

PROPOSED PLAN  
FOR SOIL, SEDIMENT AND SURFACE WATER  
AT RVAAP-48 ANCHOR TEST AREA  
AND  
RVAAP-13 BUILDING 1200

RAVENNA ARMY AMMUNITION PLANT  
RAVENNA, OHIO

**ORIGINAL**

PUBLIC MEETING  
August 7, 2013

Paris Township Hall  
9355 Newton Falls Road  
Ravenna, Ohio 44266

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1       **APPEARANCES:**

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3           Barbara Tittle, Facilitator

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5           W. Kevin Jago, P.G.

6           Science Applications International

7           Corporation

8           Assistant Vice President

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15

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24       **ALSO PRESENT:**

25           Vickie Reddick, SAIC

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Brett Merkel, Army National Guard  
Andrew Kocher, Ohio EPA  
Katie Tait, Ohio Army National Guard,  
Camp Ravenna

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1 MS. TITTLE: Good evening,  
2 everyone. Thanks for coming to the meeting this  
3 evening. And I will get out of that light.

4 Welcome to the public meeting for the  
5 proposed plan for soil, sediment and surface  
6 water at RVAAP-48 Anchor Test Area and the  
7 proposed plan for soil, sediment and surface  
8 water at RVAAP-13 Building 1200.

9 Both areas of concern are at the former  
10 Ravenna Army Ammunition Plant. And this public  
11 meeting serves as one of several opportunities  
12 for public comment.

13 My name is Barb Tittle and I am a private  
14 citizen from Portage County. I am here tonight  
15 to serve as the meeting facilitator. I am  
16 responsible to ensure that everyone who wants to  
17 make any comment about the proposed plans has an  
18 opportunity to do so.

19 So before we get started, however, I would  
20 like to inform you that the emergency exits are  
21 on either side of the building. There is one and  
22 there is the other back there. And the rest  
23 rooms and water fountains are off the lobby where  
24 you came in. So help yourself to the cookies and  
25 the great coffee that they brought tonight. And

1 then we will go on with the meeting.

2 Our speaker tonight is going to be Jed  
3 Thomas from SAIC. He will give us a status  
4 report on the proposed plans and then we will  
5 open the floor for questions. But I also want to  
6 make sure that you are aware of other places  
7 where you can find the copies of the plan. If  
8 you want to go to the Reed Memorial Library in  
9 Ravenna at 167 East Main Street, or you can find  
10 them at the Newton Falls Public Library on 204  
11 South Canal Street in Newton Falls. So those are  
12 where you can -- or you can also go to the web  
13 site, which is [www.rvaap.org](http://www.rvaap.org).

14 So we will start off and I will give you Jed  
15 Thomas.

16 MR. THOMAS: All right. Thank  
17 you, Barbara. My name is Jed Thomas. I work  
18 with Science Applications International  
19 Corporation. And I am here tonight to talk to  
20 you about the proposed plan for soil, sediment  
21 and surface water at Anchor Test Area and  
22 Building 1200 areas of concern within the Ravenna  
23 Army Ammunition Plant.

24 Tonight's presentation for each area of  
25 concern, both Anchor Test Area and Building 1200,

1 we are going to go over the historical operations  
2 that were conducted. We are going to give a  
3 brief summary of previous investigations. We are  
4 going to discuss the scope and the role of the  
5 response actions at the AOC's. We are going to  
6 talk about the feasibility study and the  
7 evaluation of alternatives.

8 And then we are going to present the  
9 preferred alternative, what the Army recommends  
10 going forward to address potential contamination  
11 at these areas of concern. And then we are going  
12 to discuss your role, the public participation,  
13 the decision-making and the input that you can  
14 provide to the preferred alternative. And then  
15 at the end, we will address any questions that  
16 you may have.

17 Just as a quick note, I may reference Anchor  
18 Test Area as ATA, or you may see it as ATA in the  
19 slide presentation. And Building 1200 may be  
20 presented as B-1200 in the slide presentation.

