



FINAL NAVAL AIR STATION ALAMEDA Restoration Advisory Board (RAB) Meeting Minutes

November 14, 2013

www.bracpmo.navy.mil

950 West Mall Square, Alameda City Hall West
Room 140, Community Conference Room
Alameda Point
Alameda, California

The following participants attended the meeting:

Co-Chairs:

Derek Robinson Base Realignment and Closure (BRAC) Program Management Office
(PMO) West, BRAC Environmental Coordinator (BEC), Navy Co-chair

Dale Smith Restoration Advisory Board (RAB) Community Co-chair

RAB Members

Richard Bangert; Susan Galleymore; Carol Gottstein, M.D.; George Humphreys; James Leach;
Bert Morgan; Kurt Peterson; Bill Smith; Jane Sullwold; Michael John Torrey

Community Members/Public Attendees

Gretchen Lipow, Robert Sullwold

Navy

Bill McGinnis, Lead Remedial Project Manager, BRAC PMO-West

Regulatory Agencies

James Fyfe, California Environmental Protection Agency (Cal/EPA) Department of Toxic
Substances Control (DTSC)
John West, Water Board

City of Alameda

Peter Russell, Russell Resources/City of Alameda (City)

Contractors

John McGuire, CB&I
Nihal Oztek, Tetra Tech
Tommie Jean Valmassy, Tetra Tech

The meeting agenda is provided as [Attachment A](#).

MEETING SUMMARY

I. Welcome and Introductions

Derek Robinson (RAB Navy Co-Chair) called the November 2013 former Naval Air Station Alameda (Alameda Point [AP]) RAB meeting to order, and initiated a round of introductions. Dale Smith (RAB Community Co-Chair) said Skip McIntosh and Jim Sweeney have excused absences this evening.

II. Co-Chair Announcements

Mr. Robinson said he would like to make sure the RAB discusses presentation requests at the meeting tonight so the Navy has time to plan for the next meeting. He said some topics must be reviewed by the Radiological Affairs Support Office and the Public Affairs Officer prior to presentation.

Ms. D. Smith said she, along with George Humphreys (RAB member) and Mr. McIntosh are interested in a presentation on liquefaction at Alameda Point.

Ms. D. Smith submitted a signed copy of the comments on the Draft Remedial Action Completion Report for Site 34. A copy is included as [Attachment B](#).

III. Community and RAB Comment Period

John West (Water Board) announced that the Coast Guard pulled a tugboat from the Oakland Inner Harbor. He said the U.S. EPA and some others have a fund for removing derelict vessels. Mr. West is looking into funding for the vessel by Site 2, which RAB members saw during the site tour earlier this year.

Richard Bangert (RAB member) said the Navy BRAC website is down, and has been since the federal government shut-down earlier this fall. He asked when it will be functional again. Mr. Robinson said he was not aware that it was still having problems. BRAC is working to host a new website and he believes that converting over could be the issue. Mr. Robinson will find out about the status of the BRAC website and when it will be accessible again.

Mr. Bangert said he asked for a copy of the workplan for bringing dredged sediment from former Naval Station Treasure Island to Alameda Point, and he still has not received the document. Jim Fyfe (DTSC) said the document is on EnviroStor, and he will download it and provide it to Mr. Bangert.

Mr. Humphreys provided an article from Mechanical Engineering, November 2013 issue, page 25, in which cleanup methods for treating groundwater contaminated with chlorinated solvents are evaluated. Mr. Humphreys said he thought PCE (tetrachloroethene) was the primary source of DNAPL and TCE (trichloroethene) was a degradation product. He suggested the Navy contact the experts identified in the article to discuss what might work at Operable Unit (OU) 2B at Alameda Point. Ms. D. Smith said vegetable oil had been used at Site 24 on Treasure Island, so the Navy has experience with that technology. Ms. Galley more asked how the Navy would make a decision to use a particular technology. Mr. Robinson explained the Record of Decision (ROD) states only that bioremediation will be the remedy. The Navy has the leeway to consider exactly what kind of bioremediation will be used, and that will be documented in the Remedial Design. He said this is the ideal time to explore the best kind of options related to

bioremediation, as they are preparing the Remedial Design. Ms. D. Smith suggested Mr. Robinson talk to the Treasure Island Navy team about the details of the bioremediation they used there. Peter Russell (Russell Resources) said a similar technology is also being used at Site 26 at Alameda Point.

The presentations for the next RAB meeting, January 2014, were discussed. It was determined that the two presentations for January will be: (1) dredged materials from the estuary that may have been contaminated from Building 5; and (2) liquefaction during a seismic event bringing deeper contamination to the surface.

Bill Smith (RAB Member) said Congresswoman Barbara Lee will be in Alameda on Saturday, November 16, at the City Council meeting. He recommended arriving early to guarantee a seat.

Mr. Robinson said he does not have the look-ahead handout for upcoming documents. The handout will be mailed to the RAB members after this meeting.

IV. 2014 RAB Community Co-Chair and Vice Co-Chair Elections

Ballots were issued to vote for the positions of RAB Community Co-Chair and Community Vice Co-Chair. The nominees for Community Co-Chair were George Humphreys, Carol Gottstein, and Susan Galleymore. The nominee for Community Vice Co-Chair was Susan Galleymore. The RAB elected Mr. Humphreys as the RAB Community Co-Chair and Ms. Galleymore as the Community Vice Co-Chair. Since Mr. Humphreys does not regularly use email, it was suggested that Ms. Galleymore can email the RAB on behalf of Mr. Humphreys, upon his request, if needed.

