmites, Groundsel Bush, forbs, black cherry



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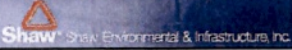

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2005 BRAC  
Fort Monmouth Baseline Ecological Evaluations  
Site Visits

### Landfill M-12

- Located opposite M-14 on South Side of Husky Brook
- Old Field Habitat – Forbs and Grasses
- Flat Terrain



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### Landfills M-4 and M-5

- Mostly Maintained Lawns with scattered Trees (Oak, Mulberry, Black Gum)
- Gently Sloping to west and Mill Creek
- Shrubs and riparian zone bordering Mill Creek



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### Landfills M-4 and M-5

- Grasses and Forbs
- Narrow Riparian Zone
- Mill Creek



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**2005 BRAC  
Fort Monmouth Baseline Ecological Evaluations  
Site Visits**

**Path Forward**

- BEE Work Plan Submitted
- Site Visits Completed
- Sampling of Sediments/Surface Waters/Soils TBD – Pending Funding
- Data Review and Screening Level Comparisons
- Report

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### Underground Heating Oil Tank (UHOT) removal update



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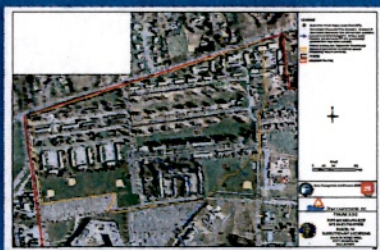
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### Parcel 14



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### Parcel 14

No Underground Heating Oil Tanks (UHOTS) were found. Pipes and debris were present. No sample was collected, the excavation was backfilled with clean fill.



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### Parcel 28



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### Summary

- In Parcel 28 Site P28-8 one 550-gallon UHOT was found, no product was present, no contamination present, post excavation samples came back below regulatory levels
- Building 556 (Field House)- Three suspected gasoline USTs. No UST were found. Soil and groundwater samples collected with a Geoprobe came back below regulatory levels

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- Parcel 51
- 11 suspected UHOTS
- 9 UHCTS removed
- 7 out of 9 were leakers



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**Site P51-1**  
No UHOT was found. Abandoned steel utility pipes were found in the excavation. No samples were collected. The excavation was backfilled with clean fill.



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**Site P51-5**  
1000-gallon UHOT  
PVC utility line was installed over the tank



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**Site P51-5**  
700 gallons of water was pumped from tank. No product was present.



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### Site P51-5

No pitting or holes were found in the tank



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### Site P51-5

No contaminated soil was found, post excavation samples were collected and came back below regulatory levels.



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### Site P51-15

No UHOT was found. A natural gas main and metallic dig tape were found in the excavation.



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### Site P51-27

1000-gallon UHOT. 275 gallons of oil and water were pumped from the tank.



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### Site P51-27

Some small holes and pitting were observed during the tank inspection.



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### Site P51-27

24 cubic yards of petroleum contaminated soil was excavated from the site and transported to the soil pad behind Building 166. Post excavation samples were collected and came back below regulatory levels. The site was backfilled with clean fill.



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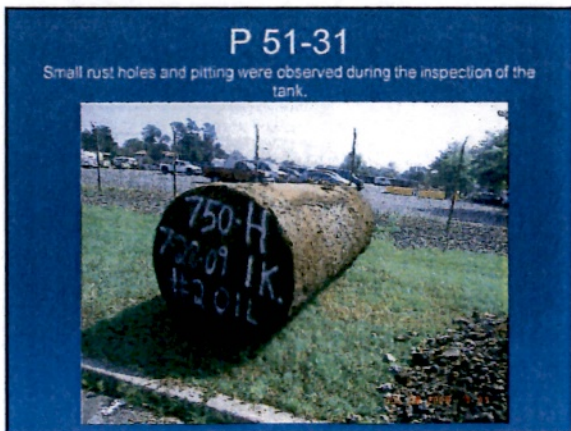
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### Site P 51-31

60 cubic yards of petroleum contaminated soil were excavated from the site. The excavation was sampled and the results came back below regulatory levels. The excavation was backfilled with clean fill.



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### Site P 51-38

1000-gallon UHOT. 320 gallons of oil and water was pumped out of the tank.



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### Site P 51-38

Some small rust holes were observed during the tank inspection.



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### Site P 51-38

42 cubic yards of petroleum contaminated soil was removed from the excavation. The excavation was sampled and backfilled with clean fill.



