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Unidentified man,

So I've got about a 20-minute pitch or so to give you, and that will be the talking part. And then following the talking part will be the most important part where we'll invite you to come forward if you'd like to make comments and we'll listen to your comments and we'll respond to those at the end of the presentation.

You see the agenda here. This is the talking agenda. And my staff has allowed me to cover the first three bullets. Dr. Rob Mullins will give you the essence of why we're here. He'll talk to you about the EE/CA part of the agenda and then he'll permit me to come up here and provide a conclusion and then get the question and answer period started.

We've got to have ground rules. In the Army we call these rules of engagement. Here they're ground rules. I'd just like to point out a couple things there. The third bullet, we would like you to hold your questions for during the question and answer period. I understand there were cards when you walked in and many of you have already filled those cards out. So we'll recognize you during the Q and A period at the end.

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COLONEL HODGINI: I'd like to first of all thank everyone for braving the weather and joining us here this evening.

Earlier today I met with some of my staff and employees, and I recognize that many of them are wearing Army green, and I thank them for wearing Army green. I see several wearing green here this evening as well, perhaps not in commemoration of the Army but in celebration of St. Patrick's Day. So Happy St. Patrick's Day to everybody.

I'd like to welcome you all. My name is Colonel Tom Hodgini. I'm commander of the St. Louis District of the Corps of Engineers. And I'll be your host this evening. I'm assembled here with members of my staff, project managers and technical experts, as well as other sources of information that I want to be able to give you. And I trust this will be a very valuable and productive time, use of your time this evening.

The meeting today is really two-fold and it's all about communications. The first part of the communications is talking. And the second part, and the most important part, is listening.

Second thing is -- well, these index cards I mentioned.

Last bullet, everyone will have an opportunity to speak. That doesn't mean you're required to speak. But if you'd like to come up here and say something, everyone will be given that opportunity.

And then, finally, if you don't want to say anything orally but you do have some comments, we'll accept your written comments as well.

The St. Louis District here is one of 6 districts in the Mississippi Valley Division of the Corps of Engineers. We're in the heart of the division. It's a long division, spanning from the Canadian border all the way down the Mississippi Valley to New Orleans and the mouth of the Mississippi.

The Mississippi Valley Division is one of 8 divisions in the Corps of Engineers, and the Army Corps of Engineers consists of about 39,000 employees across the continental United States and throughout the world. In the St. Louis District you can pick out the boundaries, but basically we have about responsibility for about 300 miles of



the Mississippi River, the lower portions of the Illinois River and the Missouri River, 5 lakes, 3 in Illinois and 2 in Missouri, Wappapello and Mark Twain Lake, and 5 locks and dams, 4 along the Mississippi River and 1 on the Kaskaskia River in Illinois.

I'm privileged to lead more than 800 employees in the St. Louis District of the Corps of Engineers. Only 4 are military officers. The rest are civilian service members. All are your neighbors.

At any one time, the St. Louis
District is involved in executing flood control,
navigation and environmental type projects
throughout our district boundaries. The District
spans, like I said, from about 300 miles -- that
goes from Hannibal, Missouri down to about Cairo,
Illinois, the mouth of the Ohio River.

The next slide -- this will be the only eye test this evening. I believe you have a hard copy of this in the packet you received.

Suffice to say, much -- from 1940 to where we are today, much has gone before where we are presently at this point in time.

A couple areas I'd like to point out.

This past fall under a Department of
Energy contract with Bechtel National, remediation
work started on the west end of the airport site.
We picked that up during the transfer and
completed that work in December.

Some of the things that we've got going on right now are in the planning stages. We're going to construct a new rail spur there and that's going to happen starting in May. We're going to take some action to start on the ditches north of the site. And then we're also going to build a sedimentation basin to make sure that no uncontrolled water gets off the site.

We're doing this EE/CA. That's an engineering evaluation and cost analysis. These are some of the objectives that we had. Number one, primary objective that we had in mind, is protecting human health and the environment.

Second off, we have a number of partners that we're dealing with in the state, federal regulatory community, as well as a number of stakeholders here in the community, not just the citizens but also a number of businesses in the city, the county, many different people.

The airport obviously is a very

I can't even read it from here. But 1974 FUSRAP was created. 1977 DOE established. And then a very important date, 1989 SLAPS and HISS were placed on the national priority listing.

Another date of importance, 1992, the Oversight Committee was established. And then finally, a very important date for myself and my organization, October 1997, FUSRAP responsibility was transferred from the Department of Energy to the Corps of Engineers.

At this time I'd like to turn things over to Dr. Rob Mullins who will walk you through the EE/CA's. Rob.

DR. MULLINS: Thank you, sir. If I can get the microphone working. I told Lou this is not my best thing dressed up in a suit and tie. I much prefer blue jeans but for some reason it just doesn't seem to work quite that way for a public meeting.

So we want to talk a little bit about both the EE/CA's that we're doing. And we want to start off with the St. Louis airport site or the SLAP site as you are familiar with it. I want to talk a little bit about some of the things that either have happened or will be happening soon.

important partner in this, and whatever we do we've been coordinating very closely with them, also with the Federal Aviation Administration, to make sure we're not having a negative impact on their operations.

The last two objectives shown there, again just restore the property for use and make sure it's safe for future uses.

Several of you have gotten the EE/CA's in the mail. We also have copies back there for you to take with you if you'd like. But when you boil it all down, these are the alternatives that we're looking at. We have three alternatives.

The first one, the no action alternative mandated by CERCLA. We have to look at that. What if we do nothing. And that actually costs us some money. We'd have to do some long term monitoring and we're talking about \$11 million to do nothing but still figure out what's going on at the site.

We looked at two alternatives that were very similar. Alternative number two, basically to go and clean up the entire airport site, the SLAP site under the EE/CA. And we looked at three different criteria levels. Levels



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A and B are cleaning up to an industrial standard. That's an industrial criteria. And alternative C is looking at a residential standard.