V. Enhanced Bioremediation Source Area Treatment at Plume 4-1, Operable Unit 2B, IR Site 4

Mr. Robinson introduced John McGuire (CB&I) to begin the update ([Attachment C](#)). During the review of slide 2, Mr. B. Smith said it was great that the source of dense non-aqueous phase liquid (DNAPL) was found, and asked how thick the source was. Mr. McGuire said the source was about 1.5 feet thick and located at a depth of about 19.5 feet below ground surface. Ms. D. Smith asked what the source was. Mr. McGuire said that cannot be determined; he noted it is near train tracks, and could have been a spill. Jane Sullwold (RAB member) asked how much spilled. Mr. McGuire said that cannot be calculated since it has dispersed over time. Mr. B. Smith asked what prevented the DNAPL from sinking further. Mr. McGuire said it reached a less permeable layer and stopped sinking. Mr. Humphreys asked if TCE (trichloroethene) is a DNAPL. Mr. McGuire said TCE is a DNAPL, and it is one of the primary compounds found in this plume.

During the review of slide 9, Dr. Gottstein said the chart seems to indicate rebound. Mr. McGuire said the chart shows that ethene is increasing, which is an affirmative indication that the bioremediation is working. James Leach (RAB member) asked why anaerobic, rather than aerobic, bioremediation is being used. Mr. McGuire said that anaerobic is the technology they thought would work best given the site conditions.

In summary, Mr. McGuire said he recommends bioremediation be used across the site. He does not think the entire source has been addressed yet. Daniel Hoy (RAB member) asked how long it would take to treat the site. Mr. McGuire speculated active treatment should take about 18 months, and then it would need to be monitored for a few years. Ms. Sullwold asked if monitoring then treating again has been done at other sites. Mr. McGuire said yes, that is

common. Mr. Bangert asked what is the connection between this plume and the larger OU-2B plume where the Navy is using the six-phase heating treatment. Mr. McGuire said this is the same plume, however, this particular location contains higher concentrations.

VI. Finding of Suitability to Transfer (FOST)

Mr. Robinson gave the update on the FOST process ([Attachment D](#)). He noted the final FOST was issued in April 2013, and is located in the information repository. He explained that review of the FOST may assist RAB members in commenting on City plan documents.

During the review of slide two, Mr. Robinson said the property disposal alternative being used at Alameda Point is the economic development conveyance (EDC). Mr. B. Smith noted the transfer is not free to the City, because the City wants to put in housing. .

During the review of slide 3, Ms. D. Smith asked if the Navy could transfer the property, and require the reuse agency to conduct required environmental monitoring. Mr. Robinson said that is not what has been negotiated at Alameda Point. Mr. Russell said the City will be monitoring for institutional controls and the Navy will conduct groundwater monitoring.

Mr. Robinson said another FOST for additional property will be issued in 2014. It may include Sites 16, 17, 24, 34, AOC 1, AOC 6, and a portion of Site 3.

VII. Approval of September 12, 2013, RAB Meeting Minutes/Review Action Items

Mr. Robinson reviewed the status of action items. It was determined that Item 3a and 4 are the same thing, and they will be combined (liquefaction during a seismic event bringing contamination to the surface, which will be presented at the January 2014 meeting.) Item 5, the Loma Prieta seismic report, will now be addressed by Mr. Leach, who has access to the Pacific Earthquake Engineering Report (PEER). New action items from this meeting are noted in the table.

Mr. Robinson asked for comments on the draft September 12, 2013, RAB meeting minutes.

Mr. Humphreys made the following comments:

- Page 4, third paragraph under Section VI, second line: change “was” to “were.”
- Page 4, fifth paragraph under Section VI, last line: after “...action objectives of the project” add “which were to show achievement of remedial goals with 95% confidence, as established by the Record of Decision.”

Dr. Gottstein made the following comment:

- Page 2, under Section II: change “on naming the City Center” to “on renaming the Town Center”

Mr. Russell made the following comment:

- Page 4, last paragraph before Section VI: after “CAA 9” add “; Building 410 is in IR Site 9.”

The minutes were approved with the preceding changes incorporated. The next RAB meeting will be held on Thursday, January 9, 2014.

Action Items:	Previous Item #/ Action Item Status/ Action Item Due Date:	Initiated by:	Responsible Person:
1. Request for Presentations: a. Site 1 Radiological RD/RA work plan b. Basewide Radiological Contamination from Building 5 and estuary dredging c. OU-2A Tarry Refinery Waste and Rail Cars d. Liquefaction during a seismic event	a. Pending b. Planned for January 2014 c. Pending d. Planned for January 2014	a. RAB b. Mr. Humphreys c. RAB d. RAB	Mr. Robinson
2. Navy to look into video-conferencing capabilities at various Alameda locations	Ongoing	RAB	Mr. Robinson
3. OU-5/FISCA IR02 Navy to investigate whether return to anaerobic conditions after cessation of biosparging will result in contaminant concentrations at groundwater/soil interface	Pending	Mr. Humphreys	Mr. Robinson
4. Navy to locate the Loma Prieta seismic report for AP	In progress, J. Leach will provide the Pacific Earthquake Engineering Report (PEER)	Ms. D. Smith	Mr. Robinson
5. Look for the booms visible from the Bay Trail. Find out who they belong to and ask if they can be removed	Complete	Mr. Sweeney	Mr. West
6. When the Community Involvement Plan update is final, the document will be emailed to the RAB members. Mr. Humphreys and the Community Co-Chair will receive a hard copy	Pending	Ms. D. Smith	Mr. Robinson
7. Let the RAB know the status of the Navy's BRAC website and when it will be accessible again	Complete	R. Bangert	D. Robinson
8. Provide a copy of the workplan for the Treasure Island Site 27 dredged sediment being barged to Alameda Point.	New	R. Bangert	J. Fyfe
9. Provide a handout detailing upcoming documents.	Complete		D. Robinson

