

BEI-7526-0065-0509

AR_N00236_003225
ALAMEDA POINT
SSIC NO. 5090.3.A

**SUMMARY OF DATA GAP
GROUNDWATER SAMPLING RESULTS
IR SITE 32**



BECHTEL ENVIRONMENTAL, INC.

CLEAN 3 TRANSMITTAL/DELIVERABLE RECEIPT

Contract No. N-68711-95-D-7526

Document Control No. BEI-7526-0065-0509

File Code. 0214

TO: Contracting Officer
NAVFAC Southwest
Ms. Graciela R. Steinway, AQE.GS
1220 Pacific Highway
San Diego, CA 92132-5190

DATE: May 22, 2008
CTO #: 0065
LOCATION: Alameda, California

FROM: [Signature]
Janet L. Argyres, Project Manager

DESCRIPTION: Summary of Data Gap Groundwater Sampling Results, IR Site 32
Alameda Point - Dated May 2008

TYPE: Contract Deliverable (Cost) CTO Deliverable (Technical) X Other

VERSION: Final REVISION #: 0
(e.g., Draft, Draft Final, Final, etc.)

ADMIN RECORD: Yes X No US EPA Category Confidential
(PM to Identify)

SCHEDULED DELIVERY DATE: 5/22/08 ACTUAL DELIVERY DATE: 5/22/08

NUMBER OF COPIES SUBMITTED: 10/7C/6E

COPIES TO (Include Name, Navy Mail Code, and No. of Copies):

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CLEAN 3 Program
Bechtel Job No. 23818
Contract No. N68711-95-D-7526
File Code: 0214

IN REPLY REFERENCE: BEI-7526-0065-0509

May 22, 2008

Contracting Officer
NAVFAC Southwest
Ms. Graciela R. Steinway, AQE.GS
1220 Pacific Highway
San Diego, CA 92132-5190

Subject: Summary of Data Gap Groundwater Sampling Results
IR Site 32
Alameda Point, Alameda, California

Dear Ms. Steinway:

Enclosed, please find 6 copies of a Summary of Data Gap Groundwater Sampling Results for IR Site 32, Alameda Point, Alameda, California, dated May 2008 that is an attachment to a cover letter prepared by the Navy. As directed by the Navy RPM, we are concurrently transmitting copies to Ms. Anna-Marie Cook of U.S. EPA; Ms. Dot Lofstrom of DTSC; and Mr. John West of the RWQCB. In addition, we are forwarding copies on behalf of the Navy to the parties listed on the Navy's letter and the attached transmittal sheet.

If you have any questions, please contact Carol Yamane, CTOL, at (415) 768-3385 or me at (415) 768-9917.

Very truly yours,

Janet L. Argyres
Project Manager

Enclosure

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SUMMARY OF DATA GAP SAMPLING GROUNDWATER RESULTS, IR SITE 32

This summary describes the results of data gap groundwater sampling conducted in December 2007 at Installation Restoration (IR) Site 32, Alameda Point, Alameda, California. Sampling was performed by SulTech in accordance with the final Sampling and Analysis Plan (SulTech 2007). Laboratory reports and field documentation will be included in a separate, complete data package submittal.

SITE BACKGROUND

IR Site 32, referred to as the Northwestern Ordnance Storage Area, is located in the northwestern area of Alameda Point, adjacent to the Oakland Inner Harbor (Figure 1). Despite its name, no historical information indicates that ordnance was stored at the site. IR Site 32 is approximately 5.8 acres and most of the site consists of open space covered with asphalt, gravel, weeds, and brush. A 75-foot-wide concrete taxiway and two railroad lines cross the northern portion of the site. Two buildings (Buildings 594 and 82) are located within a fenced compound in the southern portion of the site (Figure 2). Two 1,000-gallon fiberglass underground storage tanks (594-1 and 594-2) were formerly located north of Building 594, and were used to store diesel fuel and gasoline, respectively. The two tanks were removed in 1994 and the soil around the tanks was excavated and backfilled. Although Building 594 was originally built to be used as a storage and repair shop for underwater weapons, there is no documentation that it was used as such. No documented releases of hazardous substances have occurred in site buildings (Buildings 594 and 82) or elsewhere at IR Site 32. However, the open space in the eastern portion of the site was used for storage of equipment, vehicles, scrap, and aircraft prior to 1953.

