

HUNTERS POINT SHIPYARD
RESTORATION ADVISORY BOARD MEETING MINUTES
26 AUGUST 2004

These minutes summarize the discussions and presentations from the Restoration Advisory Board (RAB) meeting held from 6:12 p.m. to 8:10 p.m. on Thursday, 26 August 2004, at Building 101 at Hunters Point Shipyard (HPS). A verbatim transcript was also prepared for the meeting and is available in the Information Repository for HPS and on the internet at www.efds.w.navy.mil/Environmental/HuntersPoint.htm. The list of agenda topics is provided below. Attachment A provides a list of attendees, and Attachment B includes action items that were requested and/or committed to by RAB members during the meeting.

AGENDA TOPICS:

- 1) Welcome/Introductions/Agenda Review
- 2) Approval of Meeting Minutes from 22 July 2004 RAB Meeting
- 3) Navy Announcements
- 4) Community Co-chair Report/Other Announcements
- 5) Update on the HPS Radiological Program
- 6) Subcommittee Reports
- 7) Community Comment Period
- 8) Adjournment

MEETING HANDOUTS:

- Agenda for 26 August 2004 RAB Meeting
- Meeting Minutes from 22 July 2004 RAB Meeting
 - Includes Action Items from 22 July 2004 RAB Meeting
 - Includes Table 1, RAB Roll-Call Sheet
- Monthly Progress Report, July 2004
- PowerPoint Presentation, Naval Sea Systems Command (NAVSEA) Hunters Point Shipyard, Historical Radiological Assessment (HRA) Update, 26 August 2004
- Meeting Minutes, HPS RAB, Membership/Bylaws & Community Outreach Subcommittee, 11 August 2004
- Meeting Minutes, HPS RAB, Lowman Radiological Subcommittee, 21 July 2004
- Meeting Minutes, HPS RAB, Technical Review Subcommittee, 18 August 2004
- Handout, HPS RAB, Draft Proposed Bylaws

Welcome / Introductions / Agenda and Meeting Minutes Review

Robert Surber, facilitator, called the meeting to order at 6:12 p.m. Mr. Surber stated that he would be filling in for Marsha Pendergrass that evening. All attendees then made self-introductions. Mr. Surber asked if there were any changes to the agenda. Barbara Bushnell, RAB member, stated that it was her understanding that the subcommittee reports would take place during the first part of the meeting and asked if this was correct. Keith Forman, RAB Co-Chair, responded that the schedule is flexible and that Ms. Pendergrass had previously recommended moving the order of subcommittee reports.

Mr. Surber solicited comments on the 22 July 2004 RAB meeting minutes. Georgia Oliva, RAB member, commented that as stated in the July 2004 meeting minutes, she had requested the Building 322 survey report. During the July 2004 RAB meeting, Pat Brooks, Navy Remedial

1 Project Manager (RPM), had stated that he would provide a copy of this report; however, Ms.
2 Oliva had not yet received it. Mr. Forman agreed to follow up with Mr. Brooks on this action
3 item.

4 Jesse Mason, RAB member, inquired about the availability of the Economic Subcommittee
5 meeting minutes from August 2004. Carolyn Hunter, SulTech, agreed to distribute hard copies
6 of the Economic Subcommittee meeting minutes to the RAB. Lea Loizos, RAB member, made a
7 clarification to the July 2004 RAB meeting minutes. Ms. Loizos stated that the Technical
8 Review Subcommittee was considering having the Navy give a preview of future RAB meeting
9 technical presentations during Technical Review Subcommittee meetings. Mr. Surber called for
10 a motion for the RAB to approve the meeting minutes. The RAB approved the 22 July 2004
11 meeting minutes. .

12 Mr. Surber reviewed the action items contained in the July 2004 meeting minutes and asked for
13 the status of each item. The first item regarding the AMC cranes at Dry Dock 4 was carried over
14 to the August 2004 action item table. The second item regarding potential storage bunkers was
15 carried over to the August 2004 action item table. Maurice Campbell, RAB Co-Chair, stated that
16 he had located one part of a two-part videotape. When the second part is located, he will make
17 the information available to the Navy. Mr. Mason commented that several years before, Teresa
18 Coleman, community member, had mentioned a hill with a potential bunker. Mr. Forman asked
19 Mr. Mason to coordinate with Mr. Campbell regarding providing the Navy with this information.
20 Mr. Campbell mentioned that he and Raymond Tompkins, RAB member, had previously
21 investigated a 3-foot aboveground structure, possibly a ventilation shaft, filled with rocks. Mr.
22 Campbell would provide this information to the Navy also.

23 The third action item regarding the field trip to view the zero-valent iron (ZVI) site was carried
24 over to the August 2004 action item table. Ms. Loizos stated that she was coordinating the field
25 trip with Ryan Ahlersmeyer, Navy RPM. The field trip was tentatively scheduled for the week
26 of 13 September 2004. Ms. Loizos asked for a show of hands to indicate interest in attending the
27 ZVI field trip. Seven people indicated that they would be interested in attending the field trip on
28 a weekday. Three people indicated that they would like to attend but were unable to attend a
29 weekday trip. Mr. Forman stated that a smaller group was preferable for viewing purposes and
30 that a second field trip could be planned if necessary. A sign-up sheet was passed around to
31 solicit interest in the ZVI field trip. Once a tentative date is scheduled, Ms. Loizos will contact
32 those who signed up to attend the ZVI field trip.

33 The action item regarding the provision of local background levels of radiation by the U.S.
34 Environmental Protection Agency (USEPA) will be carried over to the August 2004 action item
35 table. Michael Work, USEPA, stated that his main technical support person, Steve Dean, has
36 been out of the office most of the past month. The next two action items regarding the return of
37 the map index to Building 101 and the mailing of the proposed membership bylaws to RAB
38 members were completed to the satisfaction of the RAB.

39 The next action item was for the Navy to provide the "Draft Final Parcel A Finding of Suitability
40 to Transfer (FOST), Revision 3," to interested RAB members. Copies of this report were sent to
41 three RAB members. In addition, Keith Tisdell requested a copy.

42 The final action item regarding the feasibility of providing the Anna E. Waden library with HPS
43 documents on compact disc files was completed to the satisfaction of the RAB.

44 Navy and Community Co-Chair Reports/Other Announcements

45 Mr. Forman stated that although the RAB meeting will likely return to Dago Mary's Restaurant
46 next month, he would inform the RAB as soon as possible if the venue is unavailable. Mr.

1 Forman recommended that RAB members think about potential alternative meeting locations in
2 case Dago Mary's Restaurant is unavailable in the future.

3 Mr. Campbell thanked Ahimsa Sumchai, RAB member, for taking action when she saw a man
4 lying on the sidewalk on a recent evening and saving his life. Mr. Campbell also encouraged
5 members to participate in the subcommittee meetings.

6 **Reminder: The next RAB meeting will be held from 6:00 to 8:00 p.m., Thursday evening,**
7 **23 September 2004, at Dago Mary's Restaurant, Building 916 at HPS.**

8
9 **** Due to delays in transfer of the ownership and scheduled renovations at Dago Mary's,**
10 **the HPS monthly RAB meeting must be moved. The September 23, 2004 RAB meeting will**
11 **be held in Building 101 on HPS.**

12 Update on the HPS Radiological Program

13 Laurie Lowman, Navy Radiological Affairs Support Office (RASO), stated she would provide an
14 update on the HRA program. Ms. Lowman stated the responses to comments on the draft final
15 HRA report were distributed on 27 July 2004. Ms. Lowman only received one comment back on
16 the responses. The comment was from USEPA and has been addressed. Ms. Lowman added
17 that one additional responder was Barbara George of Women's Energy Matters. Ms. Lowman
18 will respond to Ms. George's comment soon.

19 Ms. Lowman stated that for the final HRA report, all responses to comments were incorporated
20 into the document, including the reassessment of Section 8 and contamination and migration
21 potentials. Building 322 in Parcel A was added as an impacted site. The U.S. Geological Survey
22 (USGS) aerial photographs provided by Mr. Campbell were included into the document. A
23 building use comparison table was added that included information from the map found in
24 Building 101. This map was hand-painted on a 5- by 8-foot piece of plywood. A building list
25 from the map was compared to other lists. Based on this list, the map is believed to have been
26 created in 1951 with buildings subsequently added to it. For example, Building 815 is included
27 on the map but was not built until 1955. In response to numerous comments and concerns,
28 sediment as a potential contamination and migration pathway was added to every site considered
29 impacted and listed in Section 8 as well as those listed in Section 7 with a definition.

30 Three additional interviewees about past HPS operations were identified, but repeated attempts
31 to contact them were unsuccessful. These possible interviewees include Ms. Kennedy's
32 grandson, a Bayview community member, and an individual who had contacted USEPA about
33 waste stored or disposed of on Parcel A. The third possible interviewee is a retired former Navy
34 worker who decontaminated an Operation Crossroads ship.

35 The HRA team, including Ms. Lowman, Mr. Haney, and Mr. Polyak, performed a detailed final
36 document review. The final HRA report was sent for print production, and the publication date
37 is scheduled for 31 August 2004. Ms. Lowman stated the publication of the final document does
38 not mean that the assessment process is complete; rather, this document provides a "snapshot in
39 time." RASO will continue to investigate and interview. Additional information may be
40 published in site-specific reports or as addenda to the HRA report.

41 Mr. Mason commented that he has met prior shipyard workers and inquired if these people could
42 still be involved in the assessment. Ms. Lowman responded that she would be happy to contact
43 them if their information was provided.

44 Ms. Lowman showed a picture of former Building 322. The building was surveyed and
45 removed, and no contamination was found. The debris was surveyed, released, and disposed of

1 off site. The concrete pad was surveyed and removed. No contamination was found. A Final
2 Status Survey was performed, which is a Multi-Agency Radiological Survey and Site
3 Investigation Manual (MARSSIM) process to release a former radiologically impacted site. The
4 survey was performed on the building footprint and the immediate surrounding area. Ms.
5 Lowman showed a picture of the current site.

6 Ms. Lowman mentioned concerns regarding the selected reference area and noted that Mr. Dean
7 from USEPA will provide some additional information regarding background radiation levels.
8 Ms. Lowman noted that background areas are selected based on similarities in age, construction,
9 and environment, and no history of radiological use. The environment of the background area
10 needs to be similar to the investigation area because of naturally occurring radioactive material.
11 Comparison readings are taken using the same instrumentation used for the Final Status Survey.
12 Comparison samples are collected from the background and investigation areas. Readings and
13 sample results should be consistent with those at other reference areas. Building 901 was used
14 as the reference area for the Final Status Survey. This building was a former HPS Officer's Club
15 with no indication of radiological activity.

16 Site release criteria are based on either risk-based or dose-based release limits for radiation.
17 USEPA uses risk-based release limits, which are preliminary remediation goals (PRG) based on
18 a 1-in-a-million risk. The PRGs are posted on USEPA's website and are reported in picocuries
19 per gram of contamination or picocuries per liter of contamination. The Nuclear Regulatory
20 Commission uses a dose-based release limit of 25 millirem per year (mrem/year). This dose is
21 based on the residual radiological contamination left at a site after remediation is completed.

22 The Navy used the dose-based release criteria approach as requested by the California
23 Department of Health Services (DHS). Although the DHS does not provide a specific number,
24 the dose needs to be less than 15 mrem/year. The Final Status Survey determined the Class 1
25 area dose to be around 0.812 mrem/year. The Class 2 area, which is surrounded by concrete, had
26 a dose of 3.56 mrem/year at Building 322 after everything was removed, and this dose is
27 considered extremely low.

28 The Final Status Survey report was issued on 27 July 2004. Building and concrete pad survey
29 and disposal will be discussed in an addendum to the report. The regulatory agencies, including
30 the DHS, are currently reviewing the report. The Navy is waiting for a final clearance letter
31 from DHS. This clearance letter will be added as an addendum to the Parcel A FOST. Building
32 322 is the final of the five previously identified radiologically impacted sites at Parcel A. The
33 Navy received site clearance letters from the DHS for Buildings 816 and 821 previously.
34 Buildings 813 and 819 were reallocated to Parcel D. Upon receipt of the DHS clearance letter,
35 all radiological investigations at Parcel A will be complete.

36 The HRA identified radiologically impacted sites at HPS, and now the Navy is continuing
37 radiological investigations. Signs will be posted at sites with known contamination, and access to
38 buildings may be restricted. At Building 253, where contamination exists throughout the
39 building, the entrances will be secured and signs will be posted. At Building 366, artists are
40 currently remaining in the building. The concern in Building 366 is restricted to the floor drains
41 and the ventilation system. Although access is not restricted to this building, signs will be posted
42 regarding potential radioactive contamination in the flooring and ventilation. Signs will be
43 posted in 500 areas of the base containing known contamination, including the shoreline,
44 Building 364, and Building 211.

45 Dr. Sumchai asked for additional explanation regarding the artists in Building 366. Mr. Forman
46 responded that the data for Building 366 were released in October/November 2003. The Navy
47 explained that although the radiation levels in the building were extremely low, the remediation

1 actions would affect the integrity of the building and would require the artists to relocate. The
2 artists wanted to remain in the building as long as possible. Before any work begins on the
3 building, the Navy is required to find a suitable relocation building for the artists, which will
4 require a Finding of Suitability to Lease (FOSL). Dave Terzian, HPS Artist Buildings Manager,
5 has been working with the artists to find an acceptable building. The artists will likely remain in
6 Building 366 until a FOSL is approved. Dr. Sumchai inquired about the dose assessment for this
7 building. Ms. Lowman responded that the risk was extremely low and was based on
8 conservative factors, including a 50-year occupancy. Ms. Lowman stated that the contamination
9 is currently in place and is not moving; however, during the decontamination process, the piping,
10 drains, and sanitary lines will have to be removed, which requires the building to be unoccupied.

11 Ms. Oliva commented that approximately 8 months ago she had requested that the Navy consider
12 tenting Building 366 during remediation and was informed it would be too costly. Ms. Oliva
13 inquired if her proposal could be re-evaluated. Ms. Lowman responded that tenting was
14 unnecessary because all work will be performed inside the building. The sewer in front of the
15 building is not scheduled for remediation yet because it requires further investigation.

16 Ms. Lowman stated that efforts are being initiated to coordinate non-radiological site work with
17 work on the radiologically impacted sites. RASO will review all work plans prior to the start of
18 any work on an impacted site. This work could include polychlorinated biphenyl (PCB)
19 remediation work, installation of groundwater monitoring wells, or work on methane gas
20 extraction systems. RASO will ensure that proper controls are applied and that workers are
21 informed of any health and safety issues. Equipment used for non-radiological work will be
22 screened upon completion of the work to ensure that there is no residual contamination.

23 Ms. Lowman provided several examples of this coordination work. An aboveground sewer
24 bypass was in place at Building 819 because this building was no longer a pump station. Work
25 is being performed to use the existing belowground piping. RASO is supporting this project by
26 screening the piping and communicating with workers. A second project involves soil from well
27 borings from the installation of groundwater monitoring wells. RASO will perform a
28 radiological screening and sampling of the soil prior to its disposal. A third project involves the
29 storm drain adjacent to the Building 130 area. The drain has a catch basin for surface water,
30 which then runs down a 20-foot-long drain and empties into San Francisco Bay. This storm
31 drain line was discovered during excavation work. Sediment samples collected from the drain
32 line contained elevated cesium levels. Additional radiological studies are now being performed
33 at this site. Ms. Lowman noted that this storm drain line drains only the catch basin and is not
34 connected to the basewide storm drain system.

35 Ms. Lowman discussed completed work, including work at Buildings 322 and 819. The pump
36 station was removed from Building 819. The survey of the pump station found no
37 contamination. The Final Status Survey of Building 819 is pending.

38 Ms. Lowman then discussed an ongoing characterization project at Building 253 to determine the
39 type and extent of contamination within the building. The characterization requires the removal
40 of some areas of known contamination, including some equipment and flooring on the ground
41 floor. Any equipment remaining in the building, such as desks, chairs, and workbenches, will be
42 screened for contamination. The ventilation system will also be checked. Ms. Lowman
43 explained that Building 253 was likely the radium dial paint shop. Although no actual
44 documentation has been found, boxes of radium dials and gauges were found within the building.
45 As a result, some radium levels may be detected in the piping, which will be traced to the street.

46 Ms. Lowman discussed another ongoing project at the Metal Reef/Metal Slag in IR-02 at the
47 Parcel E shoreline. Characterization work is being performed to define the extent of the area.

1 The regulators approved the work plan, and work has started. Although this work is non-
2 radiological, some radioactive anomalies were found in the area. As a result, radiological
3 support is being provided, including sample screening and worker education.

4 Ms. Lowman discussed an ongoing project at IR-02 Northwest and Central, an area of known
5 radium dials and gauges. The work plan for this area is currently being revised after RASO
6 review. Mr. Tompkins inquired about a dispute regarding the cleanup of this area. Mr.
7 Tompkins stated that the Navy proposed remediation of the radiological contamination only,
8 whereas the state's position was to address both radiological and chemical contamination at the
9 same time. Ms. Lowman responded that the work plan has been revised. The project is a joint
10 venture between RASO and Southwest Division because RASO does not have jurisdiction over
11 Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
12 contaminants unless that waste is considered at mixed waste. Mr. Tompkins asked for
13 clarification regarding RASO's jurisdiction of soil contamination surrounding a radium dial. Ms.
14 Lowman responded that 1 foot of soil around a gauge is removed as a general measure to remove
15 residual contamination. If the soil contains other contaminants besides radiation, then it is mixed
16 waste and it falls under the radioactive waste program. Areas of chemical but not radiological
17 contamination fall under the CERCLA program. Ms. Lowman stated that this identification is a
18 very involved process.

19 Ms. Lowman explained that the work plan is very detailed for this investigation and for the PCB
20 Hot Spot soil excavation project. Both work plans are currently being revised.

21 Ms. Lowman discussed an upcoming project for Building 146 on Parcel B next to IR-07 and IR-
22 18. The work plan for this project is being revised for a characterization survey. A Class 3
23 MARSSIM survey that covered 20 percent of the building has been conducted. During the
24 HRA, it was discovered that the building was used as a turn-in point for the Navy's radium
25 removal program. This program, which began in the 1960s, replaced the radium dials or gauges
26 from ships. As a result of this information, the building survey will cover 100 percent of the
27 building, including the ventilation system and the piping.

28 Ms. Lowman discussed another pending project at IR-07 and IR-18. Various surveys have been
29 conducted at these fill areas. The work plan is being revised to cover 100 percent of the sites,
30 including the shoreline areas up to the dry docks.

31 Ms. Lowman discussed the pending Phase V reports. Field work was conducted from January
32 2002 through June 2003. The reports were written for different sites in Parcels B, C, and D. The
33 Parcel E report has not yet been generated, although the data are available. Work was stopped
34 on these reports because the team focused on the HRA. RASO is now planning to review the
35 Phase V reports. Once RASO approves the reports, they will be forwarded to the regulators.
36 RASO is hoping to complete these reports during the next 6 to 8 months.

37 Ms. Lowman presented the planned work for fiscal year (FY) 2005. This work includes the
38 preparation of the Phase V Parcel E reports and the remediation and Final Status Survey of
39 Building 366. The Building 366 work is contingent on finding a new building for the artists.
40 Additional remediation is planned for Building 364 as well as the Final Status Survey. Building
41 211 contains thorium contamination on the ground floor. This area will be remediated, and the
42 Final Status Survey will be conducted. Other work planned for FY 2005 includes the IR-02
43 Northwest and Central remediation, the PCB Hot Spots radiological support and remediation,
44 and the IR-04 Scrap Yard evaluation. Additional characterization of the site boundary is
45 required at IR-04.

46 Ms. Lowman presented the new scoping surveys planned for FY 2005 at previously unsurveyed
47 areas. Survey areas planned include the power plants at Buildings 203 and 521. These power

1 plants burned plutonium-contaminated fuel and have radium dials on the boilers inside the
2 building. Building 408 is a smelter in Parcel D. The building is full of firebrick, which contains
3 naturally occurring levels of radiation. In addition, metals placed in the smelter likely contained
4 radium dials and gauges. Building 813 contained a strontium-90 leak as well as warning signs
5 (in German) for radiation. Building 813 was reallocated from Parcel A to Parcel D. Dry Docks
6 5 and 7 are planned for new scoping surveys. Dry Dock 6 was previously investigated, but
7 because of some uncertainty regarding the location of the Operations Crossroad ships, all of the
8 dry docks will be surveyed, including the pumps and sediment at the bottom of the dry docks.
9 Building 114 in Parcel B is a former Naval Radiological Defense Laboratory (NRDL) building,
10 although its exact use is unknown. The building has been torn down. A scoping survey is
11 planned for Building 140 and the Discharge Tunnel, which is the Dry Dock 3 drain system in
12 Parcel C. Building 142 is another NRDL site planned for surveying in FY 2005.

13 Ms. Lowman asked for any questions. Ms. Oliva proposed that additional information obtained
14 from the scoping and characterization surveys be added as an addendum to the HRA instead of
15 as a separate report. Ms. Lowman responded that the documents for the individual sites would
16 be site-specific reports about each investigation. Ms. Lowman agreed that it was a good idea to
17 periodically update the HRA with results from specific parcels or areas.

18 Dr. Sumchai thanked Michael Work of USEPA for addressing some concerns. Dr. Sumchai
19 stated she had reviewed the gamma-spectroscopy survey results with Clifton Smith, C.J. Smith
20 and Associates. Dr. Sumchai questioned the use of Building 901 as a reference because of the
21 use of sandblast material as fill in the area, resulting in possible radiological contamination. In
22 addition, the presence of some man-made radionuclides, including europium 152 and 154, were
23 detected at Building 901. Ms. Lowman responded that the sandblast grit issue was planters
24 outside the building and the soil and planters outside have been removed from the site.
25 Reference area samples were collected from inside the building and from asphalt and concrete
26 outside of the building. Because the sandblast grit has been removed, it should not impact the
27 reference areas. Ms. Lowman discussed uncertainties associated with the presence of europium
28 152 and 154 in the gamma-spectroscopy reports. Ms. Lowman explained that the energy peaks
29 exhibited by a sample are compared against a library of information, and the uncertainty is the
30 percentage of accuracy of those peaks. Ms. Lowman stated that she examined the reports in
31 detail and found nothing to indicate the presence of radiation.

32 Mr. Tompkins noted the elevated rate of breast cancer in Bayview-Hunters Point and inquired if
33 air monitoring would be performed for the PCB Hot Spot area. Ms. Lowman responded that air
34 monitoring is always conducted for radiological work performed at a site. Mr. Forman stated
35 that this issue could not be fully addressed until the work plan and action memorandum for the
36 PCB Removal Action are sent out.

37 Mr. Tompkins stated that in earlier studies, scoping was not performed on the entire sewer
38 system. Based on the fact that these lines can back up and potentially impact households, Mr.
39 Tompkins requested the Navy to scope the entire sewage system. Ms. Lowman responded that
40 the HRA lists the entire system except in the upper part of Parcel A. The HRA includes the 707
41 triangle systems at the former location of the 500 buildings, the drain lines on Cochrane Street
42 between Buildings 364 and 365, Building 253, and Building 819. The HRA shows every outfall
43 and the storm and sewer drain lines for every parcel.

44 Mr. Campbell stated that although a number of records have been destroyed, it is known that
45 medical and radiological wastes subject to liquefaction were dumped at Hunters Point, probably
46 at Parcel E. Mr. Campbell stated that gases in the landfill could potentially ignite based on the
47 historical explosion in the San Francisco Marina District. Mr. Campbell asked if the radiological

1 aspects of the landfills were being adequately addressed given the high methane factors with
2 volatile organic compounds. Mr. Campbell suggested that landfill disposal records be examined.
3 Ms. Lowman responded that she has examined some of the disposal records. However, few
4 documents are available because NRDL seems to have destroyed all documents upon notification
5 of closure of NRDL. Ms. Lowman received five reports from one former employee who had
6 removed the reports from the trash bins. Based on these reports, waste was brought to NRDL
7 from many sources, packaged at the 707 triangle, and then disposed of at sea. Ms. Lowman does
8 not have records for the disposal of building debris. Ms. Lowman stated that in case of a fire,
9 she recommends radiological and air monitoring. Regarding waste liquefaction, she stated that
10 she would evaluate the situation when and if it arises.

11 Mr. Surber commented that only 10 minutes remained of the scheduled meeting and several
12 agenda items had not been covered. Mr. Tompkins made a motion to extend the meeting, and
13 Melita Rines, RAB member, suggested extending the meeting to 8:15 p.m. The motion to extend
14 the meeting was passed.

15 Ms. Oliva asked why surveys were not being conducted on the storm drains and sewers in Parcel
16 A. Ms. Lowman responded that the upland portion of the parcel has no radiological history.
17 Two areas of sandblast grit were removed, but these areas would not have impacted the storm
18 drains or sewer lines. Ms. Oliva stated that Building 101 is in Parcel A and is close to Dry Dock
19 4, which is impacted. Ms. Lowman stated that she did not find any radiological history for
20 Building 101. Ms. Oliva requested as an action item that the Navy survey the storm drains and
21 sewers in the vicinity of Building 101. Ms. Lowman agreed to the action item.

22 J.R. Manuel, RAB member, commented that most of the City of San Francisco is located on a
23 landfill that decomposes and creates methane gas. In addition, studies have shown that
24 aboveground power lines may result in higher incidence of cancer from electromagnetic fields.
25 Mr. Manuel asked if any information existed regarding above-average incidences of breast
26 cancer on the base. Ms. Lowman responded that a health study of workers at HPS has not been
27 conducted and that it is outside the charter of the HRA to perform a health study. Ms. Lowman
28 suggested that this concern be addressed with Southwest Division.

29 Mr. Surber thanked Ms. Lowman for her presentation.

30 Subcommittee Updates

31 Membership, Bylaws & Community Outreach Subcommittee (Melita Rines, Leader)

32 Ms. Rines opened the floor to vote on the Revised RAB Bylaws. Ms. Rines noted that the
33 proposed changes to the RAB bylaws alters the time period for member absences from the
34 calendar year to a 12-month period. RAB members will not be permitted to miss four meetings
35 in a 12-month period. In September 2004, these new bylaws will go into effect, and all RAB
36 members will have a clean attendance slate. Ms. Rines motioned for the RAB to pass the revised
37 bylaws. A hand vote was taken. Eight people voted to approve the bylaws, and four people
38 voted against the approval. The motion carried.

39 The next meeting of the Membership, Bylaws & Community Outreach Subcommittee will be at
40 6:30 p.m. on 15 September 2004, at the Anna Waden Branch Library.

41 Economic Development Subcommittee (Maurice Campbell, Leader)

42 Mr. Campbell stated that the subcommittee met on 10 August 2004, and that the meeting minutes
43 were transmitted by e-mail. Mr. Campbell stated that the economic numbers look better, but
44 because the meeting minutes are fairly complex, he would carry over discussion of the report
45 until the next meeting.

1 The next meeting of the Economic Development Subcommittee will be at 2:30 p.m., 7
2 September 2004, at the Anna Waden Branch Library.

3 Technical Review Subcommittee (Lea Loizos, Leader)

4 Ms. Loizos said the subcommittee met on 18 August 2004. The main topic of discussion was the
5 manganese issue, particularly in Parcel B. The Navy is preparing a technical memorandum in
6 support of a Record of Decision (ROD) amendment for Parcel B. Ms. Loizos stated that the
7 subcommittee developed a list of requests for the Navy and the BRAC Cleanup Team (BCT),
8 which she will forward to the Navy. These requests include a copy of the BCT's comments on
9 the 2002 construction summary report. Ms. Loizos asked the Navy to provide a current figure
10 that shows all sampling points, manganese concentrations, and sampling depths. Ms. Loizos also
11 requested that the Navy attend an upcoming Technical Review Subcommittee meeting to discuss
12 metals at HPS, particularly in Parcel B. The meeting minutes provide some of the specific
13 information requested from the Navy at that meeting. Ms. Loizos also asked for the complete
14 characterization data and remedial actions for Parcel B as well as the electronic database prior to
15 the release of the technical memorandum.

