

**MEETING SUMMARY, DUPONT CHAMBERS WORKS FUSRAP SITE
RESTORATION ADVISORY BOARD MEETING (RAB)
PENNSVILLE, NEW JERSEY**

To: Interested Parties
 From: George Bock, U.S. Army Corps of Engineers, Philadelphia District -Project Manager & Sandra Chaloux, CEC, Inc. - RAB Facilitator
 Re: Meeting Summary of April 9, 2002 RAB Meeting

<p>RAB Members Present George Bock Frank Faranca Andrew Park Janet Agnew Robert Bender Glen Donelson Francis Faunt Paul Morris Stephen Rogers James Warner Mel Beals</p> <p>RAB Members Absent John Clemente Catherine Dare Armando Fernandez Douglass Fogg Jim Gant Ron Giordano James Kates</p> <p>Facilitator Present Sandra Chaloux</p> <p>Guests Present Bernard Sennstrom Anne Pavelka Teruo Sugihara Jenny Goodin Ed Truskowski Drew Rak Karl Ford David Pohl Robert Schoenfelder Al Boettler</p>	<p>Affiliation U.S. Army Corps of Engineers, Govt. Co-Chair NJ Department of Environmental Protection EPA Region II Community Penns Grove Central Public School District Pennsville School District Community Co-Chair Mayor, Penns Grove DuPont Chambers Works Salem County Representative Pennsville Township</p> <p>Community Community, Alternate Co-Chair American Nuclear Society/Community Community Community Community Carneys Point Representative</p> <p>CEC, Inc.(RAB Facilitator)</p> <p>Pennsville Township NJ Department of Environmental Protection U.S. Army Corps of Engineers, Baltimore U.S. Army Corps of Engineers, Baltimore Weston Weston DuPont Chambers Works</p>
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7:05 p.m. Welcome and Introductions (*Sandra Chaloux, RAB Facilitator*)
 Sandra began the meeting by welcoming meeting participants. Meeting participants then introduced themselves. Sandra noted that this was the sixth meeting of the RAB. The first meeting was held in March 2000. One correction was noted for the meeting summary from last time –Glen Donelson’s affiliation should be Pennsville School District.

7:10 p.m. Army Corps Update (*George Bock, U.S. Army Corps of Engineers*)
 George began by saying the most important agenda item for the meeting was to talk about the work plan for Operable Unit 1 (former Building 845 & F Corral areas). He

began his presentation with a brief review of the Manhattan Engineer District (MED) history. Uranium processing began at the DuPont Chambers Works site in 1942. MED contracted with DuPont to develop a process for converting uranium oxide to uranium tetrafluoride and small quantities of uranium metal. DuPont conducted the following production processes for MED at Chambers Works: ore concentrate refining, brown oxide, recovery, green salt, Hexafluoride, and metal. In 1946, all MED activities transferred to the Atomic Energy Commission (AEC). In 1947, DuPont continued research for AEC. In 1948-1949, AEC conducted radiological surveys and decontaminated many of the building surfaces on site. AEC released the buildings back to DuPont based on the criteria at that time. The cleanup criteria has changed and that is why the Corps is back at Chambers Works today.

What's been accomplished so far... George said the Corps has reviewed hundreds of thousands of pages of documentation obtained from New Jersey Department of Environmental Protection (NJDEP), Nuclear Regulatory Commission (NRC), AEC, and Department of Energy (DOE). The Corps has also reviewed thousands of historical photographs. These photos have provided information on activities that occurred on site over time such as building demolition. Historical photos have been reviewed to determine if there are other areas that the Corps needs to address. This data has been input into a Geographic Information System (GIS) database. DOE has provided microfilm information for the project. The Corps has completed some preliminary research on the microfilm. George showed some of the historical aerial photos of Building 845 and F Corral area in 1944 and 1995 to show the differences in these sites over time. He pointed out that a great deal has changed in the F Corral area since 1944.

What still needs to be done... The Corps needs to coordinate further with EPA, NJDEP & DuPont to complete the historical information review. The Corps is reviewing what cleanup activities have been done at DuPont through the Resource Conservation and Recovery Act (RCRA) and how it will impact the work the Corps will be doing. The Corps is working on a CD searchable database of the microfilm information so that they will be able to search information by word. This will make it easier for the Corps' technical team to make decisions.

George showed the project site map. Operable Unit 1 includes Building 845 and F Corral. Operable Unit 2 includes the Central Drainage Ditch and Building J-26 area. Operable Unit 3 includes the Historical Lagoon A Area (Basin Complex is how it is known today) and the East Burial area. He anticipated that the Corps will redefine Operable Unit 3 further based on some investigative work the Corps is doing in these areas right now.

Remedial Investigation Work Plan for Operable Unit 1 –George showed the RAB the sampling grid that will be used for F Corral and former Building 845. The grid also showed where the Corps will be sampling concrete/building foundations in both areas. The Corps plans to install a minimum of three groundwater monitoring wells in this Operable Unit to monitor these areas. The objectives of the Remedial Investigation/Feasibility Study (RI/FS) are to define the nature and extent of MED-related radiological contamination in the F Corral and former Building 845 areas and to determine the appropriate remedial actions required for both.