IR Site 32 was added to the Comprehensive Environmental Response, Compensation, and Liability (CERCLA) Program in January 2003, based on sampling results from previous investigations that indicated the presence of volatile organic compounds (VOCs) in groundwater at concentrations above drinking water maximum contaminant levels. A final remedial investigation (RI) report and final feasibility study (FS) were issued for IR Site 32 in April 2007 and January 2008, respectively (BEI 2007, 2008). Figures 2 and 3 show groundwater sampling locations and distribution of chemicals of concern, respectively, for samples collected during and prior to the RI.

As stated in the Final Determination of the Beneficial Uses of Groundwater Report prepared by Tetra Tech EM Inc. for Alameda Point in 2000 (TtEMI 2000), the groundwater in the first water-bearing zone underlying the western region of Alameda Point in the vicinity of IR Site 32 is a Class II aquifer. The beneficial use evaluation states that for purposes of CERCLA cleanup decisions, groundwater in the western region of Alameda Point is unlikely to be used as a potential drinking water source. In a July 2003 letter to the Navy, the Water Board concurred with this conclusion and found that groundwater at Alameda Point west of Saratoga Street meets the municipal and domestic water supply exemption criteria in SWRCB Res. 88-63, Sources of Drinking Water, and Water Board Res. 89-39 (Water Board 2003).

PURPOSE AND SCOPE

Groundwater samples at IR Site 32 were collected from monitoring wells to verify previous groundwater sampling results and to obtain additional information to support remedial decisions. The first round of groundwater samples was collected after installation of five wells (IR32-MW-01 through -05; Figure 2) in February 2006 during the RI. A second round of groundwater samples was collected as part of data gap sampling in December 2007 to verify concentrations of chlorobenzene, trichloroethene (TCE), and vinyl chloride. These VOCs were risk drivers in the human health risk assessment conducted during the RI for a hypothetical resident inhaling vapors that may migrate from groundwater to indoor air. Samples were also analyzed for natural attenuation parameters (including dissolved gases), pH, and total dissolved solids.

In addition, a sixth well located at IR Site 32 (M-005A; Figure 2) was sampled subsequent to the RI as part of the Basewide Groundwater Monitoring Program (BGMP) in March 2007. Results for this well were presented in the Spring 2007 BGMP Report (ITSI 2007) and are also included in this summary.

RESULTS

Both rounds of groundwater results (February 2006 and December 2007) for chlorobenzene, TCE, and vinyl chloride from samples collected at the five monitoring wells are shown on Figure 4 and are summarized in Table 1. Results for the two most recent rounds (October 2006 and March 2007) of samples collected from well M-005A during the BGMP are also included on Figure 4 and in Table 1. Summarized below are the results of the most recent groundwater sampling from the IR Site 32 monitoring wells.

- Chlorobenzene was detected at 4.5 µg/L in one sample collected from well IR32-MW-04.
- TCE was detected at 4.4 and 4.8 µg/L in the primary and duplicate samples, respectively, collected from one well (IR32-MW-03).
- Vinyl chloride was detected at 0.4 J (estimated concentration) to 0.9 µg/L in four samples collected from four wells (IR32-MW-02, -04, and -05; and MW-005A).