21 As you have probably seen many times before,  
22 this is a facility map of the Ravenna Army  
23 Ammunition Plant. The location of the Anchor  
24 Test Area area of concern is at the south central  
25 portion of the facility, as you can see right

1 here. And then the location of the Building 1200  
2 area of concern is to the east. You can see it  
3 right here.

4 The Anchor Test Area area of concern also  
5 has a designation of RVAAP -- RVAAP-48, and the  
6 Building 1200 area of concern has the designation  
7 of RVAAP-13.

8 I am going to start off going over Anchor  
9 Test Area. So Anchor Test Area, it is an area of  
10 concern that is about a half acre in size. It is  
11 heavily overgrown with trees and shrubs. You can  
12 see from the photograph here. There are no  
13 perennial surface water or drainage features at  
14 the area of concern. There hasn't been any  
15 sediment or surface water identified at ATA.

16 The historical operations -- it is  
17 relatively limited, what historical operations  
18 were performed at the Anchor Test Area. It is  
19 understood that it was previously used for the  
20 testing of explosives-driven soil anchoring  
21 devices. Metal rods were driven into the ground  
22 and attached with a cable. There are dirt mounds  
23 that are located at Anchor Test Area. And those  
24 were used as blast walls. And I will show you a  
25 figure later in the presentation to show you

1 where about those -- those dirt mounds are  
2 located.

3 Three previous investigations were conducted  
4 at Anchor Test Area. The first being the 1998  
5 Relative Risk Site Evaluation. That was  
6 performed to basically prioritize and classify  
7 Anchor Test Area. There was some soil -- there  
8 was soil and -- surface soil and subsurface soil  
9 samples collected. And as a result, Anchor Test  
10 Area was classified -- using those results,  
11 Anchor Test Area was classified as a medium  
12 priority area of concern. They also identified  
13 potentially contaminated areas of surface soil at  
14 ATA.

15 In addition, in 2004, there was a -- Anchor  
16 Test Area was part of the Characterization of 14  
17 Areas of Concern. Surface and subsurface soil  
18 sampling, human health risk screening, ecological  
19 risk screening was used to determine that metals  
20 in the soil were identified as potential risks.  
21 And the Characterization Report also recommended  
22 a full assessment be performed at Anchor Test  
23 Area.

24 Then in 2010 our Remedial Investigation was  
25 conducted. Additional surface soil and



1 subsurface soil samples were collected. These  
2 samples were used to add to the previously  
3 collected sample data set that we had. Part of  
4 this Remedial Investigation was human health risk  
5 assessment was performed, an ecological risk  
6 assessment was performed. And basically the  
7 sampling was determined to characterize the  
8 entire area of concern.

9 The human health risk assessment that was  
10 performed identified Arsenic as the chemical of  
11 concern in subsurface -- or in surface soil,  
12 which is in the zero to one foot strata. There  
13 were no chemicals of concern within the  
14 subsurface. So everything below one --  
15 everything below one foot was determined to not  
16 have a chemical of concern.

17 There were no ecological -- there were no  
18 concerns for the ecology environment, which it  
19 was determined that there were no actions needed  
20 to be protective of the environment. And as I  
21 mentioned before, no further sampling was needed  
22 to characterize Anchor Test Area.

23 So going forward, as I mentioned, Arsenic  
24 was identified as a chemical of concern in the  
25 surface soil, the zero to one foot interval. So

1 going forward, the Army wants to implement a  
2 remedy to make sure that the Ohio Army National  
3 Guard can, in the future, conduct military  
4 training at this area of concern.

5 The proposed remedy will basically be three  
6 objectives. One is that it will be -- it will  
7 prevent National Guard training exposure to  
8 identified COCs, or Arsenic in the surface soil.  
9 It will make sure that there are no adverse  
10 ecological effects from the chemical  
11 concentrations in the soil, and that there won't  
12 be any negative impacts to groundwater.

13 So as I mentioned, Arsenic was previously  
14 identified as a chemical of concern in the  
15 surface soil. The Feasibility Study was  
16 developed and established the cleanup goal for  
17 Arsenic of 15.4 milligrams per kilogram. And the  
18 15.4 milligrams per kilogram is also the  
19 background concentration at Ravenna, which means  
20 that once the area -- that areas above that  
21 concentration are removed, we will not only  
22 obtain protectiveness of the National Guard  
23 trainee, but we will also be protective of -- if  
24 a resident farmer wanted to go in and use the  
25 area of concern.