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### Site P 51-42

1000-gallon UHOT. Pumped out 300 gallons of oil and water from the tank.



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### Site P 51-42

The UHOT removed from excavation, inspected and labeled.



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### Site P 51-42

24 cubic yards of petroleum contaminated soil was removed from the excavation. The excavation was sampled and the results came back below regulatory limits. The excavation was backfilled with clean fill.



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### Site P51-47

1000-gallon UHOT. Pumped 250 gallons of oil and water out of the tank.



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### Site P 51-47

UHOT removed from excavation, inspected, and labeled. Large rust holes are present.



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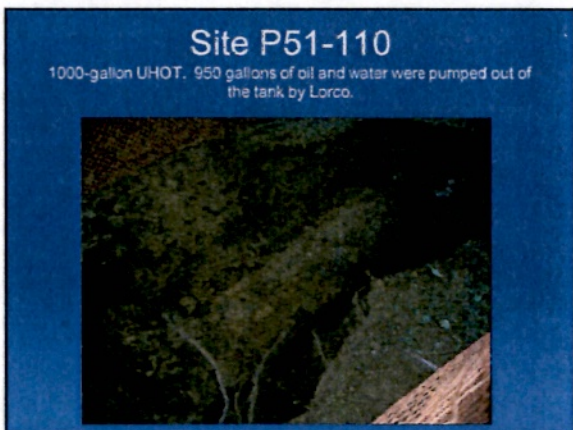
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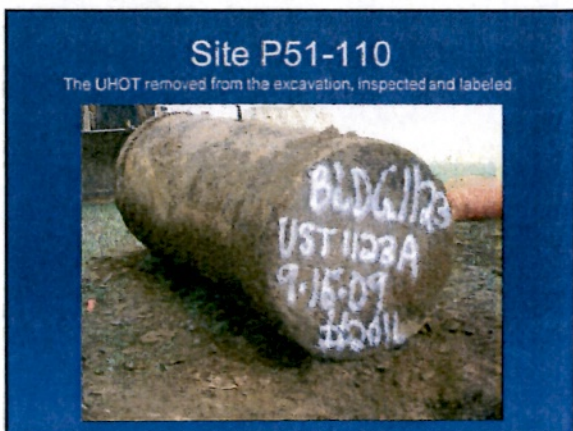
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### Site P 51-110

12 cubic yards of petroleum contaminated soil was excavated from the site. The post excavation samples came back below regulatory limits. The site was backfilled with clean fill.



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### Site P 51-111

1000-gallon UHOT. 120 gallons of oil and water was pumped out of the tank by Lorco.



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### Site P51-111

The UHOT was removed from the excavation, inspected and labeled.



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### Site P51-111

25 cubic yards of petroleum contaminated soil was excavated from the site. Post excavation sample results came back below regulatory levels. The site was back filled with clean fill.



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Currently paving Parcel 51 sites located in parking lots. Hole preparation.



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Installing asphalt.



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Rolling Asphalt



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Completed site.



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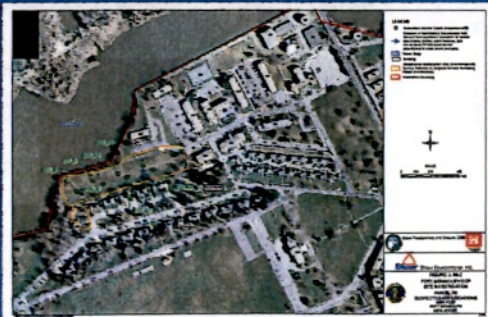
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Future UHOT Parcels  
Parcel 76, 7 suspected UHOTs



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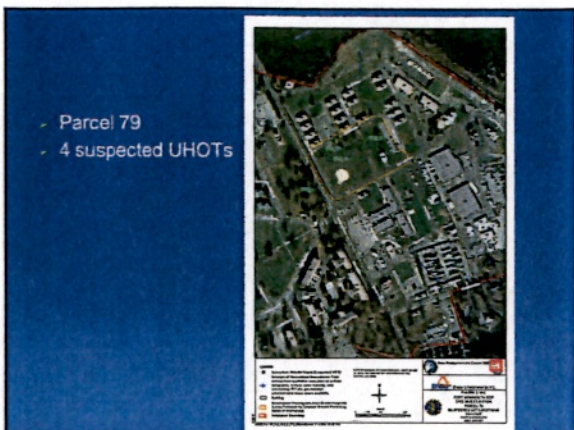
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