



DEPARTMENT OF THE NAVY
BASE REALIGNMENT AND CLOSURE
PROGRAM MANAGEMENT OFFICE, NORTHEAST
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PHILADELPHIA, PA 19112-1303

5090
BPMO NE/TB
Ser 09-087
February 2, 2009

Mr. Michael J. Daly
Remedial Project Manager
Federal Facilities Superfund Section
U.S. Environmental Protection Agency (EPA)
1 Congress Street, Suite 1100 (HBT)
Boston, MA 02114-2023

Ms. Claudia Sait
Remedial Project Manager
Maine Department of Environmental Protection (MEDEP)
Bureau of Remediation and Waste Management
17 State House Station
Augusta, ME 04333-0017

Dear Mr. Daly and Ms. Sait:

Enclosed you will find the Final December 2008 Restoration Advisory Board (RAB) Meeting Notes, Naval Air Station (NAS) Brunswick, Maine. These notes are provided for your use/reference.

If you have any questions or comments, please contact the Navy's Remedial Project Manager, Todd Bober at (215) 897-4911.

Sincerely,

A handwritten signature in cursive script that reads "Paul F. Burgio".

Paul F. Burgio
BRAC Environmental Coordinator
By direction of BRAC PMO

Enclosure:
Final December 2008 RAB Meeting Notes, NAS Brunswick, Maine

Copy to:

MEDEP (C. Evans)

Gannet-Fleming (D. McTigue)

NASB (L. Joy, M. Fagan, J. James)

Lepage Environmental (C. Lepage)

NAVFAC MIDLANT (T. Bober)

NAVFAC ATLANTIC (J. Wright, B. Capito)

TtNUS (L. Klink, C. Race, J. Orient)

ECC (A. Easterday, G. Calderone, C. Guido, R. Phinney)

Curtis Memorial Library (J. Fullerton)

Copy to: (w/o encl)

BRAC PMO NE (P. Burgio)

NAVFAC ATLANTIC (D. Barclift)

BACSE (E. Benedikt, C. Warren)

CO NASB (CAPT Fitzgerald)

RAB Brunswick Representative (S. Johnson)

RAB Harpswell Representative (D. Chipman)

RAB Topsham Representative (S. Libby)

MRRA (V. Boundy)

**Agenda - Restoration Advisory Board (RAB) Meeting
Naval Air Station Brunswick, Maine
Wednesday, 3 December 2008
Parkwood Inn
7:00 to 9:00 pm**