16 Ms. Loizos requested that interested members sign up for the ZVI field trip, including those only
17 able to attend a weekend trip.

18 The next meeting of the Technical Review Subcommittee will meet at 6:00 p.m. on 14 September
19 2004, at the Community Window on the Shipyard, 4634 Third Street.

20 Lowman Radiological Subcommittee of the HPS RAB (Ahimsa Sumchai, Leader)

21 Dr. Sumchai thanked the members for attending. Dr. Sumchai suggested that any outstanding
22 issues or questions from Ms. Lowman's presentation be addressed at the next subcommittee
23 meeting. Dr. Sumchai stated that the subcommittee meeting focused on the responses to
24 comments on the HRA. Dr. Sumchai stated that she would provide a condensed discussion by e-
25 mail.

26 Dr. Sumchai stated that in August 2002, the Redevelopment Agency responded to the civil grand
27 jury's 2001-2002 report on HPS. This report contains four findings and recommendations by the
28 civil grand jury. The third finding and recommendation concerns health hazards at HPS. The
29 civil grand jury states that there is no agreement between agencies regarding health hazards and
30 encourages direct communication among all governmental agencies. The finding and
31 recommendation also identifies the lack of complete data and documentation regarding the extent
32 of site characterization, which increases the level of community mistrust. The report
33 recommends that the city work with the Navy and the environmental regulators to review
34 available data in an effort to facilitate site characterization. The report recommends a clear
35 schedule be made available to the public. Dr. Sumchai stated that the Department of Public
36 Health has never responded to these findings. Dr. Sumchai motioned that the RAB support a
37 request to the Department of Public Health to formally respond to the findings and
38 recommendations of the civil grand jury report, specifically regarding the full site
39 characterization and health and safety issues. Mr. Tompkins seconded the motion, and the
40 motion carried.

41 Dr. Sumchai stated that one comment on the HRA identified areas with elevated levels of
42 radiation in the industrial landfill. The relationship between uncapped areas and hot spots in the
43 landfill is unclear. Dr. Sumchai stated that RASO's response to this concern mentioned that an
44 extensive characterization survey of the industrial landfill was conducted during the Phase V
45 investigation. Dr. Sumchai noted that the Navy has not yet reviewed the final survey reports.
46 Dr. Sumchai motioned that RASO prioritize the review of the Phase V investigation to make the

1 characterization of the landfill its top priority because this information should be available prior
2 to conveyance of property. Mr. Tompkins seconded the motion, and the motion carried.

3 Dr. Sumchai noted that a USEPA comment on the HRA identified an interview with William
4 Grab that indicated that some of the Operations Crossroads sandblast material went into the weir
5 at the end of the dry docks. The comment notes that all of the dry docks are at risk and that the
6 tunnels beneath Dry Dock 4 are full of sediment. Dr. Sumchai noted that Ms. Lowman identified
7 Dry Docks 6 and 7 for investigation. Dr. Sumchai stated that the investigation of all dry docks in
8 Parcel F would be discussed further at the next Radiological Subcommittee meeting.

9 The next meeting of the Lowman Radiological Subcommittee of the HPS RAB will be from 3:00
10 p.m. to 5:00 p.m. on 22 September 2004, at The Greenhouse, which is located at 4919 Third
11 Street at Palou.

12 Future Agenda Topics

13 Aside from the standard agenda topics and subcommittee updates, no additional agenda topics
14 were suggested.

15 There were no further announcements. The meeting adjourned at 8:10 p.m.

16 **Reminder: The next RAB meeting will be from 6:00 to 8:00 p.m. on Thursday evening, 23**
17 **September 2004, at Building 101 at HPS.**

**ATTACHMENT A
LIST OF ATTENDEES
RESTORATION ADVISORY BOARD MEETING
26 AUGUST 2004**

Name	Association
1. John Adams	SulTech
2. Patricia Brown	Shipyards artist
3. Phil Burke	Lennar
4. Barbara Bushnell	RAB member, ROSES, Silverview Terrace Homeowners Association
5. Maurice Campbell	RAB Community Co-chair , BDI, CFC, New California Media
6. Paul Carp	Nancy Pelosi District Office
7. George Cicotte	Air Force Institute for Operational Health
8. Charles L. Dacus, Sr.	RAB member, ROSES
9. Daryl DeLong	New World Technology
10. Stephen Dickson	Young Community Developers
11. Benjamin Feick	Waste Solutions Group
12. Keith Forman	Navy, RAB Co-chair
13. Marie J. Franklin	RAB member, Shoreview Environmental Justice
14. Barbara George	Women's Energy Matters
15. Jennifer Gibson	SulTech
16. Mitsuyo Hasegawa	RAB member, JRM & Associates
17. Chuck Holmon	Foster Wheeler
18. Carolyn Hunter	SulTech
19. Jackie Lane	US EPA Community Outreach
20. Tom Lanphar	California Department of Toxic Substances Control (DTSC)
21. Lisa Lulu	All Islanders Gather as One
22. Lea Loizos	RAB member, ARC Ecology
23. Laurie Lowman	Navy, Radiological Affairs Support Office (RASO)
24. Leslie Lundgren	SulTech
25. Kevyn Lutton	RAB member, resident
26. J.R. Manuel	RAB member, JRM Associates
27. Jesse Mason	RAB member, CFC
28. James Morrison	RAB member, Environmental Technology, ROSES
29. Sherlina Nageer	Literacy for Environmental Justice
30. Christine M. Niccoli	Niccoli Reporting, court reporter
31. Georgia Oliva	RAB member, Shipyards artist
32. Jeanette Osborne	Community member
33. Ralph Pearce	Navy, Remedial Project Manager
34. Karen Pierce	RAB member, BVHP Democratic Club, HEAP
35. Melita Rines	RAB member, India Basin Neighborhood Association
36. Sam Ripley	RAB member, Samoan American Media Services
37. Dennis Robinson	Shaw Environmental & Infrastructure, Inc
38. Lee Saunders	Navy, Public Affairs Office (PAO)
39. Matthew Slack	Navy, RASO
40. Clifton Smith	C.J. Smith & Associates, Eagle Environmental Construction
41. Peter Stroganoff	Navy, ROICC Office
42. Ahimsa Sumchai	RAB member, BVHP Health and Environmental Resource Center
43. Robert Surber	Pendergrass & Associates
44. Keith Tisdell	RAB member, resident
45. Raymond Tompkins	RAB member, BVHP Coalition on the Environment
46. Julia Vetromile	SulTech

47. Leilani Wright	RAB member, JRM Associates
48. Michael Work	RAB member, USEPA

**ATTACHMENT B
ACTION ITEMS
RESTORATION ADVISORY BOARD MEETING
26 AUGUST 2004**

Item No.	Action Item	Due Date	Person/Agency Committing to Action Item	Resolution Status
Carry-Over Items				
1.	Navy to notify David Terzian and Navy Caretaker Site Office prior to removal of AMC's cranes at Dry Dock 4	TBD	Navy/ Keith Forman	
2.	RAB members with information on potential storage bunkers to provide this information to the Navy; Navy will then set up a field trip to inspect areas identified by the RAB	TBD	RAB members	Maurice Campbell is looking for a second videotape and will then forward the information to the Navy. Jesse Mason will coordinate with Mr. Campbell on some additional information.
3.	Navy to arrange a field trip for RAB to view the zero-valent iron (ZVI) treatability study site	TBD	Navy/Keith Forman	This is scheduled for Tuesday, September 14, 2004 at 10:00 a.m.
4.	USEPA to provide information on measured levels of local background radiation	TBD	EPA/Michael Work	This report is to be provided next month. The delay is because the USEPA technical expert had been out of the office.
5.	Navy to provide Keith Tisdell with a copy of the Draft Final Parcel A	TBD	Navy/Keith	Copies were already provided to Ahimsa

Item No.	Action Item	Due Date	Person/Agency Committing to Action Item	Resolution Status
	FOST Revision 3		Forman	Sunchai, Maurice Campbell, and Lea Loizos.
New Items				
1.	Navy requested to provide a copy of the Building 322 survey report to Georgia Olivia	September RAB	Navy/Keith Forman	
2.	Navy to consider surveying all sewer lines in the vicinity of Building 101	TBD	Navy/Laurie Lowman	

**HUNTERS POINT SHIPYARD
RESTORATION ADVISORY BOARD (RAB) - MEETING AGENDA
THURSDAY, 26 AUGUST 2004**

Day/Date:
Thursday – 26 August 2004
Time:
6:00 p.m. to 8:00 p.m.

Location:
Building 101
Hunters Point Shipyard
San Francisco, CA 94124

Facilitator: Marsha Pendergrass

Time	Topic	Leader
6:00 p.m. – 6:05 p.m.	Welcome/Introductions/Agenda Review	Robert Surber (filling in for Marsha Pendergrass) <i>Facilitator</i>
6:05 p.m. – 6:15 p.m.	Approval of Meeting Minutes from 22 July 2004 RAB Meeting • Action Items	Robert Surber
6:15 p.m. – 6:25 p.m.	Navy Announcements	Keith Forman <i>Navy Co-chair</i>
	Community Co-chair Report/Other Announcements	Maurice Campbell <i>Community Co-chair</i>
6:25 p.m. – 6:55 p.m.	Update on the HPS Radiological Program	Laurie Lowman <i>Navy Radiological Affairs Service Office</i>
6:55 p.m. – 7:05 p.m.	BREAK	
7:30 p.m. – 7:50 p.m.	Subcommittee Reports	Subcommittee Leaders
7:50 p.m. – 8:00 p.m.	Community Comment Period	Robert Surber
8:00 p.m.	Adjournment	Robert Surber

HPS web site: <http://www.efds.w.navy.mil/Environmental/HuntersPoint.htm>

RAB Navy Contact: Mr. Keith Forman (619) 532-0913 or (415) 308-1458

HUNTERS POINT SHIPYARD
RESTORATION ADVISORY BOARD MEETING MINUTES
JULY 22, 2004

1
2
3
4 These minutes summarize discussions and presentations held during the Restoration Advisory
5 Board (RAB) meeting on Thursday July 22, 2004. The meeting was held from 6:00 p.m. to 7:50
6 p.m. at Dago Mary's Restaurant, which is Building 916 at Hunters Point Shipyard (HPS). A
7 verbatim transcript also was prepared for the meeting and is available in the Information Repository
8 for HPS and on the Internet (at www.efdsww.navfac.navy.mil/Environmental/HuntersPoint.htm). The
9 list of agenda topics is provided below. Attachment A provides a list of attendees. Attachment B
10 includes action items that were requested or committed to by RAB members during the meeting.
11 Attachment C includes all of the handouts from the RAB meeting on July 22, 2004.

12 **AGENDA TOPICS**

- 13 • Welcome, Introductions, and Agenda Review
14 • Approval of Meeting Minutes from RAB Meeting on June 24, 2004
15 • Navy Announcements
16 • Community Co-Chair Report and Other Announcements
17 • Subcommittee Reports
18 • Sequential Bioremediation at Remedial Unit C5 (Building 134)
19 • Rationale for Change of Parcel A Boundary and Status Update on Building 322
20 • Future Agenda Topics and Open Question and Answer Session
21 • Adjournment

22 **MEETING HANDOUTS**

- 23 • Agenda for RAB Meeting, July 22, 2004
24 • Meeting Minutes from RAB Meeting on June 24, 2004, including:
25 > Action Items from RAB Meeting on June 24, 2004
26 > Table 1, RAB Roll-Call Sheet
27 • Monthly Progress Report, June 2004
28 • PowerPoint™ Presentation, NAVFAC, Groundwater Cleanup using Bioremediation –
29 A Treatability Study, July 22, 2004
30 • PowerPoint™ Presentation, NAVFAC, Parcel A FOST, July 22, 2004
31 • Meeting Minutes, HPS RAB, Membership/Bylaws and Community Outreach
32 Subcommittee, July 14, 2004

- 1 • Meeting Minutes, HPS RAB, Lowman Radiological Subcommittee, June 23, 2004
- 2 • Handout, Pro Se Services, Bouchard Industrial Metals, Notification: Proposed Ship
- 3 Dismantling Facility, HPS, Dry Dock 4
- 4 • Handout, Community Window on the HPS Cleanup, Superfund Sites, and the Law: From
- 5 Discovery to Redevelopment
- 6 • Handout, Map of Former Locations of Buildings D-19 through D-23

7 **Welcome, Introductions, and Review of Agenda and Meeting Minutes**

8 Marsha Pendergrass, facilitator, called the meeting to order at 6:00 p.m. All participants in
9 attendance introduced themselves. Ms. Pendergrass began the meeting and asked if there were
10 any changes to the minutes for the meeting on June 24, 2004. Clifton Smith, meeting attendee,
11 commented that two questions posed by him during the zero-valent iron (ZVI) presentation at the
12 RAB meeting on June 24, 2004, were not included in the minutes. Ms. Pendergrass stated that
13 the meeting minutes contain condensed information and reminded everyone that a verbatim
14 transcript is also posted on the Navy's website. Ms. Pendergrass called for a motion to approve
15 the June 2004 meeting minutes, and the minutes were approved.

16 Ms. Pendergrass reviewed the action items contained in the June 2004 meeting minutes and
17 asked for a status of each item. Two items (Astoria Metals Company cranes at Dry Dock 4 and
18 the field trip to the ZVI site) were carried over to the action items for the July 2004 meeting.
19 The action item for the report to the Radiological and Health Risk Subcommittee on the
20 establishment of preliminary remediation goals (PRG) for manganese was completed to the
21 satisfaction of the RAB.

22 The action item on the field trip to the former ammunition bunker was not resolved to the
23 satisfaction of the RAB members. Lani Asher, RAB member, stated during the June 2004
24 meeting that she was not satisfied with the field trip to the concrete retaining wall and requested
25 a follow up field trip be conducted. Pat Brooks, Navy Lead Remedial Project Manager (RPM),
26 said he was not aware of any additional bunkers. Maurice Campbell, RAB Community
27 Co-Chair, stated that he had viewed videotape from a former shipyard worker about bunkers at
28 HPS and a newspaper article about children playing in the bunkers. Georgia Oliva, RAB
29 member, suggested that Mr. Campbell provide Mr. Brooks with the bunker information and then
30 a field trip to the bunkers could be arranged. Barbara Bushnell, RAB member, requested anyone
31 with information on bunkers in Parcel A to provide this information to the Navy. The action
32 item was amended, and the information will be reviewed during the August 2004 meeting.

33 **Navy and Community Co-Chair Reports/Other Announcements**

34 Mr. Brooks stated that he would be filling in for Keith Forman (Navy RAB Co-Chair) while he is
35 on training duty. Mr. Brooks noted that a revised agenda had been sent to the RAB members
36 that reflected changes in the format of the meetings. Mr. Brooks noted that a discussion occurred
37 with Ms. Pendergrass and Mr. Campbell to change the format of the RAB meetings to allow for
38 a more equitable time distribution between the Navy and the subcommittee reports. Ms.
39 Pendergrass noted that the minutes from the subcommittee meetings will be added to the final
40 meeting minutes on the Navy's website, in the Administrative Record, and in the Information
41 Repository.

1 Mr. Campbell added that only one question per RAB member will be permitted during Navy
2 presentations to allow additional time for community input during RAB meetings. Mr. Campbell
3 noted that further discussions can take place in the subcommittee meetings. Mr. Campbell then
4 requested the return of a map index showing the layout of HPS. A Navy subcontractor (Tetra
5 Tech FW, Inc.) had removed the map from Building 101 to photocopy it. Mr. Campbell also
6 noted an information handout from Pro Se Services, Bouchard Industrial Metals, on a proposed
7 ship-breaking operation on Parcel 4. This proposal has not yet been reviewed by the Navy.

8 Karen Pierce, RAB member, asked that the policy regarding one question per RAB member be
9 reconsidered because follow-up questions may be necessary due to various levels of expertise
10 among the RAB members. Ms. Pierce stated that follow-up questions would help all RAB
11 members to better understand the information being presented and to become better informed
12 about issues at HPS.

13 **Reminder: The next RAB meeting will be held August 26, 2004, from 6:00 to 8:00 p.m., at**
14 **Dago Mary's Restaurant, Building 916 at HPS.**

15 **Subcommittee Updates**

16 **Membership, Bylaws, and Community Outreach Subcommittee (MBCO) (Melita Rines, Leader)**

17 Ms. Rines noted that the San Francisco Police Department (SFPD) attended the MBCO meeting
18 but did not make available for RAB review the terms of their lease for Building 606 at HPS. The
19 lease is in the process of being renegotiated between the City and County of San Francisco (City)
20 and the Navy. Currently the Navy is examining the market value of property before finalizing
21 the renegotiation of the City's lease of Building 606. Ms. Rines stated that a vote on the bylaws
22 will take place at the RAB meeting in August 2004. The proposed bylaws change the time
23 period for absences from the calendar year to a 12-month period. As a result, RAB members
24 will not be permitted to miss more than four meetings in 12 months. Once passed by the RAB in
25 September 2004, the revised bylaws will go into effect. Barbara Bushnell, RAB member,
26 recommended keeping the absence rules in bylaws per calendar year to make it easier to track.
27 Ms. Pendergrass requested that the proposed changes be sent to the RAB members for review
28 before the vote next month. Carolyn Hunter, SulTech, agreed to mail them.

29 The next meeting of the Membership, Bylaws, and Community Outreach Subcommittee will be
30 at 6:30 p.m. on August 11, 2004, at the Anna E. Waden Branch Library, located at 5075 Third
31 Street. **Follow Up: The next MBCO subcommittee meeting will be moved due to the*
32 *unavailability of the Anna Waden Library Community Room. The next MBCO subcommittee*
33 *meeting will take place on August 11, 2004 at the Window on the Shipyard Office at 4634 Third*
34 *Street.*

35 **Technical Review Subcommittee (Lea Loizos, Leader)**

36 Lea Loizos, RAB member, said the subcommittee had not met in June 2004. Ms. Loizos was
37 considering having the Navy give a technical presentation during future meetings of the
38 Technical Review Subcommittee.

39 The next meeting of the Technical Review Subcommittee will be at 6:00 p.m. on August 18,
40 2004, at the Community Window on HPS, located at 4634 Third Street.

41 **Lowman Radiological Subcommittee of the HPS RAB (Ahimsa Sumchai, Leader)**

1 Dr. Ahimsa Sumchai, RAB member, thanked the members for attending the subcommittee
2 meeting. Dr. Sumchai stated that Dr. Dan Stralka from the U.S. Environmental Protection
3 Agency's (EPA) Superfund division gave a presentation on manganese, which included a
4 discussion on sources, background information, and the establishment of PRGs for manganese.
5 Dr. Sumchai said that manganese has been detected at elevated concentrations at HPS, although
6 it is unknown if these concentrations are naturally occurring. Dr. Sumchai continued that
7 manganese is a natural component in the geology of HPS and is a product of the combustion of
8 fossil fuels. Dr. Stralka discussed the establishment of the PRGs to protect human health,
9 including the most sensitive populations. Previous studies evaluated in the establishment of the
10 PRGs looked at manganese in drinking water and at the effect on human health from inhalation
11 by mine workers, including neurological disorders. Dr. Sumchai stated that the subcommittee
12 would also address the reuse plans and would table the discussion for a full RAB presentation.

13 Dr. Sumchai stated that the RAB should revisit the concern that a Naval Radiological Defense
14 Laboratory (NRDL) laboratory was located in the D-series buildings. Dr. Sumchai expressed
15 concerns about Building 103, which was identified in the Historical Radiological Assessment
16 (HRA) as a personnel decontamination center during World War II and is currently leased to
17 local artists. She recommended that this building should be retained for further evaluation based
18 on the final Environmental Impact Report for Phase I development at Parcels A and B. Laurie
19 Lowman, Naval Sea Systems Command, Radiological Affairs Support Office (RASO), will
20 address some of these issues at her presentation during the August 2004 meeting.

21 Dr. Sumchai recommended that Dr. Stralka give a presentation on manganese to the full RAB, if
22 the group is interested.

23 The next meeting of the Lowman Radiological Subcommittee of the HPS RAB will be from 3 to
24 5:00 p.m. on August 25, 2004, at The Greenhouse, located at 4919 Third Street.

25 Economic Development Subcommittee (Maurice Campbell, Leader)

26 Mr. Campbell did not have an Economic Development Subcommittee report for June 2004. The
27 year-to-date and quarter-to-date financial information, as well as the community's portion of the
28 cleanup of HPS, will be discussed during the next meeting.

29 The next meeting of the Economic Development Subcommittee will be at 2:30 p.m. on August
30 10, 2004, at the Young Community Developers, located at 1715 Yosemite Avenue.

31 Results of a Study on Groundwater Cleanup using Bioremediation

32 Glenn Christensen, Navy RPM, said this presentation would provide the results of a treatability
33 study on groundwater cleanup using bioremediation. Mr. Christensen began by giving the
34 background of Building 134. This building was a former machine shop on Parcel C. Building
35 134 contained an oil/water separator (OWS) and a solvent degreaser pit that were removed. Soil
36 and groundwater at Building 134 are contaminated with solvents. The degreaser pit has been
37 over-excavated to install a large-diameter well. All contaminated soil above the water table was
38 removed. The purpose of this study is to evaluate the potential of enhanced bioremediation to
39 treat contaminated water at this building and also other areas of HPS.

40 Mr. Christensen described the process of in situ bioremediation, which destroys contaminants in-
41 place with naturally occurring bacteria in the aquifer. After the bacteria are provided a food

1 source, they eat the contaminants, breaking them down into nontoxic chemicals. This process is
2 similar to other biological processes, such as making wine or beer.

3 Mr. Christensen showed a map of the plume within Building 134. The source of the
4 contamination is the former degreaser pit, which has been excavated and backfilled. An
5 extraction well was installed in the former OWS excavation area to control groundwater
6 movement. Mr. Christensen showed pictures displaying the installation of the well vaults. The
7 monitoring wells are 4-inch flush-mounted wells located outside the building.

8 Mr. Christensen stated that the bioremediation study at Building 134 includes the following two
9 steps: (1) bioremediation without oxygen (anaerobic) followed by (2) bioremediation in the
10 presence of oxygen (aerobic). Some contaminants, such as tetrachloroethene (PCE) and
11 trichloroethene (TCE), degrade without oxygen or under anaerobic conditions. Other
12 contaminants, such as benzene, petroleum hydrocarbons, and semivolatile organic compounds,
13 degrade with oxygen or aerobic conditions. Still other contaminants, such as vinyl chloride and
14 chlorobenze, can degrade under aerobic or anaerobic conditions.

15 Bioremediation creates favorable conditions for the breakdown of contaminants
16 (biodegradation). Stage 1, anaerobic bioremediation, began on April 14, 2004, at Building 134,
17 and it is expected to continue through November 2004. The second stage, aerobic degradation, is
18 scheduled to begin in December 2004 and to continue through April 2005. The first stage,
19 anaerobic breakdown of contaminants, is already occurring. PCE and TCE are degrading into
20 vinyl chloride and ethene. Ethene is nontoxic, and detected concentrations are far below the
21 lower explosive limit (LEL). The LEL for ethene is approximately 30,000 parts per million
22 (ppm). The highest concentration of ethene detected is 7 ppm.

23 Ms. Pierce asked for a further explanation on anaerobic bioremediation. Mr. Christensen
24 explained that the environment is currently anaerobic. Groundwater is pumped out of the
25 aquifer, and sodium lactate is added to the water and then reinjected into the aquifer. Mr. Brooks
26 added that petroleum hydrocarbons from an adjacent site have degraded in the aquifer and used
27 up the oxygen in the groundwater, thereby creating favorable anaerobic conditions.

28 Mr. Christensen explained the aerobic biodegradation process. During this process, oxygen is
29 added to the aquifer. A different type of bacteria uses oxygen for respiration, and these bacteria
30 complete the destruction of the remaining contaminants. The byproducts of this process are
31 carbon dioxide, water, and chloride ions.

32 Mr. Christensen showed a picture of the equipment inside of Building 134, as well as the
33 excavation and treatment zone. The depth to groundwater is about 8 feet below ground surface.
34 The walls of the building act as a containment cell. The soils are made of silty sands and silty
35 clay. Several monitoring wells were installed outside the building. This study is treating the
36 upper aquifer, known as the A1 Zone, but testing is also being performed on the lower aquifer to
37 ensure that no vertical migration of contaminants is occurring.

38 Mr. Christensen showed three graphs of analytical results for groundwater samples from each
39 well. Six samples have been collected to date. The trends in these three wells indicate that
40 breakdown of PCE and TCE is already occurring, with an increase in vinyl chloride
41 concentrations. The process is also pulling contaminants from the soil. Mr. Christensen then
42 asked for questions.

1 Dr. Sumchai expressed concerns regarding the volatilization of byproducts, particularly at the
2 groundwater outfall into the Bay. She stated that carbon dioxide is a global warming gas and
3 therefore this is a concern for a community with respiratory problems. Another concern is the
4 formation of ethene and chloride. Dr. Sumchai also asked if air monitoring data were being
5 collected. Mr. Christensen responded that air monitoring was conducted at all times for the
6 health and safety of workers.

7 Ms. Rines asked if the bacteria used in the aerobic biodegradation process are also naturally
8 occurring and if so, then why doesn't the process occur naturally. Mr. Christensen responded
9 that while it does occur naturally, this process speeds it up.

10 Mr. Campbell inquired about the effect of methane and ethane for global warming. Mr. Brooks
11 responded that activities conducted during the treatability study or methane released from Parcel
12 E would have less than a negligible effect on the global warming.

13 Raymond Tompkins, RAB member, inquired about the effects of sodium lactate on the bacteria.
14 Mr. Brooks responded that the bacteria reproduce, grow, and eat the contamination as a food
15 source.

16 Ms. Asher asked if this process had been used at other bases. Mr. Christensen responded that the
17 Navy's contractor, Shaw Environmental & Infrastructure, Inc., had successfully used it at Point
18 Mugu and Treasure Island. Ms. Asher then asked if there were other contaminants in the aquifer
19 that were not being eaten by the bacteria. Mr. Christensen responded that this study was looking
20 at the contaminants with the highest concentrations, notably PCE and TCE, although other
21 contaminants are degraded aerobically and anaerobically. He stated that the work plans for this
22 study have been submitted to and reviewed by both the RAB and the BCT.

23 Frank Niccoli, meeting attendee, stated that an increase in anaerobic biodegradation created a
24 decrease in aerobic biodegradation in the aquifer. He asked if oxygen was injected into the wells
25 for the aerobic biodegradation process, and Mr. Christensen responded that it was.

26 Clifton Smith, meeting attendee, inquired into the baseline conditions used for this study. Mr.
27 Christensen responded that groundwater samples were collected previously from monitoring
28 wells. Therefore, the Navy already had knowledge of PCE and TCE contamination at HPS. The
29 Navy tested the groundwater samples to ensure a sufficient colony of the bacteria existed in the
30 area. The Navy also measured groundwater parameters, including dissolved oxygen and
31 temperature. Mr. Smith inquired if this study was based on published research, and Mr.
32 Christensen responded that it was, including contractor knowledge of the process and previous
33 data collected at HPS.

34 Ms. Loizos asked why it was necessary to circulate the groundwater. Mr. Christensen responded
35 that this process ensured that sodium lactate was distributed evenly in the well. The circulation
36 is turned off when sodium lactate is detected in the extraction well.

