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d/b/a

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TO: Jacqueline Mattingly  
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St. Louis District - FUSRAP Project Office  
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Berkeley, Missouri 63134  
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In re: St. Louis North County Feasibility Study/Proposed Plan  
Meeting, Hazelwood, Missouri  
May 29, 2003

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Reported by Sandra L. Ragsdale, RPR

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13 St. Louis North County  
14 Feasibility Study/Proposed Plan Meeting

15 Hazelwood Civic Center  
16 Hazelwood, Missouri

17  
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19  
20 7:00 P.M. - 9:00 P.M.  
21 May 29, 2003  
22  
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3  
1 FACILITATOR CHARLOTTE O'NEIL: Good  
2 evening and welcome to the North County  
3 Feasibility Study/Proposed Plan public meeting.  
4 We're glad to have you here.

5 Before we start, I want to point out the  
6 emergency exits. We have two here on the left, my  
7 left, your right, two here on my right, your left.  
8 Please note that the two on this side of the  
9 building are wired and alarmed. So unless it's a  
10 real emergency you don't want to use these exits.  
11 But please do if there's a crisis.

12 Also we would appreciate it if you would  
13 turn off your cell phones and pagers so that we  
14 can proceed undisturbed by that for the next hour  
15 or so.

16 The first thing on our agenda, I'd like  
17 to introduce to you the St. Louis FUSRAP Program  
18 Manager who has been responsible for this project,  
19 Sharon Cotner.

20 MS. COTNER: Hi. Good evening tonight.  
21 Can everybody hear me okay? I'm going to get real  
22 close to this so you can hear.

23 My name is Sharon Cotner. I work for  
24 the St. Louis District Corps of Engineers and I'm  
25 the program manager. Thank you for coming this

4  
1 evening and we're going to get started in just a  
2 moment. But before we do, I would like to  
3 introduce a couple of folks that are at the  
4 meeting tonight. First off, if you'll raise your  
5 hand or stand up that would be great.

6 This is Mr. Bruce Smith. Bruce is the  
7 Assistant for Interagency International Affairs  
8 with the Secretary of the Army for Civil Works  
9 Office. He's here from Washington.

10 (applause)

11 MS. COTNER: You might want to hold that  
12 for a minute. We don't have that much time.

13 The next person I'd like to introduce is  
14 Ms. Sharon Wagner. Sharon is the FUSRAP Program  
15 Manager from Headquarters Corps of Engineers in  
16 Washington.

17 Ms. TommiAnn McDaniel. TommiAnn is our  
18 team leader. She's also from Headquarters Corps  
19 of Engineers in Washington. Those are the Corps  
20 of Engineers folks except for the last one.

21 Mr. Dan Wall is here. Dan is the  
22 Project Manager from U.S. -- I'm going to try not  
23 to use acronyms tonight, this is going to be tough  
24 for me -- the Environmental Protection Agency  
25 Region 7 out of Kansas City.

1 We also have Art Kleinrath. Art is  
2 here, he's the Department of Energy's manager for  
3 long-term stewardship. He's here from the Grand  
4 Junction, Colorado office. He's here because  
5 ultimately the long-term stewardship  
6 responsibilities will be turned over from the  
7 Corps of Engineers to the Department of Energy for  
8 these sites.

9 The next individual I'd like to  
10 introduce is Mr. Fred Johnson. Fred is here from  
11 Congressman Clay's office. These projects were  
12 recently transferred to Congressman Clay's  
13 district.

14 And the final person I'd like to  
15 introduce, last but definitely not least, is  
16 Colonel Kevin Williams. Colonel Williams is the  
17 District Commander for the St. Louis District Army  
18 Corps of Engineers. And Kevin -- Colonel  
19 Williams, would you like to say a couple of  
20 welcoming remarks?

21 (applause)

22 COLONEL WILLIAMS: Thank you all very  
23 much. We're really impressed with the turnout and  
24 the involvement that you obviously have shown by  
25 being here tonight. I know it's not easy

1 sometimes on a night during the week with all the  
2 activities and everything else that's going on.  
3 But this is clearly a very important next step in  
4 this process of getting these sites cleaned up.

5 And the public involvement comment  
6 period and your comments back to us on how we plan  
7 to go about this is vital to us all getting to a  
8 solution to this problem. So again thank you all  
9 for being here. It really is meaningful to all of  
10 us that you're here and will be providing us with  
11 comments either on the mike or in writing or both.  
12 But we really look forward to your input as we  
13 take this next step in this process down the road  
14 to ultimate cleanup. So thank you all very much  
15 for being here tonight.

16 (applause)

17 MS. COTNER: I'm now going to turn the  
18 microphone over to Charlotte O'Neil. Charlotte is  
19 our facilitator for this evening. She's going to  
20 briefly go over some ground rules and kind of give  
21 you the layout of how things are going to be going  
22 on this evening.

23 We also have Mr. Jim Werner here. Jim  
24 is with the Missouri Department of Natural  
25 Resources.

1 (applause)

2 FACILITATOR O'NEIL: Okay, rules, rules  
3 of the road. The focus of this meeting, the  
4 subject matter that we're talking about, is the  
5 St. Louis North County Site. So we would  
6 appreciate it if you would limit your comments to  
7 that. We know there are other sites in this area  
8 that you are concerned about. And if you want  
9 more information, the Missouri Department of  
10 Natural Resources table has a handout with points  
11 of contact for you on those issues. But please do  
12 limit your comments tonight to the task at hand.

13 We'll begin with Sharon, our FUSRAP  
14 Program Manager, providing a presentation on the  
15 feasibility study and the proposed plan. There  
16 were copies of the presentation available on the  
17 sign-in desk. If you didn't get one on your way  
18 in and you would like one, please grab one after  
19 the meeting. There were plenty for everyone.

20 We're going to be certain -- we're  
21 committed to making time for everyone to have an  
22 opportunity to speak. If you did not sign up to  
23 speak it doesn't matter, we'll get to you. If you  
24 think of something that, you know, two-thirds  
25 through the meeting that you just want to say,

1 once everyone who did preregister to speak has had  
2 their turn, we will call anyone else up after that  
3 who wishes to speak. So don't worry.

4 Only oral comments are being taken.  
5 We're not taking questions. This is a hearing  
6 format. We're taking your input. It's being  
7 recorded verbatim.

8 If you have questions that you want  
9 answered, if you want them answered tonight we  
10 have technical folks in the back of the room who  
11 are happy to step outside and answer any questions  
12 they can for you. Or if you want to wait until  
13 after the meeting, we'll have folks here then as  
14 well.

15 If you issue a question in this room, it  
16 will become part of the verbatim transcript and it  
17 will be addressed in the responsiveness summary.  
18 So you'll get an answer that way in writing or  
19 personally right here on site.

20 We're also accepting written comments  
21 and questions. If you brought any or if you want  
22 to jot something down and don't want to speak,  
23 leave them with the girls at the sign-in table.

24 And I told you about the verbatim  
25 record. The verbatim record will be posted on the

1 FUSRAP website probably within 2 or 3 weeks and  
2 you can download it then. If you have problems  
3 with that, just call the FUSRAP office. They'll  
4 be glad to get you a copy.

5 Okay. With that, we'll go back to  
6 Sharon for her presentation.

7 MS. COTNER: What I'm going to do is  
8 I'm going to give a brief 20-minute slide  
9 presentation. What I'm actually going to cover  
10 are what I would call the highlights of the  
11 Feasibility Study/Proposed Plan for those of you  
12 who didn't make it through those very voluminous  
13 documents.

14 These are the general topics that I'm  
15 going to cover; the purpose of this meeting if you  
16 will, a very brief history of the site, what our  
17 objectives were for the Feasibility Study/Proposed  
18 Plan, a summary of the alternatives, a more  
19 detailed discussion of the preferred alternative,  
20 some important dates you might want to jot down or  
21 make sure you remember, and a little bit of input  
22 as far as what's going to happen to your comments,  
23 both the written and the oral comments, and how  
24 you can contact us for additional information.

25 The purpose of this hearing is to allow

1 the Corps to receive comments from the public on  
2 the Feasibility Study and the Proposed Plan. And  
3 specifically what we're after are your supporting  
4 comments, any reservations you would have, and any  
5 other issues that you would like us to address or  
6 consider.

7 The Corps is required to use 9 criteria  
8 in selecting the final remedy for this site. And  
9 these are spelled out in planning guides. And one  
10 of those 9 criteria is community acceptance. And  
11 that's why we're here tonight. We need to get  
12 your input as to what you believe should be the  
13 preferred alternative and what your concerns are.

14 So what happened and how did it get to  
15 this point. First off, we're here because of a  
16 federal program. We've thrown the word FUSRAP  
17 around quite a bit so far and there's a good  
18 reason for it, and that's because it stands for  
19 the Formerly Utilized Sites Remedial Action  
20 Program, which is quite a mouthful.

21 FUSRAP addresses contamination resulting  
22 from activities at the Manhattan Engineer District  
23 and the Atomic Energy Commission in support of the  
24 nation's early atomic weapons program. In this  
25 case we are particularly concerned about those

1 activities that occurred in North County.

2 The types of activities we're talking  
3 about are storage of processing residues,  
4 migration by wind and water, transportation  
5 between the sites in uncovered trucks.

6 As part of this program in the past, and  
7 it will continue in the future, we accomplished  
8 extensive coordination with the Environmental  
9 Protection Agency and the Missouri Department of  
10 Natural Resources.

11 Specifically in the case of these sites,  
12 the story begins with the Mallinckrodt Chemical  
13 Plant in North St. Louis City. And just to give  
14 you your bearings on this, this right here is the  
15 McKinley Bridge area. This is Highway 70. And  
16 the Mississippi River is over here.

17 In 1939 Einstein wrote President  
18 Roosevelt that he believed a bomb could be  
19 constructed to set off a nuclear chain reaction.  
20 In 1941 the United States declared war on Germany  
21 and Japan. And in 1942, one year later, an atomic  
22 physicist at Washington University contacted  
23 Edward Mallinckrodt of Mallinckrodt Chemical to  
24 ask him if his company could refine uranium ore --  
25 or uranium from ore using an ether extraction

1 process. Mallinckrodt agreed, and the processing  
2 continued from 1945 until 1957 at the Mallinckrodt  
3 facility.