7:00 – 7:15 Introductions

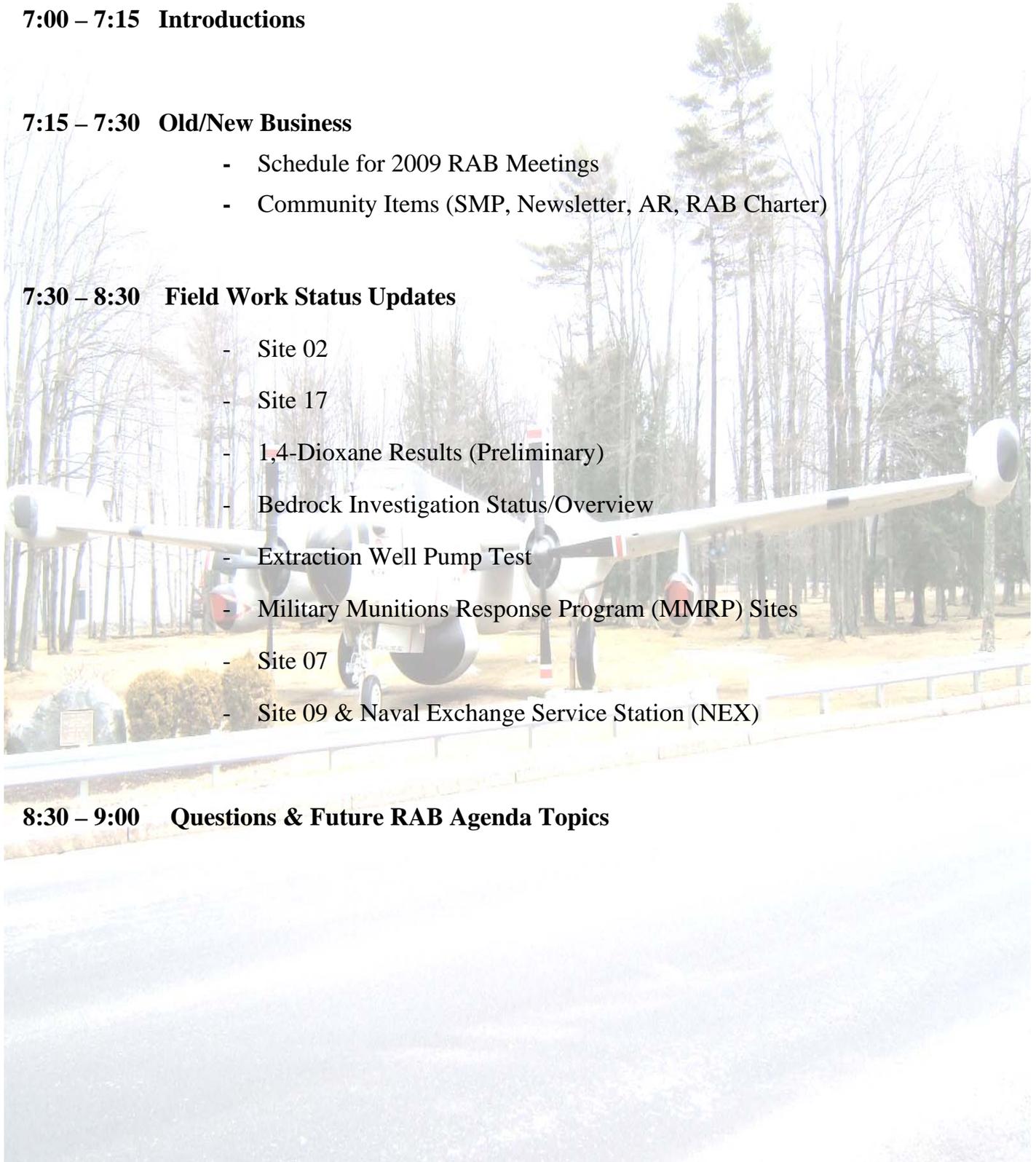
7:15 – 7:30 Old/New Business

- Schedule for 2009 RAB Meetings
- Community Items (SMP, Newsletter, AR, RAB Charter)

7:30 – 8:30 Field Work Status Updates

- Site 02
- Site 17
- 1,4-Dioxane Results (Preliminary)
- Bedrock Investigation Status/Overview
- Extraction Well Pump Test
- Military Munitions Response Program (MMRP) Sites
- Site 07
- Site 09 & Naval Exchange Service Station (NEX)

