1	Bethpage RAB - 4/14/04 - First Iteration	
2	CO-CHAIR KAMINSKI: My name is Joe	
3	Kaminski, soon not to be owner of this property. I	
4	have been saying this six seven eight fine ten	
5	years. Welcome to this edition of the Bethpage RAB.	0
6	We have been trying special legs to	legislation
7	give this property, we naval air Systems Command,	
8	the current owners to the Nassau County for number	
9	of years now. In deference to Nassau County, we	(max
10	have only just gotten to point where knows of the	(FIL
11	hundred five acres, hundred six of them, have been	
12	declared clean enough to give to them without any	
13	kind of caveats.	
14	So we have just begun the discussion	Dagian 1
15	of actually turning that property over. We turned	Region 1
16	over other property that was cleaned about a year	
L7	and a half ago when we started on this trek	
18	96 with Northrop Grumman closed the place in 90	logicladaiga
L9	eight you think the special (legs came about, more or	-legislation
20	less?	
21	What see happened to me, is that they	
22	think don't' tea they are taking my money away, my budget	
23	away, there is no money for me to keep this place	
24	open any longer. For the first couple of years we	
:5	held it in the hopes of county would take it aver	

FREELANCE LONG ISLAND, INC.

COURT REPORTERS

Mark-up by Kelly Carper of Tt NUS 9-9-04 Kelly Carper

Bethpage RAB - 4/14/04 - First Iteration

we kept it full up running, it cost a couple million

dollars a year to keep it open, to keep it running

to keep it warm and in all respects that money ran

out and has been sitting cold for a couple of years.

It is a shame because the money was spent keeping it

warm is like lost. So we are still hoping county is

going to take it real soon and turn it into

something worthwhile.



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How far even if the county doesn't take it, I may be with you a whole not longer because the Navy has made a change within the Navy there advertise only except for places like this, like government-owned facility, there is only one Navy command that owns property. I worked at the naval air station Patuxent River, my headquarters it is there big old build, Naval Air doesn't want that air station fair or that building anymore. There is a new command called commander naval installation, who owns all Navy property, all buildings all real estate. Except a few of these GOCO. We are in a dialogue with command air naval installation if the count is not going to take this property, I'm not going to be involved. Because the chief of naval operations has said that my command, naval air

1	Bethpage RAB - $4/14/04$ - First Iteration
2	Systems Command buys airplanes and this other guy
3	that runs property. We don't run property, in fact
4	all my office which used to be forty people is down
5	to less than 10. We don't deal in property or
6	facilities any longer. That will happen not
7	withstanding what happens with the county. We have
8	told the people that would cause this people to
9	occur to leave it alone for now if, we have been it
10	a long time if, we have good relationships going on,
11	let us see if we can finish this transfer or post of
12	that transfer before that change occurs but it is in
13	the offing, within six to eight months. No matter
L <b>4</b>	what happens. So we hope we can influence your
L5	legislators or your count executives to get on with
L6	the transfer. Fold be in your best interest to own
L7	this property and let the gave I get out of here an
18	let the be developed to something useful for you,
.9	get it back on the tax rolls and stuff like with
20	that, we'll go into the regular type things.
1	That was your welcome. Agenda,
2	you've all read the agenda. Beyond to reread it for
3	you.
4	There was some problems with the
5	minutes. Was that corrected is everybody obay with

1	Bethpage RAB - 4/14/04 - First Iteration
2	the minutes now.
3	A MAN: It was just a little odd.
4	They're always odd.
5	CO-CHAIR KAMINSKI: The minutes went
6	out with classic copy with only half of them and
7	they got redone there was a point in time that we
8	were going to send the transcripts. Did we decide to
9	do that.
10	MR. BRAYACK: For Bethpage we send
11	the full transcript without the minutes.
12	CO-CHAIR KAMINSKI: You got the full
13	transcript except the problem with every other page
14	was missing I read it and said I can't follow this
15	at all I called Ed's office and said straighten them
16	out.
17	CO-CHAIR KAMINSKI: Which is hopefully
18	Bernie have.
19	I have five of these places all of
20	which are coming to a conclusion right now and I
21	cannot spend my time as much as I used to, on each
22	one. So I have not been even been able to look in
23	detail at the minutes or agenda today. As soon as I
24	stop talking I'll turn it over to Jim and that Jim
25 ·	and be quiet for the rest of the evening.

1	Bethpage RAB - 4/14/04 - First Iteration
2	My effort has been with Shelby Cohen
3	and county attorney and county real estate and
4	outside counsel to try to figure out what's going to
5	happen here. While I've entrusted Jim Colter and
6	his command to take care of the balance of the
7	environmental issues.
8	For your information, while I'm going
9	through that, naval air Systems Command current
10	owner but maybe not for much longer, if it goes to
11	count then that's fine but it has to get transferred
12	to naval air installations. Jim works for another,
13	Naval Engineering Command, by the sectary of the
14	Navy and chief of naval operation, to do cleanup for
15	the Navy. Jim is like internal Navy consultant that
16	cleans they do other neat stuff, real estate
17	agent, reduction consider agent but also cleanup
18	agent for all of the Navy, this area is the
19	northeast.
20	A WOMAN: Two quick questions on that.
21	Will Jim Colter stay with this project regardless of
22	who owns the project.
23	CO-CHAIR KAMINSKI: They deal with
24	budget and money and everything regarding the
25	cleanup. Yeah.

1	Bethpage RAB - 4/14/04 - First Iteration	
2	A WOMAN: The eight acres that will	
3	remain as the Navy property, that will be	
4	transferred regardless.	
5	CO-CHAIR KAMINSKI: That would	
6	probably go to this commander naval installations	
7	unless we can work real transfer, state New York	
8	interested in early transfer. Would you like to set	
9	that meeting up for me, like to talk about early	
10	transfer give this place to them, otherwise we don't	٠,
11	have to cut this funny piece of property out and	
12	have let the county.	
13	A WOMAN: First you have to complete	
14	the OU1 remedy out.	
15	CO-CHAIR KAMINSKI: Just kidding.	
16	MR. COLTER: You can transfer without	
17	the remedy in place.	
18 .	CO-CHAIR KAMINSKI: One of the places	
19	that used to have government owner contractor	
20	operated facility in Toledo, operated by Teledyne,	legislation
21	special legs like here to give it to the Port of	, 30 × 100
22	Toledo, it had contaminated by the Port of Toledo,	
23	government of Ohio were willing to take it. Before	
24	cleanup. They deeded the entire facility to the	
25	Port of Toledo, and Teledyne remained as the tenant	

1	Bethpage RAB - 4/14/04 - First Iteration
2	Colleague of Jim out of Charleston. Is working on
3	it doing stuff with local college, it turned into a
4	nice operation while the Navy is still doing the
5	cleanup. That concept was rejected here a few years
6	ago when we tried it in New York and Nassau County
7	wasn't interested. That's too bad because they
8	could have had it.
9	Jim does the cleanup and will
LO	continue to do the cleanup. That's what we are here
11	for, the RAB advisory board, on how, and the
L2	consequence of that, cleanup operations go, up
L3	outreach to the community and let you know how the
L4	cleanup is going.
L5	We'll answer the questions you had
16	before and bring you up to date on what's going on
L7	now. Jim.
18	MR. COLTER: Thanks, Joe.
19	Before we get started I have
20	administrative things I'd like to go over.
21	At the last RAB meeting we had a
22	couple of questions from some of the members on the
23	one question was could we have like a re-cap of the
24	groundwater issue and how did we get to where we are
25	at today. Its not shown on the agenda, but Steve

1	Bethpage RAB - 4/14/04 - First Iteration
2	Scharf from New York State DEC is here and he'll
3	give a brief recap how we got to where we are. The
4	second question that came up was with regards to how
5	effective are the water supply treatment systems
6	especially where there is a potential for a power
7	outage and some other type of scenarios. John
8.	Molloy monthly from the Bethpage Water District is here and
9	he'll give a little overview how the treatment
10	systems operate and some of their secondary
11	redundancies in those scenarios do pop-up.
12	Another item that is not on the
13	agenda is the update of the review of our dry well
14	reports by your third party consultant, which is
15	H2M. Gary Miller and Paul Lageraaen are here and
16	will give us a brief update where they are on that.
17	Jim, did you get an invite to this
18	year's RAB forum.
19	CO-CHAIR McBRIDE: No.
20	MR. COLTER: No.
21	CO-CHAIR McBRIDE: My schedule has
22	been crazy for the past month, it may have made it
23	in and I haven't.
24	MR. COLTER: This year's RAB forum is
25	being held in Salt Lake City. Back in 2001, they

1	Bethpage RAB - 4/14/04 - First Iteration
2	had one in Denver, Colorado. Every two three years
3	they're trying to set one up. We'll talk a little
4	about RAB membership every two years we'll review
5	our roles see who still is interested in being a RAE
6	member, who hasn't come and who needs to be taken
7	off membership also you can review your co-chair if
8.	you so desire. The co-chairs are invited to go to
9	this RAB forum.
10	MR. COLTER: It is paid for by the
11	Navy. So we'll talk about that at the end.
12	And anyone from the RAB can go in the
13	co-chair's place.
14	As I understand it, it was pretty
15	informative last time.
16	CO-CHAIR McBRIDE: The last one that
17	I went to, in all honesty, in Denver, is where we
18	got the information. We made the contacts with the
19	people from the Navy that were able to facilitate us
20	getting the third party review. Also all the
21	presentations they put together for all the
22	co-chairs from around the country which is first
23	class, good informative information, on-site
24	assessment, all different types of remediation, you
25	pick and choose different conferences that you

1.	Bethpage RAB - $4/14/04$ - First Iteration
2	wanted to go to. The Navy did a first class job.
3	MR. COLTER: We'll talk a little bit
4	more about that at the end.
5	The other thing that I have, Jim,
6	again I don't know if you received this. The Offic
7	of the Undersecretary of Defense sent out a draft
8	proposed rule regarding some changes to how RABs
9	work and some of the charters.
10	CO-CHAIR McBRIDE: No.
11	MR. COLTER: It is out for draft so
12	you can send in comments. If anyone wants to
13	review this, and send in comments, leave your name
14	with Judy Lamey. I'll make sure you get a copy of
15	this to look at and send in comments.
16	That's it for the administrative
17	remarks.
18	What we have been doing, basically,
19	since we've met, back in November, we have been
20	working were our new fiscal year funding. It came
21	in in January. Some of the plans that I alluded to
22	at the last meeting are now coming to fruition. One
23	of those is the design and installation of the CM20

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remedy, the hot spot remedy. We have an update on

that a little later. One of the things we were able

1	Bethpage RAB - 4/14/04 - First Iteration
2	to complete was the installation of the outpost
3	monitoring wells along the southern boundary of our
4	plume, upgradient of several water supply districts
5	So we got those installed. We did
6	some preliminary sampling to see what everything
7	looks like. And we are about ready to install
8	dedicated pumps and these wells will then be turned
9	over to Northrop Grumman for water sampling under a
10	long-term sampling program. As you'll recall the
11	wells are put in to be early warning wells, for
12	possible detections of VOCs into the public water
13	supply.
14	I'd like to turn the meeting over to
15	Dave Brayack, from TetraTech NUS and Dave Stern from
16	Arcadis.
17	The Daves, they're going to go over
18	the completion of these wells, where they were at
19	some construction type drawings, and then Dave Sterr
20	will go over what we did with some of that data and
21	how we made some cross-sectional views of the
22	subsurface and he'll go over those briefly.
23	MR. BRAYACK: I don't have a
24	presentation for the projector. I have hand-outs.
25	I believe everyone has seen this before so Illa be

1	Bethpage RAB - 4/14/04 - First Iteration
2	very brief on this and then Dave Stern has some
3	cross-sectional data. Most of the detailed
4	discussion on the cross-section we'd like to wait
5	till after the meeting. They're on poster boards.
6	They're very small. We can address the individual
7	questions at that point in time. Different Dave Jim
8	had mentioned there was a series of four clusters,
9	each cluster had two to three monitoring wells in
10	it. These monitoring are located along the bottom
11	of this figure out. If you start to the west you
12	see there was cluster 41, 42, if you go a little bit
13	east and south, there's cluster 31 and 32. Right
14	next to the Seaford Oyster Bay road, you could see
15	Outpost 21 and 22. And then finally to the east,
16	you'll see three wells, 11, 12, and 13.
17	These figures were taken directly out
18	of a report that was submitted in March, the RAB
19	co-chair has it. It has been distributed to the
20	regulators. And most the other people, as well.
21	CO-CHAIR McBRIDE: I was under the
22	impression that any report I received was also going
23	to everybody. That's the way it was working.
24	MR. BRAYACK: I believe you're right.
25	MR. COLTER: I think I did send them

1 Bethpage RAB - 4/14/04 - First Iteration 2 to everybody. 3 CO-CHAIR McBRIDE: Anything that 4 comes to us, there's so few of us, please keep 5 everything going to all the members. 6 MR. BRAYACK: We did that, you're 7 right. CO-CHAIR McBRIDE: Thank you. 9 MR. BRAYACK: As Jim had mentioned, 10 anyway, these were early warning wells, if detection 11 shows up in these wells, there's a possibility within the next five year time period there could be 12 13 an impact at one of the local water districts. The 14 Levittown Water District, New York Water District, South Farmingdale Water District, they have two 15 16 different clusters. So those wells were installed they were finished, developed in December. As far 17 as the second page is concerned, we talk about these 18 19 monitoring wells, I wanted to briefly describe what

When we install these, we drill straight down. We use a technique called mud rotary. We drill down to the bottom of the well, we set the monitoring well down, the monitoring well is PVC pipe with a slotted screen at the bottom. The

a monitoring well is.

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1	Bethpage RAB - 4/14/04 - First Iteration
2	We are talking about the water supply on Long Island
3	occurring in this area, that is the Magothy aquifer.
4	A lot of wells penetrated into the Magothy. A lot of
5	the wells you're seeing here are represented as
6	sticks. You'll see the intervals for the various
7	well. These wells are wells that have already been
8	drilled or used for informational purposes for
9	cross-section. Show vertical profiles, as I'm sure
10	you know the Navy drilled over a number of years,
11	actually shows the outpost wells that the Navy
12	drilled for these purposes of monitoring the public
13	supply wells. Each out post wells shows you the
14	*lithology of the area of the supply well, with the
15	cutpost well, and further up to the north, as you go
16	back further to the side. It ties in a lot of how
17	these wells show vertically and laterally with
18	respect to the sites and also where the public
19	supply wells. You can get a feel for the depth of
20	the well and where they are relative to the screen
21	of the public supply well, which draws in the water
22	supply.
23	There is a lot of detail on these
24	figures.
25	CO CHAID MAMINEMI. The linear

1	Bethpage RAB - 4/14/04 - First Iteration
,2	distance on the cross-section.
3	MR. STERN: Each inch is 500 feet.
4	There is a 10 to one exaggeration so the vertical
5	foot distance is 50 feet. So there's basically
6	these are stretched in this direction, vertically.
7	CO-CHAIR KAMINSKI: 50 times time
8	Dave different 500 to 50, so it is a 10 to one.
9	CO-CHAIR KAMINSKI: What is the
10	linear distance.
11	MR. SCHARF: Show the miles.
12	MR. BRAYACK: This is zero, five
13	thousand feet is here.
14	CO-CHAIR KAMINSKI: Two and a half
15	miles.
16	MR. BRAYACK: This is about two mile
17	along the cross-section. Some are longer some are
18	Shorter. On each of these one, it is a key plan
19	relative to the sites and of major roadways kind of
20	where you are. A lot of gray lobs are larger clay
21.	areas we've encountered we white area is sort o
22	general mixture of sand and silt. Not
23	differentiated on the cross-section, but there is

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more to it than that, a little bit. We are look at

significant clays, where the wells are, relate to

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1 Bethpage RAB - 4/14/04 - First Iteration
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- 2 the clays and to each other.
- 3 CO-CHAIR KAMINSKI: You didn't try to
- 4 correct the layers.
- 5 MR. BRAYACK: Where wells are close
- together, you could see how much distance there is,
- 7 several mile or more between the two miles, where
- 8 you have wells together you can make interpretation
- 9 where you think clays occur at same elevation in two
- wells relatively close, you can say likely those
- 11 clays are interconnected. Its common on Long Island
- 12 you can drive a hole and be 10 feet away you won't
- see the same lithology, hole to hole.
- 14 The larger patched area? This is
- 15 widely studied by the USGS and others, that is
- 16 considered region wide clay bed which confines the
- 17 Magothy Aquifer, and it is solid and basically an
- impermeable zone. Not water productive.
- 19 MR. COLTER: Any questions?
- 20 CO-CHAIR KAMINSKI: 600 feet down to
- 21 the.
- MR. STERN: Yeah, six and 700 feet.
- 23 It dips as you go further to the south.
- 24 CO-CHAIR KAMINSKI: Most production
- wells are at six.