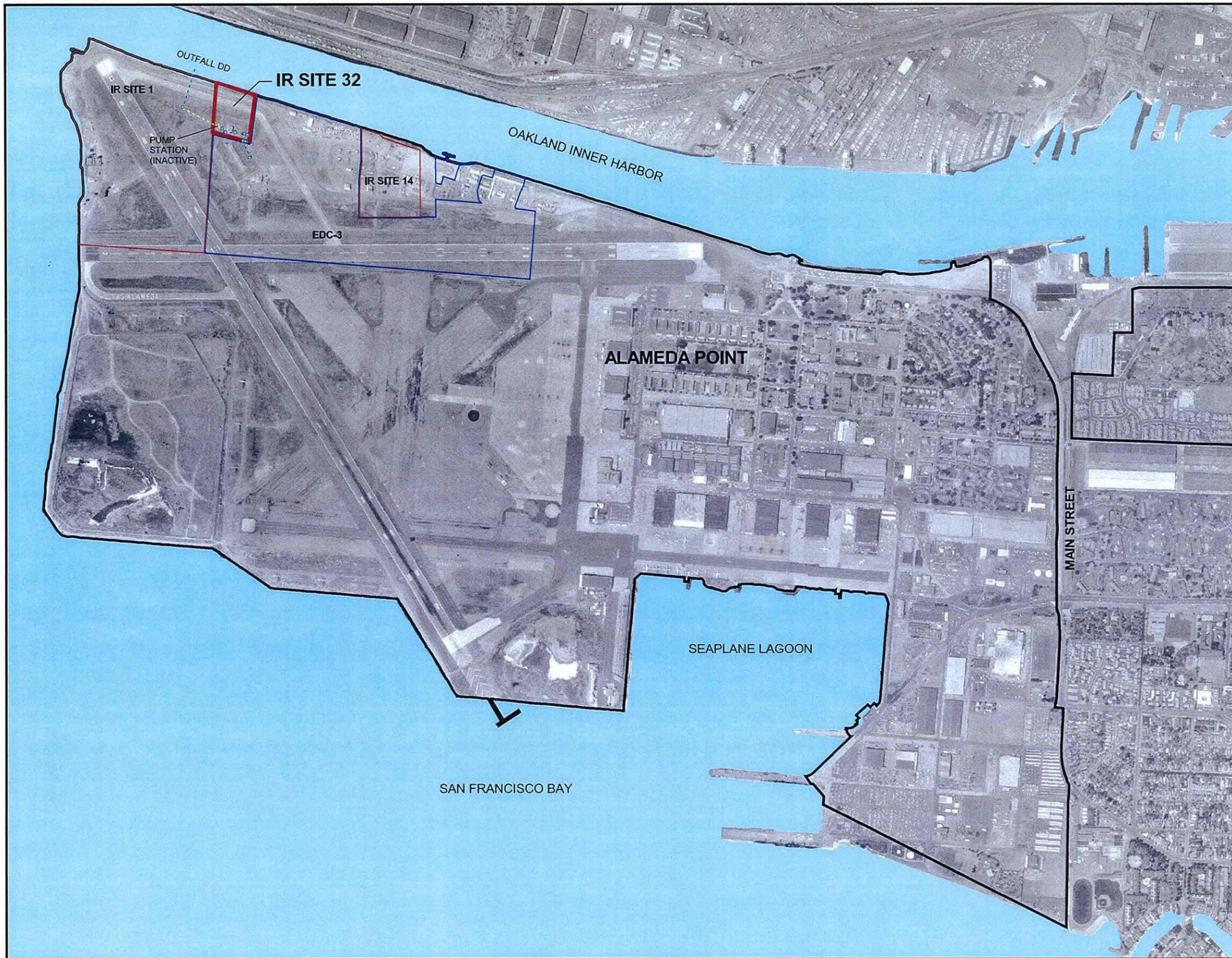
Concentrations reported in the second round of monitoring well samples were all lower than detections in the first round of sampling. The most notable difference was a reduction in the chlorobenzene concentration in well IR32-MW-04, which decreased from 290 to 4.5 µg/L. Vinyl chloride concentrations decreased from 11 to 0.6 µg/L in well IR32-MW-02, and similarly, decreased from 6.2 to 0.5J µg/L in well IR32-MW-04. Other concentrations of vinyl chloride and concentrations of TCE were similar to the previous sampling results. Figure 5 illustrates the decreased extent of chlorobenzene and vinyl chloride in December 2007 compared to February 2006 data.

