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

September 12, 2013

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ALAMEDA POINT
SSIC NO. 5090.3.A

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; Skip McIntosh; Bert Morgan; Kurt Peterson; Bill Smith; Jane Sullwold; Michael John Torrey

Community Members/Public Attendees

Geza Gergo, 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)
Chris Lichens, U.S. Environmental Protection Agency (EPA)
Ross Steenson, San Francisco Bay Regional Water Quality Control Board (Water Board)
Dan Waligora, California Department of Fish and Wildlife (CDFW)
John West, Water Board

City of Alameda

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

Contractors

James Bauer, Sustainable Technologies
John McMillan, CB&I
Ernesto Montenero, Sustainable Technologies
Michael O'Hare, Tetra Tech EC
Nihal Oztek, Tetra Tech

Jeff Sobul, Sustainable Technologies
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 September 2013 former Naval Air Station Alameda (Alameda Point [AP]) RAB meeting to order, and initiated a round of introductions.

II. Community and RAB Comment Period

George Humphreys (RAB member) passed around a recent news article from the *San Francisco Chronicle.* The article illustrates the areas of Alameda that are projected to flood in the event of a large earthquake in Alaska.

Carol Gottstein (RAB member) informed the group that the City of Alameda's Environmental Impact Report (EIR) is available. It can be found at the City Clerk's office. The comment period is September 4 through October 21, 2013. Dale Smith (RAB Community Co-Chair) said the EIR is also available on-line on the planning department website: http://alamedaca.gov/alameda-point/drafteir. Ms. D. Smith noted there is a public meeting at 7:00 p.m. on Wednesday, September 25, 2013. Ms. D. Smith also announced that the City of Alameda is seeking public input on renaming the Town Center; information for that can also be found on-line.

III. Co-Chair Announcements

Ms. D. Smith said she has received a request from RAB members that the group meet unofficially every other month (on months when there is not a Navy-hosted RAB meeting.) The additional meetings would provide an opportunity for RAB members to get into more detailed discussions on a greater number of topics. Mr. Humphreys said he would support the idea if there were topics to discuss. Bert Morgan (RAB member) asked if there is a list of topics the group would talk about at those meetings. Bill Smith (RAB member) asked if the meetings would be just for RAB members, or if others would be invited. He added that the meetings would be more productive if there was someone to organize and lead them, and if they included a presentation of some sort. The RAB voted to allow the Community Co-Chair to call ad hoc meetings on off-months if there is a topic that warrants a meeting.

Mr. Robinson thanked the RAB members for attending the RAB tour on August 3, 2013. He announced that the Navy is updating its Community Involvement Plan (CIP) to reflect the current RAB schedule, regulatory agency contact information, outreach efforts, etc. Ms. Smith asked if all of the RAB members could receive a copy of the CIP. Mr. Robinson asked RAB members, and they all agreed they would like a copy of the final CIP. Most RAB members prefer the document via email; a hard copy will be sent to Mr. Humphreys and to the Community Co-Chair.

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

Mr. Robinson asked for nominations for the position of RAB Community Co-Chair and RAB Community Vice Co-Chair. Daniel Hoy, George Humphreys, and Carol Gottstein were all nominated for RAB Community Co-Chair. Mr. Hoy was not present, so Mr. Robinson said he will contact Mr. Hoy and ask him if he accepts the nomination. Susan Galleymore was nominated as RAB Community Vice Co-Chair; Ms. Galleymore accepted the nomination, saying she would accept the position only if Mr. Humphreys is elected Community Co-Chair. [Subsequent to this meeting, Mr. Hoy did not accept the nomination. Instead he nominated Susan Galleymore for Community Co-Chair, and Ms. Galleymore accepted.] RAB members will vote at the next RAB meeting, in November.

V. Petroleum Update, Focus on CAA 11 and Building 410

Mr. Robinson introduced John West (Water Board) to begin the petroleum update (Attachment B). Mr. West noted the petroleum program is separate from the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) program. He said the Water Board is available to discuss the petroleum program cleanup with RAB members. He added that the Water Board office in downtown Oakland is nearby and available for meetings.

