

RESTORATION ADVISORY BOARD  
NAVAL WEAPONS STATION EARLE  
MONMOUTH COUNTY

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IN THE MATTER OF THE |  
PROPOSED REMEDIATION PLAN | TRANSCRIPT OF  
FOR SITES 1, 10, 11, 13, | PROCEEDINGS  
26 & MINE BATTERY SITE |  
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January 15, 2003  
Colts Neck Township  
Library  
7:00 p.m.

RESTORATION ADVISORY BOARD

LAWRENCE BURG  
JOHN MAYERSKI  
GUS HERMANI  
NANCY ELDREDGE

APPEARANCES:

TETRA TECH NUS  
BROWN & ROOT ENVIRONMENTAL CORPORATION  
BY: RUSS TURNER  
King of Prussia, PA

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WITNESS

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1 MR. BURG: Part of this evening's  
2 meeting is going to be a public review or a  
3 public comment period as a requirement for one of  
4 the sites which we're -- We have a reporter  
5 here and he' be recording what you have to say,  
6 and any questions that you might have regarding  
7 that site. Also, if there are any comments  
8 regarding the status of the site.

9 If you have any concerns about being  
10 recorded or the questions and comments being  
11 recorded, please feel free to state so and we'll  
12 turn the machine off. Otherwise it become a  
13 written record that goes with the file for that  
14 particular site. So if you have any reservations  
15 about speaking on the record, just say and give  
16 the stop light.

17 About a little over a year ago, a year and  
18 a half ago, Greg got offered a job with the Army  
19 Corps. A little over a year ago, he took that.  
20 He's working out of New York City. The Army Corps  
21 has a program of formerly used defense sites  
22 projects. He's working throughout the region  
23 New York, New Jersey, Pennsylvania I guess mostly  
24 remediation of cleaning up sites sites for the  
25 Federal government primarily, the DOD and for the

1 Army Corps. So the program is still in a bit of  
2 transition.

3 I'd also like to point out a couple of the  
4 people that are here from Earle, which you  
5 may or may not know. Gus Hermani, he's the  
6 supervisor for the Department of Health program.  
7 Nancy Eldredge, who is the Public Affairs Officer.  
8 Lester Jargowsky, Monmouth County Health  
9 Department. He is the administration advisory  
10 board co-chair. And, of course, Greg Saranson  
11 who may decide the chairmanship. In the third row  
12 we have Rick Woodworth who works for Foster  
13 Wheeler, who's been doing part of the field  
14 projects for the Army Corps, construction of the  
15 Army Corps and perhaps overseeing part of the on  
16 site activities for them. Bob Marcolina who is  
17 here from the New Jersey Department of  
18 Environmental Protection and he is also  
19 representing BCM. To clarify that, not to  
20 downplay it. Because we have normally here,  
21 Jessica Mullin who's the Region Two Site  
22 Representative. We sat down, a bunch of us here,  
23 sat down this afternoon at a board meeting and  
24 Jessica was present at that. We did that to kind  
25 of make sure all of us are on the same page. As

1 far as what we present here and to kind of review  
2 the projects and keep one up on them. Jessica was  
3 present at the meeting. There were no hard  
4 feelings or anything between the two of us so...

5 Chris Kerlish is here. He and his  
6 associates are doing studies and still monitoring  
7 the sites at Earle. Russ Turner is here from  
8 Tetra Tech. They do a lot of the up front  
9 studies, feasibility studies, proposed studies and  
10 things.

11 James Fisher is here to record our  
12 meeting. He's a subcontractor. Finally, we have  
13 Michele DeGeambeardino. She is our program  
14 manager. She works out of Lester, Pennsylvania  
15 just south Philly. And she handles the contracts  
16 both for Earle and on a wider scale up to Maine.  
17 I just met John Mayerski. I'm sure I'm familiar  
18 with the names. I haven't met a few of the  
19 ladies. But if you want to introduce yourself,  
20 that's fine.

21 MS. BROWN: I'm Sharon Brown. I'm here  
22 for two reasons. One, I was at the --inaudible  
23 -- the Restoration Advisory Board when it got  
24 approved. Several years ago I came to the  
25 meeting and I'm a Tinton Falls resident and I

1 also own a small environmental consulting firm out  
2 of Asbury Park. And I've been trying for the  
3 last eight years to get some work on site. I've  
4 met with Dave Rule at NAPBAK. I met with people  
5 at Foster Wheeler up in Langhorn, and I'm here  
6 again. I'm persistent and I'm hoping that I'm  
7 going to come up to speed and find out what's  
8 going on and try to provide some input.

9 MR. BURG: What's the name of your  
10 company?

11 MS. BROWN: Environmental and  
12 Occupational Safety Services. We're in Asbury  
13 Park. I'm trying to do some work with the NJDEP  
14 with which you may be familiar. Thank you.

15 MR. BURG: I should apologize to  
16 everyone. I do apologize for the way things have  
17 been turning out. I mentioned still being in  
18 transition and will probably still be. A very  
19 large breadth of things have gone into this  
20 program and it gave me a great deal of respect  
21 for what we've doing and what we've been asked.  
22 I'll do what I can and, again, hopefully improve  
23 things a little sooner.

24 One thing I wanted to mention as part of  
25 our Command's direction has been not to pass out

1 materials at the meetings. Specifically maps and  
2 overhead photos. And it's also part of the  
3 reason we have not produced too much stationary  
4 work. For security matters we're not passing  
5 them out. We will be putting together minutes of  
6 the meeting. If you have any specific requests  
7 that you would like some information you can  
8 address it to myself or Nancy Eldredge, and we  
9 will try to accommodate that. We have been trying  
10 to keep much of the material go out by Haxton's.

11 The format we're going to do tonight, we  
12 did some slides. We're going to go through  
13 actually six sites this evening, five sites. I'm  
14 going to kind of introduce it. Very briefly go  
15 over the site history where it's located.  
16 Actually all the sites and where municipality lies  
17 and we'll located within Colts Neck. We'll kind  
18 of roughly go over where they are in station,  
19 geographically and see the history why there's a  
20 site.

21 For the most part we will dishing it off  
22 to the various contractors that we have that are  
23 working those sites at this time. And they'll be  
24 able to discuss in further detail what's  
25 happening and also answer some of the questions

1 that you have.

2 That's just the agenda. The site we threw  
3 in was site 16, which is a forest looking stretch  
4 for the fire department. We'll get into that I'm  
5 sure. Thank you.

6 MR. TURNER: Site 1, it kind of  
7 runs hand in hand with Site 11 which is -- it's a  
8 couple down. This was an old range. They did  
9 some burning here, if you can read some of this,  
10 from about 1943 to 1974. The site's been  
11 investigated. We have some data developed  
12 through our site investigations that indicate a  
13 lesser mediation approach than it may have had a  
14 few years ago. We were looking at scraping some  
15 of the soils off.

16 I'll just pass it over to Russ. He's got  
17 some additional slides.

18 MR. BURG: Another good thing Greg  
19 did, he developed a community relations plan, kind  
20 of an annual report, which lists all the sites.  
21 This is the format we have in it. You can see a  
22 brief history of the site, description of what's  
23 happening as far as status. What we have here is  
24 an ortographic photo of a fly over Monmouth  
25 County in '94 or '95 . I'm going to blow it up,

1 it's kind of hard to see. It's kind of a  
2 panoramic view of the site. And if you can make  
3 this out, roughly where the site is located.  
4 Route 34 bisecting the base here. This is the  
5 northern border of the base. Normandy Road sticks  
6 out at the top and Route 18 would be roughly in  
7 here. The Colts Neck Township border is this  
8 line here. So as to kind of give you the feel  
9 of where the sites are located geographically in  
10 reference to Colts Neck.

11 MR. TURNER: Okay. We're going  
12 to reiterate the movement of that from the slides  
13 I have. But what is shown would be the location  
14 and site description, summary of activities. And  
15 the history a little bit here. What kinds of  
16 things have been done there.

17 In the process of the RIFS here is the real  
18 investigation, the feasibility study. In other  
19 words the FS stage, a feasibility stage, which  
20 is, quote, "What are the alternatives for putting  
21 at the site?" So I'll be showing those and also  
22 cost estimates. I'll show you these, the sequence  
23 following the work at that site would be. Now  
24 the location I've covered pretty well already.

25 Site 1 is in the north central area of the

1 facility. We'll kind of give a second to look at  
2 that to see where your points are. Can everyone  
3 see where that site is oriented?

4 MR. TURNER: Can everybody see  
5 that okay?

6 Can I try to get it a little bit larger  
7 back at the table or something?

8 MR. BURG: Is everything okay so  
9 far? Okay. All right.

10 That, by the way, is near the  
11 Administration Center where the Navy has its  
12 administration offices.

13 Next slide we show, it talks about the  
14 history of the use. This is an aerial photograph  
15 of the site which is really in the center of that  
16 photograph there. You can see the roadway on the  
17 right. It's an active roadway. You can even  
18 see there's a little walkway on the right-hand  
19 side. That's the site, right there to the left  
20 of that walkway there. It's bordered on the  
21 north by that railroad track that runs from left  
22 to right across the photograph and bordered all  
23 around by an earthen berth. So you can see to  
24 the lower left there are trees and the site is  
25 sort of brownish in this photograph. It's in the

1 winter time.

2 The site is about six acres and the Navy  
3 investigated all media at the site. Can everyone  
4 hear me okay? Any questions, just shout them  
5 out.

6 This is a photograph of the site features.  
7 The media of concern at the site is brown water  
8 only. The compounds of concern are metals,  
9 arsenic, chromium and iron. There's a high level  
10 of iron there. Ground water flow at this site is  
11 to the north northeast.

12 What the Navy has been doing here for a  
13 number of years, not very many actually, a number  
14 of years anyway, burning of explosive mortars.  
15 Okay, some small arms were disposed of.

16 Okay, in the FS process as everyone's aware  
17 of, the federal guideline calls for the engineers  
18 to look at what the reasonable alternatives are  
19 and prepare a range of alternatives.

20 In this case, the alternatives that we  
21 came up with are no action required by the  
22 guidance. And the second alternative is long  
23 term monitoring and with limited action. And  
24 third is limited action, institutional controls  
25 due to long term monitoring.

1           Now the difference between number two and  
2 three is essentially going through a process of  
3 classification exception area that would insure  
4 through land use controls and implimentation of a  
5 process which we think, that NJDEP that remarked  
6 that ground water beneath the site would not be  
7 used for the duration of the classification  
8 exception area. And that requires five year  
9 reviews and a review by the State NJDEP. So you  
10 see there are cost estimates as well.

11           MR. TURNER: No.

12           MR. BURG: We'll get more to my  
13 slides and we'll follow with the process. The  
14 rebuttal together is a single operating unit we  
15 expect. And also within the same area a little  
16 east of the admin area. This is the location to  
17 the...

18           PUBLIC: (Lester Jargowsky) Excuse  
19 me, can we have questions as we go by tonight?

20           MR. BURG: Yes, absolutely.

21           PUBLIC: (Lester Jargowsky) On  
22 that first site, did any of the markering loss, --  
23 inaudible -- have any type of explosive residue  
24 work. Any type of...

25           MR. TURNER: No, not now. There

1 were a series of investigations. And in an  
2 earlier investigation probably the year would be  
3 late eighties. At some investigation so more than  
4 ten or fifteen years ago, an explosive top  
5 -- inaudible -- however wasn't duplicated in any  
6 investigations.

7 PUBLIC: (Lester Jargowsky)

8 Now the burning that you talked about there, was  
9 that the cranker -- inaudible -- where they have  
10 small arms and where they have -- inaudible -- or  
11 was that aside from this? -- inaudible --.

12 MR. TURNER: This would have been  
13 open burning on the ground.

14 PUBLIC: (Lester Jargowsky)

15 An open burn?

16 MR. TURNER: Yeah. It will be under  
17 details.

18 MR. BURG: I think I remember  
19 reading, I don't know if it was within your  
20 report, from all the history where when they  
21 decommissioned or stop using a site I believe they  
22 tilled the soils and they also took sautee or  
23 gasoline sautee and we'd burn the site a  
24 couple of times to try and liberate any of the  
25 fugitive explosives, explosive components,

1 whatever would have been on the site. So they  
2 took some crude in efforts to try and eliminate  
3 that developing on the site.

4 MR. TURNER: You need to know that  
5 was the typical method using fuel oils sautee or  
6 something like that.

7 MR. BURG: Just trying to burn off  
8 the rest of it.

9 PUBLIC: (Lester Jargowsky) In  
10 terms of the heavy metals that were in ground  
11 mortar, I mean, the metals. Are we talking just  
12 above standards, or very high above standards,  
13 would you clarify that?