4 Within a year, Mallinckrodt ran out of  
5 space to store the residues or the left over  
6 material at the Mallinckrodt plant. At that point  
7 in time, the Manhattan Engineer District in 1946  
8 purchased 21.7 acres in North St. Louis County  
9 adjacent to Lambert International Airport to store  
10 these residues. The airport area is right over  
11 here.

12 Most of these residues were contaminated  
13 with uranium, thorium and radium. And they were  
14 stored in bulk on open ground at that site. There  
15 are some photos at the historical table in the  
16 back that will give you a feel for what that  
17 looked like.

18 In 1966 and 1967 most of the stored  
19 residues were sold to a private company for  
20 materials recovered. The residues were moved from  
21 the Airport Site to the Latty Avenue site.  
22 On-site structures at the airport facility were  
23 razed, buried on the property, and covered with  
24 clean soil.

25 And although this covering reduced the

1 surface dose rate to an acceptable level at the  
2 time, buried deposits of uranium, radium and  
3 thorium remained on the property. In the last 5  
4 years the Corps has removed some of this material  
5 under an interim action. However, material still  
6 remains to be addressed. And that material is the  
7 first part of what is being addressed in this  
8 Feasibility Study/Proposed Plan.

9 As I stated earlier, the Airport Site  
10 residues were purchased and moved to a storage  
11 site on Latty Avenue. And this is -- Latty Avenue  
12 is running this way right up here. And Highway  
13 170 is over here. So this is actually an area  
14 west of Highway 170 for those of you familiar with  
15 the area.

16 At the Latty site the material was dried  
17 and subsequently shipped out of state to a mill in  
18 Colorado. The property was sold, and the new  
19 owner, in preparing for the property for use,  
20 demolished one building, excavated portions of the  
21 property and paved areas. The excavated material  
22 was piled on the eastern part of this property.

23 In 1984 and 1985 the Department of  
24 Energy added additional material to this site.  
25 The material came up from cleanup action that

1 occurred along Latty Avenue in support of road and  
2 utility improvements in the area.

3 At this point, those large piles became  
4 known as the Hazelwood Interim Storage Site. And  
5 that's where the name HISS comes from out here,  
6 HISS, Hazelwood Interim Storage Site.

7 In the last 3 years, these large  
8 surfaces piles, which originally were located  
9 here, and you'll see them in some of the photos as  
10 being covered with a green -- what appears to be a  
11 green fabric, in the last 3 years these large  
12 surface piles were removed and shipped off site by  
13 the Corps of Engineers as an interim action.  
14 However, once again, subsurface soils remain to be  
15 addressed. And that's the second component that's  
16 addressed in the Feasibility Study/Proposed Plan.

17 So that's two of the three components.  
18 The third component is the Vicinity Properties.  
19 Now when the material was transported from the  
20 Airport Site to the Latty Avenue site, it was  
21 moved in uncovered trucks along roadways. We find  
22 it amusing. They found it standard practice.  
23 Material fell off of these trucks and into the  
24 roads and ditches along the road, contaminating  
25 several of the private properties located along

1 these transportation routes.

2 In addition to the spillage from the  
3 trucks, material migrated via wind and water from  
4 the Airport Site and Latty site onto adjacent  
5 properties and into Coldwater Creek. And these  
6 properties are identified in this map. This right  
7 there, that little funny looking wedge, is  
8 actually the Airport Site that you saw a photo of  
9 a moment earlier. This is Coldwater Creek, this  
10 little line there. And this area right here,  
11 there's Latty Avenue, and these are the Latty  
12 Avenue Properties.

13 And that is the third component that's  
14 being addressed by this Feasibility Study/Proposed  
15 Plan.

16 This slide presents a schematic  
17 breakdown if will you of the North St. Louis  
18 County site. There are three sites circled. And  
19 the circles indicate that those sites were placed  
20 on the Environmental Protection Agency's National  
21 Priority List. And because these three sites are  
22 on the National Priority List, the Corps has been  
23 working very closely with the Environmental  
24 Protection Agency and the State of Missouri to  
25 develop a Feasibility Study and Proposed Plan.

1 So what's in this Feasibility Study and  
2 Proposed Plan? Well, there are four primary  
3 objectives of the Feasibility Study and Proposed  
4 Plan and they are as follows:

5 The protection, first and foremost the  
6 protection of human health and the environment.  
7 Secondly, outlining a proposed approach for  
8 cleanup. Third, evaluating the various  
9 alternatives that have been identified. And  
10 fourth, minimizing adverse impact to the areas'  
11 businesses.

12 Now I'd like to briefly run through the  
13 six alternatives that are presented in those  
14 documents.

15 The first alternative is a no action  
16 alternative. This is a legal requirement that we  
17 have to include in the document. And essentially  
18 it is no action. None of the material would be  
19 removed or disturbed. What you're really talking  
20 about here is leaving everything as is and  
21 instituting periodic environmental monitoring to  
22 make sure that the material stays where it is.  
23 The cost for this is 1.5 million dollars.

24 The second alternative is partial  
25 excavation and capping at the Airport Site and at

the Latty Avenue HISS site. Again, a cap is essentially placing an engineered cover over the soil. What we're talking about with this alternative is excavating soils from the Vicinity Properties and disposing of them at an out of state licensed facility. The soils located at the Airport Site and the HISS Latty site would be capped. And institutional controls, such as fencing and deed restrictions and zoning, would be used to make sure that access was limited to those contaminated areas. The cost for this plan is 205 million dollars.

The third alternative is partial excavation and treatment. And treatment essentially is referring to soil sorting and soil washing. They're very limited technological tools that can be used to treat the rad (radioactively) contaminated material. Soil sorting is essentially separating the soil based on the amount of radioactive contamination. And soil washing is essentially washing the soil with liquid so that you remove the soluble contamination.

What we're talking about in alternative 3 is excavating the impacted soils from the

Vicinity Properties and the HISS Latty property, consolidating them, and treating them at the Airport Site. Then we would use institutional controls to limit access to the contaminated areas of the Airport Site. The cost for this alternative is 284 million dollars.

The fourth alternative is exclusively institutional controls. Institutional controls, such as I mentioned a minute ago, are deed restrictions, land use restrictions and zoning restrictions. And what their purpose is is to limit the future land use at those areas. These institutional controls would be applied at the Airport Site, the HISS Latty site, and for all of the Vicinity Properties. And the cost estimate for that is approximately 129 million dollars.

The fifth alternative is the preferred plan. So I'm not going to go into as much detail on that right now. But essentially what it is is excavation of impacted soils from the Airport Site, the HISS Latty site and the Vicinity Properties, and shipment off-site with institutional controls on areas that are difficult to access beneath roads, bridges, railroads and other permanent structures where contamination is

known to exist. The cost for that is 223 million. And again in a minute I'll address that in more detail.

The sixth alternative is excavation at all properties. It's very similar to alternative five except that institutional controls would not be applied and material underneath roads, railroads, bridges and permanent structures would be removed.

I'd like to point out that although this includes excavating under the roads, railroads, bridges and permanent structures, it assumes that the local municipality or land owner makes the soil available as a result of road improvements, building demolition or other types of activity and this may not occur until sometime in the future. The cost of 286 million only includes the cost for the Corps to go in, pick up the soil and dispose of that soil off site.

Now what I'll do is go into a little bit more detail with regard to alternative number 5. Alternative number 5 is the Corps's preferred plan. And what it consists of is excavating accessible radium, thorium, uranium contaminated soil to meet the following criteria:

Surface soils -- and surface soils are the first 6 inches of soil just so everyone kind of knows what the definitions are here -- surface soils and sediments would be remediated to a criteria of 5 picocuries per gram for radium, 14 picocuries per gram for thorium, and 50 picocuries per gram for uranium.

And just so everyone understands, a picocurie is the unit of measure that we apply to measure radioactivity in soils and sediment. And to give you an idea, a picocurie is 1 times 10 to the minus 12th curie, which is a decimal point and 11 zeros and a 1. Now that's kind of hard for most of us to fathom. So here's a visualization; imagine 6 Busch stadiums stacked one up on top of the other, 6 of them. Fill Busch stadium with white one-inch ping pong balls all the way up. And place 1 blue one in there. And that's one picocurie. That's the amount of measurement we're talking about in this case.

For subsurface soils and sediments the criteria would be implemented of 15 picocuries per gram of radium, 15 picocuries per gram of thorium, and 50 picocuries per gram of uranium.

Coldwater Creek sediment below the mean

1 water gradient -- and again, mean water gradient  
2 is a fancy way of saying the average water level  
3 in the creek -- those sediments would be  
4 remediated to criteria 15 picocuries per gram for  
5 radium, 43 picocuries per gram for thorium, and  
6 150 picocuries per gram for uranium.

7 These cleanup criteria are based on  
8 different exposure scenarios in ensuring that the  
9 cleanup is protective when completed. So, for  
10 example, on Coldwater Creek we went through a  
11 modeling analysis to make sure that a child  
12 playing in the creek would not be harmed by any  
13 material left behind. Or another example would be  
14 that if you plant a garden in your back yard and  
15 you grow tomatoes and you eat those tomatoes, you  
16 will not be harmed. Those kinds of scenarios are  
17 what are examined as a part of this analysis.

18 When the excavations are complete, the  
19 Corps would go back and sample the areas to ensure  
20 that the criteria have been met and to document  
21 the protectiveness of the site.

22 Inaccessible soils -- and by that we  
23 mean soils that are currently under cover, such as  
24 roads, bridges, railroads and structures -- would  
25 be addressed under this alternative with

1 institutional controls. Institutional controls  
2 would be put into place to ensure that these areas  
3 remain covered and continue to be used for their  
4 current purposes. For example, areas currently  
5 used for roads would continue to be used for roads  
6 in the future. These controls would be documented  
7 in a long-term stewardship plan which would be  
8 coordinated with the local, state and federal  
9 government entities involved, as well as the  
10 stakeholders.