Results for natural attenuation parameters (alkalinity, nitrate, nitrite, sulfate, sulfide, and dissolved gases [ethane, ethane, and methane]), pH, and total dissolved solids are summarized in Table 2.

Data Gap Sampling Results

REFERENCES

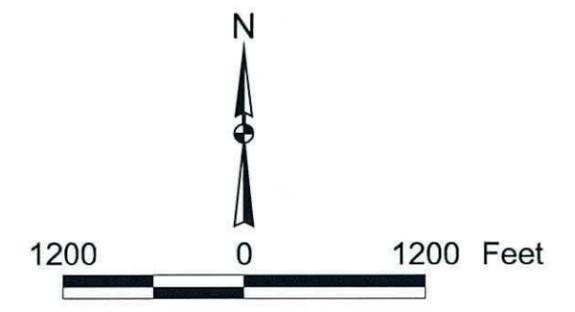
- Bechtel Environmental, Inc., 2007. Final Remedial Investigation Report for IR Site 32, Northwestern Ordnance Storage Area, Alameda Point, Alameda, California. April.
- Bechtel Environmental, Inc., 2008. Final Feasibility Study Report, IR Site 32, Northwestern Ordnance Storage Area, Alameda Point, Alameda, California. January.
- BEI. *See* Bechtel Environmental, Inc.
- California Regional Water Quality Control Board San Francisco Bay Region. 2003. Letter to Navy concurring that groundwater meets the exemption criteria in the State Water Resources Control Board Source of Drinking Water Policy Resolution 88-63, and San Francisco Bay Regional Water Quality Control Board Resolution 89-39 for groundwater west of Saratoga Street at Alameda Point, City of Alameda, Alameda County. July 21.
- Innovative Technical Solutions, Inc. 2007. Draft Spring 2007 Alameda Basewide Annual Groundwater Monitoring Report. Alameda Point, Alameda. September.
- ITSI. *See* Innovative Technical Solutions, Inc.
- SulTech. 2007. Final Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan) to Address Data Gaps at Installation Restoration Site 25 (Soil at Kollman Circle), Site 32 (Groundwater), and Site 35 (Groundwater in Areas of Concern 1 and 23 and Soil in Area of Concern 6), and IR Site 25, Alameda Point, Alameda. December 12.
- Tetra Tech EM Inc. 2000. Determination of the Beneficial Uses of Groundwater. Prepared for the U.S Department of the Navy, Southwest Division Naval Facilities Engineering Command, San Bruno, California. December 4.
- TtEMI. *See* Tetra Tech EM Inc.
- Water Board. *See* California Regional Water Quality Control Board San Francisco Bay Region.