14 MR. TURNER: Yeah, they're just  
15 barely above the engine, the ground mortar  
16 standards DWQS, Army standards. I would guess  
17 that in a few years that they would naturally  
18 become lower in standards.

19 PUBLIC: (Lester Jargowsky) That's  
20 why I was asking the question.

21 MR. TURNER: It's so close. They're  
22 just about there. You know the standards --  
23 inaudible --. But not everyone knows it as well  
24 as you do. So thanks for the question.

25 MR. BURG: John?

1 PUBLIC: (John Mayerski) Yeah. A  
2 little background since I worked there all during  
3 the time period that we're using that site. They  
4 did have a structure above grade, reenforced  
5 concrete and very thick steel. And what happened  
6 what cost the unit in the nature of that work  
7 there is that totalin -- inaudible -- took  
8 place. One of the Navy fellows went a little too  
9 soon after the detonation and yet one was just  
10 laying there waiting for him fortunately. I think  
11 he was 21 maybe with his girlfriend. --  
12 inaudible -- that's a safety device do away by  
13 this -- inaudible --. They didn't do any,  
14 obviously we caught them. It's their stuff that  
15 had flown away.

16 MR. TURNER: One more. Yes,  
17 basically, if anybody is interested, these are the  
18 former burn trenches. Probably it came from the  
19 aerial photographs and studies. The open burning  
20 of open detonations typically if they do it, it  
21 will be all grade, you know. And these were the  
22 trenches, these two trenches. They may have  
23 changed them. It's hard to...

24 MR. BURG: Do you have any other  
25 questions or comments?

1           Move on to Site 11. Site 11 also is even  
2 a lower profile as far as the contaminants that  
3 are present and the course of action we are  
4 seeking to take. It was an area, again, just east  
5 of where we were previously so look in the same  
6 general vicinity. Area used by the fire  
7 department for different drills, lighting cars on  
8 fire, extinguishing them. This is an area also  
9 where we're limited in what we can do. We have  
10 evidence of neiscon beak, well actually beaked  
11 rush which is a type of grass that's present on  
12 site. It is listed as an endangered species so we  
13 are very limited as far as moving around out  
14 there.

15           MR. TURNER: Okay, in this case, I  
16 would... Yeah. This case is the same. It's a  
17 box area of about two acres. It's about a two  
18 acre site. People say it's a fan shape surrounded  
19 by wetlands, a real wetlands area pretty much  
20 levels there. Nothing occurs here at the site  
21 now. It occurs as a degree of reference here as  
22 it appears.

23           MR. BURG: Yeah. It's locked up  
24 with restricted access to the site.

25           MR. TURNER: It turns out the media

1 concern here is none. After the, it was  
2 occasionally used for fire training. Really just  
3 for three years, 1974 to 1977. Like Larry  
4 mentioned small volumes of fuel were used to set  
5 vehicles on fire for fire training. That water  
6 flow, once again, is to north northeast, turns  
7 then south. After review of the site conditions  
8 we really need recommend, after speaking to DEP  
9 and EPA, no further action is proposed here. The  
10 only issue is that there is this neiscon beaked  
11 rush, endangered species grass. And the site, we  
12 believe that the -- inaudible -- is facing the  
13 Toms Utility. Toms Utility already has a project  
14 to promote the propagation of the grass.

15 PUBLIC: (Lester Jargowsky) Is he  
16 going to do that? I've been there.

17 MR. TURNER: Excuse me, on this  
18 topic he does cut the grass.

19 MR. BURG: Believe it or not they  
20 mow it.

21 MR. TURNER: They do mow it. Right,  
22 yeah, I think it is.

23 PUBLIC: (Lester Jargowsky) It  
24 seemed to me like the deer were winning.

25 MR. BURG: There's a lot of

1 speculation that we wonder if the beaked rush  
2 exists now. We don't really know. But I don't  
3 know that we can control it.

4 MR. TURNER: I'm trying to find out,  
5 Les, whether or not I can actually take some of it  
6 and plant it and keep a bowl I guess and tell  
7 people don't step on it. I'm not sure if I'm  
8 allowed to.

9 Okay, we're coming up to the two sites,  
10 landfill caps are to be placed on these sites  
11 currently by Foster Wheeler until about Friday.  
12 But this was a decision on these landfill caps  
13 when that passed a couple of years. We actually  
14 just mobilized when we saw approximately smoke  
15 -- inaudible -- out at the site this past fall. It  
16 was...

17 MR. BURG: October.

18 MR. TURNER: Late October.  
19 Everything pretty much is tracking normally. This  
20 was a site just domestic industrial wastes on the  
21 southern portion of the base. This turns out to  
22 be out of Homestead township. There's a  
23 cisco map of the site which relates to Homestead.  
24 We'll get to that next. And we've been working  
25 very diligently.

1           Unfortunately the last couple of weeks  
2 we've had a lot of rains which has compromised  
3 the ability to work out there. I believe as far  
4 as moving trucks back and forth across through  
5 the routes and to an off base and also  
6 construction of -- inaudible --. So what they're  
7 doing, Foster Wheeler has completed team  
8 mobilizations which was not planned. And  
9 remobilized to the sites for the April, before the  
10 April time frame that applies out a little bit to  
11 complete construction. But we've, I mean it's run  
12 fairly smoothly. That's before a contracting  
13 officer. I'd just like to say I have a few, a few  
14 comments -- inaudible -- to add as far as these  
15 two landfill caps.

16                   PUBLIC: (Rick Woodworth) I'm  
17 really not interested. They'll be mobilizing in  
18 late April and I think our remaining scope is six  
19 weeks. So when we begin we'll try to complete by  
20 the end of May.

21                   MR. BURG: All right. We've  
22 discussed it in your absence so we put them about  
23 the end of June. As far as having all the various  
24 expense of securing the site. The other landfill  
25 cap which is being done at the same time and the

1 same contract is Site 10. This was a little  
2 closer to the main site in this gray area. And if  
3 you come on the base you could see these trees.  
4 These are pretty much all cleared out now. The  
5 caps for the most part have been put in place.  
6 The same thing. This is in proximity to  
7 another ordinance disposal site and John, feel  
8 free to jump in.

9 PUBLIC: (John Mayerski) It was  
10 unusually wet years ago. Outside rain fill?  
11 --inaudible --.

12 MR. BURG: This is actually up a  
13 little bit higher than the rest of the site.  
14 It's up on a little ridge.

15 PUBLIC: (John Mayerski) Does the  
16 movement of road go straight up?

17 MR. BURG: If you remember, FA2 I'm  
18 sure that was the case. FA2 is right down the  
19 street. Right over here. Up until about two  
20 years ago it was a stock metal holding yard. All  
21 kinds of scrap metal would come in there. And  
22 basically old casings and things. But again  
23 that's tracking very nicely and expected  
24 completion this June. Which is still a long term  
25 on that.

1           Oh well, the bio surper unit. This was  
2 a case where again the administrative areas. This  
3 was a locomotive repair facility way back when. I  
4 don't know when the gas station got shut down but  
5 the facility, well, maintained a gas station in  
6 this area. There was also a pipe leading over to  
7 the locomotive repair facility. And over a number  
8 of years after I guess after testing that system  
9 it was determined that for a number of years the  
10 pipeline had leaked.

11           So Foster Wheeler has installed two bio  
12 surping units. Basically drawing ground water  
13 out of the water table scrubbing it through clay  
14 and hardened filtration units and returning the  
15 water to the ground and treating the oils. To  
16 date, it's been working since ninety seven,  
17 ninety six.

18           PUBLIC: (Rick Woodworth) It has  
19 two more years of monitoring.

20           MR. BURG: There's been a number  
21 of years of monitoring. Over the course of the  
22 last five or six years they've reformed five  
23 thousand gallons of fuels. But we continue in  
24 addition to what Foster Wheeler is doing as far as  
25 actively trying to draw up and filter the ground

1 water and to clean that up. Tetra Tech is still  
2 working for us also on a broader scale with sentry  
3 wells and monitoring wells throughout this area.

4 If you can see it here, this is the GPU  
5 power line right of way. We have monitoring wells  
6 throughout this area which bound a plumb from  
7 that leak. Which is fairly expensive and just  
8 recently within the last few months we find we  
9 hit upon areas where we have non detects. In  
10 other words, we have no evidence of any further  
11 contaminants. So after two years of poking  
12 around a little bit, trying to find the balances  
13 on the north boundary. Again, we keep DEP  
14 informed and file the reports as far as what we  
15 know in expanding the area of the investigation.

16 PUBLIC: (Sharon Brown) When do  
17 you anticipate that your process will be  
18 completed by the bio surpers?

19 MR. BURG: Is that true that bio  
20 surpers kind of run into their plane? If you  
21 care to jump in, you're more familiar with it.

22 MR. TURNER: Depending on the ground  
23 water levels, and of course in the summer we have  
24 depressed ground water levels so we don't get the  
25 kind of recharge. There will be less water in

1 the ground. We have to work twice as much to  
2 scrub it out. -- inaudible --

3 PUBLIC: I guess what I'm asking is  
4 Tetra Tech over there grabbing their samples from  
5 the wells and seeing precipitous drop in the  
6 levels?

7 MR. TURNER: I would say it's a slow  
8 drop. We're seeing decreased levels but nothing  
9 momentous.

10 MR. BURG: If the bio surping is  
11 continuing still seriously so we haven't seen any  
12 progress towards the clean up kind of a thing?

13 MR. TURNER: We did, I think as  
14 far as the antar mark we're seeing decreasing  
15 levels of contaminants.

16 MR. BURG: Some wells we do. Yes,  
17 yes, absolutely. Yeah.

18 PUBLIC: We're seeing definitely the  
19 decreased levels of product. There's no question  
20 about that. I mean, we started out, we had almost  
21 like a foot in product in one of the wells by  
22 building 16 and that's come down significantly.

23 PUBLIC: And I think what you might  
24 be asking is we're still seeing increases to a  
25 level that we're not revisiting whether the bio

1 surpers run material. But continuing this,  
2 don't progress.

3 MR. BURG: I believe we have some  
4 leeway too with the operation that we convert.  
5 We're not seeing heavily covered rains. They are  
6 seasonal. Over a period of time if it shut down  
7 it's turned up. They're both... The amount of  
8 material we have recovered and the contaminant  
9 levels on a quarterly monitor are slowly coming  
10 down.

11 PUBLIC: If you follow that trail  
12 when you get to the end. I'm not really sure we  
13 that we're at the end of that but does the plumb  
14 follow the tracks or do the tracks go into another  
15 direction?

16 MR. BURG: It actually does.

17 PUBLIC: Is it like following the  
18 conduit of the new tracks?

19 MR. TURNER: No, it's heading north  
20 in the same direction parallel to the tracks.

21 MR. BURG: It does kind of, what  
22 you're hinting at, it does kind of run along the  
23 tracks. Where it's dead ended at this point is  
24 where the tracks meet the GPU right of way. Where  
25 you have where we did some filling when the green

1 tower was there. Which is in an area of compacted  
2 soils with a rail bed -- inaudible --. I don't  
3 know if you got some surface results too --  
4 inaudible --. That's pretty much where it is.

5           Going back to your question, first part of  
6 your question, I think you were getting at how  
7 long we anticipate really operating, I can't say  
8 right now because we are still recovering product.

9           PUBLIC: And every time we hear the  
10 submission that's obviously something that we  
11 revisit. We saw drastic changes than we would and  
12 argue from that respect.

13           MR. BURG: I think the most recent  
14 annual numbers might come from the sentence in  
15 this, approximately like five or six hundred  
16 gallons a year which is a significant amount. I  
17 think you can draw that.

18           MR. TURNER: I don't know what the  
19 threshold would be when we stop and say okay,  
20 that's enough, we're just going to monitor.  
21 That's not doing it any good -- inaudible --. We  
22 can balance out that's all. As far as cost is,  
23 it's part of recovery.

24           But again, we review this about quarterly.

25           MR. BURG: Site 26. This is just

1 on the border of Colts Neck on the southern side.  
2 Again a shop where the various conditions are  
3 maintenance. We have trichlorethylene plumb which  
4 was discovered here and Foster Wheeler has an air  
5 sparging system which is similar to the bio  
6 surper. It's forcing air into the ground and  
7 extracting that air and scrubbing that until it  
8 becomes carbonated. This unit started operation  
9 about a year and a half ago, summer of 2001. And  
10 we've seen some really excellent recovery rates in  
11 excess of 75% of wood was estimated to be  
12 contained in the sub surface and also the ground  
13 wells.

