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2 NAVAL STATION TREASURE ISLAND  
3 ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING  
4 16 FEBRUARY 1999  
5 7:00 P.M.  
6 CASA DE LA VISTA  
7 TREASURE ISLAND  
8 MEETING NO. 53  
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13 TRANSCRIPT OF PROCEEDINGS  
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20 REPORTED BY: STEPHEN BALBONI, CSR NO. 7139

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1 COMMUNITY MEMBERS (Continued):  
2 PAUL HEHN (Community Co-Chair)  
3 JACK W. SAVAGE  
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1 A T T E N D E E S  
2 U.S. NAVY:  
3 ERNIE GALANG (RPM)  
4 JAMES B. SULLIVAN (BEC and Navy Co-Chair)  
5 MIKE GOUGH (OIC, CSO TI)  
6 SAN FRANCISCO MAYOR'S OFFICE:  
7 MARTHA WALTERS (TI Facilities Manager)  
8 TETRA TECH EM, INC.:  
9 EDWARD HO  
10 RICHARD KNAPP  
11 STACEY LUPTON  
12 REGULATORY AGENCY:  
13 DAVID RIST (DTSC)  
14 GUTIERREZ-PALMENBERG, INC. (GPI)  
15 BARRY ROBBINS  
16 MARIA VILLAFUERTE  
17 COMMUNITY MEMBERS:  
18 CHRISTINE SHIRLEY  
19 NATHAN BRENNAN  
20 RICHARD HANSEN

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1 CO-CHAIR SULLIVAN: Okay. I think we are  
2 ready to get going.  
3 Okay. There should be copies, extra copies  
4 of the agenda on the back table.  
5 Welcome to our February Restoration Advisory  
6 Board meeting.  
7 Our first item of business is the agenda.  
8 Are there any comments concerning tonight's agenda?  
9 (No response.)  
10 CO-CHAIR SULLIVAN: We pretty much put this  
11 agenda together at the interim, community members  
12 interim meeting a couple of weeks ago, so it should be  
13 basically the same.  
14 MR. HANSEN: Jim?  
15 CO-CHAIR SULLIVAN: Yes?  
16 MR. HANSEN: I just want to suggest that  
17 maybe you introduce Lieutenant Gough.  
18 CO-CHAIR SULLIVAN: Yes. I was going to do  
19 that in public comment.  
20 Okay. Well, there being no other comments,

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1 we will proceed into public comment.  
 2 And not seeing any members of the general  
 3 public here, I will take this time to introduce  
 4 Lieutenant Mike Gough, who is the new officer in  
 5 charge at Caretaker Site Office Treasure Island. He  
 6 is the senior military officer. Of course, he is the  
 7 only military officer here at Treasure Island.  
 8 Mike, do you want to maybe just briefly say  
 9 what the OIC does?  
 10 MR. GOUGH: Just very briefly, my job  
 11 description is to make sure during the transition  
 12 process between, from when the Navy was operating the  
 13 base and the time that it is turned over to the City  
 14 and other agencies, to make sure that it is kept in an  
 15 operational condition as much as possible, and to make  
 16 sure that day-to-day business continues on so that we  
 17 get the best reuse out of the facilities and the land  
 18 itself.  
 19 So I split my time right now between here at  
 20 Treasure Island and Hunter's Point. And as time goes

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1 along, it looks like I will even be picking up some  
 2 more bases and sites.  
 3 But I'm always here, and if somebody has  
 4 questions, you're more than welcome to give us a call.  
 5 We will try and provide the information that you need  
 6 to make sure that things go smoothly in this  
 7 transition.  
 8 MS. WALTERS: Now, where are you based out  
 9 of, San Bruno or here?  
 10 MR. GOUGH: Actually, I am based here. I  
 11 have an office here. I have an office at Hunter's  
 12 Point.  
 13 MS. WALTERS: You're in Building 1?  
 14 MR. GOUGH: In Building 1.  
 15 CO-CHAIR SULLIVAN: Yes, together with the  
 16 caretaker people. He's on the other side of the  
 17 hallway from where I am.  
 18 MR. GOUGH: So I actually live out here --  
 19 well, not live, but work out here on Treasure Island.  
 20 Actually, I may live out here on YBI.

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1 So I am around and I have an interest in it,  
 2 too.  
 3 MS. WALTERS: Great.  
 4 MR. HANSEN: Our biggest concern is that you  
 5 just keep the money flowing.  
 6 MR. GOUGH: Understood. I keep trying to  
 7 ask for more myself.  
 8 MR. HEHN: Welcome.  
 9 MR. GOUGH: Thank you.  
 10 CO-CHAIR SULLIVAN: Okay. Thank you.  
 11 Our next item is discussion and approval of  
 12 the November '98, January '99 meeting minutes.  
 13 If you didn't get the November meeting  
 14 minutes out for -- we didn't have a meeting in  
 15 December, and we didn't get the November minutes out  
 16 in time for the January meeting. So now we have both  
 17 the November and the January meeting minutes.  
 18 MS. SHIRLEY: I had a question about both of  
 19 them, or actually a suggestion. I forgot to bring  
 20 them with me, but on the November ones, there was a

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1 mention of PVC pipes and "thaliates." I think that  
 2 word is spelled incorrectly.  
 3 CO-CHAIR SULLIVAN: Actually, I have both.  
 4 Here's a copy of each one.  
 5 There should be extra copies in the back of  
 6 both the November and the January meeting minutes.  
 7 MS. SHIRLEY: Yes. It was on page 11.  
 8 CO-CHAIR SULLIVAN: Of the?  
 9 MS. SHIRLEY: Of the November.  
 10 And in the sentence that begins, "Mr. Knapp  
 11 referred to studies done on well casings," actually,  
 12 it's in that whole discussion on page 11, I think that  
 13 word thaliates, T-H-A-L-I-A-T-E-S, I don't think  
 14 that's what it is.  
 15 MR. KNAPP: Yes. It's "P-H."  
 16 MS. SHIRLEY: It's P-H-T-H-A-L-A-T-E-S.  
 17 CO-CHAIR SULLIVAN: Okay. I see what you  
 18 mean.  
 19 And then on the January minutes, I misspelled  
 20 The lead comment, lead Section 403 comment period ends

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1 March 1st, not the 30th.  
2 CO-CHAIR SULLIVAN: I'm sorry. That was on  
3 page 2?  
4 MS. SHIRLEY: That's on page 2. It's also  
5 in the back.  
6 Not that it matters, but for anyone who  
7 wants to make comments, it ends on the 1st, not the  
8 30th.  
9 CO-CHAIR SULLIVAN: Okay. Any other  
10 comments?  
11 I probably should admit, I didn't compare  
12 these, either one of these very closely, as close as I  
13 usually do to the transcript. So I'm not surprised  
14 that there is comments.  
15 For the previous minutes over the last year,  
16 I've gone through the transcript page by page, but I  
17 didn't do that for either the November or the January  
18 minutes.  
19 MR. RIST: On the November minutes, page 5,  
20 second paragraph, second sentence, after "west," it

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1 should be the "debris disposal area," and then the  
2 "north side."  
3 And then I would put "suspected burn pit."  
4 The other one is not a burn pit.  
5 CO-CHAIR SULLIVAN: I'm sorry. Which  
6 paragraph is that, Dave?  
7 MR. RIST: Second paragraph, second line.  
8 CO-CHAIR SULLIVAN: Okay.  
9 MR. RIST: It should be: "debris disposal  
10 area and the north side suspected burn."  
11 And then on page 6, the sixth paragraph in  
12 the second sentence, it should say: "For example, one  
13 area on Site 6." Not "Area 1." I think that's  
14 incorrect.  
15 CO-CHAIR SULLIVAN: Okay.  
16 MR. RIST: And then in the January minutes,  
17 there is two places where it's referred to, or where  
18 Stan Fillippe is referred to. He's the chief officer  
19 of military facilities. That's on page 1, the last  
20 paragraph. It's also on page 13 at the top of the

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1 page.  
2 And that's it.  
3 CO-CHAIR SULLIVAN: Any other comments  
4 concerning either November or January?  
5 What I will do is, then, what I would  
6 propose, we accept them with these corrections, but I  
7 will also take a look through the transcript and make  
8 sure that there is nothing else that should be there.  
9 So as long as its in agreement with the  
10 transcript, it should be correct.  
11 So is there a move to make these changes for  
12 the November and January minutes and the Navy will  
13 take another review of the transcripts?  
14 MR. BRENNAN: Yes. I will move we accept  
15 them with the changes.  
16 MR. SAVAGE: Second.  
17 CO-CHAIR SULLIVAN: All in favor?  
18 Okay. The next item, we afford the time to  
19 the City to apprise us.  
20 MS. WALTERS: A couple of things.

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1 We have a new staff member. His name is  
2 Stephen Proud. He is now the Director of Development.  
3 He replaces Christy Tahata (phonetic).  
4 MS. SHIRLEY: Stephen, what's the name?  
5 MS. WALTERS: Stephen Proud, P-R-O-U-D.  
6 And he comes from the Mayor's Office of  
7 Economic Development. He joined on the board about  
8 three weeks ago.  
9 I think he's going to add a lot to the  
10 staff. He's now working on the economic development  
11 conveyance and other economic development issues for  
12 Treasure Island.  
13 The second thing is that it's anticipated  
14 now that the Development Authority will issue a master  
15 developer RFQ sometime this summer, and that's  
16 actually, I think, having Stephen on board, really  
17 helps to push that whole effort.  
18 At the last Treasure Island Development  
19 Authority meeting, the Board confirmed Treasure Island  
20 Enterprises as the marina developer. What that means

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1 now is that Treasure Island Enterprises will enter  
2 negotiations with the City of San Francisco, and if  
3 they come to agreement, then they will become the  
4 developer for the marina in the Clipper Cove area.

5 And the fourth one is, I understand that  
6 there is some folks here who would like to get meeting  
7 minutes from the Treasure Island Development Authority  
8 meetings. I'm more than happy to provide them, but I  
9 need to get an idea about how many people want them.  
10 We don't just make xerox copies for naught.

11 So is everybody interested?  
12 I know that, Paul, you're interested.

13 MR. HEHN: Yes.

14 MR. HANSEN: I think, basically, the whole  
15 group. There is only about 15 of us now.

16 MS. WALTERS: Okay. Did you bring that one?

17 CO-CHAIR SULLIVAN: Actually, I brought a  
18 couple.

19 MS. WALTERS: Great. And we have some here.

20 This is from January's meeting, okay

1 (indicating)?