ATTACHMENTS

NAVAL AIR STATION ALAMEDA RESTORATION ADVISORY BOARD MEETING ATTACHMENTS

- A. Naval Air Station Alameda Restoration Advisory Board Meeting Agenda, November 14, 2013 (1 page)
- B. Signed copy of the comments on the Draft Remedial Action Completion Report for Site 34
- C. Enhanced Bioremediation Source Area Treatment at Plume 4-1, Operable Unit 2B, IR Site 4 (10 slides)
- D. Finding of Suitability to Transfer (FOST) (9 slides)

RESTORATION ADVISORY BOARD

NAVAL AIR STATION, ALAMEDA

AGENDA

NOVEMBER 14, 2013, 6:30 PM

**ALAMEDA POINT – 950 WEST MALL SQUARE, ALAMEDA CITY HALL WEST
SUITE 140/COMMUNITY CONFERENCE ROOM**

(FROM PARKING LOT ON W. MIDWAY AVENUE, ENTER THROUGH MIDDLE WING)

<u>TIME</u>	<u>SUBJECT</u>	<u>PRESENTER</u>
6:30 – 6:35	Welcome and Introductions	Community and RAB
6:35 – 6:50	Community and RAB Comment Period*	Community and RAB
6:50 – 7:10	Co-Chair Announcements	Co-Chairs
7:10 – 7:20	2014 RAB Community Co-Chair and Vice Co-Chair Elections	RAB
7:20 – 8:00	OU-2B University Study	Navy Representative
8:00 – 8:20	Property Transfer (FOST) Process	Navy Representative
8:20 – 8:30	Approval of Minutes	RAB
8:30	RAB Meeting Adjournment	

* If there is time at the end of the agenda, additional comments will be taken.

Mr. Derek Robinson
Department of the Navy
Base Realignment and Closure, Program Management Office West
1455 Frazee Road
San Diego 92108

November 6, 2013

Re: Comments on the Draft Remedial Action Completion Report for Site 34

Dear Mr. Robinson,

Thank you for the opportunity to comment on the above document.

We are familiar with laboratory sample qualifiers U, J, UJ and R. This document identifies a qualifier C in the text that is not found in the tables or figures. What is its meaning?

Figures 4-3 for Remedial Action Area 2, 4-4 for Remedial Action Area 3, 4-6 for Remedial Action Area 5, 4-8 for Remedial Action Area 7, 4-11 for Remedial Action Area 11, 4-12 for Remedial Action Area 12 and 4-13 for Remedial Action Area 13, as well as figure 1, show some sample concentrations in red and/or pink. There is no explanation in the legends for these designations.

In five out of fourteen Remedial Action Areas sidewall and bottom sampling indicated contamination levels over remedial goals. During the RAB presentation it was stated that the ROD permitted "site-wide" compliance with remedial goals. It is unclear how "site-wide" compliance averaging is being achieved. For those instances where "site-wide" averaging was used (for example, Remedial Action Area 7), what calculated dilution factor was used to achieve compliance without further excavation?

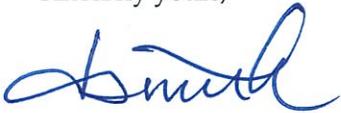
The acronym list is incomplete. IRP is not defined and is not customarily used by the navy.

It would be visually helpful to have the stepouts identified in the figures as the depths are.

Remedial Action Area 2B was over excavated to the north by ten feet. Was this because the contractor was using standard EPA and DTSC protocols and not the navy's relaxed standards? If not, what caused the misunderstanding and who was the excavator?

Again, thank you for the opportunity to comment.

Sincerely yours,



Dale Smith, Community Co-chair



George Humphreys, Vice Community Co-chair



Alameda Point



Enhanced Bioremediation Source Area Treatment at Plume 4-1, Operable Unit-2B, IR Site 4