14 MR. TURNER: The next report is to  
15 be approximately in June and at that time we'll  
16 revisit the levels that were receding. If it's  
17 working to continue with this system or possibly  
18 try an approach of shutting down the system and  
19 then monitoring from that. We discussed that with  
20 NJDEP and EPA today but we won't know until the  
21 next report comes in and we are clarificated that  
22 we proceed. So basically that's how we'll be  
23 reviewing it.

24 MR. BURG: Again, some of the bio  
25 surping ordered based on the cost it takes to

1 operate the system. Is it worth it basically,  
2 is it worth recovering the amounts of material  
3 that were recovered. So if we can we'll be say  
4 to the EPA and operate that intermittent to next  
5 month.

6 PUBLIC: What rate of return do you  
7 have thus far? I mean, can you give us that on a  
8 slide? Can you give us an idea, you know, how  
9 successful you've been?

10 MR. BURG: It sounds really  
11 ridiculous but.

12 MR. TURNER: Actually, we did take  
13 it out of the slide because it said a gallon. A  
14 gallon and to you a gallon seems like I guess.

15 MR. BURG: Well, if you told Lester  
16 a gallon of serance you never -- inaudible --. If  
17 it sounds like a very little amount but based on  
18 toxicity perhaps help the environment. Again, if  
19 it's that much. It's not a whole lot. It doesn't  
20 sound like a whole lot. A hell of a lot of money  
21 has been put into getting that much.

22 PUBLIC: But have you captured it or  
23 did a whole lot more get away from it?

24 MR. BURG: Well, the material is  
25 absorbed by the carbon. And the carbon, I guess,

1 is sent out through these holes of water to get  
2 that recharged. So it's not captured per se. I  
3 don't know you go about measuring. There's a  
4 measuring mark. Second, because you measure the  
5 carbon weight and after.

6 PUBLIC: No, no. The air stream,  
7 the insulin going into carbon in the unit that  
8 keeps from what you're, counts the vapor. It will  
9 count the PE in the vapor that you're removing and  
10 also as far as the plumb goes, we have --  
11 inaudible -- grading. There was no indication  
12 that TZ has reached that so it could be that the  
13 system is at least, or it's indicating that the  
14 system may include in check at this time.

15 PUBLIC: What about the soil?

16 PUBLIC: There's water in the  
17 aluminum that's been affected by.

18 MR. BURG: Water is a media that's  
19 being checked to gauge the contaminant water  
20 -- inaudible --

21 PUBLIC: Have you had any soil  
22 removal at Site 26?

23 MR. BURG: Well, on site.

24 MR. TURNER: Because of it, you  
25 remember?

1 MR. BURG: We took out, there was a  
2 settlement basin.

3 PUBLIC: A seepage tank?

4 MR. BURG: A seepage tank. That was  
5 removed along with some hot spot soils, I think.

6 MR. TURNER: Especially if there's  
7 one source. There's a well identified source  
8 behind the building and spills occurred there so  
9 the source was removed in 1998 around there. And  
10 so there was also clay later -- inaudible -- so  
11 it's a compliant surface not to a widening extent.  
12 It's a well compliant plumb -- inaudible --.  
13 These were the clay area.

14 MR. BURG: Mine battery site. On  
15 the overhead picture, that's Route 18. So just  
16 inside of the fence line with Route 18 here, this  
17 is a perimeter road along the fence lines.  
18 There's a pond which, you should have clarified  
19 this for me earlier, Chris but.

20 PUBLIC: (Chris Kerlish) Mine  
21 battery.

22 MR. BURG: This perimeter here  
23 towards to Mine Brook which feeds directly into  
24 the Swim River Reservoir. This was a disposal  
25 site for actuators which we used in refurbishing,

1 actually it was used in mines. And what they have  
2 done with it just goes in the pond for whatever  
3 reason.

4 PUBLIC: Do you remember, Chris,  
5 the history of what's going on here?

6 PUBLIC: (Chris Kerlish) Basically  
7 what we, we're not expecting it to be the ones to  
8 be buried along the side of the pond. It turned  
9 out that most of them were put into the pond.  
10 Some time after 1980 part of the pond was dredged  
11 to get them out. And they were picked up for the  
12 most part but some did remain.

13 When we went out we did some tests  
14 basically to see if anything was buried there. We  
15 did some soil sampling, sampled ground water,  
16 sampled the surface water in the pond and in the  
17 actuator and basically what we found was that  
18 there are some levels of arsenic. Arsenic it  
19 turns out was not used in the actuators  
20 themselves. So it is not showing a pattern.  
21 There's a couple of other related metals but for  
22 now they all appear to be a result of background  
23 concentrations within the soil.

24 What we're doing is we're going to be  
25 taking another look at some stabilizing and some

1 on the station background concentrations of the  
2 soil compare them to our results and see how they  
3 match up. We're going to do a little bit more  
4 sampling of the ground water and try to do some  
5 sampling in the tributary before the Mine Brook  
6 -- inaudible -- again. The west pond flows into  
7 it.

8 We'll see what's going on in the ground  
9 surface water there and if as we're expecting it  
10 all turns out to be reasonably naturally kind of  
11 stuff, it's probably going to result in a  
12 housekeeping of the actuators looking into the  
13 pond and whatever is left from -- inaudible -- on  
14 the shore area. And that's really about it.

15 PUBLIC: Can you explain what an  
16 actuator is. Does it have killable components or  
17 it's just electronics, or? What is it actually?

18 PUBLIC: I'm not sure exactly what  
19 an actuator is. But this particular component  
20 would be dry plate because it's all rusted out  
21 now.

22 PUBLIC: No, it's mostly. Most of  
23 it isn't known. It's actually a plastic housing.  
24 It has full battery chips in it. Dry cell cavity  
25 chips with a battery and a core which was

1 electronics. And the nearest I can figure was  
2 this was part of a timing mechanism on marks. Why  
3 these particular components were taken off and  
4 dropped by the pond I don't know.

5 MR. BURG: John, would you.

6 PUBLIC: (John Mayerski) The acid  
7 you found, is that related to the batteries  
8 themselves or is it from an unknown source? You  
9 said you found arsenic.

10 PUBLIC: (Lester Jargowsky) No.  
11 No, it doesn't carry this. Arsenic has been found  
12 naturally occurring all over Monmouth County.

13 PUBLIC: (Sharon Brown) Right.

14 PUBLIC: Especially in orchards.

15 MR. BURG: And there is no arsenic  
16 in the actuators themselves.

17 MR. BURG: Not that I know.

18 What we had -- inaudible -- force, we actually,  
19 the cannon weapon provided. They took one of the  
20 actuators off site burned it up and did a few  
21 field tests where you take a component and swirl  
22 it around in slightly slick water to make it  
23 simple to see what would typically recharge that  
24 component were it to remain in the soils around  
25 -- audible -- and see what would recharge. And it

1 at had fairly low levels on it.

2 Again, the arsenic came off but as Les  
3 mentioned there's a number of studies which we're  
4 trying to compile and used to back up our opinion  
5 that the arsenic that we're finding on the site  
6 was pretty much from underground wells in the  
7 orchards and farms that were out here. That was  
8 the reason for the pesticides.

9 And one of the things we're kind of  
10 balancing with the site, just sticking with this  
11 pond, is it's obviously a weapons area. It's  
12 fairly sensitive. Based on a threat posed by the  
13 actuators there's not really too many hazardous  
14 constituents in and out. It's more of a solid  
15 waste if you will.

16 PUBLIC: It wasn't there to begin  
17 with.

18 MR. BURG: Which is a downside. But  
19 we also don't want to go in and tear up the  
20 entire site to do a hundred percent cleanup and in  
21 effect stir or destroy the weapons in that area.  
22 So, again, looking at the background levels, we do  
23 plan to go in and, as Chris mentioned, do some  
24 additional housekeeping.

25 If you heard, there's a section of the

1 pond that once was a -- inaudible --. It's now  
2 about ten feet deep. We're going to dredge these  
3 actuators and just kind of drop them on the banks  
4 in the area surrounding. There is still an area  
5 that's about four feet deep or so and that we  
6 feel we can reach with clam rakes if you will.  
7 Just kind of scrape out the remainder of what we  
8 can see and what we find with a minimal  
9 disturbance to the site and clean up the majority  
10 and whatever else we can find.

11 PUBLIC: (Sharon Brown) I think I'm  
12 the only Tinton Falls person here. I'm curious  
13 about how any of the contamination on the site or  
14 post has effected swimming -- inaudible -- the  
15 Swim River reservoir. Because that's where, you  
16 know, the vast majority empties. Maybe you can  
17 correct me on this so I'm accurate about this but  
18 isn't that where New Jersey American Water routes  
19 our water drinking?

20 MR. BURG: A portion of it. I'm  
21 sure they have other -- inaudible --.

22 PUBLIC: (Sharon Brown) Have there  
23 been any thing?

24 MR. BURG: No, we have no indication  
25 that -- inaudible -- come through to our station

1 through the tributaries to the different  
2 reservoirs present concern.

3 PUBLIC: (Bob Marcolina) Larry,  
4 during the remedial investigations a study was  
5 done. We sampled all the surface water and the  
6 sediments coming off...

7 PUBLIC: (Lester Jargowsky) That  
8 was actually a demand by the RAB, the citizen  
9 group, going way back a couple of years. Before  
10 we even wanted to hear about investigations going  
11 on the site, we want to set the stage to know  
12 what's coming off the base. And RAB asked the  
13 Navy to sample every single stream coming off the  
14 base for any water problems and sediment and  
15 give us data back so we know right away up front  
16 and not to wait for years and years of study of  
17 that site and then find out later there's  
18 something wrong. We wanted to know up front, was  
19 there an immediate threat and they did it right  
20 away to our amazement. Okay, and it was great  
21 data. We started off at least on a positive  
22 foot.

23 PUBLIC: (Bob Marcolina) And also I  
24 think to back that up, I remember you did that  
25 project with the kids from Brookdale or something,

1 a bio assessment. That went pretty well too.

2 PUBLIC: (Lester Jargowsky) That  
3 corroborated the findings from the RAB.

4 PUBLIC: (Bob Marcolina) When it  
5 came to sample the -- inaudible -- bendrick macral  
6 vertebrates in several of the streams, they had  
7 the school kids come in and we had our trained  
8 people with them. We had a DEP teacher from the  
9 project there as well with us. And we were  
10 actually amazed. The kids were amazed too from  
11 the amount of life that's in their streams, high  
12 quality life. That's why stream wise there was a  
13 lot of high quality life. The Base Commander had  
14 got involved back in that time frame and he took  
15 great pride in those little critters coming out of  
16 these streams.

17 PUBLIC: (Chris Kerlish) We're also  
18 taking notice that this is really pretty far  
19 up stream from the reservoir?

20 PUBLIC: (John Mayerski) That is a  
21 pretty minor tributary -- inaudible --.

22 You just illicited a little interesting  
23 point. Every stream that crosses both the Navy  
24 and Colts Neck, in fact, the whole northern  
25 portion exits the depot, of this station, Navy

1 Station. No streams that we could find go into  
2 the Station except a little crook that comes  
3 under and then comes back out again.

4 PUBLIC: (Bob Marcolina) In that  
5 same area?

6 PUBLIC: (John Mayerski) The  
7 elevation being so high in there under plus  
8 -- inaudible -- persons are even more than that  
9 versus second round seventy, eighty. I think we  
10 had, a fire tower used to be there at one  
11 point. Because it's one of the highest  
12 elevations -- inaudible --. But at any rate the  
13 emission that goes out from the Station, no  
14 brooks come from or the strips come from  
15 the Station.

16 MR. BURG: If you wanted to review  
17 any of these data it's available at the Monmouth  
18 County Library in Shrewsbury. The real  
19 investigation and supplemental review  
20 investigations, that's all in there in the  
21 library.

22 We've come to what I believe is the last  
23 site that we have for discussion. This is part,  
24 this is a post plan for this site and this meeting  
25 is also doubling up, as I mentioned earlier, with

1 a recording. Part of the public comment period is  
2 in the post plan. Site 13 was again a landfill  
3 site. If you can read it up there. Scrap metal,  
4 for truck batteries and I think a couple of years  
5 ago they found some either cars or car parts and  
6 refrigerators also some mixed industrial  
7 residential waste stationed. They did a limited  
8 housekeeping out there a couple of years. In  
9 house we then did that with the Navy, Navy  
10 personnel. We're looking also to cap this site  
11 and now I'll turn it over to Russ and he can  
12 describe some of the work that we're doing.

13 MR. TURNER: Thanks. Okay, this is  
14 a little bit more in depth but it will be very  
15 similar to, again, we did a feasibility of the  
16 site study at this site. It's approximately,  
17 let's look at the slide, I'd like to show the  
18 location. Okay. I'll do the same as before, show  
19 location if you've seen that. Some of the past  
20 activities and toward the end we want to, since  
21 it is a public meeting, we want to talk about  
22 sequence of events and how you can get more  
23 information. Let's repeat that probably once.