2 And at the next meeting, we will bring the  
3 ones from the February one.

4 The next Development Authority meeting is  
5 going to be March 10th at City Hall in Room 400 -- is  
6 that right?

7 CO-CHAIR SULLIVAN: That sounds -- it's on  
8 the fourth floor.

9 MS. WALTERS: Yes, it's on the 4th floor.

10 MR. HANSEN: Question: Martha, what you  
11 said about the master-tenant agreement, what will the  
12 relationship with the marina operator be to the master  
13 guy on Treasure Island?

14 MS. WALTERS: That has yet to be determined.

15 Obviously, there is going to have to be a  
16 close working relationship between the master  
17 developer and the marina developer.

18 And it's been actually one of the big  
19 contentions about having the marina development out in  
20 the front of the master developer.

1 MR. HANSEN: It seems like it.

2 MS. WALTERS: But, actually, it gets back to  
3 the whole issue of generating revenue for the City.

4 Now, we have a housing area. And now th  
5 next area is the marina. And there is a push to keep  
6 on generating revenue.

7 MR. HANSEN: And the master developer will  
8 face the housing issue, the whole ball of wax?

9 MS. WALTERS: That's a good question. I'm  
10 not really sure, Richard.

11 I would assume so, but that's an assumption  
12 right now. And that's why, actually, bringing Stephen  
13 on board is critical for the City at this juncture.

14 There was, really, probably a six-month gap  
15 since Christine had left, and we really felt that.

16 MR. GALANG: The meeting is 1:00, same time?

17 MS. WALTERS: Yes, 1:00.

18 MR. HEHN: What's the timing on the  
19 development of the marina at this point, do you have  
20 kind of an idea?

1 MS. WALTERS: No. Actually, I know th  
2 it's sooner rather than later, and it's very vague.

3 Also, it depends on the cleanup, too. And  
4 that's one of the things that we are working on the  
5 BCT, to make sure the offshore RI/FS gets completed at  
6 a more accelerated pace to encourage the development.

7 That is going to be part of the negotiations  
8 between the City and the marina developer, Treasure  
9 Island Enterprises, setting up a time schedule.  
10 That's what they had done with the John Stewart  
11 Company, as an example.

12 MR. HEHN: So they're going to do that on an  
13 accelerated schedule, much like they did for Site 12,  
14 to move that forward at a faster pace?

15 MS. WALTERS: Yes, exactly.

16 MR. HEHN: Do they, can you give us some  
17 idea what they are looking for in the next two years,  
18 three years, five years, next month?

19 MS. WALTERS: No.

20 I would say it's probably, I think it's a

1 much shorter time frame than that.  
2 I would say between the next year or two  
3 because there are a lot of different issues that have  
4 to be addressed in the marina area, like the seismic  
5 dike, building up the seismic dike area. That's going  
6 to be the number one issue in terms of construction,  
7 and then how do you deal with the environmental  
8 contamination in that area? So that's all going to be  
9 integrated in that; okay?

10 MR. HEHN: Yes.

11 MS. WALTERS: Any other questions?

12 CO-CHAIR SULLIVAN: Thank you.

13 Moving into the cleanup process, our first  
14 presentation is on the removal actions at IR Site 12.

15 As some of you may know from previous  
16 discussions, we have started on removals at two  
17 locations -- one, the area in the 1300 housing area  
18 where we had TPH in groundwater exceeding 1.4  
19 milligrams per liter.

20 And the other site in Building 1207 and 1209

1 area, where we had some concentrations of lead, and we  
2 made a decision between the Navy, the City, and the  
3 regulatory managers that, rather than continue to  
4 characterize it, given it was a small site, we would  
5 go ahead and do a removal and then sample as part of  
6 the removal.

7 And so Ed Ho is here tonight to brief us on  
8 both those removal actions.

9 Ed?

10 MR. HO: Good evening, everyone.

11 Did everyone get a copy of the handouts?

12 There were handouts at the table in the back.

13 As Jim mentioned, these are the removal  
14 actions on Site 12.

15 I'm going to discuss the technical  
16 background of the removal actions, the administrative  
17 framework, and then go into a more detailed discussion  
18 of the actual removal actions of lead site and the TPH  
19 site, and then we will take a look at the schedules  
20 and answer any questions that you might have.

1 And if you have questions during the  
2 presentation, feel free to raise your hand.

3 So the lead site is right around Building  
4 1209. And previous investigations identified it as a  
5 suspected area of contamination, as a possible burn  
6 pit back in the '40s.

7 So the investigations determined that lead  
8 was present in concentrations in size over 1400  
9 milligrams per kilogram. The cleanup goal was 400.

10 At the TPH site, which is near building  
11 1311, we had TPH in soil at concentrations of over  
12 12,000 milligrams per kilogram. Our cleanup goal for  
13 the purposes of this remedial action are 447  
14 milligrams per kilogram.

15 TPH is also present in groundwater, too.  
16 Concentrations as high as 3.4. Again, our cleanup  
17 goal for the purposes of this removal action is 1.4.

18 The administrative framework is defined by  
19 the transfer deadline which is August 1st of this  
20 year.

1 CO-CHAIR SULLIVAN: Actually, I should say  
2 it's the leasing date for that property. There won't  
3 actually be any deed transfer of property.

4 MR. HO: Right. The lead site. That's  
5 within CERCLA. It's a time critical removal action.

6 So CERCLA times critical removal actions  
7 require removal site evaluation, which, essentially,  
8 describes the status of the site and why removal  
9 actions are to occur. And it discusses some of the  
10 options and presents the selected alternative, and  
11 then an action memorandum documents that process.

12 Both of those documents, drafts have been  
13 completed and they will be submitted for review as  
14 early as next week.

15 And there will be a 30-day public comment  
16 period on this which is timed by CERCLA. Once that  
17 document is finalized, then we will be able to go into  
18 the actual construction.

19 We will also be preparing a construction  
20 oversight work plan. Tetrtech has the clean contract

1 to oversee the RAC, Remedial Action Contract. They  
2 are the ones, IT, that will be doing the work. We  
3 will be doing the oversight, and we will do a work  
4 plan to do that and also describe our sampling plan,  
5 our health and safety procedures.

6 TPH site. It's important to note that in a  
7 basewide context, we don't have an initial agreed upon  
8 screening level for TPH, but since we want to move  
9 with some expediency on this site, we are selecting  
10 these numbers as our work numbers.

11 CO-CHAIR SULLIVAN: These are the numbers  
12 that we are using throughout Site 12.

13 MR. HO: That's right.

14 CO-CHAIR SULLIVAN: So the agreement with  
15 the agencies was throughout Site 12 so that we could  
16 move the whole site along.

17 And it was only at this area where we had  
18 exceedance in groundwater above 1.4 milligrams per  
19 liter.

20 MR. HO: That's right.

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1 TPH is not a CERCLA contaminant, so it won't  
2 be in the CERCLA process.

3 What we will do instead is a CAP, a  
4 Corrective Action Plan, much like what we are doing in  
5 some of the other sites at TI. It will look like this  
6 particular area of Site 12.

7 And this, again, is a construction oversight  
8 work plan very similar to this one and performs the  
9 same functions.

10 This CAP will also be available for review,  
11 and it's also on the same schedule as this. So it  
12 should be completed by next week.

13 Since we do have a groundwater issue in this  
14 area, we will be doing a groundwater treatment system  
15 design. And that schedule is a little bit behind this  
16 schedule, intentionally, and we will be recommending  
17 groundwater treatment system technology. We will be  
18 preparing a preliminary design, and IT will execute  
19 it.

20 So after the removal actions are complete,

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1 we will be doing close-out reports for both areas.

2 And the schedule says that those should be submitted  
3 by August 1st.

4 Any questions on that?

5 (No response.)

6 MR. HO: More specifically, the actual field  
7 work at the lead area is going to start with  
8 delineation.

9 We have some data, which you can see on your  
10 figures on the handout. But to do the excavation, we  
11 need to get a more precise handle on where the  
12 contaminated area is.

13 So the RAC IT sampling, there are nine  
14 locations on that figure shown, and we will be getting  
15 data from those points.

16 If lead concentrations are below 400, that  
17 will be considered the clean boundary of the  
18 excavation at that point.

19 If it's higher than 400, additional sampling  
20 will step out from that location until concentrations

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1 of under 400 are reached.

2 So once the excavation is delineated, the  
3 actual soil can proceed, and again, it will be doing  
4 that. It will be excavated and disposed of off site,  
5 probably a Class 2 landfill locally.

6 Once that excavation is completed, we will  
7 be coming in to do confirmation samplings around the  
8 borders and the bottom of the excavation. We will be  
9 looking for the 400 milligram per kilogram level.

10 Once we achieve that, the backfill  
11 restoration will proceed.

12 MR. SAVAGE: Where will the backfill come  
13 from?

14 MR. HO: Probably a site off of Treasure  
15 Island.

16 CO-CHAIR SULLIVAN: It will just be clean  
17 construction backfill that you might use at any new  
18 construction project.

19 MR. HO: Right, like landscaping.

20 The TPH area will be addressed in almost the

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1 same manner with delineation up front, and then the  
2 excavation, similar disposal, and confirmation  
3 sampling.

4 But then when we get to that point, we will  
5 be installing the groundwater treatment system. It  
6 still remains to be seen what that will be, but it  
7 will be installed at that point.

8 And then the excavation will be backfilled  
9 and the site restored.

10 And then the treatment system will be  
11 operated. The groundwater is not the type of thing  
12 that can be simply removed. The operation of the  
13 groundwater treatment system will continue until  
14 concentrations are below the screening levels.

15 So any wells that, there are some wells at  
16 the site now, and monitoring will continue at those  
17 locations through the regular monitoring program.

18 So, again, our goal is to have that all  
19 completed by August 1st, with the exception of the  
20 continuing treatment of the groundwater.

25

1 But the close-out reports, the excavation  
2 should be completed and the close-out reports into  
3 review by August 1st.

4 We are slightly ahead of schedule at this  
5 point, and I really want to try to get us as much  
6 ahead of schedule as possible so that we can have a  
7 little bit more slack when we get into the field,  
8 which is also more unpredictable.

9 There is a copy of the schedule also in the  
10 back of your handout to look at.

11 Does anybody have any questions?

12 MS. SHIRLEY: I have a question that maybe  
13 Jim can answer.

14 I'm really confused about how the documents  
15 that he's talking about relate to the draft technical  
16 memorandum for sampling analysis and delineation of  
17 lead contaminating soil at Site 12 that was done in  
18 February of '99, and additional characterization of  
19 lead in soil in the vicinity of Building 1207 and 1209  
20 dated in November.

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1 I'm really confused how all that --

2 MR. GALANG: Those are the delineations to  
3 be done by IT in conjunction with these two sites. So  
4 we need comments.

5 CO-CHAIR SULLIVAN: Yes, it is a little  
6 confusing.

7 Before we made the decision to do the, go  
8 ahead and do the removal action, Tetrattech was going  
9 to do some additional characterization. And then we  
10 made the decision to go into removals.

