DuPont Chambers Works FUSRAP Site Deepwater, NJ



RAB Meeting – April 30, 2009

DuPont Chambers Works FUSRAP Site

Purpose: Overview of the project and discuss our path(s) forward.

Agenda

Introductions All

FUSRAP Project Overview George Bock, USACE

FUSRAP Investigation Overview Carl Young, Cabrera

Feasibility Study Jay Johnson, Cabrera

Schedule George Bock, USACE

Upcoming Meeting Schedule Ann Johnson, Cabrera

Philadelphia District US Army Corps of Engineer

DuPont Chambers Works FUSRAP Site

RAB Meeting - FUSRAP Project Overview

- Manhattan Engineer District (MED) Background
- Program History
- DuPont Chambers Works FUSRAP Project
- Program/Project Challenges
- Site Map



DuPont Chambers Works FUSRAP Site How and why FUSRAP was established

- During the 1940s, 1950s, and 1960s, work was performed at sites throughout the United States as part of the nation's early atomic energy program. Some sites' activities can be traced back as far as World War II and the Manhattan Engineer District (MED).
- Most sites that became contaminated during the early atomic energy program were cleaned up under the guidelines in effect at the time. In most cases those cleanup guidelines were not as strict as today's and trace amounts of radioactive materials remain at some of the sites.



DuPont Chambers Works FUSRAP Site Site History

- In support of MED activities, DuPont worked on developing a process for converting uranium oxide to produce uranium tetra-fluoride and small quantities of uranium metal.
- No enrichment or depletion occurred at the site.

Processing activities included the following:

- Brown Oxide process (in Bldg 708 AOC 2)
- Recovery process (in Bldg 845 AOC 1)
- Green salt process (in Bldg 708 AOC 2)
- Hexafluoride process (in Bldg J-26 Area, AOC 5)
- Metal process (in Bldg 708 AOC 2)



DuPont Chambers Works FUSRAP Site Site History Cont'd

- 1942 Operations involving uranium began at this site.
- 1946 All MED activities transferred to the Atomic Energy Commission (AEC).
- Late 1947 DuPont continued research for the AEC.
- 1948-49 AEC conducted radiological surveys and decontamination of building surfaces.
- 1949-50 AEC released buildings and sites back to DuPont based on then-existing criteria.
- In 1974 DOE initiated the FUSRAP Program.
- In 1997 FUSRAP Program was transferred to the US Army Corps of Engineers.



DuPont Chambers Works FUSRAP Site Objectives of this Remedial Investigation

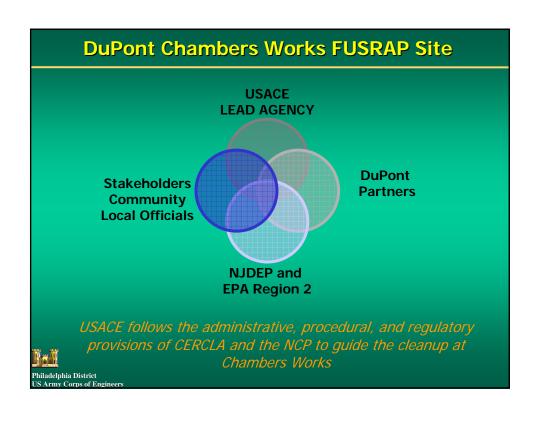
- Define the nature and extent of Manhattan Engineer District (MED) - related radiological contamination in each AOC or OU.
- Obtain the necessary data for the risk evaluation and conduct baseline risk assessment.
- Refine site conceptual model, including potential pathways and receptors for human health and ecological risk evaluation.
- If necessary, design the appropriate remedial actions for an AOC or OU.

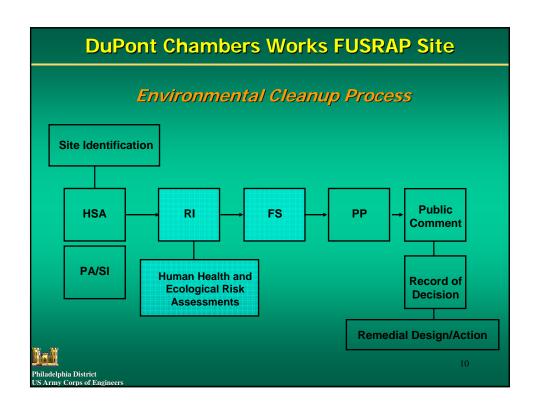
Philadelphia District

DuPont Chambers Works FUSRAP Site *Challenges*

- Active / Operating Industrial Site:
 - Health and safety issues
 - Other on-site contaminants
 - Rich industrial history
- Coordination with Regulators
- Not an NPL site
- Multiple environmental programs at Chambers Works