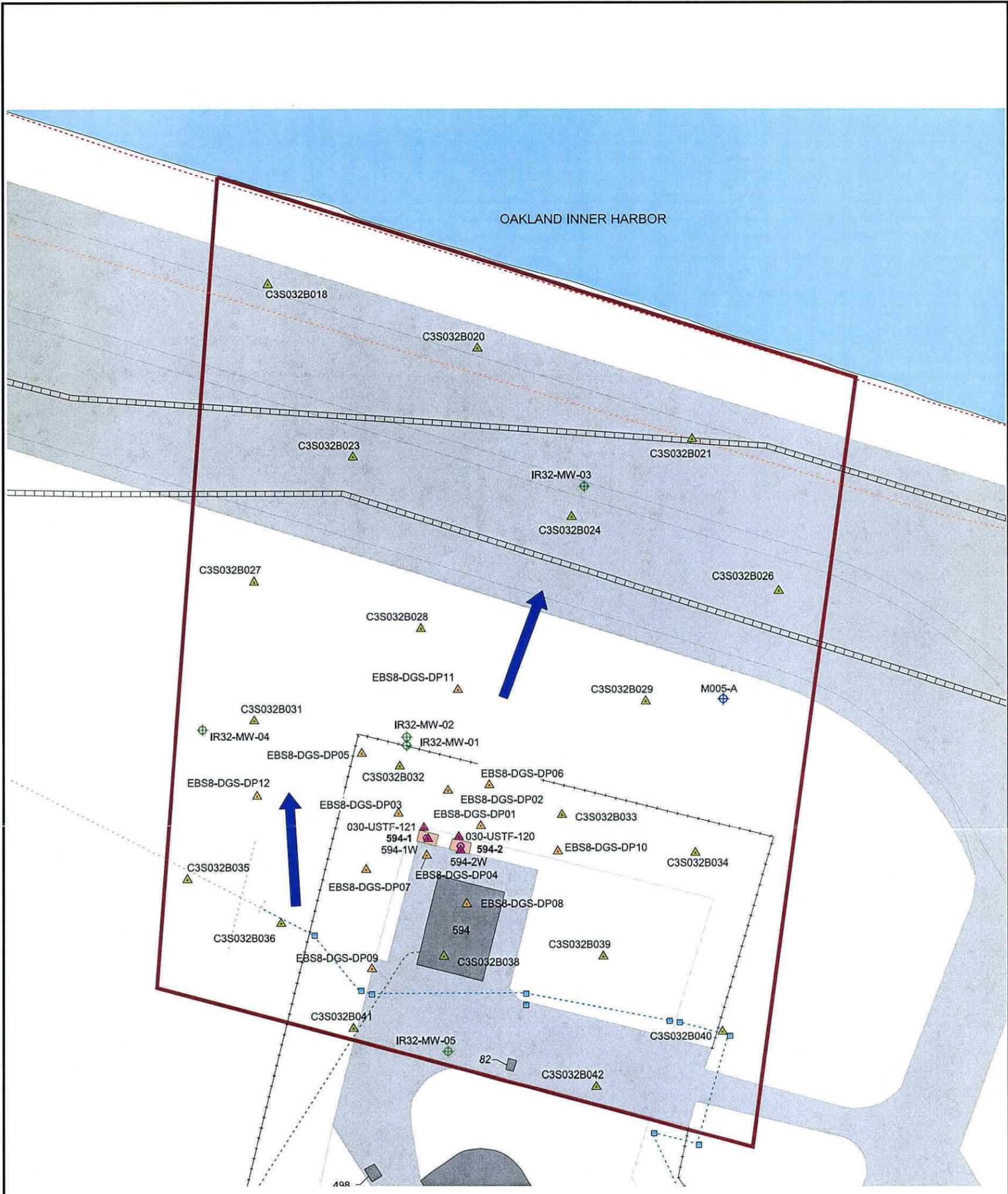
LEGEND

-  IR SITE 32 BOUNDARY
-  OTHER NEARBY IR SITE BOUNDARIES
-  TRANSFER PARCEL EDC-3 BOUNDARY
-  NAVY ONSHORE PROPERTY BOUNDARIES
-  WATER
-  CATCH BASIN
-  STORM DRAIN
-  DRAINAGE DITCH

NOTES:
 EDC – ECONOMIC DEVELOPMENT CONVEYANCE
 IR – INSTALLATION RESTORATION (PROGRAM)