8:30 – 9:00 Questions & Future RAB Agenda Topics



**RESTORATION ADVISORY BOARD MEETING
NAVAL AIR STATION BRUNSWICK, MAINE
PARKWOOD INN
DECEMBER 3, 2008
MEETING NOTES**

MEETING ATTENDEES

Todd Bober, Remedial Project Manager	U.S. Navy, Remedial Project Manager
Paul Burgio, BRAC Environ. Coor.	U.S. Navy, BRAC/PMO
Jen Wright, Biologist	U.S. Navy
Marty McMahon	NAS Brunswick, BRAC
Lisa Joy, Environmental Director	NAS Brunswick, Environmental Department
Michael Fagan, Restoration Program Coor.	NAS Brunswick, Environmental Department
Claudia Sait, Remedial Project Manager	Maine Department of Environmental Protection
Ted Wolfe	Maine Department of Environmental Protection
Mike Daly, Remedial Project Manager	U.S. Environmental Protection Agency
Al Easterday, Sr. Project Manager	ECC
Gina Calderone, Project Manager	ECC
Doug Heely	Environmental Strategies & Mgt.
Carol Warren	Brunswick Local Redevelopment Authority
Victoria Boundy	Mid-Coast Regional Redevelopment Authority
David Chipman	Town of Harpswell, Maine RAB Member
Scott Libby	Town of Topsham, Maine RAB Member
Linda Klink	TtNUS
Jeff Orient	TtNUS
Chuck Race	TtNUS
Rachel Ganong	Times Record
Leighton Cooney	Governor's Office
Carolyn Lepage	Lepage Environmental. Services
Suzanne Johnson, RAB Co-Chair	BACSE and RAB co-chair
Ed Benedikt	Brunswick Area Citizens for a Safe Environment
Captain Will Fitzgerald, RAB Co-Chair	Commanding Officer, NASB

1. INTRODUCTIONS

Capt. Fitzgerald and Suzanne Johnson opened the meeting at 7:00 p.m., and said that RAB (Restoration Advisory Board) Co-chairs would open future meetings. Captain Fitzgerald mentioned that there has been a flurry of communication lately, based on feedback from the last meeting. He encouraged that anyone with questions or concerns should contact him directly.

Paul Burgio welcomed everyone, and mentioned that many people in the audience have been attending technical meetings over the past two days. Paul said that most everyone knew each other and that formal introductions were not needed for tonight's meeting.

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Paul introduced Jeff Orient with TtNUS (Tetra Tech NUS). Jeff is the overall coordinator for work that TTNUS is doing on the base.

2. OLD/NEW BUSINESS

- Schedule for 2009 RAB Meetings

RAB meetings are scheduled for February, May, August and November of next year. This is a shift forward from last year to help Todd with his schedule. There have been conflicts in the past with Todd's budget meetings and the RAB meetings. No one in the audience objected to this.

The precise dates have not been determined yet, but will likely be the first Wednesday of the month. A few members of the audience asked to consider alternating first and second Wednesdays due to other conflicts that they have.

- Community Items

The Site Management Plan (SMP) should be available for review by the end of this week. It is currently posted on the website. Paul said that a new website is being set up to post all of the documents that the Navy and regulators are working on, including comments and response to comments. Paul is hoping that Carolyn Lepage will continue with her role as technical reviewer and will be the point contact to submit comments on behalf of the public. Carol Warren mentioned that Carolyn is associated with BACSE (Brunswick Area Citizens for a Safe Environment), and does not represent the entire community.

Ed Benedikt said that documents should also go to the public library. Paul said that copies of all final documents will be at the library (for clarification: there will be hard copies of the most recent documents and older items on CD's at the second floor reference desk). Suzanne Johnson said that anyone can have access to the documents via the website. She is not anticipating extensive comments from the community. Paul is confident that the website will be in place by January.

The Fall 2008 Newsletter is available in the back. John James has already circulated copies of this newsletter at various locations around town.

Paul stated that the Administration Record (AR) should be updated soon. All of the records were recently removed by Norfolk Navy personnel for scanning into the master electronic archival system; however everything should be back in place by January.

Carol Warren gave an update on the RAB Charter. These are the bylaws of the group, and specify what the operating procedures are. The RAB Co-chairs will sign it, along with the regulators and select community members. The final, signed document will be attached to these meeting minutes.

Vicky Boundy announced that the Midcoast Regional Redevelopment Authority (MRRA) will host an open house on January 22, 2009 at the new high school. There will be a presentation by MRRA's director, and MRRA staff will be on hand to answer questions about the base redevelopment.

Capt. Fitzgerald announced that the Military-Community Council will also host an update session to the public on December 17, 2008 at the high school. The session will include an update on all of the Base Realignment and Closure (BRAC) activities, and a representative of MRRRA will also attend. Capt. Fitzgerald said that he is still working on an agenda for this event.