Mr. West said the petroleum program includes aboveground storage tanks (ASTs), underground storage tanks (USTs), oil/water separators (OWSs), and pipelines. He introduced Ross Steenson (Water Board), and explained Mr. Steenson is taking the lead on sites that are candidates for closure. In the past few weeks, the Water Board and Navy have been able to close more than twelve petroleum sites.

Mr. Robinson introduced John McMillan (CB&I) to continue the update. During the review of slide 9, Kurt Peterson (RAB member) asked what the dimensions are of a 25,000 gallon tank. Mr. McMillan said they are about 8 feet in diameter and 30 feet long. Mr. McMillan added that they are installed to a depth where there is room for 3-5 feet of soil cover on top.

During the review of slide 11, Ms. D. Smith said the groundwater wells adjacent to Seaplane Lagoon are tidally influenced and asked how they can be accurately sampled for exceedences and if contaminants in the area are being dispersed into the Bay. She also asked if the contamination in Corrective Action Area (CAA) 11 is contributing to the plume in Operable Unit (OU) 2B. Mr. McMillan said the contaminants at OU 2B are different than at CAA 11, so this is not contributing to that plume.

Richard Bangert (RAB member) asked what the petroleum contamination is related to. Mr. McMillan said the contamination is from aviation fuels, though some records indicate there could be waste fuels from ships as well. James Leach (RAB member) asked if ozone will be used for the air sparging remedy selected for the site. Bill McGinnis (Navy) said ozone is not being used.

Michael O'Hare (Tetra Tech EC) took over the presentation at slide 12, giving the update on the work the Navy is doing at Building 410. Mr. Peterson noted the project area is outside of Building 410, and asked what the source of the contamination is. Mr. O'Hare said the contamination is southeast of Building 410. It was an aircraft storage and wash area. He said the contaminants include petroleum hydrocarbons, diesel, and motor oil, among others. Ms. D. Smith asked if there was a tank farm present in this area. Mr. O'Hare said there was no tank farm present.

Mr. O'Hare said the air sparging/soil vapor extraction (AS/SVE) system began on August 5, 2013. The Navy will evaluate the progress on 6-month intervals. However, the next sampling event for the basewide groundwater monitoring program is scheduled for October, so this area will also be evaluated at that time. Ms. D. Smith asked what is the volume of material that needs to be removed. Mr. O'Hare said the volume to be collected is small, which is why they forecast a short duration for the AS/SVE. Mr. B. Smith asked if the Navy is concerned about rebound. Mr. O'Hare said yes, the Navy wants to make sure there is no rebound. If total petroleum hydrocarbons (TPH) are detected, then they would evaluate turning the system back on.

Mr. Humphreys asked if there is a battery system to store the solar power. Mr. O'Hare said yes; however, the system does not run 24 hours a day, 7 days a week. The system runs primarily during daylight hours.

Peter Russell (Russell Resources/City) noted the title on the agenda is incorrect; Building 410 is not part of CAA 9, Building 410 is in IR Site 9. Mr. Robinson said the agenda will be corrected for inclusion in the meeting minutes.

VI. Site 34 Removal Action Completion Report

Mr. McGinnis gave the update on the Site 34 Removal Action Completion Report (RACR) (Attachment C). He noted the draft RACR is under review, with comments due by December 14, 2013. During the review of slide 5, Ms. Galleymore asked about petroleum contamination at the site. Mr. McGinnis said there is some petroleum contamination at the site co-located with CERCLA contamination, and this site is not closed for petroleum contamination.

During the review of slide 7, Skip McIntosh (RAB member) asked what the blue arrow indicates. Mr. McGinnis said it is the groundwater flow. However, he noted groundwater is not an issue at Site 34.

During the review of slide 9, Mr. McGinnis explained that approximately 800 cubic yards of soil were removed and backfilled. Ms. Galleymore asked how deep the excavations were. Mr. McGinnis said the depths of excavation ranged from 1.5 feet to 5 feet below ground surface. He said the contaminants of concern at the site are not very mobile or water soluble.

Mr. McGinnis said when the RACR is complete, Site 34 can be transferred to the City. Mr. B. Smith said he is pleased that the site will be available for unrestricted reuse. Ms. D. Smith provided some comments on the document. She noted the acronym list is incomplete, and noted there is a unit of measure on one of the tables that is not defined. Ms. D. Smith also commented that she is concerned that for Remedial Action Areas 2 and 7 the Navy took an average of the results from the samples across the site instead of reaching the remedial goals or non-detect for each area. Mr. McGinnis said the remedial action was done in accordance with the Record of Decision and makes the site safe for future land users. James Fyfe (DTSC) said he is having Dr. James Polisini read the Site 34 RACR to provide his review of the risk calculations.

