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Proceedings -
Restoration Advisory Board
Naval Weapons Industrial Reserve Plant Bethpage

February 17, 2000
Bethpage Community Center, Bethpage, NY
7:00 P.M.

B e f o r e:

EDWARD MANGANO, RAB MEMBER
JAMES MCBRIDE, RAB MEMBER
LINDA MANGANO, RAB MEMBER
ROY TRINGALI, RAB MEMBER
EDWARD RESCH, RAB MEMBER

ALSO PRESENT:
MARTIN SIMONSON, DCMC
STEVEN SCHARF, D.E.C.

ELITE/GAGLIANO REPORTING
DAVID M. WEBER, RPR
OFFICIAL REPORTER/NOTARY PUBLIC

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MS. HARE: Ladies and gentlemen, we would like to get started. If you could take your seats, please. Thank you. For those of you who don't recognize me, because I have been absent for a while, I am Judithanne Hare. I am from the Naval Air Systems Command. I am the program manager for the Government-owned contractor operated facilities. This facility that we are concerned with, which is the Bethpage facility, is, in fact, a government-owned contractor-operated facility. And, I think we have got a good turn-out tonight. I appreciate all of you coming out tonight. It's very cold tonight so I appreciate the fact that you are dedicated enough to do this. If there's a prize given out for the guy who came the longest distance to be at this meeting, it has to be Mr. Bill Pakulis who is from Bloomfield, Connecticut, who has come down to observe this Restoration Advisory Board. Bloomfield, Connecticut is the site of another of our government-owned contractor-operated facilities. And, we will be instituting a RAB there soon. So, Mr. Peculas is here with us tonight to see how one actually operates. Welcome. Thanks for coming such a long way.

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MR. PAKULIS: Thanks.

MS. HARE: At this point, I am going to turn it over to my co-chair and we are going to get started quickly with the program. I think there are a couple of folks, maybe more than a couple, that have other meetings this evening. So, if we can move the meeting along that's going to be helpful so we can get out of here at a reasonable hour and these folks can get to their other meetings and I might get more than five hours of sleep tonight. Did everybody get a copy of the minutes? The RAB members got a copy?

MR. MANGANO: Yes.

MS. HARE: Are there any omissions or corrections to the minutes?

MR. MANGANO: None.

MS. HARE: Motion to accept the minutes.

Motion moved and seconded that we accept the minutes. All those in favor please signify by saying aye.

MR. MANGANO: Aye.

MR. MCBRIDE: Aye.

MS. MANGANO: Aye.

MR. TRINGALI: Aye.

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MR. RESCH: Aye.

MS. HARE: Those opposed? Motion carried. I guess we will start then with the co-chairman of the committee. To expedite everything, why don't we just get into the presentation and see what we have. It will give us more time for questions and answers. We will move on that way.

For those who don't know, Jim Colter is the Project manager out of the Navy's Northern Division with offices down in Philadelphia and project manager for the overall clean-up of this site.

MR. COLTER: Many of you came to the site or conducted a tour back in early December. Later on, for any new members that become part of the RAB, if anyone wants another tour of the site just let me know and we will arrange something for you. It was well received. It was a good turn-out and a lot of people found out what pretty decent condition that property is in right now. So it was very helpful to actually see what we talk about here each night.

Back in early-- a couple of weeks ago in early February, February 7th to be exact, we held a technical meeting and, just to explain what a technical subcommittee portion of the RAB is, it's

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where the Navy and it's consultants and the regular community get together to basically make the decisions for the site. RAB members are obviously invited. However, sometimes we hold these meetings in Albany but sometimes we hold them here on the Island so, Jim?

MR. MCBRIDE: On that subject, I would just like to recommend to the Navy my personal opinion. I haven't had a chance to survey the RAB members but the understanding that we have-- I will just describe the advisory board decision-making body but, if the regulators are in favor, I would like you to schedule those technical meetings down here on the Island so we can attend.

MR. COLTER: Okay. We have had a similar request that the RAB group out in Calverton-- and we have pretty much been doing that. The Albany regulators sometimes that coordination is difficult. But, what ended up happening this time is we actually had to have a tele-conference. I think it went well but sometimes meeting and doing presentations offers a lot more value but we will work with everybody and see if we can't come up with something.

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2 MR. MANGANO: Ed Mangano. Are there minutes
3 taken at these hearings?

4 MR. COLTER: Yes.

5 MR. MANGANO: Maybe RAB members can receive a
6 copy of the minutes if they're held in Albany.

7 MR. COLTER: What I have tonight is the agenda,
8 and I have the minutes here. I don't think we made
9 copies of them. The presentation tonight is
10 basically centered around what the technical review
11 committee meeting was. What I want to do is bring
12 Dave up from Tetra Tech. He's the Navy's own
13 enviornmental consultant on this property. And,
14 he's going to go over basically a history of what
15 we have been doing, some of the reasons why we are
16 to the point we are at today with our installation
17 sites. Following that, I am going to introduce
18 Marlene Lindhardt and she's from the Foster Wheeler
19 Corporation. She's the Navy's own enviornmental
20 consultant. And, basically, installs the remedial
21 systems that the D.E.C. and other regulatory
22 members and the Navy decide, finally decide upon to
23 install them. She's been operating the Air Sparging
24 Vapor Extraction System out at the site, one of the
25 former Grumman areas. And, she's going to give us a

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1 presentation on the history of that operation and
2 where we are at today. I will come back up and I
3 will do a little presentation on what the rest of
4 that technical subcommittee meeting was all about.
5

6 MR. MCBRIDE: When are we going to be able to
7 have a discussion or be able to bring someone in to
8 discuss the ground water? I understand there's
9 some concerns right now between Grumman and the
10 Water District regarding another treatment
11 facility.

12 MR. COLTER: I will tell you what: one of the
13 items at the end of this presentation of mine will
14 be a discussion of the status of the Ground Water
15 Operational Unit and I know Steve Scharn from the
16 D.E.C. is here and we will get into the Navy's role
17 in this.

18 MR. MCBRIDE: Excellent.

19 MR. COLTER: Dave?

20 MR. BRAYACK: For the RAB members I have a copy
21 of these extra sets of printouts. I do have extra
22 copies here too, if you want to get them at some
23 point.

24 Basically, I am just going to give a brief
25 presentation on the ground water from the Navy

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property. I just want to point out that the ground water in the area is very complex. The Navy's property is pretty much outlined in blue here. For the most part, when we talk about the Navy's property, that's the 105 acres, Plant 3 being this building that you could barely see here. The Navy does have a couple of other pieces of property and is pretty much not a concern. The green around here and the green around here is the boundaries of the former Northrop Grumman property. I think most people know that a good portion of this property has already been transferred to other entities. So, just keep it in mind that Northrop Grumman does not own all of this right now. In addition, there is a Ruco site located here. Ground water in this area is very complex. There's a general regional ground water flow to the south and the east. North is straight up on this. What we have done basically is there is some contamination in the Navy property, some concerns here and concerns here. And, the contamination, all co-mingling in the area right here. It's a very complex situation. We have most of the chlorinated solvents, the chlorinated organic chemicals such as trichloroethylene,

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perchloroethylene, that being a dry cleaning solvent. Another chemical called trichloroethane. In the ground water all these chemicals degrade, they break down to other chemicals. What there is, once again, is the Navy property. Once again, Plant 3 is here. South Oyster Bay Road pretty much comes down along the edge here. As part of the investigation of the sites back in 1986, the Navy went through and did a record search and identified all of the historic waste activities. They pretty much narrowed the primary concerns down to what's known as three sites. Site one is the location of a former drum storage. There were actually two of them there. This is where when waste solvents, waste oils, and other types of wastes would be placed in the drums. Drums would be stored here and then until a truck load or so generated and then taken off site.

Site 2 is what's known as the recharge basin area. There was a sludge drying bed in this area here that was closed out. The three recharge basins you see the different colors because, when this aerial photograph was taken, I guess two of them had water in it. One of them didn't. These basins

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took non-contact cooling water from Northrop Grumman and a/c units.

The third site was known as the salvage storage area and it's components were being made and scrap material was taken and stored in this area here. In the early nineties we came in and checked samples throughout and pretty much what we found was there are definite problems in Site 1. There are some smaller problems at Site 2, although we did come back and wind up excavating the whole bunch of soil from this area. And Site 3, the probable cause of the waste material is just scrap metal. We didn't find much of a concern. What I would like to show is a series of some of the monitoring wells that were installed as part of this program around Site 1. Ground water once again goes to the south and the east here. What we normally do in this type of investigation is install monitoring wells to the south of the site and install some monitoring wells up-gradient and we are looking for a pick-up in contamination across the site. We did find it in this location. We also put some wells here and here. To investigate this site, these wells here serve to

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look at the down-gradient on this site. And, for this site here we put in monitoring wells down-gradient. As part of the separate investigation Northrop Grumman scattered a lot of wells on their property too. And some of the wells served as our up-gradient up in here. You also see this area here. It is an area that we referred to as HN-24. HN-24 is actually a monitoring well name. It is an "N" as in Nancy. At this time there are no-known source areas. Later on we were able to identify a source area in this plant. But, we had some trichloroethylene ground water contamination in this area as well. The other thing we did-- this, here, by the way, is a G.I.S. system. What the system does is it links all of the locations of the points. It links all the location of the points to the analytical data base. And at this point in time, I forget the exact count, but I think we have over a hundred thousand individual data points. But, what I wanted to point out here, as part of this investigation, we had some concerns in this area and we installed monitoring wells out in the neighborhood here and here and it's not shown, maybe pick it up on here, but there's another set

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of wells out here. You want to go to the next one. Okay, there are just a couple of things I would like to talk about on this one. When we put these wells in, what we normally do is sketch out or generate what we call iso-concentration contour maps, kind of like topographical maps. This here represents locations where we had greater than one thousand micrograms per liter of chlorinated solvents in the ground water. For comparison, the M.C.L.s, the M.C.L.s being the drinking water standard, was five micrograms per liter. So, based on this data, we were concerned about this being a significant source area. The yellow, I guess there's a couple of yellows here being the next line out is 100 micrograms per liter and you could see that area is actually much bigger. We get down to the 10 micrograms per liter range and the five, once again, being the drinking water standard. You know, we are pretty much out in this area here. What we are looking for is source area. That's primarily what this shallow ground water investigation is concerned about. We use the shallow ground water data. Any time there's been a spill into the ground water it usually shows up in

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the shallow first. There's exceptions to that but, this is pretty much standard. The other thing I would like to point out on this map are these squares with the "x's" through it. Each of these represent production wells. Production wells generally being a thousand G.P.M. wells at Northrop that Northrop used. The majority of the water was used for their non-contact cooling a/c units throughout the facility. The water would be extracted from these wells and it would wind up in a series of recharge basins throughout the facility. On the Navy property there's these three known as, once again, Site 2 recharge basin area. Northrop Grumman also had more active ones here and there's some more further to the south. What happens because of these recharge basins and because of these production wells is that the ground water flow direction changes drastically. And it also moves vertically much quicker than it normally would. Ground water here is recharged at a depth of about 50 feet below the ground surface. That's where the water table is. Ground water in these wells, these are all variable but extracted around 500, sometimes 600 feet below the ground

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2 surface. So, what you wind up seeing is shallow
3 ground water moving a short distance and sinking 5,
4 600 feet. The same is true down here.