11 The protected groundwater aquifer is not  
12 impacted by FUSRAP contaminants. However,  
13 groundwater monitoring is included in this  
14 alternative to assess the effectiveness of the  
15 remedial action and to ensure that the excavation  
16 itself does not create any problems.

17 Regarding structures, criteria is being  
18 developed based upon an equivalent dose from the 5  
19 picocurie per gram standard which is used for the  
20 radium in the soil.

21 All above-criteria soil and sediments  
22 would be sent out of state to a properly permitted  
23 disposal facility.

24 Finally, extensive personnel monitoring  
25 and site monitoring would be conducted during the

1 excavation to ensure that no contamination moves  
2 off of the site.

3 So that's what we have as our preferred  
4 alternative. And the question you may be asking  
5 yourself is why. When the Corps of Engineers  
6 examined all of the alternatives that were on the  
7 table, our analysis indicated that alternative 5  
8 actually best balances cost, permanence, which is  
9 another way of saying the degree of certainty that  
10 the plan will be successful, and the long-term  
11 effectiveness.

12 Alternative 5 is protective of human  
13 health and the environment. It's highly  
14 implementable from a technical and from an  
15 administrative standpoint. It's doable. It  
16 minimizes economic impact to businesses, utilities  
17 and communities. And it does not include on-site  
18 disposal which was previously rejected by the  
19 public.

20 Here are some important dates. First  
21 off, I'd like to point out that the public review  
22 period had originally been scheduled to conclude  
23 tomorrow, May 30th. We had a request from a  
24 public entity that we include a 45-day extension.  
25 And we are going to go ahead and follow up with

1 that. So the comments will not be due until the  
2 14th of July now. So the concluding date, if you  
3 have a newsletter you'll note on the back there's  
4 a sticker on there that indicates that the public  
5 review comment period has been extended until July  
6 14th.

7 However, this public meeting will be the  
8 final opportunity for furnishing oral comments  
9 officially. No additional hearings are scheduled  
10 before the 14th of July. However, written  
11 comments may still be submitted. And we'll talk  
12 in a moment about where you can send those to.  
13 The comments will be considered, and in  
14 conjunction with the United States Environmental  
15 Protection Agency, a Record of Decision which will  
16 identify the selected plan will be issued in early  
17 2004.

18 So what happens to your comments if you  
19 send us a letter, send us an e-mail or make an  
20 oral comment tonight. Well, we'll respond to each  
21 comment as we write the Record of Decision. And  
22 the way in which each comment is addressed will be  
23 recorded in a document entitled a responsiveness  
24 summary. Now the responsiveness summary is going  
25 to be an attachment to the Record of Decision.

1 And these documents will be available to the  
2 public in early 2004.

3 They will be available in a number of  
4 different ways. You can get the documents or any  
5 other information regarding FUSRAP from these  
6 sources; you can consult the web and this is the  
7 St. Louis District website. This will take --  
8 this specific address will take you right into the  
9 FUSRAP page. You can e-mail our public affairs  
10 officer, Jacque Mattingly, who is here at the  
11 table up here. You can visit or write us at the  
12 Latty Avenue office and this is our address. You  
13 can also visit the public library. This is the  
14 address for the city library. Our documents do go  
15 there. But they also go to several county  
16 libraries. And we have a list of which of those  
17 libraries they go to also. So if you would prefer  
18 to visit the county library you can do so and pick  
19 up the documents. Or you can call one of these  
20 phone numbers here and those are direct lines into  
21 the office.

22 Your thoughts are very important to us.  
23 So I encourage anyone, if you have any  
24 reservations or just questions, to send them in.  
25 We would very much like to hear what you have to

1 say. And use any of those methods that I  
2 previously identified. They will all work. We  
3 will get back to you.

4 And having said that, I think I'll turn  
5 it back over to Charlotte and Charlotte is going  
6 to start the oral comment period.

7 FACILITATOR O'NEIL: I've been provided  
8 a list of everyone who signed up expressing a  
9 desire to speak. I'll call you one at a time, and  
10 when I call you if you would come around and down  
11 this side to the microphone. Be sure you can be  
12 heard. Introduce yourself. Make your comments  
13 and then go on back to your seat around that way.  
14 Does anyone have any questions?

15 WOMAN IN AUDIENCE: Yes. Will we be  
16 hearing from any other groups tonight  
17 informationally like MDNR or EPA or are they  
18 scheduled to speak or is this just open to the  
19 citizens right now?

20 FACILITATOR O'NEIL: It's open to  
21 anyone.

22 MR. WERNER: We came prepared with our  
23 analysis.

24 WOMAN IN AUDIENCE: Well, I had a  
25 question and I don't know that it would be

1 pertinent if I heard from them. I just wondered  
2 if it would be more useful to hear from whoever  
3 has anything to say from our agencies so that we  
4 could then maybe make more sense, make more  
5 intelligent comments.

6 FACILITATOR O'NEIL: That makes sense.  
7 Is that all right with you? Jim Werner from the  
8 Missouri Department of Natural Resources.

9 MR. WERNER: Thank you very much. I  
10 think we heard a very good presentation, an  
11 overview of the plan.

12 The Department of Natural Resources has  
13 a special role, as many of you know, as an  
14 independent technical reviewer of the plan here.  
15 And I just want to outline that. Then I want to  
16 talk a little bit about what I think we've  
17 accomplished all together and then go into the  
18 comments.

19 The Department of Natural Resources as a  
20 state regulator has been involved in this site  
21 since the beginning. And as many of you know,  
22 because it's a federally -- it's a federal cleanup  
23 responsibility, that is, the Army Corps of  
24 Engineers is dealing with what is a Department of  
25 Energy waste product, the EPA doesn't have the

1 normal regulatory role because of something called  
2 the unitary executive theory where one federal  
3 agency is not allowed to regulate another federal  
4 agency in a normal manner.

5 So that means the state government takes  
6 on I think an added burden, an added  
7 responsibility here, and we have been doing that  
8 for nearly 20 years now. My role in this has gone  
9 back I think 15 years.

10 Sharon I think aptly provided you a time  
11 line. I'm not sure if people appreciated the time  
12 line and how important tonight is as part of that  
13 time line. Again, 1942 the first uranium was  
14 extracted here in St. Louis that went to the  
15 Enrico Fermi reactor in Chicago. In 1986 the  
16 FUSRAP program begins. In 1994 the critical  
17 decision is made to not entomb the waste but  
18 rather to clean up the waste. In 1997 the  
19 decision is made to turn the program over from the  
20 Department of Energy to the Corps of Engineers.  
21 And now here we are tonight in 2003.

22 So I think it's an extraordinarily  
23 important historic landmark that you should keep  
24 in mind as we go down this road. I guess one of  
25 the first comments in terms of process I might



offer is rather than have this be really the last opportunity for a public involvement process, that assuming that the cleanup plan goes forward and is funded and all, and then things go and the cleanup occurs, that we don't just step off into infinity forever and this is the last time the public has an opportunity to speak on it. But rather that we circle around when the cleanup is done and that we review the cleanup that's been accomplished, and then have an opportunity for public comments before the hand-off is made between the Corps of Engineers to the Department of Energy.

There are an enormous number of questions to be answered once we assess what the results of the cleanup are and then how are we going to handle it here on in. Because as you appreciate, this is not only a public health question, but really a community development question. How will the community be able to live with whatever residual radioactivity exists under the roadways or whatever is left. I think the community is going to continue to need input on how that is done. It's just extraordinary just from my perspective having been involved in this for quite some time. So that would be the first

comment in terms of process.

Let me, before I get into the comment, also let you know, Colonel, you've been here, we met when you first arrived at the district. This is a district that will do you proud. This is a site that some of you have been involved in that languished for quite some time. Nothing happened for too long. And there's a lot of impatience and people have been more than patient about the movement of the soil.

The Corps got involved, and the Corps knows how to move dirt. And the Corps has done that. And resulted in a lot of action that didn't occur before. So from my experience having been involved for 15 years, I can look at the patterns, and the Corps has really accomplished a great deal up 'til now. And I think that's something for the Corps to be proud of. However, we're now faced with this decision dealing with the cleanup criteria.

I'd also from an historical perspective, Dan, I remember being in meetings with you where 5 and 15 was just another item on the list here. Here we are in 2003 where 5 and 15 is what's before us. 5 and 15 is not complete background

greenfield cleanup, but it is the best cleanup that has been -- it's the best standard that has been involved at that time. So the fact that we're here now is also a credit to this process. Not to get involved in that too much, but I know you guys worked very hard on that and it's a credit to you.

Finally, I want to give a lot of credit to the citizens here. Colonel, you talked briefly about the important role of citizen input. But this has been a poster child for citizen input. Sally Price. Kay Drey. Sally mentioned that her son was 2 years old when she started this process and he just graduated from high school. I hate to think of how much hair I used to have when I started this process. But these folks have been at it a long time. They've been involved. They're not getting paid for this. So I think that an enormous amount of credit goes to them.

Having said that, giving a lot of credit where credit is due, we are here tonight to consider not only the decision about cleanup criteria and the options that Sharon may have, but trying to address you know, how do you deal with implementation, how do you deal with the number of

questions left. There's a number of issues and I'm not going to go into them in detail. I'll just try to tick off some of the issues we still need to deal with.

I guess first in terms of the overall format, I guess the plan that many people have in a sense is only half a plan, because the plan is dependent on the subsequent long-term stewardship. And the long-term stewardship hasn't been dealt with. It's like the third leg of the stool. And the long-term success of the plan is going to be dependent on the long-term effectiveness of the stewardship plan.

And I know that you said the current understanding is that the Department of Energy will take that over. But clearly, for anybody who's been following it, there's a lot of uncertainty about the Department of Energy activity in that area. There's been several reorganizations that have gone on. There's no longer a long-term stewardship office as of the next fiscal year in the Environmental Management Program. It's now subsumed within a new office. I don't know what the funding or responsibility is. There are a whole lot of questions about how

1 that will work. Again that's why I think we need  
2 to cycle back on that.