37 Ms. Oliva inquired into byproducts of the biodegradation process and expressed concerns about
38 the explosive properties of ethene. Mr. Christensen stated that the maximum concentration that
39 ethene will reach is 7 ppm, which is well below the LEL.

40 Chris Hanif, RAB member, reminded the Navy to explain terms and acronyms used in the
41 presentations. Dr. Sumchai stated that a list of acronyms was provided during past RAB
42 meetings and suggested this would be helpful for the RAB members.

1 **Status of Parcel A FOST**

2 Mr. Brooks stated that before he addressed the Parcel A FOST and Building 322, he wanted to
3 discuss the boundary changes of Parcel A. Mr. Brooks stated that the Navy's main objective is
4 to clean up the parcels and transfer them to the City for productive reuse. Mr. Brooks stated that
5 the boundary of Parcel A has been redrawn to exclude Buildings 813 and 819. Building 813 was
6 an NRDL building that is a potential source of strontium from a leak in test equipment. Building
7 819 was a sewage pump station that could have received radioactive waste from sewer lines.
8 The draft final HRA identified these buildings as impacted, so they were removed from Parcel A
9 to allow for its transfer to the City.

10 Mr. Brooks began his discussion of Building 322 by showing a picture of the building, which has
11 since been demolished. The Navy is currently working with EPA and the California Department
12 of Health Services (DHS) to release the building so Parcel A can be transferred. Building 322 is
13 a former guard shack that was previously used by NRDL as a storage area for instruments. It
14 was formerly located on Parcel D and subsequently moved to Parcel A. The Navy conducted a
15 radiation survey of the entire building. Based on the survey results, the Navy's Radiological
16 Affairs Service Office (RASO) granted approval to demolish the building and it was sent to a
17 landfill. A radiation survey was then conducted on the remaining concrete slab. No
18 contamination was found, and the slab was subsequently broken up, and disposed of as
19 construction debris.

20 On June 30, 2004, EPA conducted an independent radiological survey on the footprint of the
21 building. This survey found no radiation at the site at concentrations above background. EPA
22 used two instruments for the evaluation: a gamma scintillation probe and an Exploranium
23 GR130 Mini Spectrometer. A nearby grassy area was also evaluated as a baseline. The EPA
24 inspection concluded that no radiological contamination is affecting the environment at HPS due
25 to activities previously conducted at Building 322 and that further radiological investigation of
26 the site is not warranted. EPA concluded that the site of former Building 322 is eligible to be
27 released for unrestricted reuse.

28 Mr. Brooks stated that the Navy's next step would be to compile the survey report and submit the
29 report to the DHS following a review by RASO. The Navy will prepare the Draft Final Finding
30 of Suitability to Transfer (FOST), Revision 3, which will include the letters of free release for the
31 site. The Draft Final FOST, Revision 3, will have a 30-day comment period.

32 Ms. Oliva asked which instruments were used to evaluate the building materials. Mr. Brooks
33 replied that the same instruments and analysis were conducted on all materials of the building.
34 Ms. Oliva also asked when the report would be finished. Mr. Brooks responded that he expected
35 it to be completed the following Tuesday, and that he would provide copies of the report to any
36 interested RAB member.

37 Ms. Pierce stated that there are two sites for former Building 322 and she wanted to ensure that
38 the original site was adequately addressed in Parcel D. Mr. Brooks stated that in the draft final
39 HRA, the site of Building 322 on Parcel D is known as the "former site of Building 322" and a
40 survey is recommended for that site.

41 Dr. Sumchai asked why the building had been demolished. Mr. Brooks responded that the
42 building needed to be demolished in order to survey the concrete slab and soil underneath the
43 building. Dr. Sumchai then inquired into the size of Parcel A and asked about the background

1 levels of radiation used. Mr. Brooks responded that background levels were measured at a
2 nearby grassy area. Dr. Sumchai stated that 20,000 counts per minute appeared to be a high
3 number. She inquired if any gamma rays had been detected at the site. Mr. Brooks stated that he
4 would need to review the report.

5 Mr. Campbell stated that he would like more information on the background level of radiation at
6 HPS. Mr. Brooks stated that background levels vary across HPS, but a range could probably be
7 provided. Michael Work, EPA, will check if background levels are available for the San
8 Francisco area from EPA.

9 **Future Agenda Topics**

10 Aside from the standard agenda topics and subcommittee updates, no additional agenda topics
11 were suggested.

12 **Other Discussions and Topics**

13 The items below also were discussed at the July 2004 meeting. A verbatim account of these
14 discussions is included in the Information Repository for HPS and may be found on the Internet
15 at www.efds.w.navy.mil/Environmental/HuntersPoint.htm

- 16 • Mr. Hanif stated that a training program for hazardous waste by Young Community
17 Developers will take place beginning on September 1, 2004. At the completion of this
18 training, Mr. Hanif will provide an informational presentation on the terminology of
19 hazardous training programs at an upcoming meeting, which will be open to RAB
20 members. Mr. Hanif will provide the dates for the training orientation and information to
21 the RAB.
- 22 • Dr. Sumchai stated that an invitation had been extended to Gerald Vincent from the U.S.
23 Army Corps of Engineers to give a presentation on formerly used defense sites. Dr.
24 Sumchai will provide additional information on this schedule because Mr. Vincent is not
25 available for the August meeting.
- 26 • Don Capobres from the San Francisco Redevelopment Agency (SFRA) stated that
27 August 13, 2004, will be his last day with the agency. Mr. Capobres will coordinate with
28 Mr. Campbell to introduce the SFRA's replacement to the RAB. He thanked the RAB
29 members for their involvement the past few years.
- 30 • Dr. Sumchai stated that the Anna E. Waden Branch Library is an important resource to
31 the community, and requested that it be stocked with the same documents as the main
32 library. Mr. Brooks replied that the Anna E. Waden Branch Library does not have
33 enough space available to fit all the Navy documents. Mr. Smith suggested the Navy put
34 the administrative records on compact disc and then provide these to the library. The
35 library has computers available where the documents could be viewed. Mr. Brooks
36 agreed to look into providing compact discs of Navy documents for the Anna Waden
37 Library.
- 38 • Mr. Campbell stated that future RAB meetings will focus on the subcommittees and their
39 recommendations, and reminded everyone to participate in these meetings.

40 There were no further announcements. The meeting was adjourned at 7:50 p.m.

1 **Reminder: The next RAB meeting will be held from 6:00 to 8:00 P.M., Thursday evening,**
2 **on August 26, 2004 at Dago Mary's Restaurant, Building 916 at HPS.**

**ATTACHMENT A
JULY 22, 2004 - RAB MEETING
LIST OF ATTENDEES**

Name	Association
1. John Adams	SulTech
2. Lani Asher	RAB member, CBE, CFC
3. Pat Brooks	Navy, Lead Remedial Project Manager
4. Amy Brownell	RAB member, SF Dept of Public Health
5. Barbara Bushnell	ROSES, Silverview Terrace Homeowners Association
6. Maurice Campbell	RAB Community Co-chair, CFC, New California Media
7. Don Capobres	San Francisco Redevelopment Agency
8. Shirley Cherry	SulTech
9. Glenn Christensen	Navy, Remedial Project Manager
10. Tommie Jean Damrel	SulTech
11. Steve Dixon	Young Community Developers
12. Jennifer Gibson	SulTech
13. Chris Hanif	RAB member, Young Community Developers
14. Carolyn Hunter	SulTech
15. Jackie Lane	EPA, Community Involvement
16. Tom Lanphar	RAB member, California Department of Toxic Substances Control
17. Lea Loizos	RAB member, ARC Ecology
18. James Morrison	RAB member, Environmental Technology, ROSES
19. Christine M. Niccoli	Niccoli Reporting, court reporter
20. Frank Niccoli	Niccoli Reporting
21. Georgia Oliva	RAB member, CBE, CCA member
22. Ralph Pearce	Navy, Remedial Project Manager
23. Marsha Pendergrass	Pendergrass & Associates
24. Karen Pierce	RAB member, BVHP Democratic Club, HEAP
25. Jim Ponton	RAB member, Regional Water Quality Control Board
26. Melita Rines	RAB member, India Basin Neighborhood Association
27. Dennis Robinson	Shaw Environmental & Infrastructure, Inc
28. Robert Server	Pendergrass & Associates
29. Clifton Smith	C.J. Smith & Associates, Eagle Environmental Construction
30. Peter Stroganoff	Navy, ROICC Office
31. Ahimsa Sumchai	RAB member, BVHP Health and Environmental Resource Center
32. Keith Tisdell	RAB member, resident
33. Raymond Tompkins	RAB member, BVHP Coalition on the Environment
34. Julia Vetromile	SulTech
35. Michael Work	RAB member, US EPA
36. Leilani Wright	RAB member, JRM Associates

**ATTACHMENT B
JULY 22, 2004 - RAB MEETING
ACTION ITEMS**

Item No.	Action Item	Due Date	Person/Agency Committing to Action Item	Resolution Status
Carry-Over Items				
1.	Navy to notify David Terzian and Navy Caretaker Site Office prior to removal of Astoria Metals Company's cranes at Dry Dock 4	To be determined	Navy/ Keith Forman	
2.	[Amended from June Action Item] RAB members with information on potential storage bunkers to provide this information to the Navy. The Navy will then set up a field trip to look at those areas identified by the RAB.	August RAB	RAB members	
3.	Navy to arrange a field trip for RAB to view the site where zero-valent iron will be used.	To be determined	Navy/Pat Brooks	Field work will begin mid-August; because it may begin before the next RAB meeting, the Navy will invite the RAB and the BCT via e-mail instead of setting a date at the August RAB meeting
New Items				
1.	EPA to provide information on measured levels of local background radiation	To be determined	EPA/Michael Work	
2.	Navy to check on the return of the map index to Building 101	To be determined	Navy/Pat Brooks	Navy will return map when finished with evaluation
3.	SulTech to mail copies of proposed membership bylaws to RAB members	August RAB	SulTech/Carolyn Hunter	This action item has been completed
4.	Navy to provide interested RAB members with a copy of the Draft Final FOST, Revision 3	To be determined	Navy/Pat Brooks	Copies provided to Ahimsa Sumchai, Maurice Campbell, and Lea Loizos
5.	Navy to assess the feasibility of providing Anna E. Waden Branch Library with HPS documents on compact disc	To be determined	Navy/Pat Brooks	Navy will include some CD versions of older

Item No.	Action Item	Due Date	Person/Agency Committing to Action Item	Resolution Status
				reports as well as maintaining hard copies for current work



Hunters Point Shipyard HRA Update 26 August 2004

Laurie Lowman
Director, Program Support and LLRW
NAVSEADET RASO



HPS HRA

- Responses to comments on Draft Final HRA distributed 27 July 2004
 - EPA
 - DTSC
 - CRWQCB
 - City of San Francisco Department of Public Health
 - Army Corps of Engineers
 - ARC Ecology
 - Dr. Deborah Santana
 - RAB Members:
 - Lynne Brown, Maurice Campbell, Dr. Sumchai



HPS HRA (Cont.)

- **Modifications to document:**
 - All responses incorporated into HRA
 - Included reassessment of Section 8
 - Added Building 322 in Parcel A as an impacted site
 - Added USGS Aerial Photographs
 - Added building use comparison that included information from the HPS map found in Building 101
 - Added Sediment as a Potential Contamination and Potential Migration Pathway categories

10/15/2004

HPS

3



HPS HRA (Cont.)

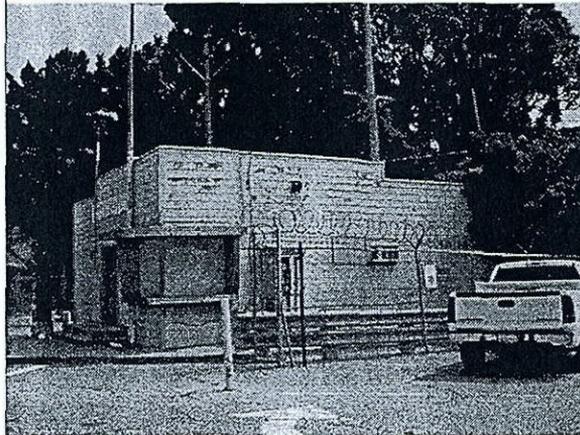
- **3 additional interviewees identified**
 - Contact attempts unsuccessful
- **HRA Team performed final document review**
- **Final HRA sent for print production**
- **Final HRA publication date 31 August 2004**

10/15/2004

HPS

4

BUILDING 322



10/15/2004

HPS

5

Building 322 (Cont.)

- **Building was surveyed and removed**
 - No contamination was found
 - Debris was surveyed, released and disposed off-site
- **Concrete pad was surveyed and removed**
 - No contamination was found
 - Debris was surveyed, released and disposed off-site
- **Final Status Survey (FSS)**
 - Performed on building footprint and immediate surrounding area

10/15/2004

HPS

6

Building 322 Site



10/15/2004

18 3:19 PM

Building 322 (Cont.)

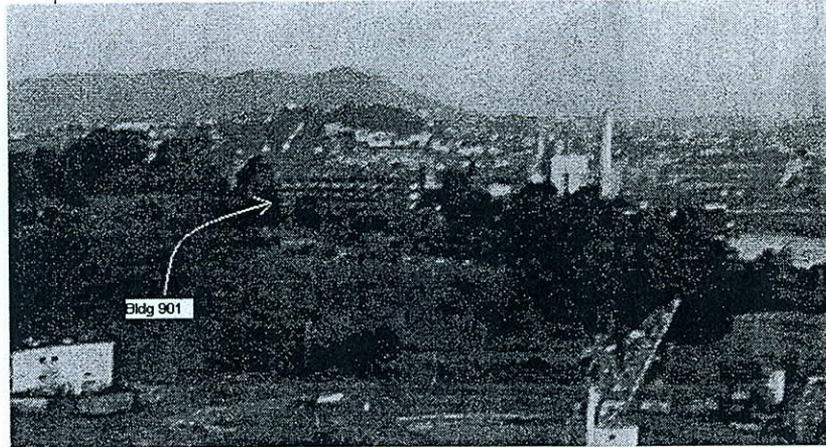
- **Reference (Background) Area**
 - Similar in age, construction and environment with no history of radiological use
 - Comparison readings taken with the same instrumentation used for the FSS
 - Comparison samples taken
 - Readings and sample results should be consistent with readings from other reference areas
- **Building 901 used as reference area for Building 322 FSS**
 - Former HPS Officers' Club

10/15/2004

HPS

8

Building 901



10/15/2004

HPS

9

Building 322 (Cont.)

- **Site Release Criteria**
- **EPA**
 - Risk based release limit
 - $10E-6$ (1×10^{-6} or 1 in a million)
 - Preliminary Remediation Goals (PRGs)
- **Nuclear Regulatory Commission (NRC)**
 - Dose based release limit
 - 25 mrem/year

10/15/2004

HPS

10



Building 322 (Cont.)

- **California Department of Health Services (DHS)**
 - Dose based release limit
 - No specific number from DHS
 - Less than 15 mrem/year
 - Require a dose assessment of site
- **FSS Dose Assessment**
 - Class 1 Area - 0.812 mrem/year
 - Class 2 Area - 3.56 mrem/year

10/15/2004

HPS

11



Building 322 (Cont.)

- **Final Status Survey Report was issued 27 July 2004**
 - Report of building and concrete pad release surveys and disposal to be added as addendum
- **Currently under regulatory review**
- **Navy awaiting final site clearance letter from DHS**
 - Will be addendum to Parcel A FOST
- **This is the final radiological issue in Parcel A**

10/15/2004

HPS

12



Current HPS Radiological Sites

- Sites of known contamination must be identified to meet state and federal regulations
- Signs will be posted
- Access to areas with known contamination will be controlled
 - Entire site controls
 - Specific area controls

10/15/2004

HPS

13



Coordinated Site Work

- New efforts being initiated to coordinate non-radiological work on radiologically impacted sites
- RASO will review work plans prior to start of work
 - Controls will be applied if necessary
- Workers will be briefed
- Equipment will be screened at completion of work

10/15/2004

HPS

14



Coordinated Site Work (Cont.)

- **Building 819 Sewer Bypass**
 - Ongoing at this time
- **Soil from well borings near the landfill**
 - Removed when groundwater monitoring wells were installed around landfill
 - Being held for radiological screening

10/15/2004

HPS

15



Coordinated Site Work (Cont.)

- **Storm Drain adjacent to Building 130**
 - Storm drain line discovered during excavation
 - Preliminary results indicate elevated Cs-137 levels
 - Additional radiological studies pending

10/15/2004

HPS

16

Completed Work

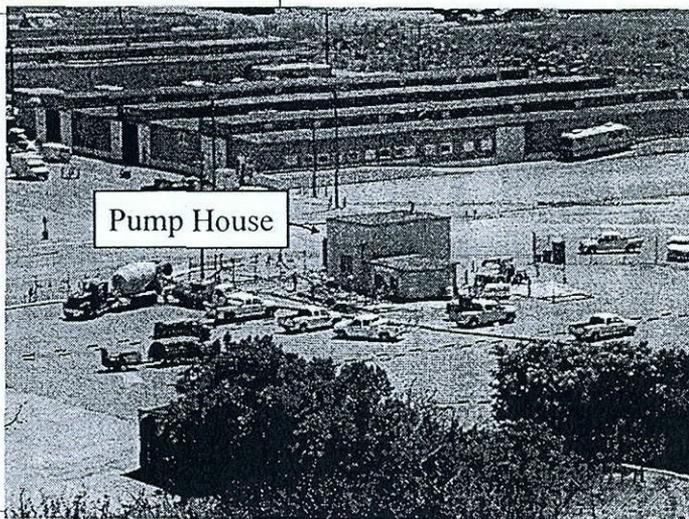
- Building 322 site
- Building 819 Dismantling, Removal and Packaging
 - Removal of pump system complete
 - Preliminary reports indicate no contamination was identified
 - Final Status Survey pending

10/15/2004

HPS

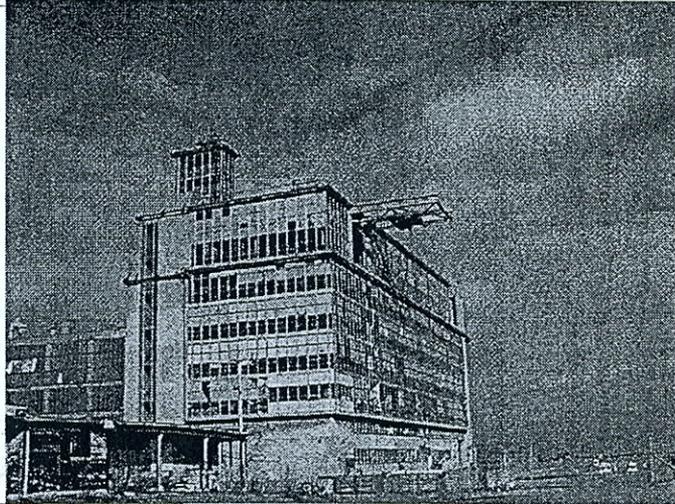
17

Building 819 (Pump House)



10/15/2004

Ongoing Projects Building 253



10/15/2004

Ongoing Projects

- **Building 253 Characterization**
 - Define the extent of contamination
 - Involves removal of some known contamination to allow characterization to be completed
 - Remaining equipment in building will be screened
 - Piping will be traced to the street

10/15/2004

HPS

20

Ongoing Projects:

Metal Reef



10/15/2004

Ongoing Projects (Cont.)

- **Characterization of the Metal Slag/Metal Reef in IR-02**
 - Work Plan approved by regulators
 - Site work has started
 - Radiological support being provided

10/15/2004

HPS

22

Pending Projects

- IR-02 Northwest and Central Radiological Removal
 - Work plan being revised after RASO review
- PCB Hot Spot Soil Excavation
 - Work plan being revised after RASO review

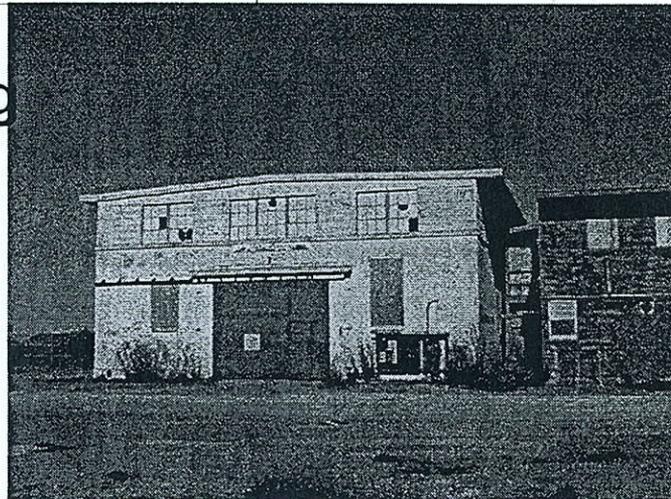
10/15/2004

HPS

23

Pending Projects

**Building
146**



10/15/2004



Pending Projects (Cont.)

- **Building 146**
 - Work plan being revised for characterization survey
 - Will cover 100% of building
- **IR-07/18**
 - Work plan being revised for scoping survey
 - Will cover 100% of site

10/15/2004

HPS

25



Pending Projects (Cont.)

- **Phase V Reports**
 - Reports document field work from January 2002 to June 2003
 - Written reports for Parcel B, C and D sites currently under review by RASO
 - Parcel E reports not yet generated
 - Reports approved by RASO for release of a site will be forwarded to regulators

10/15/2004

HPS

26



Planned FY-05 Site Work

- Preparation of Phase V Parcel E reports
- Completion of Pending Site Work
 - Building 366
 - Remediation and Final Status Survey
 - Building 364
 - Remediation and Final Status Survey
 - Building 211
 - Remediation and Final Status Survey
 - Building 253
 - Remediation and Final Status Survey

10/15/2004

HPS

27



FY-05 Site Work (Cont.)

- IR-02 Northwest and Central remediation
- PCB Hot Spots radiological support and remediation
- IR-04 Scrap Yard
 - Additional characterization, remediation and final status surveys

10/15/2004

HPS

28



FY-05 Site Work (Cont.)

- **New Scoping Surveys**
 - Buildings 203 and 521 (Power Plants)
 - Building 408 (Smelter)
 - Building 813
 - Drydocks 5 and 7
 - Building 114 Site
 - Building 140 and Discharge Tunnel
 - Building 142

10/15/2004

HPS

29



Questions and Comments

10/15/2004

HPS

30

HUNTERS POINT SHIPYARD MONTHLY PROGRESS REPORT

JULY 2004

This monthly progress report (MPR) summarizes environmental restoration activities conducted by the Navy at Hunters Point Shipyard (HPS) during July 2004. This MPR is prepared in accordance with the HPS Federal Facility Agreement, Section 6.6. The MPR is presented in three sections: Section 1, Parcel Updates, summarizes key activities at each parcel completed during the past month and planned for the upcoming 2 months; Section 2, Schedule, identifies submittals, meetings, and field activities completed during the past month and planned for the upcoming 2 months; Section 3, Other, is intended for special announcements, changes in personnel, basewide issues, or other topics not included in Sections 1 or 2.

1.0 - PARCEL UPDATES

PARCEL B JULY 2004 ACTIVITIES

- Continued post-injection groundwater monitoring for the Ferox injection treatability study at Building 123.
- Submitted final work plan with RTCs for follow-on soil vapor extraction (SVE) treatability study work plan. Began plans for implementation of SVE work plan.
- Continued preparation of a construction summary report (CSR) addendum that will present information for excavations not included in the draft CSR.
- Continued evaluation of human health and ecological risk assessment methodologies. Continued preparation of technical memorandum to support the record of decision (ROD) amendment (TMSRA).
- Continued preparation of the final corrective action plan (CAP) addendum with response to comments (RTC).
- Prepared and submitted final annual/October – December 2003 quarterly groundwater monitoring report with RTCs. Prepared and submitted draft January – March 2004 quarterly groundwater monitoring data package and field summary report. Began preparation of final January – March 2004 quarterly groundwater monitoring report with RTCs. Began conducting July – September 2004 quarterly groundwater sampling.
- Performed groundwater sampling per basewide groundwater monitoring SAP.

PARCEL B AUGUST 2004 – SEPTEMBER 2004 ACTIVITIES

- Continue implementation of follow-on SVE treatability study work plan.
- Finalize preparation of and submit the final January – March 2004 quarterly groundwater monitoring report with RTCs. Begin preparation of April – June 2004 quarterly groundwater monitoring report. Continue conducting July – September 2004 quarterly groundwater sampling.
- Finalize preparation of and submit the Draft CSR addendum.
- Continue preparation of TMSRA. Conduct a storyboard meeting with regulatory agencies to discuss TMSRA.
- Finalize preparation of and submit the final CAP addendum with RTCs.

PARCEL C JULY 2004 ACTIVITIES

- Continued anaerobic injections and groundwater circulation for sequential anaerobic/aerobic bioremediation treatability study in Building 134. Prepared and submitted final work plans with RTCs.
- Began preparation of the final work plan for follow-on zero valent iron (ZVI) treatability study at Building 272 with RTCs.
- Conducted Dry Dock 4 water sampling field work. Began preparation of the draft summary report.
- Continued preparation of the Parcel C Draft Feasibility Study (FS). Conducted a scoping meeting for the Parcel C FS.
- Submit final waste consolidation report.

PARCEL C AUGUST 2004 – SEPTEMBER 2004 ACTIVITIES

- Perform groundwater sampling per basewide groundwater monitoring SAP.
- Monitor groundwater for evidence of biodegradation as part of the sequential anaerobic/aerobic bioremediation treatability study in Building 134.
- Finalize preparation of and submit the draft summary report for Dry Dock 4 water sampling field work.
- Continue preparation of the Draft FS.

- Finalize preparation of and submit final work plan with RTCs for follow-on ZVI treatability study at Building 272.

PARCEL D JULY 2004 ACTIVITIES

- Continued sampling and removal of stockpiles under the time-critical removal action (TCRA).
- Began preparation of the draft final FS

PARCEL D AUGUST 2004 – SEPTEMBER 2004 ACTIVITIES

- Complete field work for Parcel D TCRA. Begin preparation of the draft removal action closeout report
- Perform groundwater sampling per the basewide groundwater monitoring SAP.
- Begin preparation of the Draft Final FS.

PARCEL E JULY 2004 ACTIVITIES

- Continued monthly gas monitoring at the industrial landfill. Submitted final May 2004 landfill gas monitoring report. Began preparation of June 2004 landfill gas monitoring report. Continued to prepare final January 2004 landfill gas monitoring report and final interim landfill gas monitoring and control plan.
- Submitted annual report for landfill storm water discharge management program (SWDMP).
- Continued preparation of Parcel E-2 (landfill) Remedial Investigation/Feasibility Study (RI/FS)
- Continued operation of groundwater extraction system at industrial landfill.
- Continued implementation of the metal reef/slag removal action site characterization work plan.
- Continued preparation of Investigation Remediation (IR) Site 02 removal action work plan (to be performed under the basewide radiation removal action).
- Continued preparation of action memorandum and work plan for removal of soil containing polychlorinated biphenyls (PCB).
- Submitted final waste consolidation report.

PARCEL E AUGUST 2004 – SEPTEMBER 2004 ACTIVITIES

- Perform groundwater sampling per basewide groundwater monitoring SAP.
- Continue preparation of RTCs for draft landfill extent report.
- Continue preparation of RTCs for draft landfill cap removal action closeout report.
- Prepare and submit final landfill liquefaction potential report and RTCs.
- Continue preparation of IR-02 removal action work plan (to be performed under the basewide radiation removal action).
- Continue preparation of and submit the action memorandum and work plan for removal of soil containing PCBs.
- Continue preparation of final landfill gas closeout report, pending receipt and resolution of agency comments.
- Record monthly storm water visual observations at the industrial landfill during rain events (if any).
- Continue monthly gas monitoring at the industrial landfill. Prepare and submit final June 2004 landfill gas monitoring reports. Begin preparation of July 2004 and August 2004 landfill gas monitoring reports. Prepare and submit final January 2004 landfill gas monitoring report and final interim landfill gas monitoring and control plan.
- Continue preparation of the data summary report and draft shoreline technical memorandum for the standard data gaps investigation.
- Continue implementation of the final metal reef/slag removal action site characterization work plan.
- Continue preparation of Parcel E-2 (landfill) RI/FS.
- Continue operation of groundwater extraction system at industrial landfill.