5 I did mention that we did have a third set of
6 extraction wells out in the neighborhood and these
7 were located out here. The second map shows what we
8 consider to be the intermediate depth ground water.
9 It is generally about 100 to 150 feet below the
10 ground surface which you will notice from this map
11 there's a couple of things. One is that the
12 contaminated areas are now much further out, areas
13 where drinking water standards are exceeded. Some
14 cases aren't truly bounded in the neighborhoods. We
15 have 10 micrograms per liter range. Keep in mind
16 too that most of this data from the 1995 timeframe.
17 That Northrop Grumman, the Navy, are working with
18 New York State, just checked a good bit more data
19 since then. Some of these micrograms are changing.
20 This area here no longer is nearly as contaminated
21 as shown on this map. But, basically, what we see
22 is a lot of this contamination is a thousand
23 micrograms per liter range having originated most
24 likely from the Navy's property and, perhaps, some
25 source areas up in here.

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2 MR. MCBRIDE: Dave, are you going to be able to
3 show us this new data for comparison?

4 MR. BRAYACK: Not at this point, no. This is
5 being worked on currently by Northrop Grumman and
6 the State. We do have some of their maps but most
7 of their maps are-- Steve, can you address that?

8 MR. SCHARF: Well, the feasibility study is
9 about to be finalized. And, as part of the
10 feasibility study, Northrop has put together ground
11 water model based on the current quarter monitoring
12 that they do on the pump and treat system and also
13 where the contamination should move over time based
14 on clean ground water flow dynamics, that's going
15 do be released shortly for public review. And that
16 will explain-- that will answer a lot of your
17 questions. I think, though, what you see here, a
18 lot of it in some ways has remained uncharged
19 because Northrop Grumman was pumping somewhere
20 between 15 and 250 million gallons of water every
21 day, treating that water and then discharging it
22 back on site so recycling a lot of water so a good
23 deal of the contamination has remained on site.

24 MR. MCBRIDE: Okay.

25 MR. SCHARF: Keep in mind, Jim, an extensive

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2 amount of contamination in the ground water here.
3 It's hard to find a field for the area but when you
4 start at the north end of the Navy property and go
5 down to the south end of Grumman property you are
6 looking at probably 6,000 feet, maybe, you know,
7 almost a mile and a half.

8 MR. BRAYACK: That's why I am looking at this
9 and saying it is quite extensive.

10 MR. SCHARF: Exactly.

11 MR. BRAYACK: This is just the northern portion
12 of it goes much further.

13 MR. SCHARF: This is the intermediate zone.

14 MR. BRAYACK: Yes.

15 MR. SCHARF: You call that extraction. You
16 meant monitoring well, that one.

17 MR. BRAYACK: These are monitoring wells. As
18 part of--

19 MR. MANGANO: This is referred to as the plume.

20 MR. SCHARF: That's correct.

21 MR. MANGANO: I remember back in '91, we saw
22 maps that this went south of Sunrise Highway as far
23 as it can.

24 MR. SCHARF: Sunrise Highway, from Grumman--

25 MR. MANGANO: From Grumman.

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MR. SCHARF: I have seen even that.

MR. TRINGALI: South-east.

MR. SCHARF: Past Central Avenue going toward Hempstead Turnpike where the Bethpage Water District wells are located and that I would agree with.

MR. MANGANO: You are monitoring drinking water standards. But do we drink any of this water? Is any of this water pumped to be drank?

MR. SCHARF: Some of this water, from the Grumman property with contamination in it has affected the Bethpage Water District wells. Those wells that have been affected all have treatment on it to remove these contaminants. We are talking perchloroethylene and trichloroethylene.

MR. MANGANO: What about Plainedge?

MR. SCHARF: It has not affected those wells. Those are further south.

MR. MANGANO: Plainedge is right on the Hempstead Turnpike Road borderline.

MR. SCHARF: Plainedge, itself, I'm not sure where their monitoring wells are located but just to let you know, all monitoring-- all drinking water wells in all of Nassau County are all

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2 monitored quarterly to make sure that they don't
3 have these contaminants in the drinking water
4 supply. All of Nassau County has potential problems
5 because of industrialization, commercialization and
6 residential development. It has that potential to
7 become affected by these contaminants.

8 MR. MANGANO: I believe Bethpage monitors
9 monthly.

10 MR. SCHARF: Right, because they have been
11 affected; that's correct. They now monitor monthly.
12 In fact, Nassau County just sent me something on
13 that. They have a whole chart for all of the
14 district wells in Nassau County.

15 MR. MANGANO: Are you with the D.E.C.?

16 MR. SCHARF: Yes.

17 MR. MANGANO: They had to close it up last
18 year. I don't know if you were there but the
19 representatives of D.E.C. gave an update on what's
20 going on on the property and they recorded that for
21 the first time has actually receded, is that
22 correct?

23 MR. SCHARF: Based on the information that
24 Grumman presented, on the I.R.M., they have cut off
25 contamination along Central Avenue. However, there

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2 is contamination south of Central Avenue that's
3 gone beyond the recovery wells that are now being
4 operated. That's part of the contamination that's
5 affected Bethpage Water District wells. It's gone
6 deep. As Dave was saying it was drawn down deeper
7 by the Grumman production wells and then so it
8 moves slower but it is deeper and it is off site.

9 MR. MANGANO: How much deeper?

10 MR. SCHARF: It varies. It can go down I think
11 as far as three, 400 feet deep.

12 MR. COLTER: It is kind of a unique set-up with
13 regards to the way Northrop Grumman, the Navy and
14 the D.E.C. are working together. Particuarly the
15 Navy's moving out on it's own program. And we
16 basically are the lead authority as far as we make
17 our decisions what we want to do. We run them by
18 the State. As long as there's no real heartburn we
19 proceed and the Navy, actually this data that you
20 are seeing, Dave said was '91 to the '94 timeframe,
21 we actually based it on this map. We were proposing
22 our own ground water treatment system on our
23 property and a little bit on the Grumman's property
24 to address basically what Northrop Grumman is doing
25 to contain it on the Navy's property. The D.E.C.

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came in and said it didn't make sense for us to clean our ground water. It goes down-gradient. It mixes with Grumman's contamination and really didn't accomplish anything. Why don't we work together? For the last four or five years, that's exactly what we have been doing and the culmination of this feasibility study we pretty much saw what the remedy was going to be. Northrop Grumman moved out and conducted that system when we called it interim remedial measures, which means you could put a system even though it hasn't been publically reviewed or anything like that. And, that's what happened. Northrop Grumman did that and we are going to show you some maps. But the ground water issue, as Steve said, that's being run by the D.E.C.. The Navy at this point is a willing participant as is Northrop Grumman. Collectively we decide the-- we will let Northrop Grumman do the bulk of the work since they had a good computer model. They had been quarterly sampling off-site for years. The Navy's agreed just to let them keep running that. I know ground water really is the big issue but we are really going to have to wait until the D.E.C. gives a similar presentation. And I

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2 offered to Steve that he could make that
3 presentation here at the RAB, if he so chooses, as
4 part of his community outreach program. That's
5 going to be a D.E.C. decision.

6 MR. SCHARF: We are working on that.

7 MR. COLTER: What we are doing here is try and
8 get you a flavor of what the Navy has been doing
9 for the last ten years here, what's left to do on
10 the Navy's property. And we will get a little bit
11 into our action with the ground water. But all
12 ground water questions are going to be handled by
13 the D.E.C. as part of their community outreach
14 program.

15 MR. MCBRIDE: Jim, I have a little confusion on
16 that, though, but, under the RAB, we are dealing
17 with contamination and one operational unit is the
18 ground water situation. So even though it's being
19 dealt with by the Navy, my reading of the RAB
20 document that we still should be involved in the
21 advisory capacity or review capacity.

22 MR. COLTER: And, I will let you know what the
23 Navy's actions are as part of that tonight. I will
24 show you how the Navy is participating in this
25 overall program. Like I said, it's unique because

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2 Northrop Grumman, being from the private sector,
3 does not have the same Congressional mandates as
4 the Navy does and this RAB has a Congressional
5 mandate where we spend Congressional dollars. We
6 have to keep the community informed. This is a
7 little different because Northrop Grumman doesn't
8 have that requirement. So a lot of the information
9 that you are looking for I don't have.

10 MR. COLTER: It's being put together by
11 Northrop Grumman and I just don't have it and it's
12 voluminous but we are going to hopefully use the
13 RAB for the outreach. I'm going to show you what
14 the Navy's involvement is and we are agreeing or
15 disagreeing with certain things that happened. As
16 to the updates, we will keep you informed of what's
17 going on.

18 MR. MCBRIDE: I would think we would have to if
19 the Navy--

20 MR. COLTER: Not all of it.

21 MR. MCBRIDE: If they're funding a portion of
22 it they're still part of it. And, I would think
23 that under that mandate that they have to be part
24 of the whole.

25 MS. HARE: You have to remember they are a

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2 private corporation here and they have property
3 that belongs to them and they're doing-- they opted
4 in the beginning to take on a certain
5 responsibility here. Not all contractors who have
6 operated Government facilities do that. They just
7 stand back and say, we are not taking any
8 responsibility here, you know, the Navy can clean
9 it up and then tell us about it later. That
10 happened to us in other states but, what we had
11 going here was a contractor that did step up to his
12 responsibility and did say that they were willing
13 to go ahead and they had property of their own to
14 be concerned with. So it's kind of Northrop
15 Grumman's objective here is to approach it as a
16 whole total issue for them to work on the Navy's
17 property as well as their own property.

18 MR. MCBRIDE: Okay.

19 MS. HARE: We have to recognize that they are
20 participating with us. They're working as Jim said
21 with Jim and with the regulators and so on but, you
22 know, as the program manager, I can't go to
23 Northrop Grumman and make demands here.

24 MR. MCBRIDE: I am not suggesting that but if
25 the RAB is operating again maybe we have to get a

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2 letter of intent for what the RAB's purpose is in
3 regards to ground water. As I read it, the Navy
4 had a ground water contamination. The RAB is part
5 of the ground water contamination. If the Navy has
6 chosen to buy in to this big program, which makes
7 sense, from what I am seeing so far we should be
8 part of that process.

9 MS. HARE: We will share all information with
10 the RAB. I mean that goes without saying. The
11 Navy-- well, okay. What we can't do is we can't
12 force the contractor to do a similar kind of thing.
13 If you understand where I am going with this.

14 MR. MCBRIDE: Correct.

15 MS. HARE: Ultimately, I think you are going to
16 see it all any way. You see any information that we
17 produce in regard to any of this becoming public
18 information and thereby that is shared with the RAB
19 and with anybody else that wants to see it.

20 MR. MCBRIDE: If the Navy is part in the
21 funding of this, does that not make all the
22 material public because the Navy is part of it?

