

Meeting Summary

Introduction

After one-on-one conversations during the open house from 7:00 to 7:30, the public meeting opened at 7:30. Fourteen members of the public attended the meeting. Ms. Sandra Piettro of the U.S. Army Corps of Engineers (USACE) Project Manager welcomed participants and gave a brief history of the former Raritan Arsenal.

Presentation

Mark Callaghan of CH2M HILL presented information about the upcoming munitions Remedial Investigation, with details about the history of Dredge Spoil Area (DSA) #5 in Sayreville (see Attachment 1).

Mobilization began last week and work has started on the north side of the river. Survey work may start tomorrow (November 8) on DSA #5, followed by vegetation clearance and surface clearance, then finally digital geophysical mapping (DGM). Phase I should be completed around Thanksgiving or early December. Phase II (intrusive investigation) will begin in January 2014. Phase III (sampling for munitions constituents) is expected to begin in June.

Questions from Community Members and Answers Provided

Q: Regarding equipment to be used for vegetation clearing – what about marshland? The boat and land equipment won't work in the marsh.

A: Marsh Master and swamp buggies will be used. The Marsh Master is like a smaller version of the amphibious vehicles used for Ducks tours; it can travel on land or water. It tows a mower that will trim the phragmites down to about 4 inches. It can become stuck, but it's the best equipment for working in marshes.

Q: What's the longevity of grenades and rifle grenades? Could they have rotted away, and not be dangerous after so long?

A: There is no expiration date. They can still be dangerous. Some items, the longer they sit the more unstable and dangerous they become. You can find Civil War cannonballs that are still dangerous. It's often impossible to tell what something is after it has corroded, so we have to take everything as hazardous unless we know for sure. Some

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items have a thin case and may have deteriorated, but the grenades found in the 1993 removal action had heavy metal bodies.

Q: Were notices of this meeting sent to the whole Borough? A: Notices were mailed to about 1,400 homes between Main Street and Sayreville Boulevard near DSA #5, and to others [local officials and non-governmental organizations].

Q: What about the north side of the river?

A: A lot of munitions have been found there, but nothing outside the former arsenal boundaries. We've just started work on the DSAs on the north side, so we don't know what is in the dredge spoils there yet.

Q: If something has to be detonated, will you let residents know?

A: We won't hold a public meeting, because it takes too long. We have to guard the item 24 hours/day until commercial explosives are delivered and the item is detonated. We will notify the local emergency services through the 911 call center, providing 24 hours advance notice of the intentional detonation. We will call again when we are ready to start and we will make sure no one is in the area. We'll call the 911 call center again to tell them when we're done. With the engineering controls, you won't hear a large boom and will not feel much if any vibration; if you're in the house with the TV on, you probably wouldn't notice it.

Q: Will you put up danger/keep out signs while you are working? Kids are curious; they are known to hang out and have bonfires in the marsh area, ignoring private property signs. One of the locals rides a [dirt bike or all terrain vehicle] over there nearly every day.

A: That's a very good question. Cutting transects for the DGM will create paths to the river that could entice reckless people. That is a point worth discussing with the local officials.

Q: Are you working with police department to let them know about this? Maybe they could provide more police presence to keep out trespassers.

A: Yes, about one month ago we met with Sayreville Emergency Services Coordinator Barry Eck and some other local officials, at the fire department building. They requested we hold this public meeting. We will sit down with the public safety team and raise this



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question. If we see kids back while we're working there, we will report that to the police. If someone comes into the area during intrusive investigation, we have to stop work.

Q: Reverse 911 can be used to notify people before an intentional detonation; talk to Barry Eck.

A: We will talk with him.

Q: Are you just clearing transects or clearing all vegetation? If you clear it all, it will be more obvious that someone is trespassing in there.

A: Just 3-meter-wide transects, there is no need for us to cut back everything to do the investigation. It will grow back very quickly.

Q: We live in the Main Street Townhomes. How will you find out about items in the Sheffield Towne development, if it was built on dredge spoils?

A: The area shown as DSA #5 is the permitted maximum limit, not necessarily the area where dredge spoils actually were deposited. You can see a tall berm along the edge of the marshland, then it's flat to the river, where spoils were deposited. We don't believe that the Sheffield Towne condos were built on dredge spoils. If there were munitions there, something would have been found when the homes were built. We will run transects right up to the edge of the community, but we don't expect to find anything there except little pieces of metal (like rebar).

Q: In Phase III soil sampling, if there is toxic waste that has leached into the ground, there will be a cleanup?

A: Yes, the Corps follows the CERCLA process. We are in the Remedial Investigation (RI) phase – gathering data about locations of munitions items and analyzing environmental sample results based on the composition of munitions we find. Then we will use that data to develop cleanup strategies. There are many options, if we find there was a contamination issue related to munitions, for example DMX or TNT: we could just dig it all up, or could we cap it to keep people away, or fence it off, or mix other compounds with the soil to reduce toxicity. These kinds of alternatives will be evaluated in the Feasibility Study.