And in a lot of the discussions that we saw when we acquired this project, we looked back at what had been done by the task force, and in working with Rick Cavanaugh and the Oversight Committee. We also looked at this was what you wanted, something that's more like a residential clean-up standard. So that's what we looked at.

We also looked at a third alternative. Same two criteria levels for industrial clean-up, but also a residential level there as well. The difference between the two is really using totally clean backfill material in alternative two, versus using some below criteria materials that we are taking out of the hole, the excavation, in the site.

The materials are below the criteria that we're dealing with. So from that standpoint they're safe to deal with. We see an advantage from a cost perspective to reuse some of that material.

And you can see the prices there.

They vary widely, going from kind of a bare bones

industrial standard up through a very complete residential standard.

From our perspective, what we put out in the EE/CA as our preferred alternative is alternative 3 C. And again, number one, it is protective of human health and the environment. We're going to excavate up to all the material that's out there. We'd also take care of the ball fields and use some of that material to fill back in the hole in the main/property.

We're going to use some of that below criteria material to fill in because it saves some money for the federal taxpayers. All the material that we pull out that's above the criteria level that we've established at residential standards will be shipped out of Missouri to an approved disposal facility.

The difference between this alternative, and alternative 2 C which uses all clean material, no reuse of material, is about \$8.4 million. Now this is accounting for roughly 7,000 cubic yards of material that could be reused in the site.

There's the potential from other vicinity properties around the airport to get an

additional 23,000 cubic yards of material that could be used if the timing works out as backfill.

And that could save another 5 to 10 million
dollars. But that was not included in the cost

5 computation.

So on this alternative, if we go through with this the way it's scheduled, we can begin work this summer.

These are the critical dates that we have to remember. We're here obviously tonight on St. Patty's Day. You can submit written comments up through April 6. So that's the important day for this particular EE/CA.

We also looked -- we decided we'd work with the Oversight Committee to try to determine whether we should have separate meetings to address the airport site and the HISS site, the Latty Avenue site. We also talked with the regulatory community to get some feeling. There's a feeling that these were best addressed together because they're both north county sites.

So, Lou, if you would. Same general kinds of objectives. A little twist here is because we also have a number of industrial properties that are surrounding the Latty Avenue

site. The Hazelwood interim storage site is what HISS stands for. And we need to make sure we're not going to have much disruption of the on-going businesses there because that would hurt them. It certainly wouldn't do any good for the job creation there.

We're going to be constructing a rail loading facility as a part of this. That's included in this particular package. It's a part of both the alternatives. And main thing is trying to get the piles that are out there on Latty Avenue off the site. We're not really looking at the subsurface work in this EC/CA, this particular document.

Same format that you saw on the other slide. These two alternatives are very similar. Primary difference between two and three is that in two what we'd be doing is segregating some of the below criteria material, just as we talked about on the airport site, to use to fill in some holes later on.

And right now it's estimated to be about 8,000 cubic yards. So there's some savings there. And you see the few million dollar savings between the two alternatives. That's really the

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primary difference between these two.

But the goal is to clean up some of the vicinity properties and also get rid of the piles. So we go through.

Alternative two which involves the segregation and storage of that below criteria material, putting it on the side for some future use. Constructing a rail spur to make getting this material off-site a little bit easier is in

All the material that's above criteria will be shipped out of state to an approved disposal facility. None of it is going to go back into Missouri. This saves a little under \$4 million. And again work could begin this summer on this alternative.

A little bit longer deadline on this. We had about a three-day swing when we got the documents out to you all for review. So we've got 'til April 9th to receive written comments. The record will be open until then. So we welcome your comments.

Those will be included in the documents for both the HISS site and the airport site. We will prepare a response to every comment

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we receive and that will be included in what's called a responsive summary. Then we'll get to an action memorandum.

This is kind of the overall schedule for finishing up the documents. We go from here through the end of the comment periods that we've talked about. Once we have the comments, we respond to those comments, we make adjustments to the plans, or our recommendations, if there seems to be a need to do that.

If there's overwhelming support for a different alternative than what we selected, then we will have to weigh that and potentially change our mind based on the comments that come back. But we'll have too look at the impact of that.

So the goal is to have a decision document completed on both of these by the end of June and to get into construction, moving this radiological material out of the State of Missouri starting in July.

stay in touch. We do have an on-site gentleman. out there on site every day. And so if you have

or by e-mail. And these are some of the things.

I'd like to turn it back to Colonel Hodgini to wrap up.

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4 COLONEL HODGINI: Thanks, Rob. 5 Wrapping this part of the session up, I'd just 6 like to say two or three things. First of all, 7 when we look at that site history slide I want to 8 acknowledge -- I'd like to acknowledge that 9 there's been a lot of effort and a lot of work 10 that has gotten us to this point. A lot of work 11 on behalf of the Department of Energy, EPA, the 12 State of Missouri, the Missouri Department of 13 Natural Resources, and very importantly, the 14 Oversight Committee and the local community who 15 have worked very hard to get us to this point. So 16 I acknowledge that up front and say we're on the 17 verge of meeting some early objectives.

Last October when the President approved the transfer of this program from DOE to the Corps of Engineers, my boss two levels up, Lieutenant General Ballard is the chief of engineers, summoned myself and about four of my fellow district managers to Washington to give us guidance. And it's common in the Army for higher level commanders to give subordinate commanders

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guidance and directives. And so I duly reported to Washington.

And he said a couple things that have stuck with me. Number one, he called -- he said, remember, the most important thing that you've got to keep in mind to be successful -- I'll back up. He said I expect success and here's how I define success; he says I define success as satisfying the customer. And that's why we're here tonight. You all are the customer.

And the second thing he said that stuck in my mind, he referred to this FUSRAP as a mission rather than a project. And mission in the Army has connotations above and beyond a project. When I think of a mission I think of objectives and I think of pulling all the resources available to accomplish that mission. A little bit different than a project.

The final objective in this case in my mind is remediation, removing the contamination and replacing it with clean material.