11 We, essentially, didn't proceed with that,  
12 and then IT is basically doing some of that work that  
13 Tetrattech would have done in preparation for the  
14 removals.

15 MS. SHIRLEY: So what's the February '99  
16 document?

17 MR. GALANG: That's the deadline for the  
18 comments of the draft technical memo.

19 CO-CHAIR SULLIVAN: No, no. You're talking  
20 about the document dated February '99.

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1 MS. SHIRLEY: It's dated February '99.

2 It's called: Draft technical memorandum for  
3 sampling analysis and delineation of lead  
4 contaminating soil at Site 12.

5 MR. GALANG: Those are the documents that  
6 came from IT.

7 MR. HO: It's their plan to do this.

8 MS. WALTERS: Yes, the work plan.

9 MS. SHIRLEY: So what's this that you were  
10 just talking about?

11 MR. HO: This stuff right here was just what  
12 Ernie was talking about.

13 MS. WALTERS: Right.

14 MS. SHIRLEY: Wait a minute.

15 But you said something was coming next week.  
16 What is that?

17 MR. HO: That's our work plan.

18 MS. SHIRLEY: All right. So let me ask the  
19 question a different way.

20 Are these documents supposed to say the same

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1 thing, or were there decisions made between them that  
2 would make them say different things?  
3 MR. HO: No. They are totally separate  
4 documents to do different things.  
5 MS. WALTERS: Yes.  
6 CO-CHAIR SULLIVAN: Well, let me take a stab  
7 at it.  
8 I really, it's confusing. I mean, the IT  
9 work, the IT documents relate to them going out and  
10 doing the actual removals.  
11 And the Tetrattech documents relate to their  
12 oversight of the removals and the writing of the  
13 close-out reports.  
14 MS. SHIRLEY: So the problem should be  
15 described, should be . . . the way the problem is  
16 described should be the same between those two  
17 documents.  
18 CO-CHAIR SULLIVAN: They should be  
19 integrated, yes.  
20 MS. SHIRLEY: Okay. And they are not.

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1 MR. HO: Well, they shouldn't be integrated  
2 into one document.  
3 CO-CHAIR SULLIVAN: No, no.  
4 MS. SHIRLEY: I will give you an example.  
5 CO-CHAIR SULLIVAN: They should mesh  
6 together.  
7 MR. HO: Right.  
8 MS. SHIRLEY: Like the older document, the  
9 one dated November of '98, calls for 36 soil samples  
10 to be collected from 12 borings.  
11 Now we are talking about 9 borings, and I  
12 don't know how many samples in each.  
13 MR. HO: I believe it's 2 in each.  
14 MS. SHIRLEY: And the one dated January was  
15 9 borings with 3 samples, so I'm confused about where  
16 the decisions were made. Where did it go from 12  
17 samples -- from 36 samples to 18 samples?  
18 CO-CHAIR SULLIVAN: It basically went from a  
19 characterization to a removal.  
20 MS. SHIRLEY: So are one of these documents

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1 superseded?  
2 CO-CHAIR SULLIVAN: The November document  
3 gets superseded by the February document and the  
4 Tetrattech documents that you would be seeing in the  
5 next week or so.  
6 MS. SHIRLEY: It would be nice if it were  
7 mentioned in the February document that the November  
8 one no longer is in the running, because it's really  
9 confusing.  
10 MR. HEHN: It would be easier if you could  
11 draw this to say, this has been no longer valid, you  
12 know, no longer needs to be considered as a valid work  
13 plan.  
14 MS. SHIRLEY: Right, and if that could be  
15 said in the documents.  
16 CO-CHAIR SULLIVAN: Yes, or in the cover  
17 letter with the new documents of which, I think, these  
18 are the pre-drafts (indicating).  
19 MR. HO: Yes.  
20 CO-CHAIR SULLIVAN: This is what the two

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1 documents will look like (indicating). They are  
2 fairly thin.  
3 MS. SHIRLEY: Okay.  
4 CO-CHAIR SULLIVAN: And so these are the  
5 oversight documents.  
6 MR. HO: Those are the removal, essentially  
7 removals with the same evaluations.  
8 CO-CHAIR SULLIVAN: Right.  
9 MR. HO: The oversight document will be  
10 separate.  
11 CO-CHAIR SULLIVAN: Well, then, what we  
12 should do is, in the cover letter for these documents,  
13 or where we can in the documents themselves, clarify  
14 where we changed course from last November.  
15 MS. SHIRLEY: That would be really helpful,  
16 because they came all at once, and I could not figure  
17 out what in the world was going on.  
18 MR. HO: It is confusing.  
19 We are trying to do everything on an  
20 accelerated schedule, so we are really cranking out

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1 these documents.  
2 But that's a good clarification.  
3 CO-CHAIR SULLIVAN: But, basically, the  
4 confusion had its root in our shift from further  
5 characterization to just jumping into removal.  
6 MS. SHIRLEY: Right. Well, that wasn't made  
7 clear in the second document, that the other one  
8 wasn't in effect any more.  
9 The other question I have relates to the  
10 depth of the excavation. How deep do you plan to go  
11 for those excavations?  
12 MR. HO: The TPH site, it's to groundwater;  
13 as deep as necessary.  
14 Lead will be determined by the actual nature  
15 of the results from this sampling.  
16 MS. SHIRLEY: From the 9?  
17 MR. HO: They will take one sample right  
18 near the surface and then one further down.  
19 And, for instance, if the surface one is  
20 contaminated and the lower one is clean, the

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1 excavation at that point can be shallow.  
2 MS. SHIRLEY: Right.  
3 What if it's the other way around, which is  
4 the way the data seems to be?  
5 MR. HO: Then, I believe -- I'm not sure. I  
6 think it might also be groundwater.  
7 CO-CHAIR SULLIVAN: Well, at the lead site,  
8 the objective is to get it all, so the depth would be  
9 relative, I mean, we would continue to excavate until  
10 we hit, our sampling is less than 400.  
11 In the TPH site, the strategy is different.  
12 We are removing the soil as a source removal and then  
13 treating the groundwater.  
14 MS. SHIRLEY: Right.  
15 So that area is tidally influenced. Will  
16 you time the excavation so you are hitting it at the  
17 appropriate tide, or will you be doing it at high tide  
18 to save a little money on it?  
19 MR. HO: There is no intention to do that.  
20 CO-CHAIR SULLIVAN: That's a good question.

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1 MR. BRENNAN: There is no way they could  
2 finish within a cycle, anyway. They will be there,  
3 both, I'm sure.  
4 MS. SHIRLEY: Then how to determine where  
5 the groundwater is, it's going to be up and down  
6 depending on the tidal cycle.  
7 MR. HEHN: And what time of year.  
8 MS. SHIRLEY: And what time of year and  
9 everything else, yes.  
10 MR. HEHN: Get used to rain. It will be  
11 much higher than last month.  
12 MS. SHIRLEY: Right.  
13 So where do you determine that in an area  
14 like that?  
15 MR. SAVAGE: I have an item of curiosity  
16 question.  
17 MR. HO: Sure.  
18 MR. SAVAGE: Does the groundwater level vary  
19 from place to place geographically?  
20 MR. HO: Slightly, very slightly.

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1 MR. SAVAGE: How much variation is there?  
2 MR. HO: Less than an inch. These sites are  
3 quite small.  
4 CO-CHAIR SULLIVAN: He's talking about  
5 across the island, from the center of the island to  
6 the shoreline.  
7 MR. HO: Richard, two feet or something?  
8 MR. KNAPP: In the center of the island, the  
9 groundwater is as deep as 10 feet.  
10 But most of the sites that we have, most of  
11 the borings and wells are close to the edge of the  
12 island, and the groundwater could be as shallow as two  
13 feet, if you're right on the edge.  
14 Typically, say in that area there, it's  
15 about four and a half to five feet. That is somewhat  
16 back from the shoreline where tidal fluctuations will  
17 not cause a large difference in water level.  
18 MR. SAVAGE: The groundwater level at the  
19 periphery is related to the tidal level, is that  
20 right?

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1 Here's the island (indicating). The  
2 groundwater is shallower in the middle?  
3 MR. HO: No.  
4 MS. WALTERS: No.  
5 MS. SHIRLEY: The other way around.  
6 MR. HO: The soil is higher. There is more  
7 land in the center of the island. So that's why it's  
8 10 feet to groundwater.  
9 Whereas, if you go to the edge of the  
10 island, it tapers off.  
11 MR. KNAPP: There is actually a very slight  
12 topographic area. You can think of it as a curved  
13 surface, very slightly curved, like a dome radiating  
14 outward.  
15 And if you can get the elevation, say, above  
16 lower, low, low water, of the groundwater in the  
17 center of the island, it's at a higher elevation and  
18 here's the periphery, it is all around the edges  
19 (indicating).  
20 MR. HO: Christine, back to your question:

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1 At a TPH area, the goal really is to treat  
2 the groundwater. We will continue to treat the  
3 groundwater to keep it below the screening levels.  
4 And in doing so, frankly, we hope to do  
5 some, so if there is residual contamination in the  
6 soil, that should also be addressed through the  
7 bioremediation, which is the preferred alternative.  
8 Nathan?  
9 MR. BRENNAN: For the lead cleanup, is that  
10 just to see it's clean outside the burn pit, but  
11 you're to dig the burn pit?  
12 MR. HO: Yes. The burn pit is going to be  
13 excavated.  
14 These samples (indicating) -- well, for  
15 instance, this location here, there is lead at 774, so  
16 that's obviously above our action level. We want to  
17 determine where, how far that contamination extends.  
18 So samples here and here (indicating) will  
19 tell us, will answer that question.  
20 MR. BRENNAN: Right. But then you have a

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1 1400 and a 268, and you don't look in between.  
2 Are you going to look for an edge there?  
3 MR. HO: Right. That's all considered  
4 contaminated. It's going to be removed.  
5 MR. BRENNAN: What about under the street,  
6 are you drawing a line there? Are there samples on  
7 the south edge?  
8 MR. HO: There is one here (indicating).  
9 MR. BRENNAN: You have that one 700, but  
10 there is sort of no edge for that.  
11 Will that be found in the field or how will  
12 that be determined?  
13 MR. HO: Well, this comes from IT's work  
14 plan.  
15 MR. GALANG: Yes. Remember, that's one of  
16 our comment to put the sample.  
17 MR. HO: Right.  
18 MR. BRENNAN: So they will look for an edge  
19 out there, too.  
20 MR. HO: Yes.