24 This is an approximately two acre site.  
25 The media of concern is sediments and ground

1 water. The compounds in the sediments are PCPs  
2 and pesticides but they're very limited in all.  
3 We'll talk about those in a second. Let me point  
4 out some of the site features. There's a Defense  
5 property disposal office operates in this  
6 intensive area. As far as the remedial  
7 investigation, we're real curious. This is  
8 approximately the landfill boundary, the red. And  
9 we're real curious to find out how far the  
10 landfill intrudes into the Defense property office  
11 yard.

12 MR. BURG: When he says the Defense  
13 property, we have a tenant on station that's more  
14 for the seat of command. They have, it's a  
15 cleared area and the place -- inaudible -- down  
16 and they store, it's called the flatlands for  
17 transportation here. So it's just a storage yard  
18 for some of their tanks.

19 MR. TURNER: So that's their fence.  
20 I mentioned that sediments are our concern so  
21 there are two areas which I'll show later. These  
22 soils and the --inaudible -- sediments grounded  
23 from these areas will be consolidated under the  
24 proposed cap. But part of the reason we're at  
25 that station is to determine where the,

1 how much of the landfill where these test pits  
2 were installed. So we have a pretty good idea of  
3 where the limits of the landfill are. Besides by  
4 looking at it. A lot of the landfill has deep  
5 sides. It has deep sloped sides.

6 The kinds of materials found in test pits,  
7 they were of significant amounts, I think there  
8 were sixteen or so, metal crushed rods, used  
9 steel shell casings, used shell casings, metal  
10 cables, doors, an air compressor and a lot of  
11 rubber material. That's the kind of content that  
12 the landfill is. It's all very old and  
13 weathered.

14 Ground work club -- inaudible -- is north,  
15 a little northwest. This is another wetland area  
16 and to the north up here there's... First of all,  
17 this drainage ditch is not always flowing off the  
18 base and then it meets a perennial stream up  
19 there in the north. I don't know if I mentioned  
20 that all media were investigated at the site.

21 The remedial alternatives considered were  
22 no action. This no action alternative, it looked  
23 different in the last slide I showed. This one  
24 includes monitoring, long term monitoring only.  
25 The difference between alternative one and two

1 would be the, it's additional controls and  
2 essentially it would be the cost to initiate it,  
3 classification exception area. Alternative three  
4 which is the preferred alternative mode the Navy,  
5 and EPA and the State DEP, includes capping, the  
6 institutional controls and long term monitoring.  
7 That's the approximate cost there. Is everybody  
8 okay? The cap would look a little like this.  
9 You're looking at the side of the, you're looking  
10 at the cross section of the landfill cap. It  
11 would be composed of vegetative soil and one and a  
12 half foot narrow. The top half of it would be top  
13 soil. The typical drainage layer, a barrier layer  
14 which would be an impermeable membrane or  
15 something equivalent then subgrade there would be,  
16 there should be, a gas management layer as well.  
17 A typical sort of retro at the side of the cap,  
18 as people call it.

19           What we found when we actually looked, we  
20 did test pits, a number of test pits. And what  
21 was found were scrap metal basically and rubber,  
22 old rubber parts, as well as this compressor.

23           PUBLIC: It wasn't municipal waste.

24           MR. TURNER: It's burned up now.

25           PUBLIC: It was more equipment

1 waste. We've heard stories that there's a car  
2 buried in there and those kinds of things. It's  
3 probably true.

4 PUBLIC: (Sharon Brown) That was a  
5 pretty elaborate cap.

6 MR. TURNER: That was in the  
7 negotiations, that's what the State, that's what  
8 it...

9 PUBLIC: The feasibility has  
10 excluded this. No pesticides, PCPs in that  
11 neighborhood?

12 MR. TURNER: No, not really, no.  
13 Those places taken care of were in those two  
14 drainage areas and -- inaudible -- there's very  
15 little.

16 However, there are, the ground water is  
17 also of concern. I don't know if I mentioned it.  
18 There are BOC solvents in the ground water.  
19 And there's not a continuous plumb but there are  
20 hot spots of tetroethylene and there's also a  
21 -- inaudible -- but again also with fairly low  
22 concentrations.

23 PUBLIC: (Sharon Brown) Are you  
24 collecting any leeching and sending it off site  
25 or just doing the remedial on site?

1 MR. TURNER: Right now, the site is  
2 stable. It's not bothering anything including the  
3 watch -- inaudible -- The surface water sediments  
4 leaving the site will be studied carefully and  
5 there's nothing leaving the site. It's just that  
6 for the potential of future exposure, of people  
7 percent -- inaudible -- to the ground water is the  
8 main issue or persons to contact due to the  
9 contents of the landfill or an illegal exercise  
10 with same issues.

11 PUBLIC: (Lester Jargowsky) The  
12 Navy is agreeing to put a landfill cap on  
13 it. On the institutional controls, in the past  
14 RAB was talking about that and if you need to  
15 archive these controls and come back and visit  
16 them so that the money being invested in the  
17 improvement will sustain the activities  
18 protected. Could you give us some idea what the  
19 institutional controls might be put in place?

20 MR. TURNER: Yeah, I think so. Let  
21 me grab another slide here. This is actually a  
22 good one. Currently, if you remember the other  
23 slide, there is a fence for the property of the  
24 disposal office. There would be a different  
25 fence. That fence would be removed. The new

1 landfill cap would be placed over the entire  
2 landfill that we just described. The entire area  
3 would be surrounded by a fence with a gate  
4 including the access. So besides being within a  
5 secure Navy base, there would be a fence around  
6 the site as well with signs limiting access and  
7 saying exactly what kind of things would not  
8 permitted like excavation -- inaudible -- or cap.

9 MR. BURG: (Bob Marcolina) That's  
10 swell. With that in mind are you going to do one  
11 of your aggressive fence projects which would  
12 include posts that you did in the others to keep  
13 even the most aggressive sailor from taking a  
14 trip?

15 MR. TURNER: Same thing.

16 MR. BURG: I thought he had found  
17 that stuff somewhere else and just put it up  
18 there.

19 MR. TURNER: All right. Those are  
20 the features of the, and did I mention, all right  
21 I did already mention but I want to still  
22 repeat it, are the preferred alternatives is to  
23 remove the sediments in these two area and put  
24 them under an area that would be covered by the  
25 impenetrable cap. All right, then one more slide.

1 We're in a public meeting, we're in public  
2 comments period. It ends January 31st. The next  
3 step after that would be the Major will  
4 incorporate comments received by anyone including  
5 regulators, it could be, but generally it might be  
6 from public. Any comments made during this  
7 meeting will be incorporated into response --  
8 inaudible -- followed by the next step in the  
9 process.

10 All right, if it's processed its record  
11 of decision or a legal document will be signed  
12 prior to -- inaudible -- with the EPA and then the  
13 next steps would be remedial action, design, and  
14 fill the cap design, and the construction as in  
15 the past. The people have been around. This  
16 process has gone through a number of former  
17 landfills at Earle. This is a picture I took last  
18 Friday. There's one of the former landfill. This  
19 was constructed in 1998 at Site 5. That's where  
20 it is. So it gives you an idea what that cap  
21 might look like if you don't already have an idea.  
22 We'll have, you know, barriers and locked gate, a  
23 sign says this is a landfill cap. It describes  
24 the kind of activities that wouldn't be permitted.  
25 I mentioned that there would be a gas management

1 layer. They will have vents. And they have to be  
2 maintained. Capping the landfills, vegetation has  
3 to be maintained so that we can still get you to  
4 the point where that is the permanent layer.  
5 That's all I have unless there are questions.

6 PUBLIC: (Sharon Brown) Who  
7 maintains the cap?

8 MR. TURNER: The Navy.

9 MR. BURG: The Navy is on the hook  
10 to maintain the cap. We just said where the  
11 information is available. More information is  
12 available in the Monmouth County Library Eastern  
13 Branch in Shrewsbury. And if you have comments  
14 the people to contact would be Larry Burg or the  
15 DEO or EFANE person, Michele. And you can get  
16 those addresses or talk to them right here.

17 PUBLIC: (Michele DiGeambeardino)  
18 We will be formulating an operation maintenance  
19 plan and I believe we have the contractor maintain  
20 the landfill caps for the first year and then the  
21 Navy will proceed at some point.

22 MR. BURG: And every year a report  
23 gets generated regarding the analyticals for doing  
24 the ground work sampling and when it was mowed, if  
25 there were any problems out on the site, review

1 some little areas -- inaudible -- that type of  
2 thing and that's all described in the report.

3 We're just talking about the Navy security  
4 issues. There is a map and this is the proposed  
5 plan here. I'm pretty sure. We made twenty five  
6 copies so there's enough for everyone here at the  
7 moment. If you would like you can get a copy of  
8 it. Take a copy tonight. We had to remove one  
9 map in here.

10 PUBLIC: The map that's up here.

11 MR. BURG: Okay, we had to remove  
12 that with the line that refers to that as well  
13 where the subjects of the station alternate.  
14 Alternatively we can send this out with the  
15 minutes some time next week and that's this  
16 meeting. We're modifying the map -- inaudible --  
17 if you'd like to take it without the map you're  
18 welcome to it. Otherwise I'll plan to scrub the  
19 map a little bit and just send it down to the  
20 administrator. And is that in fact the schedule?

21 MR. TURNER: No. No, because the.  
22 As long as it's available in the public  
23 repository. If you want your own copy you can get  
24 one tonight without waiting.

25 PUBLIC: I'd like one.

1 MR. BURG: How about after the  
2 meeting, we'll give you one. But otherwise like I  
3 said we'll put that out at the next.

4 PUBLIC: (Michele DiGeambeardino) I  
5 don't know if everyone is aware of this but  
6 usually we call the public meetings half way in  
7 between the public comment period. Giving people  
8 the time to review it and have some questions of  
9 the meeting and then consider reviewing it.

10 MR. BURG: Are you all set, Russ?

11 MR. TURNER: Almost.

12 MR. BURG: Did you explain this  
13 picture?

14 MR. TURNER: I did. Yes. That's  
15 Site 5. That's the one that was  
16 made in 1998. The second. Four is the first.

17 MR. BURG: Up on top of Cranberry  
18 Hill there's water tanks, subsurface water tanks?

19 PUBLIC: Back there on D, if you  
20 remember, John.

21 PUBLIC: There's a ski range there.

22 PUBLIC: Yeah.

23 PUBLIC: It's actually quite  
24 beautiful. Believe it or not I've been there.

25 PUBLIC: The picture doesn't do it

1 justice.

2 MR. BURG: Do you have any other  
3 questions? Throw them out there. My number is up  
4 there. Feel free to call myself or Nancy in the  
5 Public Affairs Office and we'll try to answer  
6 questions and get back to you. We'd like to thank  
7 you all for coming.

8 PUBLIC: You have these booklets,  
9 there are reports, you say, here available?

10 MR. BURG: Yes, absolutely. Does  
11 anybody have anymore questions? As far as trying  
12 to get back on track with the last, again, I think  
13 Greg held them every three to four months so we're  
14 going to shoot for a first date in April. We'll  
15 try to coordinate ahead of time. Ostensibly ahead  
16 of time, Les isn't to be expendable. We're trying  
17 to set a first date for April and once we get that  
18 set we'll be able to include that in the minutes  
19 also and then get a location. Most likely we're  
20 not going to be on Station. Tourism, as I  
21 mention, are kind of off limits and we'll try to  
22 locate it again here or possibly down in Howell or  
23 maybe -- inaudible --. Expressing my thanks, I  
24 forgot to mention to all the contractors you have  
25 working for us, first Russ, from up and down, Bob,

1 well back and forth but we had them for an entire  
2 day. I always get a little bit disheveled --  
3 inaudible --.

4 MR. TURNER: Thank you, Larry.

5 PUBLIC: Thank you, Larry.

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CERTIFICATE

I, DOLORES ARMADA, Transcriber and  
Notary Public of the State of New Jersey, hereby  
certify the foregoing to be the truest and most  
closely verbatim record able to have been  
rendered by me, at a time subsequent to the  
original audio taping of same.

  
DOLORES ARMADA,  
Transcriber

My commission expires:  
April 25, 2006

RESTORATION ADVISORY BOARD  
NAVAL WEAPONS STATION EARLE  
MONMOUTH COUNTY

IN THE MATTER OF THE  
PROPOSED REMEDIATION PLAN  
FOR SITES 1, 10, 11, 13,  
26 & MINE BATTERY SITE

TRANSCRIPT OF  
PROCEEDINGS

January 15, 2003  
Colts Neck Township  
Library  
7:00 p.m.