23 MS. HARE: No.

24 MR. SCHARF: You have got to remember that as
25 Judith was saying, the Navy property was operated

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by Grumman. Grumman has their property separate. Navy Property Class 2 and it has it's waste site under New York State law E.C.L.. It is Grumman property. However, the Navy does not sign a consent order with the State. They just sign a memorandum of understanding and we broke off operational units to deal with sources of contamination. Site 1 on the property and the area behind Plant 2, which is Grumman property. And, together, the Navy has signed on with Grumman to produce a feasibility study under New York State law that will address Operational Unit 2 which is the ground water issue. And, as Jim was saying, that that is something the State is handling. I have a draft proposed plan on that but we keep changing it because there's a lot of different groups putting comments in it before we can even get it out to the public. I am hoping that we can finalize that within the next four to six weeks. I am working on that among a lot of other issues that's coming. So, the Navy has agreed to help fund Grumman on the regional ground water remedy.

The other issue that wasn't mentioned here, there is a third site, a Hooker Ruco site to the

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1 north, which originally, we were trying to produce
2 a joint feasibility study and, for a number of
3 reasons, that took three years of negotiating and
4 working on it and finally it fell apart. In the
5 meantime the State, as Jim was saying, told Grumman
6 to put the I.R.M. on line and they did and it's
7 working quite well. So, what happens is, under New
8 York State law, the D.E.C. has to hold a public
9 meeting and the D.E.C. is requiring Northrop
10 Grumman under this order upon consent with the
11 State, to produce a feasibility study for which the
12 Navy has agreed to be a part of. So they're more or
13 less like going along for the ride on that. And
14 they will work out between Grumman and the Navy,
15 how to handle funding. For example, on the long
16 term monitoring ,that we would be putting in as
17 part of the overall remedy, the Navy is agreeing to
18 install a number of additional off-site monitoring
19 wells at a great cost because the deep wells are
20 very expensive. So, that will be handled under
21 public meeting that we will be putting forth
22 shortly. However, because it's tied together the
23 Navy is discussing the ground water issue because
24 they have contaminated ground water and so they
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2 want the RAB to know that, as part of the Navy
3 property, it's a source area ground water
4 contamination. And as Jim was saying we will be
5 concluding that issue shortly.

6 MS. SEIDEN: If I am correct, I think the Navy
7 has assumed responsibility for the contamination
8 that was found in the contaminated, either one or
9 two of the Bethpage wells; is that correct?

10 MS. HARE: The Navy has assumed responsibility
11 for the Navy's property. However, our contractor on
12 board that property, I mean always when you are the
13 property owner you are responsible. However, our
14 contractor, who has operated that property for 50
15 years, has agreed to share that responsibility.
16 That's a good thing because, as I stated earlier,
17 that doesn't always happen and, in some cases, the
18 contractor, actually in one of my facilities, just
19 vacated the property and left and said, "sue us."
20 That's very expensive for the taxpayer when that
21 scenario happens. With this contractor, he is
22 saying, we would rather get in here and share
23 responsibility now and not have to battle it out
24 later, in essence.

25 MS. SEIDEN: My question is: Is there any way

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2 of knowing how long those wells, those contaminated
3 wells, were used and how long the people of
4 Bethpage drank the water-- contaminated water from
5 those wells before it was discovered?

6 MR. COLTER: That would best be answered by the
7 Water District that supply the water. I am not sure
8 if anyone is representing them here tonight but
9 they would know the first times that they
10 determined contaminants in their well and what they
11 did about it.

12 Now, I can tell you that when the first well
13 got identified by Bethpage, Northrop Grumman went
14 out and put a treatment system on one of the wells.
15 Since then we have been tracking the contamination
16 towards two other Bethpage plants that hasn't
17 reached it yet as a safety factor. Northrop Grumman
18 put another set of treatment systems on the second
19 series of wells and the Navy paid for a treatment
20 system on the third set of wells. So, my take on
21 that, your answer is you haven't been exposed to
22 drinking contaminated water. Because as soon as the
23 first detections occurred Northrop Grumman went
24 out, the Water District brought it to their
25 attention. They put treatment on the wells. The

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other two haven't been impacted yet but they also have treatment on them now.

MS. SEIDEN: Can you tell me when contamination first came in those wells?

MR. COLTER: The District can. The District can tell you that because they sample the well but I am not sure of their frequency. You would have to go to the Water District for that answer but I can tell you, they're mandated and they would not be supplying drinking water that's contaminated. I could guarantee you that.

MR. SCHARF: Nassau County has been sampling all of the wells for a long time. I don't know how long exactly and the Health Department would be best to answer that question as to how, when the first time contamination was identified. Was it sampled before that and, generally, if they are sampling it quarterly and a well is identified as being contaminated that wasn't before. It just doesn't suddenly show up as being high enough to be unacceptable. It, generally, given the detection limits that we have today, it shows up at very low numbers, way down in the part per-trillion range.

MR. MANGANO: That wasn't what she meant.

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2 MR. SCHARF: We can't answer that question
3 tonight. I don't have that information. But, I am
4 willing to bet that they realized this was coming.

5 MR. RESCH: Would that be part of that
6 feasibility study that you are working on now, are
7 contaminants that might have gone into the wells,
8 yet, it is true we might be monitoring them
9 quarterly, does anybody know the level of the
10 contaminant. Maybe if I drink one glass of that
11 water and I die or if it's over the next 50 years
12 or something.

13 MR. COLTER: The thing is this, unfortunately
14 there isn't someone from the Health Department here
15 tonight to answer those, you know, health or
16 risk-based questions. So, they couldn't make it
17 tonight but we don't want to put you off. I would
18 like to say we should let Dave finish his
19 presentation before we go on to the questions and
20 let him present all technical information and then
21 we will go to a question-answer period and it be a
22 lot more helpful.

23 MR. MANGANO: So you don't leave with fears,
24 and I am not the person, the authority to give you
25 this answer, but I have been at many hearings since

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1991 where those questions have been asked and addressd. First of all, statistically, all that data is available at our Water District. Their monitoring exceeds Nassau County standards which are quarterly. They monitor monthly. I am positive of that.

MR. SCHARF: That's true.

MR. MANGANO: I believe you will find that Northrop Grumman had to monitor itself as well and were sent to another independent laboratory and that is available as well. I know at other public hearings it was asked had we ever drank that contaminated water? And it was answered, no. But, I suggest that if you go to the Bethpage Water District it has that information. And they would be more than willing to share it with you, volumes of it.

MS. HARE: Dave.

MR. BRAYACK: Yes. This is a very complex issue. Getting focused back on this again, the incidents of contamination production wells are basically pulling what was originally shallow ground water contamination back into them. These production wells will pick up-- ultimately pick up

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2 this contaminated ground water, dilute it out and
3 distribute it out it into various recharge basins.
4 It was their concern particularly out in this
5 neighborhood where we started seeing no
6 contamination in the ground water, which would be
7 about 50 feet below the ground surface. But, if you
8 went another 50 to 100 feet below that we started
9 seeing contamination. Okay. I don't know if you
10 will notice but as we continue our discussion our
11 maps keep expanding outward. We had to switch maps
12 here because our aerial photograph doesn't cover
13 the area but, once again, here's Plant 3 at the
14 Navy, part of the former Northrop Grumman areas,
15 the residential neighborhood to the east. What we
16 wound up doing is we kept seeing ourselves continue
17 to move out to the east. What we have here is,
18 basically, what we consider to be a primary source
19 contaminant flow pattern. This is where we saw the
20 hundreds and the thousands parts per billion range.
21 Production wells make this undiluted. It may be in
22 the five to fifty part per-billion range and then
23 recharged it here. As Steve had pointed out earlier
24 throughout this whole facility, approximately 15 to
25 20 million gallons per day of ground water were

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2 being pumped around in the summer and what that did
3 was resulted in tremendous outflows from the
4 recharge basins. Ground water from these recharge
5 basins would flow in areas and directly wind up
6 being intercepted in a production well scattered
7 throughout. We put out and did some computer
8 modeling and we asked the question what is the
9 worst-case scenario? How far out to the east could
10 this have gone? And what we did is we came up with
11 this projection. And, once again, this is an
12 absolute maximum prediction as to where
13 contamination from the Navy property could have
14 flowed into the eastern direction. These
15 concentration amounts we measured out here were
16 generally 10 to 20 parts per billion. Drinking
17 water standards are five.

18 MR. SCHARF: Can I ask you a question, Dave?
19 Betty, this may answer your question that you have
20 been asking for a while on that. Betty, I asked the
21 first question. The shared area is a modeled, the
22 ground shared area around Bethpage all the way
23 around toward Bethpage State Park.

24 MR. BRAYACK: Yes.

25 MR. SCHARF: When was the model done?

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2 MR. BRAYACK: It was done as part of the Navy's
3 feasibility study.

4 MR. SCHARF: Back--

5 MR. BRAYACK: '94,'95 timeframe.

6 MR. SCHARF: That's also part of the figure 5-2
7 of the Grumman RFI report.

8 MR. BRAYACK: That's correct.

9 MR. SCHARF: That's your data you shared with
10 Grumman because I was asking that to Carlo
11 Sangiovani. He wasn't sure what that was new you
12 are explaining to me, yet I maybe that explains
13 that model that was run six years ago to predict
14 the area would be the maximum. Dave, go ahead.
15 Continue with what you were saying.

16 MR. BRAYACK: This would be the maximum extent
17 that it should come out.

18 MS. SEIDEN: Dave, did you ever measure out
19 there?

20 MR. BRAYACK: We put monitoring wells here,
21 here, here. Northrop Grumman had monitoring wells
22 down in here and even further to the south. So,
23 basically, everywhere we showed the maximum
24 possible extent to corroborate that we had ground
25 water data pretty much confirmed it.

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2 MR. MANGANO: Since this date, three to five
3 years old, it just begs the question, is this for
4 today's purposes, do you find the plume decreasing
5 with present methods that are in place or is it
6 having no effect?

7 MR. BRAYACK: What we know, and we could talk
8 about this. Like I said, back at the time in the
9 '95 timeframe, the Navy prepared, basically, an
10 extraction well in this area that contain-- this
11 big area-- the most contaminated ground water where
12 it's at. This here, this is an example of something
13 that came out of the Northrop Grumman. It is a
14 current figure. Steve, you might have just got this
15 as well.

16 MR. SCHARF: Right; I was mentioning that to
17 you, Jim.

18 MR. BRAYACK: For reference, once again, the
19 Navy property is right in here. What is known as
20 particle track analysis. And, it's a very
21 sophisticated computer model and what the model
22 does is it says you release particles at different
23 areas. And, what this is is an example of particles
24 being released into the ground water and then it's
25 a time model. It says, okay, ground water flow as

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2 you will, basically. And what you are seeing here
3 is particles released from the Navy property would
4 flow down here. The red to yellow to green to blue
5 to purple to black. What those represent would be
6 the depth below the water table or actually goes on
7 this. These are darker. Steve, how deep to the
8 on-site containment?

9 MR. SCHARF: I think about 500 feet deep. You
10 may want to just explain that as the color changes
11 on that element that he is going to different model
12 layers deeper in the ground.

13 MR. BRAYACK: That's right.

14 MR. COLTER: Containment is a separate model
15 that Northrop installs. This is I.R.M. that I
16 talked about earlier. This is what Northrop
17 installed before we have the final remedy agreed
18 to. This is what we all thought would be the final
19 remedy and Northrop went out and installed it about
20 a year and a half ago. It's been operating for
21 about a year, year and a half now. This is showing,
22 this was what the design was based on and,
23 basically, I will let Dave continue. He will get to
24 what it means but this is the I.R.M. as Northrop
25 designed it.