1	Bethpage RAB - 4/14/04 - First Iteration
2	MR. STERN: Nowadays on Long Island,
3	most production wells are in the deep part of the
4	Magothy, 15 feet below the top of the Raritan unit.
5	If you come up close, you can see a lot of wells are
6	screened at the very same intervals as you get
7	deeper in the Magothy, you get coarser grained
8	material that is more productive. A lot of wells
9	are screened where they are, they produce a lot of
10	water down there. A lot time and effort went through
11	to plot the wells. We tied in the *lithology as
12	best we can. This gives you as best a
13	representation on paper, the three dimensional
14	features of the Long Island geology, hydrogeology.
15	If you have any questions afterwards,
16	I'll be happy to do that.
17	CO-CHAIR McBRIDE: Thank you.
18	MR. COLTER: Thanks, David.
19	Essentially, what we are trying to
20	accomplish, here, are is the implementation of
21	the various components of the groundwater */TKREUPL ROD
22	that was produced by New York State DEC and then
23	adopted by the Navy. Again the reason the Navy
24	adopted its own ROD was for funding purposes. We
25	have to show our headquarters a legal type document

1	Bethpage RAB - 4/14/04 - First Iteration
2	to say we need to spend this type of money, doing
.3	these activities. Essentially, and Steve will go
4	over this in a little more details, the three I
5	guess there's three main components of the ROD. One
6	is to contain groundwater on-site, where the
7	majority of the contamination is. That has been
8	done and continues to be done by Northrop Grumman
9	through that *ONCT, which is on-site containment
10	system. The second component is to protect the
11	public water supply from those contaminants that
12	have already passed the Northrop Grumman southern
13	boundary. That is mainly what this is for. This is
14	to do sentry wells, early warning wells, to give the
15	Navy at least a five year window. If any
16	contaminants are found in these wells, then it is
17	likely that a future impact will happen to certain
18	public water supply and gives us a five year window,
19	to take action, to put a treatment system on.
20	The third component of that
21	groundwater remedy is basically trying to find any
22	hot spots which have been defined as anything over
23	one part per million, which is a thousand parts per
24	billion, delineate it, and try to get as much mass
25	out of that area as possible, to reduce the loading

1 Bethpage RAB - 4/14/04 - First Iteration of the aquifer. That is what I'm going to go over 2 now. Did everyone get a copy? This is basically a schedule of events. 5 CO-CHAIR McBRIDE: One quick one for 6 you, Jim. The containment system that is in 8 place now, the one run by Grumman? Has there been 9 any discussions between the EPA with the Hooker 10 site, over the past -- since the last meeting, whether there's -- what the negotiations are between 11 12 those two? I think you had told us two meetings 13 past, because I was not here for the last one, that there was talk that Hooker, and the EPA, wanted to 14 15 use the Grumman containment system also from that 16 plume. Does that affect this in any way, what 17 you're going to discuss. 18 MR. COLTER: No. Not the GM38 area. 19 But the EPA and Occidental Chemical are in 20 constitutional with Northrop Grumman and the New 21 York State DEC on that issue, regularly. The Navy's 22 kind of stayed out of that, out of those 23 discussions. It is basically Occidental Chemical

taking responsibility for the amount of chloride

portion of the plume. Which could adversely impact

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1	Bethpage RAB - 4/14/04 - First Iteration
2	Northrop Grumman's treatment system.
3	CO-CHAIR McBRIDE: That was my
4	concern.
5	MR. COLTER: There is a whole bunch
6	of different scenarios that have been addressed.
7	Occidental has stepped up to do whatever is
8	necessary. I think Steve has more information on
9	that than I do.
10	CO-CHAIR McBRIDE: Thank you.
11	MR. COLTER: Probably get into it.
12	In his presentation, he'll allude to that I'm sure
13	If not, we'll address it at the end.
14	CO-CHAIR McBRIDE: I thought it was
15	tied in with what you're about to discuss.
16	MR. COLTER: No, this is the GM 38
17	area, the hot spot area, just for reference.
18	CO-CHAIR McBRIDE: Okay.
19	MR. COLTER: Is down in this area
20	here. So you can see how far away it is from
21	Occidental.
22	CO-CHAIR McBRIDE: Okay.
23	MR. COLTER: As you can see on the
24	schedule, we installed a few vertical profile
	a zon vereregi brottie

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borings, to delineate what is the one part per

1	Bethpage RAB - 4/14/04 - First Iteration
2	billion hot spot. And those 15 through 18 lines.
3	We went into conceptual design phase
4	to layout conceptually what this treatment will look
5	like, what properties are we going to impact and we
6	started some preliminary discussions with the Town
7	of Oyster Bay about utilizing some of their
8	property.
9	Where we are at now, is line 30 and
10	below the actual construction of the remedy. Over
11	the winter time when our fiscal year funding came
12	in, we awarded a contract to Foster Wheeler,
13	formerly Foster Wheeler, now Tetra Tech FW, a
14	subsidiary to Tetra Tech NUS, right now they are
15	working on a workplan to go out and do geophysical
16	studies, take soil samples to design a foundation
17	for a building. They're also they're also going
18	to get a surveyor out there, and that is shown on
19	35. Right now we are talking with the Town of
20	Oyster Bay, to get a temporary right of entry
21	agreement with the town, to allow us access to the
22	property to do surveying and some of this other
23	work. That is a temporary agreement.
24	CO-CHAIR McBRIDE: There was
25	discussion six months ago regarding possibly

1	Bethpage RAB - 4/14/04 - First Iteration
2	approaching the water district to see whether it
3	could be sited on their property. Any update on
4	that.
5	MR. COLTER: We gave that at the las
6	RAB.
7	CO-CHAIR McBRIDE: I apologize for
8	not being here the last time.
9	MR. COLTER: That was part of the
10	conceptual design, lines 19 and lower, where we went
11	through different scenarios of where we could site
12	this building.
13	In short there was a lot of legal
14	issues between the Navy that made it impractical for
.15	us to either lease or take ownership of water
16	district property. In short, they wanted us to take
17	ownership of it and then give it back to them when
18	we were done. And as Joe alluded to, the Navy is
19	not buying land anymore. We are actually getting
20	rid of it. That posed a problem with us. Spoke to
21	the town of Oyster Bay. As you know we have been

- 22 putting wells in their highway right of ways for the
- last six, seven years. They were very receptive to
- 24 having us utilize some of their land.
- So the surveyor should be out there

1	Bethpage RAB - 4/14/04 - First Iteration
2	by the end of this months what we are hoping we are
3	expecting temporary access to be in this week. And
4	get the surveyor contract should be awarded this
5	week. He should be out there. One of the key
6	component of that survey, not only is getting legal
7	descriptions that then our real estate folks will
8	turn into a long-term easement, we also want to have
9	a surveyed area to lay out what we think other
10	treatment plant should look like. We want to
11	conduct a neighborhood workshop. I mentioned this
12	last couple of meetings but because of funding
13	delays and things like that, we haven't really been
14	able to schedule it. If all goes well, I would like
15	to have that neighborhood workshop in July. We'll
16	have to talk to the Town of Oyster Bay, we'll send
17	out flyers, and actually go door to door to some of
18	the folks in that area, to get them to show up to
19	the workshop and we'll put together poster board
20	similar to this but it will kind of have a design
21	aspect to it. Folks can come and walk through and
22	ask any questions they have pan man Jim, July is
23	very bad time to have public meetings with everyone
24	on vacation.
25	MR. COLTER: Okay.

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1	Bethpage RAB - $4/14/04$ - First Iteration
2	A MAN: Do it in June before school
3	goes out or after the second week of September.
4	MR. COLTER: Okay.
5	June is a problem for me personally.
6	But September might not be bad to be honest with
7	you. I was trying I know we have been saying we
8	are going to conduct one and I didn't want to push
9	it back too far but maybe you're right maybe after
10	school starts would be a better time.
11	A MAN: That is something that the
12	RAB has to discuss especially being.
13	A MAN: There is so many holidays,
14	September would be good.
15	A MAN: The treatment facility will
<b>L</b> 6	be close to people's houses. You don't want a call
L7	back later on, saying I never knew there was a
L8	meeting and you got this thing down the block from
L9	my house.
20	MR. COLTER: We definitely don't want
21	that.
22	CO-CHAIR McBRIDE: If you're looking
13	to put a steel tower in the area, it won't be too
4	well received unless the architects really work
5	their magic on it

1	Bethpage RAB - 4/14/04 - First Iteration
2	MR. COLTER: In that area, if you're
3	familiar with it, it is pretty heavily wooded and we
4	are going to set our building back as far as
5	possible toward the expressway, and keep as much of
6	that buffer as possible. But what we need to do is
7	get that survey of the area and see what it looks
8	like and come up with a proposal.
9	MR. SCHARF: Jim, it may not be a bad
10	idea to have two meetings, one in July to get
11	feedback and have a follow-up meeting and re-explain
12	in September so you can have answers to all the
13	questions the second time around.
14	MR. COLTER: That might work.
15	MR. SCHARF: This way you can keep
16	proceeding with the design unless there is something
17	that is really presented to us as a problem.
18	CO-CHAIR McBRIDE: Are you looking
19	for the community's input or you're trying to test
20	the waters to see.
21	MR. COLTER: It's it is going to go
22	there. It is not up for vote, or anything like
23	that. It is basically giving them heads up that
24	there will be construction going on in the area,
25	this is what we think it will look like this is

1	Bethpage RAB - 4/14/04 - First Iteration
2	how we'll try to mitigate the short term impacts,
3	this is what you can expect to hear or not to hear,
4	things like that. It is basically a heads up of
5	what's going to happen in their neighborhood. We'v
6	basically run out of options as far as where to sit
7	this. In any other area, it's too heavily
8	residential and now you're talking about miles and
9	miles of piping, which makes the project cost
10	prohibitive.
11	CO-CHAIR McBRIDE: The people in the
12	area who live there, want to have a say in it. If
13	it was in my neighborhood, we would be approaching
14	town officials that there may have to be some
15	concessions on the part of the Navy. They are
16	putting something in someone's backyard that wasn't
17	there.
18	MR. COLTER: We definitely will
19	listen to the inputs. Like I said, we'll do a
20	conceptual of what we think it should look like.
21	Based on comments, we'll make judgements.
22	CO-CHAIR McBRIDE: At the timing of
23	these meetings if people have serious comment, is it
24	going to be at the point where it is already too far
25	into the process to accept these comments.

Bethpage RAB - 4/14/04 - First Iteration 1 2 MR. COLTER: No. 3 CO-CHAIR McBRIDE: That is something from my point of view I would think that the Navy is bound to at least put it to the residents. It will be in their neighborhood so they have an opportunity to have their comment. MR. COLTER: We have been talking to 9 the Town of Oyster Bay officials. Who is on the RAB? 10 11 A MAN: John Venditto. MR. COLTER: Yes. I've met with him 12 13 on several occasions. He's walked the site with us. We've met with Steve actually to say this has to 14 15 happen, it's part of a legal document, we need to do 16 it. He's on board. And it is through his office is where we are getting the easement and things like 17 18 that. It was at his suggestion that we have this 19 workshop. It is a good idea. 20 CO-CHAIR McBRIDE: I understand the 21 technical side, I understand your need for it but 22 also I do think we have to insure there is 23 compassion for the people that live in the area, 24 that can have input. If there is something that

needs to get changed, I look at what the water

1	Bethpage RAB - 4/14/04 - First Iteration
2	district did if the way of, I guess through the
3	Navy, the treatment facility down by the hospital.
4	And unless you knew that that house was a treatment
5	facility, it blends in with the neighborhood.
6	MR. MANGANO: Do you have a date for
7	the hearing.
8	MR. COLTER: It is not a public like
9	meeting it is just workshop. It will be informal,
10	with a lot of poster boards with Navy officials,
11	hopefully Grumman officials hopefully.
12	Steve will show up and we'll answer
13	any questions. We'll have like I was saying
14	before, we'll have a poster session. People can
15	walk through and look at the different posters and
16	things which is essentially going to be a draft
17	design. We'll hear the comments and we'll take the
18	input, you know as appropriate.
19	MR. MANGANO: What municipal
20	approvals do you need to actually make it come to
21	fruition.
22	MR. COLTER: All the land we are
23	looking at using is Town of Oyster Bay.
24	MR. MANGANO: Whatever town process
25	and town officials.

1	Bethpage RAB - 4/14/04 - First Iteration
2	MR. COLTER: Right. Right now.
3	MR. MANGANO: Do you have the time
4	frame of that.
5	MR. COLTER: Right now, we are
6	working with the town beginning a temporary right of
7	entry, that's line 35. That is just a temporary
8	permit giving permission for us to send a surveyor
9	in and a driller to get some soil data. Get a
10	surveyor there to survey the area so we can start
11	doing drawings man began July?
12	MR. COLTER: We were looking at July.
13	Line 39 is the workshop an as Mike pointed out that
14	is summertime.
15	MR. MANGANO: That is a tough time.
16	MR. COLTER: That is a tough time.
17	We may move it to September or as Steve suggested,
18	maybe we'll have two workshops whoever can make it
19	in July, we'll listen to some of the comments and we
20	can input them and redo it.
21	MR. MANGANO: If we can do two, that
22	is a good idea. You get initial reaction of the
23	community.
24	CO-CHAIR McBRIDE: When people see
25	equipment going into the area they want to know I

Т	Bethpage RAB - 4/14/04 - First Iteration
2	would ask too that what you really look at doing is
3	very detailed mailing to all the people in the area.
4	MR. COLTER: Even when the surveyor
5	and the driller are there, we'll put drilling
6	notices out we'll walk the community for the people
7	in the neighborhood to give them a heads up that.
8	Is standard procedure for us.
. 9	MR. MANGANO: You'll have a site plan
10	at that workshop.
11	MR. COLTER: Yes, that is why we need
12	the surveyor to get in there so we can survey the
13	area and put what we think is our idea of where the
14	buildings should go, where the wells are going, what
15	the piping runs look like, there's a lot of
16	utilities in there we have to locate so we don't
17	mess those up so Our first priority is getting
18	the surveyor in there to do that. And those
L9	drawings will be what is used at the workshop.
20	So we are moving on. We are
21	continuing, we are making progress. Over the
22	wintertime, is a good time when we do all of our
23	plans, and in the summertime, we go out. And do as
4	far as assuming that this all goes well and
5	according to schedule, the first thing we'll do is

1	Bethpage RAB - 4/14/04 - First Iteration
2	actually install the wells. We have done
3	presentations previously on where the, tracks wells
4	are going, and where the injection wells are going.
5	We'll actually be putting those in at the
6	first would be one of our first items is it
7	actually putting those in and that will be later on
8	this summer hopefully in July if, if we can we get
9	our access agreements and stuff like that, to get
10	aquifer data, soil data, so we can incorporate that
11	into the design of the treatment building itself and
12	the stripping tower.
13	So we are making progress. We are
14	not moving very quickly but we are moving forward.
15	Three main components of the ROD is
16	the containment system that's operating to protect
17	the public water supply, the sentry wells are in and
18	addressing this hot spot area which we're starting
19	to do now. So we are almost there.
20	At the last RAB meeting we had some
21	questions on we get a lot of information on where we
22	are at today the question came up how did we get
23	here. So Steve Scharf from the DEC offered to kind
24	of do a re-cap of the history of the site, how we
25	got the RODs in place, how we came to the decisions