An intermediate objective, what we're talking about tonight, is the documents that we need in place to reach that objective. In this case the EE/CA's. And later on we'll be talking

about a record of decision. But right now we're talking about the EE/CA's. So that's the intermediate objective. We need to accomplish that before we can move on to the final objective.

We've got a lot of experts up here and we're prepared to now respond to your questions. But I would like to keep that in mind, that this for us is a mission, we're not looking at a project 10, 20 years to continue on. But we're looking to get to that final objective just as quickly as we're able to, given the constraints and the resources that we, of necessity, must operate under.

Okay. Must be time for questions. We have some cards up here and the microphone.

DR. MULLINS: We will bring a microphone to you. If you would, make sure you state your name and organization so we can have the reporter get that entered in the record.

COLONEL HODGINI: Several questions. First, I'd like to introduce Mr. Steve mahfood, the Missouri Director of the Department of Natural Resources. Steve. Thank you for being with us tonight.

MR. MATTHEW: Thank you very much.

Congress. I believe that the Corps may be on the verge of initiating an extremely successful clean-up that would be consistent with the

commended for proceeding expeditiously with this

clean-up project that's been assigned to them by

clean-up that would be consistent with the
recommendations of the St. Louis site remediation
task force.

The Corps has made the correct decision in the selection of the 5, 15 clean-up criteria. This is the proper technical clean-up criteria and it's in agreement with the wishes of area citizens.

The State of Missouri supports alternative 2 C for the St. Louis airport site and vicinity properties. Following the same principle, the State of Missouri supports alternative 3 in the Hazelwood interim storage site and its associated vicinity properties.

In the case of the St. Louis airport site and the Hazelwood interim storage site, the use of contaminated material between 5 picocuries per gram and 15 picocuries per gram for backfilling purposes poses several significant problems that we don't feel can be justified by the very minor projected 4 percent cost savings.

Good evening. As some of you may know, I served Governor Mel Carnahan as a director of the Missouri Department of Natural Resources.

The Missouri Department of Natural Resources is the environmental quality and resource protection agency for Missouri state government. Tonight I'm here to present formal testimony on behalf of the State of Missouri regarding the Corps of Engineers clean-up proposals for the St. Louis airport site, the Hazelwood interim storage site, and associated vicinity properties.

As you know, uranium was refined in St. Louis from 1942 to 1957 for the nation's nuclear weapons program. Radioactive waste resulting from those federal weapons production activities now contaminates properties in both St. Louis City and St. Louis County.

Governor Carnahan has strongly urged the responsible federal agencies to move forward with the clean-up of nuclear weapons production wastes and do this in a manner that leaves the property owners whole. This anticipated clean-up is long overdue.

The Corps of Engineers is to be

The Corps of Engineers proposal to use the below criteria, but nonetheless contaminated, material we feel would have the following impacts: one, it would make the clean-up more complicated; two, it would require the segregation of waste during excavation; three, it would require the stockpiling of contaminated materials for an undetermined time; four, it would require that stockpiled waste be protected from wind and water and erosion for lengthy periods of time; five, it would require much more extensive sampling and analysis; and finally, we feel it would violate Missouri's solid waste law.

I sincerely hope that the Corps will reconsider its position with respect to the use of below criteria material for backfilling. If the Corps would decide to use clean fill for backfilling, we absolutely feel there would exist a broad agreement between citizens and their government regarding the proposed clean-up.

Thank you for the opportunity to comment.

COLONEL HODGINI: Thank you, Mr. Matthew.

DR. MULLINS: Steve, we appreciate the

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comments. We agree on the criteria. I think we will be working with your staff on some of the issues, particularly the legalities with relation to the Missouri solid waste law. We have a slight difference of opinion there, but I think we can work it out.

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The reason we want to get everybody's feedback is so we can see if we've made the right decision or if we need to change it. Thank you very much.

COLONEL HODGINI: As we proceed through this question and answer period, what I'm going to do -- and you'll see me refer to the staff of technical experts here, because, one, I want to give them some face time with you, and number two, they'll give you the most technically correct answers.

Okay. Next question. Miss Anna Ginsburg will be making a statement of behalf of Colonel Griggs and Mayor Harmon.

MS. GINZBERG: Good evening. I'm here this evening representing the City of St. Louis and the St. Louis Airport Authority. And the City and the airport are interested in the airport site primarily because it does impact the operations of

This body, representing a broad range of stakeholders, met for over two years and worked through a variety of diverse options to come up with a nearly unanimous recommendation on how to proceed with the clean-up of the FUSRAP sites.

Furthermore, in 1988 an overwhelming majority of citizens in both St. Louis City and St. Louis County made it clear that they did not want to see the airport site turned into a permanent storage bunker for radioactive waste. And we are concerned that the storage of any contaminated soil, no matter how low the level, may be perceived by the public as a step toward establishment of a bunker at the airport site.

An additional reason for rejecting the below criteria backfill is stated on page 5-6, Section 5.2.2 of the EC/CA. This statement points out the fact that the need to segregate these above and below criteria soils during removal would complicate the excavation.

Complications on projects of this nature often bring increased costs. And the City of St. Louis does not believe that the minor cost saving is worth endangering the public health in the areas surrounding the airport. We firmly

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the airport and it's also owned by the City of St.

We support alternative two as described in the EC/CA: the excavation and disposal of the waste at the airport site and the ballfields.

We also support using the strictest proposed clean-up standards for alternative two, including clean-up of Radium 226 to levels of 5 picocuries per gram for the surface and 15 picocuries per gram for the subsurface; clean-up of Thorium 230 to levels of 5 picocuries per gram for the surface and 15 picocuries per gram for the subsurface; and clean-up of Uranium 238 to levels of 50 picocuries per gram for both the surface and the subsurface.

We also support the use of "clean" soil to fill in excavated areas rather than soil from the site that remains contaminated below the criteria of 5/15 and 50.

We favor this alternative because we believe it has the support of the public and 23 because it fits most closely with the recommendation of the St. Louis site remediation task force regarding clean-up of the airport site.