Dan Waligora (CDFW) said if the Navy was collecting confirmation samples there should not have been any exceedences. Mr. Robinson said there were some individual exceedences, but the Navy met the remedial action objectives of the project which were to show achievement of remedial goals with 95% confidence, as established by the Record of Decision.

Mr. Humphreys asked if the Navy sampled beneath the building slabs at the site. Mr. Robinson said they did not. Mr. B. Smith asked when the slabs were put down and what was in the soil near the slabs. Mr. Robinson said all of the historical investigation information can be found in

the Remedial Investigation Report. Mr. McGinnis suggested those who want to review the Site 34 Draft RACR should review the following sections: Section 3.4, which talks about the confirmation sampling; Section 4, which is a chronology of remedial action events; Section 5, which is a comparison to the remedial goals; and Appendix B, which is a photo log. Ms. D. Smith said she likes the section that explains the minor deviations from the work plan.

VII. Approval of August 3, 2013, RAB Meeting Minutes/Review Action Items

Mr. Robinson reviewed the status of action items. For item 2, Mr. Robinson checked into the availability of Technical Assistance for Public Participation (TAPP) funds. He said to receive funds the RAB must submit a request and include a justifiable amount in their funding request; there is no further guidance. The Navy will not evaluate how much has been awarded to the Alameda RAB from the TAPP funds in the past, and there is no pool of money with a limit that RAB members need to consider when requesting future funds. This action item is now complete.

Mr. Robinson asked for comments on the draft August 3, 2013, RAB meeting minutes.

Mr. Humphreys made the following comments:

- Page 5, second-to-last paragraph, second line: change "estuary" to "northwest territories and runway areas."
- Page 5, second-to-last paragraph, last two sentences: replace "investigations in the area" with "investigations in the northwest territories." Replace the last sentence with "A majority of the area in question will be transferred to the Veteran's Administration."
- Page 6, second-to-last paragraph, add the following sentence to the end of the paragraph: "Mr. Humphreys said he believes it was used as a road base at Site 2."

Mr. Waligora noted on Page 2, third paragraph under Co-Chair Announcements, eighth line, "Site 2" should be changed to "Site 1".

Ms. D. Smith made the following comments:

- Page 4, second paragraph, after the second sentence insert the following: "Ms. Smith said given that the fans will be installed in an area accessible to the public, isn't there the potential for vandalism that would reduce the effective injection of oxygen, and how will the Navy protect the fans from vandalism. Mr. Robinson said vandalism may occur and will have to be repaired."

Michael John Torrey (RAB member) noted the minutes are 7 pages long, so each page should read "1 of 7" "2 of 7" etc. The page numbers will be corrected.

The minutes were approved with the preceding changes incorporated. The next RAB meeting will be held on Thursday, November 14, 2013.

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. OU-2B University Study e. FOST process	a. Pending b. Pending c. Pending d. Pending e. Pending	a. RAB b. Mr. Humphreys c. RAB d. RAB e. Ms. Tran	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: a. whether liquefaction during major seismic event will bring untreated deep contamination to the soil/groundwater interface b. whether return to anaerobic conditions after cessation of biosparging will result in contaminant concentrations at groundwater/soil interface	Pending	Mr. Humphreys	Mr. Robinson
4. OU-2B Navy to investigate whether liquefaction during major seismic event will bring untreated deep contamination to the soil/groundwater interface	Pending	Mr. Humphreys	Mr. Robinson
5. Navy to locate the Loma Prieta seismic report for AP	Complete	Ms. D. Smith	Mr. Robinson
6. Look for the booms visible from the Bay Trail. Find out who they belong to and ask if they can be removed	Pending	Mr. Sweeney	Mr. West
7. 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

ATTACHMENTS

NAVAL AIR STATION ALAMEDA
RESTORATION ADVISORY BOARD MEETING ATTACHMENTS

A. Naval Air Station Alameda Restoration Advisory Board Meeting Agenda, September 12, 2013 (1 page)

B. Petroleum Update Focus Areas: CAA 011 and Building 410 (19 slides)

C. Remedial Action at Installation Restoration Site 34 (13 slides)

RESTORATION ADVISORY BOARD

NAVAL AIR STATION, ALAMEDA

AGENDA

SEPTEMBER 12, 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)

TIME	SUBJECT	PRESENTER
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 Chair and Co-Chair Nominations	RAB
7:20 – 8:00	Petroleum Update, Focus on CAA9 and CAA11	Navy Representative
8:00 – 8:20	Site 34 Removal Action Completion Report	William McGinnis
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.