3. FIELD WORK STATUS UPDATES

Todd Bober reviewed the field schedule for NASB (Naval Air Station Brunswick). Some of the work is completed or on-going, while other tasks are scheduled for the near future. Additional details on the activities at the various sites are provided below.

- Site 2

TtNUS completed a significant field effort this year at Site 2. Much of this investigation is complete, although additional tasks are scheduled for the coming months. The work completed this fall included a geophysical survey, excavation of 11 test pits, completion of soil borings and monitoring wells, and soil and groundwater sample collection. Over the next few months, additional work will include surveying, data validation and report submission. The need for additional monitoring wells or soil borings will also be evaluated in the coming months.

Chuck Race of TtNUS explained what a geophysical survey is. An instrument is used in the field that sends electrical current into the ground. This current is able to detect metal objects, and a signal is sent back to the operator. This information is used to direct additional investigations, such as test pits and/or monitoring wells.

Todd showed a map of the study area, and he briefly explained the history of Site 2. The Long-Term Monitoring Program (LTMP), which includes monitoring wells north of the Site 2 landfill, has shown elevated metals in groundwater. This has prompted these additional investigations to find the source of these metals. This investigation this year did not indicate the existence of a large landfill, however, some ash was found in the soil. Samples were taken during the investigation, and the group is waiting on results. The data will be evaluated, and the group will then determine the next steps.

- Site 17

Site 17 was associated with a former pesticide shop. The building was removed in 1990, and a soil removal action was completed. This project is a follow-up to see what concentrations of pesticides remain in the soil and what risk they might pose. TtNUS completed soil borings at 45 locations, and collected soil and groundwater samples for laboratory analysis. A 1 to 1.5 foot thick layer of black material was found at 4 to 6 feet below ground, and elevated measurements of volatile organic compounds (VOCs) were observed with field instruments. The laboratory data are currently being evaluated. Following that, TtNUS will submit a focused investigation report, and will also work on a remedial action plan. The group is working under an aggressive schedule going into next year.

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Todd showed a map of Site 17, and mentioned that it is a very small area. The investigation that TtNUS did was focused on the north side of Avenue B. ECC also did work in Site 17, on the south side of Avenue B to define the extent of impacted soil that was excavated and buried south of Avenue B many years ago.

Al Easterday of ECC discussed the Site 17 area south of Avenue B. They completed three test pits to collect soil samples to define the extent of the impacted soil that was previously excavated and reburied. TtNUS also completed soil borings south of Avenue B as part of their work. The combined data does show the extent of impacted soil, which is estimated to be 27 cubic yards. ECC is proposing to collect additional soil samples two feet around the suspected burial area to be sure the soil is fully delineated. The total volume of soil that will be excavated will probably be 54 cubic yards, to include this two foot wide area. ECC is currently soliciting bids from excavation contractors for the removal and disposal of this material.

Ed Benedikt asked about the yellow shading on the map that was presented. Al said that the yellow area shows the extent of the impacted soil. The excavation will go two feet beyond that yellow area.

- 1,4-Dioxane Investigation, and Bedrock Investigation Status/Overview

Chuck Race discussed the 1,4-dioxane investigation that TtNUS is performing. He presented a map of the area, showing the study area within the southern portion of the Eastern Plume. In August, the Environmental Protection Agency (EPA) and Department of Environmental Protection (DEP) collected pore water samples, and TtNUS used these data to prepare a Sampling and Analysis Plan (SAP) for a direct-push investigation. They also recently installed new overburden and bedrock monitoring wells at three locations. The bedrock investigation included use of geophysics in the upper 50 feet of rock to identify water bearing fractures. The purpose of this work was to better define water bearing fractures in bedrock, and to better understand groundwater flow between bedrock and overburden.