1	Bethpage RAB - 4/14/04 - First Iteration
2	that we did, to finally come up with the ROD that we
3	are working on.
4	MR. SCHARF: Thanks, Jim.
5	If you don't have one, I made a copy
, 6	of the presentation that I made. You can does
7	everybody have a copy?
8	My name is Steve Scharf, I'm the
9	project manager for DEC or division of environmental
10	remediation, overseeing remediation of the Northrop
11	Grumman Naval Weapons Industrial Reserve Plant. At
12	the request of the Navy, I put together a review of
13	the whole process that we are operating under.
14	On the first page, what we are
15	operating under is the federal law Comprehensive
16	Environmental CERCLA Response & Compensation
17	Liability Act. That was reauthorized as the Super
18	Fund. The DEC has promulgated their own set of
19	regulations, known as the Environmental Conservation
20	Law, which regulates the clean-up of facilities
21	defined as inactive hazardous waste sites.
22	Just to go through real quickly, when
23	a site is thought to be a hazardous waste site, it
24	goes through a preliminary site assessment. If that
25	shows that there was a problem there, we list it on

1	Bethpage RAB - 4/14/04 - First Iteration
2	the New York State Registry of Inactive Hazardous
3	Waste Sites. If it is a really bad site, we can
4	we have the option of nominating it to the EPA
5	National Priorities List. We then go to PRP, and
6	negotiate a consent order. We ask them to do an
7	investigation under that order. We do an IRM. For
8	example, Grumman was identified. They contain the
9	groundwater plume emanating from the site we are
10	talking about here, by putting in a pump and treat
11	containment system and went in almost 10 years ago
12	and been on line since 1998.
13	The information that is gained in the
14	investigation through a feasibility study is done to
15	screen alternatives, to determine what is the best
16	alternative, to mitigate the problem created by this
17	environmental hazard. And in doing that, we go
18	through a set process as promulgated under the law.
19	Protection of human health, long-term effectiveness,
20	long-term permanence, there's nine criteria that we
21	use to screen the alternatives.
22	Once we look at all the alternatives
23	and we go through the screen proses, we will put
24	together a PRP and that is put together in the ROD

to the site, and once the ROD is signed, then we

Ţ	Bethpage RAB - 4/14/04 - First Iteration
2	move to the remedial decision and remedial action
3	phase.
4	In addition, some sites, for like
5	this one, for example, has a long-term operation and
6	maintenance pump and treat system, which will
7	probably be going on for a long time.
8	In particular on this side, under the
9	CERCLA process as an inactive site, everyone here
10	has to remember if you go back just ten years ago,
11	this was a top secret defense facility that
12	manufactured aircraft for the Department of the
13	Navy. As such, they had a lot of processes going on
14	that generated hazardous waste.
15	The other program at DEC that
16	regulates active facilities, essentially is called,
L7	the law is called Resource Conservation Recovery
L8	Act, RCRA, for short.
L9	If you look RCRA regulates the
20	active facilities. So in that case, the naval plant
21	was operating both under RCRA and under CERCLA.
22	Once Grumman had announced that they were going to
23	close this facility with respect to manufacturing,
24	they are they still have a presence with
:5	engineering and design. Then the site switched from

1	Bethpage RAB - 4/14/04 - First Iteration
2	active permitting, to what is known as corrective
3	action under RCRA. And because the facility had the
4	RCRA permit at the same time the investigation was
5	going on, under the CERCLA process, we sort of
6	delegated that the inside of the buildings would be
7	dealt with under the RCRA program and the outside
8	and the groundwater would be dealt with under the
9	CERCLA program. And we are still operating under
10	that today. In fact, I could spend a couple of
11	hours talking about all the corrective actions that
12	were done on the Grumman facility. All the various
13	plants, Plants 1, 2, 3, 5 are the major ones and
14	Plant 12, where they had to decommission the
15	facility, take out all the equipment and identify
16	those areas where has waste were spilled into the
17	environment and corrective action was necessary.
18	So for the most part, the corrective
19	action is now complete. It has been a long process
20	As Joe was telling you, they first announced closure
21	of this plant back in 1996 and here we are in 2004
22	and we are still looking to finalize the RCRA
23	process for what's happening with the permit to
24	generate, transport and dispose of hazardous waste.
25	That's the regulations, some of the

1	Bethpage RAB - 4/14/04 - First Iteration
2	state regulations, that we operate under here, and
3	that we are here to talk about tonight.
4	I'll give you a quick history of the
5	whole plant. In the 1930s, Grumman first moved here
6	from Baldwin to Bethpage to set up their operations
7	here and begin manufacturing aircraft.
8	In the 1940s, there was a build-up
9	under World War II and they built Plant 3 and 5 with
10	respect to the Navy property. The other properties
11	were Grumman, but Plant 3 and Plant 5 in particular
12	were owned by the Navy and paid for by the Navy and
13	operated by Grumman for the Navy. Hence the GOCO
14	term, or "Government Owner Contractor Operator".
15	From the 1940s to 1990's, Grumman
16	manufactured an enormous amount of aircraft for the
17	Navy up until the time that closure was announced in
18	1996.
19	Since 1996, we have been undergoing
20	the closure under corrective action.
21	Keep in mind even though the plant
22	was an active facility in the late 80's, the site
23	was listed on the DEC inactive hazardous waste
24	disposal site lists, because of problems in the

25

groundwater. We signed an order on consent with

1 .	Bethpage RAB - 4/14/04 - First Iteration
2	Northrop Grumman and a memorandum of understanding
,3	with the Navy to investigate the two sites. Grumma
4	announced they would investigate their properties
5	but not the Navy properties. The Navy agreed it wa
6	at that point that they started to try to unravel
7	how the two were intertwined. This is an unusual
8 .	site. It is both Navy owned and contractor owned,
9	and all contractor operated. So there were a lot o
10	problems that came up because of that, but I think
1.1	at this point we pretty much resolved most of that.
12	Even if we agreed to disagree, we are moving forward
13	with the remedy that has been selected for this
14	site.
15	Under the CERCLA process or RI/FS
16	process, the DEC first placed the Grumman Aerospace
17	facility in 1987. Again, in 1990, Grumman signed
18	an order with the DEC but said they would only
19	investigate their property. Also at the same time,
20	and as the consultant for Bethpage Water District
21	could give us more detail during his discussion, it
22,	was found an air stripper was required at the
23	Bethpage Water District No. 6 do I have that
24	right, John, the year?
25	*John John that is correct

1	Bethpage RAB - 4/14/04 - First Iteration
2	MR. SCHARF: At that time, based on
3	routine sampling as required by the New York State
4	Department of Health, low levels of VOCs were
5	beginning to show up in the water supply. In order
6	to be productive, the water district moved forward
7	with implementing a remedy and then after that point
8	began to enter into discussions with Northrop
9	Grumman, which at the time was Grumman Aerospace, to
10	fund reimburse them for what they money they
11	laid out for this remedy.
12	So once the investigation began, an
13	enormous amount of testing went on under the DEC, as
14	a Class 2 site, a number of monitoring wells were
15	installed and a number of source areas on the
16	external parts of the building were identified. Out
17	of that information, two RODs were signed. One by
18	the Department of the Navy for sites one, two, and
19	three, on Plant 3 property. And one by Northrop
20	Grumman for a huge TCE spill right across the
21	street, here, at Plant 2.
22	Accordingly those recommendations
23	have been or are currently being implemented at
24	Plant 2. Northrop Grumman is operating a soil vapor
25	extraction system to pull out all the solvents that

1	Bethpage RAB - 4/14/04 - First Iteration
2	remaining in the soils. At the same time, it was
3	found that because of the sandy soils in the area,
4	the groundwater was now contaminated and it was
5	imperative that they do something about it and they
6	went Grumman went forward with designing and
7	implementing a containment system. That took about
8	four years from the time they first mentioned it to
9	the design, to the construction, and to the
10	implementation.
11	To get a feel for the time frame
12	here. There's a lot going on, they are closing
13	down, commissioning a 600-acre facility at the same
14	time the investigation is going on, reports are
15	being generated both under the RCRA program,
16	corrective action, the DEC's CERCLA, under the RI/FS
17	program, and thrown into the mix was an Oxy-Hooker
18	Ruco site. Ruco Polymers was bought by Hooker
19	Chemical and Plastics, which was the same company
20	that brought us Love Canal at Niagara. It became
21	the Oxy-Hooker Ruco. It turned out they were
22	running a different type process making plastics,
23	where they were recharging groundwater into these
24	recharge basins that were contaminated with vinyl
25	chloride, they made polyvinyl chloride piping there.

1	Bethpage RAB - 4/14/04 - First Iteration
2	That plume is now reaching, which is what Jim's
3	talking about, that plume is now reaching the
4	Northrop Grumman containment system and we are
5	having to deal with that. Oxy has stepped in and
6	put treatment on the air stream to remove vinyl
7	chloride so it is not emitted into the atmosphere.
8	The *ONCT system went on line. There was an attempt
9	to try to negotiate a groundwater regional
10	groundwater remedy between the Navy, Grumman and Oxy
11	fell Hooker Ruco and it <del>felt</del> apart for a number of
12	reasons. What each does, they came up with their
13	own remedy. Actually Grumman and the Navy got
14	together and jointly funded a study for the
15	groundwater problem, and the single most important
16	part of that, remedy, on that RI/FS process, was the
17	containment system.
18	What came out of that was the ROD
19	that we moved to, at the bottom, in 2001, where we
20	had realized based on testing the plume was far from
21	the property and beyond the containment system. We
22	weren't sure how far but we knew that it was
23	off-site, based on testing that was done. Given the
24	enormity of the plume, full containment of the
25	off-site plume was not a feasible alternative.

1	Bethpage RAB - 4/14/04 - First Iteration
2	Accordingly, we said what are we
3	going to do? There are municipal wells
4	downgradient that may be impacted with these low
5	levels of contaminant in the groundwater. We came
6	up with wellhead treatment, removal of hot spot,
7	and/or hot spots that may be identified in the
8	future, which includes one area to the GM 75 area,
9	in addition to GM38, which the Navy will evaluate as
10	to the need of additional off-site pump and treat.
11	Jim didn't mention that but that is something that
12	is in the work plan.
13	Tracking the plume, and having a
14	contingency plan to put treatment on for any well
15	that needed it.
16	Now the contaminant that we are
17	talking about here, is a VOC. Fortunately, VOCs are
18	easily removed from the groundwater. John monthly Molloy
19	will get into more of that during his discussion.
20	And so we sat down before we signed the ROD with the
21	potentially impacted water district, and said this
22	is the route that we are going to go. They were
23	very concerned, naturally. One of the options that
24	was also put into the ROD was what is called
25	technical advisory meetings, or TAC meetings, which

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25

maintenance?

Bethpage RAB - 4/14/04 - First Iteration 2 we are going to have tomorrow morning, to update the 3 water district as to the status of the project post ROD. What is the status? That is some of what Jim 5 talked about tonight: The outpost wells, the sentry 6 wells, on the containment system, there's quarterly 7 monitoring of all those wells. And you know, how soon might they be affected by the plume that's moving off-site? So 9 10 that's -- just to sum it up, under the CERCLA 11 process, the remedy that we signed in 2001, was to have the off-site groundwater for the pump and 12 13 treat, continued operation of the on-site 14 containment system, continued funding for treatment 15 for the Bethpage Water District, and that's because 16 there are three water districts: Bethpage Water 17 District has three wells downgradient, 4, 5 and 6.

18 Six was paid for by Grumman, four was, Grumman paid for -- eventually, but the water district paid for 19 20 that upfront initially. Plant 4 was paid for by Grumman and Plant 4, by the Navy. The Navy stepped 21 forward to the water district and funded the entire 22 23 construction. NUS came up with a cost, present 24 worth cost, for the 30 year operation and

1 Bethpage RAB - 4/14/04 - First Iteration 2 MR. COLTER: Yes. 3 MR. SCHARF: That wasn't the case 4 with the other plants built by Grumman. That is still on the table for negotiation between the 5 6 districts and Northrop Grumman, am I correct? May I 7 say that. 8 A PERSON: That is correct. 9 MR. SCHARF: To summarize it all, I have not all been a part of this. It has been a 10 11 long process of bringing to the present. The Oxy 12 Hooker Ruco site RODs were also signed for that 13 site, to remove the vinyl chloride from the groundwater by a biosparging process, and the 14 remainder of the contaminant, when it hits the 15 16 Grumman containment system, will be dealt with accordingly by that system. It turns out EPA used 17 our remedy anyway, but they were reluctant to write 18 that in their ROD, but they did. I got a comment 19 letter yesterday on the biosparge design. They 20 21 still have issues that we have to sit down and 22 resolve. So it is an ongoing process. 23 Also the main thing is there's 2.4 another large component. When I say "large", this

is only maybe two-thirds of the site, the area of

. 1	Bethpage RAB - 4/14/04 - First Iteration
2	concern. These are all the monitoring wells that
3	are in the area, starting in the north, Plant 3, and
4	going to the south, by *Central Area Avenue,
5	Dave, how many would you say, at
6	least 200 wells?
7	MR. STERN: (Nods)
8	MR. SCHARF: A number of wells are
9	sampled quarterly. It is a long process. It takes
10	almost a month to sample all the wells, right?
11	MR. STERN: We sample a subset of
12	those wells, but every quarter.
13	MR. SCHARF: Every quarter. So it is
14	not an easy task. It is ongoing. It is a big
15	expense but we want to make sure we know what's
16	happening real time with the groundwater and the
L 7	contaminant as they're moving off-site.
1.8	When we signed the ROD in 19 in
L9	2001, this was a figure out of feasibility study
20	that was put together by Arcadis, based on some of
21	the real data and a some of the extrapolated data,
22	with groundwater models on the south end of that
23	figure on the left, which is hard to see, is
4	Hempstead Turnpike and the light blue area is low
5	level VOC contamination from operations that were

1	Bethpage RAB - 4/14/04 - First Iteration
2	done on Grumman Navy facilities. And we looked at
3	that. Even at that range one thing it doesn't
4	show here, because it has been extrapolated, is the
5	effects of the containment system, which is
6	somewhere to the middle or southern middle portion
7	of the plume, where it is having the effect of
8	cutting off the plume and redirecting it, and the
9	groundwater is starting to clean up. You see it
10	starting to clean up.
11	One other important task of the ROD
12	that the DEC signed, which the Navy signed their own
13	ROD as well, was predesign investigation, which are
14	also no simple tasks. It was a four or five million
15	dollar project, where the Navy, back in 2002,
16	completed I believe it was 15 vertical profile
17	borings, down to the Raritan clay, which is 800 feet
18	deep, taking samples every 10 feet, and looking at
19	the chemistry. Not only the geology, but the
20	chemistry, of the groundwater. And that was all
21	that was incorporated into a model as current data,
22	because we hadn't gone that far south before. When
23	we sat down with the water district, we said we
24	think the plume around Hempstead Turnpike, given the
25	model, some of you may be impacted in ten years and

1	Bethpage RAB - 4/14/04 - First Iteration
2	others in 30. Well it turned out, this one is
3	probably it is a little difficult to see, I
4	apologize for that, if you see the middle line
5	across the entire white line, Hempstead Turnpike, lo
6	and behold the plume was much further than we
7	thought initially.
8	We realized we had to step up the
9	program and get the outpost wells out. Those
10	outpost wells are now complete. In fact, we have to
11	look at, for Plant 1 of the South Farmingdale Water
12	District which is OU 1 or 3? Plant 1, outpost
13	well is three.
14	We have to wait to get Arcadis' data
15	back. Initial sampling shows low level
16	contamination moving to toward the South Farmingdale
17	well. If it does turn up those wells are
18	contaminated, the Department of the Navy will move
19	forward and open up negotiations, with South
20	Farmingdale, to implement a treatment remedy for
21	those wells.
22	One thing I left out, I'm saying the
23	Navy is doing this and Grumman is doing that. Well,
24	it sort there is some agreement and some
25	disagreement. We have all aspects of this project

1	Bethpage RAB - 4/14/04 - First Iteration
2	either being taken care of by the Navy, who stepped
3	forward to take care of off-site issues, anything
4	south of the containment systems. They told
5	Northrop Grumman, you keep monitoring and operate
6	your pump and treat system. That's been an ongoing
7	discussion between the Navy and Grumman and they
8	still agree to disagree but I certainly hope that
9	somewhere in the near future that that will all be
10	resolved.
11	A WOMAN: Can I ask a question. The
12	east side of that plume, is that near 135?
13	MR. SCHARF: That is correct.
14	A WOMAN: The lower portion.
15	MR. SCHARF: If you go to the next
16	slide.
17	A WOMAN: Right on top of my house.
18	MR. SCHARF: I've taken the slides
19	from some of the presentations that Arcadis made for
2.0	the Department of the Navy at previous RAB meetings,
21	and also at those TAC meetings. One thing you have
22	to appreciate, you can kind of see the three
23	dimensions, that once you get south of Hempstead
24	Turnpike, but even before that, these chemicals are
25	sinkers and they're moving they are moving down

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- 2 at a less degree than they're moving out. But
- 3 they're not in the shallow groundwater.
- 4 A MAN: Is that good or bad.
- 5 MR. SCHARF: It is not going to
- 6 impact your home.
- 7 A MAN: It will impact our wells.
- 8 A MAN: Don't dig thousand feet deep.
- 9 A MAN: First notice that's on the
- 10 list. Have they been notified.
- 11 MR. SCHARF: They had a private well
- there for irrigation or.
- A PERSON: The \*New Island Hospital.
- MR. SCHARF: Yes.
- MR. BRAYACK: They have a well for
- 16 non-contact pooling. They pull the water out and
- 17 put it right back in and it gets tested all the
- 18 time. It turned up clean every time.
- MR. COLTER: We put a test boring on
- 20 property. We sat down with them.
- 21 A MAN: They just expanded their
- 22 facility.
- MR. COLTER: They know what we are
- 24 doing and they gave us permission to come on their
- property to drill a well.