1           So with that, in the Feasibility Study,  
2           there are two alternatives developed to  
3           obtain -- there were two alternatives developed.  
4           One was a No Action alternative. So a No Action  
5           alternative is an assessment of what if the Army  
6           does nothing -- what happens at that area of  
7           concern if the Army doesn't do anything to  
8           address this chemical of concern.

9           The second alternative is identified -- was  
10          named Attain Unrestricted Land Use. And that  
11          alternative includes the removal of soil  
12          contamination. And as I mentioned, we will  
13          remove the soil contamination to that 15.4  
14          milligrams per kilogram, which is the background  
15          concentration. As that meets a residential  
16          farming scenario, there will be no land use  
17          controls required by the Army, and no  
18          restrictions will be put for -- put in place at  
19          the Anchor Test Area.

20          So the Army's preferred alternative going  
21          forward is to implement Alternative 2, again  
22          named Attain Unrestricted Land Use. The  
23          alternative includes the excavation and removal  
24          of an estimated 14 cubic yards of soil -- surface  
25          soil from the zero to one foot depth. Once that

1 soil is removed, it is going to be tested and  
2 disposed at a licensed disposal facility.

3 Upon the removal of the areas with the  
4 contamination, there will be footprints that we  
5 are going to go and we are going to sample to  
6 make sure that all of the contamination has been  
7 removed.

8 And then once it is confirmed that we have  
9 met those cleanup goals, and all the  
10 contamination has been removed, we are going to  
11 bring in some clean soil and reseed the area so  
12 that vegetation reestablishes.

13 Here is a graphical depiction of what we are  
14 talking about. So this is Anchor Test Area area  
15 of concern. You see some areas -- some boxes  
16 highlighted in gray. Those are some previously  
17 sampled areas. And then this area in orange, if  
18 you can see, that is what we are recommending  
19 requires removal. So that is the area that  
20 exceeds that Arsenic concentration, that cleanup  
21 goal of 15.4 milligrams per kilogram.

22 And as I mentioned before, there is a dirt  
23 mound that exists. This is the dirt mound that  
24 used to serve as the blast wall here in previous  
25 activities. So the implementation of the

1 preferred alternative is to remove this area,  
2 this orange area, until we attain that Arsenic  
3 cleanup goal of 15.4 milligrams per kilogram.

4 And Building 1200, the previous activities  
5 that were performed at Building 1200, it was  
6 designated as an Ammunition Sectioning Area. The  
7 area of concern used to contain three buildings,  
8 one called Building 1200. There was also two  
9 Buildings S-4605 and T-4602. These three  
10 buildings served as a quality assurance  
11 inspection station for production line munitions.  
12 They would bring munitions to the area. They  
13 would disassemble them and inspect them. And  
14 some of the -- if there was explosive residue on  
15 the munitions, they were -- they went through a  
16 steam melt-down process to remove the explosive  
17 residue on the munitions prior to the disposal of  
18 those munitions.

19 The Building 1200 area of concern, it is  
20 approximately eight acres in size. The three  
21 buildings that I mentioned before, they have been  
22 demolished in 2004 and 2005. Those buildings  
23 were removed.

24 As you will see here in a second, the area  
25 that the buildings used to be located, it is

1 bare. And where the building footprints are,  
2 that is surrounded by a heavily vegetated area.  
3 And there is a ditch that connects -- there is a  
4 half acre unlined settling pond connected by a  
5 ditch line, where the front -- where the building  
6 footprints were. You will see that here in a  
7 second.

8 So here is the graphical depiction of  
9 Building 1200 area of concern. So here is  
10 the -- where the buildings used to be located.  
11 The current building footprints. And you can  
12 see -- if you can see in this photograph, but it  
13 is basically pretty bare here. There are three  
14 monitoring wells in the immediate area where the  
15 buildings used to be located.