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believe that clean soil must be used as backfill at the airport site.

We also want to reiterate our support for continued public participation in the clean-up process of all the FUSRAP sites in St. Louis City and County. Through years of discussions and dialogue among diverse constituencies, this region has established a consensus on how to proceed with the clean-up of these sites.

And in order to maintain this consensus and implement the work plan, we encourage the Army Corps of Engineers to work closely with the St. Louis Oversight Committee on radioactive waste and the public in general.

It is especially important that the Army Corps of Engineers officials coordinate closely with airport officials to make sure that all clean-up activities at and around the airport are consistent with the guidelines of the Federal Aviation Administration.

In closing, we want to note that in keeping with the spirit of the regional consensus on this issue, we've worked closely with our counterparts at the State of Missouri and St. Louis County to achieve consensus on our

positions. 2

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We are united in our belief that alternative two, with clean-up to the 5/15 and 50 standard, is the best option for the airport site clean-up.

COLONEL HODGINI: Okay. Thank you, Anna. We do remain committed to continue to include the public in everything we do and be open and honest in all our business processes. And as Rob mentioned earlier, we'll continue to look at the use of below standard material.

Okay. Next we have Mr. Rick Cavanaugh.

MR. CAVANAUGH: My name is Richard Cavanaugh. I'm the chairperson of the St. Louis FUSRAP Oversight Committee.

I also want to state for the record that I live on Coldwater Creek. So I have a personal involvement in terms of the concerns about the creek and what flows from here to there where I live.

I want to read a statement from the County Executive of St. Louis County, Buzz Westfall. He's not able to be here this evening. As you may have heard, he's had some hip

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replacement surgery and he's not moving around as well as he would normally be doing. So he is not here.

I'm also glad that I don't have to say picocuries as many times as Anna did in her statement. It's very difficult for an Irishman on St. Patrick's Day.

But this is a statement from the County Executive.

In 1990 I made a campaign promise that I would work with this community to safely remove all radioactive wastes from north county. Our county is home to more than 1 million people and it's one of the most populated regions in the State of Missouri.

Radioactive wastes should not be stockpiled anywhere near St. Louis County's residents, its water supply, its creeks, its air or its groundwater.

Since 1990 a coalition of concerned citizens and county, state and federal officials have worked hard to get the attention of the Department of Energy to secure funding to remove this waste. Now working with the Corps of Engineers, we are on the brink of approving the

EC/CA process to make it happen.

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As County Executive, I strongly support alternative 2 C for the clean-up of SLAPS, and alternative 3 for the clean-up of HISS which provides a backfill of clean dirt. These are consistent with our task force recommendations.

I will take whatever actions necessary to ensure that north county is cleaned up to the highest possible standards to protect residents, industry, Coldwater Creek, our drinking water supply, and the future of economic development in this region.

Thank you. That concludes his statement.

I would also want to add personally that while there's some minor disagreement perhaps relative to the choice of soils, if you will, for the backfilling of this project, I do want to say that we are very, very pleased with the cooperation and the communication we've received from the Corps of Engineers. It's been a

22 delightful change perhaps, to be honest, from what 23 we have experienced in the past. And we look

24 forward to working collaboratively to getting this 25

project done in a cost effective fashion. Thank

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you.

COLONEL HODGINI: Thank you, Rick, and I believe we're on the same path.

Next comment will be made by Mr. Bob Cook from the Missouri Attorney General's office.

ASSISTANT ATTORNEY GENERAL COOK: Good evening. My name is Bob Cook and I'm Assistant Attorney General for the State of Missouri.

It is our understanding that the Corps would prefer to backfill contaminated radioactive soil to save a relatively small amount on the clean-up's total costs.

We are disappointed that the Corps would rather cut corners than do everything it can to protect the public health, safety and welfare of the people of Missouri.

This miserly approach would reduce the expected costs of the SLAPS clean-up by only about 4 percent from about \$219 million for clean fill to about \$210 million dollars for below criteria

The savings at the Hazelwood interim storage site would be about 3.5 million, a reduction from 73.5 million to about \$70 million, overall only a 4 percent cost savings.



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In addition to being disappointed by the Corps's preference to cut corners, we are concerned because backfilling contaminated soil would violate the Missouri Solid Waste Management Law. This law broadly regulates solid waste, including radioactive wastes. It is unlawful to dump solid wastes on to the ground in Missouri. It is also unlawful to store or dispose of solid wastes in such a manner as to create a public nuisance or adversely affect the public health

In our view it would be unlawful for the Corps to backfill contaminated soil.

Stockpiling below criteria materials and backfilling it at various sites later would violate Missouri law. It does not matter whether the contaminated soil is termed hot or cool by federal agencies. Backfilling it would violate this statute.

We stand ready to protect the people of Missouri from continued exposure to radioactive waste generated, stored and placed around Lambert Field by the federal government a generation ago. All affected properties must be backfilled with clean fill. Nothing else will do. Thank you.

DR. MULLINS: I understand your

1 proceed with the expedited removal of the sources

2 of contamination at both the SLAPS and HISS sites.

3 Dr. Williams believes that clean-up of the soils

4 to levels of 5 picocuries per gram of Radium and

5 Thorium in the first six inches of soil, and 15

picocuries per gram at depth, and 50 picocuries
 per gram of Uranium at any depth will be

8 protective of the bedrock aquifer.

Source removal will greatly reduce the risks to the aquifer. The state geologist is aware that shallow groundwater at both SLAPS and HISS has already been impacted by the waste at the site. The shallow groundwater is directly in contact with contaminated material during a large portion of the year.

Therefore, the sooner the waste is removed, the less chance of further degradation to groundwater.

Alternative 2 C in the SLAPS EC/CA and alternative 3 in the HISS EC/CA are the proposed actions that are the most protective of both human health and safety and the environment. They are less complicated alternatives as compared to some of the other options suggested. Neither of these

alternatives require stockpiling excavated

concern. We did not choose this alternative lightly. We did go through our attorneys and we got an attorney's opinion that in their opinion the backfilling with below criteria material was legal.