1	Bethpage RAB - 4/14/04 - First Iteration
2	MR. BRAYACK: All the groundwater in
3 .	this area is not contaminated. If we show
4	boundaries, when you put wells in, you find clean
5	wells as often as you do dirty wells.
6	MR. SCHARF: I'll say this much too,
7	for everybody else here. I'm just scratching the
8	surface, here. There is so many things going on.
9	For example, Grumman was pumping between five and 20
10	million gallons of water a day for various
11	processes. A lot of that acted to contain some of
12	the chemistry. Also acted in terms of recharging
13	it, it was pushing it down further. We have a much
14	better handle on what is happening now than we did
15	years ago back. As we move forward with these
16	remedies, in fact the remedy that Jim was talking
17	about earlier GM38 D2 remedy was pushed for by the
18	water districts, especially Bethpage. You have hot
19	spot areas near our wells, and we have treatment
20	systems designed to handle so much concentration,
21	and we are concerned that this may blow us out of
22	the water. So we looked at that and we agreed and
23	added that in as one of the remedies. So that gives
24	you an appreciation for the depth of the problem.
25	And it doesn't but as I said we are starting to

1	Bethpage RAB - 4/14/04 - First Iteration
2	see the aquifer clean-up especially in the area by
3	Central Avenue. And obviously we've worked on
4	cleaning up all the sources. Now as we enter the
5	long-term operation maintenance and monitoring
6	phase, we have to confirm that. In light of
7	protecting human health and the environment, we need
8	to step up and make sure that none of
9	these something being impacted we put the outpost
10	wells and treatment.
11	And another thing that was written to
12	the ROD at the direct request of the water district,
13	is that we put in a treatment system that can
14	produce water that is non-detect. Not such a
15	certain state standard president we looked at that
16	and got Grumman and Navy to agree based on current
17	methods analytical m <del>etal odds</del> which it is down to 500 quantitation
L8	down tie done to the parts per trillion, half a part per
L9	billion range. So that's good. That's low.
20	If I don't think if the near future they're going
21	to examine up with metal odds that do much better
22	than what we have now that being said that's how
23	where we got to today with the groundwater recommend
24	along the way there are other issues that have come
25	up with Grumman and in organics in the groundwater

1	Bethpage RAB - 4/14/04 - First Iteration
2	so we've added all' an under the RCRA cleanup to
3	monitor to make sure areas that were cleaned up for
4	in organs, chromium cadmium that they aren't impact
5	G W. We agreed under the CERCLA program it take the
6	responsibility for all that.
7	CO-CHAIR McBRIDE: Steve? I guess
8	between you and Jim there is that one other area we
9	haven't spoken about in a while where you were doing
LO	the vapor, extraction and site and you were going to
L1	have to scrape up for after the contaminant, is this
L2	tied into the groundwater or dealing with the
L3	separate issue?
14	MR. COLTER: That's Navy an is main
15	contaminated site on the property. Mainly
16	contaminated with VOCs and PCBs. That was our main
17	source area, which was contributing to the
18	groundwater contamination.
19	CO-CHAIR McBRIDE: Right.
20	MR. COLTER: That is why we went in
21	initially with the air sparging soil vapor
22	extraction system to clean up as much VOCs as we
23	Pose could so that this doesn't <del>post</del> a problem with
24	disposal when we dig up the PCBs that has been
25	completed and we are actually one of the things I

Ţ	Bethpage RAB - 4/14/04 - First Iteration
2	didn't update you on is we are now in the design
3	phase of a soil excavation plan for that. To dig up
4	the PCBs. So our source area, as far as continuing
5	to contaminate the groundwater has mainly been
6	cleaned up over 90 percent.
7	CO-CHAIR McBRIDE: Question came, up
8	over time we stated there are no contact surface
9	areas where a person could be exposed to PCBs. In
10	that are where you've done that extraction, if a
11	person were to walk on that soil, is there any
12	contact concern, any pathway from health hazard?
13	MR. COLTER: Mainly it is subsurface
14	PCB contamination. I don't think we have surface
15	contamination, Dave ,is that's right.
16	MR. BRAYACK: There is low level
17	surface contamination. It has been partially
18	delineated. It is fenced off.
19	CO-CHAIR McBRIDE: From a point of
20	dust moving into other areas.
21	MR. BRAYACK: When we first did the
22	investigation we collected eight or 10 samples and
23	the majority of it wasn't too bad. It needs to be
24	addressed for living there. We found one area that
)5	has playated levels of DCDs and within a result of

1	Bechpage	KAB	-	4/14/04	-	First	Iteration	

- 2 months, we put a soil cover on that as an interim
- 3 step basically.
- 4 MR. COLTER: We'll come back and dig
- 5 it up.
- 6 CO-CHAIR McBRIDE: Is the whole area
- 7 with the soil cover.
- 8 MR. BRAYACK: Just the one hot spot.
- 9 It was the fence line.
- MR. COLTER: Its the east end of the
- 11 plant. It is within the fenced area.
- MR. MANGANO: We are talking about
- that part the Navy is retaining title to.
- 14 MR. COLTER: Right. It is pretty
- well vegetated, actually. Like I said, most of it
- is subsurface. It was an industrial leach field so
- 17 mainly what we are finding is eight to 10 feet below
- 18 and some areas, even deeper.
- 19 CO-CHAIR McBRIDE: Has official, has
- 20 assessment really been done to, if anyone on the
- other side of that fence line were to say, am I
- possibly exposed to any of these PCBs or the dusts.
- MR. COLTER: Back in 1994 we sampled
- 24 yards adjacent to the Navy property for that reason.
- 25 CO-CHAIR McBRIDE: If a person came

1	Bethpage RAB - 4/14/04 - First Iteration
2	to you now, and said I'm walking on the other side
3	of the fence if, what sort of assurance could you
4	give them that they're not being exposed.
5	MR. COLTER: We did an assessment as
6	part of our remedial investigation, with the
7	resident, 365 days a year and the on-site worker and
8	the risk assessment for the surface soil contact for
9	the on-site worker, there was no incidental risk
10	within that EPA risk range, that EPA says is
11	satisfactory.
12	MR. MANGANO: Is there a time line
13	now for that particular piece.
14	MR. COLTER: We are in design right
15	now. We should have I'll have an internal draft
16	in about a month or six weeks. We'll have if we
17	decide to go forward with full excavation, we'll
18	send it to the regulators for review probably in
19	two, two and a half months. We'll get
20	those we'll hopefully get comment and things, and
21	revise it. The budget for that isn't identified
22	until fiscal year 2006.
23	MR. MANGANO: Is it you're developing
24	an actual plan and then you need to get it funded.
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1	Bethpage RAB - 4/14/04 - First Iteration
2	MR. MANGANO: Then you'll have a
3 .	finite timeline?
4	MR. COLTER: Because we are coming
5	close to 05, the 05 budget is already set, so, you
6	know, we are actually unless somebody falters and
7	fails to implement a big project, then money may
8	become available in 2005. But I have to look, the
9	Navy has to look at the design and the cost of this
10	and the constructibility of it. As I said, in some
11	areas we are down 35 feet and we have to question is
12	there is a need to take an action at 35 feet or not
13	based on concentrations and things like that. Our
14	ROD says right now, remove everything to 10 parts
15	per million.
16	MR. MANGANO: That takes you to 35
17	feet.
18	MR. COLTER: In columns. It is
19	really weird how this stuff got down there. It is
20	not 35 feet over the whole area. It is just in
21	certain spots. If it becomes too cost prohibitive,
22	we may have to go in with an explanation of
23	significant difference for the ROD and that will
24	take several months to do. Then that, if we are
25	successful in that, if we choose to pursue that line

1	Bethpage RAB - $4/14/04$ - First Iteration
2	of action, then that puts us into the 2006 time
3	frame from implementation. One way or the other,
4	I'm looking at 2006 as pretty hard to get something
5	done out there as far as getting rid of most of the
6	PCBs. Whether we go down to 35 or 55 feet is still
7 .	up in the air.
8	MR. MANGANO: The remediation plan on
9	the remaining property that is scheduled for
10	transfer to Nassau County. Jane Hodack (ph) was
11	going to be here. She's an attorney with Nassau
12	County, she's an environmental attorney. I know
13	Nassau came up at planning meeting and had question
14	or comment. How does that affect the timeline?
15	MR. COLTER: The remediation is
16	complete for the 96 acres slated to go to you, that
17	is our finding of suitability to transfer everything
18	has been done that needs to be done. You can have
19	that property at any time to do commercial
20	industrial type work.
21	MR. MANGANO: As we move toward
22	transfer she's going to have I was hoping she
23	would be here tonight but I believe she had several
24	questions that she wanted to raise and have answered
25	or addressed prior to the taking of the property.

1	Bethpage RAB - 4/14/04 - First Iteration
2	MR. COLTER: We met with her two
3	weeks ago and she laid out her questions and her
4 .	main question with respect to what I do, the
5	remediation, is the use of the decon pad, that we
6	call it, which was the former it was a former
7	RCRA permitted drum storage pad, secondary
8	containment. Anything that spills on there can't
9	get released to the environment. Then you can
10	powerwash the concrete, everything goes into a
11	contained sump, so it is a good facility to
12	decontaminate equipment, which is what I need to do.
1.3	MR. MANGANO: You want to continue to
14	use that decon pad that you're referring to.
15	MR. COLTER: Correct.
16	MR. MANGANO: Throughout at least the
17	2006 process.
18	MR. COLTER: She asked us to look if
19	we could get rid of it sooner could we move the
20	decon operations somewhere else.
21	MR. MANGANO: It comes right out.
22	MR. COLTER: We are asking for an
23	easement to utilize it. We owe her an answer but in
24	short the answer is her one big concern was when we
25	start digging up the PCB. At Site 1, how are we

1 Bethpage RAB - 4/14/04 - First Iteration going to eliminate or mitigate the potential for 2 3 those contaminants to go into the storm drain and then into the recharge basin? And we are going -- the storm water management plan will 5 address that. That will not happen. If we don't use the decon pad, to decon the dozers, the trucks, and things like that, and we have to construct it 8 near Site 1, then you introduce more of a risk. 9 I said that decon pad, it is a former RCRA facility 10 11 which had to be designed in a certain special way 12 with all the safeguards that will ensure that all of 13 the decon material, that we scrub our equipment 14 with, and scrub our trucks with and our dozers with, doesn't get released anywhere except into that sump. 15 16 Then we pump the sump out and test the water and 17 dispose of the water accordingly. So, you know, she 18 asked us that. We looked at that. I owe her an 19 answer. But basically that's going to be the answer, yes, we would like to use it throughout the 20 21 2006 remedy. Just to eliminate her big concern of releasing PCBs from decon water into the 22 23 environment. 24 MR. MANGANO: It has a bearing on what you can practically do with the property if you 25

1	Bethpage RAB - 4/14/04 - First Iteration
2	come up with site pan to reuse the property.
3	MR. COLTER: This is just me talk and
4	we realize the potential implication toss market
5	ability but our mandate is to clean up the property
6	and to do it in a way that minimizes any potential
7	risk of releasing the contaminants we are cleaning
8	up into the environment. And that's our best area.
9	That thing was specifically designed for that
10	purpose is to contain contamination when you clean
11	equipment. It is in our best interest and the
12	county's interest to use the facility not to
13	construct it somewhere else where where it is not
14	designed to do that.
15	MR. MANGANO: I don't want to get
16	ahead of us. It begs the question why take the
17	property, then you can't use it.
18	MR. COLTER: Yes.
19	A MAN: Began when you look to reuse.
20	Should we really take the property if you're not
21	going to be able to reuse it?
22	MR. COLTER: Nods.
23	MR. MANGANO: I'm sure she'll be in
24	touch and some of the questions are more technical.

CO-CHAIR McBRIDE: To follow-up on

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1	Bethpage RAB - 4/14/04 - First Iteration
2	that Site 1 area. Since you're not looking to
3	excavate you're saying even though there are low
4	levels at surface what sort of low level are we
5	talking about would it be feasible at this point to
6	put as you did on the hot spots, put a soil cap on
7	it fuel 2006.
8	MR. COLTER: It is a big area to dig
9	that soil. The low level we are talking is one to
LO	ten. One is a residential cleanup number. Ten is
l.1	the industrial cleanup number. As everyone knows
L2	the reuse of this property commercial industrial we
L3	cleanup to 10. So what I'm talking about is, you
L <b>4</b>	for, in those areas where we do have surface
L5	contamination as Dave Brayack said, that is minimal.
L6	It is might earn one but less than 10? Most of our
L7	over10 is down deep so adding a soil cover in the
.8	whole area, which is about an acre and a half and
_9	then to come back and dig it up for the chemical
20	that is on the surface, is really not a good
21	expenditure of money to do that.
22	CO-CHAIR McBRIDE: Steve, from your
23	point of view, do you see any concern if any of the
24	residents were concerned about that soil being
25	contaminated on the surface? If something should

1 Bethpage RAB - 4/14/04 - First Iteration done of be donor is it adequate right now? 3 MR. SCHARF: Are you talking about 4 Site 1 or areas two and three. MR. COLTER: Site 1. MR. SCHARF: Site 1, actually the DEC 6 is now promulgating those very cleanup standards for 7 industrial use and commercial use and residential 9 use. Right now the only thing we have is one parts 10 per million, unrestricted totally. One PCBs. If it 11 is more than that, we look for a soil cover and then if it is ten below then we restrict it saying okay, 12 it's -- you can't use this for residential use. 13 But the ROD that was written will 14 15 address contamination of PCBs when the DEC will. 16 review that when it comes in and we'll make sure that it will meet whatever the current standard is, 17 which is actually under change right now. 18 CO-CHAIR McBRIDE: Right now, I was 19 20 driving through the area, there's a residential 21 street and homes right across the street. If anyone 22 were to question, is there a health concern in the way it is sitting right now, if I could assure them 23

MR. COLTER: The only transport

that there is none.