16 There is a ditch -- this is the ditch line  
17 running to the former settling pond. Again, the  
18 settling pond is about a half acre in size. And  
19 as you can see, it is pretty heavily vegetated  
20 itself. There is water there from time to time,  
21 but usually not much more than I would say a  
22 foot, but it also can be dry.

23 So at the Building 1200 area of concern,  
24 there have been five investigations performed.  
25 In 1989, there was the RCRA Facility Assessment

1 that basically made a further recommendation that  
2 soil, sediment and surface water of the ditch and  
3 the settling pond was required.

4 And in 1996, there was a Preliminary  
5 Assessment that was conducted. And out of this  
6 Preliminary Assessment, it identified the  
7 Building 1200 area of concern as a high priority.  
8 And it identified explosives and metals as  
9 potential contaminants at the AOC.

10 In 1996, there was sampling conducted as  
11 part of the Phase I Remedial Investigation.  
12 There were surface soil samples, subsurface soil  
13 samples, sediment and groundwater samples  
14 collected. The determination coming out of that  
15 Phase I RI was that there was no widespread  
16 contamination detected in the soil. And it  
17 reclassified the Building 1200 area of concern as  
18 a medium priority.

19 The Building 1200 area of concern is also  
20 part of the previously mentioned Characterization  
21 14 Areas of Concern. Surface soil, subsurface  
22 soil, sediment, geotechnical and groundwater  
23 samples were collected. And out of that  
24 assessment, there were numerous chemicals  
25 identified as potential risks to human health and

1 the environment. And there was a recommendation  
2 to go forward with a full risk assessment for  
3 that area of concern.

4 And then in 2010, there was another Remedial  
5 Investigation conducted where surface soil,  
6 subsurface soil, sediment and surface water  
7 samples were collected. Again, this fed into the  
8 previously collected data at the area of  
9 concern. And out of that, there was a human  
10 health risk assessment and an ecological risk  
11 assessment performed. And that the ecological  
12 risk assessment did not identify any chemicals  
13 that provided a risk to the environment. So no  
14 further actions were needed to address ecological  
15 resources.

16 But the human health risk assessment did  
17 identify Manganese as a chemical of concern in  
18 the surface soil. So, again, in the zero to one  
19 foot interval. And there were no chemicals of  
20 concern in the subsurface soil.

21 So going forward, as I mentioned very  
22 similar to Anchor Test Area, the Army's intent is  
23 basically to remediate the Building 1200 area of  
24 concern, so that the Ohio Army National Guard can  
25 conduct military training in the future at this



1 AOC.

2 As I mentioned, Manganese in surface soil  
3 was identified as a chemical of concern. So the  
4 objectives going in to addressing the Manganese  
5 chemical of concern is to make sure that we are  
6 preventing the National Guard training exposure  
7 to Manganese, to the COC, to make sure that there  
8 are no adverse ecological effects at the area of  
9 concern, make sure there are no impacts from  
10 soil, sediment or surface water to the  
11 groundwater.

12 The Feasibility Study that was conducted, it  
13 identified -- or it presented a cleanup goal of  
14 Manganese of 1,450 milligrams per kilogram,  
15 which, again, is similar to the Anchor Test  
16 Area. That is the background concentration for  
17 Manganese at the facility.

18 So attainment, remediate to that cleanup  
19 goal not only protects the National Guard  
20 trainee, but it also protects the resident  
21 farmer. So it is basically saying, you know,  
22 that a residential scenario would be achieved in  
23 implementing a remedy to that cleanup goal.

24 The Feasibility Study assessed two  
25 alternatives. The No Action alternative. Again,

1 what happens if the Army doesn't do anything?  
2 What are the impacts if the Army doesn't do  
3 anything? And then the second alternative named  
4 Attain Unrestricted Land Use, where we would go  
5 out, remove all of the soil that is contaminated  
6 and -- to that cleanup goal, that 1,450  
7 milligrams per kilogram cleanup goal. And with  
8 that, as I mentioned, since we would attain  
9 unrestricted land use, there would be no land use  
10 controls. The Army wouldn't have to put any  
11 restrictions on the site going forward.