We had some discussions with MDR&N in particular about that and we knew there would be more discussion to come. But we do appreciate the comment. Thank you, sir.

COLONEL HODGINI: Thank you, Bob.

The next comment will be made by Miss Mimi Garstang; is that correct? MD&R.

MS. GARSTANG: My name is Mimi Garstang and I'm pleased to comment on the EC/CA for the St. Louis airport site, SLAPS, and the Hazelwood interim storage site, HISS, that were developed by the Corps of Engineers in March 1998.

I'm making these comments on behalf of the state geologist, Dr. James Williams.

The state geologist has always been concerned about the protection of the aquifer that lies beneath the SLAPS and HISS site. This aquifer is being used as a source of drinking water north of the sites.

It is his unquestionable desire to

materials for extended periods of time which could

lead to difficult management of run-off and

3 erosion from the piles. They will not require the

4 intense testing and sampling of contaminated 5 material necessary to segregate the various le

5 material necessary to segregate the various levels
6 of contamination for below criteria soils to be

of contamination for below criteria soils to be properly placed as backfill.

Therefore, the state geologist supports alternative 2 C at SLAPS and alternative 3 at HISS as the preferred alternatives to protect the aquifer of concern and expeditiously remove the sources of contamination.

I want to thank you for the opportunity to present the state geologist's comments on the documents under review.

COLONEL HODGINI: Thank you, Mimi. Of course we're very committed to removing the contaminated materials as expeditiously as possible.

I'd ask my staff if anyone would want to comment on the aquifer or the groundwater.

MR. HEMPEN: I'm Greg Hempen. I'm a geophysicist with the St. Louis District. I'm a personal friend of Mrs. Garstang's and Dr. Williams'. And we appreciate their comments. We





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happen to agree with their stance of protecting the groundwater. We hope to do that and move forward with removing the material that's particularly conducive to risk to the public.

We want to lower the risks, both to the public and the environment as quickly as possible.

COLONEL HODGINI: Thanks, Greg.

Next we're also privileged to have represented here with us this evening Congressman Talent's staff. Miss Barbara Cooper, would you like to make a comment?

MS. COOPER: Thank you. I did not come to read a comment. I came to listen to your comments and concerns. And so I will be taking those back to the Congressman. I appreciate very much the opportunity to be here this evening and to hear what is said. Thank you very much.

COLONEL HODGINI: Thank you, Barbara, for being with us this evening.

Also with the Task Force Oversight Committee, Miss Nancy -- and forgive me if I mispronounce your name -- Lubieski.

MS. LUBIEwSKI: I'm not Polish. Yes, my name is Nancy Lubiewski. I'm a member of the

prior documents and look at all the work that was really put into it, because we put in a lot of time, a lot of volunteer time.

And at this point I can't see anything
else but clean backfill, putting it on a shipment,
cargo bin, and shipping it out. I just hope you
look at the old documents.

COLONEL HODGINI: Thanks, Nanc

COLONEL HODGINI: Thanks, Nancy. We're listening.

Okay. Next person is Miss Sandy Dilcor.

MS. DILCOR: I'm Sandy Dilcor living on Coldwater Creek.

Timothy Flint, the Congregationalist clergyman, who wrote on the agricultural possibilities of Missouri described the Coldwater Creek Valley around 1836 for the benefit of eastern readers saying: The soil is fertile to a degree, being a rich heavy loam of inky blackness. That long of a description of Coldwater Creek around that time as a considerable stream of pure water and on the opposite side is one of the most fertile and valuable prairies in the country, tells us the best soil available should be used to replace the contaminated soil that is removed from

task force. And I was also a member of the prior task force. First, we had a task force. Then we had the Oversight Committee. We changed names, right, okay.

And somebody put out the date, 1990, Buzz Westfall's office started getting the people together for this. That's 8 years. I would guess 7 years we worked with the Department of Energy. And at that time as a committee we did compromise. We did go over numbers. And we haggled. And did study, research, sent some people out of town.

Came back and the final report was the compromise. As the Oversight Committee, we agreed and promised the task force that there would be no more compromise, that this is what we were going to ask for. At no time did we say anything about anything else but clean backfill. The criteria was the 5/15, 50.

The bunkers, the storage bunkers, were not an option. There's too much fear that storage bunkers then may stay permanent.

And these things need to be addressed. This is a lot of work in the past. And the compromises already have been made.

And I hope you sincerely look at the

the Coldwater Creek valley, also known as the Florissant valley of flowers.

It is a coincidence that this meeting falls on St. Patrick's Day and it isn't easy always being green as we all know from SLAPS and HISS and Mallinckrodt.

But perhaps when these sites are cleaned up, we can have the greenway oasis so many of us have dreamed about on Coldwater Creek for years.

COLONEL HODGINI: Thank you, Sandy. We share your vision of returning the valley to the one described in the 1800's. Thank you.

Okay. Next person to comment, Mr. Donovan Larson from St. Louis County Water Company.

MR. LARSON: Thank you. I'm Donovan Larson. And I had been a member of the previous citizens task force, and was part of the group that reviewed the various options that the Department of Energy presented over the years.

My particular interest has been in the protection of the field workers at St. Louis County Water Company has to get itself pipeline maintenance. We've been concerned over the years

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that our exposure or the exposure that we allow our workers to encounter be minimized.

And so we're very happy to see that this report has suggested clean-up to background levels. We do support the 2 C and the 3 options of the SLAPS and HISS site.

I would also as a former member of the citizens group like to point out that the EC/CA unfortunately is pretty sketchy in repeating some of the work that was done investigating the groundwater contamination potential. And I would urge the Corps to consider going into a little more depth in addressing that part of the environmental decontamination in its final draft.

COLONEL HODGINI: Just a second while we change cassettes.

Greg, would you like to respond to the groundwater contamination question please?