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2 MR. BRAYACK: Basically, a couple of things.
3 One is increasing depth. Basically, all the shallow
4 ground water, 50 feet below the ground surface
5 would have passed through approximately 150 feet,
6 250 to 300 feet deep, ultimately to 500 feet deep.
7 One thing I would like to point out is when we show
8 these huge flumes and these flumes do get very
9 large because they continue on down here, is that
10 most of this contamination is very deep, hundreds
11 of feet below the ground surface. We are not saying
12 that all the ground water is contaminated. What we
13 are generally seeing are thin lenses or thin layers
14 of ground water contamination moving through the
15 aquifer, primarily from, you know, shallow ground
16 water, getting pulled into different-- In these
17 cases, these are on-site containment wells, one,
18 two and three. And, as part of the system, Grumman
19 has one of their production wells. This is a
20 several thousand G.P.M.. It is a little bit smaller
21 but not much. And, what the entire Bethpage Water
22 District is pumping. The second thing I would like
23 to point out is basically all the contamination
24 from the Navy properties, especially in the area,
25 is currently being contained by these on-site

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2 containment wells. The problem has not been solved
3 but is now stabilized and, Steve is working on the
4 final remedy for the entire area and that's
5 somewhat involved in because it's directly from the
6 Navy yard. What goes beyond here is a separate
7 action.

8 MR. COLTER: When Dave says what's beyond that
9 system, to clarify, that what has flowed passed the
10 boundary before we got this system installed. As of
11 now, as you can see that system has been running,
12 all the ground water from the Grumman-Navy property
13 is contained so it's basically not flowing
14 off-site. It's being recycled and cleaned up and
15 re-injected. But, before we put the system in
16 obviously contamination already flowed passed.
17 That's what the final part of the remedy is going
18 to address. Anticipating that, that's why we went
19 and put these treatment systems on the water supply
20 well because we already know that it had flowed
21 off-site. So, we took that precaution and this
22 precaution immediately. So, we're getting there.

23 MR. MANGANO: Your final remedy addresses the
24 off-site contamination you try to recapture that
25 off-site.

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2 MR. COLTER: In some way it's too early to try
3 and explain that. We haven't really made a final
4 decision yet on that.

5 MR. MANGANO: Right. Okay, that's what--

6 MR. COLTER: It will address the off-site and,
7 you know it may, at this point, we are not sure. We
8 have treatment on the well. That maybe all we have
9 to do. We may have to do something else inbetween
10 the well and the Grumman property. That decision
11 hasn't been made yet. That's what the D.E.C. is
12 working on right now.

13 MR. MANGANO: When you say the decision, the
14 decision is to either do it or is the decision
15 meaning to try and identify it or--

16 MR. COLTER: It's been identified and that will
17 be in the feasibility study. When you see it, the
18 feasibility study is a book that's six inches thick
19 so--

20 MR. MANGANO: That's why I am asking you.

21 MR. COLTER: It's been identified but the
22 D.E.C. hasn't made a final decision, as to what is,
23 what they want us to do. We have got the supply
24 well protected. That may be all that they require--

25 MR. MANGANO: You will report on that at

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another RAB as to where we are going?

MR. COLTER: Steve will report as part of his thing.

MR. SCHARF: We could-- actually, if you want to combine that public meeting as a RAB or--

MR. COLTER: We will talk about that--

MR. SCHARF: We will go forward with that, Ed, in either forum, whether the State does it or the Navy does it, just as long as you know, we know how it's addressd.

MS. HARE: It will be communicated.

MR. BRAYACK: Okay.

MR. SCHARF: I have that here tonight. It's a draft copy but it's not released yet. We are working on that so, it is, it is in print and it's going to be released shortly.

MR. MANGANO: Okay, but we can't get a copy now?

MR. SCHARF: No, because I still have to get additional comments from all the reviewers on it.

MR. MANGANO: Thank you.

MR. BRAYACK: Now, just backing up here for a second, and I am going to be done. I think Marlene will be talking in a little bit but, basically, as

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2 part of the ground water investigation throughout
3 the Navy property. But, again, we are looking for
4 the source. The solvent contamination came from
5 somewhere. The question is where did it come from?
6 When you have these contours like this it basically
7 points back to a source area. There's a thousand
8 parts per billion. This is a possible source. When
9 you go up-gradient it's relatively clean. As soon
10 as you hit that you start finding contamination.
11 This is Site 1. Marlene is going to talk about the
12 existing source area treatment system on this. The
13 other thing is based on these other contours. Yes,
14 there is some other ground water contamination.
15 Most of it has been resolved or addressed.

16 That pretty much concludes my presentation.

17 MR. MCBRIDE: Dave, I am not good in
18 hydro-geology. Could you give us an overview of the
19 make-up of the ground water and what's being
20 affected?

21 MR. BRAYACK: The makeup--

22 MR. SCHARF: Like is it sand or--

23 MR. MCBRIDE: How is it you have identified a
24 track? Give us a little flavor on it.

25 MS. HARE: The layers you're talking about?

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MR. MCBRIDE: Yes.

Any confining layers there, how is it getting between the depths? Is it just one open strand layer?

MR. BRAYACK: For the most part, the aquifer through this area, has one large unconfined unit to a depth of about 700 feet below the ground surface.

MR. MCBRIDE: Oh.

MR. BRAYACK: Clay lenses are several feet thick. They are generally discontinuous, perhaps, a few acres in size. They slope at an angle. We were working with one clay lense here that sloped about thirty feet over 150 feet and then just ended. So there is no real confining unit until you hit the Raritan area, the depth of about 700 feet down. A lot of the deep monitoring wells are going to that depth. Okay.

MR. MANGANO: An average depth of the aquifer is what the water that's running through is.

MR. BRAYACK: The water starts at a depth of about 50 to 60 feet below the ground surface and then the water is continuous to about 700 feet until it hits this clay layer and the clay layer-- I will give you the exact dimensions-- is about 100

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2 foot thick and then there's another aquifer
3 underneath that and the aquifer underneath that is
4 not typically used just because of it's depth. A
5 lot of the contamination that we see here. You
6 could see the plume being pulled in this direction
7 here and that's because Northrop has a series of
8 production wells along their side. If these weren't
9 running you would see this contamination growing in
10 this direction here. So, it's really the operation
11 of the production wells and the recharge basins
12 which design ground water flow through this area.
13 Does that answer question?

14 MR. MCBRIDE: Yes, I didn't realize that.

15 MR. COLTER: Okay.

16 MS. SEIDEN: Could I ask you another question
17 about the water? It seems to me that I read in one
18 either the base line survey or one of those books
19 that most of Long Island draws their water from the
20 drinking water from the upper glacial aquifer but
21 not in Bethpage.

22 Now, is Bethpage the only area that doesn't?

23 MR. BRAYACK: No.

24 MR. SCHARF: No.

25 MS. SEIDEN: Because is that upper-glacial

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aquifer in Bethpage contaminated?

MR. BRAYACK: The upper glacial aquifer is variable thickness but it's generally within the upper 50 to 100 feet below the ground surface.

MR. MANGANO: Our drinking wells are about a thousand feet deep.

MR. BRAYACK: 500 to 700 feet. Over time the original drinking water wells throughout this area were in the two to three-hundred foot depth and, there is a problem with some wells with fertilizers, nitrates in particular plus just that it's an industrial area. And, over time the wells kept getting deeper and deeper.

MR. MANGANO: Nobody was able to correctly monitor the water all those years through all those levels, so maybe that's what this woman is trying to bring up.

MR. KELLY: The upper-glacial aquifer in Nassau County-- the public supplies always are deeper. It's been--

MS. SEIDEN: I am quoting what was in your book.

MR. KELLY: It hasn't been used since the beginning of the century, basically in most areas

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in Nassau.

MS. SEIDEN: Is it already contaminated? Is that why?

MR. KELLY: Mostly from cesspools, I would say, nitrates from septic systems. I think probably the major source of contamination in the upper glacial. It's been a long time and I would say none of the, way out east there are still some shallow wells that people have private well and irrigation wells, think like that but nobody here drinks the upper glacial.

MR. MCBRIDE: Where do we define that our water starts at about 50 feet down to about 500? Where does this upper glacial level define itself in there?

MR. BRAYACK: It's in about the upper 50 to 100 feet. It's not a realistic difference. As you are drilling down-- the geologist really, the hard-core geologists will look at it. You could identify one interval as one and the other as the second but--

MR. KELLY: It's a little courser. There's no, I mean it's basically just sand and gravels. It is just a little bit coarser up top.

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2 MR. SCHARF: As you move closer to the south,
3 sure you get gardeners clay, which is thick, and I
4 believe that defines the upper glacial aquifer
5 there. As you move north it's less. The definition
6 is softer in terms of where it separates but you
7 can go down a hundred feet and find changes in the
8 type of sand, the color. As you move to the North
9 Shore you are going to find large boulders from the
10 Adirondacks that were dropped there by glaciers
11 thousands of years ago. That's why if you go up to
12 the North Shore you see people doing excavation and
13 you have these big rocks. If you go further out
14 east, Stony Brook area. I was just there today.
15 And, it's interesting. There are a lot of books on
16 it if you want to read up on it.

17 MR. COLTER: At this point, I would like to
18 introduce Marlene Lindhardt from Foster Wheeler.
19 She is going to focus in on the Navy site on which,
20 at this point, if you recall my two earlier
21 presentations, I gave an overview of what the Navy
22 has been doing over the last ten years and we,
23 again, we went and did sampling at sites two and
24 three. We did soil excavations at two. The only
25 contaminant of concern there, Site 3. We found a

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2 lack of contamination with soils and our own real
3 source area problem was Site 1 as Dave pointed out.
4 We asked Marlene's group a couple of years ago and
5 we have a very complex soil problems in Site 1 with
6 PCBs, metals and volatile organics being the same
7 soil organics that Dave is seeing in the ground
8 water we are seeing in the soils and, hence, that
9 is the other source. We brought Marlene's group on
10 to try and address the V.O.C. portion with an
11 innovative technology known as extraction. And,
12 once we conclude that we will be able to address
13 the metals and PCB residuals, basically that would
14 close out our Site 1 source area.

15 MS. LINDHARDT: Let me just go through what we
16 have done. We have been out there since 1998. I
17 will give you a description of this. I am really
18 talking only about soil, not ground water here. But
19 I could go through a description of the system and
20 where we stand today. This is Site 1 which is on
21 that first handout that Dave handed out. You could
22 see it on-- it's about four acres. We were just
23 talking about soils mostly sand and gravel. We do
24 have some clay lenses out at the site. The water
25 table right now is 54 feet below ground surface.