Presented by
John McGuire PMP
CB&I Project Manager

**Restoration Advisory Board (RAB) Meeting
November 14, 2013**



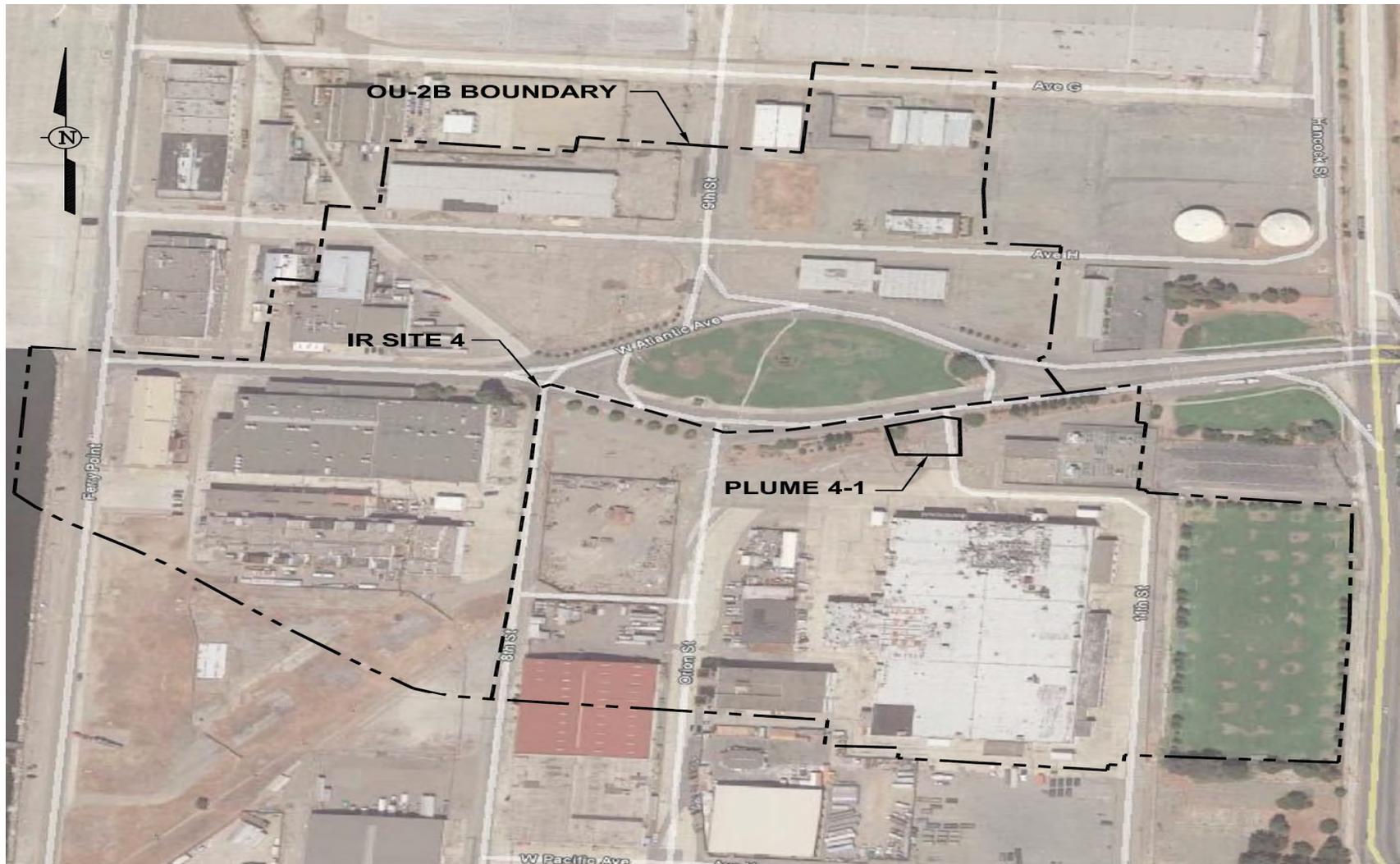
Enhanced Bioremediation Source Area Treatment



- Objective – evaluate the effectiveness of TCE DNAPL removal using enhanced bioremediation within the target treatment zone and to provide a basis for expanding bioremediation to the extended plume.
- Project done in conjunction with SERDP (Strategic Environmental Research and Development Program)
- Phase 1 was to identify the DNAPL source zone
 - MIPS, soil borings with Sudan IV dye, hydraulic profiling, well installation, tracer test
 - Source at 19.5' bgs, approximately 15' long x 8' wide
- Phase 2 consisted of a groundwater recirculation system with three injection and four extraction wells
- Multilevel sampling and monitoring wells
- Groundwater amended with sodium lactate substrate plus essential nutrients and bioaugmented with SDC-9 bacteria after reducing conditions were established