Q: There could be a hazard to your workers from hunters; we've heard them shooting. A: Thank you for letting us know.



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Q: Proposed road, Main Street Bypass – will your work hold that up? That will be a major project if it's approved.

A: We have heard of it, but don't know what their schedule is. We understand that the Department of Transportation is still working with the state on permits. Given how long that can take, we should be done with our cleanup by the time the project starts, if it does.

Q: MCUA is putting in a sewer line through that area, plus there is some kind of flood protection study going on there.

A: Yes, we've heard about that.

Q: Is the area near the Route 9 bridges involved? National Lead polluted that area. A: No, that's well outside our investigation area.

Q: In the mid-1990s, there was a proposal for a private company to do dredging in the river, which was not allowed to take place. Did they know about this munitions issue? A: We're not aware of that proposal.

Q: I live next to that area and I'm concerned about ditches full of water that overflow and make ponds.

A: Nothing that we're going to do will create more water retention, nothing that will alter terrain or move lots of earth. We'll encounter water when we dig holes in the marsh to look for munitions items, of course.

Q: We heard detonations years ago on the north side; was that related to this study? A: The Raritan Center property owner allowed the local police and fire department to blow up things they'd found. The Army Corps also did some intentional detonations of munitions items found in earlier removal actions.

Q: Will you contact us again if we sign up for the mailing list?

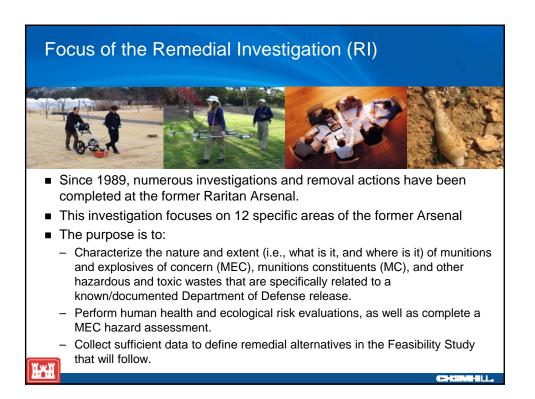
A: Yes, in December or January, we'll let you [and other residents] know about another public meeting to present the results of Phase I.

Sandra Piettro thanked everyone for coming. The meeting was adjourned at 8:15 pm.

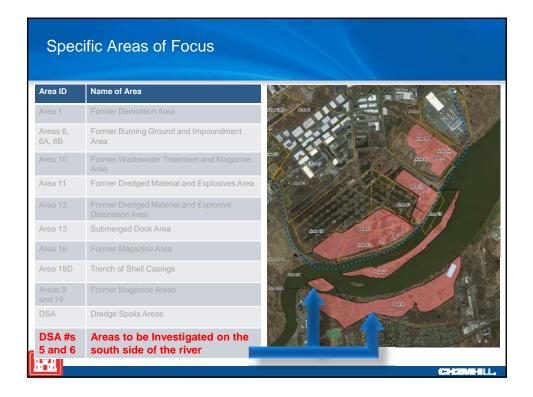


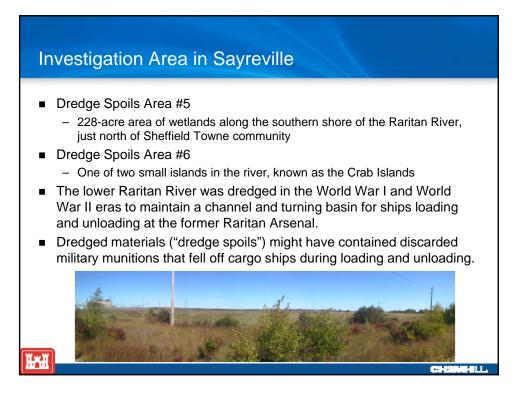
A Munitions Remedial Investigation is Beginning

This presentation provides information about upcoming work along the south shore of the Raritan River, in the wetlands between the river and Sayreville Boulevard. We Are Committed To Keeping The Public Informed