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1	Bethpage RAB - 4/14/04 - First Iteration
2	mechanism as you said would be dust. The area we
3	could take a look at I don't have datea with me
4	but I could take a look at where our surface
5	contaminants are, the concentration. We'll have
6	our internal risk people do a risk assessment for
7	inhalation for the next RAB meeting. It is heavily
8	vegetated so the threat of dust is minimal. Add to
9	that that area is probably one of the areas where we
LO	don't have surface contaminants. If we do, they are
L1	between one and ten. The risk aassessment will show
L2	there is no risk to inhalation. But we can show it.
L3	CO-CHAIR McBRIDE: I know there is
L4	questions about the community park with dust and all
L5	that should still extend over here. If they're
L6	talking about sure it is a different area, not
L7	something part of the RAB but it would seem as
8.	though it would be a logical question that residence
.9	may ask that question and I think it would be the
0 20	right thing to have an answer for them from the
1	Navy.
2	MR. SCHARF: We refer those questions
13	to the health department in terms of public health
4	unfortunately they're not here tonight.
5	MR SCHARF. We can go back through

1	Bethpage RAB - 4/14/04 - First Iteration
2	and take a look at those numbers when the design
3	comes in, we'll go back and bring up the historic
4	data about PCBs and make sure they address areas of
5	concern that have to be addressed.
6	CO-CHAIR McBRIDE: Thank you.
7	MR. COLTER: Okay.
8	We've gone over how we got here,
9	we've gone over what we've done. Where we are at.
10	We know that our main goal is the protection of the
11	public water supply from those contaminants that
12	have already left the Navy and Northrop Grumman
13	property. And we addressed that through water
14	supply treatment systems. At the last meeting there
15	was a question from the community member, what
16	assurances are there that these treatment systems
17	continue to operate with certain scenarios such as a
18	power outage or other unforeseen circumstances
19	really that is not a place for the Navy to answer.
20	So we asked John Molloy, from H2M, who represents
21	the Bethpage Water District, maybe to say a few
22	words about how the treatment systems operate and
23	what contingencies are in place.
24	MR. MOLLOY: Good evening, everyone.
25	My name is John Molloy. I'm the

1	Bethpage RAB - 4/14/04 - First Iteration
2	president of H2M. We have been the consultant for
3	the Bethpage Water District for a number of years
4	and in the early 90's, I guess up to about four
5	years ago, I was the guy from the office that went
6	to all the meetings with Bethpage, on their normal
7	routine operations, and I was and have been party to
8	this thing now for, I'm now fully gray. When I
9	started, I know was at a minimum prematurely gray.
10	I have been actively involved with this for probably
11	a dozen years myself. And it is still ongoing. By
12	way of a little description, up there earlier in one
13	of the slides, you saw this huge blob emanating from
14	the Grumman site that went all the way down to
15	Bethpage. All the way through Bethpage right up to
L6 .	Hempstead Turnpike.
L7	The Bethpage Water District has three
18	production facilities in that area, right within
19	that plume as described there.
20	We have been as a district, the
21	district has adopted for a long time now a policy
22	that they won't use water that has contamination. A
23	little earlier it was presented, plant six the
24	treatment went in in 1990. In fact it was years

earlier than that that contamination was found there

1	Bethpage RAB - 4/14/04 - First Iteration
2	and the well was taken off-line. What the district
3	has done is when ever there's been any evidence of
4	anything, they have taken wells off-line and they
5	have done what they needed to do to clean up the
6	water, spending district monies and then doing what
7	they needed to do to get that money back. And
8	that's been an ongoing process now for a dozen years
9	plant six which was the first one that was hit has
10	two wells. We had installed a treatment system
11	based upon what was known at the time and
12	contaminant levels at the time. Very little data
13	was available. During that time frame virtually all
14	the work that was being done was being done on-site.
15	We were deeply involved with Grumman and DEC in this
16	kind of back and forth counter way of saying if we
17	need to go off site we need to go where the plume
18	is, we need to see how far it is. We collectively
19	then moved ahead through a whole series of
20	installing monitoring wells in that whole network
21	you see out there, came well by well, step by step,
22	push by push.
23	But we did install a treatment system
24	at Plant 6 before that went back on before we put
25	water back out into the system from that well. At

1 Bethpage RAB - 4/14/04 - First Iteration Plant 4, which is on the east side of the plume, 2 probably not far from where you live, is right along 3 4 the Seaford Oyster Bay, you see it as you drive by, 5 you see the big silver bullet there, that is a counter current pack tower. We have two wells. We installed -- the district installed the treatment there before there was contamination in the wells at 9 all, because we just felt it was coming, it was 10 coming our way and we want to have it there before 11 it hit there. As its turns out we were right. 12 already had the treatment system there and 13 operational before anything hit us. 14 The last of the three sites, that are 15 within the plume area, is the one right just north 16 of the hospital it was referred to a little earlier 17 as the one that we put in a residential looking 18 building that is a very effective and efficient 19 treatment system that is in that building, that one there, the plume is I think riding on top of the 20 21 well. It may be one of those areas that has a lens

Was a case where treatment system was installed before the problem hit. The case of Plant

down deep enough there.

of clay there so the contamination is not getting

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Т		Bechpage RAB - 4/14/04 - First Iteration
2		4, there was an agreement with Grumman man where the
3		money came back. In the case of Plant 5 the Navy
4		came to the table, the district actually did the job
5		and based upon the public bid that is we obtained,
6		we negotiated, I remember going down somewhere near
7		Philadelphia, to work that out, to develop an
8		agreement to repay the district for its capital
9		investment as well as for 30 years. This process is
10		continuing. Internally, I passed the baton to
11		another engineer, and who doesn't have quite as much
12	·	gray hair as I do, he's on the same technical
<b>1</b> 3		advisory committee, and he will be there tomorrow
14		representing Bethpage in our ongoing work with the
15		district, of staying on top of this whole situation,
16		as we have for the last dozen years. That is just
17		your water district's role in keeping this thing
18		going, and going in the right way from their point
19		of view.
20		I can remember the 38D from I
21		don't want to say how many years ago pressing for.
22		I'm anxious to see that thing installed and
23		operational. It may not have a bearing ultimately
24		on Plant 5 for Bethpage but certainly putting that
25		offsite treatment system in play will pull a lot of

1	Bethpage RAB - 4/14/04 - First Iteration	
2	contaminants out of the environment. Even if the	ey
3	pass by Bethpage, they are already moving south	of
4	the Hempstead Turnpike. They'll end up hitting	the
5	South Farmingdale wells and I think you alluded	to
6	that additionally.	
7	Tunderstand some questions came	ıın

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I understand some questions came up at the last meeting regarding how do you do treatment at the district? How does the district operate it? What type of safeties are involved? So let me address that a little bit. I'll talk in general terms but this is true of all three of the stations that I have. One of the stations has two wells. Another station has one well and the third station has two wells. So we have three plants that treat water that are within that plume area. each case, we have what's called a counter current Packed It is a very simple and I guess in engineering often times the simplest approaches are the most elegant approaches it is based on principals of chemistry, if you run air counter-current to water the contaminants much prefer to go into the air phase than into the water phase. You will take contaminants out of water phase and put it into the air phase. And these

1	Bethpage RAB - 4/14/04 - First Iteration
2	plants are now all designed to handle up to 600
3	parts per billion on the raw water side. If the
4	contaminants in the well got that high, we can bring
5	them down do non-detect.
6	In the case of a two-well site?
7	Means the treatment system there could take two
8	wells simultaneously, and bring it down to the point
9	of non-detect.
10	In the case of the one-well site, the
11	same thing is true for one well.
12	Now let me talk a little bit about
13	what we see in the wells in the raw water.
14	Plant 6 that has two wells, has
15	always been the one that has has had the highest
16	values in it. It was the first one that was
17	impacted. The shallow well air, general point of
18	view is run 2 to 300 parts per billion. In fact it
19	is maybe sliding a little lower. The deeper well on
20	that site is relatively clean. It has always been
21	clean. The shallower well essentially in effect
22	screens the deeper well. These wells across the
23	board run anywhere from 500 to about 700 feet deep.
24	Generally speaking.
25	Thatic Plant 6 So you have a feel

1.	Bethpage RAB - 4/14/04 - First Iteration
2	for what the numbers are.
3	The shallow well is about 200 parts
4	the deeper well, there, really nothing in it, and if
5	anything, it is one or two parts.
6	Plant 5 I mentioned earlier, has
7	nothing in it. Maybe the clay is confining it, but
8	who knows. We have more than enough there to handle
9	virtually anything that comes by, at least we would
10	expect.
11	Plant 4, similarly, has contaminants
12	in it now to six, but they are relatively low. When
13	I say "low", like in the teens. We can handle in
14	600 down to non detect. The teens, there snow
15	issue, no problem.
16	Let me talk a moment or two about
17	having testing. Besides have an engineering company and we
18	do the engineering, we also have long done the
19	laboratory analytical work for the Bethpage Water
20	District. So I'm familiar with the programs of what
21	goes on analytically. Each of these wells, and I'll
22	focus in on the kind of Grumman/Navy related items.

23

24

25

On volatiles on any of these plants we sample the

treated water, once a month. So it is a routine

raw water, the water out of the well, and the

1	Bethpage RAB - 4/14/04 - First Iteration
2	monthly test. And we do that for the volatile
3	organics. And just so people are aware, when you're
4	running samples from wells that are this deep,
5	things don't jump and change in major ways. You
6	will notice trends over time. So the monthly
7	sampling frequency is more than adequate to deal
8	with are you there looking at it often enough.
9	The testing that you do for these
10	volatile organic compound, *trichloroethylene, the
11	treatment, and all the kinds of thing you've seen
12	and talked about, limited detection is half a part
13	per billion. The drinking water standard is five.
14	You're considerably away from where the drinking
15	water standard is.
16	We also routinely do all of these
17	wells for heavy metals even though the probability
18	of any of that thing getting that far away that deep
19	down in these wells, is highly remote. But these
20	wells are all routinely sampled for the heavy
21	metals.
22	Probably even more remote but
23	nevertheless part of what is done routinely not at

24

7	Betnpage RAB - 4/14/04 - First Iteration
2	scans there's oodles of data for pesticide in the
3	wells and
4	CO-CHAIR McBRIDE: Never found
5	anything.
6	MR. MOLLOY: Never found anything and
7	the probability of finding anything, is way, I don't
8	think you'll ever find it unless somehow another
9	water was coming down from the surface and there was
10	a problem with the well construction.
11	MR. SCHARF: The state health
12	requires those tests at your discretion to insure
13	potable water.
14	MR. MOLLOY: There is routine
15	requirements and Nassau County, Suffolk County is
16	fairly similar, the testing is probably more intense
17	than you'll find anywhere. There is a good pattern
18	of testing. In addition to having the district
19	testing, a New York State approved laboratory for
20	these tests, the county health department also comes
21	out here and spots and does their own testing so
22	there is other spot tests that go on and the data
23	from us and is consistent.
24	I wanted to give you a little flavor
25	for where the numbers are. And the water that is

1	Bethpage RAB - 4/14/04 - First Iteration
2	going out to the system is, you know, crystal, it is
3	excellent. There are no issues at all with the
4	water that is being delivered to the customers.
5	With respect to the treatment system
6	again, it is a count to count PAC tower. It is
7	simple device. All you do is you have a cylindrical
8	tower typically 10 feet in diameter, it has a
9	packed media **backed *metio (meter?) In it. Very simple. It
10	looks like a wiffle ball for want of a better
11	description, that your kid will play with. It is a
12	piece of plastic that allows water to cascade down
13	and you have a film that develops over the plastic.
14	When I say a film, the water kind of coats the
15	surface and it is trickling down this huge tower and
16	it will have a bed of this stuff probably somewhere
17	between 30 and 40 feet deep. So water comes in at
18	the top, the typical well is about 1,200 gallons a
19	minute and it will be spread out over the top of
20	this tower, and it will trickle down, cascading all
21	the way down to the bottom. As the water is going
22	down, air from the outside is going up,
23	counter-current, in the opposite direction as the
24	water. So physically and mechanically the device
25	that is used and the principles of the chemistry are

1	Bethpage RAB - 4/14/04 - First Iteration
2	very well-known. They are direct and unchanging.
3	It is unlike carbon, which is used in other places,
4	that has a life, the bed gets absorbed and you have
5	to take the bed off-line and regenerate the bed.
6	The treatment device here is simple, straightforward
7	and works very well and is extremely predictable,
8	and reliable.
9	The district's water sites all have
10	emergency power, so you know, if LIPA is down,
1.1	KeySpan is down, no matter who is down, the district
12	can run its own emergency power on any one of these
13	well sites. And it is adequate to power with the
14	need to run. And they have self-contained power so
<b>1</b> 5	they are not relying on someone else for what they
16	need it power their emergency equipment.
L7	The operation, as I said from a
18	treatment point of view, is rather simple and
L9	straightforward. But it does depend upon a few
20	essential things. You don't want to run the water
21	through the tower unless air is running up the other
22	way. And that is a concern. So there is a control,
23	a safety that ensures that the first thing that goes
24	on when the system says I need a well. And

25

there's a matrix board, and there's a program to say

1	Bethpage RAB - 4/14/04 - First Iteration
2	what goes on, based on need in terms of the system.
3	But when a demand goes on for a well, say say at
4	Plant 5 if, we need Plant 5. You know the first
5	thing that goes is if we need five, the well five
6	cannot start unless the blower motor is energized.
7	So the first thing that happens is the blower motor
8	is energized so the well can not start until the
9	blower is on. The initial phase of any operation
10	when you start off a well, is the first thing that
11	happens, it has a blow-off cycle so the first thing
12	it does is go back into the ground before it goes
13	into the system. So that is one level of safety.
14	You can't run the well unless the blower is on.
15	There is a second safety. When the
16	blower is running, there's there's a switch to
17	make sure that actually the blower is pushing air
18	out. Because, you know, blowers run on pulleys that
19	are driven by a motor. And if that breaks, you can
20	have power to the motor and the motor is spinning
21	but no again, there is no air moving. So there
22	is a second safety that relates to that.
23	Actually, there is a third safety not
24	only do you have you to have the motor on for the

blower and have you to have air coming out of the

1	Bethpage RAB - 4/14/04 - First Iteration
2	blower housing but you also have to have pressure.
3	Because in between the blower and the tower, it is
4	manifolded and it is possible because that is not a
5	hard pipe manifold, it is a soft pipe manifold, that
6	if that ripped or disconnected, you could actually
7	have the blower running and through a rip or a tear,
8	the air could be moving outside. So you want to
9	make sure not only do you have all of that so
10	each of these have triple safeties. All of the
11	plant sites, are visited a couple of times a day by
12	the staff. They end up having a tower where they go
13	around checking their own operations, just to make
14	sure things are operating and functioning properly.
15	I think that pretty much summarizes the routine
16	operation of it. There are other things that happen
17	at the plant. I'm not sure your question addressed
18	this, but in when you run any plant there are
19	other things that are going on. Any water district
20	supplies chemicals. You add chemicals to the water,
21	the water comes up from the ground acidic, so you
22	add caustic to adjust the pH and when you add in
23	chemicals we you also have safeties that are
24	related to this. Here, you end up having an
25	analagous system of multiple safeties. In this

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Bethpage RAB - 4/14/04 - First Iteration

case, in order for the chemical pump to go on, it

3 can't be -- you can't energize the chemical pump

unless the well pump is on, because you don't want

5 to be pumping just chemical into the system. You

6 also, in order for the chemical pump -- to go, you

also have a pressure sensor at the well. So there

has to be pressure at the well head in order for the

chemical to go on. There's a flow meter. So there

10 are multiple safeties.

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In the case of caustic, there is also an analyzer and if the analyzer says the pH is out of range, it will shut off the pump. So you can't pump. So there are multiple levels of safety that is related to all the elements of the operation, and that pretty much summarizes the story of how one deals with these kind of issues. Again, going back to a broad general point of view, your district here in Bethpage, as with many others, if you want to call it a zero tolerance policy. They pull this stuff off-line and deal with it. They don't wait to find someone that has the money or wait four years to argue with someone you got to pay

for something. They deal with it -- their first

level of responsibility is public health and safety.