MR. HEMPEN: My response would be that the EE/CA's were considered interim actions to remove source material, get it removed from the public as quickly as possible. We don't feel that this is the end of the actions that we're involved with. And as a matter of fact, for both sites there will be additional work to assess the

is going to be accepting things from St. Louis?

COLONEL HODGINI: Right. Go ahead,
Bob.

DR. MULLINS: Sir, right now it looks like Envirocare is going to be in business for quite a while. But one of the other initiatives that we've done here in St. Louis on behalf our other sister districts that Colonel Hodgini talked about at the beginning of the presentation, we're pushing a series of national disposal contracts to look for additional sources, additional places, where we can dispose of material. And we think that those are out there.

And right now we're pursuing those.

We hope to have some new contractual vehicles, new disposal sites, on line by the end of this fiscal year, which for us ends in September. Hopefully sooner.

MR. MARK: Well, this was gone through before and they had a lot of people come in and talk about available sites and so forth. It's, you know, sort of important to see whether they're going to be accepting whatever you're going to be digging up.

DR. MULLINS: Yes, sir, and we have

impacts on groundwater in particular that you describe.

But those actions we perceive now as moving toward monitoring particularly deep groundwater and its effects. And we're moving the surface contamination as quickly as possible so we diffuse and eliminate the impacts to surface waters, the near surface groundwater.

COLONEL HODGINI: And do keep in mind, I know everyone here is aware, this is an interim objective. I talked about interim objectives and the final objectives. And this is the opportunity to remove some soil, contaminated soil, as expeditiously as possible.

Well, I've run out of cards. Did I miss anyone? Is there anyone else who would like to make a statement? Please, sir.

MR. MARK: My name is Ed Mark. I have two questions, no comments.

At one time they were saying the window for disposing of the radiated waste was a definite thing out there in Utah, and they didn't know how long it would stay open.

Do you have any further word of how long Environmental Care, or whatever the name is,

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been looking at that and we do believe there are alternatives.

MR. MARK: The other thing is that there were two notices in the paper about the MSD, Metropolitan Sewer District, having two meetings, one on the 23rd which is going to be discussing Coldwater Creek from the airport south, and the 24th discussing Coldwater Creek from the 24th -- from the Lambert north on the following day.

I don't know anything about what they're going to be talking about. Do you gentlemen know what they're going to be talking about?

DR. MULLINS: I do not, sir.

MR. MARK: Then I would like to suggest that you have some representative there because Coldwater Creek has been overflowing the banks for 20 years. And anything you do is going to be compounded by any flooding problems which are still around and going to be around for a while. And so they may be attempting to eliminate some flooding problems, I don't know.

But it would seem to me to be very important to you to coordinate with them.

COLONEL HODGINI: Thank you for your

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suggestion. I'll have my staff contact them. Appreciate it. All right.

Would anyone else like to make a comment or are there any other questions?

UNIDENTIFIED MAN: I'd just like to ask how soon are you going to be putting in the rail spur at SLAPS? And will you be using subcontractors or will the Corps bring in their own people to do this work?

DR. MULLINS: Mike, I think you're probably the best one to address that.

MR. PHILLIPS: My name is Mike Phillips. I'm the construction manager with the Corps of Engineers here at the FUSRAP sites.

With regard to the SLAPS rail spur, the contractor that was turned over to the Corps of Engineers at the time the program was turned over from the Department of Energy, that being Bechtel National, is effecting the contract to install that rail spur at SLAPS.

They have advertised, and if I understand correctly, have identified a contractor that will be doing the actual installation.

Installation should be starting some time in May.

I believe you also asked about the

HISS spur. The same contractor, Bechtel, will be soliciting bids for that installation also.

UNIDENTIFIED MAN: Has the contract been awarded for the SLAPS spur?

MR. PHILLIPS: Award is imminent. Award has not been made at this time.

COLONEL HODGINI: I believe there was another question.

UNIDENTIFIED MAN: I just wanted to ask, in regard to the criteria that you're talking about clean-up, a couple things. One comes to mind automatically. There is no mention of an ALARA goal -- as low as reasonably achievable -- in the criteria. And I know this is an interim response action. But when you do your design engineering, when you do the design, do you have a buffer implied or what's your design criteria? Is the design criteria the background plus 5 picocuries surface and again 15 for subsurface?

And when you do your removal, how do you define that removal? Are you going to do sampling or walkovers? Or how are you going to define that you've met the criteria? What quality control do you have to assure?

And the other thing is why don't you

use a combined Radium number 226/228 rather than just using 226 for your surface and subsurface?

Thanks.

DR. MULLINS: I think we have a couple of different questions in there. Probably we'll have Dennis Chambers address the health physics question and Tom Freeman address the engineering question. Dennis.

MR. CHAMBERS: The first question with regard to the issue of the Radium 226, I think the background behind that is that approach was developed based upon on the mill tailings, the UMTRA standards, which were established a number of years ago. It's a standard approach that's been used.

UNIDENTIFIED MAN: 192?
 MR. CHAMBERS: Excuse me?
 UNIDENTIFIED MAN: Are you talking
 about 40 CFR 192?
 MR. CHAMBERS: Yes, exactly. That I

MR. CHAMBERS: Yes, exactly. That I think is the basis for it, and all of the calculations that have been done, the risk assessments and so forth, do show that it is protective of health and the environment.

At the same time the ALARA

principle -- well, obviously as we go through, the actual design of the remediation is going to be a major consideration to make sure that the exposure both to the workers on site, as well as to the members of the public, are kept to a level as low as is reasonably achievable, and the site as it is ultimately designed also meets the ALARA criteria.

MR. CHAMBERS: There's a question on the construction you said?

UNIDENTIFIED MAN: Well, I just wanted to ask you, as far as this meeting of criteria from the design phase to the actual construction, how are you going to assure that you're meeting those criteria?