Also this fall, TtNUS installed temporary wells to collect groundwater samples from discrete zones, and to perform electrical conductivity profiling. These data will help to determine locations for permanent wells, which are scheduled for next spring. A draft report of the 1,4-dioxane study is expected by September 2008.

Chuck presented pictures of the track-mounted direct-push rig, and explained the electrical conductivity profiling. This process collects real time data to characterize stratigraphy and to identify discrete zones for collection of groundwater samples.

- Extraction Well Pump Test

Al Easterday discussed the results of the recently completed pump test of extraction well EW-5B. The test was completed in two phases. First, a “step test” was completed to determine the optimal, sustainable pumping rate. The step test pump rates ranged from 5 to 16 gallons per minute (gpm), and the water table response was monitored in near by wells. This test indicated that a rate of 12.5 gpm could be sustained. The next phase of the test was a 72-hour pump test, which was run at a pumping rate of 12.5 gpm. This test actually ran for 71.5 hours, at which point the storage tanks

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for the water became full. The water in these tanks was disposed by Clean Harbors, and the tanks are now off-site. ECC also collected water samples before and during the pump test for VOC and 1,4-dioxane analysis.

Al said that the next steps in this process are to review the analytical data, and prepare a summary report. ECC will also decide on the optimal route for the discharge line from this well to the treatment plant. This line will either run directly to the plant, or it will run to well EW-5 and merge with that well's discharge line.

- Military Munitions Response Program (MMRP)

Linda Klink of TtNUS gave a status update of the Munitions Response Program (MRP). At NASB, the MRP includes six munitions areas. Tonight's presentation will focus on the investigation results for the three Munitions and Explosives of Concern (MEC) sites: Site 12, the Former Munitions Bunker West, and the Quarry.

Linda said that the initial field work for these MEC sites is complete, and a draft report is within TtNUS undergoing internal review. More work is needed at all three sites, which could include further testing and/or clearing.

At all three sites, a UXO (unexploded ordnance) sweep was conducted, whereby munitions specialists used metal detectors to look for surface and shallow metal objects, followed by brush/grass clearing. Once the areas were deemed safe, a geophysical survey was conducted.

At Site 12, the team found smoke grenades and a rocket motor during the UXO sweep. The geophysical survey found numerous anomalies, consistent with the history of this Site. There were 161 anomalies detected, which extended out further than they believed they would.

The Former Munitions Bunker West is a grassy/wooded area of about 29 acres. This area was formerly used by the Marines. No surface metal was found during the UXO sweep. Numerous low intensity anomalies were detected, which could be background (i.e., ferrous rocks). Linda said that she does not anticipate any large problems in this area.

The Quarry site is complicated because there was also waste dumping at this Site. Explosives Ordnance Disposal (EOD) type operations may have been conducted here, the team is still researching this. The UXO sweep found a rocket motor, which was unexpected here. This slowed the process down and required more extensive sweep procedures. During the geophysics, numerous anomalies were found, which may be indicative of trash or MEC. Linda showed a picture of the rocket motor, which was well camouflaged against the ground.

Caroline Lepage asked if petroleum contaminated soils were found. Linda said yes, that this site was formerly used for land farming of petroleum-impacted soil. This may complicate this project and require more extensive chemical testing.

Linda showed a map of the geophysical anomalies, showing a high concentration of red/pink along the southern study area. These anomalies need to be investigated thoroughly for safety reasons before any intrusive work is done.

- Site 7

Todd spoke about Site 7, which formerly contained acid/caustic disposal pits. Removal actions were previously completed at Site 7; however, elevated metals are still present in groundwater samples. The Navy is planning on conducting additional soil borings in a grid pattern to see if any source material remains. Todd is hoping to get this work done this year or in the spring of 2009.

- Site 9

The soil/ash removal action has been completed, and the area is backfilled. The disturbed area was hydroseeded, although it has not sprouted yet. Next week ECC is planning on conducted a direct-push program to the north of the excavation area, and will also replace monitoring wells destroyed during the excavation. The site closure report is being drafted, although Todd is not sure when it will be out.