IR Site 32 Letter Report
Figure 1
 Site Location Map
 Alameda, California



LEGEND

- 2005 RI DISCRETE GROUNDWATER SAMPLING LOCATION
- OU-1 AND OU-2 DATA GAP INVESTIGATION DISCRETE GROUNDWATER SAMPLING LOCATION
- UST REMOVAL AND POST-REMOVAL INVESTIGATIONS DISCRETE GROUNDWATER SAMPLING LOCATION
- 2005 RI MONITORING WELL GROUNDWATER SAMPLING LOCATION
- BASEWIDE GROUNDWATER MONITORING PROGRAM MONITORING WELL GROUNDWATER SAMPLING LOCATION
- GROUNDWATER FLOW DIRECTION (FIRST WATER-BEARING ZONE)
- 500 BUILDING
- ROAD OR PAVED AREA
- WATER
- EXCAVATION AREA (FORMER)
- LOCATION OF FORMER UST WITH TANK ID
- IR SITE 32 BOUNDARY
- FENCELINE
- APPROXIMATE LOCATION OF FORMER RAILROAD

- CATCH BASIN (PRESENT)
- STORM DRAIN (PRESENT)
- DRAINAGE DITCH (PRESENT)
- SANITARY SEWER LINE (PRESENT)
- ELECTRIC LINE (INACTIVE)
- COMMUNICATION LINE (INACTIVE)

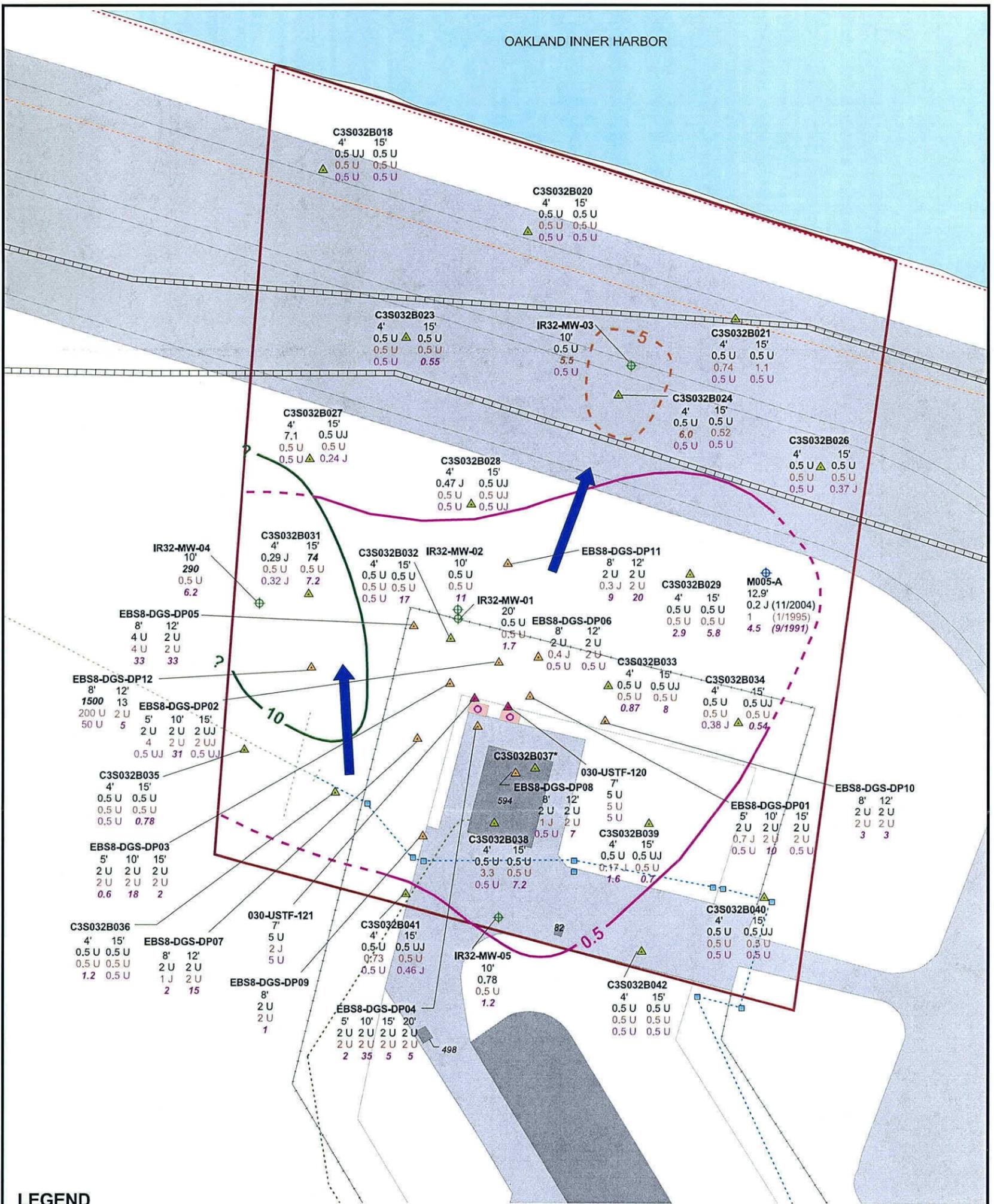
NOTES:

- IR – INSTALLATION RESTORATION (PROGRAM)
- OU – OPERABLE UNIT
- RI – REMEDIAL INVESTIGATION
- UST – UNDERGROUND STORAGE TANK



<p>IR Site 32 Letter Report Figure 2 Site Features and Groundwater Sampling Locations</p>	
<p>Alameda, California</p>	
Bechtel Environmental, Inc. CLEAN 3 Program	<p>Date: 4/9/08 File No.: 065L16409 Job No.: 23818-065 Rev No.: A</p>

OAKLAND INNER HARBOR



LEGEND

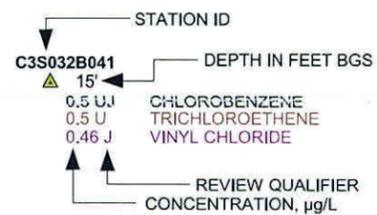
- ▲ 2005 RI DISCRETE GROUNDWATER SAMPLING LOCATION
- ▲ OU-1 AND OU-2 DATA GAP INVESTIGATION DISCRETE GROUNDWATER SAMPLING LOCATION
- ▲ UST REMOVAL AND POST-REMOVAL INVESTIGATIONS DISCRETE GROUNDWATER SAMPLING LOCATION
- ⊕ 2005 RI MONITORING WELL GROUNDWATER SAMPLING LOCATION
- ⊕ BASEWIDE GROUNDWATER MONITORING PROGRAM MONITORING WELL GROUNDWATER SAMPLING LOCATION
- IR SITE 32 BOUNDARY
- FENCELINE
- APPROXIMATE LOCATION OF FORMER RAILROAD
- 500 BUILDING
- ROAD OR PAVED AREA
- WATER
- EXCAVATION AREA (FORMER)
- LOCATION OF FORMER UST
- ← GROUNDWATER FLOW DIRECTION (FIRST WATER-BEARING ZONE)
- CHLOROBENZENE CONCENTRATION CONTOUR; QUERIED WHERE UNCERTAIN
- VINYL CHLORIDE CONCENTRATION CONTOUR; DASHED WHERE APPROXIMATE
- ESTIMATED TCE CONCENTRATION CONTOUR
- CATCH BASIN (PRESENT)
- STORM DRAIN (PRESENT)
- DRAINAGE DITCH (PRESENT)
- SANITARY SEWER LINE (PRESENT)
- ELECTRIC LINE (INACTIVE)
- COMMUNICATION LINE (INACTIVE)

NOTES:

*UNABLE TO COLLECT SAMPLE

BGS – BELOW GROUND SURFACE
 IR – INSTALLATION RESTORATION (PROGRAM)
 J – ANALYTE CONCENTRATION IS ESTIMATED
 µg/L – MICROGRAMS PER LITER
 MCL – MAXIMUM CONTAMINANT LIMIT
 OU – OPERABLE UNIT
 RI – REMEDIAL INVESTIGATION
 TCE – TRICHLOROETHENE
 U – NOT DETECTED ABOVE LABORATORY REPORTING LIMITS
 UJ – NOT DETECTED ABOVE LABORATORY REPORTING LIMITS, ANALYTE CONCENTRATION IS ESTIMATED
 UST – UNDERGROUND STORAGE TANK