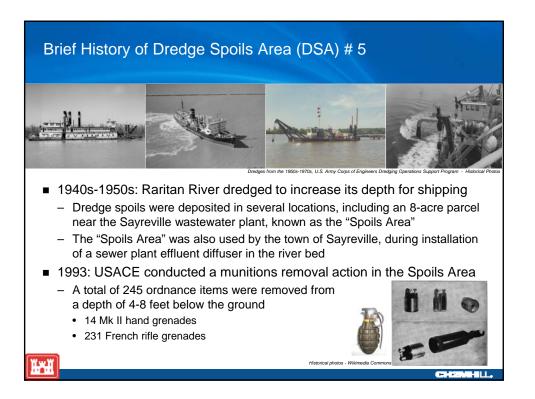


Spe	cific Areas of Focus	
Area ID	Name of Area	Acreage
Area 1	Former Demolition Area	0.57
Areas 6, 6A, 6B	Former Burning Ground and Impoundment Area	130
Area 10	Former Wastewater Treatment and Magazine Area	140
Area 11	Former Dredged Material and Explosives Area	11
Area 12	Former Dredged Material and Explosive Detonation Area	82
Area 13	Submerged Dock Area	23
Area 16	Former Magazine Area	277
Area 18D	Trench of Shell Casings	31
Areas 9 and 19	Former Magazine Areas	294
DSA	Dredge Spoils Area	645
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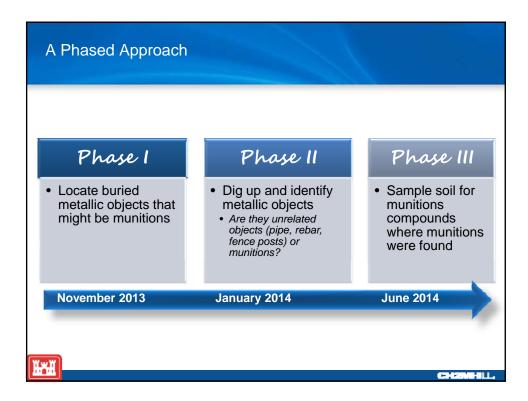




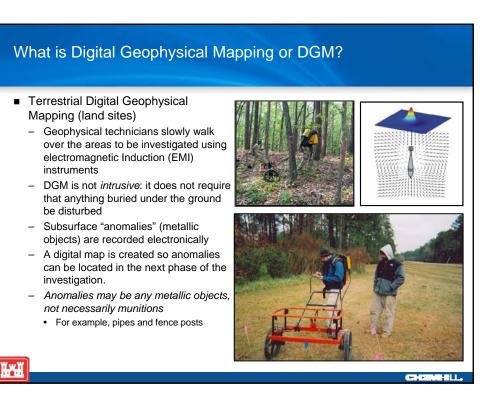
Attachment 1 - Public Information Meeting Sayreville, NJ

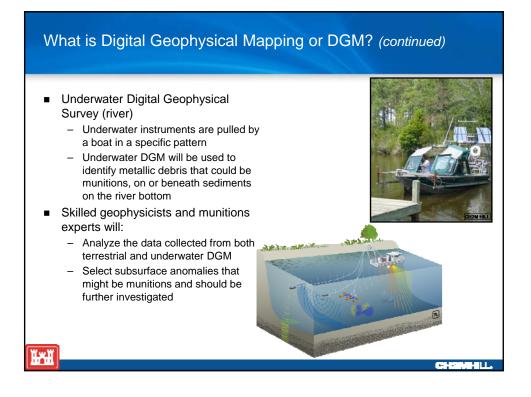


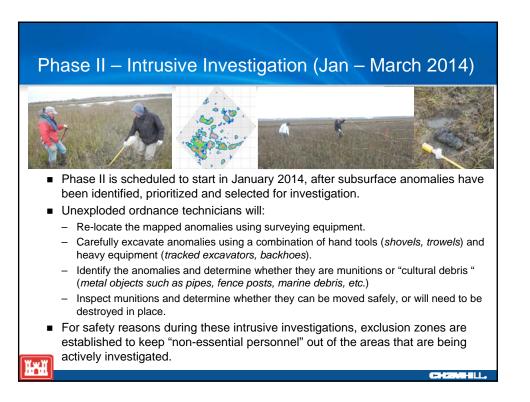












Phase III - Sampling & Analysis (June - July 2014)

- Phase III will begin after identifying and classifying any munitions that are recovered during Phase II.
- Munitions experts and scientists will identify the types of compounds (*specific metals and explosives*) that make up those recovered munitions.
- Environmental samples will be collected and analyzed for those specific compounds, to ensure that they have not been released into the environment.

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Schedule							
Phase	Task	Duration (business days)	Projected Start	Projected Finish			
Phase I	Mobilization and Site Set-up	5 days	Wed 10/23/13	Fri 10/25/13			
	Terrestrial (Land Sites)Surveying (DSA #5 and DSA #6)	4 days	Fri 11/8/13	Thu 11/14/13			
	Vegetation Clearance (DSA #5 and DSA #6)	3 days	Mon 11/11/13	Thu 11/14/13			
	Surface Clearance (DSA #5 and DSA #6)	3 days	Fri11/15/13	Tues11/19/13			
	Terrestrial DGM Surveys (DSA #5 and DSA #6)	3 days	Wed 11/20/13	Fri 11/22/13			
	River (Underwater) Digital Geophysical Mapping (DGM) Surveys	10 days	Mon 11/4/13	Fri 11/15/13			
Phase II	Intrusive Investigation		January – March 2014				
Phase III	Environmental Sampling & Analysis	June – July 2014					
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