PARCEL F JULY 2004 ACTIVITIES

- Continued preparation of draft final validation study report with RTCs.

PARCEL F AUGUST 2004 – SEPTEMBER 2004 ACTIVITIES

- Prepare and submit draft final validation study report with RTCs.

2.0 SCHEDULE

This section presents meetings and deliverables conducted and planned during this reporting period.

Activities Conducted	Date
Parcel C feasibility study scoping meeting	July 1, 2004
Submitted annual report for landfill SWDMP	July 1, 2004
Submitted May 2004 Monthly Landfill Gas Monitoring Report	July 1, 2004
Submitted final Parcels C and E waste consolidation summary reports	July 6, 2004
Submitted final follow-on SVE work plan with RTCs	July 7, 2004
Submitted January to March 2004 groundwater monitoring data package/field summary report	July 20, 2004
BCT monthly meeting	July 21, 2004
RAB meeting	July 22, 2004
Submitted final annual/October – December 2003 quarterly groundwater monitoring report	July 22, 2004

Activities Planned	Date
Submit Final June 2004 Monthly Landfill Gas Monitoring Report	August 13, 2004
Submit Draft Landfill Liquefaction Potential Report	August 13, 2004
Submit Final January 2004 Monthly Gas Monitoring Report with RTCs	August 13, 2004
Submit Final Interim Landfill Gas Monitoring & Control Plan	August 13, 2004
Parcel B TMSRA storyboard meeting	August 18, 2004
Submit Draft Final Parcel F Validation Study Report	August 18, 2004
Submit Final Groundwater Monitoring Sampling & Analysis Plan (basewide)	August 20, 2004
BCT meeting	August 25, 2004
RAB meeting	August 26, 2004
Submit Final HRA Volume II with RTCs	August 31, 2004
Submit July 2004 Monthly Landfill Gas Monitoring Report	September 2, 2004
Submit Parcel E PCB Removal Action Memorandum	September 7, 2004
Submit Parcel E Standard Data Gaps Summary Report	September 8, 2004
Submit Parcel B Draft CSR Addendum	September 9, 2004
Submit Final ZVI Treatability Study Workplan for Building 272	September 13, 2004
Submit Parcel E Data Summary Report for Standard Data Gaps Investigation	September 15, 2004
Submit Final Parcel D TCRA Action Memorandum	September 17, 2004
Submit Data Package/Field Summary Report April-June for Basewide Groundwater Monitoring	September 20, 2004
Submit Parcel B Final January – March 2004 Quarterly Monitoring Report with RTCs	September 20, 2004

Activities Planned	Date
Submit Draft Summary Report for Dry Dock 4 Water Sampling Field Work	September 20, 2004
Submit Draft Parcel B April – June 2004 Quarterly Monitoring Report	September 20, 2004
Submit Parcel E IR-02 Removal Action Workplan	September 21, 2004
Submit Parcel E PCB Removal Action Workplan	September 21, 2004
BCT Meeting	September 22, 2004
RAB Meeting	September 23, 2004
Submit Parcel D Final Workplan for Time Critical Removal Action w/RTCs	September 24, 2004
Submit August 2004 Monthly Landfill Gas Monitoring Report	September 30, 2004
Submit Landfill Storm Water Discharge Management Plan (rev 2)	September 30, 2004

Note:

- Document submittal pending receipt and/or resolution of BCT comments

3.0 OTHER

- The Navy submitted the draft final Parcel A Finding of Suitability to Transfer (FOST), Revision 2 on March 19, 2004. Additional radiological surveys were completed at Building 322. The structure and slab foundation at Building 322 were removed during the week of June 21, 2004. Soil beneath the slab was then surveyed and a Final Status Survey Report is in preparation. The Navy is planning to submit the draft final FOST, Revision 3 in August 2004.

**HPS Membership/Bylaws & Community Outreach (MBCO)
Restoration Advisory Board (RAB) Subcommittee
Meeting Minutes for 11 August 2004
6:30-8:00 p.m.**

Window on the Shipyard Office

The MBCO RAB subcommittee meeting held on August 11, 2004 was called to order by Melita Rines, RAB member and Subcommittee Leader. The subcommittee meeting took place at the Window on the Shipyard Office from 6:30 to 8:00 p.m.

MBCO Subcommittee attendees: RAB Members- Melita Rines and Keith Tisdell, Jesse Mason, Environmental Protection Agency (EPA) - Jackie Lane, SulTech - Carolyn Hunter, Window on the Shipyard - Lea Loizos, Young Community Developer - Michele Brown.

SAN FRANCISCO REDEVELOPMENT AGENCY (SFRA) UPDATE

Nicole Franklin (SFRA) was not present for the MBCO subcommittee meeting, therefore was unable to provide an update. It was recommended that an action item be created to contact Ms. Franklin for an update on the SFRA action items from the July 2004 MBCO subcommittee meeting. Ms. Rines will invite Ms. Franklin to attend the September 2004 MBCO meeting to provide updates on to following items:

July 11, 2004 MBCO Subcommittee Meeting Outstanding SFRA Action Items

1. Once SFPD agrees with the term sheet for the sublease of Building 606, they will present it to the MBCO subcommittee for review.
2. Community members who witness police activity on Parcel A should contact Capt. Dudley as soon as possible at (415) 671-3150 so that he can send someone out to the site to investigate.
3. Ms. Franklin and Captain Dudley agreed to go back to SFRA and SFPD to gain clarification on the agreement made regarding activity on Parcel A. During the next MBCO subcommittee meeting SFRA will report back their findings and future steps SFPD will take in order to address the communities concern about activity on Parcel A.
4. Ms. Franklin will coordinate a meeting to discuss speeding issues on Innes Avenue with Mr. Capobres and invite interested community members to attend.

SAN FRANCISCO POLICE DEPARTMENT (SFPD) UPDATE

Keith Tisdell discussed the past SFPD activity on Parcel A and that unless the residents on the hill know that SFPD is not allowed to be on Parcel A they will not call Captain Pardini to inform him of activity. Ms. Rines stated that Ms. Franklin agreed to discuss Parcel A activity with SFPD and will get clarification on their understanding with the Navy and the community on Parcel A availability. An update on these items will be given by Ms. Franklin to the MBCO subcommittee.

RAB APPLICATION REVIEW/UPDATE

The MBCO subcommittee discussed clarifying the conditions for membership section of the RAB application. The subcommittee agreed to bold the area which speaks to "an alternate's participation not counting to RAB member's attendance" on the application.

The address on the RAB application should be changed to the SulTech address for processing. Ms. Hunter agreed to make all changes to the RAB application and submit it to the MBCO subcommittee during the September 2004 meeting.

RAB BYLAWS ADDITIONS/CHANGES

The MBCO subcommittee discussed adding an amendment to the operating procedures section of the RAB bylaws. The new RAB applicants must appear in front the MBCO subcommittee prior to being voted onto the board.

Renewing RAB members must fill out an application but do not have to appear in front of the MBCO subcommittee prior to being voted back onto the board. If a RAB member has reapplied more than once after removal due to absences, a letter explaining their renewed dedication to the board must be submitted with the second reapplication.

The MBCO subcommittee discussed that for #17 of the by-laws, all "shoulds" need to be changed to "shalls".

The group agreed that if an issue comes up that is not covered by the RAB bylaws, that an arbitrator will elected to facilitate the concern.

Ms. Rines reminded the group that the RAB Bylaw revisions will be voted on during the August RAB meeting and will go into effect in September. In order to make sure everyone starts with the same attendance rules, the entire RAB will begin with a clean attendance slate in September 2004.

Subcommittee Chair Responsibilities: The MBCO subcommittee discussed the duration of the chairs of the subcommittees. It was agreed that each subcommittee chair will serve a one year period. A subcommittee chair election will take place each June in conjunction with the election of the RAB co-chair

ADDITIONAL AGENDA ITEMS

MBCO Mission Statement: The subcommittee discussed creating a MBCO mission statement. The following mission statement was developed for the MBCO subcommittee:

The HPS RAB MBCO Subcommittee was developed to maintain a full RAB membership and update the RAB Bylaws as necessary. The MBCO Subcommittee will assist the Navy in their community outreach program by providing input on community involvement plan activities there by insuring the effectiveness of the current community outreach program.

Next MBCO Subcommittee Meeting

September 15, 2004; 6:30 – 8:00 p.m. at the Anna Waden Library

September MBCO Agenda Items

- RAB Operating Procedures
- SFRA/SFPD Updates (from previous action items)

MB CO SUBCOMMITTEE AUGUST 2004 ACTION ITEMS

1. Ms. Rines will contact Ms. Franklin and invite her to the September MBCO subcommittee meeting
2. RAB applicants must appear in front of the MBCO Subcommittee prior to be voted on by the entire board. RAB members reapplying for the RAB for a first time do not need to appear in front of the MBCO subcommittee. RAB members who are reapplying for a second time must provide a letter of intention as well as appear in front of the MBCO subcommittee prior to be voted back onto the board.
3. Ms. Hunter will make all changes discussed during the MBCO subcommittee meeting on the RAB application and provide it for approval at the September meeting.

Abbreviated Minutes

Lowman Radiological and Risk Assessment Subcommittee HPS Restoration Advisory Board

Wednesday, July 21, 2004 3-5pm Green House 4919 Third Street

Attendance: Willie Ratcliff- host, Dr. Ahimsa Sumchai - Chair, Francisco DaCosta- EJA, Michael Work-EPA, Jackie Lane - EPA, Lea Loizos - Arc Ecology, Ralph Pearce-Navy, Dan Stracka-EPA, Maurice Campbell-CFC, Pat Brooks-Navy

The meeting was called to order at 3:15pm. Dr. Dan Stracka, a Ph.D in biochemistry with the EPA's Superfund Division began the discussion with a comprehensive review of manganese at HPS and the on-going controversy over the PRG's set by the EPA for a substance present at the shipyard in abundance that is both ambient and the product of industrial activities. Manganese is used in the ship building industry to strengthen steel. It is also naturally occurring in the crystalline matrix of the rock used as fill for the shipyards working pad. Previous reports on ambient manganese at HPS have identified that beginning in the 1940's, large volumes of basalt, Chert and sandstone were removed from Hunters Point and used as fill material to create extensive areas of land from what was formerly San Francisco Bay. With respect to the issue of "background" versus "ambient", until 50 to 60 years ago, the surface of most of what is now Hunters Point Shipyard was water. Since most of the shipyard was created from fill material during the 1940's, the environmental science concept of background has been used synonymously with ambient.

Michael Work voiced community concerns that the PRG's set for manganese may not reflect the impact on ethnically diverse populations. RAB member Raymond Tompkins has cited evidence that manganese may have more potent effects on persons with melanin in their skin. Dr. Stracka stated that the health based clean up standards have been derived from "the most sensitive populations....manganese levels in drinking water were set for children". Manganese in drinking water poses its greatest toxic threat to infants whose formula is mixed with water. The discussion focused on cumulative and additive effects with other known toxins including lead and iron.

Dr. Stracka stated additional research has come from animal studies using both male and female animals. Human data has also come from adult mine workers in South Africa exposed via the inhalation route. They are presumably Black and exposed to more potent concentrations of manganese in soil and rock. Studies have also come from male and female subjects in Greece where manganese has been found in high concentration in water.

Dr. Sumchai asked how it was possible to differentiate between manganese that is "naturally occurring" and that present as a result of the extensive industrial activities at HPS without some form of "fingerprinting". Dr. Stracka stated the depth of soil the manganese was found in helped to interpret high levels. Dr. Sumchai read from the

March 28, 2002 RAB presentation titled Pre-Final ESD for Parcel B an Evaluation of Ambient manganese. The author received a TAG grant from Arc Ecology and identified his source of health effects information as Toxicological Profile for Manganese Draft for Public Comment, ATSDR, 1997 and the Concise International Chemical Assessment Document, WHO 1999. It identifies that manganese enters the environment as a result of industrial processes such as iron and steel manufacturing, from power plants and from the burning of fossil fuels. A manganese compound MMT is used as an anti-knock fule additive in unleaded gasoline. The US EPA banned MMT but the ban was lifted in 1995. The author concluded that the manganese contained in chert and basalt does not pose a health hazard to the public because it is locked into the crystalline matrix of the rock. While the author agreed with the Navy's contention that manganese should be dropped as a chemical of potential concern his recommendations do not support residential development in areas of high manganese.

Francisco DaCosta stated the Navy has "not taken responsibility in conducting empirical studies on our children" of the health effects of HPS toxins and referenced studies done on miners in Japan. A discussion of the health effects of manganese ensued and Dr. Sumchai read from the extensive listing of health effects - primarily neurological and pulmonary- described for manganese. The attendees agreed that an analysis of the literature on health effects would be warranted and it was suggested and adopted by consensus that Dr. Stracka be invited to address the full RAB on this matter and that the available literature be reviewed prior to his presentation.

Michael Work of the EPA emphasized that the role of the Superfund division of the EPA was in the establishment of "proper clean us standards" for toxins at HPS but agreed that the manganese debate remained open. Dr. Sumchai described some of the advancements in biomonitoring and the political progress made in the implementation of toxic registries and the "fingerprinting" of toxins like PCB's.

Maurice Campbell, RAB community co-chair suggested that the subject be continued as a future RAB presentation and closed the meeting with an update on the D series buildings RASO is investigating. Pat Brooks and Dr. Sumchai exchanged concerns about the changing "background radiation levels at HPS". Dr. Sumchai asked about the status of the Parcel B RI Report and HHRA. Mr. Brooks stated the overall cleanup goal is to clean up to 1 1/2 to 2X background. The Parcel B update states "continued evaluation of human health and ecological risk assessment methodologies. Continued preparation of technical memorandum to support the record of decision amendment. (TMSRA).

It was agreed to table discussions regarding Parcel B Building 103 and the Radiological Removal Action Action Report for the next meeting. Additionally the HRA response to comments will be reviewed and the analysis of findings at Building 322 will be reviewed.

The next meeting will be held on Wednesday, August 25 from 3-5pm at the Green House. Mr. Clifton Smith has been invited to prepare an independent analysis of the Building 322 survey and discussions have been held with him regarding an independent

survey and TAPP grant to establish background radiation level averages at HPS and a reference background radiation average for scientific comparison in the City and County of San Francisco.

Respectfully submitted,

Dr. Ahimsa Porter Sumchai

Technical Review Subcommittee
August 18, 2004 Meeting Summary
Topic: Preparing for the Parcel B ROD Amendment

Attendees: Lea Loizos, Clifton Smith (TAG contractor)

The purpose of the meeting was to begin preparing for the upcoming *Parcel B Technical Memorandum in Support of a ROD Amendment (TMSRA)*, which is scheduled for release at the beginning of next year. Specifically, the meeting focused on the issue of ambient metals in Parcel B soil, particularly manganese. The goal of the meeting was to develop a plan that will lead to an informed opinion by the subcommittee on the "ambient" manganese issue.

To help focus the discussion, the following list of questions was developed at the beginning of the meeting as questions that eventually need to be answered in order for the subcommittee to form an opinion on the issue:

1. Are elevated levels of manganese (Mn) truly ubiquitous in Parcel B soils?
2. What is the distribution of Mn? What percentage of samples shows Mn above the Hunters Point Ambient Level (HPAL)? Above the Preliminary Remediation Goal (PRG)?
[Mn PRG for residential soil = 1800 mg/kg; HPAL for Mn = 1430 mg/kg]
3. Are there hot spots that can be identified? If so, is their removal feasible and will it significantly reduce the overall health risk?
4. Are there previous site uses that might be attributable for some of the elevated areas of Mn?

We then conducted a brief review of relevant documents and materials that focus on Parcel B and the manganese concentrations in the soil to determine if we had enough information available to us to answer these questions. Judging by the data and maps available to us, there are large areas of Parcel B that have never been sampled, making it difficult to estimate the distribution of manganese over the entire parcel. To help us develop an informed opinion on the ambient manganese issue, we came up with the following list of requests:

- The Technical Review Subcommittee is requesting a copy of the BCT's comments on the Construction Summary Report that was released in 2002. We believe a review of these comments will be helpful for the subcommittee to gain a better understanding of the existing data gaps and the regulators' remaining concerns with Parcel B.
- The subcommittee found that the manganese data for Parcel B was split up between many different documents. We are requesting that the Navy provide us with a current figure that shows all of the sampling points and the Mn concentrations at those points, including the depth of the sample. If this figure already exists, please direct us to the proper document.
- To continue our work on the manganese issue, we are requesting that the Navy attend an upcoming technical review subcommittee meeting to discuss metals at

HPS, specifically Parcel B. We would like for the Navy to come prepared with the following information:

- The Navy's definition of ambient vs. background
- Maps showing the distribution of metals in Parcel B, including where and when the samples were taken, whether samples were taken before or after excavation, in what medium the samples were taken, and the levels detected.
- The Navy's position on metals in the ROD, in subsequent ESD's, and currently in the TMSRA.
- Lastly, the subcommittee would like to know where we can find complete characterization data - post remedial actions - for the entire parcel. Can the Navy provide us with the electronic database for Parcel B prior to release of the TMSRA?

Submitted August.25th, 2004

By Lea Loizos, Technical Review Subcommittee Chairperson

DRAFT PROPOSED BYLAWS

HUNTERS POINT NAVAL SHIPYARD RESTORATION ADVISORY BOARD

1. Purpose and Scope. The purpose of the Restoration Advisory Board (RAB) is to review, comment, and make recommendations to the Base Realignment and Closure (BRAC) Cleanup Team (BCT) on matters pertaining to the restoration and environmental cleanup of Hunters Point Naval Shipyard. In addition, the RAB should act as a forum for information exchange between the installation, affected community, Department of Defense (DOD), reuse groups, and regulatory agencies. The RAB shall be conducted in accordance with all applicable DOD and Environmental Protection Agency (EPA) guidelines.

Each member of the RAB is encouraged to provide comments, suggestions, and recommendations and participate in open discussion about all environmental issues related to the cleanup of Hunters Point Shipyard.

2. Regular Meetings of the RAB. The RAB will meet once a month at a regularly scheduled day and time selected by the RAB members. The public shall be notified of the date, time, and location as provided by applicable law.
3. Special Meetings of the RAB. Special meetings of the RAB may be called at any time by the co-chairs or a majority of the members of the RAB by oral or written notice to each member of the RAB and to any other entity or person legally required to receive notice of RAB meetings. Notice shall be received at least 24 hours before the time of the meeting, and the notice shall include the date, time, and place of the meeting and the business to be transacted. If the special meeting is to occur at a location other than the regular meeting location, a 15-day notice of the special meeting will be required. Special meetings should be announced at the regular RAB meetings, in public notices, or other related flyers to one of the three appropriate site mailing lists below:
 - A. RAB Members Only
 - B. RAB Information Distribution List
 - C. Interested Community Distribution List.
4. Quorum. A quorum for the transaction of official business at regular and special meetings of the RAB shall be considered present if at least one-third of the community RAB members are in attendance.
5. Voting. The community RAB members, or a designated alternate, may vote on any issues of concern to the RAB. The community RAB member, or alternate, must be present for the vote. A majority vote of the members present at a meeting is required for passage of any motion. No absentee ballots will be accepted.

The following general process will be followed:

- A. A motion must be made and seconded by a RAB member, or their alternate
- B. The RAB members will hold discussion on the matter
- C. The community will be afforded a reasonable amount of time to add comment on the matter, if requested

D. The motion will be put forth for a vote by the RAB members, or alternates

6. Open and Public Meetings. All meetings of the RAB shall be open and public, and all persons shall be permitted to attend any meeting of the RAB or its subcommittees, including special meetings.
7. Attendance by Governmental Agency Representatives and Members Designated by Government Agencies. All RAB members are expected to attend regular meetings. Although the RAB has no power to force government agency representatives or members designated by government agencies to attend the meetings, the RAB may write letters to the respective agency to encourage their participation or request that their appointed representatives be replaced.
8. Attendance by RAB Members. All RAB members are expected to attend regular meetings. If any member is absent from four meetings in a 12-month period he or she will be automatically removed from the RAB. There will be no distinction between excused and unexcused absences. For purposes of attendance record-keeping, a 12-month period will be defined as 12 months from the month of the current RAB meeting.

Each member may designate an alternate to attend in his or her place. An alternate has all the privileges of a RAB member but does not count towards attendance.

9. Responsibilities of Community RAB Members. Community RAB members represent a vital component in the cleanup program and they have a direct responsibility to represent the interests and concerns of their community. Responsibilities of Community RAB members include:
 - a. Making a good-faith effort to regularly attend RAB meetings, committee meetings, training sessions, site tours, and participation in reviewing the Hunters Point Shipyard environmental cleanup program.
 - b. Giving advice and comment on the cleanup effort and environmental restoration program.
 - c. Regularly reporting back to the community that they represent. Members are responsible for soliciting comment and opinion from their community on cleanup issues.
 - d. Providing for the distribution of environmental cleanup information to and from the community they represent.
 - e. Reviewing and providing comments on documents related to the cleanup effort at Hunters Point Shipyard.
 - f. Community RAB Members may not represent the RAB before any person, agency, organization, press, or the public without prior authorization from the full RAB. This provision does not apply to the RAB Co-chairs, who are duly authorized to do so.
10. Term of Office. Each community member will serve an initial two-year term. Elections for new members or reappointment of existing members will be held the meeting following receipt of a member application or reappointment date. All appointees to

vacant seats will serve out the term of that seat. Community members may remain indefinitely to their seat on the RAB.

11. Minutes. Minutes of each meeting of the RAB shall be recorded by the Navy as a summary of the meeting. A copy of the minutes shall be furnished to each RAB member within 7 days prior to the next meeting. Minutes of subcommittee meetings may be approved and incorporated into RAB meeting minutes. RAB members shall review, comment, and approve minutes at the next regular meeting of the RAB. A verbatim transcript of the meetings will also be prepared by the Navy.
12. Resignations. A member of the RAB may resign by giving notice in writing.
13. Membership Selection Criteria. The membership subcommittee or entire RAB membership will use, at a minimum, the following criteria for selecting RAB members. Additional criteria may be established at any time by the membership subcommittee or the entire RAB.

Members will be evaluated for:

1. Willingness to meet the purpose of the RAB (as stated in item #1 of these Bylaws)
2. Ability to work effectively and cooperatively with other RAB members
3. Ability to make a positive contribution to the RAB
4. Ability to serve a two-year term

In addition, when reviewing applications for the RAB, the membership subcommittee will strive to select representatives from the following types of organizations or individuals with qualities mentioned below:

Type	Number of Seats
Environmental Organizations	Balanced
Local Businesses	Balanced
Community-based Non-profit Organizations	Balanced
Residents at-large	Balanced
	Total membership = 30

The number of organizational seats should be used as guidance not a rule. If the membership subcommittee or entire RAB is unable to find organizations to fill some of these seats, then individuals who meet the first four criteria, should be appointed to the RAB as individual members.

In addition to these categories, three community organizations have permanent seats on the RAB because they are designated by government agencies, so long as their designation remains:

- The Mayor's Hunters Point Shipyard Citizens Advisory Committee (CAC)
- The Bayview Hunters Point Project Area Committee (PAC)
- U.S. EPA's Technical Assistance Grant Recipient

14. Filling Vacancies. A vacancy is defined as a seat 1) that has never been filled, or 2) from which a RAB member has officially resigned, or 3) that has been vacated because the member has missed four meetings in a 12-month period, as defined under the section on attendance.

The membership subcommittee, or in its absence, the entire RAB, will review all RAB member applications. If no suitable applications are on file, then new applications will be solicited by placing advertisements in the local newspaper and in Navy publications. In addition, announcement of RAB openings will be made at the RAB meetings and at the Mayor's Hunters Point Shipyard Citizens Advisory Committee meetings. The membership subcommittee, or entire RAB, will submit its recommendations for new members to the full RAB for discussion and vote. Renewing RAB members are required to fill out a new application within 30 days after the expiration of their term. Renewing RAB members are not required to attend a membership subcommittee meeting prior to being approved. Only new applicants are required to attend a membership subcommittee meeting prior to coming before the full RAB board for elections. The membership application will reflect the distinction between the renewing member and the new applicant. Membership applications are available on the Hunters Point section of the Navy's web page at <http://www.efds.w.navy.mil/Environmental/HuntersPoint.htm>.

15. Election of Community Co-chair. The Community Co-chair shall serve a term of one year from July 1 to June 30. Prior to the expiration of the Community Co-chair term, the RAB will announce the availability of the co-chair position. Interested RAB members will have the opportunity to 'self nominate' or nominate a member of the RAB for the co-chair position. At the first regular meeting of the RAB prior to the Community Co-chair term expiration all community members of the RAB shall elect a co-chair. The Community Co-chair may be re-elected indefinitely. If the Community Co-chair resigns or loses their seat, a new co-chair will be elected and will finish out the term and then have to run for re-election.

16. Duties of Navy and Community Co-chairs. The Navy and Community Co-chairs shall preside over all meetings of the RAB. When either co-chairs are absent, their alternates designated by the respective co-chair may lead the RAB meeting. The co-chairs may authorize RAB representatives to attend meetings and hearings for the purpose of representing the RAB. The co-chairs are responsible for preparing and soliciting input for the agenda as well as assuring that the concerns of the community are heard and recorded and that the RAB's comments and/or recommendations are forwarded to the BRAC Cleanup Team and Navy for incorporation within the decision-making process at Hunters Point Shipyard.

17. Subcommittees. Subcommittees shall be established by a vote of the RAB. Each subcommittee shall elect a subcommittee chairperson, who shall be a RAB representative. Subcommittees shall set up a Mission Statement and develop operating procedures. Members of the public may sit on and participate in any subcommittee.

Ad hoc subcommittees may be created for a short-term basis to resolve short-term issues. Continuance of an ad hoc subcommittee beyond an initial 12 month period may be reviewed by the RAB on a case-by-case basis.

Subcommittees shall prepare meeting minutes to reflect a summary of the meeting. Minutes shall be distributed to the RAB at the following RAB meeting or in a timely manner. General attendance at subcommittees shall be taken and recorded in the minutes. Based on review of subcommittee attendance records, a determination will be made by the RAB to suggest a change in meeting frequency, merging with existing subcommittees, or dissolution.

18. Amendments. Once per year, amendments to the Bylaws shall be brought before the full RAB for referral to the Membership/Bylaws subcommittee. Membership/Bylaws subcommittee will make recommendations, after review, and then resubmit to the full RAB at the September RAB meeting for a vote. Amendments to these Bylaws require a majority vote at the September RAB meeting. Written notice of the amendments and their terms must be given at least one week prior to the meeting.
19. Parliamentary Authority. Matters not covered by these Bylaws shall be governed on a case-by-case basis at the discretion of the Arbitrator. Arbitrator shall be elected to serve a one-year term from January to January in order to cover the election of the Chair position.
20. Rules of Conduct. All RAB members and members of the public are encouraged to express their opinion on any matter of consideration before the RAB. In the interest of trying to conduct the meetings within a reasonable time frame, each agenda item will be discussed among the RAB members first and then the public will be allowed time to comment. The Chair may limit the time allotted for public comment.