3 So as much work that has gone on into  
4 this, it's directly dependent on the long-term  
5 stewardship plan and we'll need to see some more  
6 work done on that.

7 But, remember, that this is a unique  
8 circumstance that the Department of Energy has not  
9 dealt with very often. This is generally not  
10 federal property we're talking about. This is  
11 private property for the most part. Whereas a lot  
12 of the Department of Energy facilities is  
13 government owned, contracted out facilities. And  
14 there's a whole world of difference in terms of  
15 how you manage it and the assumptions you make in  
16 terms of long-term stewardship.

17 Even down to the standards, 5, 15  
18 picocuries, all those standards, a lot of them  
19 were developed where you had government-owned  
20 property, not privately owned property. And I  
21 think that needs to be considered. And I know you  
22 guys may know that, but there's got to be some  
23 internal process on the implications of that,  
24 particularly inviting the land owners and the  
25 community development as they consider future use.

1 WOMAN IN AUDIENCE: Could you be a  
2 little louder for us old people?

3 MR. WERNER: Sure. Sort of just to  
4 summarize what could really be the topic of  
5 another meeting, -- and I suggest that it should  
6 be in the future -- the whole long-term  
7 stewardship issue. The sort of language that I  
8 think might be very useful to the community here  
9 could really be cribbed from what the Corps has  
10 done at downtown sites to address long-term  
11 stewardship. And I think that provides a good  
12 point of departure that you've worked with  
13 Mallinckrodt on that sort of language for  
14 long-term stewardship.

15 The soil and the groundwater of course  
16 offer very special and different circumstances.  
17 We're talking generally here of 5/15 in the soil,  
18 5 picocuries per gram for the top 6 inches, 15  
19 picocuries per gram for 6 inches and below. So  
20 obviously it's not a walk-away standard if you  
21 only meet 5 and 15 because anything below 6 inches  
22 has to be -- you have to deal with that with a  
23 different land use obviously. That's just  
24 implicit in the way the standard is designed.

25 However, it doesn't necessarily mean

1 that every 5 and 15 cleanup will require long-term  
2 stewardship. Our sense is that it's possible to  
3 implement this in a way that will result in an  
4 unrestricted use cleanup. That's why it's  
5 important that the long-term stewardship post  
6 remediation risk assessment be done carefully,  
7 really an integral part of the cleanup, not to  
8 particularly stand alone. And I think that many  
9 of the aspects incorporate that in the current  
10 plan.

11 Finally, the groundwater question.  
12 Right now the plan appears in some cases to  
13 suggest that the groundwater will not be monitored  
14 for long term. We believe that it's prudent to  
15 assume monitoring unless you can demonstrate on  
16 line that it's not required. I think it's  
17 possible to do that. But right now I don't think  
18 we can assume that the groundwater monitoring will  
19 not be required. That's to be seen.

20 Finally, the roads, the assumption in  
21 the plan is that the roads are permanently  
22 inaccessible. That's not necessarily a reasonable  
23 plan because of road repairs and changes. And you  
24 can look down the road here about 100 yards and  
25 see changes in roads going on all around us.

1 Again, it goes back to how we deal with the  
2 institutional controls for long-term stewardship  
3 if it's not fully integrated in that or there's  
4 funding for it. Who is going to pay for when a  
5 roadway changes in the future and how is that  
6 going to be incorporated. That's not something  
7 that the Department of Energy has generally dealt  
8 with with many of the sites they've done in the  
9 past where you have these very remote uranium  
10 sites largely in the western United States for the  
11 most part.

12 Finally, buildings contamination. There  
13 are some concerns about we know at least some  
14 buildings have identified the contamination. Most  
15 of the plan deals with just soil. So I think we  
16 need some more attention to what process will be  
17 used for dealing with contaminated buildings. For  
18 example, when you replace a roof on a building and  
19 find out all your roofing shingles are  
20 contaminated with uranium. How do you deal with  
21 it, how do you monitor it. That has to be part of  
22 the plan and the long-term stewardship.

23 And finally, as to the cleanup,  
24 Missouri, as many states do, has policies no rad  
25 added in landfills or for backfill for

1 landscaping. And already in the United States  
2 we've paid hundreds of millions of dollars for  
3 cleaning up sites where people move radioactivity  
4 from one site for a cleanup and then it got used  
5 for landscaping in other areas and then the  
6 landscaped areas had to be cleaned up again and  
7 spend more money and more time dealing with that.

8 Downtown Grand Junction actually is a  
9 beautiful downtown because of all the additional  
10 landscaping that was done to put in nice  
11 pedestrian ways because of the contaminated soil  
12 that was found in the area. It's not something I  
13 think the community wants to go through here.  
14 It's a low criteria contaminated soil that we can  
15 dispose of in an appropriate way and not use it as  
16 backfill or in a landfill.

17 The Corps has addressed doing an  
18 ecological risk assessment for Coldwater Creek.  
19 We believe that a more rigorous job technically  
20 needs to be done with regard to risk assessment  
21 and focus on the special concerns regarding  
22 Coldwater Creek.

23 Finally, the Corps has appended what's  
24 known technically as an applicable or relevant and  
25 appropriate requirements and feasibility study.

1 And it's not clear that we agree with their  
2 analysis there. That's something we'll be  
3 commenting on in the future.

4 I appreciate the opportunity to comment  
5 and applaud you for the hard work and the long  
6 distance you traveled. Wish you Godspeed and  
7 we'll be with you for the rest of the journey  
8 because it's still a ways to go as we all address  
9 this. And particularly applaud the citizens who  
10 have been with it for this long. And we'll keep  
11 doing our job since you guys have been with us for  
12 this long. Thank you.

13 (applause)

14 FACILITATOR O'NEIL: Okay. The first  
15 speaker I have is Sandy Delcoure. Please forgive  
16 me if I pronounce your name wrong. I'm good at  
17 Irish names only.

18 MS. DELCOURS: Good evening. Can  
19 everybody hear? My name is Sandy Delcours and I  
20 live on Coldwater Creek. There's tremendous  
21 increasing development along the creek that will  
22 add to future flooding along the creek. Dust from  
23 radioactive creek sediment deposited along the  
24 creek's banks from the rise and fall of the water  
25 can become airborne, give off radon gas and be

1 inhaled. This is why it is important that  
2 Coldwater Creek be given attention and be cleaned  
3 up where it's contaminated.

4 Coldwater Creek is an urban stream with  
5 homes, schools, churches, businesses and parks all  
6 along its banks. Children play along the creek's  
7 banks right up to the edge of the water. It would  
8 be very much appreciated if Coldwater Creek were  
9 checked and made safe for the community. And from  
10 what I've heard, it sounds like you are really  
11 doing a good job and trying to do that. Thank you  
12 very much.

13 (applause)

14 FACILITATOR O'NEIL: Alf Stole.

15 MR. STOLE: Evening. My name is Alf  
16 Stole and I'm a citizen of Bridgeton.

17 It is good to see that the Corps of  
18 Engineers has taken an active and leading role in  
19 removing the waste from the various sites in the  
20 North County. When we saw the picture a while ago  
21 we heard that the waste originated in St. Louis.  
22 It was moved to a site next to the airport. From  
23 there it was moved to Hazelwood to Latty Avenue.  
24 And as I understand it, it was moved from that  
25 place and some of it was moved to the Westlake

1 Landfill in Bridgeton where I live.

2 I was on the City Council in 1973 when  
3 this took place. I also served as a mayor for  
4 four years shortly thereafter. But I don't  
5 understand why this was done. It doesn't seem  
6 right to move this material so much around. And  
7 now quite a bit, I understand as much as 170,000  
8 tons of radioactive material is located in the  
9 Westlake Landfill in Bridgeton. And this is also  
10 in the Missouri River watershed. And some of it  
11 could possibly move from this landfill and get  
12 into the water in that Missouri River plain.

13 So what I'd like to see is that the  
14 Corps of Engineers would take over the  
15 responsibility and the lead to move on getting the  
16 radioactive material out of our city, out of  
17 Westlake Landfill.

18 And thank you very much, all of you, for  
19 listening to me.

20 (applause)

21 FACILITATOR O'NEIL: Byron Clemens.

22 MR. CLEMENS: My name is Byron Clemens.  
23 I live at Redacted - Privacy Act . My zip  
24 code is Redacted - Privacy Act

25 I too applaud the action that's come

1 from the Corps of Engineers as opposed to the  
2 Department of Energy that sat on these wastes for  
3 so long and did little to nothing.

4 I'm a member of the Coalition for the  
5 Environment. I've been actively studying,  
6 testifying, suggesting, hoping, that all of the  
7 waste, all the U.S. government's waste, these are  
8 not our wastes, they belong to our government, be  
9 moved from all of the St. Louis FUSRAP dumps since  
10 1979 is the first time I took any action on this.

11 A friend of mine who is a St. Louis city  
12 police officer came to me as an environmentalist  
13 and said they want to put a police driver training  
14 school on top of the Airport Site, is that a good  
15 idea. And I read the plan and looked at the site  
16 and came back to him and said no, I don't think  
17 that's a very good idea, as a matter of fact they  
18 should clean up the site. It's a ludicrous place  
19 to have a radioactive waste site. It's in contact  
20 with groundwater with Coldwater Creek. It's on a  
21 floodplain across from the Khourey League Baseball  
22 Field. Then when I looked at the plan, some of  
23 the highest radiation sites around there were  
24 outside of the site, in a ditch along McDonnell  
25 Boulevard, on the Khourey league field itself it

1 had some hot spots.

2 That was when I found out about the  
3 Latty Avenue site. At that time the site was  
4 unfenced and had no signs. I went to a hearing  
5 with the Department of Energy, the NRC, the EPA  
6 and DNR, they were all there. And people asked  
7 about the kids who were playing on top of the  
8 uranium mill tailings at the site, riding their  
9 dirt bikes up and down. And no one would say they  
10 would fence the site or put up signs. So I and  
11 two of my friends went out and put up signs at  
12 this site. Soon they found the money to fence the  
13 site and start monitoring.