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1 MR. BRENNAN: Okay.  
2 MR. HEHN: What does the dotted circle mean?  
3 MR. HO: A former burn pit, a suspected burn  
4 pit.  
5 CO-CHAIR SULLIVAN: And this is off of,  
6 predominantly off of the aerial photographs.  
7 MR. HO: That's right.  
8 MR. HEHN: How do they anticipate that the  
9 excavation for the lead -- actually, you have higher  
10 concentrations out there. You're 1410 out to your  
11 774.  
12 Is it selectively to go out to dig around  
13 those particular areas?  
14 MR. HO: The whole area, between here and  
15 the 774 is going to be removed.  
16 MR. HEHN: And you excavate between the  
17 buildings?  
18 MR. HO: That's correct. The buildings  
19 won't be disturbed.  
20 MR. HEHN: What happens if they get high

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1 lead samples between the sidewalls of the buildings?  
2 MR. HO: The soil underneath the building is  
3 nonaccessible to human contact, so it's permitted.  
4 MS. SHIRLEY: For now, but maybe not in 30  
5 years from now.  
6 MR. HO: Well, it's that or tearing down the  
7 buildings.  
8 CO-CHAIR SULLIVAN: Well, what we may want  
9 to do in conjunction with the removal is take some  
10 lateral samples at least to indicate what the  
11 concentrations might be.  
12 MR. HEHN: Yes, depending on how you do  
13 that.  
14 I guess my question is, Chris and I are  
15 concerned about the same thing, is that if you do get  
16 high concentrations on the walls of that excavation  
17 between the two buildings, you may not go after it  
18 now, but by the same token, you don't want to assume  
19 that the whole area is clean because of the  
20 excavation.

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1 We have unknowns out there and it may be  
2 part of the former burn pit.  
3 So that will be taken into consideration  
4 that there may be more contamination out there that  
5 may be excavated?  
6 CO-CHAIR SULLIVAN: Our objective is to not  
7 have any restrictions on the property. So our  
8 objective is to remove as much and then provide enough  
9 data to indicate whether or not we can make that  
10 claim.  
11 MR. HEHN: Okay. The sampling that may be  
12 done, what do you feel, say, for the lead in the  
13 excavation?  
14 MR. HO: The work plan, we will select an  
15 interval, you know, whatever the 20, 50 feet,  
16 something like that.  
17 MR. HEHN: Anything else?  
18 MS. SHIRLEY: Go ahead.  
19 MR. HEHN: What do you estimate the depth of  
20 the excavation will be for the lead analysis or for

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1 the lead excavation?  
2 MR. HO: It may vary because we still need  
3 to do delineation.  
4 You can see some of the deeper hits are  
5 about 3.7 feet, at least that far.  
6 MR. HEHN: The total volume in the soil?  
7 MR. HO: We estimated it could go down  
8 four-and-a-half.  
9 MR. HEHN: Volume?  
10 MR. HO: 700 yards.  
11 MR. HEHN: Where is that going to go?  
12 MR. HO: A landfill. It hasn't been  
13 selected yet.  
14 MR. HEHN: For either excavation?  
15 MR. HO: Yes.  
16 CO-CHAIR SULLIVAN: Our conceptual model is  
17 that if this was an area where the material was  
18 deposited, it's unlikely that somebody would dig a  
19 trench below the groundwater table, or even if it were  
20 possible, and so we are expecting to see most of it

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1 above the water table, but we are going to have to  
2 confirm that.  
3 MR. HEHN: And all of those parameters, for  
4 instance, estimated volumes and sampling, confirmation  
5 sample, methodology, those will all be in the work  
6 plan?  
7 MR. HO: Varying work plans.  
8 This sampling will be in the IT work plan,  
9 which is out in draft. The confirmation sampling will  
10 be discussed. The whole thing will be discussed in  
11 the report.  
12 MR. HEHN: And the oversight work plans will  
13 come out next week?  
14 MR. HO: No.  
15 The removal site evaluation action next  
16 week.  
17 The construction oversight work plan will  
18 be, I think, in a month.  
19 MR. HEHN: On the TPH removal action, do you  
20 have some idea what the TPH constituents are located

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1 in?  
2 MR. HO: They tend to be diesels and motor  
3 oils.  
4 MR. HEHN: I think Chris has brought up a  
5 very valid concern of ours, is that TPH, of course,  
6 they go down to groundwater, and that's where the  
7 highest concentrations are.  
8 And so the current interface, whatever that  
9 may be in time, you get a very high concentration  
10 right there. That may or may not be the extent of  
11 your contamination, based on what that variation in  
12 groundwater elevation has been over time.  
13 How are you going to determine that you have  
14 really done a complete removal action and you haven't  
15 just left a lot down below?  
16 MR. HO: Sediments will be taken out.  
17 MR. HEHN: Below groundwater.  
18 MR. HO: I think it may be, the floor of the  
19 excavation is one of the interfaces that needs to be  
20 cleared, if you will. So sampling will extend to that

1 groundwater.  
2 MR. HO: That one is not below groundwater.  
3 It may be, frankly, in the smear zone.  
4 MS. SHIRLEY: Yes, that's what we are  
5 concerned about.  
6 You come in here on March, high tide, after  
7 a big rainstorm, hit groundwater in two feet, go do  
8 your thing and leave, but you've left the smear zone.  
9 That's what we are concerned about, right,  
10 Paul?  
11 MR. HEHN: It's a valid concern.  
12 MR. HO: Certainly, and we share that  
13 concern.  
14 MR. HEHN: What you do is the question.  
15 MR. HO: It may be a bit of a balancing act.  
16 Excavations under the water table in sandy  
17 soil is very technically challenging, and that's the  
18 thing we are up against.  
19 Obviously, the Navy wants to remove as much  
20 of the source as possible. It's not cheap to go in

1 surface.  
2 MS. SHIRLEY: And then what if you find high  
3 concentrations there?  
4 MR. HO: If the groundwater remedial  
5 measure, again, as I mentioned before, we'll address  
6 that as well.  
7 MS. SHIRLEY: I have a problem with that  
8 strategy because you're leaving too much of the  
9 source, there is a potential to leave too much of the  
10 source there.  
11 MR. HO: Yes, there is, but remember what we  
12 are really doing with the TPH is addressing the  
13 groundwater. The groundwater is not very elevated  
14 there.  
15 MS. SHIRLEY: Right, but that's a good  
16 reason to make sure you get the source so you can turn  
17 off whatever treatment system earlier.  
18 MR. HO: Like I said, there is one area  
19 where the soil has 12,000. We have to check that out.  
20 MS. SHIRLEY: Even if it's below

1 there and dig the soil out. Certainly, we would wa  
2 to take out as much as would be efficient.  
3 MR. HEHN: Do you have a game plan or a  
4 general thought of what you're looking for or what  
5 you're planning to do for a groundwater remedial  
6 option?  
7 MR. HO: Things that we are considering are  
8 ORC, bio-sparging and the traditional treatment.  
9 MR. HEHN: These things will be laid out in  
10 the work plan.  
11 MR. HO: They will be discussed, yes.  
12 There may, in fact, be a mixture of those  
13 technologies.  
14 MR. HEHN: Will there be a preferred  
15 alternative in the work plans?  
16 MR. HO: Yes.  
17 MR. HEHN: What we are focusing towards?  
18 MR. HO: Yes.  
19 MS. SHIRLEY: Well, I guess I have just o  
20 suggestion that might not be completely relevant right

1 now, but I will say it while I'm thinking about it.  
2 That is, in the work plan, can you specify  
3 what sort of trucks will be used to move the dirt in  
4 and out? We had a problem at Hunter's Point where the  
5 trucks opened on the bottom and they spread stuff all  
6 over the place.

7 MR. HO: Actually, the plan is to use  
8 roll-out beds.

9 MS. SHIRLEY: Okay. If that could be  
10 specified.

11 CO-CHAIR SULLIVAN: Believe me, the thought  
12 of dirt trailing out of the front gate of the island  
13 crossed my mind pretty early on.

14 MS. SHIRLEY: Oh, good. I don't know how  
15 much you communicate with your colleagues, but it was  
16 a mess at Hunter's Point.

17 MR. HO: I have talked to them and we are  
18 keeping in close communication. Everything, again, is  
19 on a tight schedule. They plan to use roll-off beds.

20 MS. SHIRLEY: Good.

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1 a primary one that needs to be addressed, essentially,  
2 or are they both equally weighed the same?

3 MR. HO: When it comes to the actual  
4 technical aspects of the excavation, it would be the  
5 RAC. They are tasked with executing it, overseeing  
6 it.

7 MR. HEHN: The one we got was just the  
8 sampling work plan, the preliminary delineation work  
9 plan sample?

10 So we are still looking at the RAC plan plus  
11 your work plan.

12 MR. HO: Right.

13 MS. SHIRLEY: Right.

14 MR. HEHN: We will be busy, Chris.

15 MR. HO: Yes.

16 CO-CHAIR SULLIVAN: Well, this is our first  
17 removal action.

18 Other than the UST poles and fuel line, this  
19 is the first removal action we have had on the  
20 project.

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1 MR. HEHN: And I'm personally interested in  
2 where the soil is going as well.

3 MR. HO: Well, it will probably go to a  
4 Class 2 in the East Bay.

5 MR. HEHN: Okay. Any concern about that at  
6 Hunter's Point, as far as where the material is  
7 actually going?

8 MS. SHIRLEY: We talked about it and decided  
9 it was a monster we weren't ready to live with.

10 MR. HO: Well, just so you know, I'm also  
11 trying to make sure that the soil, when it's actually  
12 trucked out, doesn't have too much impact, mutual  
13 impact with traffic.

14 MS. SHIRLEY: Like it doesn't leave at  
15 commute time at 5:00.

16 MR. HO: Right.

17 MS. SHIRLEY: That's good.

18 MR. HEHN: One of the questions is, which  
19 sort of takes precedence in a case like that, the RAC  
20 work plan or your oversight work plan, that is sort of

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1 MS. SHIRLEY: First. How exciting.

2 MR. HEHN: There is one other thing I might  
3 suggest.

4 MR. HO: Yes.

5 MR. HEHN: I'm sorry, Jim.

6 As you get to the point of presenting that,  
7 those work plans, you might want to come and give us a  
8 head's up on that at the subcommittee meeting, so that  
9 we can look at those issues, before they are totally  
10 out there, so we can give you some feedback on that.

11 It might be a good way to get some of these  
12 issues off.

13 CO-CHAIR SULLIVAN: That's a good point.

14 I guess we sort of gotten out of the mode in  
15 the interim meetings to become less of a technical  
16 subcommittee meeting or just a general planning  
17 meeting.