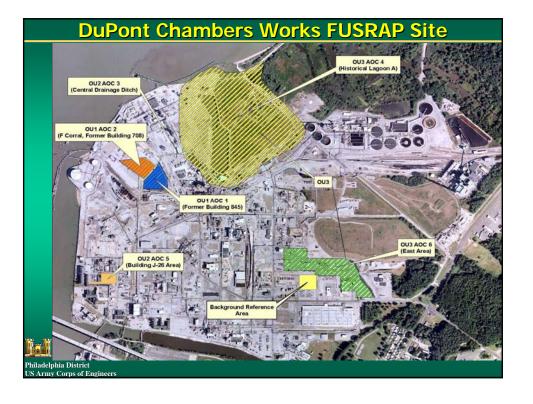
DuPont Chambers Works FUSRAP Site

Our Site

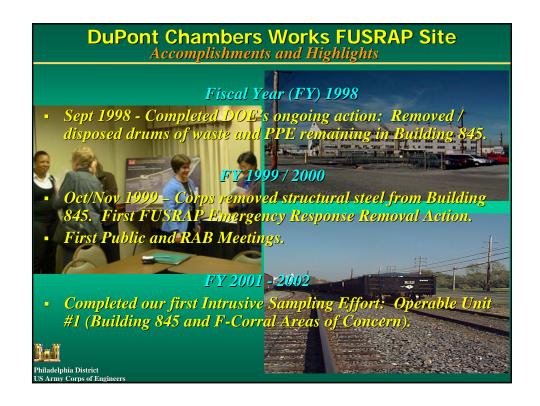
Three Operable Units

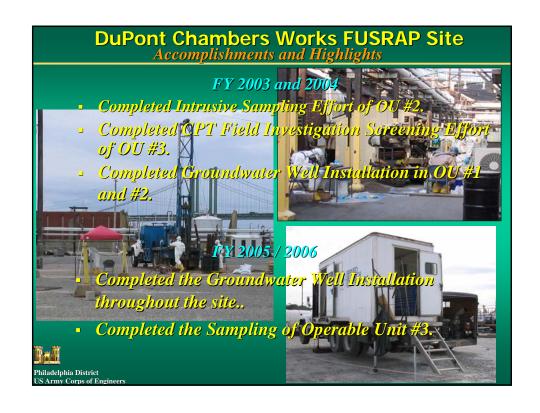
Six Areas of Concern

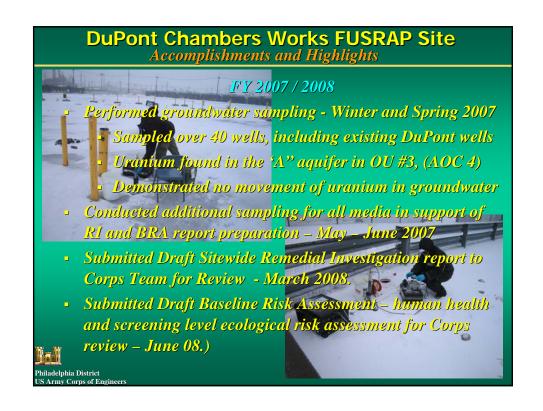


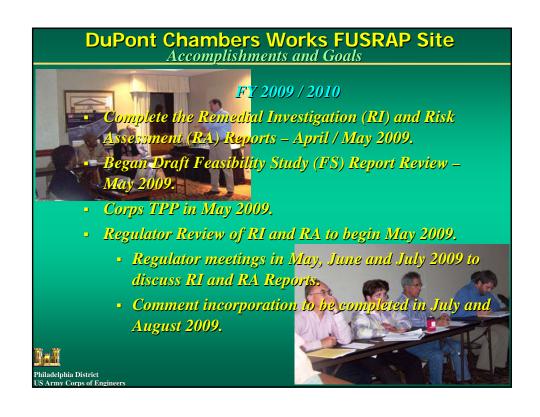


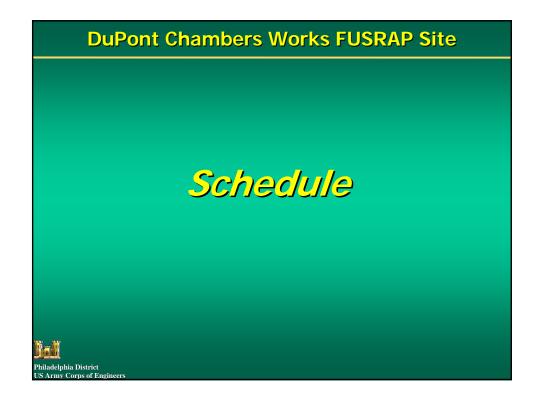
DuPont Chambers Works FUSRAP Site Where we've been Philadelphia District IS Army Corps of Engineers











FY09- Document Review and Revision FY08 Program Priorities Internal Corps Remedial Investigation/Risk Assessment Review FY09 Program Priorities NJDEP and EPA Remedial Investigation/Risk Assessment Review FY09 Program Priorities Internal Corps Feasibility Study/Proposed Plan Review