14 There's uranium, thorium, radium and  
15 radon at the site, all the daughter products. We  
16 all know the litany of the ballfields, Coldwater  
17 Creek itself, the sediment which had 10 times  
18 background radiation in the sediment of Coldwater  
19 Creek, the industrial sites.

20 I grew up along Coldwater Creek. My  
21 father worked for McDonnell Douglas which is now  
22 Boeing. The ventilation for his building came  
23 from off the site.

24 There's been a long history -- and one  
25 of my concerns is voiced by the gentleman from DNR

1 is what happens after the site is cleaned up. The  
2 history up to this point about funding, switching  
3 titles from the City of St. Louis, quit claim  
4 deeds, who owned the site at that time, what will  
5 happen later on. And I don't think the history of  
6 institutional accountability up until this point  
7 has been very credible.

8 I think the site for any remaining  
9 wastes, it's still in a populated area. It's  
10 still in a 100 year floodplain. There's still  
11 bubbling springs on the site and near it. I think  
12 any possibility of future contamination of  
13 drinking water and children would say that  
14 alternative 6 is the best one to remove all the  
15 waste from the site, including the stuff from  
16 Westlake Landfill.

17 And I would like to see after the site  
18 is cleaned up that it's clear who has the  
19 responsibility and ownership, and that it have  
20 independent monitoring outside of -- you know, for  
21 example, I think the Corps of Engineers, if they  
22 could do oversight along with the DOE, if the DOE  
23 is taking over these sites again, I'd prefer that  
24 wasn't the possibility, but I'd really like to see  
25 plans for what future monitoring will be.

1 And this history has been somewhat  
2 personal on some levels. I've gone to these  
3 hearings, there was a man in this building who had  
4 a colostomy bag. He said his family had a family  
5 farm, had taken water from Coldwater Creek and had  
6 a well, they used it for irrigating their farm but  
7 they drank the water all the time. Both he and  
8 his father had cancer.

9 At a hearing, I guess this was in '97 at  
10 the Clayton Hotel, there was a young woman who sat  
11 next to me who said her little boy was 6 years  
12 old, had childhood leukemia. I think she lived on  
13 Nyflot. I believe that's site 41 up on the map  
14 there. She said there was a cluster of leukemia  
15 with kids in grade schools in that area that was  
16 all contaminated by the trucks that you talked  
17 about that had no coverings as they went back and  
18 forth.

19 I met some Mallinckrodt workers who  
20 worked down at Broadway and Destrehan were all  
21 exposed to this waste. So, you know, 60 years of  
22 the St. Louis area putting up with this, it's time  
23 to relieve us of this waste. And we do appreciate  
24 that we're getting closer.

25 I looked at the plan today and page 10

1 of the Corps's proposed plan says: Coldwater  
2 Creek is not significantly impacted. I don't  
3 agree with that. I think there's previous studies  
4 that show that it is impacted on and I think it  
5 needs a lot of remediation. I hope that would be  
6 part of the final plan. And the uranium itself we  
7 know is Belgian Congo pitchblende. That's a  
8 higher level of uranium 238. It wasn't refined  
9 very well.

10 So I know there's still hot spots. I  
11 have faith that you guys are going to do a good  
12 job of trying to find those spots. But I think  
13 some of them could be in those institutional areas  
14 we're talking about, roads, bridges, the sediment  
15 of the creek. And I really hope before anyone  
16 walks away from responsibility that we really  
17 thoroughly document the area.

18 Page 12 of the plan admits its CERCLA  
19 risk range could be exceeded at many of the sites  
20 in the future. And I think that's a real issue.  
21 I think the only acceptable alternative other than  
22 removing these wastes to DOE's Headquarters in  
23 Washington is number six. And I would include the  
24 Westlake Landfill site which I believe was  
25 illegally dumped under an NRC license by B & K

1 Construction Company.

2 All the sites should be cleaned up to as  
3 low as technologically feasible. Once again, I  
4 have to say 60 years has been a long time for this  
5 area to be exposed.

6 And I would like one more thing, looking  
7 at that creek again, could we possibly look at the  
8 same criteria of 5/15 picocuries in the sediment  
9 of the creek for the entire length of the creek,  
10 is that a possibility. Thank you very much.

11 (applause)

12 FACILITATOR O'NEIL: Fran Sontag.

13 MS. SONTAG: Hi. My name is Fran  
14 Sontag. Let me say at the outset that the cleanup  
15 of the contaminated sites which has already been  
16 done is greatly appreciated. And your interest in  
17 continuing to do a good job is evidenced by this  
18 meeting.

19 However, I have some concerns which I  
20 feel need to be addressed. These involve  
21 answering a question which you could call how  
22 clean is clean. And it's, you know, kind of a  
23 judgment call there.

24 Since these sites are in highly  
25 populated urban areas, and since the way we answer

1 the question will affect our children and  
2 grandchildren for hundreds and thousands of  
3 centuries, I feel strongly that we should go for  
4 the cleanest clean which is possible.

5 And I choose the word possible rather  
6 than feasible because I do not think we should  
7 take the easy route in a manner which will have  
8 consequences which last longer and are more  
9 serious than we really would like to imagine.

10 A big problem factor is that Coldwater  
11 Creek runs through the area. And during and after  
12 a flood, sediment is spread over a wide area  
13 outside the creek banks. Then after the water  
14 subsides, this contaminated soil would naturally  
15 tend to erode and get dry and blow about over an  
16 even wider area. And then the next flood and  
17 drought cycle would spread the dangerous stuff  
18 more, and so on and so on, for a long, long time.

19 So I hope you can see my logic of  
20 removing as much as humanly possible now while  
21 it's relatively close to where we can identify it  
22 and deal with it. Because this dust is not just  
23 any dust. As we've mentioned a number of times,  
24 it contains uranium and thorium and radium  
25 particles. And these eventually break down into

1 radon gas. And this gas or the dust containing  
2 these particles is inhaled. It gives off  
3 radioactive particles and rays within one's body  
4 which cause havoc of all kinds. These are  
5 especially damaging to children I think. And I'm  
6 a grandmother of 9 and I have concerns for their  
7 future, and even more immediate concerns for the  
8 families who are really living close to these  
9 dangerous sites.

10 So I would urge you to dig more deeply  
11 all along Coldwater Creek and its bank for quite  
12 some distance. And when you finish that, I guess  
13 you would include this, remove the gabion wall or  
14 whatever that is, that rocks and chickenwire which  
15 is there now and replace it with something more  
16 permanent which can be monitored for nuclear  
17 contamination regularly on and on into the future.

18 I would urge you to dig more deeply  
19 where the big piles of contaminated soil have  
20 already been removed. Maybe somebody just said  
21 that they were going to do that, I'm not sure.  
22 Because surely some has already leached into the  
23 underlying soil.

24 And one more thing. I visited that site  
25 fairly recently and I felt like it was very poorly

1 marked. It's almost indistinguishable from the  
2 many industrial sites that are really close by.  
3 Perhaps some larger, more colorful and clearer  
4 signs would give a better warning to the  
5 uninformed visitor that this is a real hazardous  
6 waste site.

7 I thank you for the consideration of my  
8 concerns, and one more time would urge you to do  
9 the right thing and do a really thorough job.

10 Thank you.

11 (applause)

12 FACILITATOR O'NEIL: Kay Drey.

13 MS. DREY: First, I have to find my  
14 legible copy. I was hoping I'd be all at the end  
15 and then I'd have everything nice.

16 My name is Kay Drey. I live at Redacted - Privacy Act

17  
18 In April 1942 the United States  
19 government contracted with Mallinckrodt Chemical  
20 Works to purify tons of uranium needed for the  
21 highly secretive goal of creating an atom bomb.  
22 In only 50 days Mallinckrodt was successful and  
23 went on to purify all the uranium used in the  
24 world's first self-sustaining nuclear chain reaction  
25 in Chicago on December 2nd, 1942.

1 The atomic age was born, and so was  
2 nuclear waste. But as I have said often, after  
3 first learning in 1978 about St. Louis's pivotal  
4 role, the brilliant scientists who carried us into  
5 the atomic age were never asked if they could get  
6 us out.

7 Mallinckrodt processed uranium at its  
8 downtown plant for 15 years, and then for about  
9 another 10 years at Weldon Springs in St. Charles.  
10 More than a billion dollars have already been  
11 expended trying to clean up the radioactive wastes  
12 that were generated as the result of  
13 Mallinckrodt's 25 year participation in the  
14 production of nuclear weapons for the Manhattan  
15 Project and the Cold War, and as the result of the  
16 36 years since then during which these wastes have  
17 eroded, leached, blown and spilled throughout our  
18 metropolitan community.

19 I'm here tonight to urge the Corps of  
20 Engineers to seek the funding first to undertake a  
21 thorough radiological survey to evaluate the  
22 groundwater, surface water and lands known or  
23 suspected to be contaminated using the best  
24 available technology, and then to seek funding to  
25 clean up all those sites that exceed the 5/15

1 picocurie standard where the public currently has  
2 access or is expected to have access in the  
3 foreseeable future, including the sites from which  
4 contamination will continue to migrate onto  
5 accessible land and water. And also to seek  
6 funding for the exhumation, transport and disposal  
7 of the wastes, removing them from our densely  
8 populated urban area situated where creeks and  
9 rivers flow and overflow, threatening the further  
10 dispersal of the contamination.

11 The proposed final remedy for the North  
12 County site should be as final as our state of the  
13 art monitoring, extraction, isolation and  
14 transport technologies can provide. And should be  
15 based on standards that reflect today's knowledge  
16 of the hazards and risks of those wastes into the  
17 far distant future.

18 I always -- just it's mindboggling to me  
19 to think that uranium 238, the predominant  
20 material here, has a half life of 4 and a half  
21 billion years. You have to multiply that times  
22 10.