Welcome

Alameda RAB Meeting
Petroleum Update
Focus Areas: CAA011 and Building 410

Former Naval Air Station Alameda, Alameda Point, Alameda, California

Restoration Advisory Board (RAB) Meeting
September 12, 2013

1

Program Summary

- The current inventory of the Alameda Point Petroleum Program is 173 open sites or "Features" (known or potential petroleum releases).
- Since 1999, 81 petroleum program sites have received NFA concurrence from the WB and are now closed.
  - 2012 - 12 sites were closed
  - 2013 (as of August 28) - 18 sites have been closed
  - 2014 Plan - submit 25 closure reports
  - 36 site closure summaries are currently at the WB for review

2

Focus Sites

CAA011

- Primarily includes the Building 14 area and the "fuel tank farm" or Area 37
- Biosparging was used from 2003-2004.
- Excavation and dual vacuum extraction (DVE) for product off the southwest corner of Building 14.

Building 410

- Located in the southeastern part of Alameda Point.
- Dual Vapor Extraction was used from 2005-2006 and again in 2011 to remove free product.

3

Corrective Action Area-11

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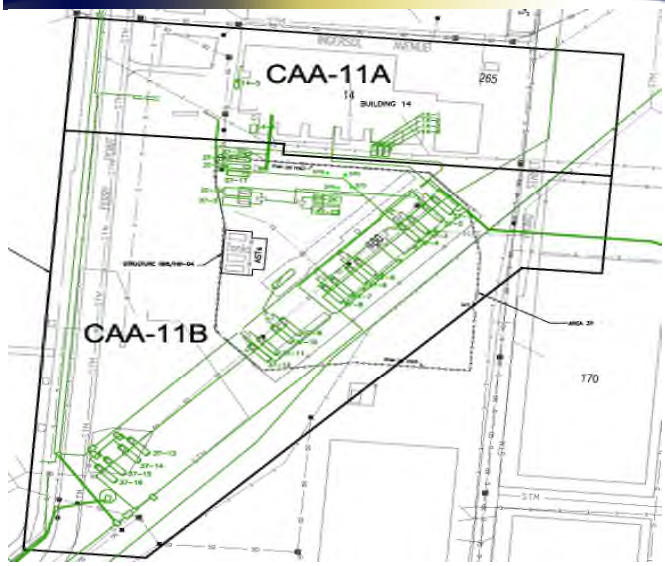
CAA 11 Fueling Features



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CAA 11 Background

- Area 37 petroleum features (i.e., tanks, fuel piping, vaults) removed largely in 1998-1999.
- Biosparging in Area 37 and Ferry Point in 2003-2004; O_2 injection in southwest corner in 2005-2006.
- Off southwest corner of Building 14, excavations in 2002 and 2004, and DVE in 2002 to 2006, to address floating "10/10" oil.
- Select wells at CAA 11 are part of Site-Wide Petroleum Groundwater Monitoring Program.
- Continued investigation of CAA 11 being pursued under the petroleum Data Gap Sampling efforts of Fall 2011 and Summer/Fall 2013.