MR. CHAMBERS: The approach that we have, there is something that's called a Multi-Agency Radiation Site Survey and Investigation Manual. It's been approved in

January of 1998 by the EPA, the Department of
 Defense, the Department of Energy, as well as the

21 Nuclear Regulatory Commission.

And the MARSSIM document does provide guidelines and approaches for doing those types of final site surveys. And we will to the maximum extent possible follow the MARSSIM guidelines.

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COLONEL HODGINI: Does that respond to your question?

UNIDENTIFIED MAN: Yes, I was just curious, is there going to be third party independent oversight or is this going to be Corps of Engineers actually doing the criteria or do you have subcontract personnel, you know, doing this?

MR. CHAMBERS: The actual methodology for the final site survey is currently being developed. And it will be developed according to MARSSIM guidelines.

UNIDENTIFIED MAN: So it's not part of the interim response action or part of any EC/CA document?

MR. CHAMBERS: No, it is currently being addressed at this point for specifically that reason.

UNIDENTIFIED MAN: Okay, thank you. COLONEL HODGINI: Thank you for your question. Other questions? Over here.

UNIDENTIFIED MAN: I'm a property owner adjoining Coldwater Creek. I was here at the last session you had. My thought is you have a little taste of the groundwater today. What's going to happen in the next two months is going to

tributary over there. It does not receive that
water from around the piles. That water is
collected. And yes, I'm certain that it's
measured before it gets removed from the site. So
it is not being put directly into that tributary.

UNIDENTIFIED MAN: I know I spoke once before at the other meeting about the site over at Lambert Field by McDonnell Boulevard. You were going to put a retainer or something there to keep the water from washing -- the ground washing over into that.

I see you've been working on that. Now is that the final stage of that project right there?

MR. HEMPEN: If I may respond again. There is a Gabion wall over most of the western side of the SLAPS site which is the east wall of Coldwater Creek along the airport site. That won't be the final stage of that workings for that bank. That bank will have to be removed because there's contaminated material behind it.

But that Gabien wall is a protective measure to prevent erosion of the bank and sloughing of that material into Coldwater Creek. So it's a means to stabilize that site.

be three or four times more than this. I've lived here 45 years and we're in our wettest part of the spring.

I was interested, there was a contributory creek somewheres over by Latty Avenue I believe and it runs into Coldwater Creek. And I believe it comes from your storage piles. The reason I knew there was a creek there, I used to ride a horse over there and I told my kids to stay out of that creek because it's too soft.

Now if you disturb something over there, is the groundwater going to wash it into Coldwater Creek?

COLONEL HODGINI: Greg, can you -MR. HEMPEN: The piles at HISS have
what is called a ring ditch around them. And
water is collected and goes through a weir so we
know the volume of water being moved off.

That is separate from the tributary that is to the south of those piles. There is a separate intermittent stream that the rail tracks have to cross to get to the spur over there. And there's several rail spurs that go both west and east of the site.

But the bottom line is there is a

And in the EC/CA that currently exists for the site and the future EC/CA, we plan additional stabilizing efforts so that the storm water surface run-off reduces the amount of contaminant material being carried into Coldwater Creek.

UNIDENTIFIED MAN: The reason I notice this driving along there, I thought if that's the only protection you're going to have there -- I've been over to McDonnell Boulevard and I saw water come up underneath that bridge to hit the bottom of the bridge. If it gets that way again it's going to come back over into that project, what you're going to work on.

MR. HEMPEN: I'd like to say that the Corps recognizes that all of these are just interim actions. We are attempting as rapidly as possible to stabilize the site and prevent other contaminants from not only getting into Coldwater Creek, but into the air that affects the public around it, and into the groundwater.

So those are our objectives, to protect first the public, and then the environment, because it will later protect the public by those prevention measures. All of these

are just interim until the site is fully cleaned up.

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Prior to that remediation there's a potential for other things getting into the environment, and that's why we would like to expediently move to remove these what's called the source contaminants from the site.

COLONEL HODGINI: Thank you. Sir.

MR. MARK: This just occurred to me when I was listening to everyone. I've been involved in this, just looking at things for maybe 10 years on and off. And I have a very fuzzy idea -- because I've never seen a chart by anybody who traced the old stream beds on the Callahan farm which is the site of SLAPS.

Now the reason this might be important -- it's like the home owner over there said -- when you dig some dirt out of SLAPS, the site of the old streams over there, since according to what I've been told by Kay Drey, is SLAPS was a ditch between two streams. If that's true or not I don't know. But that's what her recollection was.

So what I'm saying is I've never seen a chart or a map where let's say when the waste

there. So we might be able to see something there.

Fortunately, there were a number of agencies, the agricultural service, the defense intelligence agency, all flew the airports during that time as we were getting ready for the war. So we're hoping to have a chronology of the site history and actual air photos starting back in the late 30's and going on up through the mid 50's. So we will be able to tell things like that.

COLONEL HODGINI: Thanks, Tom. Greg.

MR. HEMPEN: If you don't mind I'd also like to respond that the geologic record is very good in itself for appraising just the things you were talking about. We do know that the stream meandered quite a bit just from the sediments adjacent to Coldwater Creek. And so we are going to utilize that information also with the air photos.

MR. MARK: Excuse me. I'm not talking about the Coldwater Creek. I'm talking about the water drainage from Eva Avenue through the SLAP site on both sides of the SLAP site which entered into Coldwater Creek. There's a difference. I'm not talking about Coldwater Creek.

was dumped back in the 1950's, I've never seen what the water pattern was in 1950 before you filled it up. Because if you defill it up, then you're going to get that water pattern again. And who knows what's under the waste. I mean you may have some strange stream condition, even a sink hole. I don't know.

Because there was a lake at the site of the airport. This was a big lake. And that was drained through some type of engineering or dried up or whatever. So that area is rather low. And I'm suggesting somebody find out what the -- where the stream -- where the creeks were in 1950 because it may be important when you start digging this stuff up. It's just a guess.

MR. FREEMAN: I'm Tom Freeman with the Corps of Engineers. We have sent a group of people up to Washington, D.C. to look at the National Archives up there and obtain historical documents and records concerning the SLAPS site, the Mallinckrodt site, anything that we can find out on HISS.