Field Investigation Methods –The Corps has already completed a gamma walkover survey and a geophysics survey of the former Building 845 area. The Corps will conduct subsurface soil/concrete sampling and a groundwater sampling event beginning in May 2002. George showed a photo of a field sampling professional in Level B protection carrying a RAD detection instrument. Site workers will begin wearing Level B protection as a safety precaution until more is known about the sites.

A RAB member asked how close DuPont employees will be to the work sites. Karl Ford (Army Corps) said that the work sites will be restricted. George said hopefully once the project team has more information about the sites –they will hopefully be able to dress down to Level C protection. Dave Pohl (Army Corps Contractor from Weston) showed the RAB actual Level B clothing. He explained the difference between Level B and Level C clothing. Level B looks like a moon suit and provides a site worker with supplied air. Level C clothing includes a respirator with a cartridge.

Gamma Walkover Survey – Gamma walkovers are conducted to identify any hazards (hot spots) to protect workers. Findings from these surveys help the Corps to identify sampling locations and the horizontal extent of the contamination. Based on these findings, the Corps may need to enlarge the study area for a site. A RAB member asked how far across the equipment reads. Dave Pohl said about 5 feet.

Geophysical Survey – George showed a photo of a site worker conducting a geophysical survey. We have already conducted a geophysical survey at former Building 845 area. This is a cost-effective way to locate buried utilities, foundations, and other features. We want to prevent potential interference with our upcoming drilling/soil sampling efforts. George showed a map showing the geophysical survey data for Building 845 area. The pink areas on the map show concrete or utility lines. The green areas on the map are not anything to be concerned about.

Subsurface Soil Sampling - George showed a photo of subsurface sampling and the type of equipment that will be seen on site when this sampling begins. This photo showed site workers in Level D protection. The photo also showed the screening equipment that will be used on site for subsurface soil sampling. The Corps will have an on site lab for screening and will send selected samples to an off-site full-scale laboratory for analysis. The soil samples will be collected from geoprobe equipment. The Corps will be looking for radiological contamination in the subsurface soils to determine if any contamination sources exist. George showed a photo of a site worker monitoring for radiological contamination next to a monitoring well and a photo of a field crew performing a decontamination check using radiological detector following a field sampling event.

Groundwater Sampling –The objective is to characterize the nature and extent of groundwater contamination that has resulted from the uranium processing performed at the site. Groundwater samples will be collected using the geoprobe initially. The Corps will then install monitoring wells in hot spots identified through the subsurface soil sampling and the geoprobe groundwater sampling. George showed preliminary groundwater modeling information. This information is important to tell the project team groundwater flow directions. A RAB member asked if the model showed the entire site. Dave Pohl said yes. George made a commitment that even if no contamination is found migrating off-site, the Corps will still conduct sampling outside the facility.

Janet Agnew noted that 27 buildings have been demolished at DuPont. As a result, the township is not getting the same level of tax revenues from DuPont as before. How is DuPont going to be able to lease to new tenants until we know it is safe? Steve Rogers (DuPont) said that DuPont can lease space on the outside or perimeter of the property. He pointed out that there are several companies leasing there now. Steve said that DuPont has its own extensive environmental assessments/protocols they follow to investigate sites prior to leasing and they also follow corporate real estate protocols.

George showed preliminary pH results from groundwater sampling conducted last year. This is an indicator used in the model to determine movement.

Remedial Investigation (RI) Schedule - George reviewed the RI work schedule for the next few months. RI field work will begin in May 2002. The Corps is also hoping to

award a contract in May for development of the work plan for Operable Unit 2. George says he hopes the field work for Operable Unit 1 will be completed in July 2002. The Corps will work on the RI report from this effort between July and October 2002. During this time, the labs will be doing their analyses and the project team will be updating the GIS database, performing groundwater modeling runs, technical review of the data, and quality assurance/quality control of data. The draft RI report will be forwarded to the state (NJDEP) and DuPont to review prior to public release. George pointed out that he does not always get the funding he requests and that his proposed schedule is based on the funding he actually receives. George said he has money in place to complete Operable Unit 1. He is trying to secure funding for Operable Unit 2. George also described all the Corps resources being put into this project to ensure that the Corps manages the project the right way including: professionals from the various Corps districts, contractors, and participation of the regulatory agencies and DuPont.

George hopes that the work plan for Operable Unit 2 will be sent to the regulatory agencies and DuPont for review in the Fall 2002. He also hopes to have results of the RI for Operable Unit 1 completed in Fall 2002. George anticipates that the RI report for Operable Unit 1 will be sent to the regulatory agencies and DuPont in the Winter 2002. He also expects to submit the work plan for Operable Unit 3 to the regulatory agencies and DuPont for review in Winter 2002. George said that if he gets the funding he needs – the Corps should really be moving out on this project this year. George said he hoped that all the site sampling is completed by May 2003.