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6 HUNTERS POINT SHIPYARD
7 RESTORATION ADVISORY BOARD
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9
10 REPORTER'S TRANSCRIPT OF MEETING
11
12 August 26, 2004
13
14 Hunters Point Shipyard, Building 101
15 Donahue Street at Hudson Avenue
16 San Francisco, California
17
18
19 Reported by Christine M. Niccoli, RPR, C.S.R. No. 4569
20 -----
21 NICCOLI REPORTING
22 619 Pilgrim Drive
23 Foster City, CA 94404-1707
24 (650) 573-9339
25 CERTIFIED SHORTHAND REPORTERS SERVING THE BAY AREA

Page 1

1 PARTICIPANTS
2
3 FACILITATOR:
4 ROBERT SURBER - Pendergrass & Associates
5 CO-CHAIRS:
6 KEITH FORMAN - United States Navy SWDIV
7 MAURICE CAMPBELL - Business Development, Inc.
8 (BDI); Citizens Advisory Committee;
9 Community First Coalition (CFC); New
10 California Media; NEW BAYVIEW NEWSPAPER
11
12 RAB MEMBERS & REGULATORS
13
14 BARBARA BUSHNELL - Residents of the Southeast Sector
15 (R.O.S.E.S.), Silverview Terrace Homeowners
16 Association, resident
17 CHARLES L. DACUS, SR. - Hunters Point resident,
18 Residents of the Southeast Sector (R.O.S.E.S.)
19 MARIE J. FRANKLIN - Shoreview Environmental Justice
20 Movement Inc.
21 MITSUYO HASEGAWA - JRM Associates
22 JACQUELINE ANN LANE - U.S. Environmental Protection
23 Agency (EPA)
24 TOM LANPHAR - California Department of Toxic Substances
25 Control (DTSC)

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1 RAB MEMBERS & REGULATORS [Cont.]:
2
3 LISA LAULU - All Islanders Gathering As One (A.I.G.A. 1)
4 LEA LOIZOS - Arc Ecology
5 KEVYN D. LUTTON - Resident
6 J. R. MANUEL - JRM Associates, India Basin resident
7 JESSE MASON - Community First Coalition (CFC)
8 JAMES MORRISON - Environmental Technology, Residents of
9 the Southeast Sector (R.O.S.E.S.)
10 GEORGIA OLIVA - Communities for a Better Environment
11 (CBE), CCA member
12 KAREN G. PIERCE - Bayview Advocates, Bayview-Hunters
13 Point Democratic Club, Bayview-Hunters Point Health &
14 Environmental Assessment Program (HEAP)
15 MELITA RINES - India Basin Neighborhood Association
16 SEAL'IMALIETOA SAM RIPLEY - Samoan American Media
17 Services
18 AHIMSA PORTER SUMCHAI - Bayview-Hunters Point Health &
19 Environmental Resource Center (HERC)
20 KEITH TISDELL - Hunters Point resident
21 RAYMOND TOMPKINS - Bayview-Hunters Point Coalition on
22 the Environment
23 MICHAEL WORK - U.S. Environmental Protection Agency (EPA)
24 LEHUANANIKEALAKAUILANIALOHILANILEILANI WRIGHT - JRM
25 Associates

Page 3

1 AUDIENCE
2
3 JOHN ADAMS - SulTech
4 PATRICIA BROWN - Shipyard artist
5 PHIL BURKE - Lennar
6 PAUL CARP - Congresswoman Nancy Pelosi District Office
7 GEORGE CICOTTE - AFIOH
8 DARYL DeLONG - New World Environmental Inc.
9 STEPHEN DICKSON - Young Community Developers (YCD)
10 BENJAMIN FEICK - Waste Solutions Group (WSG)
11 BARBARA GEORGE - Women's Energy Matters
12 JENNIFER GIBSON - SulTech
13 CHUCK HOLMAN - Foster Wheeler
14 CAROLYN HUNTER - SulTech
15 LAURA L. LOWMAN - United States Navy Radiological Affairs
16 Support Office (RASO)
17 LESLIE LUNDGREN - SulTech
18 SHERLINA NAGEER - Literacy for Environmental Justice
19 (LEJ)
20 JEANETTE OSBORNE
21 RALPH PEARCE - United States Navy
22 DENNIS M. ROBINSON - Shaw Environmental &
23 Infrastructure, Inc.
24 LEE H. SAUNDERS - United States Navy
25 MATTHEW SLACK - United States Navy Radiological Affairs
26 Support Office (RASO)
27 ///

Page 4

1 AUDIENCE [Cont.]:
 2
 3 CLIFTON J. SMITH - C.J. Smith & Associates, Eagle
 4 Environmental Construction, EMU
 5 PETER STROGANOFF - United States Navy ROICC Office
 6 JULIA VETROMILE - SulTech
 7
 8 --oOo--

Page 5

1 although the other one wasn't great. But you can't see
 2 each other and people behind each other.
 3 So I'm going to ask you to wait for the
 4 microphone and to -- so we can make sure that everybody
 5 hears everyone. Thank you.
 6 MR. FORMAN: Hopefully, this will be a one-time
 7 meeting venue, and we will be back in Dago Mary's next
 8 month. As you probably know, there's quite a bit of
 9 renovation going on there and some other -- some other
 10 upgrades to the building. And there's been a change of
 11 ownership too at Dago Mary's. So --
 12 MR. SURBER: And you are?
 13 MR. FORMAN: And I am Keith Forman, the Navy
 14 BRAC Environmental Coordinator.
 15 MR. SURBER: Thank you.
 16 MR. CAMPBELL: I'm Maurice Campbell, Community
 17 First Coalition.
 18 MS. OLIVA: Georgia Oliva, Shipyard artist.
 19 MS. HASEGAWA: Mitsuyo Hasegawa, RAB member.
 20 MR. TISELL: Can't hear you.
 21 MS. WRIGHT:
 22 Lehuananikealakauilanihohilanileilani --
 23 MR. TISELL: Who?
 24 MS. WRIGHT: Shut up -- RAB member.
 25 MR. WORK: Michael Work, U.S. EPA.

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1 SAN FRANCISCO, CALIFORNIA, THURSDAY, AUGUST 26, 2004
 2 6:12 P.M.
 3 --oOo--
 4 MR. SURBER: Good evening and welcome. As I
 5 said a moment ago, my name is Robert Surber. I am
 6 filling in for Marsha Pendergrass this evening. Marsha
 7 is working in Boston this week. She gives her apologies
 8 for not being able to be here this evening and asked me
 9 to fill in for her.
 10 Let me say to begin with that I'm -- I did
 11 attend the last meeting just to see what these meetings
 12 look like. But it's clear to me I'm not as clear on the
 13 procedures as you are. I also won't know your names as
 14 well as Marsha does. She said just read the name tags,
 15 but looks like I'm going to have to think about Plan B.
 16 So I'll point and say "Hey, you," and those
 17 sort of things but ask for your forbearance with that.
 18 So I guess we're going to call this meeting to
 19 order at this moment, and Marsha said just follow the
 20 agenda.
 21 So we begin with introductions and then review
 22 of the agenda. I've introduced myself, so why don't we
 23 begin?
 24 Also, let me say, I think this room is much
 25 more difficult to hear each other in than the other one,

Page 6

1 MR. STROGANOFF: Peter Stroganoff from the Navy
 2 ROICC Office.
 3 MR. DACUS: Charles L. Dacus, Sr., ROSES and
 4 RAB.
 5 MS. BUSHNELL: Barbara Bushnell, ROSES, RAB,
 6 and Silverview Terrace Homeowners Association.
 7 MS. LOIZOS: Lea Loizos, RAB member
 8 representing Arc Ecology.
 9 MS. PIERCE: Karen Pierce, Bayview-Hunters
 10 Point Democratic Club, RAB member.
 11 MR. MORRISON: James Morrison, resident.
 12 MR. TOMPKINS: Raymond Tompkins,
 13 Bayview-Hunters Point Coalition on the Environment.
 14 MS. LANE: Jackie Lane, community involvement,
 15 EPA.
 16 MS. BROWN: Patricia Brown, Shipyard artist.
 17 MR. RIPLEY: Seali'imalietao Sam Ripley, Samoan
 18 community liaison, Aigatasi.
 19 MS. GEORGE: Barbara George, Women's Energy
 20 Matters.
 21 MR. SMITH: Clifton Smith, EMU, technical
 22 adviser, CFC.
 23 MS. NAGEER: Sherlina Nageer, LEJ.
 24 MR. TISELL: Keith Tisdell, RAB member.
 25 MR. BURKE: Phil Burke, Lennar.

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1 MR. FEICK: Ben Feick, Waste Solutions Group.
 2 MR. PEARCE: Ralph Pearce, Navy RPM.
 3 MR. DeLONG: Daryl DeLong, New World
 4 Technology.
 5 MR. HOLMAN: Chuck Holman, Foster Wheeler.
 6 MR. MASON: Jesse Mason, resident.
 7 MS. LUTTON: Kevyn Lutton, resident.
 8 MR. ROBINSON: Dennis Robinson, Shaw
 9 Environmental.
 10 MS. LUNDGREN: Leslie Lundgren, Tetra Tech.
 11 MS. LOWMAN: Laurie Lowman, Navy Radiological
 12 Affairs Support Office.
 13 MR. SLACK: Matthew Slack, Navy Radiological
 14 Affairs Support Office.
 15 MR. SAUNDERS: Lee Saunders, U.S. Navy.
 16 MS. VETROMILE: Julia Vetromile, Tetra Tech.
 17 MS. HUNTER: Carolyn Hunter, Tetra Tech.
 18 MS. GIBSON: Jennifer Gibson with SulTech.
 19 MS. HUNTER: Okay. One more in the back.
 20 DR. SUMCHAI: Ahimsa Sumchai, RAB.
 21 MS. VETROMILE: One more.
 22 MR. FORMAN: Tom Lanphar. Tom Lanphar,
 23 Department of Toxic Substances Control. He's here.
 24 MS. PIERCE: Where are the bathrooms?
 25 MS. WRIGHT: Don't need the microphone either.

1 me. So I ask that you defer to the chairs.
 2 MR. FORMAN: Yeah. Barbara, there's no
 3 set-in-concrete agenda to the meeting. Maurice and I
 4 had discussed with Marsha Pendergrass, and actually, one
 5 of her recommendations was to move around the order of
 6 the subcommittee reports versus the presentations.
 7 So I think for the last two we have had the
 8 subcommittee reports in the end. Did you have a
 9 recommendation to make? Or --
 10 MS. BUSHNELL: It's my understanding that that
 11 would be the set program, that the sub- --
 12 MR. FORMAN: Okay.
 13 MS. BUSHNELL: -- committee reports would be
 14 at the initial part.
 15 MR. FORMAN: Yeah. No. We have been pretty
 16 flexible with that, and lately we have been just trying
 17 it the other way around.
 18 MS. BUSHNELL: Okay, thank you.
 19 MR. FORMAN: Sure.
 20 MR. SURBER: Okay. Thank you.
 21 Approval of the meeting minutes from last
 22 month. Any comments or questions, suggestions about the
 23 minutes?
 24 Yes.
 25 MS. OLIVA: I have a comment. I'm Georgia

1 MS. PIERCE: Where are the bathrooms?
 2 MS. HUNTER: Bathrooms are down the hall and to
 3 the right.
 4 MR. SURBER: Thank you.
 5 Thank you. The agenda tonight includes -- and
 6 I believe you all have it in front you, but just to
 7 review quickly -- approval of the meeting minutes from
 8 last month with action items, announcements from the
 9 Navy, announcements from the community and other
 10 announcements and then, I understand, a presentation or
 11 an update on the HPS Radiological Program after which
 12 we'll have a break followed by subcommittee reports, and
 13 I understand one of those includes a review and expected
 14 vote on the bylaws, community comment period and an
 15 adjournment at 8 o'clock.
 16 Any additions or corrections to the agenda?
 17 Yes.
 18 MS. BUSHNELL: Barbara Bushnell. It was my
 19 understanding that the subcommittee meeting minutes --
 20 the subcommittee reports would be in the first part of
 21 the meeting. Am I wrong in that assumption? 'Cause
 22 they had information that might help us in the latter
 23 part of it or -- I thought that was announced last
 24 month. It's just a question.
 25 MR. SURBER: All I know is what's in front of

1 Oliva, and I asked Pat Brooks about getting the -- an
 2 analysis, and he said in the minutes "Mr. Brooks
 3 responded that he expected it to be completed the
 4 following Tuesday, and that he would provide copies of
 5 the report to any interested RAB member." And he said
 6 he was going to send me a copy, E-mail it. Never did.
 7 So I would like to . . .
 8 MR. SURBER: Does that change the minutes, or
 9 what happens subsequent?
 10 MS. OLIVA: That's a comment.
 11 MR. SURBER: Okay.
 12 MS. OLIVA: Comment.
 13 MR. SURBER: Okay. Thank you.
 14 MR. FORMAN: Yeah. On the break, could you
 15 tell me what report that is specifically?
 16 MS. OLIVA: "... instruments were used to
 17 evaluate the building materials." There's no folio on
 18 this.
 19 MR. FORMAN: I'm sorry. Which?
 20 MS. OLIVA: It's Building 322.
 21 MR. FORMAN: Okay. "Mr. Brooks stated that
 22 before he addressed the Parcel A FOST and Building 322,
 23 he wanted to discuss . . ." Okay.
 24 So I will check and I'll read. I won't keep
 25 you waiting. I'll read that and then -- oh. "Ms. Oliva

1 asked which instruments were used to evaluate the
2 building materials." That paragraph?
3 MS. OLIVA: Right.
4 MR. FORMAN: Okay. I'll take that for action.
5 One advantage we do have here tonight is we
6 have Laurie Lowman here who's going to give a
7 presentation.
8 MS. OLIVA: But she wasn't here tearing down
9 the Building 322.
10 MR. FORMAN: Right, right.
11 MS. OLIVA: So Pat knew more about it. So he
12 was going to get me the information.
13 MR. FORMAN: Okay. I'll follow up on that.
14 MS. OLIVA: Thank you.
15 MR. SURBER: Comment in the back?
16 MR. MASON: Yeah. One of my largest concerns
17 is that -- the Economic Committee, and I'm seeing here
18 that there was no report last time, and I was wondering
19 what was going on, what had happened at the last
20 economic meeting on July -- what was it? -- August 10th.
21 Is there any information?
22 MS. HUNTER: Actually, I had the meeting
23 minutes and I left them. And so I can attach the
24 Economic Subcommittee meeting minutes and mail those to
25 the RAB so that you guys all have them.

1 MS. WRIGHT: Abstention, abstention.
2 MR. SURBER: Yes?
3 MS. WRIGHT: Abstention.
4 MR. SURBER: Oh, okay. One abstention.
5 Okay. On the action items related to the
6 minutes, the first was: The Navy was to notify David
7 Terzian of the Navy Caretaker Site Office prior to
8 removal of Astoria Metals Company, and Mr. Forman was
9 going to take care of that.
10 MR. FORMAN: And that's going to be a running
11 action item. I think it's noted. It's a running action
12 until that activity occurs and still don't have that
13 yet.
14 MR. SURBER: I see. So that hasn't occurred,
15 and we'll carry it over to the next meeting.
16 MR. FORMAN: Carry over, and I'm still on the
17 hook --
18 MR. SURBER: Okay.
19 MR. FORMAN: -- to notify them.
20 MR. SURBER: So you're pursuing that. Good.
21 Thank you.
22 RAB members with information on potential
23 storage bunkers were to provide this information to the
24 Navy.
25 Does anybody know whether that's occurred?

1 MS. VETROMILE: They were sent out.
2 MR. SURBER: Are there any other comments about
3 or questions about the minutes?
4 Yes, over here.
5 MS. LOIZOS: Lea Loizos. This is just a
6 clarification. But on page 3 of 12 in the subcommittee
7 report that I gave last month, line 37: "Ms. Loizos was
8 considering having the Navy give a technical
9 presentation during future meetings of the Technical
10 Review Subcommittee."
11 What I said -- and it might not have been
12 understandable -- was that we're considering having the
13 Navy give a preview of the upcoming RAB meetings,
14 technical presentation, which, you know, I just wanted
15 that to be clarified in the minutes during future
16 meetings. Does that make sense? Okay.
17 MR. SURBER: Other comments or questions about
18 the minutes?
19 We will have a motion to approve the minutes.
20 MR. TOMPKINS: So moved.
21 MS. PIERCE: Second.
22 MR. SURBER: All in favor?
23 THE BOARD: Aye.
24 MR. SURBER: Any opposed?
25 The minutes are passed as commented and --

1 MR. CAMPBELL: I was supposed to make a
2 videotape available. I found the second part of the
3 videotape. I haven't found the first part; but as soon
4 as I put my hands on that, I will make it available.
5 MS. ATTENDEE: Excuse me?
6 MR. MASON: Can't hear you.
7 MR. CAMPBELL: I said, basically, I have two
8 videotapes by a former worker, and I found Part Two. I
9 have not put my hands on Part One. But as soon as I am
10 able to, I will make it available to the Navy.
11 MR. SURBER: Jesse Mason?
12 MR. MASON: Yeah. I like to say something.
13 You know, there was a time that -- I think her
14 name was Theresa Coleman. She had talked about an area
15 up on top of the hill that there was a long drop through
16 the mountain, through the hill there, you know, to an
17 area.
18 I'd like to talk to her and get her to show me
19 where that is, because what that is, is: It was in an
20 area where they thought a lot of kids would fall into
21 that hole.
22 So I'd like to contact her and have her show me
23 where that area of the -- of that hill is and let the
24 Navy know about it.
25 MR. FORMAN: If you could coordinate with

1 Maurice, and then Maurice and I will get together and --
 2 yeah, if you can pursue that.
 3 Do you know how many years ago she was talking
 4 about her recollection?
 5 MR. MASON: It wasn't that long ago. It wasn't
 6 that long ago. I know that she was doing Ujamaa up
 7 there. There was an organization that she was involved
 8 with. That's when she found out about that drop, that
 9 hole in the ground there.
 10 MR. CAMPBELL: What I'd like to say about that
 11 is, there's something I think Ray Tompkins and myself
 12 went out and investigated --
 13 MR. MASON: I can't hear you.
 14 MR. CAMPBELL: Ray Tompkins and I, myself, went
 15 out and investigated sometime back, and we have
 16 photographs of it. It looks like sort of a sewage
 17 draining type thing, but it's about 3 foot above the
 18 ground. It's about 3 1/2 foot wide, and it's filled
 19 with rocks. If it was a drain, it would be level with
 20 the ground so water could run off.
 21 So it must have been some sort of ventilation
 22 shaft, and we can show you where that is.
 23 MR. FORMAN: Okay.
 24 MR. SURBER: Have any other RAB members
 25 provided information to the Navy about potential bunker

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1 on the day. If there is a day during the week that
 2 you're available, morning or evening. So --
 3 MR. SURBER: Gentleman in the back?
 4 MS. LOIZOS: We're counting.
 5 One --
 6 MR. SURBER: Oh.
 7 MS. LOIZOS: -- two --
 8 MR. SURBER: I'm sorry. You put your hands up.
 9 Excuse me. Forgive me.
 10 MS. LOIZOS: One, two, three, four, five,
 11 okay, six, seven. Okay.
 12 How many peo- -- how many people who would want
 13 to come are not able to come? Please raise your hand.
 14 (Pause.)
 15 MR. RAB MEMBER: Three.
 16 MS. LOIZOS: Okay. Well, I don't know what to
 17 do here.
 18 Keith, any thoughts on, I mean, how to
 19 resolve --?
 20 MR. FORMAN: Well, why don't we start off with
 21 the first field trip and then see how that goes and if
 22 that encompasses eight or nine people? We don't want
 23 too large of a size of a crowd anyway because we want to
 24 show people things close up, and so it's better with
 25 small groups anyway.

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1 sites?
 2 (No verbal response elicited.)
 3 MR. SURBER: Not noted if so.
 4 The Navy was to arrange a field trip for RAB to
 5 review [sic] the site where zero-valent iron will be
 6 used. Mr. Brooks was going to follow up on that.
 7 And the comment, does this mean it's resolved,
 8 the field work will begin by mid August?
 9 MR. FORMAN: No. There's an update on that.
 10 Ryan Ahlersmeyer is the project -- oh, go ahead.
 11 MS. LOIZOS: Well, if you have the
 12 update . . . I was just going to say that I was
 13 coordinating with Ryan to set that up. And I spoke with
 14 him yesterday, and he suggested the week of September
 15 13th. And I -- I requested -- I asked him if it was
 16 possible to do it on a Saturday because I know that a
 17 weekday is probably not ideal for most people. But the
 18 contractors don't work on Saturdays, he said.
 19 So if -- I don't know how we can figure this
 20 out. But -- well, if I could see a show of hands from
 21 the RAB members or anybody who is interested of who
 22 would be able to come on a weekday, whether it be
 23 morning or afternoon. He said it didn't matter.
 24 MR. SURBER: Comment in the back?
 25 MS. LOIZOS: What -- I mean, even if it depends

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1 So let's do the first one with eight to nine
 2 people, and then we'll try to get in a second field
 3 trip.
 4 MS. LOIZOS: Okay.
 5 Carolyn, could we maybe pass something around
 6 so that you get everyone's name and their -- the best
 7 way to contact them --
 8 MS. HUNTER: Yes, you got it.
 9 MS. LOIZOS: -- rather than take the time up
 10 right now?
 11 MR. FORMAN: You say week of September 13th?
 12 MS. LOIZOS: Yeah. Oh, and maybe if you could
 13 write down on the sign-up sheet which day of the week is
 14 best for you in a.m. or p.m., please. Thanks.
 15 MR. FORMAN: Good. And then we're talking
 16 about a field trip that would take no more than one hour
 17 of your time.
 18 MR. SURBER: Okay. So that action item will
 19 carry over until the field trips are completed, I
 20 presume?
 21 MR. FORMAN: Yes. Yeah, keep that as an action
 22 item for --
 23 MR. SURBER: Okay. Thank you.
 24 New items of the last meeting: "EPA to provide
 25 information on measured levels of local background

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1 radiation." Michael Work with EPA was going to do that.
 2 Yes?
 3 MR. WORK: Yeah. I apologize to the RAB. My
 4 main technical support person, Steve Dean, has been out
 5 of the office almost continuously since last month, and
 6 he's our radiation expert.
 7 All I've been able to find so far is just
 8 general information on background radiation, nothing
 9 specific to San Francisco, the Bay Area. But I think
 10 once I'm able to work with Steve, I'll be able to come
 11 up with something.
 12 MR. SURBER: Okay. So this item will carry
 13 over to next month?
 14 MR. WORK: Yeah.
 15 MR. SURBER: Okay. Thank you.
 16 "Navy to check on the return of the map index
 17 to Building 101." Well, here we are. But Mr. Brooks
 18 is -- Navy will return the map when finished with the
 19 evaluation.
 20 Is that still the plan?
 21 MR. FORMAN: Yeah, I believe it was returned.
 22 MR. SURBER: So the map has been returned, so
 23 this one is resolved?
 24 MR. FORMAN: Yeah.
 25 MR. SURBER: Okay. "SulTech to mail copies of

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1 E. Waden Branch Library with HPS documents on compact
 2 disk and determine the feasibility, and it says the Navy
 3 will include some CD versions of older reports as well
 4 as making hard copies for the current work.
 5 So that item is resolved as well, apparently.
 6 Okay. Good. Thank you.
 7 Navy announcements, Mr. Forman.
 8 MR. FORMAN: Yes. I believe --
 9 MR. SURBER: Could you wait for the microphone?
 10 MR. FORMAN: Sure.
 11 Okay. I believe we have covered it. I will
 12 let the RAB know if we -- if it looks like we are not
 13 going to be able to meet in Dago Mary's next month. But
 14 from everything that I know now, we will be able to
 15 return to that venue.
 16 One thing I did want to place in people's mind
 17 is to start thinking about for the future of the RAB,
 18 Dago Mary's may not be there forever, or we may not be
 19 able to use it as a meeting place forever. I don't even
 20 know yet who the new owners are.
 21 But be thinking of a potential future meeting
 22 place that you think would meet your needs; and if you
 23 could, either contact Maurice or myself because we're
 24 both very interested in making sure that there's a good
 25 venue for future RABS.

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1 proposed membership by-laws to RAB members," and that's
 2 been done, correct? Okay.
 3 "Navy to provide interested RAB members with a
 4 copy of the Draft Final FOST Revision 3," and
 5 Mr. Brooks. And it says copies provided to several
 6 members.
 7 Is that sufficient for that item?
 8 (No verbal response elicited.)
 9 MR. SURBER: Then that's resolved.
 10 Yes, sir.
 11 MR. TISDELL: I haven't received nothing yet,
 12 you know, as far as --
 13 MR. SURBER: Well, this says copies to be
 14 provided to Ahimsa Sumchai, Maurice Campbell, and Lea
 15 Loizos. So I don't know whether you are -- Are you
 16 requesting a copy?
 17 MR. TISDELL: Yes. I would like to have one.
 18 MR. SURBER: And your name, please?
 19 MR. TISDELL: Keith Tisdell.
 20 MR. SURBER: Can we see that Mr. Tisdell gets a
 21 copy?
 22 MR. ATTENDEE: Sure.
 23 MR. TISDELL: Thank you.
 24 MR. SURBER: Okay. Thank you.
 25 Navy to assess feasibility of providing Anna

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1 MR. SURBER: In the back.
 2 MR. MASON: No. It's okay.
 3 MR. SURBER: Okay. Scratch that.
 4 Okay. Mr. Campbell?
 5 MR. CAMPBELL: Yeah. I have three brief
 6 announcements. I'd like to say thank you to Ahimsa.
 7 Somebody is probably alive today because of an action
 8 that --
 9 MR. MASON: Can't hear.
 10 MR. CAMPBELL: -- because of an action she
 11 took. That's one.
 12 I'd like to encourage more people working with
 13 the subcommittees because we're coming down to a
 14 critical time period right now. We need all the
 15 involvement that we can get.
 16 And, well, I'll just leave it there for now.
 17 MR. SURBER: Okay. Are there other
 18 announcements?
 19 (No verbal response elicited.)
 20 MR. SURBER: Okay. I understand, then, we'll
 21 have a presentation on the -- or update on the HPS
 22 radiological program with Laurie Lowman.
 23 MR. FORMAN: Need to dim the lights.
 24 MS. LOWMAN: Thank you.
 25 MR. FORMAN: Well, let's see once it's on.

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1 MS. GIBSON: Is that too dark?
 2 MR. FORMAN: That's not very bright.
 3 MR. SURBER: Turn the back lights on?
 4 Can people in the back read . . . ?
 5 MS. GIBSON: Is that okay?
 6 MS. LOWMAN: Ready?
 7 MR. SURBER: Okay. Can everybody see this?
 8 MR. TOMPKINS: Could you raise it up? Need to
 9 put a book or something under the projector.
 10 MR. SURBER: Should have a thing . . .
 11 MS. VETROMILE: Oh, you want the projector
 12 raised up. You need to raise the screen higher.
 13 MR. FORMAN: I think he's saying just -- yeah,
 14 just raise the -- yeah.
 15 MS. VETROMILE: Can't raise it very much.
 16 MR. TOMPKINS: This part is off the screen.
 17 MR. FORMAN: Does that look better?
 18 MR. TOMPKINS: Yeah.
 19 MS. LOWMAN: Does it help?
 20 MR. TOMPKINS: She can't hold it. Charles got
 21 it. Pass it on.
 22 MS. LOWMAN: Are we good?
 23 MR. TOMPKINS: Good.
 24 MS. LOWMAN: Can you see? Yeah?
 25 MR. SLACK: So that's better.