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Area 37 Biosparge System

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Excavation SW of Building 14

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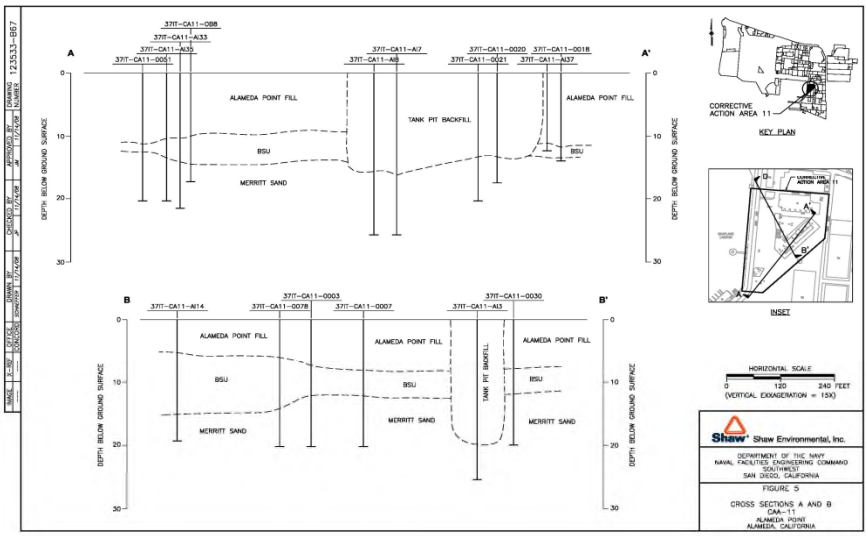
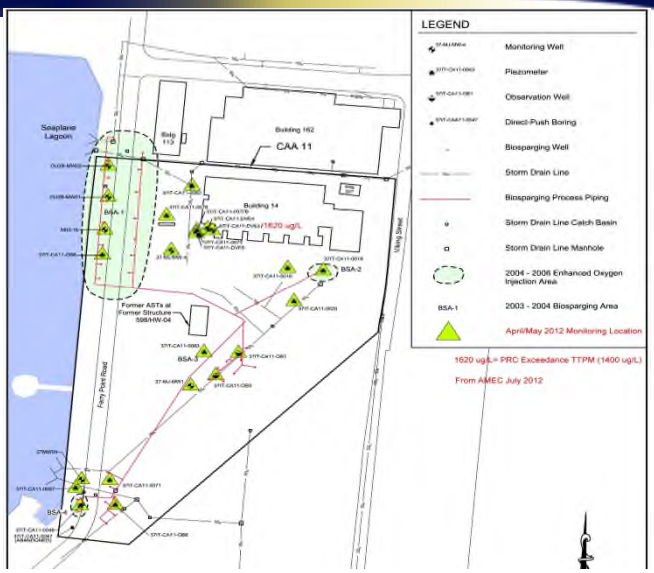
Shallow Subsurface Materials



TPH in Groundwater

2012 GW PRC Exceedances



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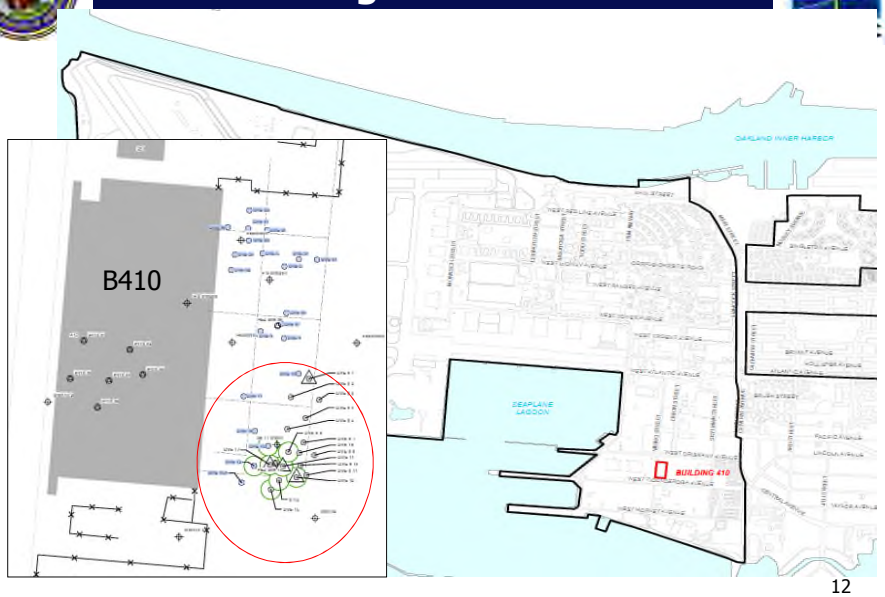
Building 410 Location



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Background

- B410 is located in the southeastern part of Alameda Point.
- Dual Vapor Extraction was used from 2005-2006 and again in 2011 to remove free product.
- Monitoring of groundwater and corrective action at Building 410 are currently managed under the Petroleum Program.
- Air Sparging (AS) and Soil Vapor Extraction (SVE) was selected as the corrective action.