RESTORATION ADVISORY BOARD

LAWRENCE BURG  
JOHN MAYERSKI  
GUS HERMANI  
NANCY ELDREDGE

APPEARANCES:

TETRA TECH NUS  
BROWN & ROOT ENVIRONMENTAL CORPORATION  
BY: RUSS TURNER  
King of Prussia, PA

WITNESS

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1 MR. BURG: Part of this evening's  
2 meeting is going to be a public review or a  
3 public comment period as a requirement for one of  
4 the sites which we're -- We have a reporter  
5 here and he' be recording what you have to say,  
6 and any questions that you might have regarding  
7 that site. Also, if there are any comments  
8 regarding the status of the site.  
9 If you have any concerns about being  
10 recorded or the questions and comments being  
11 recorded, please feel free to state so and we'll  
12 turn the machine off. Otherwise it become a  
13 written record that goes with the file for that  
14 particular site. So if you have any reservations  
15 about speaking on the record, just say and give  
16 the stop light.  
17 About a little over a year ago, a year and  
18 a half ago, Greg got offered a job with the Army  
19 Corps. A little over a year ago, he took that.  
20 He's working out of New York City. The Army Corp  
21 has a program of formerly used defense sites  
22 projects. He's working throughout the region  
23 New York, New Jersey, Pennsylvania I guess mostly  
24 remediation of cleaning up sites sites for the  
25 Federal government primarily, the DOD and for the

1 Army Corps. So the program is still in a bit of  
2 transition.  
3 I'd also like to point out a couple of the  
4 people that are here from Earle, which you  
5 may or may not know. Gus Hermani, he's the  
6 supervisor for the Department of Health program.  
7 Nancy Eldredge, who is the Public Affairs Officer.  
8 Lester Jargowsky, Monmouth County Health  
9 Department. He is the administration advisory  
10 board co-chair. And, of course, Greg Saranson  
11 who may decide the chairmanship. In the third row  
12 we have Rick Woodworth who works for Foster  
13 Wheeler, who's been doing part of the field  
14 projects for the Army Corps, construction of the  
15 Army Corps and perhaps overseeing part of the on  
16 site activities for them. Bob Marcolina who is  
17 here from the New Jersey Department of  
18 Environmental Protection and he is also  
19 representing BCM. To clarify that, not to  
20 downplay it. Because we have normally here,  
21 Jessica Mullin who's the Region Two Site  
22 Representative. We sat down, a bunch of us here,  
23 sat down this afternoon at a board meeting and  
24 Jessica was present at that. We did that to kind  
25 of make sure all of us are on the same page. As

1 far as what we present here and to kind of review  
2 the projects and keep one up on them. Jessica was  
3 present at the meeting. There were no hard  
4 feelings or anything between the two of us so...

5 Chris Kerlish is here. He and his  
6 associates are doing studies and still monitoring s  
7 the sites at Earle. Russ Turner is here from  
8 Tetra Tech. They do a lot of the up front  
9 studies, feasibility studies, proposed studies and  
10 things.

11 James Fisher is here to record our  
12 meeting. He's a subcontractor. Finally, we have  
13 Michele DeGeambeardino. She is our program  
14 manager. She works out of Lester, Pennsylvania  
15 just south Philly. And she handles the contracts  
16 both for Earle and on a wider scale up to Maine.  
17 I just met John Mayerski. I'm sure I'm familiar  
18 with the names. I haven't met a few of the  
19 ladies. But if you want to introduce yourself,  
20 that's fine.

21 MS. BROWN: I'm Sharon Brown. I'm here  
22 for two reasons. One, I was at the --inaudible  
23 -- the Restoration Advisory Board when it got  
24 approved. Several years ago I came to the  
25 meeting and I'm a Tinton Falls resident and I

1 materials at the meetings. Specifically maps and  
2 overhead photos. And it's also part of the  
3 reason we have not produced too much stationary  
4 work. For security matters we're not passing  
5 them out. We will be putting together minutes of  
6 the meeting. If you have any specific requests  
7 that you would like some information you can  
8 address it to myself or Nancy Eldredge, and we  
9 will try to accommodate that. We have been trying  
10 to keep much of the material go out by Haxton's.

11 The format we're going to do tonight, we  
12 did some slides. We're going to go through  
13 actually six sites this evening, five sites. I'm  
14 going to kind of introduce it. Very briefly go  
15 over the site history where it's located.  
16 Actually all the sites and where municipality lies  
17 and we'll located within Colts Neck. We'll kind  
18 of roughly go over where they are in station,  
19 geographically and see the history why there's a  
20 site.

21 For the most part we will dishing it off  
22 to the various contractors that we have that are  
23 working those sites at this time. And they'll be  
24 able to discuss in further detail what's  
25 happening and also answer some of the questions

1 also own a small environmental consulting firm out  
2 of Asbury Park. And I've been trying for the  
3 last eight years to get some work on site. I've  
4 met with Dave Rule at NAPBAK. I met with people  
5 at Foster Wheeler up in Langhorn, and I'm here  
6 again. I'm persistent and I'm hoping that I'm  
7 going to come up to speed and find out what's  
8 going on and try to provide some input.

9 MR. BURG: What's the name of your  
10 company?

11 MS. BROWN: Environmental and  
12 Occupational Safety Services. We're in Asbury  
13 Park. I'm trying to do some work with the NJDEP  
14 with which you may be familiar. Thank you.

15 MR. BURG: I should apologize to  
16 everyone. I do apologize for the way things have  
17 been turning out. I mentioned still being in  
18 transition and will probably still be. A very  
19 large breadth of things have gone into this  
20 program and it gave me a great deal of respect  
21 for what we've doing and what we've been asked.  
22 I'll do what I can and, again, hopefully improve  
23 things a little sooner.

24 One thing I wanted to mention as part of  
25 our Command's direction has been not to pass out

1 that you have.

2 That's just the agenda. The site we threw  
3 in was site 16, which is a forest looking stretch  
4 for the fire department. We'll get into that I'm  
5 sure. Thank you.

6 MR. TURNER: Site 1, it kind of  
7 runs hand in hand with Site 11 which is -- it's a  
8 couple down. This was an old range. They did  
9 some burning here, if you can read some of this,  
10 from about 1943 to 1974. The site's been  
11 investigated. We have some data developed  
12 through our site investigations that indicate a  
13 lesser mediation approach than it may have had a  
14 few years ago. We were looking at scraping some  
15 of the soils off.

16 I'll just pass it over to Russ. He's got  
17 some additional slides.

18 MR. BURG: Another good thing Greg  
19 did, he developed a community relations plan, kind  
20 of an annual report, which lists all the sites.  
21 This is the format we have in it. You can see a  
22 brief history of the site, description of what's  
23 happening as far as status. What we have here is  
24 an ortographic photo of a fly over Monmouth  
25 County in '94 or '95. I'm going to blow it up,

1 it's kind of hard to see. It's kind of a  
2 panoramic view of the site. And if you can make  
3 this out, roughly where the site is located.  
4 Route 34 bisecting the base here. This is the  
5 northern border of the base. Normandy Road sticks  
6 out at the top and Route 18 would be roughly in  
7 here. The Colts Neck Township border is this  
8 line here. So as to kind of give you the feel  
9 of where the sites are located geographically in  
10 reference to Colts Neck.

11 MR. TURNER: Okay. We're going  
12 to reiterate the movement of that from the slides  
13 I have. But what is shown would be the location  
14 and site description, summary of activities. And  
15 the history a little bit here. What kinds of  
16 things have been done there.

17 In the process of the RIFS here is the real  
18 investigation, the feasibility study. In other  
19 words the FS stage, a feasibility stage, which  
20 is, quote, "What are the alternatives for putting  
21 at the site?" So I'll be showing those and also  
22 cost estimates. I'll show you these, the sequence  
23 following the work at that site would be. Now  
24 the location I've covered pretty well already.  
25 Site 1 is in the north central area of the

1 winter time.

2 The site is about six acres and the Navy  
3 investigated all media at the site. Can everyone  
4 hear me okay? Any questions, just shout them  
5 out.

6 This is a photograph of the site features.  
7 The media of concern at the site is brown water  
8 only. The compounds of concern are metals,  
9 arsenic, chromium and iron. There's a high level  
10 of iron there. Ground water flow at this site is  
11 to the north northeast.

12 What the Navy has been doing here for a  
13 number of years, not very many actually, a number  
14 of years anyway, burning of explosive mortars.  
15 Okay, some small arms were disposed of.

16 Okay, in the FS process as everyone's aware  
17 of, the federal guideline calls for the engineers  
18 to look at what the reasonable alternatives are  
19 and prepare a range of alternatives.

20 In this case, the alternatives that we  
21 came up with are no action required by the  
22 guidance. And the second alternative is long  
23 term monitoring and with limited action. And  
24 third is limited action, institutional controls  
25 due to long term monitoring.

1 facility. We'll kind of give a second to look at  
2 that to see where your points are. Can everyone  
3 see where that site is oriented?

4 MR. TURNER: Can everybody see  
5 that okay?

6 Can I try to get it a little bit larger  
7 back at the table or something?

8 MR. BURG: Is everything okay so  
9 far? Okay. All right.

10 That, by the way, is near the  
11 Administration Center where the Navy has its  
12 administration offices.

13 Next slide we show, it talks about the  
14 history of the use. This is an aerial photograph  
15 of the site which is really in the center of that  
16 photograph there. You can see the roadway on the  
17 right. It's an active roadway. You can even  
18 see there's a little walkway on the right-hand  
19 side. That's the site, right there to the left  
20 of that walkway there. It's bordered on the  
21 north by that railroad track that runs from left  
22 to right across the photograph and bordered all  
23 around by an earthen berth. So you can see to  
24 the lower left there are trees and the site is  
25 sort of brownish in this photograph. It's in the

1 Now the difference between number two and  
2 three is essentially going through a process of  
3 classification exception area that would insure  
4 through land use controls and implementation of a  
5 process which we think, that NJDEP that remarked  
6 that ground water beneath the site would not be  
7 used for the duration of the classification  
8 exception area. And that requires five year  
9 reviews and a review by the State NJDEP. So you  
10 see there are cost estimates as well.

11 MR. TURNER: No.

12 MR. BURG: We'll get more to my  
13 slides and we'll follow with the process. The  
14 rebuttal together is a single operating unit we  
15 expect. And also within the same area a little  
16 east of the admin area. This is the location to  
17 the...

18 PUBLIC: (Lester Jargowsky) Excuse  
19 me, can we have questions as we go by tonight?

20 MR. BURG: Yes, absolutely.

21 PUBLIC: (Lester Jargowsky) On  
22 that first site, did any of the markering loss, --  
23 inaudible -- have any type of explosive residue  
24 work. Any type of...

25 MR. TURNER: No, not now. There

1 were a series of investigations. And in an  
2 earlier investigation probably the year would be  
3 late eighties. At some investigation so more than  
4 ten or fifteen years ago, an explosive top  
5 -- inaudible -- however wasn't duplicated in any  
6 investigations.

7 PUBLIC: (Lester Jargowsky)  
8 Now the burning that you talked about there, was  
9 that the cranker -- inaudible -- where they have  
10 small arms and where they have -- inaudible -- or  
11 was that aside from this? -- inaudible --.

12 MR. TURNER: This would have been  
13 open burning on the ground.

14 PUBLIC: (Lester Jargowsky)  
15 An open burn?

16 MR. TURNER: Yeah. It will be under  
17 details.

18 MR. BURG: I think I remember  
19 reading, I don't know if it was within your  
20 report, from all the history where when they  
21 decommissioned or stop using a site I believe they  
22 tilled the soils and they also took sautee or  
23 gasoline sautee and we'd burn the site a  
24 couple of times to try and liberate any of the  
25 fugitive explosives, explosive components,

1 whatever would have been on the site. So they  
2 took some crude in efforts to try and eliminate  
3 that developing on the site.

4 MR. TURNER: You need to know that  
5 was the typical method using fuel oils sautee or  
6 something like that.

7 MR. BURG: Just trying to burn off  
8 the rest of it.

9 PUBLIC: (Lester Jargowsky) In  
10 terms of the heavy metals that were in ground  
11 mortar, I mean, the metals. Are we talking just  
12 above standards, or very high above standards,  
13 would you clarify that?

14 MR. TURNER: Yeah, they're just  
15 barely above the engine, the ground mortar  
16 standards DWQS, Army standards. I would guess  
17 that in a few years that they would naturally  
18 become lower in standards.

19 PUBLIC: (Lester Jargowsky) That's  
20 why I was asking the question.

21 MR. TURNER: It's so close. They're  
22 just about there. You know the standards --  
23 inaudible --. But not everyone knows it as well  
24 as you do. So thanks for the question.