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1 MS. LOWMAN: Okay? We're ready to go.
 2 As you all know, I'm Laurie Lowman. I'm with
 3 the Navy's Radiological Affairs Support Office, director
 4 of radiation program support and low-level radioactive
 5 waste for the Navy here to provide another HRA update.
 6 The responses to comments on the HRA, we're
 7 making great progress here. They went out and were
 8 distributed on 27 July 2004.
 9 I have only received one comment back on the
 10 responses. It was from EPA, and we have already taken
 11 care of that one.
 12 There was one additional responder that is not
 13 on this list, and it was Barbara George with Women's --
 14 MS. GEORGE: Energy Matters.
 15 MS. LOWMAN: -- Energy Matters.
 16 Thank you.
 17 I'm still working on that response. I should
 18 have gotten back to her sooner, and I just haven't
 19 gotten that done. But it will be coming out soon.
 20 Next slide.
 21 For the final HRA, we made the following
 22 modifications to the document. We incorporated all the
 23 responses to comments, including a reassessment of
 24 Section 8 and the contamination potentials and migration
 25 potentials.

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1 We added Building 322 in Parcel A as an
 2 impacted site. We added the U.S.G.S. aerial photographs
 3 that Mr. Campbell had provided and let us know about.
 4 We added building use comparison table. That included
 5 the information that was on the map that was found here
 6 in Building 101.
 7 Because the map is hand-painted on a 5 by 8
 8 piece of plywood, I can't really get it scanned and get
 9 it into the document. So we did do -- get the building
 10 list off of it and did do a comparison with the other
 11 building lists that we had found.
 12 Near as we can tell from looking at the other
 13 lists and the other maps, it's a 1951 map that they
 14 added other buildings to. There's buildings on there
 15 that were there in 1951 that are not there later on,
 16 and -- but it has Building 815, and that wasn't built
 17 until 1955. So that's our best guess as far as the HRA
 18 team as far as the date of the map that was here in
 19 Building 101.
 20 We also added sediment as a potential
 21 contamination and potential migration pathway category.
 22 So that was in response to numerous comments and
 23 concerns that we hadn't adequately addressed the
 24 sediment potential contamination problem, and that has
 25 been added to every site that is considered an impacted

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1 site and listed in Section 8, and it is also listed in
 2 Section 7 with a definition.
 3 We were notified of three additional
 4 interviewees, and we were not able to contact them
 5 successfully at this time. One was Mrs. Kennedy's
 6 grandson, I believe it is, correct?
 7 And there was another one that someone had
 8 contacted EPA -- I don't have the name with me right
 9 now. I'm not sure what the name was -- about waste
 10 being disposed or stored on Parcel A.
 11 But we have attempted numerous times to contact
 12 both of these individuals, and we were not able to do
 13 so. There -- We have left voice mails. We have not
 14 had return calls so far. But we will keep trying.
 15 The third one is, oddly enough, someone we
 16 found through another office worker in Virginia at our
 17 office who says he was one of the personnel here at
 18 Hunters Point who actually deconned the Operation
 19 Crossroads ship.
 20 So we're very interested in seeing what he has
 21 to say. However, he is older, retired, of course, and
 22 he has gone on vacation. So I haven't been able to
 23 reach him either.
 24 In addition, the HRA team -- myself, Mr. Haney,
 25 and Mr. Polyak -- did a word-by-word, line-by-line

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1 detailed review of the final document. The final HRA
2 has been sent for print production, and it will be --
3 the publication date right now is set for 31 August
4 2004.

5 Now, I want to make sure that everyone
6 understands that just because we're issuing a final HRA
7 does not mean that the historical assessment process is
8 over. The HRA is a snapshot-in-time document. So we
9 would continue to take new interviewees. We would
10 continue to take any new information about the site
11 if -- Miss George was providing me some additional
12 archive locations we could possibly look at.

13 We will continue to do additional research. We
14 would -- We could publish that in specific reports
15 about each of the sites we find information on, or we
16 could do addendums to the HRA. But the HRA will stand
17 as it is as a snapshot-in-time document.

18 MR. MASON: Laurie, could I ask you a question?

19 MS. LOWMAN: Wait till I'm through on that,
20 okay? Or do you want to ask right this second?

21 MR. MASON: Well, because I'm running into
22 people that have talked about working on the Shipyard
23 some time ago, and I'm just wondering if we could still
24 get those people involved.

25 MS. LOWMAN: Absolutely. You get me their name
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1 concrete and some asphalt areas.

2 This is what the site looks like today. You
3 can see the concrete asphalt, the empty site. And
4 pretty much everything's just gone.

5 One of the concerns that was expressed to me
6 was about the reference area, or the background area,
7 that we used. I know that Mr. Work is going to have
8 Mr. Dean from the EPA provide some additional
9 information on background.

10 What we do when we're looking for a reference,
11 or background, area is, we need to find a location that
12 is similar in age and construction to the site that
13 we're working on; and we need it to be in the same
14 environment that the site we're working on is. That is
15 because there is naturally occurring radioactive
16 material.

17 And in a shipyard environment, there are
18 different processes that are not man-made contaminants,
19 but it disturbs certain processes, or, you know, there's
20 fuel oil burning, or there's something adjacent from the
21 potassium in the bay, anything that could impact the
22 background area.

23 We -- When we go to do the background
24 readings, we take comparison readings with the same
25 instrumentation that we use for the surveys at the site.

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1 and a way to contact them, and I'll be happy to contact
2 them and see what they have to say.

3 MR. MASON: Okay.

4 MS. LOWMAN: Okay.

5 Building 322, that is the building as it once
6 was and is no longer on that picture. Y'all have
7 probably seen that picture several times, yeah, not to
8 mention the building.

9 The building was surveyed and removed. We
10 found no contamination. The debris was surveyed after
11 it -- the building was removed. We -- Again, we found
12 no contamination. So we released it, and that material
13 was disposed of off site. It was not disposed of on
14 Hunters Point Shipyard property.

15 Concrete pad that was under the building was
16 surveyed and removed. We found no contamination; and
17 again, those co- -- that concrete was surveyed again as
18 debris. We found no contamination. So it was released
19 and disposed of off site.

20 After that time, we performed a final status
21 survey, which is a MARSSIM, Multi-Agency Radiological
22 Survey and Site Investigation Manual, process to release
23 a former radiologically impacted site. We performed
24 this survey on the building footprint and on the
25 immediate surrounding area, which incorporated some

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1 Each instrument that we use, each serial number
2 instrument, has to have background readings taken with
3 it too. So it's there for comparison.

4 We do not just take one type of instrument, but
5 we take each one by serial number and do background
6 readings as well as the actual survey readings at the
7 site.

8 We also take comparison samples from the
9 background area and the investigation area that we're
10 working on so that we can do those comparisons.

11 Readings and sample results from the background
12 areas should be consistent with other reference areas.
13 We make sure that we don't have a hot spot in a
14 reference area, or it's kicked out. It isn't a
15 reference area anymore. It becomes an impacted site.
16 So that is very important.

17 Building 901 was used as the reference area for
18 the Building 322 final status survey, and that building
19 was a former HPS Officers' Club. We have no indication
20 that there is any radiological history associated with
21 that site.

22 It's kind of hard to see. It's up there on the
23 hill. Someone told me earlier today that this looked
24 like a picture of Pittsburg, but it really isn't. It's
25 very difficult to see, but it is in that photo. It's up

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<p>1 on the hill and kind of overlooks the 322 area in 2 Parcel A.</p> <p>3 Now, the site release criteria for the final 4 status survey. Site release criteria is based on either 5 risk a release -- risk-based release limit or a 6 dose-based release limit.</p> <p>7 EPA uses the risk-based release limit, which is 8 basically preliminary remediation goals that are based 9 on a 10-to-the-minus-6 risk or a 1-in-a-million risk.</p> <p>10 And the preliminary remediation goals for all 11 the different radionuclides are posted on an EPA Web 12 site. They have different risks for different 13 scenarios, such as residential, industrial worker, 14 agricultural. There's all types of different things.</p> <p>15 These are generally reported in pico curies per gram of 16 contamination or pico curies per liter of contamination.</p> <p>17 Now, the Nuclear Regulatory Commission does a 18 dose-based release, and that is based on what the 19 residual contamination left at a site after the 20 remediation, after the surveys, would equate to 21 25 millirem per year.</p> <p>22 Next slide, please.</p> <p>23 But in this instance, we're going to the 24 California Department of Health Services for the 25 dose-based release. They follow the dose-based release</p> <p style="text-align: right;">Page 33</p>	<p>1 However, it doesn't really impact on the final 2 release of the site 'cause that material is not there 3 any longer.</p> <p>4 The final status survey report is currently 5 under regulatory review. The Department of Health 6 Services has been working with us this week dedicatedly 7 to try to get this approved, and we are awaiting the 8 final clearance letter from them. When we get that 9 letter, it will be added as an addendum to the Parcel A 10 FOST.</p> <p>11 And as we stand right now, of the five 12 previously identified impacted sites, radiologically 13 impacted sites, on Parcel A, which would be 14 Building 816, Building 821, Building 813, Building 819, 15 and Building 322, Building 813 and 819 have been 16 reallocated to Parcel D. Building 816 and Building 821 17 has been free released previously.</p> <p>18 So when we get the letter from DHS releasing 19 this site, that will be the final radiological issue on 20 Parcel A.</p> <p>21 Okay. Current HPS radiological sites. Now 22 that we have the HRA finished, we've identified all the 23 impacted sites. We are continuing with the radiological 24 investigations.</p> <p>25 It's going to become very important that we</p> <p style="text-align: right;">Page 35</p>
<p>1 standard. However, they go with a lower number. They 2 won't give us an exact number, but pretty much it's 3 something under 15 millirem per year.</p> <p>4 Basically, what they tell us is: The lower, 5 the better. 25 millirem probably isn't going to pass.</p> <p>6 And to do that and meet their requirements, we do dose 7 assessments on any residual contamination or on the 8 final status survey results for that site.</p> <p>9 So we're looking for something at that site in 10 322 that we would equate to less than 15 millirem per 11 year, probably less than 5 millirem per year.</p> <p>12 The Class 1 area dose assessment, we found 13 0.812 millirem per year. The Class 2 area was 14 surrounding with a concrete and everything that's 15 slightly higher, and we had a dose assessment of 16 3.56 millirem per year. That is the residual dose at 17 322 after everything is removed. Obviously, there is -- 18 it is extremely low numbers there.</p> <p>19 The final status survey report was issued on 20 27 July 2004. There has -- It only contained the final 21 status survey results. It did not contain the results 22 of the building and concrete pad release surveys and 23 disposals. That has been requested to be added to the 24 report. We are doing that and will add that to the 25 report as an addendum.</p> <p style="text-align: right;">Page 34</p>	<p>1 post these sites with the known contamination. When we 2 go and do a survey of a site or a scoping survey of the 3 site, it's requirement for us to post those sites as 4 possible in some instances even restrict access to those 5 sites.</p> <p>6 We're going to be putting up signs. And for 7 instance, Building 253 where we have contamination 8 basically throughout the building we have found, we're 9 posting that. We are securing the entrances to that 10 building, and we are posting the building as a known 11 radiation area.</p> <p>12 In some instances, say, Building 366 where the 13 artists are still in the building, they have chosen 14 they -- they don't have a new place to go yet; but they 15 are staying and working in that building.</p> <p>16 The contamination is restricted to the floor 17 drains and to the ventilation system. In that instance, 18 we do not have to post the building or restrict access 19 to the building, but we will post the floor drains and 20 the ventilation system. This is to let anybody know who 21 comes in and is uninformed what we are dealing with and 22 the fact that there is potential radioactive 23 contamination there that they can be exposed to.</p> <p>24 So there are numerous -- numerous areas, excuse 25 me, on the base, and you'll see signs going up. The</p> <p style="text-align: right;">Page 36</p>

1 shoreline is one of them, Parcel A areas, 364, 211.
 2 There are sites where we -- 500 areas where we know we
 3 have contamination, and we're putting the signs up to
 4 let everybody know where that contamination is located.
 5 DR. SUMCHAI: Would you repeat what the
 6 building is that the artists are tenants in that --?
 7 MS. LOWMAN: 366.
 8 DR. SUMCHAI: 366. And you're saying that they
 9 have chosen to not leave or what?
 10 MS. LOWMAN: Well, there -- it's -- they
 11 actually don't want to leave the building is my
 12 understanding. But Keith better address that one more
 13 than me.
 14 MR. FORMAN: For Building 366?
 15 MS. LOWMAN: For 366 and the artists.
 16 MR. FORMAN: Yeah. If you remember, a number
 17 of months ago at the end of 2003, October-November time
 18 frame, I think, we released all the data we had on 366.
 19 We went with Mr. Terzian -- he's the manager for those
 20 buildings on the base and that lease on the base, I
 21 believe -- and explained the extreme low levels but
 22 explained also that because of what we have to do to
 23 get -- to remediate under these extremely low levels,
 24 the --
 25 Laurie is going to have to direct contractors

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1 to do things to the building that mean you can't -- you
 2 can't reside in it anymore; you can't work in it
 3 anymore, like do things that will affect the structural
 4 integrity of the roof and scavel out concrete and stuff
 5 like that.
 6 The request came along to how soon does the
 7 Navy need to do this?
 8 And originally we had said, "Well, if we have
 9 the funding, we want to try and do it as quickly as
 10 possible."
 11 And I believe the original deadline was set for
 12 January of this year. Here it is August, and the
 13 artists are still in the building. They'd like to stay
 14 there as long as is practicable before we have got to
 15 make some sort of move -- or they have got to make some
 16 sort of move.
 17 To do that, I believe the requirement that's
 18 been put on the Navy is not to just say, "Well, Artists,
 19 you got to move." We have got to find new buildings for
 20 them on the base and then do a document called a finding
 21 of suitability to lease, an FOSL; and then you have to
 22 push that through and get that approved, and then the
 23 artists will be able to relocate to buildings that --
 24 Dave Terzian's been working with the SFRA, and
 25 he's been working with the artists too, showing them

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1 options. And I believe they have toured other buildings
 2 and things like that.
 3 But as it stands now, they are still in
 4 Building 366; and if the Navy doesn't push the cleanup
 5 schedule, they are going to reside -- or they are going
 6 to work in 366 until they have to leave. And they're
 7 probably not going to leave until there's an approved
 8 FOSL.
 9 DR. SUMCHAI: Right. But you had done a
 10 cumulative low-base calculation on there, the risk; and
 11 are we, you know, reviewing that --
 12 MS. LOWMAN: The dose --
 13 DR. SUMCHAI: -- for --?
 14 MS. LOWMAN: -- assessment?
 15 DR. SUMCHAI: Yes.
 16 MS. LOWMAN: RASO did do a dose assessment, and
 17 that was presented to the artists by Commander Frago, and
 18 I believe.
 19 DR. SUMCHAI: Right. It --
 20 MS. LOWMAN: The risk is extremely low.
 21 DR. SUMCHAI: But it's increasing the longer
 22 they stay there. That's the point I'm making.
 23 MS. LOWMAN: The risk was based on a 50-year
 24 occupancy, I believe.
 25 DR. SUMCHAI: Okay.

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1 MS. LOWMAN: We took the most conservative
 2 factors that we could. So basically, no, they are not
 3 being exposed anymore, because the risk assessment took
 4 in a 50-year occupancy at the building, and we took it
 5 at, I believe, 365 days a year, 24 hours a day.
 6 So there -- basically, that contamination is in
 7 place and not moving. However, when we go to do the
 8 decontamination, we are going to have to take out the
 9 ventilation system. We're going to have to dig up
 10 pipings that are under the floor and dig out drains.
 11 It's going to be --
 12 There's contamination in the sanitary lines
 13 outside on Cochrane Street outside in front of the
 14 building. It will be very difficult for them to be in
 15 the building and us to do all the work that's involved.
 16 And so before we can continue with that work,
 17 they are going to have to find a new location, and the
 18 Navy's working with them on that.
 19 MS. OLIVA: Eight months ago when this all
 20 became an issue, I had requested that Mr. Forman
 21 consider tenting that building in -- when it is
 22 remediated because all of this building, 101, is upwind
 23 from that, and we face it. And I'm not sure if it was
 24 you or Pat that mentioned that it was too costly.
 25 I'm wondering if that can be resurrected and

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1 someone look into that.

2 MS. LOWMAN: Basically right now as it --

3 MR. FORMAN: It's not that it's costly. It's

4 just that we didn't --

5 MS. LOWMAN: It basically for Building 366, it

6 probably won't be necessary because the work will be

7 done inside the building.

8 So it's not work that will remove the roof

9 structure. It's not work that will take out the

10 building. It will just remove components inside of the

11 building. So I --

12 MS. OLIVA: Sewer.

13 MS. LOWMAN: The sewer in front, that is not on

14 the schedule right now. And we have to do further

15 investigation of all the sewers and storm drain lines.

16 And until we do those investigations and

17 determine the extent of the contamination -- these pipes

18 are 3 to 4 feet below surface right now. They are all

19 contained within there -- you know, it's hard to say

20 what we will do when we do that one. And I can't make a

21 commitment until we know the extent of the

22 contamination.

23 MS. OLIVA: Thank you. Just know that the wind

24 blows out here.

25 MS. LOWMAN: I know. It's blowing right now.

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1 Yes, it is.

2 Okay. The other thing that we're doing now

3 that we have the HRA done and we have identified the 91

4 impacted sites is to coordinate the other site work, the

5 non-rad work, with what is being done on the impacted

6 sites.

7 And this is -- created quite a work load for

8 myself and Matt, but it's still necessary. We're going

9 to have to review all the work plans prior to the start

10 of any work on an impacted site.

11 And this could be work for PCBs. This could be

12 work for methane gas extraction system that we did

13 previously. This could be any type of work putting in

14 groundwater monitoring wells. Anything that's going to

15 do work on an impacted site we'll review and make sure

16 that the proper controls are applied before that work

17 begins.

18 Now, if that means that we have to go out and

19 do a cursory survey of an area or we have to inform the

20 workers for -- the non-rad workers to make sure they are

21 aware of what they are doing or address any safety and

22 health issues, whatever it will be, we'll make sure that

23 the site -- rad site contractors are working on that.

24 MR. TOMPKINS: Laurie, in a previous dispute

25 between state and the federal on the cleanup of the

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1 radium dials, have you intervened and decided because

2 Dr. Con [phonetic] Chow was representing the state, and

3 they wanted to pull out the radium dials and first

4 wanted chemical contamination be addressed prior to the

5 radiological.

6 Has that been resolved, or have you

7 investigated that? And what would be the proper

8 methodology and steps --

9 MS. LOWMAN: Okay.

10 MR. TOMPKINS: -- for cleanup?

11 MS. LOWMAN: We are -- We'll come to that

12 later in the slides, but there is an area --

13 MR. TOMPKINS: Okay.

14 MS. LOWMAN: You want to wait?

15 MR. TOMPKINS: Yeah, I'll wait.

16 MS. LOWMAN: Okay. That'll work.

17 So the other thing we'll be doing with this is

18 screening the equipment with the non-rad work when they

19 are finished with the work at that site just to make

20 sure they haven't picked up any residual contamination.

21 Next slide, please.

22 Examples of where we're doing this work, for

23 instance, are the Building 819 sewer bypass. They were

24 running an above-ground sewer bypass because 819 is no

25 longer the pump station for the sanitary sewers leaving

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1 the base down Crisp Avenue.

2 They are going to stop using the above-ground

3 piping and go back to using -- they are having the

4 pumps, but they'll use the existing below-ground piping.

5 So we are providing support by screening the

6 piping, the above-ground piping, that they have been

7 using and talking to the workers and everything for the

8 below-ground piping that they are -- and the pumps they

9 are connecting.

10 Another one is there's soil from well borings

11 that were done near the landfill. They removed the

12 soil. We have it in a container. We're performing

13 radiological screening and a sampling of that soil

14 before it leaves for any type of disposal.

15 This is a good example of one that -- and the

16 reason we're doing this. There was a storm drain

17 adjacent to the Building 130 area, not adjacent to 130,

18 but the area of Building 130. It's about 20 feet long.

19 The storm drain line dumps into the bay and has

20 a catch basin where raw surface water runs off to the

21 catch basin and then goes down the 20-foot storm drain

22 line. They discovered that line when they were doing

23 some excavation, other types of excavation, in that

24 area.

25 We did do some sampling in the sediment in that

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1 line. There is elevated cesium levels in there, and we
 2 are doing additional radiological studies on that site.
 3 So this is a good example of why we're doing
 4 this work that -- you know, working with the non-rad
 5 contractors that are doing work at an impacted site.
 6 And the impacted site for this would have been the storm
 7 drain lines on HPS.
 8 The storm drain line does not connect to the
 9 storm drain system on the property. It only drains from
 10 this one catch basin that is, like, 20 feet away from
 11 the bay.
 12 Completed work that we finished recently:
 13 Building 322 site. Everybody knows about that one.
 14 That's the one in Parcel A.
 15 Building 819, dismantling, removal, and
 16 packaging. We have removed the pump system, and that
 17 has been surveyed. We found no contamination, and now
 18 we're going to be doing a final status survey of that
 19 building. But we have completed --
 20 And this one -- this map, I think we have the
 21 arrow pointing to the wrong building. I think it should
 22 be pointing to the smaller building. But that is
 23 Building 819 and then working there at the pump house.
 24 Another ongoing project is Building 253. I'm
 25 sure everybody knows where this building is. It's

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1 good point in your presentation to take a break or --
 2 MS. LOWMAN: Yeah.
 3 MR. SURBER: -- or --
 4 MS. LOWMAN: You want to do a break, or you
 5 want to go on and ask -- take a break before
 6 questioning?
 7 MR. FORMAN: Well, we generally give the court
 8 reporter a break.
 9 MS. LOWMAN: Oh. I'm so sorry.
 10 THE REPORTER: Well, how much more do you
 11 think --?
 12 MR. FORMAN: A lot.
 13 MS. LOWMAN: I have ten more slides.
 14 THE REPORTER: Minutes.
 15 MR. FORMAN: That's a lot.
 16 MS. LOWMAN: That's a lot.
 17 MR. FORMAN: So we should take a break.
 18 MS. LOWMAN: Yeah, okay.
 19 MR. SURBER: Okay. We'll take that ten-minute
 20 break.
 21 (Recess 7:03 p.m. to 7:13 p.m.)
 22 MR. SURBER: Let's continue with the
 23 presentation. Thank you.
 24 MS. LOWMAN: Okay. Everybody's back?
 25 We're back to 253, and we're doing the

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1 pretty much a landmark for Hunters Point. You can see
 2 it -- I know you can see it from 101, and you sure can
 3 see it when you fly in. It's always --
 4 MR. CAMPBELL: It glows?
 5 MS. LOWMAN: Pardon?
 6 MR. CAMPBELL: It glows?
 7 MS. LOWMAN: It does. Kind of does, I guess --
 8 MR. CAMPBELL: Right.
 9 MS. LOWMAN: -- yeah.
 10 Okay. Next slide.
 11 We're doing the 253 characterization. We're
 12 trying to define the extent of contamination within the
 13 building and the type of contamination within the
 14 building.
 15 It does involve the removal of some
 16 contaminated areas to allow characterization to be
 17 completed, and one of those is: The flooring on the
 18 first floor, or the ground floor, of 253 is wooden
 19 blocks that stand on end.
 20 And they are just stacked together very
 21 tightly. That's a very common thing in shipyards. I'm
 22 not exactly sure why. Maybe it holds a lot of weight.
 23 I'm not exactly sure what they use that --
 24 MR. SURBER: Excuse me. We usually take a
 25 break about this time, and I didn't know if there was a

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1 characterization to define the extent of the
 2 contamination and the type of contamination that's in
 3 there, identify the various radionuclides that are
 4 involved.
 5 Well, as we talked about before, we're going to
 6 have to remove some equipment and the flooring, that
 7 type of thing, so that we can see if there's
 8 contamination under that.
 9 Any remaining equipment in the building,
 10 there's desks; there's chairs; there's odds and ends
 11 pieces of equipment; there's big work benches. We pull
 12 drawers out of the work benches, that type of thing,
 13 check them for contamination; and we're screening all of
 14 that.
 15 We're going to be checking the ventilation
 16 system, of course.
 17 And the piping in the building: If this is the
 18 site of the radium dial paint shop, we should be finding
 19 some radium levels in the piping, and those will be
 20 traipsed out to the street. This is our best candidate
 21 for the radium dial paint shop, although we have not
 22 found any actual documentation that says this is where
 23 it is.
 24 But we have found documentation relating to the
 25 discovery of boxes. I'm talking, like, 4- by 6-foot

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1 boxes full of radium dials and gauges there in those
 2 buildings, so -- in that building of various floors. So
 3 we're thinking that's why they were there.
 4 On the metal reef area and the metal slag area,
 5 they are on the shoreline in Parcel E. We're doing some
 6 characterization work to define the extent of the metal
 7 reef and metal slag area; and during that work, which is
 8 actually non-rad work, we are providing rad support
 9 because in the former shoreline surveys, we did discover
 10 radioactive anomalies in this area.
 11 So as they are doing corings and different
 12 things, we are doing sampling out of the corings to make
 13 sure that there is no rad material in the corings but in
 14 samples that are being sent off site for processing.
 15 The work plan for this area was approved by the
 16 regulators. Site work has started. And as I stated
 17 before, the radiological support is being provided, not
 18 only for the screening of the samples, but education of
 19 the workers, everything else associated with that.
 20 Pending projects include IR-02 Northwest and
 21 Central.
 22 Matt, do you want to play laser man?
 23 MR. SLACK: Sure. Got it?
 24 MS. LOWMAN: Matt can be the laser man.
 25 MR. SLACK: I hope I can figure out how it

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1 disposal area. That is an unofficial name. We have not
 2 found documentation of that, but we do know there's a
 3 concentration of radium and/or strontium deck markers,
 4 radium dials and gauges in that area.
 5 We will be doing an investigation, and that
 6 work plan for that investigation is being revised.
 7 RASO's reviewed it once and made comments, and it is
 8 being revised.
 9 Is that the one you were talking to me about --
 10 MR. TOMPKINS: Right, exactly.
 11 MS. LOWMAN: -- whether we were going to be
 12 looking at the CERCLA contaminants as well as --
 13 MR. TOMPKINS: Right.
 14 MS. LOWMAN: -- the rad contaminants?
 15 His argument was that to go in to deal with the
 16 radium, then you want to put the chemical contamination
 17 back in ground makes no sense 'cause once you go in, you
 18 dig it; you expose it. You expose it to oxygen,
 19 possible other chemical reactions taking place,
 20 exposure.
 21 MR. FORMAN: Right. And that's why it's being
 22 revised.
 23 MR. TOMPKINS: That's exactly the area because
 24 it was dispute that the Navy's position, they just want
 25 to go deal with the radiological factor and not deal

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1 works now. Over this --
 2 MS. VETROMILE: Here, over in this area right
 3 here.
 4 MR. FORMAN: Yeah, if you could, 'cause that
 5 map is too far for --
 6 MS. VETROMILE: Also, if you move just a little
 7 bit, Laurie.
 8 MR. SURBER: There's a map over here is what
 9 we're going to be closer --
 10 MS. LOWMAN: Maybe that would be better.
 11 MR. FORMAN: Maybe I could -- If he's going to
 12 use a laser on you, I'd rather have this used on me.
 13 (Simultaneous colloquy.)
 14 MS. LAURIE: If the board hits me, you are all
 15 my witnesses.
 16 Okay. IR-02 Northwest and Central, and it
 17 is --
 18 ATTENDEE: Other one is?
 19 MR. FORMAN: Think so? How's the glare factor
 20 on that?
 21 MR. TOMPKINS: It's okay.
 22 MS. LOWMAN: Got it?
 23 MR. FORMAN: Very good.
 24 MS. LOWMAN: Okay. This known area of radium
 25 dial disposal, some folks refer to it as the radium dial

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1 with the chemical contamination.
 2 It was the state's position that made no sense.
 3 Why not go in -- if you going to deal with it, do it
 4 correctly -- remove both contaminant chemical as well as
 5 the radiological? And that you need -- when you moving
 6 the soil, you're removing chemicals. So dispose of
 7 that, then deal with the radiological factor.
 8 The Navy only wanted to deal with at that time
 9 radiological and put the contamination back in the
 10 ground.
 11 Has that been resolved, and what is your
 12 position on that as well as RASO?
 13 MS. LOWMAN: Okay.
 14 MR. TOMPKINS: Thank you.
 15 MS. LOWMAN: RASO was equally concerned with
 16 the state. And one of the things we are doing is
 17 looking at that process again, and that's one of the
 18 reasons the work plan is being revised.
 19 This is a joint venture for RASO and Southwest
 20 Div., because we don't have control over the CERCLA
 21 contaminants unless it is radioactive mixed with CERCLA
 22 at which point it becomes mixed waste, and then it falls
 23 under my jurisdiction.
 24 So I am waiting for the revised -- yeah, just a
 25 second -- work plan to come back. I think everybody's

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1 retaking another look at the process, and we're seeing
2 what we're going to do from there.