23 I guess one of my main concerns is  
24 Westlake Landfill which has been mentioned this  
25 evening. It's only I think -- I'm sorry, I left

1 the numbers at home, the river miles -- but I  
2 believe it's about 6 miles, maybe it's a little  
3 more than that, upstream from the North County  
4 drinking water treatment plant in Florissant. I  
5 think it's Howdershell Road. Coldwater Creek  
6 meanders through residential neighborhoods, past  
7 parks, churches and so forth.

8 It is -- I'm sorry, I'm getting a little  
9 confused. Now I want to talk about Coldwater  
10 Creek. Okay, Westlake Landfill impacts upon the  
11 Missouri River upstream from where the Florissant  
12 drinking water in-take is. And then the Coldwater  
13 Creek concern is very basic to all of us. I think  
14 we all would like the creek cleaned up as well as  
15 possible. I think it's even hard to monitor it  
16 accurately. But it does flow through populated  
17 areas, past schools and churches and homes. And I  
18 just think that, as the speaker right before me  
19 said, it's going to continue transporting all  
20 these wastes.

21 I think the gabion wall at the west end  
22 of the Airport Site should be removed and not, I  
23 don't know, washed off. I was talking to somebody  
24 earlier this evening. I think it should just  
25 plain be removed. The gabion wall is chickenwire

1 with rock in it. But they put it onto the land  
2 right where it's extremely contaminated, very high  
3 levels of radioactivity when they installed the  
4 gabion wall.

5 And I at the time said that I felt that  
6 not only were they badly exposing workers with no  
7 protective clothing, a little bit of some overalls  
8 but that was about it, no breathing apparatus, but  
9 I said why are you putting this stuff into this  
10 contaminated shoreline along Coldwater Creek when  
11 you know this is very, very highly radioactive  
12 dirt. And I knew they would have to remove it  
13 some day. Well, I certainly hope now that that  
14 time has come that they will remove the gabion  
15 wall because it is highly -- it is filled with  
16 sludge and so forth from the Airport Site.

17 I think even to hint at using  
18 institutional controls for anything would just be  
19 a laugh when you're talking about half lives that  
20 we're talking about. I mean the paper won't even  
21 last for 25 years that the institutional controls  
22 are written on. And I have wonderful documents at  
23 home that the Department of Energy and other  
24 agencies have paid for that are entitled things  
25 like how to communicate with people 300

1 generations from now.

2 And this is just supposedly the only  
3 requirement for these sites is to have a 1,000  
4 year protection or at least 200 years. I've never  
5 understood that sentence. But I think when you're  
6 talking about the materials that are as hazardous  
7 for as long as ours are, institutional controls  
8 and 1,000 years are just not acceptable.

9 I guess I should say that my number one  
10 wish is that we should stop generating more of  
11 this stuff until we figure out what to do with the  
12 first 61-year accumulation that we already have.

13 (applause)

14 I do want to say that I realize -- I  
15 unfortunately didn't write down, I think it was  
16 Sharon Cotner who did something about the baseball  
17 stadium filled with something like ping pong balls  
18 or something. I was trying to do something else  
19 at the same time. And then there would be one  
20 ball that would be blue or something and it would  
21 be a picocurie.

22 Please don't discount picocuries. I'm  
23 not saying this to Sharon Cotner but to all of us.  
24 We should realize that, A, a picocurie gives off  
25 2.22 radiation particles or rays, disintegration,

1 2.22 every minute. And when we have materials as  
2 highly radioactive as we have, that's a lot of  
3 radiation particles to have to be concerned about.  
4 Particularly again going back to Coldwater Creek  
5 when you're talking about water that can overflow  
6 into people's backyards where they have gardens  
7 perhaps with vegetables.

8 Because another concern about our St.  
9 Louis sites is that we have a lot of alpha  
10 emitters, alpha radiation. And some people say  
11 well, alpha radiation is no big deal, it can't  
12 even penetrate a piece of Kleenex. However, if  
13 you inhale uranium, thorium, radium, radon gas and  
14 so forth, and that gets into your system, into  
15 your lungs, for instance, and those materials give  
16 off alpha particles, an alpha particle is  
17 considered, even by the Nuclear Regulatory  
18 Commission that likes all radioactivity, an alpha  
19 particle is considered 20 times more hazardous  
20 than beta or gamma. So a picocurie of  
21 alpha-emitting radiation is not insignificant.

22 And I guess I just want to sort of  
23 repeat again that our -- we have been involved in  
24 the creation of materials for nuclear weapons.  
25 Our nation is the only nation fortunately to date,

1 I mean it's good no one else has done this, but  
2 our nation is the only nation that has used atomic  
3 weapons of mass destruction against real people.

4 We all hope of course that this will  
5 never have to happen again. But I think the  
6 ultimate irony of continuing to have to deal with  
7 these materials is that we are -- we have been  
8 killing our own as a wonderful book is called.

9 And now the administration in  
10 Washington, D.C., if you can call it an  
11 administration, is proposing to generate more  
12 nuclear weapons and test them. And I think that  
13 is just an outrage.

14 So let's try -- and I do also join with  
15 the others in thanking the Corps of Engineers for  
16 working as hard as they are working. I hope they  
17 take good care of the workers. I continue to  
18 worry about the people who are cleaning up these  
19 materials.

20 I will just add one fact that I've been  
21 hearing from one man who is dying who worked at  
22 the downtown site, the Mallinckrodt site. In  
23 nature you may be exposed to let's just say 10 or  
24 even 20 counts per minute, radiation particles per  
25 minute in natural background. And he was, in the



1 work he was doing, digging below the ground at  
2 downtown Mallinckrodt, he was exposed to a  
3 1,300,000 counts per minute.

4 So this is hot stuff. It's dirty stuff.  
5 And let's get on with the cleanup. Thank you.  
6 (applause)

7 FACILITATOR O'NEIL: Rebecca Wright.

8 MS. WRIGHT: My name is Rebecca Wright  
9 and I live in the City of St. Louis on Rutger  
10 Street.

11 Much of the radioactive waste has been  
12 removed from the North County site, including  
13 contaminated soils and other materials from the  
14 various sites, and the radioactive materials have  
15 been shipped to facilities in Utah and Idaho.  
16 That in itself is a tremendous accomplishment.  
17 Even though the waste still exists, hopefully it  
18 is and will remain isolated, and hopefully no  
19 workers were exposed to radiation in the cleanup  
20 process or the storage process or ever.

21 However, now it is important to complete  
22 the task. Many areas in the North County site,  
23 including Westlake Landfill, still have surface  
24 and subsoil contamination and sediments that  
25 contain high levels of radium, thorium, uranium,

1 protactinium and actinium. Some of these elements  
2 will emit radioactive particles for millions of  
3 years and have the potential to be taken up by  
4 plants and to poison or mutate human beings and  
5 animals now and virtually forever.

6 Perhaps long after institutional  
7 controls, origins and presence of the waste will  
8 fade from recorded history. That's why all of the  
9 remaining contaminated materials should be removed  
10 as soon as possible while there are still means  
11 and funding and the will to do the job before the  
12 contamination spreads and affects present and  
13 future generations.

14 I urge the Army Corps of Engineers to  
15 press for the most complete and technologically  
16 feasible cleanup of these wastes. And this should  
17 include excavation and removal of all the  
18 contaminated material from all the sites, and  
19 include appropriate monitoring of a site before,  
20 during and after cleanup, and include cleanup of  
21 the inaccessible sites as soon as possible, and to  
22 include cleanup of Coldwater Creek, banks and  
23 sediment to a 5/15 standard because of floods and  
24 the water levels and the potential to spread the  
25 contamination. Thank you.

1 (applause)

2 FACILITATOR O'NEIL: Sally Price.

3 MS. PRICE: Good evening. I would like  
4 to just first mention that I became involved in  
5 this issue at the radiological contamination at  
6 the Airport Site as the result of my son's  
7 activities playing in the creek when he was 10  
8 which was quite a while ago at this point as Jim  
9 Werner said.

10 But at any rate, I also want to mention  
11 to my fellow citizens here tonight that I have  
12 served on the task force that was sponsored by the  
13 Department of Energy, and subsequent to that the  
14 Oversight Committee that is sponsored now by the  
15 Corps.

16 So because of my activities on those two  
17 community groups, I've been pretty well informed  
18 about what's been going on and processes that have  
19 been used to clean up to this point. And I also  
20 want to echo the remarks and I applaud the Corps  
21 for the cleanup that they have accomplished.

22 Tonight I do have a couple of comments,  
23 and I must say I haven't had a lot of time to  
24 totally in depth look through the document, but  
25 from what I can glean with what I have looked at,

1 my questions or comments tonight concern the  
2 creek.

3 First, in my review it appears that the  
4 radiological analysis that was done last was done  
5 in June of 1999, and that it was kind of  
6 subsequent to data that was done through the 80's  
7 and 90's as stated in the document.

8 My comment is that in view of all the  
9 construction that's happened along the creek side  
10 at the SLAPS area and again at HISS where they  
11 removed the piles, much to our delight, perhaps  
12 the sediment finding analysis would be different  
13 today than it was in June of 1999. Certainly  
14 different than what it had been in the early 90's.

15 The risks and assessments that have been  
16 done to calculate this idea of below the mean  
17 water gradient appear from what I can see to be  
18 based on numbers of those dates. So I question  
19 whether that's, you know, the most accurate, and  
20 maybe there is a shortcoming in that analysis. So  
21 I am asking for a re-evaluation of that or a  
22 response on that.

23 The second point is that this mean water  
24 gradient, the application of that to this cleanup  
25 where you're going to clean a certain level above



1 this and a certain different level below it, seems  
2 to me to be logical but not practical. And the  
3 reason I don't believe it's practical is because I  
4 can recall how my son dug rocks and golf balls out  
5 of the middle of the creek bed. And a 10 year old  
6 child who is always drawn to creeks will not know  
7 where that invisible line is. And so that's my  
8 concern about the logic of using that kind of a  
9 process to this cleanup.

10 So I've been satisfied with the SLAPS.  
11 I think the HISS has gone well. It's just the  
12 creek is what affects this community. And it  
13 affects everybody. And I don't think there's been  
14 enough addressed to give me the assurance that  
15 safety has been ensured. Thank you.