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Overview of Building 410 System

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Air Sparging / Soil Vapor Extraction

- "Air Sparging" involves forcing air into the water table. This process remediates the groundwater both by volatilizing contaminants and by increasing the dissolved oxygen concentration.
- Soil Vapor Extraction (SVE) withdraws volatilized contaminates from vadose zone soil.
- The SVE process increases the soil gas oxygen concentration by drawing in "clean" air from surrounding areas and from the atmosphere.

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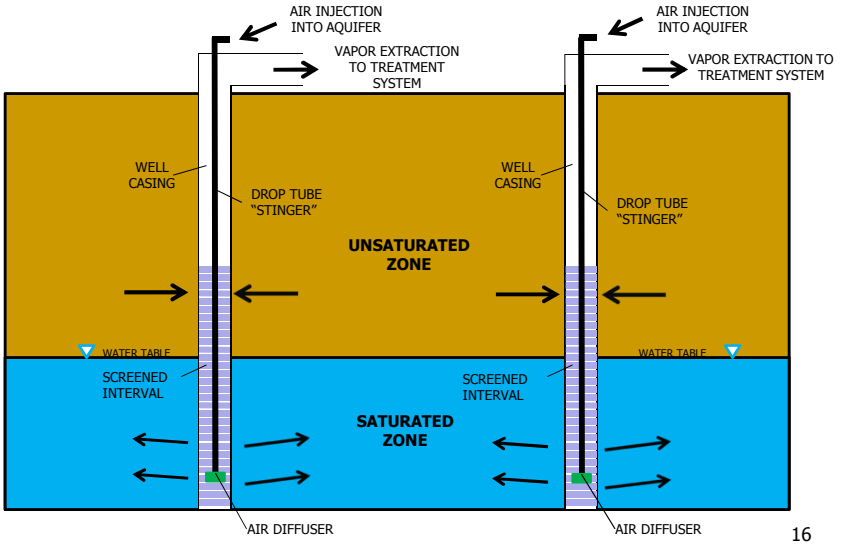
Air Sparging / Soil Vapor Extraction



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Air Sparging / Soil Vapor Extraction

- Solar power was a good fit for the B410 system.
- Existing wells were used.
- Pressurized air is forced out of the bottom of the "stinger" and through the diffuser for bubble generation.
- Air/oxygen diffuses out through the well screen and into the surrounding soil.
- Granulated activated carbon (GAC) is used to treat the extracted vapor.

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System Components

18

Next Steps

- September to October 2013 – Continue Operation and Maintenance of AS/SVE System
- October 2013 – Conduct groundwater sampling, evaluate results, and continue system operation
- Expect treatment to continue through March 2014

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WELCOME

Remedial Action at Installation Restoration Site 34 Alameda Point, California

Restoration Advisory Board
September 12, 2013

1

Presentation Outline

- Site Location, Description, Background, and Milestones
- Remedial Action Overview
- Remedial Action Field Activities
- Confirmation Sample Results
- Future of Site 34
- Questions

2

IR Site 34 Location

Located in north-central portion of Alameda Point, south of Oakland Inner Harbor

3

IR Site 34 Description

- 4.18 acre, partially paved, formerly developed, flat open space
- Historically used to maintain base equipment (painting, metal shops, sandblasting)
- Included buildings, ASTs, transformers, and an aviation fuel line

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IR Site 34 Timeline

- 1994 – 2007 Previous Investigations
  - Environmental Baseline Survey
  - Remedial Investigation
  - Feasibility Study
- 2011 Record of Decision
- 2012 – 2013 Remedial Design
- 2013 – Remedial Action
- 2013 – Remedial Action Completion Report

5

Remedial Action Overview

- Remedial Action at Site 34 consisted of 14 Remedial Action Areas (RAAs)
- Excavation was performed at each RAA as prescribed in the Remedial Design
- Samples were collected on the sidewalls and bottoms of the excavations
- Sample results were compared to remediation goals (RGs)