25 MR. BURG: John?

1 PUBLIC: (John Mayerski) Yeah. A  
2 little background since I worked there all during  
3 the time period that we're using that site. They  
4 did have a structure above grade, reenforced  
5 concrete and very thick steel. And what happened  
6 what cost the unit in the nature of that work  
7 there is that totalin -- inaudible -- took  
8 place. One of the Navy fellows went a little too  
9 soon after the detonation and yet one was just  
10 laying there waiting for him fortunately. I think  
11 he was 21 maybe with his girlfriend. --  
12 inaudible -- that's a safety device do away by  
13 this -- inaudible --. They didn't do any,  
14 obviously we caught them. It's their stuff that  
15 had flown away.

16 MR. TURNER: One more. Yes,  
17 basically, if anybody is interested, these are the  
18 former burn trenches. Probably it came from the  
19 aerial photographs and studies. The open burning  
20 of open detonations typically if they do it, it  
21 will be all grade, you know. And these were the  
22 trenches, these two trenches. They may have  
23 changed them. It's hard to...

24 MR. BURG: Do you have any other  
25 questions or comments?

1 Move on to Site 11. Site 11 also is even  
2 a lower profile as far as the contaminants that  
3 are present and the course of action we are  
4 seeking to take. It was an area, again, just east  
5 of where we were previously so look in the same  
6 general vicinity. Area used by the fire  
7 department for different drills, lighting cars on  
8 fire, extinguishing them. This is an area also  
9 where we're limited in what we can do. We have  
10 evidence of neiscon beak, well actually beaked  
11 rush which is a type of grass that's present on  
12 site. It is listed as an endangered species so we  
13 are very limited as far as moving around out  
14 there.

15 MR. TURNER: Okay, in this case, I  
16 would... Yeah. This case is the same. It's a  
17 box area of about two acres. It's about a two  
18 acre site. People say it's a fan shape surrounded  
19 by wetlands, a real wetlands area pretty much  
20 levels there. Nothing occurs here at the site  
21 now. It occurs as a degree of reference here as  
22 it appears.

23 MR. BURG: Yeah. It's locked up  
24 with restricted access to the site.

25 MR. TURNER: It turns out the media

1 concern here is none. After the, it was  
 2 occasionally used for fire training. Really just  
 3 for three years, 1974 to 1977. Like Larry  
 4 mentioned small volumes of fuel were used to set  
 5 vehicles on fire for fire training. That water  
 6 flow, once again, is to north northeast, turns  
 7 then south. After review of the site conditions  
 8 we really need recommend, after speaking to DEP  
 9 and EPA, no further action is proposed here. The  
 10 only issue is that there is this neison beaked  
 11 rush, endangered species grass. And the site, we  
 12 believe that the -- inaudible -- is facing the  
 13 Toms Utility. Toms Utility already has a project  
 14 to promote the propagation of the grass.

15 PUBLIC: (Lester Jargowsky) Is he  
 16 going to do that? I've been there.

17 MR. TURNER: Excuse me, on this  
 18 topic he does cut the grass.

19 MR. BURG: Believe it or not they  
 20 mow it.

21 MR. TURNER: They do mow it. Right,  
 22 yeah, I think it is.

23 PUBLIC: (Lester Jargowsky) It  
 24 seemed to me like the deer were winning.

25 MR. BURG: There's a lot of

1 speculation that we wonder if the beaked rush  
 2 exists now. We don't really know. But I don't  
 3 know that we can control it.

4 MR. TURNER: I'm trying to find out,  
 5 Les, whether or not I can actually take some of it  
 6 and plant it and keep a bowl I guess and tell  
 7 people don't step on it. I'm not sure if I'm  
 8 allowed to.

9 Okay, we're coming up to the two sites,  
 10 landfill caps are to be placed on these sites  
 11 currently by Foster Wheeler until about Friday.  
 12 But this was a decision on these landfill caps  
 13 when that passed a couple of years. We actually  
 14 just mobilized when we saw approximately smoke  
 15 -- inaudible -- out at the site this past fall. It  
 16 was...

17 MR. BURG: October.

18 MR. TURNER: Late October.  
 19 Everything pretty much is tracking normally. This  
 20 was a site just domestic industrial wastes on the  
 21 southern portion of the base. This turns out to  
 22 be out of Homestead township. There's a  
 23 cisco map of the site which relates to Homestead.  
 24 We'll get to that next. And we've been working  
 25 very diligently.

1 Unfortunately the last couple of weeks  
 2 we've had a lot of rains which has compromised  
 3 the ability to work out there. I believe as far  
 4 as moving trucks back and forth across through  
 5 the routes and to an off base and also  
 6 construction of -- inaudible --. So what they're  
 7 doing, Foster Wheeler has completed team  
 8 mobilizations which was not planned. And  
 9 remobilized to the sites for the April, before the  
 10 April time frame that applies out a little bit to  
 11 complete construction. But we've, I mean it's run  
 12 fairly smoothly. That's before a contracting  
 13 officer. I'd just like to say I have a few, a few  
 14 comments -- inaudible -- to add as far as these  
 15 two landfill caps.

16 PUBLIC: (Rick Woodworth) I'm  
 17 really not interested. They'll be mobilizing in  
 18 late April and I think our remaining scope is six  
 19 weeks. So when we begin we'll try to complete by  
 20 the end of May.

21 MR. BURG: All right. We've  
 22 discussed it in your absence so we put them about  
 23 the end of June. As far as having all the various  
 24 expense of securing the site. The other landfill  
 25 cap which is being done at the same time and the

1 same contract is Site 10. This was a little  
 2 closer to the main site in this gray area. And if  
 3 you come on the base you could see these trees.  
 4 These are pretty much all cleared out now. The  
 5 caps for the most part have been put in place.  
 6 The same thing. This is in proximity to  
 7 another ordinance disposal site and John, feel  
 8 free to jump in.

9 PUBLIC: (John Mayerski) It was  
 10 unusually wet years ago. Outside rain fill?  
 11 --inaudible --.

12 MR. BURG: This is actually up a  
 13 little bit higher than the rest of the site.  
 14 It's up on a little ridge.

15 PUBLIC: (John Mayerski) Does the  
 16 movement of road go straight up?

17 MR. BURG: If you remember, FA2 I'm  
 18 sure that was the case. FA2 is right down the  
 19 street. Right over here. Up until about two  
 20 years ago it was a stock metal holding yard. All  
 21 kinds of scrap metal would come in there. And  
 22 basically old casings and things. But again  
 23 that's tracking very nicely and expected  
 24 completion this June. Which is still a long term  
 25 on that.

1 Oh well, the bio surper unit. This was  
2 a case where again the administrative areas. This  
3 was a locomotive repair facility way back when. I  
4 don't know when the gas station got shut down but  
5 the facility, well, maintained a gas station in  
6 this area. There was also a pipe leading over to  
7 the locomotive repair facility. And over a number  
8 of years after I guess after testing that system  
9 it was determined that for a number of years the  
10 pipeline had leaked.

11 So Foster Wheeler has installed two bio  
12 surping units. Basically drawing ground water  
13 out of the water table scrubbing it through clay  
14 and hardened filtration units and returning the  
15 water to the ground and treating the oils. To  
16 date, it's been working since ninety seven,  
17 ninety six.

18 PUBLIC: (Rick Woodworth) It has  
19 two more years of monitoring.

20 MR. BURG: There's been a number  
21 of years of monitoring. Over the course of the  
22 last five or six years they've reformed five  
23 thousand gallons of fuels. But we continue in  
24 addition to what Foster Wheeler is doing as far as  
25 actively trying to draw up and filter the ground

1 the ground. We have to work twice as much to  
2 scrub it out. -- inaudible --

3 PUBLIC: I guess what I'm asking is  
4 Tetra Tech over there grabbing their samples from  
5 the wells and seeing precipitous drop in the  
6 levels?

7 MR. TURNER: I would say it's a slow  
8 drop. We're seeing decreased levels but nothing  
9 momentous.

10 MR. BURG: If the bio surping is  
11 continuing still seriously so we haven't seen any  
12 progress towards the clean up kind of a thing?

13 MR. TURNER: We did, I think as  
14 far as the antar mark we're seeing decreasing  
15 levels of contaminants.

16 MR. BURG: Some wells we do. Yes,  
17 yes, absolutely. Yeah.

18 PUBLIC: We're seeing definitely the  
19 decreased levels of product. There's no question  
20 about that. I mean, we started out, we had almost  
21 like a foot in product in one of the wells by  
22 building 16 and that's come down significantly.

23 PUBLIC: And I think what you might  
24 be asking is we're still seeing increases to a  
25 level that we're not revisiting whether the bio

1 water and to clean that up. Tetra Tech is still  
2 working for us also on a broader scale with sentry  
3 wells and monitoring wells throughout this area.

4 If you can see it here, this is the GPU  
5 power line right of way. We have monitoring wells  
6 throughout this area which bound a plumb from  
7 that leak. Which is fairly expensive and just  
8 recently within the last few months we find we  
9 hit upon areas where we have non detects. In  
10 other words, we have no evidence of any further  
11 contaminants. So after two years of poking  
12 around a little bit, trying to find the balances  
13 on the north boundary. Again, we keep DEP  
14 informed and file the reports as far as what we  
15 know in expanding the area of the investigation.

16 PUBLIC: (Sharon Brown) When do  
17 you anticipate that your process will be  
18 completed by the bio surpers?

19 MR. BURG: Is that true that bio  
20 surpers kind of run into their plane? If you  
21 care to jump in, you're more familiar with it.

22 MR. TURNER: Depending on the ground  
23 water levels, and of course in the summer we have  
24 depressed ground water levels so we don't get the  
25 kind of recharge. There will be less water in

1 surpers run material. But continuing this,  
2 don't progress.

3 MR. BURG: I believe we have some  
4 leeway too with the operation that we convert.  
5 We're not seeing heavily covered rains. They are  
6 seasonal. Over a period of time if it shut down  
7 it's turned up. They're both... The amount of  
8 material we have recovered and the contaminant  
9 levels on a quarterly monitor are slowly coming  
10 down.

11 PUBLIC: If you follow that trail  
12 when you get to the end. I'm not really sure we  
13 that we're at the end of that but does the plumb  
14 follow the tracks or do the tracks go into another  
15 direction?

16 MR. BURG: It actually does.

17 PUBLIC: Is it like following the  
18 conduit of the new tracks?

19 MR. TURNER: No, it's heading north  
20 in the same direction parallel to the tracks.

21 MR. BURG: It does kind of, what  
22 you're hinting at, it does kind of run along the  
23 tracks. Where it's dead ended at this point is  
24 where the tracks meet the GPU right of way. Where  
25 you have where we did some filling when the green

1 tower was there. Which is in an area of compacted  
2 soils with a rail bed -- inaudible --. I don't  
3 know if you got some surface results too --  
4 inaudible --. That's pretty much where it is.

5 Going back to your question, first part of  
6 your question, I think you were getting at how  
7 long we anticipate really operating, I can't say  
8 right now because we are still recovering product.

9 PUBLIC: And every time we hear the  
10 submission that's obviously something that we  
11 revisit. We saw drastic changes than we would and  
12 argue from that respect.

13 MR. BURG: I think the most recent  
14 annual numbers might come from the sentence in  
15 this, approximately like five or six hundred  
16 gallons a year which is a significant amount. I  
17 think you can draw that.

18 MR. TURNER: I don't know what the  
19 threshold would be when we stop and say okay,  
20 that's enough, we're just going to monitor.  
21 That's not doing it any good -- inaudible --. We  
22 can balance out that's all. As far as cost is,  
23 it's part of recovery.

24 But again, we review this about quarterly.

25 MR. BURG: Site 26. This is just

1 on the border of Colts Neck on the southern side.  
2 Again a shop where the various conditions are  
3 maintenance. We have trichlorethylene plumb which  
4 was discovered here and Foster Wheeler has an air  
5 sparging system which is similar to the bio  
6 surper. It's forcing air into the ground and  
7 extracting that air and scrubbing that until it  
8 becomes carbonated. This unit started operation  
9 about a year and a half ago, summer of 2001. And  
10 we've seen some really excellent recovery rates in  
11 excess of 75% of wood was estimated to be  
12 contained in the sub surface and also the ground  
13 wells.

14 MR. TURNER: The next report is to  
15 be approximately in June and at that time we'll  
16 revisit the levels that were receding. If it's  
17 working to continue with this system or possibly  
18 try an approach of shutting down the system and  
19 then monitoring from that. We discussed that with  
20 NJDEP and EPA today but we won't know until the  
21 next report comes in and we are clarified that  
22 we proceed. So basically that's how we'll be  
23 reviewing it.