16 (applause)

17 FACILITATOR O'NEIL: Sally Price.

18 SOMEONE FROM AUDIENCE: That was her.

19 FACILITATOR O'NEIL: Pamela Todorovich.

20 MS. TODOROVICH: I'm Pamela Todorovich.  
21 I live in St. Louis County.

22 For about 60 years people in North  
23 County have been unknowingly exposed to the  
24 radiation in this area. As a child my family  
25 lived in Berkeley. We traveled Brown Road, now

1 called McDonnell Boulevard, often. We played in  
2 Coldwater Creek. We went to school at St.  
3 Bartholomew's on Latty Avenue.

4 There was a time when the public didn't  
5 understand the true dangers of radiation. A time  
6 when children were encouraged to put their feet on  
7 X-ray machines at the shoe store to see the bones  
8 in their feet. We now know there is no safe dose  
9 of radiation according to the studies.

10 This danger left behind from the  
11 Manhattan Project continues to threaten the health  
12 of generations who live and work here, and will  
13 forever, unless it is removed from where these  
14 people live. There's a saying; you did then what  
15 you knew then, when you knew better you did  
16 better.

17 It is well past time for the Corps of  
18 Engineers to finish their obligation to this  
19 community and do a better job and remove all the  
20 radioactive waste left from the project of the  
21 bomb before it contaminates more areas and exposes  
22 more unsuspecting citizens. Alternative 6 might  
23 be a good option. Thank you.

24 (applause)

25 FACILITATOR O'NEIL: Donovan Larson.

1 SOMEONE FROM AUDIENCE: He had to leave.

2 FACILITATOR O'NEIL: How about Leon  
3 Steinbach?

4 MR. STEINBACH: I'm Leon Steinbach. I'm  
5 a Hazelwood resident. I'm retired U.S. Army of  
6 the U.S. Army Aviation Troop Support Command.

7 And one of our responsibilities when I  
8 was a federal employee was to develop and produce  
9 protection -- uniforms that protected against  
10 radioactive and chemical warfare. The Army looked  
11 out for their troops in the field.

12 And I think the delay in action for the  
13 public welfare since the manufacture and storage  
14 of radioactive materials in this area, that we've  
15 waited too long and I think we should act now.

16 In 1965 daily for about 5 years on the  
17 way to work I traveled on Latty and Buddy, Nyflot.  
18 I sold real estate in this area. And I'm a little  
19 irritated and upset that I was one of the people  
20 that could have been exposed to this radioactive  
21 material.

22 I disagree with the study that the creek  
23 has a low priority as far as resolving and  
24 cleaning up radioactive material. I think the  
25 creek all the way from the site here at the

1 airport to where it goes into the river should be  
2 retested, not only the sediment below the water  
3 but the banks. Because when the banks flood or  
4 over a period of years, you could have had  
5 cumulative radioactive dried dirt, and even in  
6 cases where basements flooded that could be a  
7 possibility of radioactive.k.

8 I'm currently -- I sell real estate, do  
9 some real state appraising. And one of the  
10 factors we look for is environmental hazards. And  
11 I think this is a key concern of a person that  
12 wants to sell his house. I know that from the  
13 questions asked it's probably more serious than  
14 even having a house in a floodplain.

15 So I would recommend a concentrated  
16 effort on cleaning up the creek, Coldwater Creek  
17 area, and the banks and possibly the houses that  
18 have been flooded, test it.

19 I don't agree with some of the future  
20 findings as voiced by the previous speakers that  
21 are in your study.

22 I do appreciate speaking here tonight,  
23 but I think the Army's motto is take action and I  
24 think you should take more immediate action and  
25 just implement the plan. And I agree with your

1 alternative number 5. Thank you.

2 (applause)

3 FACILITATOR O'NEIL: Daniel McKeel.

4 MR. MCKEEL: Hello, everybody. I want  
5 to thank the organizers of the meeting for  
6 allowing the public to comment on this important  
7 feasibility study and the proposed plan.

8 My name is Dan McKeel. I'm a human  
9 pathologist who works on the faculty of Washington  
10 U School of Medicine in the Department of  
11 Pathology and Immunology. And that's located  
12 where I live in the City of St. Louis. In my work  
13 I direct a general pathology laboratory for the  
14 federal Alzheimer's center.

15 And in recent years I've been engaged  
16 actively in the citizen oversight of what's going  
17 on at the Weldon Springs site. I think I have by  
18 now a pretty good idea of the Mallinckrodt  
19 Chemical Works uranium division operations. And  
20 basically flowing from that, I'm very active these  
21 days in supporting the efforts of the former  
22 workers at MCW and their survivors to gain their  
23 long overdue compensation under the federal  
24 EEOICPA 2000 law and endorse their efforts to  
25 become a special exposure cohort.

1 My comments tonight I guess are a little  
2 different from what anybody else has brought up.  
3 But first, before I have that, I have a very  
4 simple comment and two brief questions related to  
5 it. But I want to say that I favor the idea of  
6 alternative 6, that is cleaning up as much as  
7 possible. And under the roads and bridges, when  
8 that dirt becomes accessible, I think we ought to  
9 try to clean it up.

10 I also strongly endorse what Jim Werner  
11 said, that the groundwater just has to be  
12 monitored unless it can be absolutely proven that  
13 there's no need to do that, and I think that's  
14 basically impossible.

15 So I have a comment and two related  
16 questions. And they're very specific things.

17 On page 18 of the proposed plan is the  
18 following statement that has what I believe to be  
19 major factual errors. Since the major point of  
20 the proposed remedy number 5 and 6, and all of  
21 them really, is to protect the public health and  
22 environment, I feel that these are very serious  
23 scientific and medical errors in the document  
24 which must be addressed and the statements must be  
25 modified. The particular passage at issue reads

1 as follows and I'm quoting:

2 At the North County site 11  
3 non-radionuclides are identified as  
4 contaminants of concerns or COC's for  
5 soils. And they are antimony, arsenic,  
6 barium, cadmium, chromium, molybdenum,  
7 nickel, selenium, thallium, uranium and  
8 vanadium.

9 It goes on to say, and this again is a  
10 quote:

11 These non-carcinogens have different effects  
12 on systems or organs in the body.

13 End of the quote.

14 My first related comment is that uranium  
15 238 is definitely a radionuclide with a half life,  
16 as has been pointed out, of 4.47 billion years, in  
17 addition to its toxicity as a metal. So calling  
18 uranium a non-radionuclide must therefore be  
19 corrected in the document.

20 My second comment is that the listing of  
21 11 contaminants of concern for soil as  
22 non-carcinogens is substantially incorrect. In  
23 fact, perusal of carcinogen listings for the named  
24 substances published by EPA, the ATSDR, National  
25 Toxicology Registry, and the International Agency

1 for Research in Cancer reveals rather that 6 of  
2 those substances are established human  
3 carcinogens. In particular, arsenic, cadmium,  
4 nickel, hexavalent chromium, uranium and selenium  
5 sulfide. I don't really think there's any  
6 argument about that. The plan does not state  
7 which forms of chromium and selenium are being  
8 referred to on page 18, and it is true that some  
9 of those compounds are not recognized human  
10 carcinogens.

11 Listed as not classified in the same  
12 sources, however, because of insufficient human  
13 data with respect to carcinogenesis are antimony,  
14 barium, molybdenum and thallium. However, for  
15 example, in the ATSDR tox fact on antimony it  
16 notes that this substance has produced lung cancer  
17 in rats.

18 So I need to stress that not classified  
19 is different from being classified as not  
20 carcinogenic since it means that insufficient data  
21 exists to decide conclusively one way or the other  
22 of the carcinogenicity of the substance.

23 The single compound that all agencies  
24 characterize as not being a human carcinogen is  
25 vanadium. Even so, the EPA and the IARC note that

1 this compound can cause irritation of the eyes,  
2 skin, nose and throat. It can also cause  
3 respiratory distress and labored breathing as well  
4 as allergic skin reactions. So like most of these  
5 heavy metals, there are toxicities other than  
6 cancer and they also need to be considered.

7 So I have the two related questions are,  
8 I'm interested what sources were used to classify  
9 uranium as not being a radionuclide, and what  
10 sources were used to say that the 6 known  
11 carcinogens were to be labeled as non-carcinogens.  
12 And I understand that questions aren't to be  
13 answered tonight, but I hope to get an answer to  
14 that eventually.

15 The related question number 2 is on the  
16 following paragraph after the excerpt that I read  
17 on page 18 of the plan is this statement, and I  
18 quote again:

19 Toxicologists evaluated the primary  
20 effects of 11 metals in the soils of  
21 North County.

22 End quote.

23 So my question related to that is who  
24 were the toxicologists, and I would like to have  
25 their name, their degrees, their agency or

1 institutional affiliations, and what were their  
2 job titles.

3 Second, it mentions primary effects.  
4 And I would like to know what is meant in the  
5 document by primary effects that apparently were  
6 used to classify these 11 metals as  
7 non-carcinogens. And by primary, I think that's  
8 important to define what that means since all of  
9 the known biologic effects of the 11 compounds may  
10 be operating on citizens exposed to them to harm  
11 human health and the environment by imposing a  
12 cumulative risk from many diseases that are too  
13 numerous to go into detail here tonight.

14 I do plan to submit more extensive  
15 written comments to amplify these comments and I  
16 thank you very much for allowing me to speak.

17 (applause)

18 FACILITATOR O'NEIL: Kathleen  
19 Logan-Smith.

20 MS. LOGAN-SMITH: Hi, I'm Kathleen  
21 Logan-Smith with Health and Environmental Justice  
22 St. Louis.

23 And I have a lot of questions and I'll  
24 submit a lot of these in writing. But it seems to  
25 me that, first of all, we'd like to thank the

1 Corps for taking action. After 61 years of living  
2 with the stuff it's nice to have something  
3 happening.

4 But I would have to say that if I were a  
5 teacher I'd have to give you a C because you've  
6 turned in a piece of incomplete work. It seems  
7 like we have some big holes in the plan and it  
8 looks like Coldwater Creek is one of those big  
9 holes, that that's not adequately addressed in the  
10 plan and people have already raised those  
11 concerns, I won't go into those details. And it  
12 looks like Westlake Landfill is a really big hole  
13 considering the amount of waste at that site.