Al Easterday discussed the direct-push program to the north of the excavation. This is being done to delineate ash that was observed in the northern extent of the excavation. The work plan calls for between 15 and 20 soil borings. A similar work plan was completed to the south of the excavation.

Captain Fitzgerald asked why the ash was not completely delineated before the excavation started. Al said that the original borings to define the extent were limited by barracks (now removed) and parking areas. Because of these obstacles, this work may not have accurately delineated the extent of the ash. Claudia Sait said that the team reviewed some of the original information, and concluded that the initial borings may have been too shallow. All of the borings now extend to the clay. Also, many of the initial boring stopped at the first ash layer. Based on observations during the excavation, there are multiple layers of ash in some areas.

Lisa Joy said that the open excavation showed a good cross section of the soil, and indicated that the old brook did influence the distribution of ash. In the 1940's when the incinerator was operational, ash was disposed along the banks of the brook before Neptune Drive was built.

Capt. Fitzgerald said that this project is a good success story, and would like to see the area returned to productive use, such as a sports field.

Suzanne Johnson asked about the ash under Neptune Drive that was recently found during ECC's direct-push investigation. Todd said that the group will soon be discussing the next steps, but that they want to complete the investigation to the north first.

Ed Benedikt asked about the boundaries for Site 9 (shown on a color map), and whether those lines were part of the (AR). Todd said that the removal action report will be in the AR, along with reports for the south and north direct-push investigations. The green lines shown on the map are the limits of the recent excavation completed by the removal contractor. Their work included post excavation soil samples, which showed residual contamination along the north and south walls. This has prompted the south and north direct-push investigations. The south investigation included testing south of Neptune drive, up to the outfall.

Claudia Sait asked about data gaps associated with the southern direct-push investigation. Al Easterday said that there is one additional area south of Neptune Drive that will be addressed next week during the north investigation.

Carolyn Lepage asked about post excavation samples, and what effect residual contamination may have on future development. Clean fill was used throughout the excavation, which extended to the clay. There are still groundwater contamination issues to address, and an Institutional Control is still in place for this area.

Al said that the Site 9 well replacement will include 7 new wells. The wells will include two couplets and three single wells. This work is scheduled for Dec 8 to 12th 2008.

- Navel Exchange Service Station (NEX)

Todd summarized the recent activities for this project. Over the summer, the Navy awarded a contract to AGVIQ/CH2MHill for clean up of NEX. The team met with DEP in September 2008 to discuss a sampling program to completely delineate the gasoline impacted soil. The sampling and analysis plan was quickly approved.

The field work was completed in November 2008, and included drilling 54 borings, and installation of five new wells. Ninety five soil samples were collected and analyzed with a mobile laboratory. Twenty four of these samples were sent to a fixed laboratory. The team is currently reviewing the data, and will prepare a technical memo for the cleanup. Todd anticipates that the soil removal will commence next summer. Todd said the DEP did a great job of approving the sampling program quickly.

Ed Benedikt asked about the berm around the tanks and whether it would stop a new spill from reaching Mere Brook. After this cleanup program, the station will be removed and will not be replaced.

- Picnic Pond Sampling Event

Picnic Pond is a Y-shaped pond located in the east/central portion of the base. It is about 12 feet deep, and is part of the storm water system for NASB. Historical records suggested that sediments could be impacted with poly-aromatic hydrocarbons (PAH), which are hydrocarbon compounds related to incomplete combustion. [A member of the audience said that PAH is not on the acronym list.] Because of the historical sampling, the team thought that there was a potential issue that needed further testing. TtNUS performed a site visit to see if sediment samples could be collected from the pond, and the team met quickly to decide on a sampling approach. In November 2008, core samples of sediment were collected for metals and organics analysis. These data will be compared to typical benchmark sediment standards.