3 For the rad, it is very detailed. You know,
4 we're pulling it out in 1-foot lifts. We've got
5 conveyor belts where we're doing the segregated gate
6 screening where the contaminated materials go over here;
7 the non-contaminated goes over there.

8 There's very detailed procedures for that and
9 for the PCB hot spot soil excavation where they're
10 taking those up to the PCB area also, and we're using
11 the same type of procedures for that.

12 So both of those work plans are back for
13 revision. We have made multiple comments, and the plans
14 for those are being reassessed, not necessarily for the
15 rad work, but for the other work associated with them.

16 Have another comment?

17 MR. TOMPKINS: You mentioned that -- and for
18 clarity, as you just -- 'cause you mentioned exactly
19 where I was going into -- as you go closer to the radium
20 dials, it would be, then, in terms, as you go down
21 closer to the actual dials itself, the possibility of
22 soil contamination.

23 So therefore, it would fall under your
24 jurisdiction, would it not?

25 MS. LOWMAN: Anytime -- Generally -- We'll
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1 that has to be handled separately from mixed-waste soils
2 and rad and the CERCLA together, and then you have the
3 other contaminants.

4 So segregating them all out and getting them
5 all profiled properly and disposed of properly is really
6 a very complicated process.

7 MR. TOMPKINS: Okay.

8 MS. LOWMAN: Okay. And that applies -- That
9 same -- We're using the same processes at the PCB hot
10 spots that we're using at Northwest and Central. So --
11 and PCB hot spots is in IR-02, like up in this area
12 [indicating] right above Northwest and Central.

13 So those work plans are somewhat tied together
14 that when we make comments on one, they affect the
15 other. And they're both being revised, and I'm not sure
16 when we're getting those back. But I'm on vacation next
17 week. They should take their time.

18 Building 146, that's one of our upcoming
19 projects. We are working on the work plan for that.
20 I've seen one work plan that's being revised. It sits
21 over -- right over there, right up here on Parcel B next
22 to IR-07 and 18.

23 You can go to the next slide.

24 It's being revised for a characterization
25 survey.

1 start with this: Generally, if you have a radium dial
2 or gauge that's buried in -- and I'm going to talk about
3 one, not a group of them, but one -- pretty much we take
4 1 foot of soil around that gauge as a general measure to
5 removing the residual contamination from that dial or
6 gauge.

7 With this being a bay fill area and with known
8 chemical metal contamination, it is probably going to
9 happen where that soil is going to contain some other
10 contaminant other than the radium. In that instance, it
11 falls under mixed waste, and that falls under my
12 program, LLRW program, and so that's taken out and
13 removed.

14 The areas that would fall under the CERCLA-only
15 program would be ones that do not have any rad and had
16 other types of contaminants in them, and we are checking
17 all that.

18 It's going to be a very involved process. It
19 will be a lot of sampling.

20 It will be a lot of detailed work to
21 distinguish because you can't use -- you know, you're
22 going to have rad waste streams, just radiological waste
23 streams. You're going to have devices by themselves
24 that have to be buried separate from just
25 rad-contaminated soil. You have rad-contaminated soil

1 We previously did a Class 3 MARSSIM survey in
2 there, which involved about 20 percent of the building.
3 However, after we did that survey, we determined in
4 doing the HRA that that building was used as a turn-in
5 point for radium dials and gauges.

6 The Navy had a radium removal program, they
7 called it. It started in the late '60s, went into the
8 '70s and even goes on today, which basically removes any
9 radium dial or gauge off any ship and replaces that with
10 a non-radium substitute. In most instances nowadays,
11 they don't even have radioactive material in the
12 self-illuminating gauges.

13 So that was -- after NRDL closed, that was the
14 turn-in point for the radium dials and gauges, and it
15 was also the turn-in point for any shipyard radioactive
16 waste. We found that out after we had done the Class 3
17 20 percent survey.

18 So we are going back to do a hundred percent
19 survey of the building, of the ventilation system, and
20 of the piping. That is one of our upcoming projects.

21 Right adjacent to that is IR-07 and 18, these
22 two fill areas over here. They have had a lot of
23 different rad surveys done, various ones, but never one
24 that covered the entire site, both sites.

25 So we are planning for a scoping survey of that

1 entire area, both 07 and 18. We're going to do
 2 100 percent of those sites, and we'll do the shoreline
 3 along that area right up here to the dry docks also in
 4 that work plan.
 5 That work plan, again, we have looked it. It's
 6 gone back for comment -- incorporation of comments,
 7 rather.
 8 Another one of our pending projects is the
 9 Phase V report. Now, Phase V was done in January 2002
 10 to January 2003. I have this huge stack of reports --
 11 some of them 4, 5 inches thick -- with all the data
 12 involved. They were different sites on Parcel B, C, and
 13 D.
 14 Because of the HRA work we were doing, we
 15 stopped the work on those reports so we could
 16 concentrate on getting the HRA out and identifying all
 17 the radiologically impacted sites. We felt that was
 18 much more important to get all that work done and those
 19 sites identified before we went to review these reports
 20 in case we had additional information that would impact
 21 the results of these reports.
 22 So RASO has the reports for Parcels B, C, and
 23 D.
 24 The reports for Parcel E work that was done,
 25 for instance, the survey of IR-1/21 in the landfill,

1 those reports have not been done yet. They are -- and
 2 we'll be issuing a contract to have those reports done.
 3 I have the data, but I do not have the reports.
 4 And once RASO reviews and approves those
 5 reports, then those will be forwarded to the regulators.
 6 If RASO finds a problem with the report, then the report
 7 goes back to the contractor, and we go back to the
 8 field; we go back to the building; we go back to the
 9 site wherever it is.
 10 So we take into consideration when we look at
 11 these the results of the HRA, and then we look to make
 12 sure the work we did in Phase V was appropriate.
 13 So this is going to be a big task. We're
 14 hoping to have them done within the next six to eight
 15 months.
 16 FY05. For the government, fiscal year runs
 17 1 October to 30 September for our money when George
 18 gives us our new budget, yeah, whenever that may be.
 19 Sometimes it's January before you get any money, but --
 20 MS. WRIGHT: George who?
 21 MS. LOWMAN: Okay. FY05 work that's planned so
 22 far -- we're hoping for this -- Phase V Parcel E
 23 reports. Those are the once we just talked about.
 24 We're going to try to complete some pending site work.
 25 We talked about Building 366. That's the one

1 with the artists that we just talked about before, right
 2 there, I believe [indicating]. We're close. We are on
 3 the right street. Okay. That is contingent upon
 4 finding a new home for the artists. So that's all tied
 5 in together. But hopefully, we'll get that done next
 6 year.
 7 Building 364, which is down the street from
 8 366, we have done extensive remediation in that building
 9 and outside of that building. The liquid waste -- The
 10 radioactive waste tanks were behind that building, and
 11 we have removed those. We have removed all types of
 12 piping and everything inside the building.
 13 And we still have remediation to do. We
 14 thought we were finished, and we're not. We still have
 15 one room with contamination. So we've got to go back in
 16 there and then do the final status survey.
 17 Building 211, which is --
 18 Can you find that, Matt?
 19 MR. SLACK: I'm blocked at the moment.
 20 MS. LOWMAN: Right there [indicating]. Okay.
 21 There we go.
 22 We have some thorium contamination in there on
 23 the ground floor of that building. It's not a very
 24 large area. The rest of the building has been surveyed,
 25 and we found no additional contamination, but we need to

1 do the remediation and the final status survey of that
 2 area.
 3 Building 253. Hopefully, we'll finish our
 4 characterization, and that will -- we'll jump right into
 5 remediation work on that building and, subsequent to
 6 that, a final status survey.
 7 We will also be doing -- hopefully, we get the
 8 work plan approved -- the IR-02 Northwest and Central
 9 remediation, the PCB hot spot remediation.
 10 IR-04, the scrap yard [indicating].
 11 MR. SLACK: Am I about right?
 12 MS. LOWMAN: No.
 13 MS. VETROMILE: Higher, higher.
 14 MS. LOWMAN: It's over in there [indicating] by
 15 810.
 16 We have done surveys and remediation in that
 17 facility or that area. Every time we have done it we
 18 have found more contamination on the boundary of the
 19 area and every time we go out by 10 meters in all
 20 direction. So it's time for us to do that again.
 21 We found additional charac- -- So we do
 22 additional characterization remediation and hopefully
 23 final status surveys in that area.
 24 New scoping surveys. These would be areas that
 25 we have not surveyed before and we would be going in for

1 the first time to do scoping surveys. They would
2 depend -- The extent of those would depend on the
3 information in the HRA and what we needed to do.

4 The areas include 203 and 521. Those are the
5 power plants. You all know about them burning the
6 plutonium-contaminated fuel when we brought the
7 Crossroads ships back. And we have also found radium
8 dials on the boilers inside the building, so we need to
9 remove those also.

10 Building 408 is over here [indicating], like,
11 right there, I think, Parcel D. It's the smelter. It
12 not only is full of firebrick, which is going to give
13 you elevated radiation levels from naturally occurring
14 materials in the firebrick, but it is very common with
15 the Navy in days past to just put radium dials and
16 gauges on whatever metal and put them in the smelter.

17 And that's probably why we have the
18 contamination in the metal slag and metal reef area is
19 because they've removed the material from the smelter
20 and took it to those areas. So we have to do the
21 smelter and see if there's any residual in there.

22 Building 813, it's one of the ones that was
23 reallocated from Parcel A to Parcel D. That had leaking
24 strontium-90 spores in that building. It's quite a
25 large building.

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1 Building 140 and the discharge tunnel. That's
2 the Dry Dock 3 drain system over in Parcel C, and that
3 is on our list for FY05. That is from the Operation
4 Crossroads list. Decontamination, again, that's our
5 concern with that dry dock and the discharge tunnel.

6 Building 142 is another NRDL site that's up
7 there in the corner. We're going to be doing some
8 surveys in that building also.

9 That's it. Okay. I want to hand the
10 microphone.

11 ATTENDEE: Yeah.

12 MR. SURBER: Why don't we begin here and
13 then . . . ?

14 MS. OLIVA: Thank you, Laurie. Since you are
15 in the process of doing these scoping surveys and the
16 characterization surveys and you're in the process of
17 identifying contaminants and you are printing up the
18 HRA, may I make a proposal that this information be
19 included as an addendum and not as a separate report to
20 the HRA?

21 MS. LOWMAN: Which information did you want?

22 MS. OLIVA: The information that you haven't
23 discovered yet, the fact that you're doing new scoping
24 surveys and you're coming up with new contaminations and
25 the HRA, everything.

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1 We have done a walk-through and found some
2 radiation warning signs up on one of the floors. They
3 were actually in German, for the most part.
4 Strahlungsgefahr, you will be happy to know, means
5 danger radiation. So in case you ever wondered, say it
6 in German, you now know.

7 So we're not sure why they're there. We've got
8 to do some more investigation in that building.

9 Dry Docks 5 and 7. They are up here at the
10 top. We did Dry Dock 6, but we didn't do 5 and 7. We
11 are not sure exactly where the Crossroads ships went.
12 We knew they went in 6, and we really feel it's
13 important to get all of the dry docks and survey them
14 properly.

15 We'll also be doing the pumps in the dry docks,
16 as soon as we figure out exactly how to do that, that
17 would have pumped the water out of the dry docks. And
18 when we do those, we do do the sediment in the bottom of
19 the dry docks too. So some sampling there.

20 Building 114 site, which is basically down in
21 here, it's a Parcel B site. It's a former NRDL
22 building. The exact use is not known. But we're going
23 to go to that site. It's not there anymore. It was
24 torn down. We're going to check that out and make sure
25 there's no problem.

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1 I realize it's a time --

2 MS. RINES: Snapshot.

3 MS. LOZOS: A snapshot.

4 MS. OLIVA: -- a snapshot; but I think as a
5 document itself, the information that you discovered,
6 just as you shared that information with us now, should
7 be included as an addendum to that document so it is one
8 piece.

9 MS. LOWMAN: That's not necess- -- That's a
10 good idea, actually. The document -- The documents for
11 the individual sites will be the site-specific reports
12 about the investigation.

13 However, it would be reasonable at some point
14 in time when we have done, say, a parcel or we have done
15 a certain area that we do an addendum, add these -- the
16 results of these surveys to the HRA. That's a good
17 idea.

18 When we have an ongoing active base and we do
19 an HRA, we update it periodically, and that would be the
20 same type of thing we could do in this instance.
21 Because we have so many investigations yet to do, I
22 think that's a good idea.

23 MR. SURBER: Okay. Good. So that will be done
24 with two people.

25 MS. LOWMAN: It will take time, yeah.

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1 DR. SUMCHAI: I have three issues that I want
2 to address that I think are very important, and I --
3 MR. SURBER: Do we -- do we have an agreement
4 to do one issue at a time per speaker? No? I was told
5 we did.
6 DR. SUMCHAI: Okay. There is a incredible
7 amount of information here. There is an enormous amount
8 of information here. I'm probably one of the more
9 expert RAB members, you know, with regard to fund of
10 knowledge of this information --
11 MR. SURBER: Please proceed.
12 DR. SUMCHAI: Okay.
13 So the three issues that I wanted to address:
14 One, I wanted to thank Michael Work from the
15 EPA for addressing some concerns that I had. Clifton
16 Smith and I had an opportunity to go through the 322
17 gamma-spec survey results, and I wanted to clarify one
18 that the use of Building 901 as a reference raised some
19 red flags for me because if you've read the response to
20 comments, there were concerns that I raised about
21 sandblast material in SI 19, Building 901, the Officer's
22 Club, was one of the areas where sand blast had been
23 used as fill into median divide.
24 So I, you know, to begin with had some concerns
25 about using this as a reference site if there was any

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1 issue about whether or not it was radiologically
2 impacted.
3 I -- you know, your comments satisfied me on
4 the overall, although the amount of radiological
5 assessment that was done at SI 19 for this sandblast I
6 don't think was satisfactory enough to, you know,
7 totally resolve, you know, the issue.
8 But, you know, I did want to just make that
9 point, that if you wanted to use a reference that this
10 building -- I think that, you know, there's just some
11 historical information that would lend a question as to
12 whether or not it could be considered not impacted, you
13 know, just based on the IR report.
14 Okay. The other issues, you know, that we had
15 raised was, you know, the presence of some net activity
16 with man-made radionuclides at Building 901, europium
17 152, 154; and you had explained that, you know, there
18 was some uncertainty with regard to, you know, the
19 activity that was detected here.
20 And my concern is that I didn't understand why
21 there would be any activity detected for man-made, you
22 know, radionuclides at a reference building, you know.
23 So that still, like, is a concern, you know, for me.

24 Do you want to address that?

25 MS. LOWMAN: Do you have one more?

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1 DR. SUMCHAI: Well, I have two big issues with
2 regard to the landfill and, you know --3 MS. LOWMAN: Okay. Let me do this one. Do
4 them one at a time.

5 MR. FORMAN: Okay.

6 MS. LOWMAN: I did look into Building 901 and
7 the sandblast grit issue that was in the planters, I
8 believe it is, outside of the building as a
9 decorative-type soil; and it was completely removed from
10 that site.11 The areas that we used in 901, some of them
12 were inside of the building, which would not have had
13 anything to do with the sandblast grit. The others were
14 asphalt and concrete areas outside of the building.15 So we did not feel that there's any reason,
16 since the sandblast grit was completely removed from the
17 site previously, to worry about that. And it's like the
18 IR-59 investigation of Parcel A, that they are too all
19 the sandblast grit was removed.20 As far as the europium 152 and 154 and its
21 presence on the gamma-spectroscopy reports, the
22 uncertainties that are on -- listed on the report are
23 uncertainties or percentages of uncertainties that the
24 gamma-spectroscopy system identifies using mathematical
25 equations.

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1 And what it is doing is looking for the energy
2 peaks in the spectrum of energy exhibited by the sample
3 material. And then they check those against a library
4 of information. And the uncertainty is the percentage
5 of accuracy for those peaks. And the instance of 152
6 and 154 are in the library. So it goes and looks for
7 those peaks.8 The uncertainties in the gamma-spectroscopy
9 report are such that even though it looks like there
10 might be slightly elevated levels of europium 152 and
11 154, the uncertainties are so high that it is not there.
12 It has to do with how you read the report; and you look
13 at the uncertainties versus the MDA and the net
14 activity, and you make the comparison.15 So we have studied those, and I see the -- I
16 went through the gamma-spectroscopy reports myself in
17 detail and looked at each and every one just to make
18 sure that there was nothing there that I had missed or
19 someone else had missed previously, you know, in
20 reviewing the report. But there just isn't anything
21 there. I just can't identify anything with the
22 uncertainties that would indicate its presence.23 DR. SUMCHAI: I think that because the issues
24 related to the landfill and the dry dock are so big,
25 maybe I'll just leave those for my subcommittee report.

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1 MR. SURBER: Thank you.
 2 MS. LOWMAN: Did --?
 3 MR. SURBER: Other comments or questions?
 4 MR. TOMPKINS: Yes.
 5 Laurie, on the PCB hot spot radiological
 6 support, we became aware of it about seven, eight years
 7 ago about the elevated rate of breast cancer in
 8 Bayview-Hunters Point when I was working with HEAP, and
 9 we came up with first study on the extremely high breast
 10 cancer rate for African-American women.
 11 The issue of PCBs came up to our attention on
 12 the Shipyard, and we were discussing at that time with
 13 other members of the City, U.C., and who have been
 14 consulting with the Navy that they were under the
 15 assumption we found it ridiculous that there was no
 16 escape from this building of PCBs into the air.
 17 In terms of your cleanup, are you going to do
 18 air monitoring on that, given the impact of the elevated
 19 rate of breast cancer in Bayview-Hunters Point? Will
 20 there be air monitoring on the cleanup on that?
 21 Because Dr. Pollard and myself did independent
 22 air studies of VOCs, and we didn't catch it at that
 23 point, but we did get elevated benzene on -- next to
 24 Parcel A. Given EPA's risk factor, it was 1 in 10,000
 25 rather than 1 in a million.

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1 MR. FORMAN: Yeah. I can't say anything till
 2 the work plan and the action memo come out.
 3 MS. LOWMAN: Yeah. We're really kind of --
 4 I'm -- you know, I can't really give you an answer about
 5 the air monitoring. I can try to make sure that it is
 6 addressed, but --
 7 MR. TOMPKINS: Thank you. That is expressed
 8 and concerned for prevention.
 9 MS. LOWMAN: Okay.
 10 MR. TOMPKINS: And one other question.
 11 MS. PIERCE: Short.
 12 MR. TOMPKINS: Short, to the point.
 13 MS. LOWMAN: Okay.
 14 MR. TOMPKINS: Earlier in earlier studies --
 15 oh, first, in the sewer piece, in the previous team that
 16 came up here that did -- they did no scoping of the
 17 sewers for radiological. They said, "Oh, everything's
 18 by the drain." And they did a presentation at the RAB
 19 board, and I find it very -- it wasn't you.
 20 MS. LOWMAN: Okay.
 21 MR. TOMPKINS: It was another team.
 22 MS. LOWMAN: Okay.
 23 MR. TOMPKINS: But dealing with the fact that
 24 it was practice of the Navy to pour some of the nuclear
 25 waste down the drains, I find it being, what I use,

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1 So we are concerned about the possibility given
 2 that the -- when we got the report, the contamination
 3 ratio was above EPA at 3- -- 35,000 -- 38,500 times
 4 higher than what EPA said would be safe. So that this
 5 is a very hot spot from the information we have.
 6 What do you have and how will you address that
 7 in the cleanup?
 8 And I have a second question.
 9 Death is a complicated matter.
 10 MS. LOWMAN: This is not really my area of
 11 expertise. PCBs and I are not bonding.
 12 MR. TOMPKINS: Unfortunately, they bonded with
 13 some of the women out here.
 14 MS. LOWMAN: Yeah, unfortunately, they bonded
 15 with someone else.
 16 For the rad issues, we always do air monitoring
 17 anytime we do rad work at the site.
 18 I have looked at the proposed work plan. I
 19 really can't remember exactly, 'cause I -- I mainly
 20 focus on the radiological aspects of the work plan. I
 21 do go through the others to make sure they don't impact
 22 the radiological.
 23 But I would think that either Keith can answer
 24 this, or we can wait and address that when we look at
 25 the new work plan.

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1 "B.S.," bad science, not to go scope the sewage system
 2 out.
 3 Would you or your team look into this matter?
 4 Because people want to use this sewage system, and
 5 everybody has homes, and you know that sometimes your
 6 lines -- you don't need a Ph.D. to understand that your
 7 line gets plugged up at the street, and we're talking
 8 over a 20-year period of accumulation and the
 9 possibilities.
 10 I think it behooves the Navy to deal with
 11 scoping the entire sewage system on the base rather than
 12 bypassing it.
 13 MS. LOWMAN: The HRA lists the entire sewer
 14 system, except for Parcel A, the upper part of Parcel A.
 15 And the storm drain system and the septic fields, they
 16 are around the 707 triangle that you can't really see.
 17 It's over here. They are septic systems in the former
 18 location of the 500 buildings, which are down in here
 19 [indicating] that were used. We have those all as
 20 impacted areas.
 21 We have discovered radiological contamination
 22 in the sewer and storm drain lines on Cochrane Street
 23 and between 364 and 365.
 24 We're going to be doing investigations around
 25 253; and at some point, we will do investigations of all

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1 the systems, the outfalls for the systems.
 2 That's why we did Building 819. That is the
 3 sewer pump house for the sanitary lines leaving the
 4 base. We wanted to make sure there was no residual
 5 contamination in there.
 6 So we are addressing everything with every
 7 site; and, you know, we -- the new final HRA that's
 8 coming out shows every outfall. It shows the storm and
 9 sewer drain lines for every parcel. Instead of one map
 10 showing the entire site, we broke it out parcel by
 11 parcel and blew it up so you could see it better. Yes,
 12 we do plan to do surveys and address all of that.
 13 MR. SURBER: Thank you.
 14 Mr. Campbell has a question.
 15 MR. CAMPBELL: Hi, Laurie.
 16 MS. LOWMAN: Hi.
 17 MR. CAMPBELL: San Bruno, the records indicate
 18 that there was a number of records destroyed having to
 19 do with NRDL. Hundreds, if not thousands, of computer
 20 records. The Senate Subcommittee on Human Radiation
 21 Experiments also pointed out a number of NRDL records
 22 were destroyed.
 23 We know primarily the old wooden laboratories
 24 did not leave the base. So that meant they either went
 25 into Parcel B landfill or Parcel E. Given that

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1 information -- and we also heard of medical waste,
 2 radiological waste, from the various universities being
 3 dumped at Hunters Point, more than likely in Parcel E
 4 landfill.
 5 Parcel E landfill is subject to
 6 liquefaction -- liquefaction. Excuse me. And there's
 7 a November 17th, 2000, report that identifies most of
 8 the low areas of the Shipyard has liquefaction zones.
 9 Based on the experience that we had in San Francisco,
 10 there was an ignition in the Marina District, as much of
 11 the Marina burned.
 12 Now, we know that we have some of the
 13 chemicals -- I shouldn't say chemicals, but gases in the
 14 landfill that could potentially cause ignition and
 15 because we have had ignition before.
 16 The landfill we know, according to the report
 17 that I have seen, got up to a 5-foot lateral movement.
 18 What happens? How do we address that as far as a
 19 community? And what are the knowns and unknowns?
 20 We have got Daniel Meer from the EPA who said
 21 that "landfill may be too dangerous to be removed,"
 22 quote, unquote. So, Laurie?
 23 MS. LOWMAN: We are talking about the
 24 radiological aspects of the landfill or what could be in
 25 the landfill?

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1 MR. CAMPBELL: The radiological aspects given
 2 high methane factors with volatile organic compounds.
 3 And if you have an ignition or if you have a landfill
 4 acting like a viscous liquid with unknowns,
 5 radiological, you know, I'm sure that we can find some
 6 dumping records somehow. I don't know if you looked at
 7 the universities for the dumping records.
 8 MS. LOWMAN: I have some records on what was
 9 brought to NRDL for disposal. The records that I
 10 have -- unfortunately, when NR -- Maybe I should go
 11 back.
 12 When NRDL closed, it was only given a six-month
 13 window to close. They received notification at the end
 14 of April, and they were totally gone by December 1st
 15 except for a small team of people. And my understanding
 16 from interviews, from looking at various documents, that
 17 they just took everything and burned it, shredded it,
 18 just got rid of it. So we have gone through and tried
 19 to find everything we can.
 20 The documents that I have -- they describe the
 21 radioactive waste disposal in fair amount of detail, and
 22 it was the ocean dumping disposal that they did --
 23 actually came from a former employee of NRDL who pulled
 24 them out of the trash bin as he was going out the gate,
 25 and he gave me copies of these five reports.

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1 I have tried and tried to find more of these
 2 health physics annual reports that give blow by blow who
 3 put waste onto the base and where it went. And I have
 4 only found these five, and that's because this gentleman
 5 gave me copies of them.
 6 We know that they brought waste from Lawrence
 7 Livermore. They brought waste from Berkeley. They
 8 brought waste from McClellan Air Force Base. They
 9 brought waste from commercial companies in.
 10 They packaged it at the 707 triangle. They
 11 took it down to the gun mole pier. They loaded it on
 12 barges and took it out and disposed of it at sea.
 13 They had an actual AEC --
 14 MR. SURBER: Make the answers brief as well.
 15 MS. LOWMAN: Okay. I'm trying to answer the
 16 que- -- thank you.
 17 So as far as where the buildings went when they
 18 were demolished, I have not found those records. It is
 19 reasonable to assume that there is building debris in
 20 the landfills, and it may be these buildings, but I
 21 don't know for sure.
 22 If there were to be another fire, it would be
 23 the same recommendation I always have, and that would be
 24 that you would do radiological and air monitoring if
 25 another fire occurs.

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1 As far as a liquefaction -- did I say that
 2 right? -- I don't know exactly what I would recommend.
 3 I would have to probably look at the situation at the
 4 time and look at what we're doing for all the
 5 liquefaction problem at that time and address those
 6 radiological conditions then. I'm sure there would be
 7 monitoring involved and various actions. I'm just not
 8 sure what that would be.

9 MR. SURBER: It's ten minutes to 8:00 and we
 10 have a fair bit of agenda left. Do people want to
 11 continue this discussion and put over the other agenda,
 12 or do you -- we want to stop here for other questions
 13 and comments?

14 MS. PIERCE: We have to vote on the bylaws.

15 MR. SURBER: Well, we may not get to the bylaws
 16 if we continue this discussion this evening. So I need
 17 a sense of the group.