18 We need to get back to doing more of that.

19 MR. HEHN: And now there is more technical  
20 issues, and we need to address them. That would be

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1 helpful so it comes out in the end.  
2 MR. HO: Any other questions?  
3 (No response.)  
4 MR. HO: Thanks.  
5 CO-CHAIR SULLIVAN: Well, we are running a  
6 little behind, not that that doesn't happen.  
7 The next item is a little free form. We had  
8 a discussion of the document status last month, and  
9 there was a continuing desire to keep a regular item  
10 on document status.  
11 So at the back of the table, some of you may  
12 have already gotten it, and some of you may not.  
13 There is an update of our document status.  
14 I really don't have a prepared presentation  
15 other than to indicate that this is the current  
16 schedule that's dated the 12th of February, and it, in  
17 turn, sings or should sing to the items that we would  
18 be discussing in our March meeting.  
19 So I won't read through them all, but you  
20 can see which documents are upcoming.

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1 What we didn't do, and I think we talked  
2 about it but we didn't do it, was come up with a  
3 chronological listing of the documents.  
4 Right now, this is organized by type of  
5 document, but it's chronological within each type.  
6 But there is no general, chronological listing.  
7 So I would ask Richard if we could maybe do  
8 this in two parts. This is great, but the second part  
9 just would be a chronological listing of all the  
10 documents combined, and that way everyone could see  
11 from the top down which documents, what the sequencing  
12 of documents was.  
13 MR. KNAPP: Perhaps at the next RAB meeting,  
14 and maybe additional RAB meetings, we could have both  
15 sets of documents, or that type of schedule proposed  
16 by document and chronological schedule, so each month  
17 it could be updated and available to look at.  
18 CO-CHAIR SULLIVAN: So I think if we could  
19 do it as a package, because in some cases people will  
20 be looking at each grouping, like Site 12 or the fuel

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1 line. In other cases, they just want a general  
2 chronological listing of all the documents together.  
3 So I would just open it up to any commen'  
4 or questions concerning the documents. The number of  
5 documents is starting to increase now, and I could  
6 imagine it's hard to keep up with.  
7 MS. SHIRLEY: I have a stupid question: Did  
8 the fuel line removal action get done, is that  
9 completed?  
10 CO-CHAIR SULLIVAN: You mean the reporting?  
11 MS. SHIRLEY: No, no, the action itself.  
12 Were all the fuel lines removed?  
13 CO-CHAIR SULLIVAN: What we did physically,  
14 we removed or closed in place all of the fuel lines.  
15 It will be addressed in the remedial  
16 investigation, fuel line remedial investigation  
17 report, but it's possible there could be some tail  
18 ends, some small tail ends of piping that may or may  
19 not have been addressed in the removal. And we  
20 discussed that at one of our meetings with the

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1 agencies.  
2 I don't expect it to be significant, but,  
3 essentially, our objective in the field, and this was  
4 a year ago we finished this, was to remove or close in  
5 place.  
6 The majority of the lines were removed on  
7 TI. A few were closed in place where they ran under  
8 buildings. And then on Yerba Buena Island, the  
9 reverse was true: The majority of the lines were  
10 closed in place because they were in pretty good  
11 position since they were high above the water table.  
12 Plus trying to remove lines in the type of  
13 topography on Yerba Buena, we probably would have  
14 destroyed more of the island than we really would have  
15 gained by physically removing the fuel line.  
16 So some sections, short sections of fuel  
17 line on Yerba Buena Island were removed. But the  
18 majority of them were closed in place.  
19 MS. SHIRLEY: Okay.  
20 CO-CHAIR SULLIVAN: So we completed the

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1 field work. And then we issued a couple of weeks ago,  
2 or a month ago, the fuel line removal report. What it  
3 represented -- the bulk of the document was just  
4 data -- but what it represented was sampling that  
5 Tetratech did while the fuel line was being removed.

6 So it's kind of similar to the removal  
7 action, sort of, and then what's coming on the heels  
8 of that, or I think we already issued it or about to  
9 issue it, is the fuel line remedial investigation  
10 report.

11 So the fuel line removal report recommended  
12 areas to be further investigated.

13 And then the fuel line remedial  
14 investigation report, or the fuel line remedial  
15 investigation work plan is the work plan to  
16 investigate those areas.

17 MS. SHIRLEY: Okay. Thank you. That  
18 clarifies that.

19 CO-CHAIR SULLIVAN: So we are really in the  
20 beginning of the, it's kind of as if we pulled the

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1 tank, and we are in the beginning of the investigation  
2 process.

3 MS. SHIRLEY: All right.

4 CO-CHAIR SULLIVAN: Any other questions or  
5 comments?

6 With that, we will take a short break if we  
7 can, and then we can move into groundwater.

8 (Short break taken.)

9 CO-CHAIR SULLIVAN: Our next item is on the  
10 groundwater monitoring, and this is kind of in  
11 furtherance of a presentation we had in November,  
12 although not everyone was able to attend that meeting.  
13 So we are kind of recapping that a bit, and then  
14 talking more in particular about where we are now.

15 It's also a little bit of a preview of our  
16 annual report, which we are getting ready to issue in  
17 the next couple of weeks.

18 MR. KNAPP: Probably in about two weeks.

19 Yes. Like Jim said, we did look at this  
20 topic last fall, but we wanted to bring everybody

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1 up-to-date and provide a little more information,  
2 because we are a little further along in our  
3 monitoring program.

4 So I may sound a little repetitious. Bear  
5 with me if you heard the presentation last fall.

6 Also, at the back, there are handouts of  
7 these slides available, so you can follow along with  
8 that.

9 And then, also, there was an 11-by-17 map  
10 that is part of this presentation, too, that I will  
11 refer to at the appropriate time.

12 CO-CHAIR SULLIVAN: Does the map have just  
13 the IR groundwater?

14 MR. KNAPP: No. It actually has the UST.

15 CO-CHAIR SULLIVAN: Good.

16 MR. KNAPP: Okay. Just a real quick review  
17 of what is groundwater monitoring. What are we doing  
18 when we say we are going to go out and do groundwater  
19 monitoring, what does it do for us?

20 Well, there are a couple of things: One is

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1 to measure groundwater levels. By levels, we mean  
2 what is the depth to groundwater, and we can calculate  
3 elevation of groundwater knowing the depth to the  
4 groundwater, so we can essentially provide a map of  
5 the groundwater surface. Like we were saying a little  
6 earlier this evening, groundwater surface is something  
7 akin to a very low angled dome out here, where you  
8 have the highest portion in the center of the island  
9 and kind of radially out into all edges.

10 The other thing we do, of course, is  
11 chemical sampling. We sample to track concentrations  
12 and contamination over time.

13 As far as how many wells and how big a  
14 program we have at TI, we have a lot of wells out  
15 here. There are 83 of them that are active. When we  
16 say "active," that means we go out and sample them at  
17 least once a year for contaminants of concern.

18 There are also six wells on Yerba Buena  
19 Island. Those are all on our Site 11.

20 In addition, there are some UST sites with

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1 wells associated with those sites, and there is  
2 sampling of those UST site wells as well.  
3 So from our sampling data we can delineate  
4 the extent of the contamination. We can get an idea  
5 of the rate at which the contamination migrates. If  
6 it is attenuating, that is to say, if it is getting  
7 less over time, this data that we gather helps support  
8 our cleanup approaches.

9 And real quick, Chris' comments about  
10 phthalates, we were talking last fall about the PVC  
11 pipes. Essentially, our monitoring wells are two- or  
12 four-inch diameter PVC pipes with screen that allows  
13 groundwater to flow into the well.

14 Now, certain wells we may sample quarterly.  
15 That's, of course, once every three months; others are  
16 semiannually, twice a year; or maybe just once during  
17 the year, annually.

18 All of these samples are analyzed at off  
19 site laboratories, so it's a full-blown analytical  
20 type approach.

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1 MR. SAVAGE: Question.

2 MR. KNAPP: Sure.

3 MR. SAVAGE: The screen: What kind of a --  
4 is it holes drilled through the pipe.

5 MR. KNAPP: You could think of it as slots.  
6 Sometimes it's called a slotted screen. What they  
7 are, it's almost as if you took a fine knife and made  
8 horizontal slits every so often as you go around the  
9 PVC pipe itself.

10 In fact, in many decades, that's how they  
11 did that sort of hand approach. But, of course, now  
12 they are finely machined. There is a very large  
13 number of possible slot sizes that you can select.

14 And it depends on if your well is in  
15 something like a fairly clay formation or sandy or  
16 gravelly. That will determine how wide you want the  
17 slots to be.

18 CO-CHAIR SULLIVAN: Or, in some cases, if  
19 you actually have more than one groundwater aquifer.  
20 You have multiple aquifers. You use the slots to

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1 determine the sampling. In our case, we just have  
2 one.

3 MR. KNAPP: Yes. That's a good point.  
4 have water table aquifer, if you will, so,  
5 essentially, you hit groundwater. It's essentially  
6 almost all sand on Treasure Island. That's what we  
7 are monitoring is that groundwater body.

8 But in some cases you have various aquifers  
9 where you may want to have a couple of different  
10 screens, and you need to make sure there is some sort  
11 of mechanism where you don't have a chance of cross  
12 contamination or combining the water.

13 It's real simple on Treasure Island. You  
14 have just the one groundwater sample and one set of  
15 slotted casing.

16 This is where I want to call your attention  
17 to the groundwater map. There are a couple of  
18 different symbols on here. Most of the symbols are  
19 wells associated with the installation, restoration  
20 program. They are the blue symbols. So that includes

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1 not only the CERCLA sites but the nine sites that v  
2 put in the petroleum program.

3 The other symbol is a green one, and its  
4 wells are associated with UST sites. So there are a  
5 few of those scattered around the island.

6 But I call your attention to, number one,  
7 you can see there is, like I said, 83 wells on this  
8 map, plus the UST wells, so maybe 90 wells. They are  
9 pretty much around the periphery. That is where most  
10 of our sites are. So they are not scattered  
11 throughout the island, but they are very targeted for  
12 investigating contamination associated with past  
13 activities.

14 CO-CHAIR SULLIVAN: And then over on Yerba  
15 Buena Island in the IR program, there is only one  
16 location with monitoring wells. That's IR-11. There  
17 is only, at present, one UST location of monitoring  
18 wells, and that's UST 270.

19 MR. KNAPP: Four wells.

20 CO-CHAIR SULLIVAN: Six wells.

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1 MR. KNAPP: Six wells.  
2 And this is an example, decision tree  
3 analysis, to decide how frequently you sample the  
4 wells. I won't go through it, of course, but probably  
5 the important thing is that there is a systematic way  
6 of looking at information and arriving down here on  
7 the bottom on if sampling should be done at all, or  
8 semiannually, quarterly, annually, things of that  
9 sort.

10 Now, for the IR program, we started  
11 installing monitoring wells back in 1992, and we have  
12 data presented in our remedial investigation report,  
13 and also data in the Corrective Action Plan. That's  
14 for the petroleum only sites. We have UST reports  
15 that discuss results of sampling of UST sites, and  
16 then we also have quarterly groundwater monitoring  
17 reports. So actually you can add that to this bullet  
18 here.