Military Helicopter Flyover – George said that he anticipated a military helicopter flyover of the DuPont site in the next 6 weeks to take some new aerial photos of the site. He said he wanted the public to know especially in light of September 11. George said he would contact DuPont, the local police, and the state police in advance to let them know. George asked the RAB for input on how to get the information out to the public. He said it would be a low flyover – 100-150 feet off the ground. George said he anticipated putting out a press release in advance. Janet Agnew recommended press releases to papers in Wilmington, Gloucester, and Salem.

Janet Agnew introduced Bernard Sennstrom who she invited to the meeting from the Pennsville Township.

Robert Schoenfelder (Weston/Army Corps contractor) showed the RAB radiological survey equipment.

8:00 p.m.

RAB Business (*Sandra Chaloux, CEC*)

Sandra began by discussing the response summary she prepared based on responses received from the last project newsletter. The first mailing of the September 2001 newsletter went out in October to 308 people -including a near neighbor list provided by DuPont at the outset of the project as well as the regular RAB mailing list of about 80. At the last RAB meeting, Glen Donelson recommended that the project newsletter be mailed to the DuPont Vets and Veteranettes. He provided CEC a list of both. We sent an additional 360 newsletters to Vets who still live in this area and 104 to Veteranettes. We sent a total of 772 newsletters out. We received 61 business reply cards back. This is a very high response rate. Most of the responses came from the Vets and the Veteranettes. She also mentioned that one of the Vet respondents expressed an interest in joining the RAB. Sandra said that she would begin the next edition of the newsletter and asked the RAB for input on what to include. George said he thought that this newsletter would be very specific and talk about the work plan including the level of protection that site workers will use, project schedule, etc. No other suggestions were given.

Sandra also pointed out that the RAB Operating Rules established in 2000 indicated that the community co-chair position has a 2 year term –at which time another election would

be held. Sandra asked which RAB members would be interested in being considered for the community co-chair position so that the elections could be conducted at the next meeting. None of the RAB members present expressed an interest in being considered initially. Francis said he wanted to think about whether he wanted to continue to serve as the community co-chair. James Warner, the new Salem County representative, also indicated he would be interested in serving as Community Co-Chair if the rest of the RAB members did not perceive a conflict of interest.

The RAB discussed meeting attendance issues. Sandra pointed out that the RAB Operating Rules established the following attendance policy:

Attendance – Regular on time attendance is a requirement for continued RAB membership. Members are expected to attend every meeting. However, when they are unable to attend, an alternate will be acceptable but will not be eligible to vote on administrative matters. Community members who are no longer able to serve or no longer desire to serve on the RAB are expected to resign. Failure to attend three consecutive scheduled meetings will be deemed a resignation unless the community member notifies either co-chair prior to the third absence and requests to remain a member.

The following RAB members have missed the last three consecutive RAB meetings: Catherine Dare, James Kates, Jim Gant, Ron Giordano, and Douglas Fogg. They will be dropped from the active RAB list if they do not contact Sandra Chaloux, Francis Faunt (community co-chair), or George Bock (government co-chair) before the next meeting to indicate that they still want to participate.

A RAB member inquired about the alternate co-chair. Sandra said that she spoke with Catherine Dare. Catherine has not been able to make the meetings since they were switched to Tuesday nights. The RAB discussed the meeting night and agreed to keep meeting the second Tuesday of the month.

Sandra said she would send information out to the RAB members about the responsibility of the community co-chair. Sandra told the group that the community co-chair is someone that she and George can coordinate with if issues come up. She said she did not anticipate much more of a time commitment than attending the meetings. Sandra requested that any RAB members that are interested in being considered for the community co-chair position should let her know prior to the next meeting. She hoped to hold elections at the next meeting. There are currently 16 community RAB members with about 10 really attending. George and Sandra discussed doing another outreach effort to identify new prospective RAB members. A RAB member suggested a press release in the local paper following these meetings. This may put these efforts back on the radar screen and generate more interest in the RAB. He said people he has spoken with about the committee have heard about the project but aren't that interested.

Francis Faunt asked if we had made an effort to invite members of the DuPont union. Steve Rogers said he could provide Sandra a list of union members to be included on the mailing list.

Public Comment

A meeting participant said that there is an undercurrent in the community suspecting that DuPont is sitting on some deep dark secret about what is out there. He suggested a series of press releases to keep the community informed on a regular basis versus one large press release. Another RAB member said that *Today's Sunbeam* has a column called the Scoop that runs once a week and includes short tidbits of information versus full page articles. Janet said we are hoping that DuPont can cleanup the site so that other industries can come in. A RAB member recommended an article in the newspaper that described

what has been completed so far, the activities that will take place in the upcoming months, and the next RAB meeting date, with a phone number that people can call for more information. Sandra thanked the RAB for their input and suggestions.

Francis asked about the results found from the Gamma walkover. George wasn't ready to discuss the findings because the data isn't defensible until the sampling is completed and analyzed by the lab. George promised to discuss findings in September.

Establish Action Items/Set Agenda and Date for Next RAB Meeting

The next RAB meeting will be held September 10, 2002 at the Hampton Inn from 7-9 p.m.

Agenda Items for next meeting:

Army Corps Update

- Field Activities & Findings
- Public Outreach Update

8:40 p.m.

Meeting Adjourned