18 MR. TOMPKINS: Possibility to extend the
 19 meeting so we can cover business tonight.

20 MR. SURBER: Is there a motion to extend the
 21 time of the meeting?

22 MR. TOMPKINS: I'll put it on the floor.

23 MR. SURBER: Is there a second?

24 MS. RINES: Second.

25 MR. SURBER: To what time?

1 find anything.

2 There were two areas of sandblast grit that
 3 were totally removed. There is no reason to think those
 4 would have impacted the storm drains or the sewer lines.

5 MS. OLIVA: What about where Building 101 is?

6 MS. LOWMAN: That's not Parcel A. That's down
 7 here.

8 MS. OLIVA: Building 101 --

9 MR. SURBER: The question is whether we are in
 10 Parcel A or not.

11 MS. LOWMAN: Is 101 in Parcel A?

12 MS. OLIVA: Yes, yes.

13 MS. VETROMILE: Yeah.

14 MS. LOWMAN: This is 101.

15 MS. OLIVA: Right. This is where you are.

16 MS. VETROMILE: Yeah.

17 MS. LOWMAN: Okay, it is in Parcel A.

18 MS. VETROMILE: It's not upland.

19 MS. LOWMAN: It's not upland?

20 MS. VETROMILE: No.

21 MS. LOWMAN: Okay.

22 MS. OLIVA: It's close to Dry Dock 4.

23 MR. FORMAN: Dry Dock 4 is impacted, but that
 24 has no --

25 MS. LOWMAN: Dry Dock 4 is impacted.

1 MS. RINES: 8:15.

2 MR. SURBER: 8:15?

3 All in favor?

4 THE BOARD: Aye.

5 MR. SURBER: Opposed?

6 (Ms. Bushnell raises her hand.)

7 MR. SURBER: Abstentions? Okay. Thank you.
 8 The motion carries. So people do want to continue the
 9 question and answer of this topic, so we still may get
 10 beyond 8:15. We'll see how the agenda -- I understand
 11 that there'll be some discussion of the bylaws.

12 Yes, sir.

13 MR. MANUEL: She was first and then I go after
 14 her.

15 MR. SURBER: Shall we continue for five more
 16 minutes with this and then move on?

17 MS. RINES: Yes.

18 MR. SURBER: Okay. If we could keep questions
 19 and answers short, that would help.

20 MS. OLIVA: Laurie, could you tell me your
 21 reasoning why you're not conducting any surveys on the
 22 storm drains and the sewers in Parcel A?

23 MS. LOWMAN: The upland portion of Parcel A,
 24 which would be this area up here [indicating], I can
 25 find no radiological history on. I absolutely cannot

1 MR. FORMAN: -- that has no connection to
 2 Building 101.

3 MS. OLIVA: So would there be any reasoning why
 4 you would consider surveying the storm drains and the
 5 sewers in Parcel A?

6 MS. LOWMAN: I have no radiological history for
 7 101 either. We pretty much have studied as much as we
 8 can on Parcel A and not found any additional
 9 radiological sites.

10 MS. OLIVA: Not in the storm --

11 MS. LOWMAN: The streets that come down, Spear
 12 Avenue, Crisp Avenue, those are all in -- not in
 13 Parcel A. They are in the other. Now, we would
 14 investigate those lines.

15 MS. OLIVA: I would truly appreciate if you
 16 consider investigating the lines -- the sewer lines
 17 close to Building 101.

18 MS. LOWMAN: Close to Building 101. You would
 19 like to make that an action item?

20 MS. OLIVA: I would like to make that an action
 21 item.

22 MR. SURBER: So there -- Would you state
 23 your --

24 Are you wishing to make a motion or an action
 25 item? I'm not quite sure.

1 MS. RINES: Just make it an action item.
 2 MS. OLIVA: I would like to make it an action
 3 item that you consider surveying the storm drains --
 4 MR. SURBER: Consider or surveying?
 5 MS. OLIVA: Survey the storm drains and the
 6 sewers in the vicinity of Building 101.
 7 MR. SURBER: And who would be responsible for
 8 that?
 9 MR. TOMPKINS: That's the Navy.
 10 MS. LOWMAN: That would be me.
 11 MR. SURBER: Is that responsibility you're
 12 accepting as an action item for this group?
 13 MS. LOWMAN: Yeah.
 14 MR. SURBER: So done.
 15 MS. OLIVA: Thank you.
 16 MS. LOWMAN: Okay.
 17 MR. SURBER: Thank you.
 18 Question behind.
 19 MR. MANUEL: Yes. There's a couple of
 20 statements I'd like to make and then a question for
 21 Laurie.
 22 MR. SURBER: Can you make them brief?
 23 MR. MANUEL: Very brief.
 24 First off, I'd like to state that being a great
 25 deal of San Francisco is landfill, you have methane

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1 pretty much everywhere and people -- and either going to
 2 decompose and presents methane gas.
 3 Next thing is that national studies that -- all
 4 over this country that basically show that -- and
 5 particularly minority areas but in many other areas as
 6 well -- when you have above-ground power lines, they
 7 have high incidences of cancer because of EMFs and other
 8 things that are all in the air.
 9 My question to Laurie is -- is that is there
 10 some type of information that you have --? I'm sure you
 11 have Rosy the Riveter over here, and you have other
 12 women and men that were here. Is there any high
 13 incidences of breast cancer that was on this base that
 14 would be either different than what's outside the base
 15 in the normal -- other parts of San Francisco or higher
 16 than the national average of some sort? Because men can
 17 get breast cancer just as well as women.
 18 So do you have any high incidences that --?
 19 This issue has come up more than once. I just want to
 20 know if you have anything that shows --
 21 MR. SURBER: I think you've asked the question.
 22 Excuse me for being rude, but I --
 23 MR. MANUEL: That's okay.
 24 MR. SURBER: -- I am anxious. We need to move
 25 forward.

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1 MS. LOWMAN: We have not done a health study of
 2 the history of the workers at Hunters Point. Most of
 3 the interviewees we spoke with are older folks. There
 4 were some in their eighties. Some were in very good
 5 health. Some were in poor health. It wasn't in my
 6 purview to try to do that, and I have not -- I don't
 7 have the information on that.
 8 MR. MANUEL: Can you compile something?
 9 MS. LOWMAN: It would be real difficult for me
 10 with the charter of the HRA to do that. That is
 11 something that you might want to address with Southwest
 12 Div.
 13 MR. MANUEL: Okay. He wants to move on.
 14 MR. SURBER: Can we thank Miss Lowman and move
 15 on?
 16 MS. ATTENDEE: Yes, we can.
 17 (Applause.)
 18 MR. SURBER: And thank you.
 19 Moving on to the agenda, I understand there are
 20 four subcommittees, but I also understand the Bylaws
 21 Committee wants a vote on the bylaws. So why don't we
 22 move to the Bylaws Committee? Who's the spokesperson
 23 for . . . ?
 24 MS. HUNTER: Melita.
 25 MS. RINES: Okay. Hopefully, everybody got the

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1 bylaws; everybody read them.
 2 MR. SURBER: Everywhere, I'm sure.
 3 MS. RINES: We need to vote on this today.
 4 This is it. This is the only time we can change it.
 5 And just so you know, if it is adopted, come
 6 September's RAB meeting, everyone's absence, prior
 7 absences, will be wiped clean.
 8 So as of September 2004, no one has an absence
 9 unless you don't show up to that meeting. Okay?
 10 MR. SURBER: Would you care to make a motion?
 11 MS. RINES: I just want to make sure that part
 12 of it you get that. Okay.
 13 Yes.
 14 MS. WRIGHT: I still need you to explain. I
 15 still don't understand.
 16 MS. RINES: What -- Changing what?
 17 MR. SURBER: What's the question?
 18 MS. RINES: Okay. The attendance policy is:
 19 You can't have three missed absences in a 12-month
 20 period. A 12-month period starts from the month of the
 21 current RAB, 12 -- 11 months back.
 22 MS. WRIGHT: I thought it was four.
 23 MS. RINES: I'm sorry. I'm sorry. I'm sorry.
 24 I'm sorry. Four. Sorry.
 25 MS. WRIGHT: Four, okay.

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1 MS. RINES: Four absences, okay.
 2 MS. WRIGHT: So the 12-month period starts
 3 when?
 4 MS. RINES: The month of the current RAB
 5 backwards.
 6 MS. WRIGHT: Month of the -- That's what I
 7 don't understand.
 8 MR. SURBER: But it doesn't start counting --
 9 it doesn't start counting till September '04, so
 10 everybody --
 11 MS. RINES: Correct. So September '04 there
 12 are no absences.
 13 MS. WRIGHT: Right.
 14 MS. RINES: And it goes to -- from September
 15 '03 to September '04.
 16 MR. SURBER: So if somebody misses four
 17 absences after this coming September --
 18 MS. RINES: The only way we can count 12 -- we
 19 can't count 12 ahead into the future -- we have to count
 20 12 behind us.
 21 MR. MANUEL: Just kind of a fiscal year kind of
 22 a thing.
 23 MR. SURBER: Right.
 24 MS. WRIGHT: But if you're counting
 25 backwards --

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1 MR. MANUEL: Forward to September.
 2 MS. WRIGHT: She said backwards, '03 to '04
 3 and --
 4 MS. RINES: From '04 to '03. This month is
 5 August.
 6 MS. WRIGHT: Yeah.
 7 MS. RINES: From August of '03 till August of
 8 this, if you had missed four absences, you would have
 9 been removed. Next month is September. From September
 10 you had the --
 11 MS. WRIGHT: '04 to '05.
 12 MS. RINES: No. We can't do it ahead. From
 13 '03 to '04.
 14 MR. SURBER: Yes, but you're forgiving --
 15 you're forgiving '03 to '04 absences, are you not?
 16 MS. RINES: Correct.
 17 MR. SURBER: So you're really not going to
 18 start counting until September and then have your four
 19 until the end of the year; is that correct?
 20 MS. RINES: That's correct, yes.
 21 MR. SURBER: Okay.
 22 MR. TOMPKINS: But is there such a thing --?
 23 MR. SURBER: So it is in the future that you're
 24 counting absences.
 25 MS. WRIGHT: No, I don't understand.

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1 MR. MANUEL: Well, I understand what he means.
 2 MS. WRIGHT: I've never understood it.
 3 MS. PIERCE: Let me try.
 4 MS. WRIGHT: Okay.
 5 MS. PIERCE: So next month -- next month nobody
 6 has any absences.
 7 MS. WRIGHT: Right, I understand that.
 8 MS. PIERCE: If you don't make next month's
 9 meeting, you have one absence, okay. Then you make the
 10 next two months meetings. You still have one absence.
 11 Then you miss two more. You're up to now three. Then
 12 you don't miss any more until ne- -- the fi- -- the --
 13 October of '05.
 14 MS. WRIGHT: That's what --
 15 MS. HUNTER: Then you have -- you still have
 16 three because that first one fell off because it's now
 17 the 13th month. So that first one fell off, but you're
 18 still carrying those three.
 19 MS. WRIGHT: Two.
 20 MR. SURBER: Actually -- actually two,
 21 according to your example.
 22 MS. ATTENDEE: Right.
 23 MR. RAB MEMBER: Yeah.
 24 MS. PIERCE: As long as she gets two more, and
 25 then in the 13th month she did another one.

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1 MS. RINES: I think it's actually -- it sounds
 2 more complicated than it actually is. It's a moving
 3 target. It's the only way we can do it. The 12-month
 4 period has to follow the month of the RAB.
 5 MR. FORMAN: Right. So for any given -- any
 6 given 12-month span, for any 12 months, you can miss
 7 three RAB meetings.
 8 MS. RINES: Correct.
 9 MR. FORMAN: If you miss a fourth RAB
 10 meeting --
 11 MR. SURBER: For four RAB meetings. You miss
 12 four.
 13 MR. FORMAN: -- in any --
 14 MS. RINES: No, no, no.
 15 MR. SURBER: You get four RABs.
 16 MS. RINES: Wait, wait, wait, wait, wait now.
 17 If you have three -- You cannot have four missed RAB
 18 meetings in 12 consecutive months as it follows the
 19 month of the RAB.
 20 MR. FORMAN: So in any given 12-month period,
 21 you can miss only three RABs. The fourth RAB meeting
 22 you miss in any given consecutive 12-month period, you
 23 will get a letter saying that you are disenrolled from
 24 the RAB.
 25 MS. RINES: Okay.

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1 MS. WRIGHT: That's not a word.
 2 MR. MANUEL: Okay. Ke- --
 3 MS. RINES: Removed.
 4 MS. WRIGHT: Thank you.
 5 MR. MANUEL: Does this mean that from September
 6 till the next September '05 if you miss four meetings,
 7 you're screwed, right?
 8 MS. RINES: Correct.
 9 MR. MANUEL: Isn't that a simpler way to just
 10 say this?
 11 MS. ATTENDEE: Yeah.
 12 MS. WRIGHT: Now I understand.
 13 MR. MANUEL: And that's what I'm trying to
 14 figure out is what I'm missing here, but --
 15 MR. FORMAN: Good job, J. R., yeah.
 16 MR. MANUEL: Okay. Thanks.
 17 MS. WRIGHT: September to September.
 18 MR. MANUEL: Yeah, September --
 19 MS. RINES: Correct.
 20 MR. MANUEL: Okay. All right. We are on the
 21 same page, then.
 22 MS. RINES: All right. Let's keep going.
 23 MR. SURBER: Excuse me. Could we have one
 24 conversation, please.
 25 Gentleman in the back.

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1 MR. SMITH: I have been asked to vote for Keith
 2 Tisdell. Is that -- is that okay? Is that appropriate?
 3 MS. ATTENDEE: Yes.
 4 MS. RINES: Yes.
 5 MR. RAB MEMBER: Yes.
 6 MS. RINES: Okay. Any other --? Yes.
 7 MS. RAB MEMBER: September '05 is another
 8 renewal process?
 9 MS. PIERCE: No.
 10 MS. RAB MEMBER: Everything that --
 11 MS. PIERCE: No.
 12 MS. RINES: No. This is the only time we are
 13 doing this.
 14 MS. RAB MEMBER: Next year, okay. I attend the
 15 meeting October, say I miss a meeting. Would that be
 16 one somebody sent in that -- in the following year?
 17 MR. MANUEL: Hold on. She could take her aside
 18 and explain.
 19 MS. RAB MEMBER: No. I'm talking '05.
 20 MS. RINES: Okay. If you're talking in '05, if
 21 you miss October of '04 and then --
 22 RAB MEMBER: -- come back again, it's that --
 23 MS. RINES: Yes, it's a 12- -- it's 12 months
 24 that are --
 25 MS. RAB MEMBER: Okay.

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1 MS. RINES: -- from when you get your first
 2 absence depending on month that the RAB is meeting.
 3 RAB MEMBER: Right.
 4 MS. RINES: I don't know how else to explain
 5 it.
 6 MR. MANUEL: After September you're clean until
 7 next September.
 8 MS. RAB MEMBER: Okay.
 9 MR. MANUEL: How's that?
 10 MS. RAB MEMBER: That's good.
 11 MR. MANUEL: All right.
 12 MR. SURBER: Is there a motion on the floor?
 13 MS. RINES: The motion that we pass the bylaws
 14 as they are written, handed out, and given to you.
 15 MR. SURBER: Is there a second to that?
 16 MS. PIERCE: I second it.
 17 MR. SURBER: All those in favor?
 18 THE BOARD: Aye.
 19 MR. SURBER: All opposed? I see five in
 20 opposition and heard a lot in favor. I don't know if
 21 you count.
 22 Abstentions?
 23 MR. TOMPKINS: Take a hand vote.
 24 MR. SURBER: A hand vote. May I have the hands
 25 of those who approve, say "Aye."

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1 MS. OLIVA: Aye.
 2 MR. SURBER: I count eight. I count eight.
 3 All those opposed?
 4 I count four, four. Motion carries. Thank
 5 you. Congratulations to the Bylaws Subcommittee.
 6 MS. RINES: Thank you. Next meeting,
 7 September --
 8 MS. HUNTER: 15th.
 9 MS. RINES: -- 15th at the library.
 10 MR. SURBER: Okay. Good.
 11 I see that we have scheduled an Economic
 12 Subcommittee meeting for August 10th. Did that occur?
 13 Is there a report?
 14 MR. CAMPBELL: Yes, there was a Economic
 15 Subcommittee meeting. As a matter of fact --
 16 MR. SURBER: Use the microphone, please.
 17 MR. CAMPBELL: The minutes were sent out by
 18 E-mail. They were supposed to be here tonight and
 19 somewhat printed.
 20 It's a fairly complex report. The numbers do
 21 look better at this particular point. But what I'd like
 22 to do is hold off on -- Mr. Brown was going to present
 23 it this evening. I think what we will do is take it
 24 over to the next meeting.
 25 MS. WRIGHT: Vote on that?

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1 MR. CAMPBELL: Pardon me?
 2 MS. WRIGHT: Vote on that?
 3 MR. CAMPBELL: Yeah, thank you.
 4 MR. SURBER: Okay. Good. Thank you.
 5 MS. HUNTER: Next meeting is --
 6 MR. SURBER: Next meeting is --
 7 MR. CAMPBELL: -- first Tuesday --
 8 MR. SURBER: Please, microphone.
 9 MR. FORMAN: You may want to -- because it's a
 10 holiday. First Tuesday or second Tuesday?
 11 MR. CAMPBELL: First Tuesday.
 12 MR. FORMAN: Okay. September 7th.
 13 MR. CAMPBELL: September 7th, right.
 14 MR. FORMAN: Yeah.
 15 MR. CAMPBELL: Okay.
 16 MR. FORMAN: September --
 17 MR. CAMPBELL: 2:30. It will be probably be at
 18 the Anna Waden Library.
 19 MR. SURBER: The Technical Review Subcommittee
 20 was supposed to have met on the 18th. Did that occur?
 21 Is there a report?
 22 MS. LOIZOS: We did meet on the 18th, and the
 23 topic of discussion was more on the manganese issue and
 24 particularly in Parcel B because the Navy is getting
 25 ready to put out their technical memorandum and support

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1 of a ROD amendment for Parcel B, which will be coming
 2 out hopefully at the beginning of next year.
 3 So without getting into much detail, we kind of
 4 looked over the materials that we had available to us
 5 and the data to figure out what we need to come up with
 6 an informed opinion on this issue.
 7 And for the time being, we have a list of
 8 requests that were for the Navy and the BCT. So I'm
 9 going to forward it at this time.
 10 We're asking for a copy of the BCT's comments
 11 on construction summary report that was released in
 12 2002.
 13 We would -- We were asking that the Navy
 14 provide us with a current figure that shows all of the
 15 sampling points and the manganese concentrations at
 16 these points, including the depth of the samples. This
 17 figure may already exist; and if so, just please let us
 18 know where it is because we couldn't find it. It's all
 19 split up in many different documents as far as I could
 20 tell.
 21 And we're also requesting that the Navy attend
 22 an upcoming Technical Review Subcommittee meeting to
 23 discuss metals at Hunters Point Shipyard, specifically
 24 Parcel B. And in the -- my su -- in the minutes,
 25 you'll see that there is some specific information that

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1 we'd like the Navy to have at that meeting.
 2 And lastly, we would like to know where we
 3 could find complete characterization data post and
 4 remedial actions on Parcel B for the entire parcel. And
 5 I know it's a long shot, but we're wondering if the Navy
 6 could provide us with the electronic database for Parcel
 7 B prior to the release of the tech memo.
 8 So I'm forwarding those from the subcommittee
 9 to the Navy.
 10 MR. SURBER: Okay. Thank you.
 11 MS. HUNTER: Next meeting?
 12 MS. LOIZOS: Oh. Next --
 13 MR. WORK: Excuse me.
 14 MS. LOIZOS: September 14th at 6 p.m. at
 15 Community Window on the Shipyard.
 16 Oh, and I'm sorry. I don't want to drag this
 17 out. Last thing: The ZVI field trip, if you could just
 18 please make sure that you signed up if you want to come.
 19 Even if you can only come on a weekend, please sign up
 20 and just check the "weekend" box just so I have your
 21 name and a way to get in contact you. Once I talk to
 22 the Navy, I will get in touch with everyone.
 23 MR. SURBER: Okay. Thank you.
 24 The Lowman Radiological Risk Review
 25 Subcommittee was to have met on August 25th. Is there a

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1 report?
 2 DR. SUMCHAI: The subcommittee met on --
 3 MR. SURBER: Microphone, please. Thank you.
 4 DR. SUMCHAI: The subcommittee met yesterday
 5 afternoon. There were 12 attendees. I want to
 6 appreciate everyone who attended.
 7 Let me preface the presentation by saying that
 8 the next meeting will be on September the 22nd from 3 to
 9 5 p.m. at the Greenhouse. And I would suggest that any
 10 outstanding issues or questions that arose from, you
 11 know, the RASO presentation, that they be addressed at
 12 that meeting, and it might be possible for us to request
 13 that RASO come out for the next subcommittee meetings
 14 to, you know, deal with any outstanding issues.
 15 The meeting was -- it was long and it was -- it
 16 was in-depth, and it focused principally on some of the
 17 pertinent responses to comments on the Hunters Point
 18 Shipyard HRA. And what I will do to help make my
 19 presentation brief is to send you an electronic mail
 20 message in which I, you know, condense and abbreviate,
 21 you know, much of this discussion with regard to the
 22 responses.
 23 There was one request that I did want to make
 24 of you. On August the 7th, 2002, the Redevelopment
 25 Agency responded to the civil grand jury's 2001-2002

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1 report on the Hunters Point Naval Shipyard in which
2 there were four findings and recommendations made by the
3 civil grand jury. Honorable Ronald E. Quidachay was
4 presiding judge.

5 And Finding 3 and Recommendation 3 concerned
6 the nature and extent of health hazards at Hunters Point
7 Shipyard. It identifies that there is no agreement
8 among EPA, the federal and state agencies, community
9 organizations and the media with regard to these health
10 hazards, and it encourages direct communication among
11 all governmental agencies and encourages strengthening
12 of this communication.

13 And it also identifies that there's a lack of
14 complete data and incomplete documentation of the extent
15 of toxins known as site characterization, that this
16 exasperates the level of community mistrust, and it
17 references the Historical Radiological Assessment.

18 The recommendation is that EPA should review
19 what testing and monitoring of the Shipyard site has
20 been completed or is underway; and using federal and
21 state expertise and information, the City should work
22 with the Navy and environmental regulators to review
23 available test data essentially in an effort to
24 facilitate site characterization. And it identifies
25 that there's a need for a clear schedule for this effort

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1 and that it should be provided to the public.

2 To my knowledge, the Department of Public
3 Health has never responded to these findings and
4 recommendations. And I have, you know, taken the
5 liberty to contact Dr. Chow who is the president of the
6 Health Commission. I have encouraged him to --

7 THE REPORTER: Excuse me.

8 DR. SUMCHAI: -- ask the Health Commission --

9 MR. SURBER: Excuse me. We're out of paper.

10 MR. MANUEL: We're also out of time.

11 MR. SURBER: We're getting awfully close,
12 you're right.

13 I am also reminded that we're getting very
14 close to our deadline. If you could make your
15 comments -- final comments brief, it would be helpful.

16 You ready to go? Okay.

17 Please proceed.

18 DR. SUMCHAI: Well, let me just cut to the
19 chase.

20 I would like to make a motion to the RAB that
21 you support a request that the Health Department and the
22 Health Commission formally respond to the findings and
23 recommendations of the civil grand jury report of 2002
24 regarding the Hunters Point Shipyard and specifically
25 the need to address full site characterization of the

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1 Shipyard and the health and safety issues at the
2 Shipyard.

3 MR. SURBER: Is there second?

4 MR. TOMPKINS: Second.

5 MR. SURBER: All those in favor?

6 Any suggestion?

7 MR. RAB MEMBER: No.

8 MR. SURBER: All those in favor, say "Aye."

9 THE BOARD: Aye.

10 MR. SURBER: All those opposed? Any

11 abstentions?

12 Motion carries. Thank you.

13 Anything else in your report?

14 DR. SUMCHAI: Yes. There are two other things.

15 With regard to the industrial landfill, one of
16 the most important responses in the HRA response is that
17 I felt was a response made by EPA's tech law with regard
18 to the landfill. It identified that there are areas
19 with elevated levels of radiation that much of the
20 landfill has been capped. It's unclear what parts of
21 the landfill are not capped and the relationship between
22 uncapped areas and hot spots in the landfill.

23 And RASO responded to this concern by saying
24 that an extensive characterization survey of the
25 industrial landfill was conducted during the Phase V

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1 investigation. The Navy has not yet reviewed the final
2 report of the surveys, and the results of the surveys
3 and the location of the elevated radiation levels will
4 not be released until the Navy has reviewed and approved
5 the characterization survey report.

6 There are numerous documents with regard to the
7 conveyance of Parcel A that identified that the landfill
8 is a significant adjacency issue; and I feel very, very
9 strongly that if the Navy has information about the
10 characterization of this landfill, that this information
11 needs to be vetted prior to any type of conveyance
12 and --

13 MR. SURBER: Is there a question or a motion
14 you're making?

15 DR. SUMCHAI: Yes. I am -- I would like to
16 move that RASO prioritize the review of the Phase V
17 investigation such that the characterization of the
18 landfill be its number-one priority and that we have
19 this information and that it's available to us prior to
20 getting type of conveyance of property.

21 MR. SURBER: Is there a second to the motion?

22 MR. TOMPKINS: Second.

23 MR. SURBER: All those in favor, say "Aye."

24 THE BOARD: Aye.

25 MR. SURBER: Opposed?

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1 Motion's unanimous.
 2 DR. SUMCHAI: Okay. I appreciate it.
 3 And just succinctly, EPA also astutely
 4 identifies that there was an interview with William Grab
 5 that indicated it was impossible to catch a general --
 6 containerize all of the Operations Crossroads sandblast
 7 grit and that some of it went into the water at the end
 8 of the dry docks.
 9 And this comment identifies that all of the dry
 10 docks are at risk and that the tunnels beneath Dry
 11 Dock 4 were found to be full of sediment.
 12 The RASO presentation that Laurie just gave us
 13 identified that, you know, couple of the dry docks -- I
 14 think it was 6 and 7 -- they were going to be looking
 15 at. But from, you know, the information that's present,
 16 it looks as if all the dry docks in Parcel F need to be
 17 included as part of our radiological characterization.
 18 So I don't think that there needs to be a
 19 motion made on that. That's a topic that I would like
 20 to take up at the next Radiological Subcommittee meeting
 21 looking at Parcel F.
 22 MR. SURBER: Good. Thank you. And that will
 23 be -- That next meeting will be --
 24 DR. SUMCHAI: -- September the 22nd from 3 to
 25 5 p.m.

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1 MR. SURBER: Oh, okay. Thank you very much.
 2 Any brief public comment?
 3 MR. MANUEL: You're doing a great job.
 4 MR. SURBER: Thank you.
 5 Any -- Do we move to adjourn?
 6 (Simultaneous colloquy.)
 7 MR. MANUEL: Second.
 8 MR. SURBER: What --? Somebody moved and
 9 somebody seconded. Any opposite --? All those in
 10 favor?
 11 THE BOARD: Aye.
 12 MR. SURBER: Thank you for your attendance and
 13 participation.
 14 (Off record at 8:10 p.m., 8/06/04.)
 15 ---oOo---

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CERTIFICATE OF REPORTER

I, CHRISTINE M. NICCOLI, Certified Shorthand Reporter of the State of California, do hereby certify that the foregoing meeting was reported by me stenographically to the best of my ability at the time and place aforementioned.

IN WITNESS WHEREOF I have hereunto set my hand this 16th day of September, 2004

Christine M. Niccoli
 CHRISTINE M. NICCOLI, C.S.R. NO. 4569