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It fluctuates by about two feet in a given year. It was at 54 feet. The last time we were out there was the end of December. So that's pretty recent and the volatile organic contaminant that we are dealing with are tetrachloroethylene or PCE. tetrachloroethylene and TCA, and trichloroethylene, those are our major contaminants of concern. The purpose of the system was to resolve volatile organic compounds from the soil and the way it works is that we have a well on-site. We inject air into the soil which mobilizes the V.O.C.s and then we have an extraction well on-site which then captures the vapors and then treats that through the carbon system. This is the layout of the site. I don't know how well you can see this but these are the extraction wells. Basically, lined up there a little bit lighter gray here, here, here. They pretty much are on the borders of the site and then the air injection well in the blue so it really was designed around a radius of influence of what we expected to get by injecting the air over the entire site. This is the treatment building here which houses the equipment. The site and Plant 3 will be at the top of this screen. You have got 11

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air injection wells, thirteen vapor extraction wells, and 12 soil vapor measure monitors. Those are around the perimeter of the site and that's what we use to monitor whether we are capturing the vapors, making sure that what while we are doing this we are staying on the site. The extracted vapors then are treated through carbon inside the building. The air injection wells are about 50 to 55 feet deep and the air injection wells are extraction wells are 55 feet deep. The injection wells are 65 feet below ground surface and there is PVC. The vapor extraction wells are 60 feet below ground, again PVC. The system is shut down in the winter time because it's above ground. We don't have pipe out there so, if you saw the site it is all above ground. Vapor measure monitors, we have them deep and shallow so there's 12 but there's six clusters, two wells per monitor. This is a description of the treatment system inside the building. There is a 500 gallon moisture separator. There are two blowers, one injection well and one for the extraction well, same size. And we have 1800-pound activated carbon units. Vapors go through one carbon unit and then a second one. We

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2 monitor vapors so that we know when it's time to
3 change carbon. We don't have to worry. We have that
4 second one-- back up while we do our change up. The
5 system has an alarm and an auto dialer system. We
6 basically get paged if the system goes down and
7 these are the items that would page us: loss of
8 power, if we have no vacuum at an extract blower, if
9 we lose the extract blower itself, shut down or the
10 injection blower shut down. So, we are called and
11 we come to the site if there's a problem with the
12 system. It's all automatic. We basically
13 constructed the system in the Summer of 1998.
14 Dave's group did the bulk of the design. We did
15 some finetuning of it and we have been operating it
16 for the most part on 24 hours a day during the
17 season. It was operated from July of '98 to
18 December of '98 and we shut down for the winter and
19 came back up in March and we just shut down
20 actually, the last week of December. We had a nice
21 season this year. We were able to go a little bit
22 longer. Part of our operation maintenance, again,
23 we have the 24 auto-dialer which calls us to the
24 site if we need to come out but we do make regular
25 trips. We come out every week just for equipment

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2 maintenance, changing bits and filters and
3 upgrading whatever might need to be upgraded and
4 changing oil. We are sampling the vapor on a
5 bi-monthly basis and then we have a regular
6 environmental tap monitoring program: This is just
7 a figure that gives you an idea of removal of
8 volatile organics over time. This is pretty typical
9 in a system like this. When you first turn a system
10 on you will get a huge amount of volatiles and it
11 decreases over time so if we see some variations
12 they are mostly due to weather. This actually is
13 hurricane Floyd. We had some issues there with not
14 only all the rain which makes the system wet and
15 inefficient but we lost power for a while, AT&T and
16 we lost the auto-dialer for a while, I think. The
17 blue color is total V.O.C.s and then we have some
18 individual compounds that we monitor. The main one
19 we have been concerned with is PCE or TCE which is
20 the color over here. This is dated through actually
21 the 29th of December was that last data point.
22 Since we have been operating we removed over 400
23 pounds of V.O.C.s through this system. I should
24 mention that there was a pilot system before we
25 constructed this that almost removed about 900

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pounds so we have got a significant amount of removal. We are seeing a pretty significant decrease in the VOCs versus what was there on-site back in '96. We do have V.O.C.s in a few small areas. Basically, these three areas and we recently did a program in October of '99. And those were areas that we felt we had some V.O.C.s remaining. We have got issues here with clay lenses. We have significant clay lense here, which has made the system less efficient than we would like to see. And I think that's probably that problem that we have with that in that area. We are looking at a start-up some time in Spring as the weather breaks. We are going to make some adjustments to the system. Right now, it has been operating to address the entire four acre area pretty consistently. We can now narrow in on these three areas where we have V.O.C.s remaining so we are going to do some sampling, turn off the well that don't need to operate and that's going to be able to increase our air flow and our extraction in the three areas that we are concerned about. We will have people out there and we will be able to turn switchs and knobs and check the gauges and basically try and maximize

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2 our extraction from those three areas, operation
3 through the year two thousand and at that point we
4 can see where we stand as far as the effectiveness
5 of the system. That's basically what I have.

6 MS. SEIDEN: I have a question: I wonder in the
7 northern part of the Navy property there is a ditch
8 through a wooded area that is supposedly
9 contaminated. And, it runs along the top of the
10 property and seems to end at an area that is the
11 community park. And, it says that park was a former
12 landfill. I wondered if that area had been tested
13 at all and including that ditch.

14 MR. COLTER: That ditch was identified by the
15 Navy, in the Phase 2 environmental base-line survey
16 that hasn't been issued yet. We had Northrop go out
17 and test that ditch. I could tell you that the
18 tests all came back undetected so that the ditch
19 was tested and we didn't find contamination. We did
20 identify that as a potential area of concern. We
21 asked Grumman to go out and sample for us. We got
22 the results. The reason you don't have the results
23 is because we haven't published that document yet
24 but we did identify it in the Phase 1. That's how
25 you came about it and we did sample it and we are

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trying to get that report out to you to answer probably most of the questions you asked.

MS. SEIDEN: What contamination?

MR. COLTER: One report says This is the area of concern. That's all it says. The second one follows up with all the sampling and the results of that you have to work with both reports. We are working to get that second one out to you.

MS. SEIDEN: Does it describe the community park also?

MR. COLTER: Town Park, I am not too familiar with that. That is more of Grumman-owned land. Al, do you know how that's worked? Kay Field is Grumman-owned, but I don't know if that's what she is talking about.

MR. SCHARF: You are referring to Bethpage Community Park, to the north and to the east.

MS. SEIDEN: Right, at the end of the property, supposedly.

MR. COLTER: If you are talking about the park; the Navy back in '94 had a request from the community at one of our public meetings, to sample their residences because of the concern of PCBs on the Navy property. We went out in '94 and we did an

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2 extensive sampling of soil materials. They
3 volunteered their property and we basically did not
4 find PCBs in their property. We also sampled the
5 park and didn't find PCBs in the park and we
6 released all that data to the Health Department for
7 whatever they do with it back in '94 and we also
8 notified each individual resident that volunteered
9 the property.

10 MS. SEIDEN: What kind of landfill was it?

11 MR. COLTER: I have no idea.

12 MR. SCHARF: The first time I heard that--

13 MR. MANGANO: You are talking about Bethpage
14 Community Park donated by Grumman back in the 60's?

15 MS. SEIDEN: Yes.

16 MR. MANGANO: Actually, probably before I was
17 even born. But I heard it was a landfill prior to
18 them, you know, Grumman donating it to us. The only
19 update that I could give you is because McKay Field
20 is a piece of property that we are interested in
21 getting for the community. We have had extensive
22 testing done on it mostly by Grumman because they
23 own it. In doing that, and because there are some
24 contaminants around it, we had asked the Health
25 Department to request that the community partially

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2 be sampled and the Town agreed. I know that you got
3 back some of those results when it was sampled.

4 MR. KELLY: There were no PCBs found in the
5 community park which had done what the Navy had
6 done, as Jim said, but they did it again. I guess
7 more extensive sampling, and it didn't show any
8 PCBs in the community park at all.

9 MR. MCBRIDE: Were they looking for anything
10 else or just PCBs?

11 MR. KELLY: That was the only thing, PCBs, that
12 had come up with Northrop.

13 MR. MCBRIDE: Okay.

14 MR. COLTER: One more presentation that I would
15 like to give, basically, it's to give you all the
16 highlights of the technical subcommittee meeting
17 that we had with the regulators a couple of weeks
18 ago. And, after that, for those of you who want to
19 stay and ask questions I will remain here and try
20 to answer the questions or we could go on from
21 there. As I said a couple of weeks ago, in
22 February, we held a technical sub-committee meeting
23 with the regulators. They included the New York
24 State D.E.C., both in Albany and in Stony Brook.
25 The State Health Department as well as Northrop

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2 Grumman and the Navy. Marlene just gave you an
3 update on the Site 1 Air Sparging System.

4 Basically, that system was put in place a couple of
5 years ago in response to a record of decision that
6 the Navy signed with the D.E.C. to address soils at
7 it's source area. The second part of that, we call
8 that Operable Unit 1 for the Navy. The ground water
9 portion will be Operable Unit 2 and that's what the
10 D.E.C. is going to deal with. So, what we are
11 focusing on is the Navy's actions to clean up the
12 site and ultimately transfer it to Nassau County.
13 The ground water will be dealt with by the D.E.C.,
14 down the road, not too far down the road, though.
15 One of the issues that came up was Drywell 20-08
16 and 34-07. These are two points. If you could pop
17 the map up. These are 23 points identified by
18 Northrop Grumman and during the close-out effort.
19 The extensive sampling Judith mentioned before.
20 Most of us step back or the contractor steps back
21 and say, "You tell us what you you want us to do,
22 Navy." In this case Northrop Grumman went out and
23 did it on their own. We reviewed documents, and
24 made sure that we did our own assessment, put the
25 two together to make sure that neither company

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missed anything. What came out of the review was basically three areas: Drywell 20-08, I believe, is up in this area. 34-07 is to the south of Plant 3 and, the area of concern, 22, which is a location of a former underground storage was over in this area. Our discussions were with Northrop Grumman who basically said the Navy would take control of the former underground storage tank AOC-22 investigations, if Northrop would continue investigations of the two drywells. Taken to a point where they propose a remedy that satisfies the Navy and to the D.E.C., and then the Navy would pick up that remedy and implement it where we are at right now with Northrop Grumman's investigations is they have completed two rounds of sampling to date. The deliniation of the PCBs and those dry wells is not yet completed. We do have PCBs very deep. We are just not sure how far horizontally they go and that's the purpose of that investigation. The results of that investigation will be made part of a follow-up meeting. We will see if we can't get Northrop to give us a mini presentation on what they found. If not, we will try to summarize it and we will present it at a

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future meeting.

MR. MCBRIDE: Can I ask you, when we were back in November, when we took a look at these two facilities, they had just completed a round of samples.

MR. COLTER: Right.

MR. MCBRIDE: Can you give us at least a flavor of what they have come up with, any hint on those?

MR. COLTER: Yes. That's why we are doing a third round right now.

MR. MCBRIDE: What magnitude did they hit that?

MR. COLTER: I don't have numbers. I am kind of on the periphery of that. Northrop is dealing directly with the D.E.C.. But what I do know is down-gradient of the drywell. We have delineated the down-gradient horizontal extent. We have found some upgradient toward Plant 3 and that's where the concern is. It's very close to the loading dock. So, that's where we are at. We are trying to find out if it's underneath the dock or to what extent. But Northrop Grumman has to prepare a work plan to the State, and go out and actually sample.

MR. MCBRIDE: The depths are we still talking the 30-foot range?

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2 MR. SCHARF: I don't know if you were still
3 part of that conference call.

4 MR. MCBRIDE: I left just as we got into the
5 drywell.

6 MR. SCHARF: He said the results are in. You
7 have to get the data and he's putting a report
8 together. As Jim was saying they did find in the
9 one direction that still more PCBs toward the
10 building. If I remember correctly he said around 30
11 feet there were some high numbers down deep.