19 This, actually, is a little outdated. The  
20 most recent quarterly groundwater sampling report

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1 that's been released discusses sampling that occurred  
2 in August of 1998. I believe that document was issued  
3 in January.

4 So we essentially sampled four times in  
5 1998 -- in January, May, August and in November -- and  
6 we released those first three quarterly reports. And  
7 now we are finishing up with the fourth quarter  
8 sampling, the report, that is. Sampling itself was  
9 finished on November 16th.

10 But this last report, we call it the 1998  
11 annual sampling report, it's much more comprehensive.  
12 It's looking at trends and data from all four quarters  
13 of sampling. We anticipate having that completed  
14 about the first week in March. So we will be  
15 releasing that document.

16 As far as this year, 1999, we are going to,  
17 once again, have a quarterly groundwater monitoring  
18 where we try to essentially have a whole other round  
19 of sampling in some wells which are sampled quarterly  
20 others semiannually, some annually.

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1 Two of the four sampling events, we're going  
2 to collect natural attenuation data, and I will talk a  
3 little bit more about that data. Essentially, we are  
4 going to have four events in 1999.

5 So we are working on getting this in place  
6 to where we can hopefully get out and start collecting  
7 groundwater next month in March.

8 Now, I mentioned natural attenuation. Just  
9 a quick definition of it: Essentially, attenuation is  
10 physical, chemical and biological processes that can  
11 reduce the mass, the toxicity, the mobility, the  
12 volume and the concentration of contaminants in soil  
13 and groundwater. So it's a good thing as far as the  
14 fact that there are natural processes going on which  
15 can reduce these chemical concentrations.

16 In some cases, they can reduce the  
17 concentrations below action levels.

18 So if you monitor natural attenuation, that  
19 is a possible cleanup alternative. So it's very  
20 important.

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1 MR. SAVAGE: I have another question.

2 MR. KNAPP: Sure.

3 MR. SAVAGE: If you would take a vertical  
4 section through some place that you monitor  
5 groundwater, you find soil surface in a certain way,  
6 and then you find the groundwater.

7 How much in depth does the groundwater exist  
8 in?

9 MR. KNAPP: Well, I'm not sure I know the  
10 answer to that.

11 We have some wells that have gone, oh, I  
12 think, about 50 feet or so. They still have  
13 groundwater.

14 You get into a clay layer which effectively  
15 doesn't have pore spaces for groundwater, and you  
16 probably would go out of that into maybe some other  
17 aquifer lower down.

18 MR. SAVAGE: I take it, then, that the water  
19 exists and you have to make a drilling and make space  
20 for the water to flow in to find out where the

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1 groundwater is, is that correct?  
2 MR. KNAPP: Well, you can see when you're  
3 drilling, when you encounter it.  
4 What we usually do down here is just sample  
5 continuously. So every four feet you drill, you bring  
6 up the soil samples.  
7 If you cross that interface between soil and  
8 saturated soil, you can see the groundwater. You can  
9 put your hand right where that level is. You can tell  
10 if the soil is saturated or not.  
11 But you can put a well in below that once  
12 you're in the groundwater, and the water will rise to  
13 the level that represents the level of groundwater in  
14 that area.  
15 So even if your slots are below that  
16 surface, just the natural hydraulics, if you will,  
17 will cause that water level in that pipe to represent  
18 the elevation of the water table at that point.  
19 MR. SAVAGE: Okay.  
20 MR. KNAPP: There are a couple of

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1 contaminants, type of contaminants at Treasure Island  
2 where natural attenuation is something that looks like  
3 it's reducing concentrations, and that's our petroleum  
4 and sulfur sites.  
5 In May and November of 1998, we collected  
6 groundwater samples. In May, 71 wells. In November,  
7 78 wells. We analyzed them for what we call indicator  
8 parameters. Chemical compounds that indicate the  
9 occurrence of biodegradation of microorganisms.  
10 And there is certain parameters that we talk  
11 about here. If you are having degradation of  
12 petroleum hydrocarbons, oxygen decreases -- this  
13 should actually be noted as iron increases. The  
14 oxidation state of the iron typically goes from plus 3  
15 to plus 2.  
16 Degradation of chlorinated solvents.  
17 And because we have a couple of sampling  
18 events, microorganisms are degrading petroleum  
19 hydrocarbons and chlorinated solvents.  
20 I wanted to kind of zero in on a couple of

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1 sites where we can show you a couple of examples of  
2 this occurring.  
3 Site 6 is the fire training school. Site  
4 12, of course, is the old bunker area and adjacent to  
5 one another.  
6 We see biodegradation of total petroleum  
7 hydrocarbons, indicator parameters, include a decrease  
8 in nitrates and sulfates, increase in ferrous iron,  
9 sulfide, methane. These are the sorts of things that  
10 indicate to us that biodegradation of petroleum  
11 hydrocarbons is occurring.  
12 And when we look at the TPH concentrations  
13 over time, we see what we call source area wells for  
14 those areas where we have the most contamination. We  
15 see decreases in the concentrations.  
16 And I have a couple of graphs in the handout  
17 that showed, at Site 6, TPH in gasoline and diesel  
18 decreasing; and, Site 12, extractibles decreasing.  
19 What we plotted are concentrations, and  
20 these are micrograms per liter so they are fairly high

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1 numbers. You should talk about TPH in milligrams per  
2 liter. For example, 1.4 milligrams per liter of TPH  
3 would be 1,400 micrograms.  
4 We have data beginning in February '95. We  
5 only sampled this well once in '98, so this one was  
6 where we did annual sampling.  
7 And we have a pretty good trend over time.  
8 The time is down here over days. So this is about  
9 three and a half years or so. We are getting a pretty  
10 good concentration. So even though it doesn't look  
11 like it's coming down too much in linear terms, it is.  
12 Similar sort of graph. Same well. TPH  
13 diesel concentration versus time.  
14 A little less data, a little more  
15 interpretation perhaps in the graph.  
16 MS. SHIRLEY: I have a quick question or  
17 suggestion on those graphs.  
18 MR. KNAPP: Sure.  
19 MS. SHIRLEY: It might help on those if you  
20 can put the variation, suspected variation on that

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1 line.  
2 MR. KNAPP: Statistical measure of the, like  
3 an R-squared correlation, coefficient.  
4 MS. SHIRLEY: Right.  
5 MR. KNAPP: This one, for example,  
6 unfortunately we are lacking a couple of diamonds up  
7 here for the data. So the R-squared would be  
8 indicating that it's maybe not quite as confident of a  
9 correlation.  
10 But, again, with the logarithmic scale, the  
11 trend is certainly encouraging.  
12 And moving onto chlorinated sites, our Site  
13 24 is a classic chlorinated solvent. Groundwater  
14 contamination. We are seeing biodegradation,  
15 chlorinated solvents.  
16 Chlorinated solvents are things like PCE,  
17 DCE. They are decreasing and, then, essentially, they  
18 are degradation products. One of them is  
19 1,2-dichloroethane. It's increasing in down gradient  
20 wells, so it's fitting the pattern of degradation.

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1 Here we are looking at the indicator  
2 parameters in dissolved oxygens, iron, manganese,  
3 methane and ethane. So, again, we are seeing natural  
4 attenuation processes that seem to reduce  
5 concentrations of chlorinated solvents in down  
6 gradient directions.  
7 So, in conclusion, we have confirmed the  
8 occurrence of biodegradation of petroleum hydrocarbons  
9 and chlorinated solvents, and we have some estimate of  
10 the rate of biodegradation.  
11 But, realistically, we have two sampling  
12 events, two data points. So we would, again, we will  
13 be collecting these sorts of indicators in 1999  
14 getting additional sampling events to get a better  
15 handle on this information and the rates that  
16 degradation may be occurring.  
17 That's all I have.  
18 MR. SAVAGE: Question.  
19 MR. KNAPP: Sure.  
20 MR. SAVAGE: Where do the chemicals being

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1 analyzed go, do they evaporate through the soil? What  
2 happens to the substances you're analyzing for that?  
3 MR. KNAPP: Well, you're getting,  
4 essentially, microorganisms are eating, they are using  
5 the petroleum hydrocarbons as fuel or food, so they  
6 are metabolizing them.  
7 MR. SAVAGE: So the substance is changing,  
8 chemically changing in form.  
9 MR. KNAPP: Yes.  
10 So you have a, say, a long straight chain  
11 hydrocarbon that's essentially getting -- well,  
12 actually, shorter ones are more preferred by the  
13 microorganisms, but they are breaking those down and  
14 turning them into small, like CO<sub>2</sub>, water, things of  
15 that sort.  
16 MR. SAVAGE: Okay.  
17 MR. BRENNAN: With the, what are they,  
18 chlorinated hydrocarbons? I mean, you have the hazard  
19 also, the degradation goes through worse -- the  
20 daughters are worst than the first chemicals, so that

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1 may be bad. We may end up with worse stuff in there  
2 with natural degradation.  
3 MR. KNAPP: There is a danger of vinyl  
4 chloride being produced, degradation of chlorinated  
5 solvents.  
6 MR. BRENNAN: Right.  
7 MR. KNAPP: There are a lot of factors that  
8 affect just how much, if you're getting vinyl  
9 chloride, whether aerobic or anaerobic conditions,  
10 things of that sort.  
11 Right now, our sampling shows low to nil  
12 concentrations of vinyl chloride, but we probably will  
13 see some increase in it.  
14 Just how much remains to be seen. But  
15 things like the DCE are not more hazardous.  
16 MR. BRENNAN: Right.  
17 It's just the hazard with chlorinated  
18 solvents.  
19 MR. KNAPP: Yes.  
20 MR. BRENNAN: Because you could go to that

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1 step and be much worse off.  
2 MR. KNAPP: So we have a good distribution  
3 of our monitoring wells as far as more in the source  
4 area and this down gradient, and, essentially, the far  
5 end.

6 So we feel like we can look for vinyl  
7 chloride, say, in the center and down gradient further  
8 along where you might see it as appearing as a  
9 degradation product.

10 That's very true. So far, we haven't really  
11 seen much at Site 24, but I think we need to, we could  
12 use more data to get a better handle on it.

13 MR. BRENNAN: Okay.

14 MR. HEHN: How is that variation from Site  
15 24 to Site 21?

16 MR. KNAPP: Well, Site 21 is a little more  
17 subtle, and, in part, because the concentrations are a  
18 fair amount less.

19 So we pick Site 24 as something that we felt  
20 we had created information from the data collected.

1 The two events of data show exactly how  
2 strong a case we have, but we will address that in the  
3 report. We could say something.