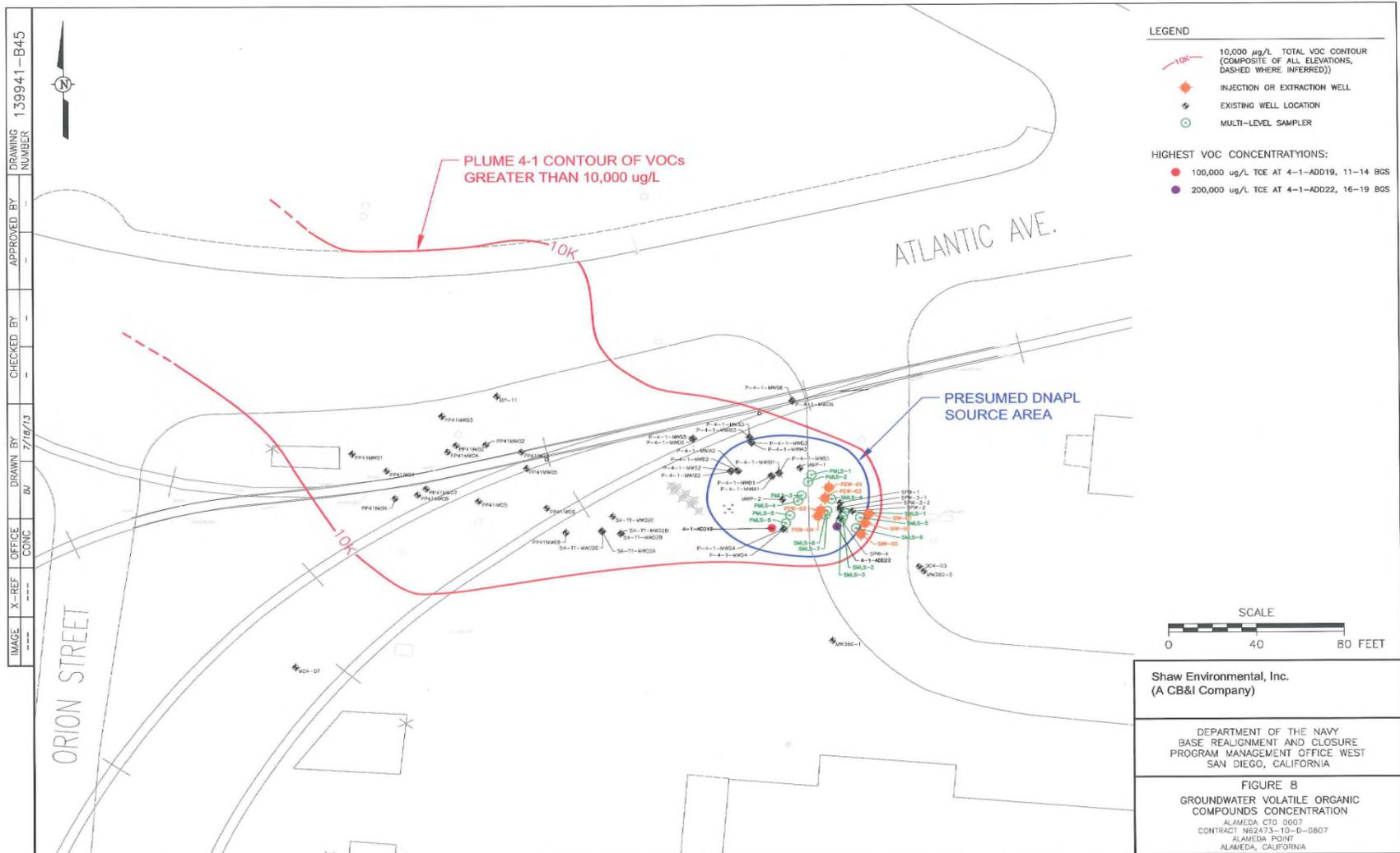


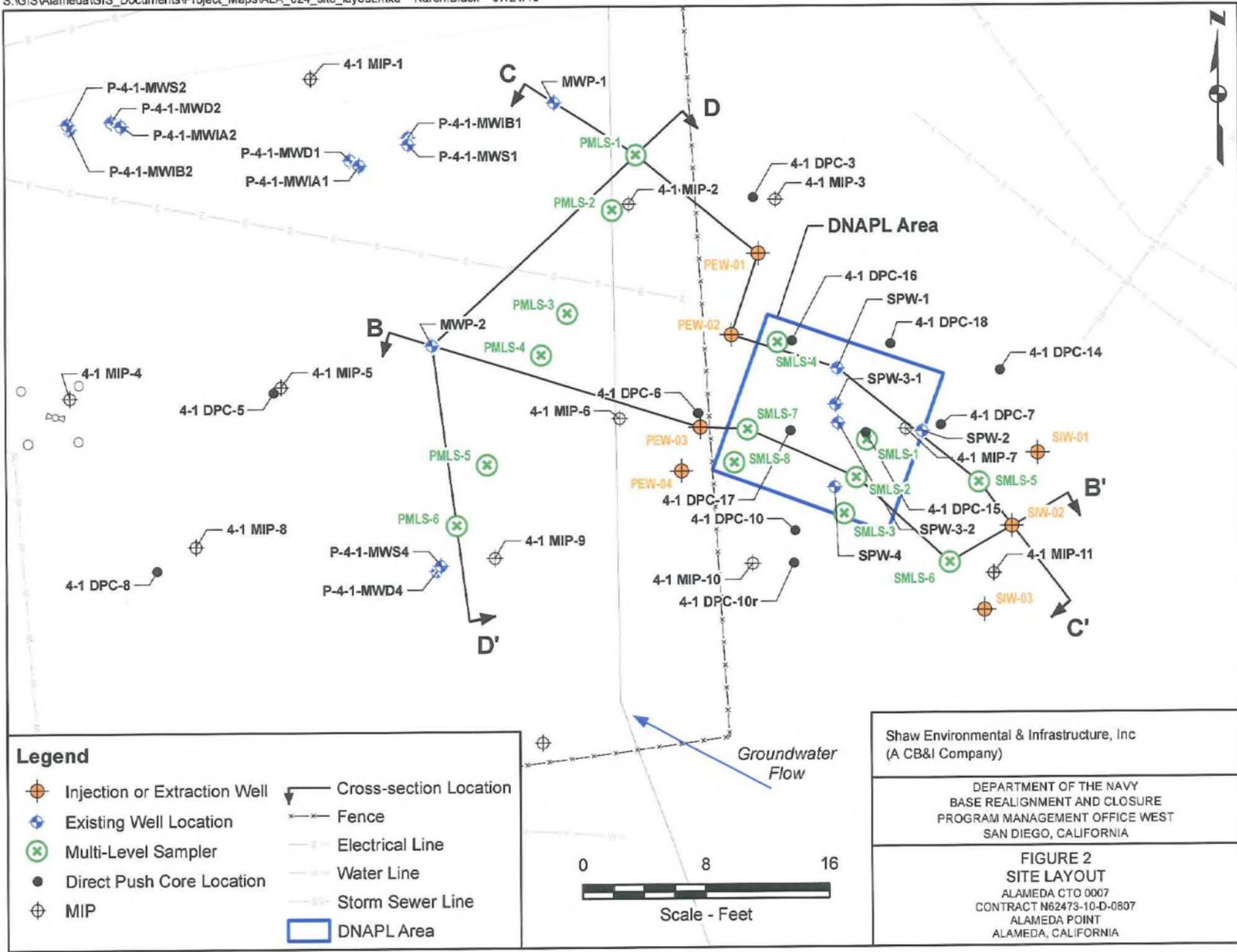
Enhanced Bioremediation Source Area Treatment