12 MR. MCBRIDE: Okay.

13 MR. SCHARF: Which warranted further
14 investigation.

15 MR. MCBRIDE: Do you have a time frame when
16 they think they will be coming through with that?

17 MR. SCHARF: About two months.

18 MR. COLTER: I don't know exactly; a couple of
19 more months to actually get the work plan which the
20 D.E.C. reviewed and out into the field another six
21 weeks to eight weeks.

22 MR. SCHARF: He first has to get a work plan
23 from the consultant and he has to get approval for
24 internal contact and get the driller out there,
25 take the sample, send to lab and turn around time

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2 and generally it is two to four weeks. And, then he
3 wanted to use that information and produce the
4 feasibility study which he was hoping would come
5 back which would tell us what they could do about
6 it. And he was hoping to get that back to us before
7 June of this year.

8 MR. MCBRIDE: We will be able to, as a RAB, see
9 that before it's an approval document or we even see
10 the approval document?

11 MR. SCHARF: The way it's working, the only
12 thing that gets approved right now are these work
13 plans to go out and they're submitted. You know,
14 they haven't submitted any final report for us to
15 review. And, generally, the way it works they will
16 submit the report to the Department and then we
17 will review that and then we will comment on it and
18 then finalize it to our satisfaction. Then it gets
19 released to the public, public review.

20 MR. COLTER: Bear in mind, again, they are the
21 lead on the investigation and if they so choose to
22 come to the RAB and make a presentation they can do
23 that. We are not under an obligation. They're not
24 under the obligation that we are. Once we pick up
25 for remediation they become part of the RAB. I will

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2 obviously keep you informed of the progress between
3 the D.E.C. and Grumman because we are ultimately
4 going to have to approve that remedy. We don't want
5 Northrop having a multi-zillion dollar treatment
6 system that they're not going to install and pay
7 for so the Navy has to request that report to make
8 sure it's reasonably have every reason to believe
9 it will be--

10 MR. MCBRIDE: It seems more and more the RAB is
11 peripheral. Well you will be informed but it really
12 doesn't form under the charter of the RAB.

13 MR. COLTER: Again, it is a unique situation
14 because efforts of, I believe, an entity. And, we
15 are in the home stretch. We have ground water where
16 we almost have a record of decision, to just
17 operate a treatment plant and get these cleaned up
18 and we are almost ready to dig soils on-site which,
19 is really our last site and we are kind of in the
20 home stretch in this facility and that also lot of
21 the decisions have already been made. Like I said,
22 Site 1 has already been implemented.

23 MR. MCBRIDE: It seems like the RAB really is
24 only involved in Site 1 then, in a RAB capacity.

25 MR. COLTER: Site 1 and drywells.

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MR. MCBRIDE: The Drywell you were saying?

MR. COLTER: I am hoping that Northrop will come and give a presentation but, I will keep you informed I am here. I am giving you the status of it.

MR. MCBRIDE: You have been very helpful with information. I'm wondering what the real official RAB purpose is going to be if everything is being pushed off.

MS. HARE: Maybe I could help a little bit. The Restoration Advisory Board is an opportunity for the Town to come together with the Government to receive information where they wouldn't have that forum if you may otherwise be able to do that other than when we publish other documents and give them to the public library, for instance, in the Repository. It's a way for us to communicate what's happening on that property because, obviously, the public is concerned about that property. I apologize for my back being turned here. It's for the public then to interact, in this case, with the Navy who is the property owner so we can hear, for instance, all of the comments that you have brought up tonight, the regulators can hear those

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2 comments. We can take all these things into
3 consideration. But, one thing we can't do is, is,
4 have Northrop Grumman join completely in to the
5 RAB. Now, they're not excluded from the RAB at all.
6 And I will tell you that in the State of Texas, I
7 have a RAB down there where the contractor does
8 participate in RAB. He comes to the RAB. He sits on
9 the RAB and participates. But, that's by choice. I
10 can't, in other words, mandate that they do that.
11 The relationship between the Navy and their
12 contractor is very clear. It's a contractual
13 relationship. And we have enjoyed some good things
14 here with Northrop in this instance with this
15 facility. In participating in the actual studies
16 and ultimately the clean-up that is going to come,
17 that's a definite plus here. So I would like to
18 convey to you how important that fact is because if
19 that had not happened the Navy would have the
20 entire burden for it's property alone. Resources
21 are short. We are fighting all these other
22 programs. Every time we have a flair up in the
23 Middle East, in Bosnia or wherever, guess what, a
24 big hole is created in the budget and all the other
25 programs in the budget will feel that, including

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2 the environmental money. So, the fact that they are
3 willing to do this I can't emphasize it enough that
4 it benefits not just the Navy, it benefits
5 everybody in this room. Now, we will try hard to
6 get them to come to the RAB and give a briefing--
7 and I don't know-- I would say we have a pretty
8 good chance that they would be willing to do that
9 essentially. I think they want all their ducks in a
10 row first, frankly, so they will have the right
11 answers, but, I think we have a good chance that
12 they will be willing to do that. But, there's
13 nothing I can do to mandate that, make that happen.
14 As far as our data is concerned, obviously, you
15 know, you have our data and you will continue to
16 have.

17 MR. MCBRIDE: It seems like some very good
18 things going on. I am just saying, from a committee
19 point of view. As decisions are made, this is
20 what's going to be presented.

21 MR. COLTER: Bear in mind that the RAB is where
22 the Navy's spends it's installation restoration
23 money and we are mandated by Congress to inform the
24 RAB wherever we spend the money. At this point we
25 are

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2 only spending money at Site 1.

3 MR. MCBRIDE: Yes.

4 MR. COLTER: And, so, that does show that it's
5 a very focused area at this point because again we
6 are in the home stretch.

7 MR. MANGANO: The bad news is we had a terrible
8 situation in Bethpage. We had a tremendous amount
9 of ground water contamination, ground
10 contamination. On top of that, the Navy left the
11 property so we were basically devastated in a
12 number of ways, both enviornmentally and
13 economically on their property. The good news is
14 this that at least Northrop has used it's money to
15 clean-up the property as opposed to many other
16 sites like this. It used to hire attorneys to fight
17 over what's going to do what. Would that be a fair
18 characterization?

19 MS. HARE: Very fair indeed.

20 MR. MANGANO: We would not have been cleaned up
21 as quickly or as far along if this remained a
22 governmental process of clean-up. So, that is why
23 the Navy has tried to work very closely with the
24 County, with the private contractor, to encourage
25 them to spend their money and get it cleaned up.

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MS. HARE: Yes.

MR. MANGANO: The RAB, I really do think is useful. There are volumes of information. I have been doing it for many years. It's just impossible to get all this information and understand, huge. The committee themselves at the beginning had 50 people in technical. So, all your input is important and I think that I found every party very reasonable in making adjustments if something is found. And I could tell you I think there's been hundreds of them that have changed thoughts when we have identified something, so that's an important thing if you find something or bring it up: The Navy is not saying, no. The Navy is saying we will listen, we will see if we can do it. But these are our parts.

MS. HARE: I think we are ready. You had a question?

MR. COLTER: If I could have 10 more minutes to finish up we could just go into questions and answers.

MS. HARE: Is that okay with you?

MS. SEIDEN: Perfectly okay.

MR. COLTER: What the Navy will be sending

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2 out-- and I actually have sent draft copies to our
3 regulators. I haven't sent them out to the RAB yet.
4 We finalized them at the last meetings, the draft
5 copies, and I wanted the regulators to have them in
6 hand for our technical meeting. But I will be
7 handing copies to each RAB member on the next
8 couple of areas that we are going to talk about.
9 Right adjacent to that former underground storage
10 tank site was an area of concern. We just labeled
11 it AOC 20, actual Northrop labeled that during
12 their investigations. Some of the data got wrapped
13 into an area of concern and that's actually how I
14 came about it and it had some detections of metals
15 such as zinc and magnesium and things like that in
16 exceedance of the State's clean-up standards but
17 really no recommendation by Northrop as to what to
18 do with that area. So, as our environmental
19 consultant as to AOC 22 we had him also go over
20 here adjacent to AOC 20 and take additional
21 sampling to further characterize this area. What it
22 turned out to be was a former drywell. We
23 encountered the gravel layer that kind of showed
24 the remnants of a drywell and it matches up with
25 old construction drawings of the property that it

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2 was a drywell. Again, metals were detected in the
3 initial Northrop operation. We took that
4 investigation a little bit further, surrounded that
5 boring to see what the extent of contamination
6 might be. And, we actually removed and sampled the
7 Northrop area and basically commented, re-created
8 the detection of metals and what happened over
9 time. You actually get lucky when you actually
10 scoop the soil and take a sample that you have
11 actually hit the contamination and it's no longer
12 there because it's at the end and that does happen
13 sometimes. It's pot luck. But we did sample around
14 in it, down-gradient, up-gradient; and we basically
15 could not find detection of metals and recommended
16 that, you know, this site is not an environmental
17 concern. That report has gone to the regulators
18 and, again, I will send it out to the RAB for a
19 review of what our draft recommendations are going
20 to be and keep you informed as to the next, you
21 know, what the D.E.C.'S response to that draft
22 report is. AOC 22 again, this is a former
23 underground storage tank just south of Plant 3.
24 Again, Northrop identified this area in their Phase
25 2 site assessment investigations. What they found

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were high levels of total petroleum hydrocarbons. We call them TPH and they are an indicator of free product and petroleum. They found it on the water table at pretty good levels and their thought was they might have a free product layer on the water table which is about 50 to 60 feet below ground surface. We agreed to take on that investigation. What we ended up finding, and, again, this is a report that is at the regulators. I will send a draft to each RAB member. But this is what we talked about at the technical meetings. What we found was pretty much minor soil contamination down to a depth of 20 feet. What we found were polyaromatic hydrocarbons, PAHs. And you will find them along any highway because they're byproducts of asphalt, tire rubber, things like that. Where we first started finding the petroleum contamination it was at a depth of 20 feet. Where these tanks were underground on a concrete slab so, obviously, they must have leaked at some point and started from the slab on down. So that's why the soils were relatively clean from the surface down to where this slab occurred. Right below the slab again, down to the water table, is where we found most of

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our petroleum contaminated soils. We went out horizontally to try and get extent or handle on the extent of the contamination. And, basically, what we found was soils located roughly 10 to 40 feet away from the location. It pretty much did not show any contamination until you got down to the water table. We then went further out to see the extent of that deep contamination and at about a point of about 60 feet radially away from this area we found no contamination in the soils or on the water table. What our recommendation is, the New York State D.E.C. clean-up guidance for soils of petroleum indicates that you have to have contamination with volatile organics and semi-volatiles to trigger a clean-up action. Just having petroleum soils doesn't necessarily trigger a clean-up action and that's called their Stars memorandum. That's what guides not only the Federal Government but private industry in their clean-up of petroleum impacted soils. Because we found a lack of volatile organics and semi-volatiles in exceedance of those guidance values, we have recommended that there is no criteria to clean-up those soils as defined by the D.E.C..