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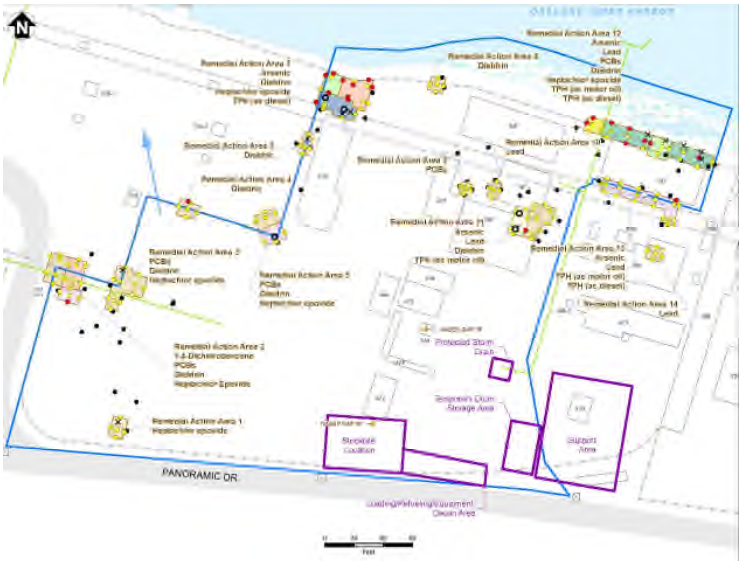
Remedial Action Areas



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Remedial Action Overview

- Over excavation was performed as required
- Excavated soil was characterized for disposal and transported to the disposal facility
- The site was restored and all equipment demobilized

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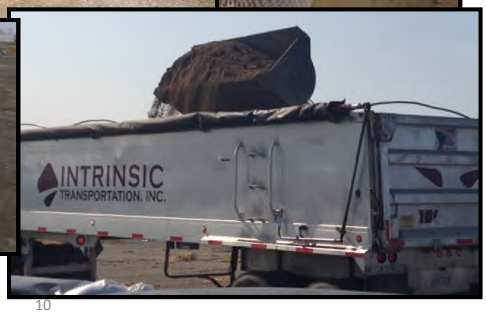
Remedial Action

- Primary Components:
  - Soil excavation
  - Confirmation Sampling

9

Remedial Action (continued)

- Transportation and Disposal
- Site Restoration



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Confirmation Sample Results

- 169 confirmation samples were collected from the sidewalls and bottoms of the excavations
- 7 RAAs required over-excavation during the course of the project, based on sample results
- Soil removal continued until project goals were achieved
- Following remedial action, backfilling and site restoration activities were performed

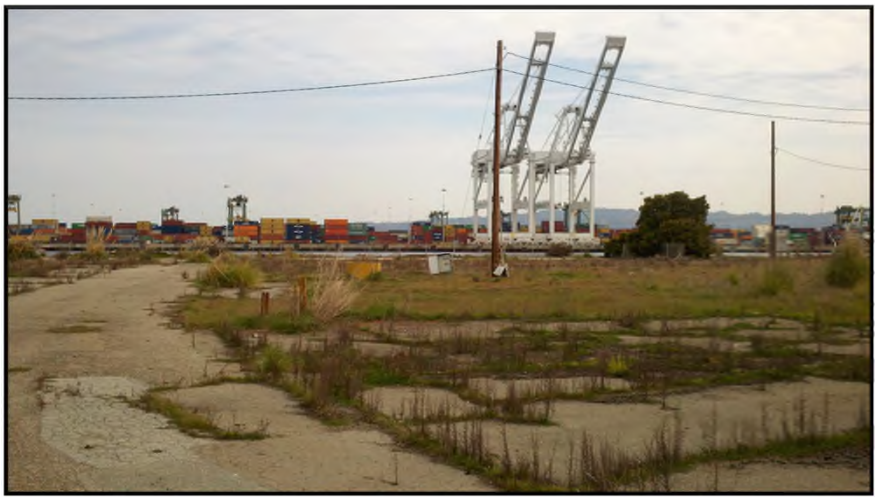
11

The Future of Site 34

- IR 34 is part of the Northwest Territories
- The Northwest Territories are designated as public open space and parks (recreational)
- IR 34 is scheduled for transfer to the City of Alameda in the Phase II Transfer

12

QUESTIONS?



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