Original Plume





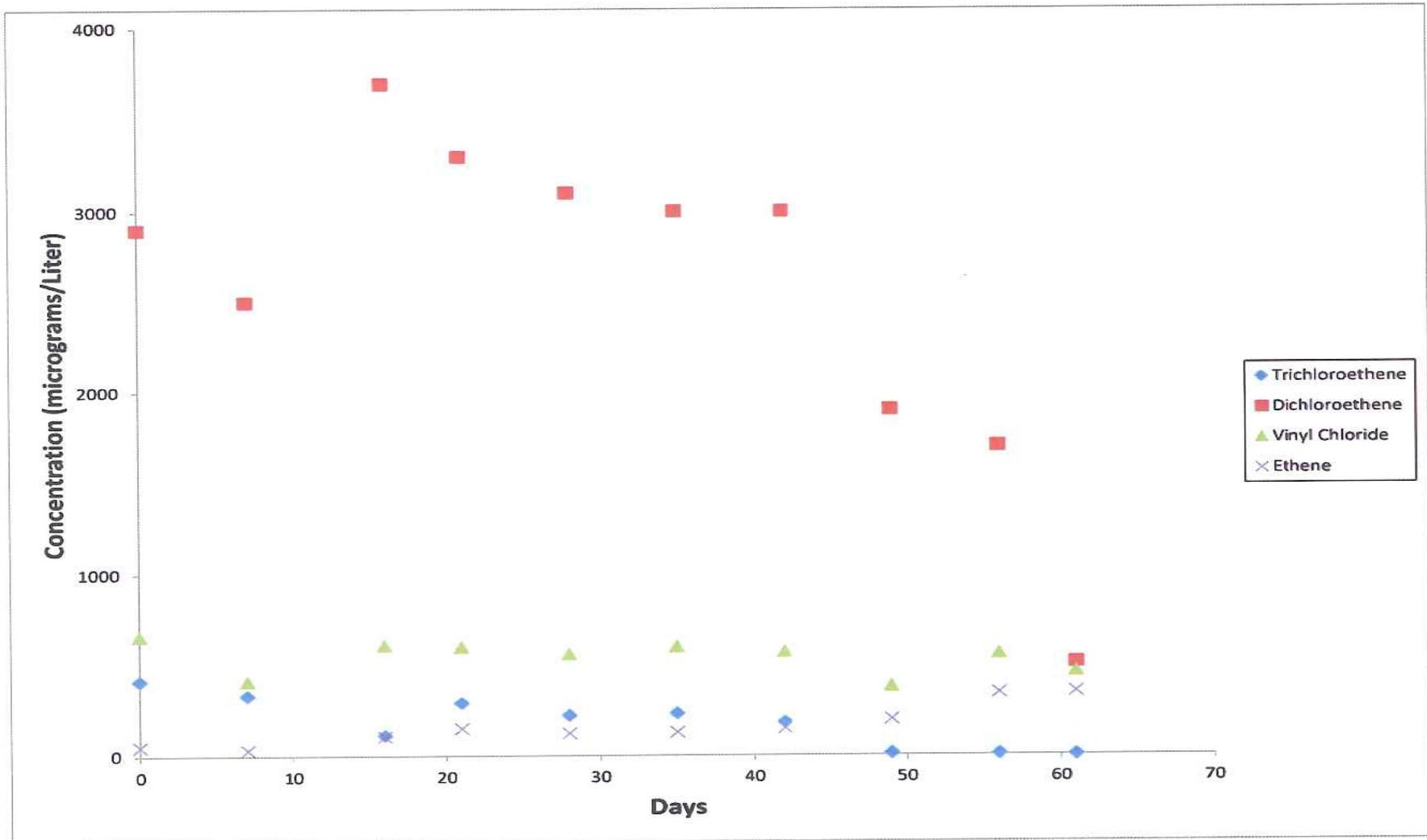


Recirculation System



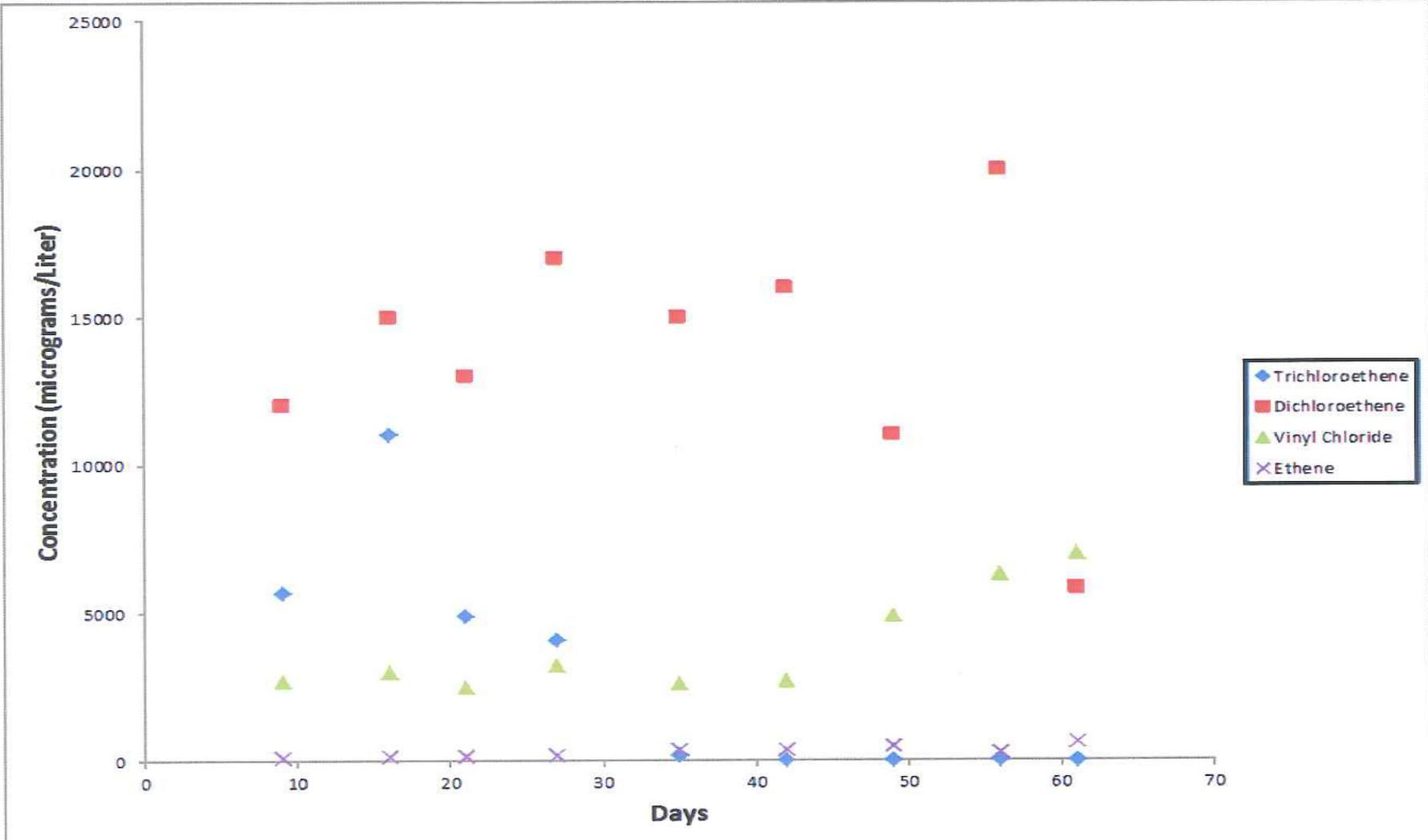


Extraction Well 1 Post Bio Chlorinated Concentrations





MLS Well 7-1 Post Bio Treatment Chlorinated Concentrations





Summary of Findings



- Bioremediation shown to be effective
 - During active treatment and recirculation groundwater concentrations reduced up to 99% in one location and an average greater than 70% across all extraction and monitoring points
- Complete dechlorination of TCE, as shown by the generation of ethane, was observed in all extraction wells
- Increases in ethane concentrations are in agreement with decreases in trichloroethene and dichloroethene concentrations at the extraction wells
- Post treatment sampling showed minimal rebound
- Microbially enhanced reductive dechlorination has continued and reducing conditions have persisted after completion of active treatment, so continued reductions are expected



Finding of Suitability for Transfer (FOST)

Alameda RAB Meeting Alameda Point

Navy BRAC PMO West
November 14, 2013



Property Disposal Alternatives



Property Disposal Alternatives

- Disposal of Property for Use by Homeless
- Public Benefit Conveyance (PBC)
- Conservation Conveyances
- Transfer Authority in Connection with Payment of Environmental Remediation Costs
- Public Sales / Negotiated Sales
- Economic Development Conveyances
- Special Legislation
- Misc. Others



Environmental Disposition



Environmental Disposition Categories

1. Uncontaminated Property
2. No Remedial Action Required
3. Remedy Completed by the Department of Defense.
4. Remedy in Place by the Department of Defense – “OPS”
5. Early Transfer
 - The Department of Defense Completes the Response or Corrective Action
 - Privatization of Response or Corrective Action



FOST



Finding of Suitability to Transfer (FOST)

- Ensures all applicable statutory and regulatory requirements have been satisfied
- States the property is environmentally suitable for transfer
- Contains a description of any long-term remedies (including land-use controls) and responsibilities for their maintenance and reporting
- Is forwarded to the State and/or EPA for review and comment