12 So the preferred alternative by the Army is  
13 to implement alternative 2, Attain Unrestricted  
14 Land Use. The alternative right now that -- the  
15 estimated volume would be 225 cubic yards of  
16 surface soil, so that zero to one foot ground  
17 surface would be removed. There is three  
18 different areas -- I will show you in a second --  
19 that will require removal. We are going to  
20 excavate the soil. We are going to test and make  
21 sure we are properly disposing it at a licensed  
22 disposal facility.

23 And we are going to go out. We are going to  
24 sample the areas that have been excavated to make  
25 sure that we have attained that cleanup goal so

1 we can determine if additional excavation is  
2 needed to get to that cleanup goal for Manganese,  
3 or if we have met the cleanup goal and the site  
4 can be completed and restored.

5 In addition, part of the Remedial  
6 Investigation, we implemented a survey of  
7 asbestos-contained material, because as I  
8 mentioned before, there were three buildings that  
9 were demolished. And what we did is we sent out  
10 a licensed professional to see if there was any  
11 asbestos-containing material at the area of  
12 concern. We did not find any. But there is a  
13 mound that we just wanted to further investigate  
14 as part of the remedial action to make sure there  
15 is no asbestos-containing material in the mound.  
16 You will see here in a second. If there is, we  
17 will remove it. And that will be part of -- like  
18 I said, that is basically -- that inspection and  
19 the potential removal, if the asbestos-containing  
20 material is found, is part of the remedy here.

21 And for any areas that have been excavated  
22 and restored and confirmed meets all of the  
23 cleanup goals, we are going to bring in clean  
24 soil, we are going to reseed the area and  
25 reestablish the vegetation.

1           So here is a site map of the Building 1200  
2 area of concern that we saw a few minutes ago.  
3 Again, the gray areas indicate areas that were  
4 sampled during the previous investigations. We  
5 have some -- the areas in orange are the areas  
6 that we are recommending for removal.

7           So we are recommending removal of this  
8 discharge area from this former settling pond.  
9 So here is the former settling pond, that half  
10 acre former settling pond. The discharge area,  
11 this ditch line exceeds the cleanup goal for  
12 Manganese, so are going to remove that -- we are  
13 going to remove the surface soil there.

14           There are also two locations here that are  
15 adjacent, but these are two separate locations  
16 that we are going to remove soil, until we attain  
17 that Manganese cleanup goal.

18           Also as I mentioned, here is the dirt  
19 mound. It is right next to Building T-4602.  
20 Here is a picture. It is a pretty short mound.  
21 It is less than four feet high. And that is  
22 where we are going to do some further  
23 investigation just to make sure there is no  
24 asbestos-containing material. Or if there is, we  
25 are going to remove it.

1           So with that, the public participation and  
2 your input to this whole decision-making process  
3 is very important. The Army would like to get  
4 any input that you may have to the two preferred  
5 alternatives that I have presented.

6           We have -- we will address any questions  
7 here at the end of this slide presentation. And  
8 there is also a public comment period -- a 30-day  
9 public comment period that extends until August  
10 13, 2013. So if you do have any comments or any  
11 questions, you know, we can address them here, or  
12 there are ways to provide comments -- written  
13 comments to the Army going forward.

14                   MS. TITTLE:                Thanks, Jed. And  
15 before we go any further, a comment from the Ohio  
16 EPA, please?

17                   MR. KOCHER:                Yes. I would just  
18 like to say that the Ohio EPA concurs with the  
19 alternatives that were selected in these proposed  
20 plans.

21                   MS. TITTLE:                Thank you.

22                   MR. KOCHER:                Sure.

23                   MS. TITTLE:                So does anyone  
24 have any questions? This is your opportunity.

25                   Seeing no questions -- one more time if

1 anyone has any questions? Or you can do written  
2 comments. You can make written comments/  
3 questions. It is outlined in the information  
4 that is available. And Vickie can help you with  
5 the comment cards if you think of something  
6 later. And certainly let the Army know. And we  
7 will go from there.

8 Otherwise, enjoy the cookies and drink  
9 coffee. Thank you.

10 (Thereupon, the public meeting was  
11 concluded at 6:52 p.m.)

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