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At this point, that is basically the Navy's recommendation. And, that past part of our technical meeting and the D.E.C. has yet to rule on that determination. Once their comments come back, and we respond to them, that will also be made part of the RAB discussion before we finalize our document. We then said, well, is there a pre-product layer on the water table? And, our consultant did several different tests to try to identify a thickness of free products and the maximum thickness that they identified was, as it says up here 0.2 feet. There is no free product that you might think if you put oil and water together and you see how it separates. We don't have that or we did not identify that on the water table beneath the tank. We did find, since we did take ground water samples, as part of any investigation, we always take ground water samples. We did find benzene, toluene, ethylbenzene and xylenes which were not uncommon as those are components of fuel and oils and because this was a petroleum spill we did find that the BTEX compounds in the ground water. We also found chlorinated solvent that we have identified at Site 1. We have

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2 also identified it to be coming from Plant 3 as
3 somebody said earlier we did-- Northrop did a
4 source removal action inside Plant 3 to address
5 what we found. But, again, since these are ground
6 water issues, and our ground water treatment system
7 is in place down-gradient, we are recommending
8 again no action because the treatment system for
9 ground water is already in place and being handled
10 by the operable Unit 2 discussion by the D.E.C..

11 The other items that we talked about the
12 technical meeting was first two environmental base
13 line survey. Again, as a history, Northrop Grumman
14 did their own Phase 1 and Phase 2. The Navy's did
15 it's independent Phase 1 survey to verify that
16 Grumman didn't miss anything. We then took all of
17 Grumman's information and tried to summarize it
18 into a Phase 2 document. Again, this document is in
19 the hands of the regulators for review and we are
20 now getting the comments to address. Once we have
21 adequately addressed them we will put that out in
22 the library in public depository for everyone's
23 review. That should be out in a couple of months.
24 We have some comments from the D.E.C.. Basically,
25 their comments are, they're looking for some

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2 information and the information is available in
3 Northrop Grumman reports and there's that problem
4 again with Northrop Grumman being, I believe, the
5 entity. They dealt with the local New York State
6 D.E.C. folks, here in Stony Brook but, I deal with
7 the Albany folks, of the D.E.C. who weren't
8 involved in that portion of the closure. They have
9 some questions. We are going to try and point them
10 in the right direction and answer their questions
11 so we make sure everybody is on the same page here.
12 That will probably take another month or two to
13 actually finalize. Once we do it again I will get
14 the documents out. So about another month or two
15 for the Phase 2 EBS.

16 Real quick, on ground water. I know we
17 discussed it a little bit. The Navy's portion of
18 this effort at this point, Northrop Grumman
19 installed the treatment plant and those four or
20 three containment wells that you saw earlier. What
21 the Navy agreed to do is to install the monitoring
22 well in the community down-gradient. That would
23 have to be in place so that we can monitor the
24 effectiveness of the system for honestly decades to
25 see how well the system is operating. It's a series

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of 20 wells. Some of them are actually down 500 feet. They will take several weeks to install. At that point, once we are done installing our monitoring wells we will turn the sampling over to Northrop Grumman since they have to model all this sampling data. It gets wrapped into a computer-generated model and we make predictions and all kinds of different magic happens. So the Navy's portion of this will be to install the well. We actually have a driller under contract and the money is in place and we plan on being out starting to drill this April as soon as the weather breaks. We have to work with-- we are putting a well on Northrop Grumman property. They have already given us access to the property. We also have install wells in the local community. We are doing that within the area between the sidewalk and the curb which is owned by individual towns. It's their Township right-of-way on the roads. So we are working with the Town of Oyster Bay and the Town of Hempstead right now to get an agreement that we could put these wells in. This long-term well and that we, that they guarantee us access to these wells indefinitely so that Northrop Grumman could

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2 come in and sample them whether quarterly,
3 semi-annually or annually. That hasn't been decided
4 but we need to make sure that Northrop Grumman has
5 access to these wells for as long as they need to
6 to do this monitoring.

7 MR. MANGANO: Visually, what does that well
8 look like?

9 MR. TRINGALI: The surface.

10 MR. COLTER: Six-inch flush mount. Well, it
11 will say monitoring well stamped into the metal and
12 there are several out-- Northrop has put several
13 in. As Dave indicated we put a couple of clusters
14 into the east. All of them are six inch metal tap
15 and is all going to be left.

16 MR. KELLY: Like a water valve in front of a
17 hydrant. You wouldn't even know it's there.

18 MR. COLTER: Right now, the schedule as we see
19 it with the D.E.C., as Steve indicated earlier,
20 he's trying to get a preferred remedial action plan
21 out sometime in April and have a public meeting and
22 get the record of decision, that it's being
23 outlining our actions sometime in May. To be honest
24 with you, the actions right now will be to put a
25 pump treatment system in that's already in, do long

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2 term monitoring. We are going to put the well in in
3 about a month and so most of our actions in this
4 record of decisions are already done. There may be
5 a couple of additional actions but those are the
6 things that the D.E.C. is not yet ready to release
7 because we are still discussing the relativity of
8 those actions. And, as I said before, Steve will
9 brief you or the crowd at large or this RAB and
10 that will be up to them. But, that was highlights
11 of our technical meetings. We have them every
12 quarter before we have a RAB because we like to try
13 and make some decisions and that's all I have.

14 MR. MANGANO: On the ground water, the actual
15 treatment system that's in place, that's pretty
16 much what's going to be the final treatment system.

17 MR. COLTER: That's what it looks like that
18 happened that Dave showed you with the particle
19 traction. It shows that all the ground water from
20 Grumman's property and the Navy's property no
21 longer goes off-site, unless it's getting treated
22 and then discharged into the basin.

23 MR. MANGANO: I went to the presentation and
24 showed that it was pulling actually not only
25 keeping water on-site but pulling ground water on

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to the site and treating it.

MR. COLTER: It's a radius of influence. Can you pop that map up real quick. I think what you were saying about pulling the contamination in an instance of ground water in the western portion of the property which is actual off of Grumman's property. The model was calculated based on the pumping rate of this well that at this partner's extent here. Ground water would be captured and pulled in. Down here some of this off-site down-gradient ground water is able to be captured and pulled in.

MR. MANGANO: Thanks. If you want to turn the lights on that's all for the presentations. We could entertain some questions. I know there's a couple people that have some.

MR. COLTER: Betty Seiden.

MS. SEIDEN: I just have two questions and two points that I would like to talk about. I read the minutes of your last meeting and I do believe that in there it was mentioned that there were monies to pay for and advisory for the RAB committee.

MR. COLTER: Yes.

MS. SEIDEN: Instead of the Navy advising them,

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2 which to me looks like a terrible conflict of
3 interest but, you know, for you to be the advisor
4 or the Navy to be the advisor.

5 MR. COLTER: We are at this point sharing
6 information.

7 MS. SEIDEN: Right, but that has been
8 considered.

9 MR. COLTER: That is up to the RAB. That is
10 called technical assistance for public
11 participation.

12 MS. HARE: Can I talk a little bit about that,
13 so we don't mislead people?

14 MR. COLTER: I have already given that at a
15 presentation that I normally give to RABs to let
16 them know that availability is there if they so
17 choose to take advantage of it but Judith will.

18 MS. HARE: There are problems with that,
19 though. The Government does have some money set
20 aside to provide some other assistance, outside
21 assistance. However, those monies can only be
22 authorized if, for instance, the Navy, which is the
23 principal and the owner here of the property, does
24 not have the capability to provide this to you.
25 Now, in this instance, as it is true with our other

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1 facilities, we do have that capability. We have it
2 in abundance as a matter of fact. We have a private
3 contractor on board, more than one, actually. And,
4 so, the capability is there so if, for instance,
5 the RAB made an application to do this, the first
6 thing that they would look at is the fact that the
7 Northern Division is fully engaged in the clean-up
8 of this property. And, in the participation of the
9 Restoration Advisory Board, to pass on the
10 information to you. And in that instance, Jim, tell
11 me if I am wrong here, but, I don't know of one
12 instance where money has been supplied under those
13 circumstances, where the Navy has full capability
14 of doing that and there is a reason for that. That
15 would be like the Government having to spend
16 money-wise to give information to the community and
17 to the RAB which, obviously, from a standpoint of a
18 taxpayer doesn't make any sense at all.

19
20 MS. SEIDEN: Except, of course, the Navy is the
21 pollutee. And we are the pollutee or whatever you
22 want to call it.

23 MR. COLTER: Remember your local Health
24 Department. Your regulatory agencies are overseeing
25 us, very vigorously and they're working for you,

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not us.

MS. HARE: Absolutely. This is not a set of circumstances where the Navy can do whatever they want to in regard to the clean-up of this property and then skip town. And, oh, by the way, we have left a whole lot of stuff that we didn't do every step of the way and this goes all the way back to the beginning of this Installation Restoration program. And we are talking about several years back. The State has been involved in our actions here. And, we can even proceed so far and then we have to stop, the State has to review what we do. If they don't like our approach, if they don't approve of our approach, they tell us that and we have to change before we can move ahead and do anything further.

MS. SEIDEN: That's not entirely true because you have all kinds of outs, as I read the baseline survey and the books that you have passed out. You can defer a clean-up. The Governor has given the Navy all kinds of outs if they want to take them.

MS. HARE: We don't have any determinations from the Governor. There is no Governor's determination here with this facility and we will

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see it through to it's final conclusion.

MS. SEIDEN: But you can take them if you need them.

MS. HARE: No.

MS. SEIDEN: That I don't know.

MR. COLTER: It's an option.

MS. HARE: Even if the Government agrees to that.

MR. COLTER: Remember that document wa read. The Phase 1 was written in 1998. A lot of actions and discussions with the County have happened since then where they have opted not to take the Navy's Governor's referral option as one way to transfer the property. So, we may be retaining the property that I have described here, Site 1, and the drywell. We will retain that under Navy ownership even though we transfer the rest of property to the County. We will maintain ownership of that land until we get to note that the State says it's suitable to transfer that to the County.

MS. HARE: I can assure you the Navy has spent a great deal of money up to that point in it's studies and in getting to the final conclusion of the clean-up of this property. And, unless we can

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2 satisfy all the concerns of the regulators we are
3 not done and we will be held accountable for that.

4 MS. SEIDEN: Based on the history of the Navy,
5 as far as clean-up is concerned, it's been there
6 for years and years and you are now cleaning it up
7 because you want to get rid of it.

8 MS. HARE: We started acknowledging before that
9 there are standards that have to be followed. As to
10 the Enviornmental Quality Review Act, it has to be
11 maintained.

12 MR. MANGANO: You are right in a lot of stuff
13 that you will read and you will find and it
14 definitely appears that there are outs and
15 definitely paths that were going to be taken that
16 would have definitely not made myself comfortable.
17 We objected to the Governor's determination which
18 we felt would not protect us as well as if we kept
19 the Navy on this path. And, I think that you will
20 agree that the method that we are taking here
21 differs a lot from other models that you have done.
22 In fact, by keeping the property until it's cleaned
23 up. It's not something that you normally do.

24 MR. COLTER: We do that more often than the
25 Governor referral.

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2 MS. HARE: Let me explain a little bit about
3 the Governor deferral issue. I only know of one
4 place in the entire United States, one place. And
5 it wasn't even a Navy facility that I know of,
6 where a Governor's deferral actually took place. You
7 could see how popular a Governor's deferral is.