4 MR. HEHN: The only thing about Site 21, it  
5 has lower concentrations. It is also closer to the  
6 bay marshes.

7 So you're doing that, plus, moving forward,  
8 more marina development. That issue will probably  
9 come up sooner.

10 MR. KNAPP: Yes. Our Site 24 source,  
11 although it was higher concentrations, was quite a bit  
12 more inland and in a less profile area.

13 Site 21 will come to the forefront along  
14 with Sites 25 and 15 with the marina, potential marina  
15 development.

16 CO-CHAIR SULLIVAN: I do want to add, for  
17 the UST sites, we are not quite as far along in the  
18 analysis. In fact, we are meeting with our current  
19 consultant, AGS, later this week to review where we  
20 are in the program.

1 Fortunately, the UST, the non-IR UST sites  
2 are not as impacted, but there is exceptions to that,  
3 such as Site 270 on Yerba Buena Island, which is  
4 really perplexing, and then even behind the Fog Wa  
5 next door here, 227, there is a monitoring well where  
6 we see higher concentrations.

7 We hope to have a new, we have been without  
8 a UST program manager since last September, and so we  
9 are expecting to have someone filling that position  
10 the next month or so, we hope. And I think that  
11 program will get reenergized again.

12 Any other questions or comments concerning  
13 groundwater?

14 (No response.)

15 CO-CHAIR SULLIVAN: Okay. We put in an item  
16 for Chris to make any comment concerning the recent  
17 RAB caucus and DERTF meeting.

18 MR. BRENNAN: I might say that we put that  
19 off to another meeting, since we have only four  
20 community members here. It's hardly much of a

1 presentation.

2 CO-CHAIR SULLIVAN: Is there anything  
3 timely nature that you feel you would want to say?

4 MS. SHIRLEY: No. It was quite successful.

5 I will just briefly say that 60 people, for  
6 the benefit of Jim who might want to hear what is  
7 going on, 60 RAB members from all over the United  
8 States. We made five or six consensus statements to  
9 DERTF. As you can well imagine, it was quite a chore  
10 to get everyone to agree on what to say on those five  
11 or six subject areas.

12 Some of the areas were environmental  
13 justice; what it means to be, what community  
14 acceptance means; the role of RABs; what resources  
15 RABs need that they don't have now, and things like  
16 that. And then there were a couple of more technical  
17 topics, which I can't remember the subject matter off  
18 the top of my head. But it was quite successful.

19 DERTF made a resolution, which I hope gets  
20 transmitted down to your level, EFA West, which i

1 that a representative from the RAB should sit at BCT  
2 meetings, which is not a problem here, but it is just  
3 about everywhere else.  
4 CO-CHAIR SULLIVAN: So that's something  
5 that's not happening at other locations.  
6 MS. SHIRLEY: It's not happening at other  
7 locations.  
8 DERTF has never made a joint statement  
9 before, and this is what they chose to do. So they  
10 resolved, they urged DoD to make that happen.  
11 Talked a lot about institutional controls.  
12 My favorite comment was from a fellow from Colorado  
13 who said, "We are in good shape in Colorado with  
14 respect to institutional controls. All we lack are  
15 good controls and good institutions."  
16 And so that was pretty much the gist of it.  
17 No one really still knows what to do about these  
18 things yet. They are being used more and more.  
19 And that was about it.  
20 CO-CHAIR SULLIVAN: And the meetings are

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1 twice annually.  
2 MS. SHIRLEY: Twice a year. The next one  
3 will be in Washington, D.C.  
4 They are trying to save money by doing one  
5 meeting a year now in Washington, D.C. instead of  
6 traveling both times, both meetings.  
7 So the next one will be in May in  
8 Washington, D.C., ARC will be bringing out RAB members  
9 for that one as well. I will let you know.  
10 MR. BRENNAN: Well, I think we talked about  
11 the newsletter that the Mare Island group does, and,  
12 again, when we have more RAB members maybe we could  
13 look at that.  
14 CO-CHAIR SULLIVAN: In fact, I have some  
15 extra copies of the Mare Island newsletter.  
16 And, actually, they have only done two.  
17 Their latest one, the one that we have seen, I think  
18 was dated in August of last year.  
19 MR. BRENNAN: Right.  
20 They said they get about one a year. They

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1 are pretty hard to do.  
2 CO-CHAIR SULLIVAN: But it's a nice  
3 publication. Their last one was about eight pages and  
4 it had a lot of good information in it.  
5 MR. BRENNAN: I think the most successful  
6 RAB was the one in Maine. There is a Navy base in  
7 Maine. That was the happiest RAB reporting at the  
8 group. They are the most successful, most  
9 communication.  
10 I think we have, you know, like the fact  
11 that we can go to the BCT meetings are very important.  
12 A lot of RABs don't get a choice.  
13 MR. HEHN: What made them so happy?  
14 MR. BRENNAN: Just good communication, and  
15 the Navy works very close with the RAB.  
16 Part of it is, a lot of the people are all  
17 from the community, the Navy people and the people on  
18 the RAB have always been together. So there is a lot  
19 of push to work together.  
20 MS. SHIRLEY: One of the RAB members

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1 suggested jokingly -- when they were looking at a  
2 confusing mass of groundwater data that nobody could  
3 figure out -- well, what we need to do is go on a RAB  
4 retreat and figure this out, and the Navy paid for it.  
5 Everybody went on a three-day retreat to some summer  
6 camp and figured it all out.  
7 MR. HEHN: Do I hear that as a motion?  
8 MS. SHIRLEY: But it's a lot of fun. I urge  
9 you to come next time. Very intense. Five days.  
10 Nonstop. 14 hour days.  
11 MR. HEHN: Can we do that as a TAPP grant?  
12 Ernie, is that okay?  
13 (Laughter.)  
14 CO-CHAIR SULLIVAN: Well, there may be some  
15 communications related training. I mean, there is  
16 probably something in that vein without necessarily  
17 going to a resort or something.  
18 MS. SHIRLEY: Yes. That was just an example  
19 of how far this base will go.  
20 CO-CHAIR SULLIVAN: Thank you.

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1 Into program updates. Any announcements?  
2 The deadline was extended to 1 March.  
3 MS. SHIRLEY: 1 March it closes. I doubt  
4 very much it will be extended again, but who knows  
5 with this thing?  
6 The interesting thing about this I found  
7 out -- I don't know if I said this last time -- but  
8 this is the first time a public comment period has  
9 been opened on an environmental justice basis. So  
10 that's sort of the big story there.  
11 And the rule on where you throw lead debris,  
12 the proposed rule, that comment period has been  
13 extended to April 2nd. So if you want to make  
14 comments on that rule, you still have time.  
15 CO-CHAIR SULLIVAN: And there was an article  
16 concerning the proposed lead rule in the S.F. Weekly  
17 this last week?  
18 MS. SHIRLEY: That was the Guardian.  
19 CO-CHAIR SULLIVAN: The Guardian.  
20 MS. SHIRLEY: The S.F. Weekly was the

1 Giants, which, fortunately, you don't have to worry  
2 about.  
3 CO-CHAIR SULLIVAN: Okay. We had our BCT  
4 meeting on the 1st of February, and, let's see. We  
5 didn't have a RAB member there.  
6 MS. SHIRLEY: I was tied up.  
7 CO-CHAIR SULLIVAN: City was there with  
8 their consultant, Geomatrix.  
9 And we should have those minutes, I think we  
10 have a draft coming out or just out, I've seen the  
11 minutes of that meeting. So you should be getting the  
12 minutes of that meeting after we've reviewed the draft  
13 in the next three weeks.  
14 Some items we covered were human health risk  
15 assessment, particularly as it relates to a  
16 construction worker or various different types of  
17 scenarios involving a construction worker or utility  
18 worker; vertical extent of constituents, and we  
19 E-mailed out kind of a working paper to the RAB  
20 technical subcommittee, I think, about a week or so

1 ago; and then, as usual, we talked about the schedule;  
2 we talked a little bit about our UST 270 and getting  
3 that program, getting that site kind of jump started  
4 again; and then also a little bit about UST 180, wh.  
5 is adjacent to IR 25.  
6 MS. SHIRLEY: Jim, have you put my new  
7 E-mail in? I didn't get any E-mails.  
8 CO-CHAIR SULLIVAN: I used the general ARC  
9 one.  
10 MS. SHIRLEY: If you could change it over to  
11 the other one, it would be useful. I sometimes don't  
12 get the ARC general ones.  
13 CO-CHAIR SULLIVAN: I think I meant to, and  
14 then when I went to look for it, I couldn't find it.  
15 MS. SHIRLEY: All right.  
16 CO-CHAIR SULLIVAN: I think that is  
17 basically the highlights, and the minutes are about 15  
18 pages.  
19 On into organizational business. I guess I  
20 will turn it over to Paul and take my cues from him.

1 MR. HEHN: Chris, do you want to mentio  
2 something about your suggestion during the break about  
3 the excavation program?  
4 MS. SHIRLEY: We were talking at the break,  
5 and I thought it would be educational if we could come  
6 look at the excavation when it's going on, the removal  
7 action.  
8 What would it take to get us on base for a  
9 day or so to take a look?  
10 CO-CHAIR SULLIVAN: I think that would be  
11 great.  
12 In fact, we did do, we had, in fact, when we  
13 were doing some of the RI sampling, we had a kind of a  
14 field trip a couple of years ago.  
15 MS. SHIRLEY: Right.  
16 CO-CHAIR SULLIVAN: I would think, at a  
17 minimum, I know we ran into the issue of the 40-hour  
18 health and safety training and certification.  
19 Although, I think if your, depending on wha'  
20 your distance might be from the activity, that

1 wouldn't necessarily be a necessity.  
 2 MS. SHIRLEY: I just thought it would be  
 3 interesting for the RAB members to look.  
 4 CO-CHAIR SULLIVAN: I think that would be  
 5 great to actually see them, see the removal in action.  
 6 MS. SHIRLEY: We can't see from the outside.  
 7 Hunter's Point, there is a cafe right outside the gate  
 8 on the hill. I sit up there with binoculars and watch  
 9 the bulldozers. I can't do that here.  
 10 CO-CHAIR SULLIVAN: I don't see any reason  
 11 why, you know, given the fact that we can get  
 12 community members onto the base, and project sites are  
 13 fairly small and not that intensive, that we wouldn't  
 14 be able to have a field trip or trips.  
 15 MS. SHIRLEY: We could make it less of an  
 16 intellectual exercise here.  
 17 CO-CHAIR SULLIVAN: I think that's a great  
 18 idea.  
 19 MR. GALANG: Maybe we could have a picnic.  
 20 CO-CHAIR SULLIVAN: Don't promise too much,