Lisa Joy further explained how this project got started. She said that a few sediment samples were taken many years ago related to the storm water program. These data were recently shared with the BRAC group, which has prompted the team to see if any other actions are needed. TtNUS's

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contract requires them to review potential areas of concern, and to see if any benchmark standards are exceeded.

Carolyn Lepage asked what would have happened to the original sediment data if the base wasn't going through BRAC? Lisa Joy said she was not sure; however the Navy's objective is to be very proactive now so that any potential issues are dealt with.

Ed Benedikt asked if these contaminants would be from storm water. Yes, most of the base storm water flows through this pond. Todd thought that this issue was first looked at in the 1990's and was deemed at that time to not be an issue. This was part of their storm water program at the time, and not part of CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) actions.

Capt Fitzgerald said he was encouraged that a potential issue was found and was further reviewed. He said that part of the BRAC process is to look at the entire base prior to closure. Lisa confirmed that this is the process they are undertaking. She said there is much history to review and sometimes additional things are found.

Carolyn asked for clarification on the location of this pond. Todd presented a site map showing Picnic Pond east of the Eastern Plume.

Scott Libby asked about the sampling requirements of the NPDES (National Pollutant Discharge Elimination System) program for the base. Claudia said the NPDES program requires sampling for compounds that may be currently discharging in the storm water, and may not be related to historical contamination on site.

Todd reiterated that the point of this work was to see if there is a potential issue here or not. The sediment sampling data will be available in a few weeks, and a summary report will be prepared.

4. QUESTIONS AND FUTURE RAB AGENDA TOPICS

The next RAB meeting will be February 4, 2009. Ed Benedikt asked if the meeting could be switched to the second Wednesday. Todd said that this next meeting needs to be on the 4th, but that future dates have not been determined yet and could accommodate this request.

Carol Warren said that the group wants to discuss the background study and the impact on cleanup levels.

Capt Fitzgerald asked about completion dates for the base cleanup. Todd discussed some of the ongoing sites - some have RODs (Record of Decision), some are new sites coming out of the BRAC process. It is difficult to have specific dates for the base cleanup as a whole.

Todd said that March 2009 is when his budgets are due. He suggested that February 2009 would be a great time to set priorities for the rest of the year.

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Suzanne Johnson asked about Site 7, and whether additional testing would be done surrounding the parcel before it is transferred. Paul Burgio said that transfers would be parcel specific, and that all of the money for this entire project comes from BRAC. His organization provides funds for cleanup, and the Navy will receive the funding they need to perform cleanup, although maybe not as quickly as they want, but they will get it. Ed Benedikt said there was an initial estimate of cleanup, which has likely been surpassed. He asked is there was a new estimate of total cleanup costs. Paul said this is very difficult to calculate because new issues come up.

A number of people in the audience were interested in knowing the total cost of cleanup. Paul said is it likely in the 10's of millions of dollars.

Paul reviewed the URL addresses for the websites, and said there will be reminder emails so that everyone knows when something new is downloaded.

Public website:

<http://nasbrunswick.navy-env.com>

ECC download site:

<ftp://ftp.ecc.net>

Capt. Fitzgerald mentioned the discussion from the last meeting about trust. He believes there is great work going on and that there are good intensions. He wants to know if there are any further communication or trust problems.

Claudia Sait asked about Capt. Fitzgerald's wife – at the last meeting, she had questions about Site 7 and potential safety concerns for her children. Capt. Fitzgerald said that yes, she was satisfied with the answers she received to her questions.

Meeting adjourned at 9:00

**ATTACHMENT A:
SIGN-IN SHEETS**

Sign-In Sheet
Restoration Advisory Board Meeting
Naval Air Station
Brunswick, Maine
Parkwood Inn
Wednesday, December 3, 2008
7:00 PM - 9:00 PM

Name	Affiliation	Contact Information
LISA JOY	NASB ENV	lisa.joy@navy.mil
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