24 MR. BURG: Again, some of the bio  
25 surping ordered based on the cost it takes to

1 operate the system. Is it worth it basically,  
2 is it worth recovering the amounts of material  
3 that were recovered. So if we can we'll be say  
4 to the EPA and operate that intermittent to next  
5 month.

6 PUBLIC: What rate of return do you  
7 have thus far? I mean, can you give us that on a  
8 slide? Can you give us an idea, you know, how  
9 successful you've been?

10 MR. BURG: It sounds really  
11 ridiculous but.

12 MR. TURNER: Actually, we did take  
13 it out of the slide because it said a gallon. A  
14 gallon and to you a gallon seems like I guess.

15 MR. BURG: Well, if you told Lester  
16 a gallon of serance you never -- inaudible --. If  
17 it sounds like a very little amount but based on  
18 toxicity perhaps help the environment. Again, if  
19 it's that much. It's not a whole lot. It doesn't  
20 sound like a whole lot. A hell of a lot of money  
21 has been put into getting that much.

22 PUBLIC: But have you captured it or  
23 did a whole lot more get away from it?

24 MR. BURG: Well, the material is  
25 absorbed by the carbon. And the carbon, I guess,

1 is sent out through these holes of water to get  
2 that recharged. So it's not captured per se. I  
3 don't know you go about measuring. There's a  
4 measuring mark. Second, because you measure the  
5 carbon weight and after.

6 PUBLIC: No, no. The air stream,  
7 the insulin going into carbon in the unit that  
8 keeps from what you're, counts the vapor. It will  
9 count the PE in the vapor that you're removing and  
10 also as far as the plumb goes, we have --

11 inaudible -- grading. There was no indication  
12 that TZ has reached that so it could be that the  
13 system is at least, or it's indicating that the  
14 system may include in check at this time.

15 PUBLIC: What about the soil?

16 PUBLIC: There's water in the  
17 aluminum that's been affected by.

18 MR. BURG: Water is a media that's  
19 being checked to gauge the contaminant water  
20 -- inaudible --

21 PUBLIC: Have you had any soil  
22 removal at Site 26?

23 MR. BURG: Well, on site.

24 MR. TURNER: Because of it, you  
25 remember?

1 MR. BURG: We took out, there was a  
2 settlement basin.

3 PUBLIC: A seepage tank?

4 MR. BURG: A seepage tank. That was  
5 removed along with some hot spot soils, I think.

6 MR. TURNER: Especially if there's  
7 one source. There's a well identified source  
8 behind the building and spills occurred there so  
9 the source was removed in 1998 around there. And  
10 so there was also clay later -- inaudible -- so  
11 it's a compliant surface not to a widening extent.  
12 It's a well compliant plumb -- inaudible --.  
13 These were the clay area.

14 MR. BURG: Mine battery site. On  
15 the overhead picture, that's Route 18. So just  
16 inside of the fence line with Route 18 here, this  
17 is a perimeter road along the fence lines.  
18 There's a pond which, you should have clarified  
19 this for me earlier, Chris but.

20 PUBLIC: (Chris Kerlish) Mine  
21 battery.

22 MR. BURG: This perimeter here  
23 towards to Mine Brook which feeds directly into  
24 the Swim River Reservoir. This was a disposal  
25 site for actuators which we used in refurbishing,

1 on the station background concentrations of the  
2 soil compare them to our results and see how they  
3 match up. We're going to do a little bit more  
4 sampling of the ground water and try to do some  
5 sampling in the tributary before the Mine Brook  
6 -- inaudible -- again. The west pond flows into  
7 it.

8 We'll see what's going on in the ground  
9 surface water there and if as we're expecting it  
10 all turns out to be reasonably naturally kind of  
11 stuff, it's probably going to result in a  
12 housekeeping of the actuators looking into the  
13 pond and whatever is left from -- inaudible -- on  
14 the shore area. And that's really about it.

15 PUBLIC: Can you explain what an  
16 actuator is. Does it have killable components or  
17 it's just electronics, or? What is it actually?

18 PUBLIC: I'm not sure exactly what  
19 an actuator is. But this particular component  
20 would be dry plate because it's all rusted out  
21 now.

22 PUBLIC: No, it's mostly. Most of  
23 it isn't known. It's actually a plastic housing.  
24 It has full battery chips in it. Dry cell cavity  
25 chips with a battery and a core which was

1 actually it was used in mines. And what they have  
2 done with it just goes in the pond for whatever  
3 reason.

4 PUBLIC: Do you remember, Chris,  
5 the history of what's going on here?

6 PUBLIC: (Chris Kerlish) Basically  
7 what we, we're not expecting it to be the ones to  
8 be buried along the side of the pond. It turned  
9 out that most of them were put into the pond.  
10 Some time after 1980 part of the pond was dredged  
11 to get them out. And they were picked up for the  
12 most part but some did remain.

13 When we went out we did some tests  
14 basically to see if anything was buried there. We  
15 did some soil sampling, sampled ground water,  
16 sampled the surface water in the pond and in the  
17 actuator and basically what we found was that  
18 there are some levels of arsenic. Arsenic it  
19 turns out was not used in the actuators  
20 themselves. So it is not showing a pattern.  
21 There's a couple of other related metals but for  
22 now they all appear to be a result of background  
23 concentrations within the soil.

24 What we're doing is we're going to be  
25 taking another look at some stabilizing and some

1 electronics. And the nearest I can figure was  
2 this was part of a timing mechanism on marks. Why  
3 these particular components were taken off and  
4 dropped by the pond I don't know.

5 MR. BURG: John, would you.

6 PUBLIC: (John Mayerski) The acid  
7 you found, is that related to the batteries  
8 themselves or is it from an unknown source? You  
9 said you found arsenic.

10 PUBLIC: (Lester Jargowsky) No.  
11 No, it doesn't carry this. Arsenic has been found  
12 naturally occurring all over Monmouth County.

13 PUBLIC: (Sharon Brown) Right.

14 PUBLIC: Especially in orchards.

15 MR. BURG: And there is no arsenic  
16 in the actuators themselves.

17 MR. BURG: Not that I know.  
18 What we had -- inaudible -- force, we actually,  
19 the cannon weapon provided. They took one of the  
20 actuators off site burned it up and did a few  
21 field tests where you take a component and swirl  
22 it around in slightly slick water to make it  
23 simple to see what would typically recharge that  
24 component were it to remain in the soils around  
25 -- audible -- and see what would recharge. And it

1 at had fairly low levels on it.

2 Again, the arsenic came off but as Les  
3 mentioned there's a number of studies which we're  
4 trying to compile and used to back up our opinion  
5 that the arsenic that we're finding on the site  
6 was pretty much from underground wells in the  
7 orchards and farms that were out here. That was  
8 the reason for the pesticides.

9 And one of the things we're kind of  
10 balancing with the site, just sticking with this  
11 pond, is it's obviously a weapons area. It's  
12 fairly sensitive. Based on a threat posed by the  
13 actuators there's not really too many hazardous  
14 constituents in and out. It's more of a solid  
15 waste if you will.

16 PUBLIC: It wasn't there to begin  
17 with.

18 MR. BURG: Which is a downside. But  
19 we also don't want to go in and tear up the  
20 entire site to do a hundred percent cleanup and in  
21 effect stir or destroy the weapons in that area.  
22 So, again, looking at the background levels, we do  
23 plan to go in and, as Chris mentioned, do some  
24 additional housekeeping.

25 If you heard, there's a section of the

1 pond that once was a -- inaudible --. It's now  
2 about ten feet deep. We're going to dredge these  
3 actuators and just kind of drop them on the banks  
4 in the area surrounding. There is still an area  
5 that's about four feet deep or so and that we  
6 feel we can reach with clam rakes if you will.  
7 Just kind of scrape out the remainder of what we  
8 can see and what we find with a minimal  
9 disturbance to the site and clean up the majority  
10 and whatever else we can find.

11 PUBLIC: (Sharon Brown) I think I'm  
12 the only Tinton Falls person here. I'm curious  
13 about how any of the contamination on the site or  
14 post has effected swimming -- inaudible -- the  
15 Swim River reservoir. Because that's where, you  
16 know, the vast majority empties. Maybe you can  
17 correct me on this so I'm accurate about this but  
18 isn't that where New Jersey American Water routes  
19 our water drinking?

20 MR. BURG: A portion of it. I'm  
21 sure they have other -- inaudible --.

22 PUBLIC: (Sharon Brown) Have there  
23 been any thing?

24 MR. BURG: No, we have no indication  
25 that -- inaudible -- come through to our station

1 through the tributaries to the different  
2 reservoirs present concern.

3 PUBLIC: (Bob Marcolina) Larry,  
4 during the remedial investigations a study was  
5 done. We sampled all the surface water and the  
6 sediments coming off...

7 PUBLIC: (Lester Jargowsky) That  
8 was actually a demand by the RAB, the citizen  
9 group, going way back a couple of years. Before  
10 we even wanted to hear about investigations going  
11 on the site, we want to set the stage to know  
12 what's coming off the base. And RAB asked the  
13 Navy to sample every single stream coming off the  
14 base for any water problems and sediment and  
15 give us data back so we know right away up front  
16 and not to wait for years and years of study of  
17 that site and then find out later there's  
18 something wrong. We wanted to know up front, was  
19 there an immediate threat and they did it right  
20 away to our amazement. Okay, and it was great  
21 data. We started off at least on a positive  
22 foot.

23 PUBLIC: (Bob Marcolina) And also I  
24 think to back that up, I remember you did that  
25 project with the kids from Brookdale or something,

1 a bio assessment. That went pretty well too.

2 PUBLIC: (Lester Jargowsky) That  
3 corroborated the findings from the RAB.

4 PUBLIC: (Bob Marcolina) When it  
5 came to sample the -- inaudible -- bendrick macral  
6 vertebrates in several of the streams, they had  
7 the school kids come in and we had our trained  
8 people with them. We had a DEP teacher from the  
9 project there as well with us. And we were  
10 actually amazed. The kids were amazed too from  
11 the amount of life that's in their streams, high  
12 quality life. That's why stream wise there was a  
13 lot of high quality life. The Base Commander had  
14 got involved back in that time frame and he took  
15 great pride in those little critters coming out of  
16 these streams.

17 PUBLIC: (Chris Kerlish) We're also  
18 taking notice that this is really pretty far  
19 up stream from the reservoir?

20 PUBLIC: (John Mayerski) That is a  
21 pretty minor tributary -- inaudible --.

22 You just illicited a little interesting  
23 point. Every stream that crosses both the Navy  
24 and Colts Neck, in fact, the whole northern  
25 portion exits the depot, of this station, Navy

1 Station. No streams that we could find go into  
2 the Station except a little creek that comes  
3 under and then comes back out again.

4 PUBLIC: (Bob Marcolina) In that  
5 same area?

6 PUBLIC: (John Mayerski) The  
7 elevation being so high in there under plus  
8 -- inaudible -- persons are even more than that  
9 versus second round seventy, eighty. I think we  
10 had, a fire tower used to be there at one  
11 point. Because it's one of the highest  
12 elevations -- inaudible --. But at any rate the  
13 emission that goes out from the Station, no  
14 brooks come from or the strips come from  
15 the Station.

16 MR. BURG: If you wanted to review  
17 any of these data it's available at the Monmouth  
18 County Library in Shrewsbury. The real  
19 investigation and supplemental review  
20 investigations, that's all in there in the  
21 library.

22 We've come to what I believe is the last  
23 site that we have for discussion. This is part,  
24 this is a post plan for this site and this meeting  
25 is also doubling up, as I mentioned earlier, with

1 water. The compounds in the sediments are PCPs  
2 and pesticides but they're very limited in all.  
3 We'll talk about those in a second. Let me point  
4 out some of the site features. There's a Defense  
5 property disposal office operates in this  
6 intensive area. As far as the remedial  
7 investigation, we're real curious. This is  
8 approximately the landfill boundary, the red. And  
9 we're real curious to find out how far the  
10 landfill intrudes into the Defense property office  
11 yard.

12 MR. BURG: When he says the Defense  
13 property, we have a tenant on station that's more  
14 for the seat of command. They have, it's a  
15 cleared area and the place -- inaudible -- down  
16 and they store, it's called the flatlands for  
17 transportation here. So it's just a storage yard  
18 for some of their tanks.