14 The idea -- I'd like to also address the  
15 idea of permanent structures. Those of us who  
16 have ever driven Interstate 70 know that there's  
17 really no such thing as a permanent road,  
18 especially here. And people who thought that, you  
19 know, certain areas were going to be permanent  
20 roads going into wheat fields are now driving into  
21 subdivisions in North County.

22 So I think that remediating all the  
23 sites and all the soils that are contaminated is  
24 going to be the best plan in the long run. And  
25 how ever we have to do that, if we have to wait

1 for roads to be moved, but they will be moved, I  
2 assure you, because that's just the nature of  
3 things. The only thing constant we know of is  
4 change.

5 So one of my questions is what happens  
6 in 20 years if a road or bridge moves, who pays  
7 for the cleanup then. And that's something that  
8 people have been talking about with long-term  
9 stewardship issues, you know, what's going to  
10 happen if they hit a hot spot when they're moving  
11 a road in the county or somebody is moving a  
12 driveway or something that you considered  
13 permanent today, we've discovered is not nearly as  
14 permanent as the radioactivity underneath it.

15 I think that a more thorough survey of  
16 the creek definitely needs to happen. We had a  
17 lot of discussion already about high water events.

18 The thing that's not addressed here, and  
19 it's not necessarily a Corps of Engineers area of  
20 expertise, is the health risks. You know,  
21 communities that are exposed to elevated levels of  
22 radionuclides experience leukemia. Nationally  
23 brain cancers in children are going up. We have  
24 increases in immune diseases and cancer. And all  
25 these health effects are happening to us

1 nationally and locally. And what kinds of health  
2 surveys, health studies, analysis of data has been  
3 done on residents and people who have worked  
4 around this site.

5 I know at least one McDonnell Douglas  
6 engineer who developed leukemia. Did that happen  
7 because he worked at a building that was, you  
8 know, ventilated near the SLAPS site? I don't  
9 know. But it's questions that need to be asked  
10 somewhere.

11 The issue that Jim brought up I thought  
12 was important for us to consider is the long-term  
13 environmental stewardship office funded long term?  
14 Because if it's not it won't happen. And those of  
15 us who have ever dealt with anything relating to  
16 government know that if it's not funded, it's not  
17 going to happen.

18 The thing that's often overlooked when  
19 you're assessing risk is cumulative risk. So your  
20 risk of exposure to this particle of uranium or  
21 this amount of arsenic might be acceptable, but if  
22 you're exposed to arsenic and uranium and several  
23 other things all at one time, who is doing the  
24 math on those numbers? And the answer generally  
25 is nobody.

1 I have a question about the term  
2 unlimited use and unrestricted exposure. Can  
3 sites that get that designation and have been  
4 deemed cleaned up, can they -- can sites get that  
5 designation without being totally clean, can you  
6 get that designation if you've got institutional  
7 controls on a site? Because I think that  
8 shouldn't happen. And I want some clarity there.  
9 Because if a site is going to be called  
10 unrestricted use, it needs to be completely safe.

11 I really, really am interested in  
12 knowing why the landfill is not included in this  
13 plan. I think it's a tragedy.

14 And I would like to suggest that as a  
15 matter of national policy we all consider the  
16 efficiency and the speed at which we were able to  
17 conduct a war. And compare that to the efficiency  
18 and the speed at which we have been conducting  
19 this cleanup and dealing with the wastes and the  
20 fallout of our warring practices for the last 60  
21 years. We need to apply the same strategies, the  
22 same tactical, you know, successful ability to  
23 solve problems. If we can do it at war, we can do  
24 it at this war on pollution. So I think we need  
25 to challenge our national energies and our talents

1 into solving the problems from the first 60 years  
2 of the atomic age. And I would suggest that the  
3 money for the cleanup come from money that's  
4 channeled into building bombs right now.

(applause)

6 FACILITATOR O'NEIL: Rick LaMonica.

7 MR. LAMONICA: I'm Rick LaMonica. I  
8 live near Redacted - Privacy Act. It's  
9 close to Webster University. I'm very unfamiliar  
10 with all these North County sites. I'm familiar  
11 with where the Mallinckrodt stuff is, but I don't  
12 really know the locations very well.

13 I do know that much in North County is  
14 in a floodplain. Experience from the last 10  
15 years shows that they have had massive flooding,  
16 particularly in the spring. I'm not really happy  
17 that the standard of cleanup for Coldwater Creek  
18 and their term of mean water gradient. I would  
19 encourage them to clean up the area along  
20 Coldwater Creek and include Westlake Landfill  
21 which I understand is also an area that can flood.  
22 And remember that water can move this stuff around  
23 and shift around the sediments faster than the  
24 Corps of Engineers has the ability to clean it up.

25 And so the cleanup should be better.

1 This is no longer rural. It's very urbanized.  
2 It's going to be harder and harder each year that  
3 we let it sit around there and move around  
4 further.

5 And I would encourage them to do better  
6 than they did with the work that they did at  
7 Coldwater Creek several years ago. I can remember  
8 reading some articles in the paper and was kind of  
9 disgusted with the way they were using the  
10 cleanup. What we want to do is clean up the area,  
11 not make further contamination by just shifting  
12 the stuff around. We've already done that for 60  
13 years. I understand you can still follow routes  
14 that trucks were taking with a geiger counter a  
15 long time ago.

16 So we know we can do better and we need  
17 to have better standards. For the minor  
18 difference between alternates 5 and 6, considering  
19 comments from people that live up here, I would  
20 also recommend that they do it to level 6, clean  
21 up more of the sites, make sure that they're  
22 cleaning up the areas along the banks of these  
23 creeks. If this is like South County there's  
24 little creeks running all over the place. And  
25 the use of storm water runoff and heavy rains. So

1 we need a little bit better cleanup and make sure  
2 the next time the stuff floods, it just doesn't  
3 move the stuff into the river where the creeks run  
4 into the Missouri River upstream from some of the  
5 water in-takes. Thank you very much.

6 (applause)

7 FACILITATOR O'NEIL: John Bunn. Mr.  
8 Bunn not here? That's the end of our list. Is  
9 there anyone else that would care to speak that I  
10 don't have listed here? Yes.

11 MR. HENSEY: My name is Walter Hensey.  
12 I used to live one block away from Latty when the  
13 kids were growing up. I live in Des Peres at  
14 present.

15 I just wonder why the government doesn't  
16 have more control over that land and why it's in  
17 private hands. It seems to me there should be  
18 some way to keep that land tied to the  
19 contaminated waste category so that in future  
20 generations it won't be forgotten about. There  
21 must be some way to put it on record that whole --  
22 not just that particular site that we're  
23 identifying for cleanup, but going beyond that  
24 area where contamination has probably spread, and  
25 especially in Coldwater Creek and down stream from

1 Coldwater Creek.

2 I think definitely that Coldwater Creek  
3 should be monitored regularly until there's a  
4 finding of no longer any contamination. That  
5 could go on for centuries possibly. But I think  
6 it could be continued until there's no more  
7 contamination in the creek. Also I think there  
8 should be better designation of that area, posting  
9 of signs of the contaminated area.

10 And I believe that even though you  
11 consider 5 to be the preferred option, I would  
12 think that you ought to at least cover the area  
13 under the roads and put it in your plan some way  
14 that it's covered so that it won't be forgotten.

15 And I'm just wondering if you don't  
16 clean up the contaminated area under the roads and  
17 structures, how are you going to keep that  
18 contamination from migrating into the area that  
19 you've considered cleaned up. You'll have to go  
20 back and clean up the whole area if it does. So I  
21 would say why don't you just do the whole thing.

22 So I appreciate your giving me the  
23 opportunity to speak. Thank you.

24 (applause)

25 FACILITATOR O'NEIL: Is there anyone

1 else that would like to speak? If not, we'll go  
2 back to Sharon for a wrap-up.

3 MS. COTNER: I will keep my wrap-up  
4 comments very short. It's getting near 9:00. I'd  
5 like to thank everyone. I know we all have very  
6 busy lives and it's very pleasing to see this many  
7 people who are that interested in taking time out  
8 of their lives and their busy schedules to come  
9 here and make statements. We do value your  
10 statements. We're very much interested in what  
11 you have to say.

12 You still have, if you wish to make  
13 written comments, until the 14th of July. We will  
14 be taking comments until that day. If you're  
15 interested also in seeing the responses to your  
16 comments and how they're incorporated, be sure to  
17 touch base back with us or come to an Oversight  
18 Committee meeting. We do hold those the second  
19 Friday of every month at the Latty trailers at  
20 11:30. You're welcome to attend. They are a  
21 public meeting. Please touch base with us and  
22 find out what's happening.

23 If nothing else, touch base back with us  
24 in the October, November, December time frame.  
25 The Record of Decision and responsiveness summary

1 we hope will be issued in early 2004, January and  
2 February 2004, and at that point in time we'll be  
3 able to see how your comments were incorporated  
4 and specific responses to all your comments.

5 And having said that, thank you for  
6 coming this evening.

7 -oOo-

## REPORTER'S NOTARIAL CERTIFICATE

I, Sandra L. Ragsdale, a Registered Professional Reporter and Notary Public within and for the State of Missouri, do hereby certify that I was personally present at the afore-mentioned public meeting and that the proceedings were stenotyped by me at the time and place and for the purpose in the caption stated; that my shorthand notes were transcribed by me personally or under my direction; that the foregoing transcript consisting of 81 pages is a full, true and correct transcript of the said proceedings so had; I further certify that I am neither of counsel nor of kin to any of the parties involved in this matter and am in no way financially interested in the outcome of said matter. Witness my signature 6-27-2003.

\_\_\_\_\_  
Notary Public

Notary expires 7-21-2004

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