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Bethpage RAB - 4/14/04 - First Iteration
 2
         So they'll deal with a situation and then go after
 3
         someone to pay for it. And the dollars you're
         talking about here, I guess the dollar value is for
         Bethpage, I'll just put out a very round number, I'm
 6
         going to say has probably been about 9 million
         dollars of district related expenses for building
 7
         these facilities. Which have been either directly
 9
         funded at one time, the Navy or Grumman, which is
         kind of a time payment with all sorts of guarantees
10
11
         in case they disappear somewhere along the line, but
         that is pretty much the story and I'm available to
12
13
         answer any questions you may have.
14
                        A MAN: The only thing you're
         treating for is VOCs not for heavy metals.
15
16
                        MR. MOLLOY:
                                      Okay, it is not an
         issue at all. We sample for heavy metals but I've
17
         never seen heavy metals as an issue in a public
18
19
         water supply well. The only metals that have ever
20
         been an issue for treatment in a public supply well,
21
         has been, on Long Island, has been iron. And we've
22
         designed -- anywhere on the South Shore of the
23
         Island. We've done it for Long Island Water Corp.,
24
         New York Water Service, we've done it for South
         Farmingdale. When you have -- but that's all
25
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1	Bethpage RAB - 4/14/04 - First Iteration
2	naturally occurring iron that's in the aquifer. And
3	iron is not a heavy metal, but it is a metal
4	nevertheless and it is heavy when you put it all
5	together in one place, it's like coal, it gums up
6	your system.
7	MR. SCHARF: What about manganese?
8	MR. MOLLOY: Manganese is another
9	naturally occurring metal that feeds to be treated
10	in certain spots. It can be a problem when you're
11	running water through that through a PAC tower. We
12	have one in place in Bethpage, where we treat for
13	both iron removal and air stripping.
14	MR. GRELLO: What kind of cleaning is
15	done to these towers once they are off-line.
16	MR. MOLLOY: Because of the nature of
17	the raw water, here, as I think you probably all
18	know, you know, the water here on Long Island is
19	super, super soft. There is very little in it. It
20	leaves little to no deposits on it. It really has
21	been a non-issue. I designed a plant in 1982. In
22	Hicksville, which was like one of the first ones
23	around, which was a stripper plant. I think we
24	changed the media after 20 years. Something like
25	that.

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1	bechpage RAB - 4/14/04 - First Iteration
2	MR. GRELLO: Why did you change it?
3	MR. MOLLOY: After 20 years, it had
4	like a little bit of kind of iron on it?
5	MR. GRELLO: What about bacteria
6	growth inside.
7	MR. MOLLOY: Bacteria growth is a
8	consideration. When you're moving that much air
9	around and you have that much moving? It is
10	certainly a consideration. And those plants are all
11	routinely sampled for bacteria, that is a standard.
12	MR. GRELLO: Monthly, weekly,
13	monthly.
14	MR. MOLLOY: Actually your water
15	distribution system is done probably generally
16	speaking two days a week there is somebody out there
17	in the water system going to we generally go two
18	places that don't deal with food and we stay away
19	from gas stations. You do a stationery store or dry
20	good store where actually the location is not what
21	is causing the problem that fairly when you pick
22	up locations to test water in a water system, you
23	like to go to someplace that is going to be open
24	during the week, so you can get access to it, a
25	place where people aren't going to be bothered or

1	Bethpage RAB - 4/14/04 - First Iteration
2	annoyed if you want to go back to resample it. So
3	generally there is a network of locations that you
4	would have around the community to do samples.
5	There is also routine sampling that is done at the
6	well for bacteria. And there's time series bacteria
7	samples, that you do on the well, raw water and the
8	treated water. Bethpage is a little different than
9	a lot of districts in that it has a chlorination
10	waiver? So it does not actively chlorinate? But
11	it does have an emergency chlorination facility in
12	the event that it needed to.

There are certain things that are incorporated in the design of these plants to try to minimize getting mother nature into the systems? The air before it goes in, will go through two sets of filters. The air is pre-filtered. I remember trying to figure out how to deal with this 20 years ago. You end up having a roughing filter then you have a food grade filter equivalent to what you would have in a food processing plant. So you double filter the air before it goes into the system. Most of these places we avoid by having appropriate mowing strips and not having grass in and around where the blower intakes are, because all

Bethpage RAB - 4/14/04 - First Iteration 2 of a sudden the landscapers come around. It sounds silly, but these guys come around, running through the area with their mowers, kicking up grass and soil. And so we do things about how we control the immediate area surrounding it, to prevent that kind 7 of thing. If you take a look at the top of the towers, you'll notice that they have, they go straight up and then at the top where the air comes 10 out, there's like a hood. 11 A WOMAN: \*Cupola. 12 MR. MOLLOY: What we try to do to it, 13 is prevent wind driven rain from getting in there. 14

MR. MOLLOY: What we try to do to it, is prevent wind driven rain from getting in there. And things like birds like to hang out on top and if you get rain and water on them where they are, you don't want to have anything dripping back down. So there's little details that you have to kind of think of when you go through this.

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A MAN: What are your chances of digging a new well? If you do that, you poke a hole in the ground, you're going to get contaminants.

MR. MOLLOY: It depends on where you go. We have a well right now, and I'm maybe two or three years out of the direct answer to your question, but the community is fairly stable in

1	Bethpage RAB - 4/14/04 - First Iteration
2	size. I don't see any change in demand. The
3	district has a pumpage cap. I don't know of any
4	real reason why necessarily they might need
5	immediately a new well. But we do have a location
6	right by the park which seems to be away from but
7	the odds are, anywhere in the gut of the Island,
8	from actually you can go from Queens, because the
9	old Jamaica water supply wells, anywhere, and you
10	can follow a line from there and go all the way
11	east, any of the districts on either side of that
12	line, the spine, the major recharge area, most of
13	them have or will have treatment for this kind of
14	stuff.
15	A MAN: Say you get a broken pipe
16	near one of those tanks out there, because the
17	pipes, especially the main lines, are only four feet
18	deep? What is stopping anything from getting into
19	those lines and how would you clean it out and how
20	do you clean it out?
21	A MAN: You have the contaminants
22	right there. After it has been treated, it is going
23	up to those big tanks.
24	MR. MOLLOY: Well, you know, first of

all in any monitoring that we do, you're analyzing

Bethpage RAB - 4/14/04 - First Iteration

- 2 not just with the wells but the distribution system.
- 3 Whenever you have a main break there's procedures.
- 4 Main breaks happen all the time. Typical, as you
- 5 pointed out, typical mains are four and a half feet
- 6 deep. There are isolation procedures, repair
- 7 procedures, disinfection procedures and blow-off
- 8 procedures before you bring it on line. When a main
- 9 breaks, water is moving in the other direction. The
- 10 problem comes in when you're bringing it back, when
- 11 you shut it down and you're bringing it back on line
- and there are protocols to do that, that they have.
- Because before we ever talked about this other
- 14 stuff.
- A MAN: What are the protocols.
- MR. MOLLOY: I don't know. You know,
- it is similar to to what I just outlined to you. I
- 18 would have to talk to the guys that are doing it to
- 19 be able to detail it. But there are protocols that
- involve shut down, blow off, disinfection. Bacteria
- is all around us. Right now, if you took a swab,
- you'd find it here, you'd fine it there. You'd fine
- it every where. When you analyze bacteria in water,
- 24 most of it is soil origin. Typically, time
- immemorial, when you have main breaks, you have to

1,	Bethpage RAB - 4/14/04 - First Iteration
2	deal with issues of preventing bacteria, and you us
3	the same kind of protocols to do that. You swab
4	with chlorine and other stuff, too. But you try to
5	minimize stuff getting in the lines.
6	A MAN: Do you have a diagram of all
7	the cleaning systems that you implemented. Do you
8	have an actual exact diagram when we have to show
9	the people where we can actually say, this is the
10	system that they have. This is the protocol and
11	everything.
12	MR. MOLLOY: That is not a problem.
13	I can give you that. I can give you a reduced set
14	of drawings for Plant 5, which will give you a good
15	idea of what it looks like. I'll give you a real
16	set of drawings. If you want a schematic, I can
17	give you a schematic, as well. I'll take care of
18	that for you. I'll get it back through the
19	committee somehow or through you somehow, Jim
20	Colter.
21	Any other questions?
22	MR. COLTER: Safe to say, John,
23	you're speaking on behalf of Bethpage. H2M also
24	does the engineering for south Farmingdale.

MR. MOLLOY: Yes, we are the

-	bechpage RAB - 4/14/04 - First Iteration
2	engineers and have been for South Farmingdale,
3	actually was our first water account, and I think it
4	dates back close to 60 years.
5	South Farmingdale is a client of ours
6	and at tomorrow's meeting, we will not one of our
7	guys will not only be representing Bethpage, but we
8	represent also South Farmingdale and New York Water
9	Service, which was another one, there. At least we
10	represent them in this matter and we've done some
11	plant work for them.
12	MR. COLTER: For all the water
13	supplies that we are concerned with, the procedures
14	are basically the same, is that safe to say?
15	MR. MOLLOY: For treatment? Yes.
16	MR. SCHARF: You mentioned carbon.
17	There is a dichotomy, if you go about Long Island to
18	different districts, some districts prefer the
19	carbon approach, others prefer the air stripper
20	approach. Both systems can produce water that is
21	nondetect, potable and safe to drink. H2M is
22	designing a carbon system right now for East
23	Farmingdale.
24	MR. MOLLOY: We've done both. There
) E	and contain analization 1:66

1	Bethpage RAB - 4/14/04 - First Iteration
2	certain time differences. I can get a carbon plant
3	on line quicker, you know East Farmingdale has some
4	issues. They need to get water very quick, I can
5	get it on line.
6	MR. SCHARF: Upfront, it is cheaper,
7	but in the long run, O & M can be more expensive.
8	MR. MOLLOY: There are other places
9	where you have volatile organics that might not lend
10	themselves as much to air stripping. You know, they
11	are volatile but they don't work as well. So we've
12	used both.
13	MR. SCHARF: Based on the design
14	criteria, each has its good and bad.
15	MR. MOLLOY: Right. It is more
16	expensive to build an air stripping plant, but it is
17	less expensive on an O & M.
18	In that one particular sense, it's
19	simpler because what will happen with a carbon
20	system is you'll have adsorption in that a certain
21	point you'll get breakthrough where stuff is coming
22	in one end and not going out the other end, not that
23	that can't be overcome and dealt with. But you need
2.4	to know what kind of loading you're putting on it

25

Air stripping is much simpler that way. As long as

1		Bethpage RAB - 4/14/04 - First Iteration
2 .		you're running the air through it, it will do what
3		it is intended to do.
4		MR. SCHARF: I wanted to make the
5		statement.
6		MR. MOLLOY: I wasn't knocking carbon.
7		MR. SCHARF: You may live in an area
8	-	that has an impacted well and using carbon for a
9		design purpose is a great system.
10		MR. MOLLOY: Carbon is suitable.
11		MR. GRELLO: There's more of a chance
12		bacteria and breakthrough with the charcoal systems.
13		MR. MOLLOY: Each system in terms of
14		bacteria, you got to watch for different reasons,
15		but, yeah.
16		MR. COLTER: Any more questions for
17		John?
18		MR. MANGANO: I have a request. The
19		questions and answers that took place tonight were
20		excellent I thought. This is a common, common
21		question for the last nine years. How do I know my
22		drinking water is safe. If the water district would
23		be willing to produce a brochure or pamphlet
24		outlining exactly what you said tonight, it would be

25

helpful to send that to people, so they get an

1	Bethpage RAB - 4/14/04 - First Iteration
2	understanding there's contamination in here, but in
3	your glass of water at home, there it isn't. You
4	got to go through those steps tonight.
5	MR. SCHARF: The county health
6	department put out this brochure.
7	CO-CHAIR McBRIDE: John, in all
8	honesty, I've had the same questions asked and
9	it's a lot of people don't know what's going on.
10	People ask Jim, do you drink the water at home.
11	You have bottle of water, it is just
12	because I have a bottle of water, I turn my tap on
13	and drink.
14	MR. GRELLO: They also need to know
15	the difference between air sparge and the charcoal
16	media method, so there's no less chance of
17	contamination with the air sparge than with the
18	charcoal medium, and also the disclaimer that the
19	bottled water you drink goes through less testing
20	than the water going through your tap.
21	MR. SCHARF: Don't say likely to be
22	impacted with charcoal. There's two carbon tanks, a
23	primary and a secondary. They test the primary.
24	Once there is breakthrough, they'll change it.
25	MR. MOLLOY: Carbon is also a safe,

Bethpage RAB - 4/14/04 - First Iteration
wonderful unit for design purposes.

- MR. MOLLOY: I will take that back.
- 4 MR. MANGANO: If I could help, we can
- 5 talk to the commissioner.
- 6 MR. MOLLOY: You twist one arm, I'll
- 7 twist the other.

it up.

- A MAN: This is a system in place if
  heavy metals gets to that depth, can you just start
- 11 A MAN: Let me mention one other
- 12 thing while you bring it up. T that somewhere along
- the line, there was a map that went up there, that
- 14 you can't read. But if you looked at it, you saw a
- lot of dots all over the place. There is I don't
- know how many wells. I've lost count at this point.
- But there is a routine program for groundwater
- monitoring. Part of it is to understand the plume
- bed, it's depth, its breadth and what is in it, we
- see that data routinely. There is a full, I think
- 21 you mentioned that earlier. That gives us a good
- 22 idea what is coming our way. I don't at all expect
- to see heavy metals as an issue.
- You know, they can be treated, just
- 25 to answer your direct question. I couldn't treat

Т	Bethpage RAB - 4/14/04 - First Iteration
2	them today? But I don't expect I don't expect
3	at all to see it. And if there were any wild reason
4	to see it, I would see it somewhere else first.
5	Just one other thing on the data
6	that Arcadis, developed, and they send it out to
7	their lab, the water district takes split samples of
8	those same groundwater. And the data is consistent
9	and it has been for years. But just so that the
10	district can say rightfully to their own customers,
11	that, listen, we are watching over that, as well.
12	Not that we expect anything. We see the data
13	ourselves.
14	A MAN: Nassau County DPW also has
15	test wells.
16	MR. MOLLOY: Nassau County DPW
17	has yeah, most of their wells are relatively
18	shallow. And it is more for understanding the water
19	table and for hydraulics and modeling. This area is
20	fairly well defined by a model. And at this point,
21	it has been worked on, massaged and you know, with
22	ten years' worth of data, by this point it's a very
23	well-tweaked model. So they do have it fairly well
24	represented. I'm not sure these wells that are
25	in this program they are at depth too, so you can

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               Bethpage RAB - 4/14/04 - First Iteration
 2
         really get a good idea of what is going on with the
 3
         aquifer system. It is very well-known at this
         point.
 5
                        CO-CHAIR McBRIDE:
                                           Thank you for your
         time.
 7
                        MR. COLTER: Thanks, John.
 8
         appreciate it.
 9
                        MR. GRELLO: Before we get to our
10
         last agenda item, I wanted to expand on something
11
         that John alluded to earlier in his presentation.
12
                        As well as Dave. We talked about
13
         community workshop and why do we have to do things
14
         in places where we are planning to do them. Believe
15
         me, the Navy doesn't want to go out into the
16
         community and disrupt them with this GM38 remedy.
17
         As you heard from Steve, the DEC is insistent upon
18
         it and Bethpage Water District has been insistent
19
         upon it, for years. Yeah, it is an impact. It is
20
         going to be an eyesore for a while till we finish
21
         the construction, but it is something that is needed
22
         and is being pushed by your local constituents, so
23
         that is going to be a key component. We are not out
         here because we want to disrupt the community. We
24
25
         are out here because it is the right thing to do and
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we need to get it done and your representatives are

looking over our shoulders so...

MR. MANGANO: I would like to add what you want to do is explain it to people so people understand what's going on. Workshops are important. When people understand things, they are more accepting. No one wants to be inconvenienced, to be inconvenienced and not understand it is really --

MR. COLTER: Our posters will step you through the process, a lot of what you heard tonight will be in a poster. A lot of different people will explain the different aspects. Hopefully, Bethpage water will be there to back up the need for the system. Hopefully the DEC will be here to back up the need and we'll try to answer all the questions, and give them a little more comfort, like you suggested.