19 MR. TURNER: So that's their fence.  
20 I mentioned that sediments are our concern so  
21 there are two areas which I'll show later. These  
22 soils and the -- inaudible -- sediments grounded  
23 from these areas will be consolidated under the  
24 proposed cap. But part of the reason we're at  
25 that station is to determine where the,

1 a recording. Part of the public comment period is  
2 in the post plan. Site 13 was again a landfill  
3 site. If you can read it up there. Scrap metal,  
4 for truck batteries and I think a couple of years  
5 ago they found some either cars or car parts and  
6 refrigerators also some mixed industrial  
7 residential waste stationed. They did a limited  
8 housekeeping out there a couple of years. In  
9 house we then did that with the Navy, Navy  
10 personnel. We're looking also to cap this site  
11 and now I'll turn it over to Russ and he can  
12 describe some of the work that we're doing.

13 MR. TURNER: Thanks. Okay, this is  
14 a little bit more in depth but it will be very  
15 similar to, again, we did a feasibility of the  
16 site study at this site. It's approximately,  
17 let's look at the slide, I'd like to show the  
18 location. Okay. I'll do the same as before, show  
19 location if you've seen that. Some of the past  
20 activities and toward the end we want to, since  
21 it is a public meeting, we want to talk about  
22 sequence of events and how you can get more  
23 information. Let's repeat that probably once.  
24 This is an approximately two acre site.  
25 The media of concern is sediments and ground

1 how much of the landfill where these test pits  
2 were installed. So we have a pretty good idea of  
3 where the limits of the landfill are. Besides by  
4 looking at it. A lot of the landfill has deep  
5 sides. It has deep sloped sides.

6 The kinds of materials found in test pits,  
7 they were of significant amounts, I think there  
8 were sixteen or so, metal crushed rods, used  
9 steel shell casings, used shell casings, metal  
10 cables, doors, an air compressor and a lot of  
11 rubber material. That's the kind of content that  
12 the landfill is. It's all very old and  
13 weathered.

14 Ground work club -- inaudible -- is north,  
15 a little northwest. This is another wetland area  
16 and to the north up here there's... First of all,  
17 this drainage ditch is not always flowing off the  
18 base and then it meets a perennial stream up  
19 there in the north. I don't know if I mentioned  
20 that all media were investigated at the site.

21 The remedial alternatives considered were  
22 no action. This no action alternative, it looked  
23 different in the last slide I showed. This one  
24 includes monitoring, long term monitoring only.  
25 The difference between alternative one and two

1 would be the, it's additional controls and  
 2 essentially it would be the cost to initiate it, :  
 3 classification exception area. Alternative three  
 4 which is the preferred alternative mode the Navy,  
 5 and EPA and the State DEP, includes capping, the  
 6 institutional controls and long term monitoring.  
 7 That's the approximate cost there. Is everybody  
 8 okay? The cap would look a little like this.  
 9 You're looking at the side of the, you're looking  
 10 at the cross section of the landfill cap. It  
 11 would be composed of vegetative soil and one and a  
 12 half foot narrow. The top half of it would be top  
 13 soil. The typical drainage layer, a barrier layer  
 14 which would be an impermeable membrane or  
 15 something equivalent then subgrade there would be,  
 16 there should be, a gas management layer as well.  
 17 A typical sort of retro at the side of the cap,  
 18 as people call it.

19 What we found when we actually looked, we  
 20 did test pits, a number of test pits. And what  
 21 was found were scrap metal basically and rubber,  
 22 old rubber parts, as well as this compressor.

23 PUBLIC: It wasn't municipal waste.

24 MR. TURNER: It's burned up now.

25 PUBLIC: It was more equipment

1 waste. We've heard stories that there's a car  
 2 buried in there and those kinds of things. It's  
 3 probably true.

4 PUBLIC: (Sharon Brown) That was a  
 5 pretty elaborate cap.

6 MR. TURNER: That was in the  
 7 negotiations, that's what the State, that's what  
 8 it...

9 PUBLIC: The feasibility has  
 10 excluded this. No pesticides, PCPs in that  
 11 neighborhood?

12 MR. TURNER: No, not really, no.  
 13 Those places taken care of were in those two  
 14 drainage areas and -- inaudible -- there's very  
 15 little.

16 However, there are, the ground water is  
 17 also of concern. I don't know if I mentioned it.  
 18 There are BOC solvents in the ground water.  
 19 And there's not a continuous plumb but there are  
 20 hot spots of tetroethylene and there's also a  
 21 -- inaudible -- but again also with fairly low  
 22 concentrations.

23 PUBLIC: (Sharon Brown) Are you  
 24 collecting any leeching and sending it off site  
 25 or just doing the remedial on site?

1 MR. TURNER: Right now, the site is  
 2 stable. It's not bothering anything including the  
 3 watch -- inaudible -- The surface water sediments  
 4 leaving the site will be studied carefully and  
 5 there's nothing leaving the site. It's just that  
 6 for the potential of future exposure, of people  
 7 percent -- inaudible -- to the ground water is the  
 8 main issue or persons to contact due to the  
 9 contents of the landfill or an illegal exercise  
 10 with same issues.

11 PUBLIC: (Lester Jargowsky) The  
 12 Navy is agreeing to put a landfill cap on  
 13 it. On the institutional controls, in the past  
 14 RAB was talking about that and if you need to  
 15 archive these controls and come back and visit  
 16 them so that the money being invested in the  
 17 improvement will sustain the activities  
 18 protected. Could you give us some idea what the  
 19 institutional controls might be put in place?

20 MR. TURNER: Yeah, I think so. Let  
 21 me grab another slide here. This is actually a  
 22 good one. Currently, if you remember the other  
 23 slide, there is a fence for the property of the  
 24 disposal office. There would be a different  
 25 fence. That fence would be removed. The new

1 landfill cap would be placed over the entire  
 2 landfill that we just described. The entire area  
 3 would be surrounded by a fence with a gate  
 4 including the access. So besides being within a  
 5 secure Navy base, there would be a fence around  
 6 the site as well with signs limiting access and  
 7 saying exactly what kind of things would not  
 8 permitted like excavation -- inaudible -- or cap.

9 MR. BURG: (Bob Marcolina) That's  
 10 swell. With that in mind are you going to do one  
 11 of your aggressive fence projects which would  
 12 include posts that you did in the others to keep  
 13 even the most aggressive sailor from taking a  
 14 trip?

15 MR. TURNER: Same thing.

16 MR. BURG: I thought he had found  
 17 that stuff somewhere else and just put it up  
 18 there.

19 MR. TURNER: All right. Those are  
 20 the features of the, and did I mention, all right  
 21 I did already mention but I want to still  
 22 repeat it, are the preferred alternatives is to  
 23 remove the sediments in these two area and put  
 24 them under an area that would be covered by the  
 25 impenetrable cap. All right, then one more slide.

1 We're in a public meeting, we're in public  
2 comments period. It ends January 31st. The next  
3 step after that would be the Major will  
4 incorporate comments received by anyone including  
5 regulators, it could be, but generally it might be  
6 from public. Any comments made during this  
7 meeting will be incorporated into response --  
8 inaudible -- followed by the next step in the  
9 process.

10 All right, if it's processed its record  
11 of decision or a legal document will be signed  
12 prior to -- inaudible -- with the EPA and then the  
13 next steps would be remedial action, design, and  
14 fill the cap design, and the construction as in  
15 the past. The people have been around. This  
16 process has gone through a number of former  
17 landfills at Earle. This is a picture I took last  
18 Friday. There's one of the former landfill. This  
19 was constructed in 1998 at Site 5. That's where  
20 it is. So it gives you an idea what that cap  
21 might look like if you don't already have an idea.  
22 We'll have, you know, barriers and locked gate, a  
23 sign says this is a landfill cap. It describes  
24 the kind of activities that wouldn't be permitted.  
25 I mentioned that there would be a gas management

1 some little areas -- inaudible -- that type of  
2 thing and that's all described in the report.

3 We're just talking about the Navy security  
4 issues. There is a map and this is the proposed  
5 plan here. I'm pretty sure. We made twenty five  
6 copies so there's enough for everyone here at the  
7 moment. If you would like you can get a copy of  
8 it. Take a copy tonight. We had to remove one  
9 map in here.

10 PUBLIC: The map that's up here.

11 MR. BURG: Okay, we had to remove  
12 that with the line that refers to that as well  
13 where the subjects of the station alternate.

14 Alternatively we can send this out with the  
15 minutes some time next week and that's this  
16 meeting. We're modifying the map -- inaudible --  
17 if you'd like to take it without the map you're  
18 welcome to it. Otherwise I'll plan to scrub the  
19 map a little bit and just send it down to the  
20 administrator. And is that in fact the schedule?

21 MR. TURNER: No. No, because the.  
22 As long as it's available in the public  
23 repository. If you want your own copy you can get  
24 one tonight without waiting.

25 PUBLIC: I'd like one.

1 layer. They will have vents. And they have to be  
2 maintained. Capping the landfills, vegetation has  
3 to be maintained so that we can still get you to  
4 the point where that is the permanent layer.  
5 That's all I have unless there are questions.

6 PUBLIC: (Sharon Brown) Who  
7 maintains the cap?

8 MR. TURNER: The Navy.

9 MR. BURG: The Navy is on the hook  
10 to maintain the cap. We just said where the  
11 information is available. More information is  
12 available in the Monmouth County Library Eastern  
13 Branch in Shrewsbury. And if you have comments  
14 the people to contact would be Larry Burg or the  
15 DEO or EFANE person, Michele. And you can get  
16 those addresses or talk to them right here.

17 PUBLIC: (Michele DiGeambeardino)  
18 We will be formulating an operation maintenance  
19 plan and I believe we have the contractor maintain  
20 the landfill caps for the first year and then the  
21 Navy will proceed at some point.

22 MR. BURG: And every year a report  
23 gets generated regarding the analyticals for doing  
24 the ground work sampling and when it was mowed, if  
25 there were any problems out on the site, review

1 MR. BURG: How about after the  
2 meeting, we'll give you one. But otherwise like I  
3 said we'll put that out at the next.

4 PUBLIC: (Michele DiGeambeardino) I  
5 don't know if everyone is aware of this but  
6 usually we call the public meetings half way in  
7 between the public comment period. Giving people  
8 the time to review it and have some questions of  
9 the meeting and then consider reviewing it.

10 MR. BURG: Are you all set, Russ?

11 MR. TURNER: Almost.

12 MR. BURG: Did you explain this  
13 picture?

14 MR. TURNER: I did. Yes. That's  
15 Site 5. That's the one that was  
16 made in 1998. The second. Four is the first.

17 MR. BURG: Up on top of Cranberry  
18 Hill there's water tanks, subsurface water tanks?

19 PUBLIC: Back there on D, if you  
20 remember, John.

21 PUBLIC: There's a ski range there.

22 PUBLIC: Yeah.

23 PUBLIC: It's actually quite  
24 beautiful. Believe it or not I've been there.

25 PUBLIC: The picture doesn't do it

1 justice.  
 2 MR. BURG: Do you have any other  
 3 questions? Throw them out there. My number is up  
 4 there. Feel free to call myself or Nancy in the  
 5 Public Affairs Office and we'll try to answer  
 6 questions and get back to you. We'd like to thank  
 7 you all for coming.  
 8 PUBLIC: You have these booklets,  
 9 there are reports, you say, here available?  
 10 MR. BURG: Yes, absolutely. Does  
 11 anybody have anymore questions? As far as trying  
 12 to get back on track with the last, again, I think  
 13 Greg held them every three to four months so we're  
 14 going to shoot for a first date in April. We'll  
 15 try to coordinate ahead of time. Ostensibly ahead  
 16 of time, Les isn't to be expendable. We're trying  
 17 to set a first date for April and once we get that  
 18 set we'll be able to include that in the minutes  
 19 also and then get a location. Most likely we're  
 20 not going to be on Station. Tourism, as I  
 21 mention, are kind of off limits and we'll try to  
 22 locate it again here or possibly down in Howell or  
 23 maybe -- inaudible --. Expressing my thanks, I  
 24 forgot to mention to all the contractors you have  
 25 working for us, first Russ, from up and down, Bob,

1 well back and forth but we had them for an entire  
 2 day. I always get a little bit disheveled --  
 3 inaudible --.  
 4 MR. TURNER: Thank you, Larry.  
 5 PUBLIC: Thank you, Larry.  
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1  
 2  
 3 CERTIFICATE  
 4  
 5 I, DOLORES ARMADA, Transcriber and  
 6 Notary Public of the State of New Jersey, hereby  
 7 certify the foregoing to be the truest and most  
 8 closely verbatim record able to have been  
 9 rendered by me, at a time subsequent to the  
 10 original audio taping of same.  
 11  
 12  
 13  
 14 \_\_\_\_\_  
 15 DOLORES ARMADA,  
 16 Transcriber  
 17  
 18 My commission expires:  
 19 April 25, 2006  
 20  
 21  
 22  
 23  
 24  
 25



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