And we did find some photos. We will be getting photos, hopefully the earliest one is going to be about 1938 of the actual site over There was an existing stream pattern
with gullies in there, and all this waste was
dumped into the streams into the existing dug out
area.

MR. HEMPEN: That material will be developed by the air photos. These air photos that we're trying to get from the archives will predate the time when those wastes were taken out there.

What I was recommending is that things that predate man's use of this site are still there in the geologic record. And we're trying to utilize that to help us understand how material can move off the site also.

MR. MARK: Fine. Do it both ways. That's great.

COLONEL HODGINI: A question back here please.

MR. SKIDMORE: My name is Jason Skidmore. I was wondering when was the last recorded accurate survey done on the property? Because if there's a problem with flooding -- I work for a surveying company and a lot of times when we have areas that are flooded we have to do flood certificates on it. If the creek is



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flooding, when was the last survey done on the property to determine the limits and, you know, just the boundary of each of the properties?

MR. FREEMAN: I know that the Corps of Engineers had actually initiated a study, a flood plain study, for Coldwater Creek. I believe back in the late 70's is when that was started.

And we had anticipated doing different channelization, different type of work along there to stabilize it. And it was put on hold because they found contaminated material in there. We didn't know where it came from at that particular

So I do know that we do have some very accurate maps from back in the 70's back in the Corps. I don't know how recently Bechtel or any of the other contractors have performed any surveying out there. I believe there's been some surveying done particularly on the west end in the 1990's.

MR. SKIDMORE: Yes, sir. I'm sure that a lot of the companies in the region -- I know my company, we have crews that work only with contaminated sites. And it seems to me like it would be pretty important to do that, and if

remediation work to install a basin that would be 1 2 immediately to the east of the west end 3 remediation that was done already.

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There will be a basin I believe about 4 and a half acres possibly. It would not be one, the way we're presently anticipating it, that would be holding water there. But it would be one to control the sediment that would be on the site.

We would still be allowing the water to run off in a gradual fashion, but trying to keep any of the sediment from running off at the site. It would be a segmented type of sedimentation basin to kind of slow down the flow as it was going through there and eventually go through some sort of a bottom drain. It would be on the western portion of the site about a third of the way in.

It would eliminate -- if you're real familiar with the site -- it would probably eliminate that southernmost ditch on the SLAPS property itself, and would also eliminate the ditch that's on the north side of SLAPS, but on the south side of McDonnell Boulevard.

So it would take both of the ditches that run on either side and run them into the

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you're going to do that, are you going to use Corps of Engineer surveyors or are you going to subcontract the work out? Or do you have any idea yet?

MR. FREEMAN: As we get into the actual construction we will be using whatever contractor we're using on that particular site. There are a number of contracting mechanisms that we will be using. We're going to be starting on the east end with one particular contractor. That might be the same person that would be doing the surveying work for us. That hasn't been let yet either.

COLONEL HODGINI: Thank you, Jason. Other questions?

MS. PRICE: My name is Sally Price. I'm on the Oversight Committee. I saw the material here tonight on this handout, sedimentation basin. And I don't know where that's going to be. You're going to construct that in June of 1998. Can someone speak to that?

MR. FREEMAN: As part of controlling the material that's on the site and reducing any of the run-off that may eventually impact Coldwater Creek, we're proposing as part of our

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sedimentation pond. We try to control all the water and funnel it down into one place.

MS. PRICE: Into the center? 4 MR. FREEMAN: Right.

COLONEL HODGINI: Can you address the time frame for that, Tom?

MR. FREEMAN: We were hoping to do that as one of the very first options, just to be able to control the material on the site to prevent any kind of future run-off of material from the site.

> COLONEL HODGINI: And the duration? MR. FREEMAN: As far as construction? COLONEL HODGINI: Right.

15 MR. FREEMAN: I think that they were

16 looking at something that would probably be able 17 to get in there in about 3 or 4 months. So 18 hopefully having it done this fiscal year.

19 COLONEL HODGINI: Other questions or 20 comments? If not, I invite my staff, if anyone 21 would like to comment on anything.

DR. MULLINS: Just one quick reminder. We'll be accepting comments between April 6th and April 9th, April 6th for SLAPS, April 9th for the

Hazelwood site, and we really want to hear from

you. So we've got some postage paid comment forms in the back to make it easy for them to get to us. Please use them. We thank you for coming. Anybody else?

COLONEL HODGINI: Okay. In the way of closing I would make one comment myself. We in the Corps of Engineers in the St. Louis District have a lot of experience working on different projects, like I mentioned earlier in our briefing, flood control, navigation, environmental, stewardship, projects that cross a broad spectrum of work.

And most of our projects are done in conjunction with sponsors and in partnerships with sponsors. So we're very accustomed to this mode where we work arm in arm, if you will, with our partners

I do appreciate your comments. We listened. I listened. And I heard a trend in several of your concerns. So we will go back now and look at that and continue to evaluate our project management plans and some of the technical aspects of our plan as we move forward.

Again our commitment is -- my eyes are focused on that objective, the final objective,

STATE OF MISSOURI)
COUNTY OF ST. LOUIS)

I, Sandra L. Ragsdale, a Notary

Public in and for the State of Missouri, do hereby
certify that I caused to be reported in shorthand
and thereafter transcribed the foregoing
transcript of proceedings.

I further certify that the foregoing is

I further certify that the foregoing is a true, accurate and complete transcript of my shorthand notes so taken as aforesaid, and further, that I am not counsel for, nor in any way related to, any of the participants in this proceeding, nor am I in any way interested in the outcome thereof.

Witness my signature this 23rd day of MARCH, 1998. My Commission expires 7-20-2000.

Sandra L. Ragsdale

remediating just as quickly as possible. Again thank you for your attendance. Have a good evening.

(Whereupon, the hearing was concluded at 8:45 P.M.)

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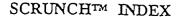
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