8 MR. MANGANO: But, you will find that was one
9 of the avenues that the Navy wanted to go on
10 because we argue about it for months for our
11 purpose. Judith has stated it correctly, is that
12 they are not going for a Governor's deferral but you
13 may find it in the record. If you are reading back
14 in the records--

15 MR. COLTER: All that is an option that the
16 D.O.D, has come up with to give the Town control
17 over the entire property to bring a developer in
18 mind while the Navy continues to clean-up. No is
19 definitely a bad word because defer does mean
20 delay. It means that we continue to do our clean-up
21 as we have here for ten years, investigation and
22 clean-up, but the Town could come in and authorize
23 the entire property. Now, since they have denied
24 that, that avenue, we will retain that portion of
25 land under Navy ownership. We do control how that

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2 property is used and, not that it will happen, but,
3 it butts up against a lot of entrances of Plant 3.
4 If the Navy so chooses to say you can't trespass
5 we are within our rights to do that. The Navy will
6 not do that, however, but that's the difference
7 between retaining property and giving it over with
8 contamination under a Governor deferral. That's the
9 difference. It's not an avenue for the Navy to get
10 out of by any means whatsoever.

11 MS. HARE: We can't. We are the owner of this
12 property and I can assure you that the EPA and the
13 State regulators in any state where I have these
14 properties, and I am doing clean-ups, holds us
15 accountable. There is just no question about it. It
16 has to be done. Furthermore, the Navy is holding us
17 accountable, myself, and Jim--are holding us
18 accountable to get this job accomplished.

19 MR. COLTER: And, I sense a little mistrust and
20 that's to be expected and it comes with any
21 territory. Hopefully, as you come to these RABs, we
22 can alleviate that mistrust out of whatever reason.

23 MS. HARE: Make you file--

24 MS. SEIDEN: I think these neighborhoods are
25 racked with cancer and you can't put carcinogens in

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the land, in the air, and in the water and then wonder where all the cancer is coming from.

MS. HARE: I will tell you I am not a toxicologist. I cannot address why, you know, there are folks, in various neighborhoods that have cancer. There are folks, in the neighborhood, where I live that have cancer. I wouldn't even begin to address that. What I can tell you is there were a lot of things that were done throughout this country back thirty years ago, forty years ago, fifty years ago, we didn't even have all the environmental laws on the books back then that we have today so people did a lot of things that weren't good for the environment. Obviously, that all catches up with you sooner or later. We are under the gun now to comply with the law. We have to comply with the law. I can't transfer a deed from one thing-- I would never get rid of this property if I didn't clean it up and I am under the gun to transfer the deed on this property. I have been mandated by Congress to get rid of the government-owned contractor-operated facilities. They are no longer necessary for the military to retain ownership. I have to do that as

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2 expiditiously as I can possibly do it, but the
3 State will not let me do that until such time as
4 the property is clean in accordance with the law.
5 So, I am pushing this guy all the time and his
6 contractors to let's get this done, let's get it
7 done right, the first time. I don't want to hear
8 anything about, well, we have to go back and do
9 this over again. Because that doesn't help me in my
10 efforts to turn this property over to the community
11 which, oh, by the way, has been pretty devistated
12 by the fact that Northrop Grumman and Grumman
13 Aerospace, prior to that, has downsized and is a
14 shell of what it used to be here. And, all those
15 jobs have gone away because once the property is
16 clean, and in the hands, by deed, with the
17 community, then you can begin to start the recovery
18 process.

19 MS. SEIDEN: Except that you label it
20 commercial industrial and that is not clean-up to
21 protect our ground water in the aquifer and our
22 drinking water. It just doesn't. There are two sets
23 of rules and regulations on clean-ups. One is based
24 on health and the other is based on your protecting
25 the ground water and the ground water protection

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one is much more stringent than the one that is going to protect the peoples' health.

MR. COLTER: Ground water clean-up is not governed by industrial or residential number. It's governed by the maximum contamination level MCL, drinking water standards. The ground water will be, you know, addressed and is being addressed to the M.C.L.s. It will take several decades to reach that goal but ground water is not based on an industrial or residential number that is strickly a soils number.

MS. SEIDEN: Even your soils, whatever you leave there is going to wind up in the ground water anyway.

MR. COLTER: That's a whole other presentation that I gave when people were at a site for about what we are leaving on the property. We can do this again but you will be surprised what we are not leaving. There is not much left other than Site 1 and these dry wells. Northrop Grumman has basically found they identified 250 areas of concern where they had soil contamination above the State clean-up standard. They went in and excavated over 250 sites. Some of them are pretty monstrous

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2 areas. There is no contamination as you may think.
3 And, if you want to come and sit down with you I
4 will try and go over the data and give you a site
5 tour like we did in early December of the rest of
6 the RAB. I will be glad to do it to alleviate your
7 concern but there has been a lot of work done and
8 it's, unfortunately, that most of that work is not
9 shared because, again, Northrop Grumman doesn't
10 have the same mandate for public community outreach
11 as the Federal Government does but, beware that
12 your state regulators are not letting them leave
13 anything that could be considered a hazard to human
14 health. That's just not there. This job is not to
15 do that.

16 MS. HARE: I will tell you, I have been in
17 several states as I mentioned before, and New York
18 is one of the toughest states from a regulatory
19 standpoint. The only other tough one that I have to
20 deal with is the State of Texas. We are not going
21 to get by anything here in the State of New York.
22 We are going to have to clean it up to the letter
23 of the law and these regulators are going to make
24 sure that we do.

25 MR. MCBRIDE: As a resident, I was quite amazed

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2 at what Jim was saying about some of the stuff we
3 have seen cleaned up that they have done. I am
4 not-- From the things that I have seen, it seems
5 like it's been very progressive and I have a high
6 degree of confidence and a lot of respect with our
7 State D.E.C.. And, that's really where my faith is.
8 In fact, that the D.E.C. is keeping an eye on this.
9 The things that we have seen have been really quite
10 amazing so far.

11 MR. COLTER: I will tell you one thing: I was
12 ready as I told you on the telephone to send that
13 Phase 2 report out. A couple of weeks ago, and
14 because the D.E.C. sent us over 80 comments asking
15 questions, clarifications. That's why I haven't
16 sent the report out. We have to address their
17 questions. And, they're not saying we didn't do
18 anything. They're just saying "Now I have a
19 question; can you please show me the answer?" So
20 until we give them the warm and fuzzies, I can't
21 release that report. That's why it's been delayed
22 because of the D.E.C., your regulator.

23 MS. HARE: Are there questions? We have
24 anything else?

25 MR. MCBRIDE: I would like to look at when we

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are going to schedule our next meetings. We are talking about April release date. Why don't we look at a date in April suggesting a meeting.

MS. HARE: We are looking at about the middle of May.

MR. SCHARF: Right, I am going to estimate May. If it comes up shorter maybe we could do it in April.

MR. MCBRIDE: We will leave it flexible.

MS. HARE: You and I can talk back and forth and I promise we many communicate by mail on something.

MR. MCBRIDE: Between us, maybe we can get in contact with each other.

MS. HARE: Jim can remind me.

MR. MCBRIDE: Anybody else from the community have any other concerns to be addressed for our next meeting that come up if there's any topics. What we selected for tonight really came out of our last meeting and discussions after our field walk. But, whatever, we have or any concerns, I would like to present it to the Navy for them to come back to us.

MS. HARE: If you think of a topic, you may not

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2 think of one right at this moment but you think of
3 it two days later or something, if you will contact
4 Jim, give him a call and I promise I will get back
5 to people on my voice mail. Then we will definitely
6 coordinate that and try to get that on the agenda.

7 MR. MCBRIDE: It seems as--

8 INTERESTED OBSERVER: How is the Hooker
9 Remediation affecting the clean-up here in
10 Bethpage? Is there any--

11 MS. HARE: I can't speak to that. I don't know
12 that the Navy can speak to that.

13 MR. SCHARF: We just had a conference call with
14 the EPA on the Hooker site and concurrent with the
15 OCEA, ground water remedy, we are looking at the
16 feasibility with Northrop Grumman. And, we are also
17 looking at that operable Unit 3 ground water remedy
18 for the Hooker Ruco site. And, that was started
19 about a year ago because originally, as I think I
20 said earlier, there was a combined regional ground
21 water feasibility study between Hooker Ruco, being
22 the Navy, and Grumman. But, we could never concur
23 on. There was a whole series of reasons that we
24 couldn't bring it together and so we split that
25 off. EPA then pursued a separate feasibility study

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2 with Hooker, and that's about to be released. I am
3 reviewing that also. That's in final draft. I have
4 got to get my comment letter to EPA on that,
5 probably within the week. And they're hoping to
6 have a meeting right after our meetings. And one of
7 the things that I can say is that the I.R.M. that
8 Northrop has installed is down-gradient of the
9 Hooker site. And all of the remedies that are being
10 screened in the Hooker documents use that as part
11 of their remedy. And, so, there are things we are
12 working out on a technical and legal basis to be
13 able to present that to the public. But that's
14 still in the draft phase right now. So, it works
15 out the same in the end, but it works out better to
16 have them as separate entities.

17 The New York State EPA made a decision way
18 before I was working on the project that the
19 Northrop group and the Navy facilities would not be
20 nominated to the National Priority List. New York
21 State has what's called a Class 2 list, waste site
22 list, or registry and comparable to that EPA is the
23 National Priority List. And, that's the best I can
24 tell you. I don't know the reasons why. I just know
25 that a decision was made way before I worked on the

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project.

MS. SEIDEN: What's the difference?

MR. SCHARF: The State modeled it after EPA. We can't do something outside the realm of EPA because we are required under CERCLA. Our laws must meet all the Federal mandates and so the State, when they promulgate regulation, they generally look at the EPA regulation as guidance in drafting the State.

MS. SEIDEN: It is the State that recommends the site to EPA?

MR. SCHARF: That's correct. No site in any state can be on the list without a recommendation from the Governor. In New York State the Commissioner of the D.E.C. is delegated by the Governor to nominate those sites.

MS. SEIDEN: What determines what sites they're going to move on and what sites they're going to keep?

MR. SCHARF: There's a whole series of facts it is dependent on, being the State and the priority. And, even if a site gets recommended to the EPA to be an NPL, that doesn't necessarily mean it will make the NPL. They have to do what's called a site

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assessment or HRS hazardous ranking score. And, generally, they look at the site, the preliminary data on the ground water, off-site receptors.

MS. SEIDEN: They used to publicize that but--

MR. SCHARF: It's in the National Federal Registration Center. It's just maybe something they don't have as many places. I am willing to wager that you can probably look up on line at EPA now and they probably have a WEB site which will list all of the sites that are on the NPL, the information.

MS. SEIDEN: The State publishes a bulletin.

MR. SCHARF: That's correct and also there are volumes--

MS. SEIDEN: They don't put the hazardous ranking?

MR. SCHARF: No, they don't but--

MS. SEIDEN: They used to.

MR. SCHARF: Maybe.

MS. SEIDEN: They did.

MR. SCHARF: That I couldn't tell you.

MS. HARE: If there are no other questions, Mr. Mangano is already-- I have delayed him for another meeting or whatever he has to get to and he's the

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one that has the key and has to close this place
up.

* * *

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Official Reporter/Notary Public