CO-CHAIR McBRIDE: Jim, at the last RAB that I attended there was an actual section of the Navy that comes out and does these brochures with health people? Are you planning to use them. They made a couple of good presentations out there. They were describing their function as similar to

1	Bethpage RAB - 4/14/04 - First Iteration
2	what you're discussing.
3	MR. COLTER: As far as the workshop.
4	Oh, NEHC. Naval Environmental Health
5	Center? Probably not. We had somebody here way in
6	the beginning, explaining toxicology in layman's
7	terms, they try to explain risk assessment in
8	layman's terms. They are very good with risk
9	communication. We'll take a look at it.
10	CO-CHAIR McBRIDE: You may want to
11	consider it.
12	MR. COLTER: We'll have to see what
13	we are presenting and if it is a risk type of
14	presentation, maybe we'll use their expertise. That
15	is a good point.
16	All right. Quickly, the last thing,
17	again, not on the agenda, but it has been something
18	that has been ongoing, is the TAPP review for the
19	dry well report. And Gary Miller and Paul Lageraaen
20	are here again from H2M, your independent
21	consultants.
22	Gary, give us updates on where you're
23	at.
24	MR. MILLER: As you're aware H2M was

retained by the RAB to conduct an independent review

1	Bethpage RAB - 4/14/04 - First Iteration
2	of work done by another consultant on behalf of
3	Northrop Grumman Corporation. Specifically it deals
4	with two former storm water drywells associated with
5	the old Plant 3. When we were last here in
6	November, we presented our executive summary. Since
7	that time we have finalized our report. We had an
8	opportunity to meet recently with the RAB and go
9	over the report. They had some questions. We've
10	made some revisions and we have final copies of the
11	report.
12	Without boring you with a lot of the
13	details, we went through back in November, the two
14	drywells in question were part of a larger
15	investigation when Grumman Northrop Grumman was
16	shutting down the plant, they investigated all of
17	the various leaching pools drywells and subsurface
18	drain structures associated with the plant. And two
19	of these drainage structures were identified as
20	having been impacted with PCBs. As a result of that
21	vision, a remedial effort was undertaken and the
22	drywells, the two drywells, the soils beneath the
23	drywells and adjacent to the two wells were
24	excavated to a depth of 28 feet. As is normally

done, when the excavation was complete, end point

1	Bethpage RAB - 4/14/04 - First Iteration
2	samples were taken at the bottom of the excavations
3	to determine whether or not all the contamination
4	had been removed. As it turns out there were soils
5	at the bottom of the excavations that contained PCE
6	that were in excess of the DEC's recommended soil
7	clean-up objective of 10 parts per million.
8	As a result of those findings,
9	Northrop Grumman hired Ru, to conduct an
LO	investigation to look at the subsurface soil
11	conditions and to examine potential impacts to
12	groundwater.
13	H2M was asked to look at those
L4	reports, to determine whether a thorough job was
15	done, whether their conclusions were accurate, and
<b>L</b> 6	whether some of their recommendations were on
L7	target.
18	The first thing we looked at was the
L9	soil investigation program. Ru conducted 17 soil
20	borings adjacent to the two drywells and radiating
21	outward from the two drywells they went down to
22	depths of 68 feet.
23	A MAN: The deepest, yet.
24	MR. MILLER: About 54 feet in some
25	places, as the borings were advanced, soil samples

1	Bethpage RAB - 4/14/04 - First Iteration
2	were collected at two foot intervals and analyzed
3	for PCBs.
4	As a result of that investigation,
5	they did identify subsurface soils with PCB
6	concentrations in excess of 10 parts per million.
7	Soil cleanup was recommended. The majority of those
8	soils were at depths greater than 14 feet. The
9	impacted soils extended radially outwards as far as

30 feet from the center of the dry well.

In looking at all the data, our opinion was that they did a very thorough and comprehensive job in looking at soils. They were successful in delineating the vertical extent of the contamination, as well as the horizontal extent of contamination.

The next thing Ru did, was they installed four of the monitoring wells to evaluate groundwater quality. At each dry well, a monitoring well is installed immediately adjacent to the dry well and then they installed a second monitoring well at each dry well, 75 feet downgradient of each dry well. Once the wells were installed and developed, groundwater samples were collected and analyzed. Ru analyzed the samples using -- two

1	Bethpage RAB - 4/14/04 - First Iteration
2	ways:
3	They analyze filtered and unfiltered
4	samples. The rationale for doing filtered and
5	unfiltered samples is often contaminants can bind
. 6	themselves to fine silts that will find their way
7	into the water sample and bias the results on the
8	high side. What Ru found was that they were
9	finding PCBs in all of the unfiltered samples and
10	the PCB concentrations ranged from 1.2 to 12 parts
11	per billion of the class GA water. The quality
12	standard for PCBs, is .09 parts per billion. So the
13	unfiltered samples indicated that there was an
14	impact. All but one of the filtered samples came up
15	non-detect.
16	From downgradient, it showed
17	1.2 2.1 parts per billion. Ru went back and took
18	a second sample to confirm that. And they did
19	confirm they found another 1.5 parts per billion of
20	PCBs. They confirmed that there were relative minor
21	impacts to groundwater quality. In looking at their
22	groundwater study, in comparison to the soil study,
23	we felt that the groundwater study was not quite as
24	comprehensive. Although we didn't disagree with

25

Ru's findings and conclusions, it is felt more could

1	Bethpage RAB - 4/14/04 - First Iteration
2	have been done, and in fact we have recommended that
3	a little bit more be done. Specifically, we have
4	recommended that monitoring wells or temporary well
5	points be installed upgradient of the drywells. The
6	purpose for that would be to confirm that the
7	drywells are in fact the source of the PCBs that we
8	are seeing in the groundwater. And there aren't any
9	upgradient sources that we don't know about.
LO ·	The second thing we looked at, as
11	John mentioned and as we've discussed before,
12	there's a wide network of monitoring wells here on
13	the site, that are looked at routinely, once a
14	quarter. When we looked at some of that data, we
15	discovered PCBs were not being analyzed in those
16	groundwater samples. So we've also recommended that
17	in selecting existing monitoring wells on the site,
18	that are located downgradient of these two drywells,
19	and that PCBs be added to the standard list of
20	chemicals that are looked at on a quarterly and
21	routine basis.
22	After Ru completed their site
23	investigation, of site characteristics, they
24	conducted what is known as a feasibility study,
25	which would examine the various remedial

1		Bethpage RAB - 4/14/04 - First Iteration
2	. •	alternatives for dealing with the PCBs. They had
3		conducted an exposure assessment between the site
4.		characterization and the feasibility study, and the
5		exposure assessment concluded that there really was
6		zero risk in terms of the PCBs, the low level PCBs
7		that were detected in groundwater, because there was
8		not a complete exposure pathway, because of the
9		system that Northrop Grumman has in place, here, to
10		capture and treat the contaminated plume, they felt
11		there really was no potential for PCBs reaching the
12		public water supply.
13		The exposure assessment similarly
14		found that with regards to soils, there was very
15.		little in the way of risk. The soils with the
L6 .		highest concentrations of PCBs are down below 14
L7		feet. We did see some low concentrations, again,
L8		that one to 10 parts per million range in shallow
L9		soil samples, for the most part the higher
20		concentrations were down below 14 feet. The
21		feasibility study looked at number of remedial
22		operations. One option that they looked at that we
23		always look at, is a no action alternative. That is
24		the baseline, for comparison purposes. Throughout

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their report, they talked about the no action

1	Bethpage RAB - 4/14/04 - First Iteration
2	alternative. Really that is a little bit of a
3	misnomer. It is the no further action alternative
4	in this case, because a remedial action was taken
5	when the PCBs were first taken and the soils beneath
6	the dry wells were excavated.
7	Ru Associates, in doing the
8	feasibility study and from our review of the
9	feasibility study, we feel they did a thorough and
10	comprehensive job. We explored the various
11	technologies they looked at. We examined whether
12	there were any new technologies that were out there
13	that were not examined. We didn't find any. The
14	technologies that they felt had some merit were the
15	no action alternative, *thermal desorption, in situ
16	*thermal desporption and excavation and disposal
17	off-site. Those alternatives were further evaluated
18	using the standard criteria dictated by EPA and the
19	DEC. And as a result of that, evaluation, the no
20	action or no further action alternative was the
21	selected remedy.
22	Again, the no action or no further
23	action alternative, was tied in to both engineering

Again, the no action or no further action alternative, was tied in to both engineering and institutional controls. By "engineering controls", what I mean, is Ru looked at the fact

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1	Bethpage RAB - 4/14/04 - First Iteration
2	that there is right now two feet of clean soil that
3	covers the upper surface that there that the
4	asphalt around one of the dry wells will be repaired
5	by the cap. The other dry well. Where asphalt
6	doesn't exist, asphalt will be placed to provide a
7	cap. Those, are what we call engineering controls.
8 `	They also discussed institutional controls in the
9	form of a deed restriction. A deed restriction
10	would prohibit the deeper subsurface soils from
11	being disturbed by future development or
12	construction on the property.
13	Again, in looking at the feasibility
14	study, H2M came to similar conclusions that the no
15	further action alternative made sense. In
16	discussing these results with the restoration
17	advisory board, there were some concerns raised,
1.8	regarding environmental easements which include both
L9	engineering and institutional controls.
20	Environmental easements are used as sites where it
21	is impractical to remove all of the contamination.
22	In many cases engineering or institutional controls
23	will be adequately protective of human health. And
24	that was the case here.
25	The Restoration Advisory Board's

1	Bethpage RAB - 4/14/04 - First Iteration
2	concerns with regard to environmental easements, is
3	that there can be some problems. There was
4	legislation passed by signed into law by the
5	governor that dealt with environmental easement, by
6	law, now, environmental easements, must be in place
7	with the local municipality, in this case it would
8	be the Town of Oyster Bay and Nassau County. And if
9	a developer or a property owner proposed to do
10	anything with that property that would affect the
11	land use or the development of that property, the
12	local municipality, or the agency that would review
13	that application, and have the jurisdiction to
1.4	approve that application, would have to forward that
15	application up to Albany to the New York State DEC.
16	The New York State DEC would review that application
17	to see whether it was consistent with that
18	environmental easement.
19	The problem that was discussed with
20	the restoration advisory board, was the fact that
21	most deed restrictions are put on file with the
22	county clerk or the town clerk. But when you go to
23	get a building permit or a change of land use, that
24	application goes to the planning department or the

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building department. And often the various entities

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1	Bethpage RAB - 4/14/04 - First Iteration
2	within the government, they don't talk to one
3.	another. So the only concern we raised and we would
4	hope that Nassau County and the Town of Oyster Bay
5	develop and establish a mechanism whereby when an
6	environmental easement in the form of a deed
7	restriction is placed on a property, that that
8	information is disseminated to those departments
9	that have the jurisdiction to issue the restriction
10	or land permits.
11	To summarize, Ru did a good job in
12	characterizing the soils. They did a good job in
13	characterizing the groundwater. However, we felt
14	there should be more upgradient sampling done. The
<b>1</b> 5	drywells are the only source of PCBs in the water.
16	And let's add PCBs to the normal test parameters
17	that are looked at, and not monitoring wells. I
18	don't know how many monitoring wells you sample on
19	quarterly basis. I think we identified a half
20	dozen, six or seven.
21	MR. LAGERAAEN: Three wells at two
22	depths.
23	MR. MILLER: In those six wells, we've
24	recommended PCBs be added to the list of analytes.
25	With regards to the selection of the

1	Bethpage RAB - 4/14/04 - First Iteration
2	no further action alternatives with deed
3	restrictions, we felt that given the planned future
4	use of this property for commercial and industrial
5	use, it was consistent with that future plan for the
6	property, and we felt that that would be protective
7	to human health. So we've issued our ROD.
8	MR. LAGERAAEN: We do have some extra
9	copies here. Is there anyone on the committee that
1,0	hasn't gotten a copy, we have them here.
11	MR. GRELLO: The Navy is receiving a
12	copy, correct.
13	CO-CHAIR McBRIDE: Since we have the
14	final report tonight, we'd like to read through it
15	tonight. We'll get back to you with questions.
16	MR. MILLER: After you'd read the
17	report, digested the report, if you have questions,
18	get back to us, we'll answer questions. If we need
19	to amend or expand any sections of the report.
20	MR. GRELLO: I have comments for the
21	Navy already. Institutional controls do not work.
22	I have a report here from former
23	State Comptroller McCall. I'll read a couple of
24	paragraphs to you. Do institutional controls work?
25	Not really An audit of the Superfund program

1	Bethpage RAB - 4/14/04 - First Iteration
2	performed by controller H. McCall showed that in
3	many cases institutional controls failed. In part
4	of the audit, the DEC provided a controller with 28
5	sites that required deed restrictions. The
6	controller's office found five additional sites
7	requiring deed restrictions, which the DEC did not
8	have filed. Also, when auditors checked county
9	clerks' offices to see if deed restrictions were in
10	place, auditors cannot find four of the six deed
11	restrictions. And one of the deed restrictions was
12	not filed at all. For deed restrictions to work,
13	they must be easily accessible by the public that
14	they are meant to protect. This report calls into
15	question the effectiveness of institutional controls
16	to protect people from dangerous toxic exposure.
17	This from Carl McCall, former state comptroller.
18	This report, is from the
19	Environmental Law Institute in Washington, D.C. I'm
20	going to read some areas I highlighted, okay.
21	For the protection of groundwater,
22	pavement covers over clean soil and structures
23	located above prevent human exposure. To prevent
24	contact with contaminants, different types of
25	barriers are needed depending upon which exposed

1	Bethpage RAB - 4/14/04 - First Iteration
2	pathways they are intended to block.
3	Zoning notices, warning easements
4	restrict the covenants, restriction of uses specific
5	resource, such soil and groundwater withholding
6	insurance, certain uses of land, these are all
7	different types of controls. Thus institutional
8	controls have a long history which include both
9	successes and failures. Institutional controls,
10	like most legal tools, operate by inducing humans to
11	modify their behavior. Managing human behavior is
12	an extremely difficult task. None of the
13	institutional controls currently in use or under
14	consideration for future use is fool-proof.
15	Institution controls have the
16	potential to be either over or under-protective.
17	But the adage out of sight out of
18	mind applies to ground fuel sites. The residual
19	risk likely will be buried by asphalt or buildings
20	and therefore could be forgotten. Then the
21	slightest carelessness, forgetting to check a
22	record, not checking far enough back in time, or
23	loss of records or institutional memory, could lead
24	to future zoning boards to approve changes, allowing

25

a use that could expose people to substance."