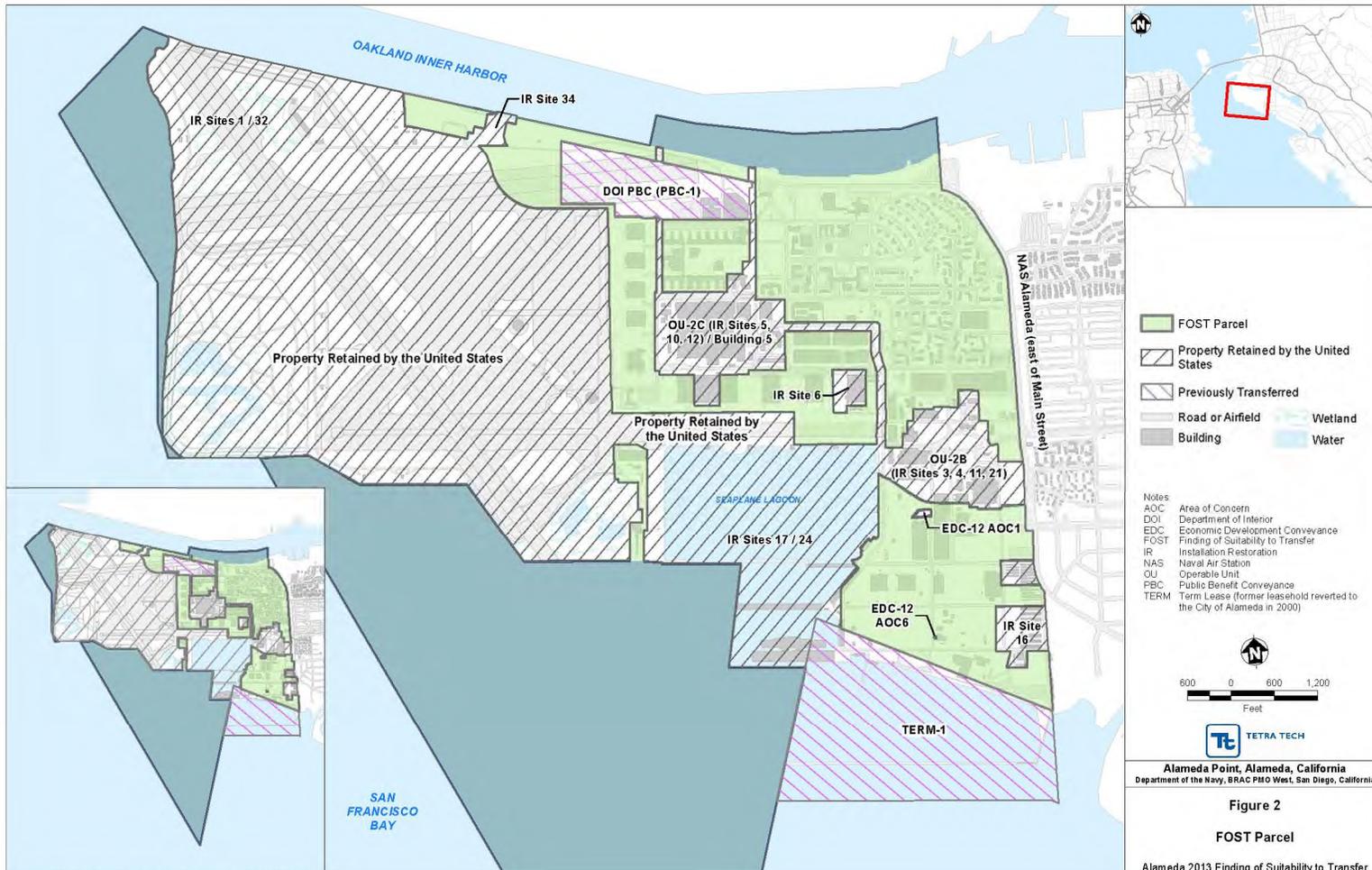
Alameda FOST 2013



- Purpose
- Property Description
- Regulatory Coordination
- Summary of Environmental Conditions: CERCLA, Petroleum, Asbestos, etc.
- Summary of Restrictions
- Adjacent Properties
- Access Clause
- Covenants
- Finding of Suitability to Transfer Statement



Alameda FOST 2013 Areas



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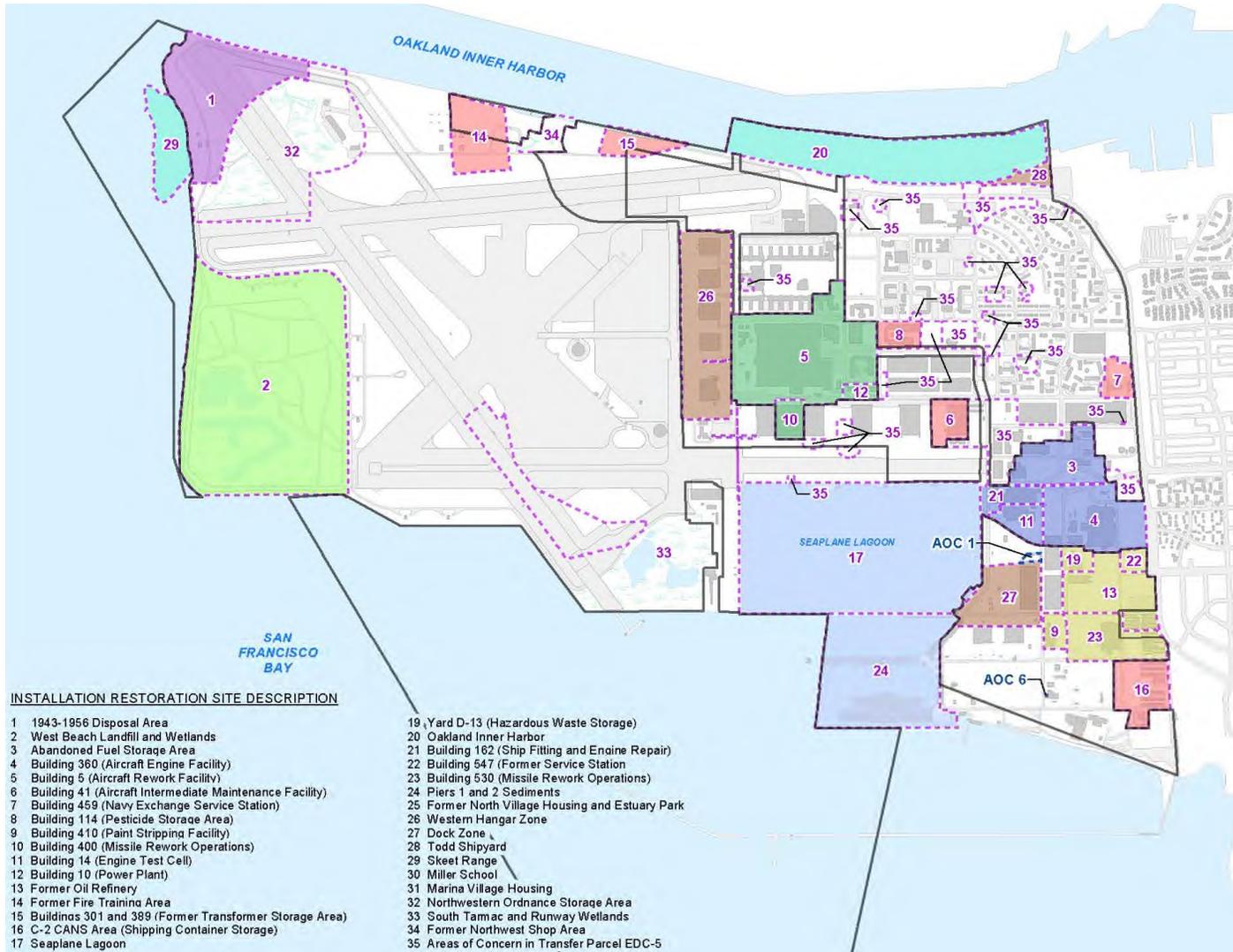
FOST Phase II



- Working with the City of Alameda on areas that are a priority
- Regulatory agencies are being coordinated with for outstanding environmental sites
- FOST to be prepared starting in Spring 2014
- As of the Phase I transfer, the second phase of transferred property was targeted for December 2014
- Property to be included in Phase II



Alameda IR Sites





Questions??