1 Ernie.  
 2 MR. BRENNAN: Take a bag of dirt home.  
 3 CO-CHAIR SULLIVAN: Well, the Delancey  
 4 Street Cafe may be opening sometime. I have not seen  
 5 an opening date, but they are moving pretty  
 6 vigorously, so it may be opening sometime soon.  
 7 MR. HEHN: Maybe have the culinary academy  
 8 cater something out there.  
 9 MR. RIST: Well, it's next to the water.  
 10 You could just get the Navy to run a ferry. Just park  
 11 it offshore, have champagne, take a cruise.  
 12 MR. HEHN: This is getting better all the  
 13 time.  
 14 CO-CHAIR SULLIVAN: I think that's an  
 15 excellent idea.  
 16 And I would hope, as we get into more field  
 17 activities, there is certainly no reason why the RAB  
 18 couldn't be out on field trips.  
 19 MR. HEHN: So as we get scheduled into that,  
 20 and as that gets into the process, we might want to

1 try to have a few days where we could go out and watch  
 2 the progress.  
 3 CO-CHAIR SULLIVAN: Yes.  
 4 So, Ernie, we will have to lock in on the  
 5 dates with IT, once we get close to the point, and  
 6 when they will actually be starting the field work.  
 7 MR. HEHN: I'm assuming that's a fairly  
 8 extensive amount of excavation.  
 9 MR. GALANG: It's a about a week's  
 10 operation.  
 11 MR. HEHN: We could get a time to try to  
 12 schedule something in.  
 13 CO-CHAIR SULLIVAN: I think the schedule  
 14 shows sometime in the April time frame, or sometime  
 15 around there?  
 16 MR. GALANG: April-May.  
 17 MR. HEHN: On the updated membership roster,  
 18 I will be working on that. I just got that from Jim.  
 19 I will go ahead and revise that.  
 20 Again, if you have any changes, or E-mails,

1 addresses or anything else that you want to put on  
 2 there, we will bring that up to speed for all our  
 3 members and our various BCT members.  
 4 CO-CHAIR SULLIVAN: If you have any changes,  
 5 please pencil them in or pen them in on the sign-up  
 6 sheets here, because we use the sign-up sheets from  
 7 the monthly meetings to update that information.  
 8 So any change in address, phone number or  
 9 especially E-mail addresses.  
 10 MR. HEHN: I guess on the TAPP proposal,  
 11 that's in now. Jim was saying that's still  
 12 outstanding.  
 13 And it sounds like, Chris, that maybe the  
 14 idea of sort of giving the various RAB members a good  
 15 idea on institutional controls is maybe more broad  
 16 based than just Treasure Island. It may be very  
 17 useful for other RABs as well.  
 18 MS. SHIRLEY: Everybody is looking for  
 19 information.  
 20 MR. HEHN: So what I will talk to Jim about

1 was that maybe he can give us some feedback as to what  
2 kind of concerns that they have with that proposal,  
3 and maybe we can revise it a little bit to address  
4 some of those concerns to get that through and get it  
5 going.  
6 MS. SHIRLEY: I agree.  
7 CO-CHAIR SULLIVAN: We thought we could make  
8 part of the interim meeting kind of a working session  
9 on that.  
10 MS. SHIRLEY: Sounds good.  
11 So have you gotten anything specific?  
12 CO-CHAIR SULLIVAN: Yes. I have gotten  
13 several E-mails with comments.  
14 MS. SHIRLEY: Good.  
15 CO-CHAIR SULLIVAN: I will distill that and  
16 bring it to the interim meeting.  
17 MR. HEHN: Could you send that out as an  
18 E-mail, say, a week ahead of time?  
19 CO-CHAIR SULLIVAN: Yes. I will try to send  
20 something out to look at it before the meeting.

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1 MR. HEHN: So we can be thinking about what  
2 kind of revision we might want to make based on the  
3 comments that come back, rather than trying to put it  
4 all together right there at the meeting. That will  
5 give us a chance.  
6 MS. SHIRLEY: That would be good.  
7 MR. HEHN: And as Nathan said, we want to  
8 look at the possibility of putting together maybe a  
9 newsletter.  
10 That could be another place for a TAPP  
11 grant, essentially, to put something, help that with  
12 part of our public relations process. Maybe get  
13 somebody to help us out with a newsletter.  
14 That may be something we want to think about  
15 as well for a potential TAPP grant proposal.  
16 And other than that, that's all I have.  
17 CO-CHAIR SULLIVAN: Okay. Upcoming document  
18 report. Actually, it's kind of superfluous, because  
19 we are already starting to cover that in the document  
20 status. So I'm not sure there is really anything new

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1 there.  
2 Any open questions or discussion?  
3 (No response.)  
4 CO-CHAIR SULLIVAN: As far as agenda items  
5 for next meeting -- and Ernie and Richard, you have to  
6 QA/QC this for me to make sure I got this right -- but  
7 just based on what I could see, it looks like, well,  
8 we will have, by March we will have the draft final  
9 Site 12 report out or about out?  
10 MR. KNAPP: I don't know if it will be out,  
11 but we could give a preview of what it will contain.  
12 CO-CHAIR SULLIVAN: If it isn't out by the  
13 March meeting, it will be out prior to the April  
14 meeting.  
15 MR. KNAPP: That will be about the time the  
16 April meeting will come out.  
17 CO-CHAIR SULLIVAN: So that's still good to  
18 have on there.  
19 And then we will have a draft final while  
20 we, I think, I just got an internal draft of the

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1 offshore, so we will probably likely have that out or  
2 or near the March meeting.  
3 MR. KNAPP: Yes.  
4 CO-CHAIR SULLIVAN: And then we have some  
5 CAP documents coming out.  
6 MR. GALANG: By next week, early March.  
7 CO-CHAIR SULLIVAN: If they came out in  
8 early March, we would have to discuss them at the  
9 March meeting, so that would stay on.  
10 And then I keep calling this the remedial  
11 investigation work plan, but it should be the draft  
12 fuel line CAP work plan. It's the investigation plan  
13 for the fuel line.  
14 And that document should be out in . . .  
15 MR. KNAPP: End of this month.  
16 CO-CHAIR SULLIVAN: By the end of the month.  
17 So all four of those items would need to be  
18 discussed in part. So that's starting to become a  
19 pretty busy meeting.  
20 And then the following month, we may have

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1 the onshore RI report pending resolution of the TPH  
2 screening level. And that's what it is really  
3 dependent on.

4 MR. HEHN: Is the resolution of the TPH  
5 screening level also -- I think it would affect these  
6 two other CAP documents as well, the investigation  
7 plans and work plans, is that correct, as to how those  
8 are, what those focus on, are based on, and that kind  
9 of thing?

10 CO-CHAIR SULLIVAN: To some extent.

11 I think we are trying to work around it, at  
12 least to get some of these documents out.

13 We are kind of stuck with the final RI  
14 report with the CERCLA sites. We can't really go any  
15 farther.

16 But you're right. The screening levels  
17 factor in these other documents we have been trying to  
18 work around, especially with soil. It looks like we  
19 may have a agreement to use 447, so we have been using  
20 that, at least in our draft documents.

1 What's really the issue is the screening  
2 levels for the groundwater.

3 And then the, I probably should have taken  
4 for the EIS, I probably should have taken the  
5 tentative May '99 off. I can't even project anything  
6 anymore. It's out of our program here. It's not part  
7 of Ernie and my program. It's being handled  
8 separately from the cleanup program. It seems to be  
9 up on its own schedule.

10 I think it will be out sometime, I really  
11 think it will be out sometime this year, but I think  
12 I'm going to stop predicting when.

13 And, of course, the Corrective Action Plan  
14 for the petroleum site is affected by the screening  
15 levels.

16 So our next meeting is also on the 16th of  
17 the month, in March.

18 And the April meeting falls a little later  
19 in the month on the 20th.

20 The next interim meeting and technical

1 subcommittee meeting will be Wednesday the 3rd, and I  
2 always reconfirm it with Pat. She's indicated that we  
3 can continue to use PG&E on an ongoing basis.

4 The next BCT meeting is on the 1st of March,  
5 and that's going to be at Geomatrix consultants  
6 offices downtown. And so the meeting agenda will have  
7 the address on that. But it's right downtown near  
8 Embarcadero Center.

9 MR. KNAPP: 100 Pine Street.

10 CO-CHAIR SULLIVAN: 100 Pine Street?

11 MR. GALANG: 10th floor.

12 MR. KNAPP: 10th floor.

13 CO-CHAIR SULLIVAN: And then as Martha had  
14 mentioned, the next Development Authority meeting will  
15 be Wednesday, the 10th of March.

16 They are now meeting on the second Wednesday  
17 of the month instead of the third Wednesday. So their  
18 meetings will always be before our regular RAB  
19 meetings.

20 The meeting location has now changed since

1 they reopened City Hall to City Hall up on the 4th  
2 floor. So don't make the mistake I did and go to the  
3 Ferry Building and find yourself all alone.

4 And I would expect they would, since those  
5 are the official meeting rooms in the City, I would  
6 expect that those meetings to be generally in that  
7 location at City Hall.

8 Any other comments or discussion before we  
9 close the meeting?

10 MR. HEHN: One thing, Jim.

11 As you get further along in this process of  
12 discussion on the vertical extent of the contamination  
13 for the various IR sites, that might be something we  
14 want to add to an agenda at some point as we sort of  
15 reach some conclusions on some of those sites as to  
16 what the consensus is about the extent of the  
17 contamination, and what the decision factors were  
18 about whether or not there was more sampling that  
19 needed to be done there, so we are understanding that.

20 So this is a good summary of that. We might

1 want to have a presentation on that.

2 CO-CHAIR SULLIVAN: Does anybody have a  
3 better feel for the time line to reach closure on  
4 that? I just don't have a feel for that. Is that  
5 something we might be ready to do in March? I just  
6 don't have a feel for that particular item.

7 But it would have to be fairly soon, within  
8 the next month or two in order to drive the other  
9 documents.

10 MR. KNAPP: We are close to closure on most  
11 sites, and so it's something that we could talk about.

12 CO-CHAIR SULLIVAN: Well, it's going to be  
13 on the agenda for our next BCT meeting, so it may be  
14 potentially an agenda item for the March RAB meeting,  
15 too.

16 MR. HEHN: Okay.

17 CO-CHAIR SULLIVAN: It looks like  
18 potentially the March meeting could get pretty busy.

19 And as Paul pointed out, we will probably  
20 have to focus on the documents that are out, and maybe

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1 the ones that aren't quite out, we may not have quite  
2 enough room for at that meeting.

3 MR. HEHN: Okay.

4 CO-CHAIR SULLIVAN: Okay. Well, thank you  
5 very much.

6 And we will either see you at the interim  
7 meeting, well, either at the BCT meeting on the 1st or  
8 the interim meeting on the 3rd, or at our next regular  
9 meeting a month from today on the 16th of March, the  
10 day before St. Patrick's Day.

11 (The meeting adjourned at 9:30 p.m.)

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