1	Bethpage RAB - 4/14/04 - First Iteration
2	I could go through this and read to
3	you ten times more than I read. All this stuff
4	highlighted in blue all backs that up.
5	The reason why I'm so concerned about
6	these dry wells and the use of institutional
7	controls is the very fact that that Ru report, had
8	soil , SB1, soil boring one, at dry well 20-08.
9	PCBs were detected above RSCOs, recommended soil
10	cleanup objectives, at 19 milligrams & kilogram, at
11	four to six feet below grade, and between eleven and
12	41 MG/KGs, at depth 14 to 20 feet.
13	We keep hearing 14 feet. Okay, we
14	have four to six and 11 feet. Then at the
15	drywells. Now we go to drywell 34-07. Same Ru
16	report. Soils exceeding RSCE were encountered at
17	depth, from four to 54 feet. Both drywells contain
18	PCBs more than double the state TAGM for soil at
19	depth of four feet. Anything could happen.
20	A MAN: Any time you build a
21	building, you need a drywell, because you got a
22	parking lot, you're going to dig, you're going to
23	break the barrier. I don't care where you come
24	from, what you do, you're going to break it. That
25	is the hottom line

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1	Bethpage RAB - $4/14/04$ - First Iteration
2	MR. GRELLO: They put in a sign in
3	the parking lot, they dig the post down three or
4	four feet, they'll hit it.
5	A MAN: Your water, your pipes are
6	right in the ballpark.
7	MR. COLTER: For the most part, I'd
8	have to look at that. If they got a detection, one
9	detection, they're going to report that they have
10	detected PCBs at four feet. But that doesn't mean
11	there is a big slug of PCBs down there.
12	MR. GRELLO: It's in the Ru report
13	and it still exists.
14	MR. COLTER: I agree with the
15	institutional controls. We have come a long way.
16	Over the next decade knowing the shortfalls you've
17	just outlined and we have a group down in D. C. that
18	is tasked if we are going to use these institutional
19	controls, how are we going to guarantee.
20	MR. GRELLO: Who is going to
21	administer it?
22	MR. COLTER: There is a few different
23	programs that we are testing. We were testing one
24	in the state of Pennsylvania, setting up a trust
25	fund to pay the State of Pennsylvania to administer

1		Bethpage RAB - 4/14/04 - First Iteration
2	·	and check routinely these things. So it is a
3		problem and we are working at the.
4		A MAN: Especially with the sewer
5		system. Now we are dealing with a sewer system.
6		We're going down 20 feet with a sewer system.
7		MR. SCHARF: Before we even talk
8		about what we are or are not going to leave, there
9		is a ROD in place for OU1 for soil and PCBs. And if
10		there's we go back and review all of the data,
11		once we get into the design phase, which is coming
12	÷	up shortly, in fact I'm not going to handle that
13		project. If the Navy is going to recommend an
14		explanation something very deep and we leave that
15		PCB concentration because we can't get to it, they
16		had to do shoring down to 28 feet and even then it
17		was expensive to get that deep if there's a problems
18		a four neat when they do the shallow soils that is a
19		very good point, good point, at four feet you can
20		get that. It has to go. It is above the indicate
21		soil cleanup criteria.
22		MR. MANGANO: To put it in
23		perspective, while you're on that depth subject for
24		the property that's found in the FOST, what would be
25		the shallowest depth of contaminant that is being

1 .	Bethpage RAB - 4/14/04 - First Iteration
2	allowed? I ask this question, because really the
3	property is going to be redeveloped. There is goin
4	to be construction. We don't know what ultimately
5	it will be, but in the next several months, we may
6	have a better idea and my gut reaction is there is
7	going to be a lot of construction. What depths are
8	we at? Is the 28 feet to the lowest?
9	MR. COLTER: Well, if you look at
10	the Navy Environmental Baseline Survey, and we
11	talked about this at the meeting a couple of weeks
12	Plant ago, we have that big map of <del>Plane</del> 3, there are
13	various steps. Grumman went in and dug out a hole
14	to 18 feet and took twenty confirmation samples.
15	One confirmation sample came up above TAGM, not a
16	big deal. One out of 23 go to the DEC. And one ou
17	of the 20, 20 feet, 18 feet down, is not a risk.
18	Can we backfill? DEC says yes, backfill. We've
19	called those out in that plan. So there's various
20	steps. The plan began at a four-foot depth control
21	There's 200 AOCs that they dug.
22	A MAN: When you take the test, how
23	long before it comes back to you.
24	MR. COLTER: Two day turnaround, a

week turnaround.

1	Bethpage RAB - 4/14/04 - First Iteration
2	hoi€ A MAN: You dug a <del>hold</del> and it is
3	exposed so it is exposed to people.
4	MR. SCHARF: Just understand that DEC
5	oversaw the work that Ru did. They reviewed the
6	work plan with the health department and approved
7	the work plans they did. And it was confirmed by
8 .	H2M, they did an adequate job of characterizing the
9	lateral and vertical extent of the contamination.
10	They made their recommendation, and my response to
11	their recommendation was that we did not concur with
12	that recommendation. Rather we transferred the
13	responsibility of the PCBs in those two drywells
14	that were discovered by the close-out on under the
15	UAC to the Site 1 ROD. So the Navy is going to take
16	care of that on a site-wide basis uniformly, now.
17	So anything that they're going to have to leave
18	that's above the recommended soil clean-up
19	objective, they have to go through the explanation.
20	Therefore, it will all be addressed
21	at that time.
22	A MAN: They are going to start
23	generating a lot of dust and all that stuff okay,
24	they are going to go down, they are going to start
25	digging. Are you going to put the bill on the

1	Bethpage RAB - 4/14/04 - First Iteration
2	company that is going to come in.
3	MR. COLTER: Let me explain that. If
4	you're going to develop this area and you take soil
5	off of this station, it is just prudent. Any
6	disposal facility is going to require you to show
7	them what you're bringing onto their site.
8	CO-CHAIR McBRIDE: It is by law.
9	MR. COLTER: There is a possibility,
10	if we go down deep enough in some areas, we
11	encounter one of those confirmation samples but have
12	you to be exposed to that for well over like 250
13	days. The one-time incidental exposure is
14	absolutely no risk whatsoever. So we've said
15	that all, but the nine acres, is free of
16	contamination with the exception of a hit here, a
17	hit there and a depth here and a depth there.
18	A MAN: That is my point.
19	MR. COLTER: It is not wide spread.
20	Northrop Grumman did a pretty good assessment, and
21	we followed that up Can we give you a 100 percent
22	money back guarantee, no, that is not the way the
23	program is set up. We didn't grid the plant out on

guys are developing and you hit a source of

24

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five foot intervals. In the unlikely event that you

1	Bethpage RAB - 4/14/04 - First Iteration
2	contamination that we missed, there's CERCLA
3	covenants that goes with the deed. It is federal
4	law that says in that instance, the Navy comes back
5	and addresses it.
6	That is in the deed. It is in the
7	federal law and we can't get around it. The first
8	thing we would do is make sure it is not something
9	that happened post transfer. Barring that, we'll
10	come back, budget it, and take care of it.

11 MR. SCHARF: Under the FOST, that has 12 been mentioned here, there are certain areas that 13 within Plant 3, they can only dig so deep. When 14 they were doing the corrective action I covered 15 earlier. They were inside the building. As they 16 were digging down, and they did confirmation 17 samples, they found areas down deeper that had 18 elevated inorganics and contaminants, but they deed 19 restricted that also. So the building itself in certain areas has a bunch of deed restrictions that 20 21 are going to run with the deed. So anybody that's 22 going to tear down Plant 3 and redevelop that area 23 specifically has to do a very comprehensive testing 24 program before they do that, because there are 25 restrictions that are running with that deed.

1	Bethpage RAB - 4/14/04 - First Iteration
2	MR. GRELLO: The reason why I'm
3	concerned with the two drywells is guy is going to
4	be working I'm in the construction trade. He's
5	digging footings for curbs, he's running piping for
6	storm drains. He's going to bring that PCB mud that
7	is in that four feet, home on his shoes, into his
8	car, and his children are going to be breathing that
9	or eating that when they drop the Cheerios on the
10	floor and pick it up. If it is at four feet, it
11	should be removed.
12	MR. SCHARF: That is correct.
13	MR. GRELLO: We are not talking going
14	down 28 feet.
15	MR. COLTER: We'll take a look at it.
16	MR. SCHARF: We agree.
17	MR. SCHARF: The Department of the
18	Navy, in their design, will go through all the data
19	that is available and make sure it will be
20	addressed, cleanup standards will be addressed.
21	MR. COLTER: As far as and we have
22	to look Grumman dug down to 24 feet, supposedly
23	got everything, and backfilled everything with clean
24	fill. So we have to take a look at that.
25	A MAN: We wanted to make sure,

1	Bethpage RAB - 4/14/04 - First Iteration
2	horizontally, how far does it go out? That was just
3	outside the excavation.
4	A MAN: They were 10 foot intervals.
5	MR. COLTER: If they're addressed
6	outside of the excavated area, that is what we
7	address under our ROD.
8	MR. SCHARF: When we first developed
9	the work plan, we developed how to tackle the
10	problem. And
11	MR. COLTER: There's a significant
12	difference at depth, because, yes, our ROD says
13	we'll clean up everything above ten, but we also
14	have a duty. The taxpayers' money is what we use to
15	clean this up. So if we are going to spend, to go
16	down 50 feet, if we spend six, 7 million dollars and
17	really there's no risk to anybody, Congress is going
18	to question that, that decision. So we have to be
19	real careful in how we spend the money and that we
20	also protect the environment and human health, too.
21	CO-CHAIR McBRIDE: Jim, separate
22	question. The report that was issued by H2M. Since
23	it was paid for by the Navy, is there a restriction
24	as to whether we can give copies to anyone who is
2.5	interested?

1	Bethpage RAB - 4/14/04 - First Iteration
2	MR. COLTER: That will go into the
3	information repository.
4	MR. MANGANO: If someone asks us to
5	get a copy, does it have to go through the Navy to
6	get released?
7	A PERSON: We have spare copies.
8	MR. SCHARF: This was something done
9	by the citizen's group and it is a releasable
10	document.
11	CO-CHAIR McBRIDE: As far as you're
12	concerned, if somebody else wants to read this
13	report, does it have to come through you first?
14	MR. COLTER: No, we'll put a copy in
15	the library and we'll have several copies and give
16	several copies to Jim.
17	MR. SCHARF: There's two things, I'd
18	like to commend H2M for doing a thorough job of
19	reviewing the reports that were generated on this
20	part of the project. And I'd like to commend the
21	Navy for funding this part of the project. I think
22	it was helpful and helps to substantiate what we are
23	going to do at this site, the remedial work that
24	needs to be done.
25	CO-CHAIR MCBRIDE: We were very

1	Bethpage RAB - 4/14/04 - First Iteration
2	pleased on the work we did with H2M, was very
3	professional.
4	There are two recommendations that
5	H2M did make in the report. What's the procedure
6	now for getting a response back from the Navy as to
7	whether or not those recommendations will be
8	accepted.
9	MR. COLTER: We'll take a look at
10	them and see how they play in our overall scheme and
11	we'll make a decision.
12	MR. MANGANO: By the next RAB, in
13	other words.
14	MR. COLTER: Maybe not the next one,
15	but the one after that. We'll look at it, the one
16	recommendation in there is for Northrop Grumman.
17	They are the ones that do the quarterly monitoring
18	so we'll have to see how the DEC is going to play
19	into implementing that one. That may be a bit of a
20	problem to implement from the Navy side, because
21	Northrop Grumman is doing that work as per our
22	agreement.
23	Investigating a little bit more
24	groundwater, I don't see that as an issue, because

25

we are going to be doing some work. I didn't bring

1	Bethpage RAB - 4/14/04 - First Iteration
2	it up at this meeting but at the next AOC 22
3	meeting, former Fuel UST site, we have a vendor out
4	there that claims they have a process that can clear
5	that soil up in 12 months. So we've presented it to
6	the DEC to see if it is something that is feasible
7	to do. They look favorably upon it and that vendor
8	is putting together work plan, at the next RAB we'l
9	actually present what they're going to be doing to
10	clean up the soils. Part of that is groundwater
11	monitoring in that area. So.
12	CO-CHAIR McBRIDE: Okay.
13	MR. COLTER: To put a few more wells
14	in that area at that time, shouldn't be a problem.
15	MR. MANGANO: So I have the process.
16	We went through the expense of getting this report
17	to get some more recommendations. The process is
18	this report who comments on it, the DEC?
19	MR. COLTER: Whoever
20	MR. MANGANO: Who do we officially
21	present this report to so it gets commented on,
22	like.
23	MR. COLTER: Should go to every
24	member of the RAB and regulators on the mailing lis

and anyone is free to comment on it.

1	Bethpage RAB - 4/14/04 - First Iteration
2	MR. MANGANO: Who's the decision
3	makers?
4	MR. COLTER: Is there a budget left
5	to incorporate comment.
6	MR. SCHARF: That is a good point.
7 ′	A PERSON: I don't know how many
8	copies, how many people are actually on the board.
9	CO-CHAIR McBRIDE: The board is here.
10	MR. MANGANO: My question went to
11	getting a response to this.
12	CO-CHAIR KAMINSKI: We are going to
13	respond to it.
14	MR. COLTER: I don't know.
15	MR. MANGANO: Do you coordinate also
16	with Northrop Grumman in D. C., in getting these
17	answers.
18	MR. COLTER: We will. That
19	recommendation, I'll have to talk to Steve about to
20	say, you know, how are we going to do this, or can
21	we do this?
22	MR. MANGANO: For the next agenda,
23	you'll give us an update on the process of actually
24	getting an answer?
25	MR COLTER (Nods)

1	Bethpage RAB - 4/14/04 - First Iteration
2	A MAN: So it is an official item.
3	MR. GRELLO: Jim, in the grand scheme
4	of things ,adding PCBs as another parameter in
5	testing is minimal cost. I don't foresee that as a
6	problem, adding that parameter. When we are talking
7	and adding upgradient monitoring wells, it is common
8	sense, we should have upgradient numbers coming in.
9	For all we know these chemicals could be coming from
LO	Hooker and Grumman is paying for them. There could
1.1	be something across the street where the farmers
12	market was. We don't know.
13	MR. COLTER: IR Sites 2 and 3,
14	remember, are on the other side of Plant 3, on the
15	north side. We have plenty of data up there on PCBs
16	and groundwater, and or the lack thereof. There
17	is upgradent data for the site. I'm not sure where
18	we are talking.
19	A PERSON: Based on what we looked at,
20	the drywells are very likely the source of what they
21	saw in groundwater.
22	MR. GRELLO: They were mixed with
23	solvents. That is why they spread so far.
24	CO-CHAIR McBRIDE: Joe, can you
25	coordinate with H2M to have this mailed out

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1	Bethpage RAB - 4/14/04 - First Iteration
2	(indicating) to the people on the mailing list, so
3	everybody has it.
4	A PERSON: If someone can provide us
5	with the mailing list.
6	MR. COLTER: I could do it.
7	I'll put out a distribution letter
8	from the Navy and send it to you and you can what
9	I'd like to do, though, everyone that has one.
10	CO-CHAIR McBRIDE: We have them. The
11	RAB has it.
12	MR. COLTER: The people that don't,
13	is the DOH.
14	Has everyone signed in.
15	Everyone who signed in will get a
16	copy of the distribution letter but not the report.
17	MR. MANGANO: So we have an updated
18	list, the names and addresses get them to Jim
19	McBride so we have.
20	MR. COLTER: Yep.
21	CO-CHAIR McBRIDE: Are we at the last
22	order of business.
23	MR. COLTER: That's it for me.
24	CO-CHAIR McBRIDE: Can I just, I've
25	said in the past, we started the RAB three years

1	Bethpage RAB - 4/14/04 - First Iteration
2	ago, if anybody else on the committee would be
3	interested in assuming the position of co-chair, I
4	think it is only fair that it is offered to
5	everybody on the committee.
6	CO-CHAIR KAMINSKI: You get a free
7	trip to Salt Lake City.
8	CO-CHAIR McBRIDE: Everyone's been
9	extremely helpful and again, for fairness, it has to
10	be opened up to everybody. I would like everybody
11	really to consider it. And if anyone is interested,
12	please.
13	MR. COLTER: How about at the next
14	meeting we bring nominations to people that want to
15	do it. Let us know if you still want to do it. If
16	not, I guess somebody has to pick it up.
17	CO-CHAIR McBRIDE: I think we should
18	in fairness open it up to everybody.
19	MR. GRELLO: Don't you have to send
20	notification to the rest of the members.
21	CO-CHAIR McBRIDE: This is the
22	membership of the RAB.
23	A MAN: This is it.
24	MR. COLTER: Anybody else you know in

your neighborhood that is interested.

1	Bethpage RAB - 4/14/04 - First Iteration
2	MR. MANGANO: My own comment hope yo
3	have you have been here as the president. It has
4	to be somebody that has attended regularly. To
5	bring in a chairman in, starting over, it doesn't
6	make sense. I would think, you could be a member.
7	Maybe you can bring somebody on as a member, but to
8	be the chair.
9	CO-CHAIR McBRIDE: I'm willing to
10	assist and to stay on, but I think it should be
11	opened to everybody.
12	CO-CHAIR KAMINSKI: Closing remarks,
13	then, from me?
14	I want to thank the presenters,
15	especially John everybody else who is on the
16	payroll. John came up as a volunteer. I appreciat
17	that. It goes way beyond what RABs usually do.
18	CO-CHAIR McBRIDE: Good night,
19	everybody.
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