ANALYTES WITH REPORTED CONCENTRATIONS EXCEEDING CALIFORNIA MCLs ARE SHOWN IN **BOLD ITALICS**



IR Site 32 Letter Report

Figure 3

Previous Results for Chlorobenzene, TCE, and Vinyl Chloride in Groundwater

Alameda, California



Bechtel Environmental, Inc.
 CLEAN 3 Program

Date: 5/21/08
 File No.: 065A16410
 Job No.: 23818-065
 Rev No.: E

OAKLAND INNER HARBOR

IR32-MW-03	Feb-06	Feb-06 (FD)	Dec-07	Dec-07 (FD)
CHLOROBENZENE	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5.1	5.5	4.4	4.8
VINYL CHLORIDE	0.5 U	0.5 U	0.5 U	0.5 U

IR32-MW-02	Feb-06	Dec-07
CHLOROBENZENE	0.5 U	0.5 U
TRICHLOROETHENE	0.5 U	0.5 U
VINYL CHLORIDE	11	0.6

IR32-MW-04	Feb-06	Dec-07
CHLOROBENZENE	290	4.5
TRICHLOROETHENE	0.5 U	0.5 U
VINYL CHLORIDE	6.2	0.5 J

M-005A	Oct-06	Mar-07
CHLOROBENZENE	0.5 U	0.5 U
TRICHLOROETHENE	0.5 U	0.5 U
VINYL CHLORIDE	0.5	0.4 J

IR32-MW-01	Feb-06	Dec-07
CHLOROBENZENE	0.5 U	1.0 U
TRICHLOROETHENE	0.5 U	1.0 U
VINYL CHLORIDE	1.7	1.0 U

IR32-MW-05	Feb-06	Dec-07
CHLOROBENZENE	0.78	0.5 U
TRICHLOROETHENE	0.5 U	0.5 U
VINYL CHLORIDE	1.2	0.9

IR32-MW-05	Feb-06	Dec-07
CHLOROBENZENE	0.78	0.5 U
TRICHLOROETHENE	0.5 U	0.5 U
VINYL CHLORIDE	1.2	0.9

LEGEND

- 2005 RI MONITORING WELL GROUNDWATER SAMPLING LOCATION
- BASEWISE GROUNDWATER MONITORING PROGRAM MONITORING WELL GROUNDWATER SAMPLING LOCATION
- IR SITE 32 BOUNDARY
- FENCELINE
- CATCH BASIN (PRESENT)
- STORM DRAIN (PRESENT)
- DRAINAGE DITCH (PRESENT)
- SANITARY SEWER LINE (PRESENT)
- ELECTRIC LINE (INACTIVE)
- COMMUNICATION LINE (INACTIVE)
- APPROXIMATE LOCATION OF FORMER RAILROAD
- 500 BUILDING
- ROAD OR PAVED AREA
- WATER
- EXCAVATION AREA (FORMER)
- LOCATION OF FORMER UST
- GROUNDWATER FLOW DIRECTION (FIRST WATER-BEARING ZONE)

NOTES:

- FD – FIELD DUPLICATE
- IR – INSTALLATION RESTORATION (PROGRAM)
- J – ANALYTE CONCENTRATION IS ESTIMATED
- µg/L – MICROGRAMS PER LITER
- RI – REMEDIAL INVESTIGATION
- TCE – TRICHLOROETHENE
- U – NOT DETECTED ABOVE LABORATORY REPORTING LIMITS
- UST – UNDERGROUND STORAGE TANK

STATION ID DATE SAMPLE COLLECTED

ANALYTE REVIEW QUALIFIER CONCENTRATION, µg/L

75 0 75 Feet



IR Site 32 Letter Report

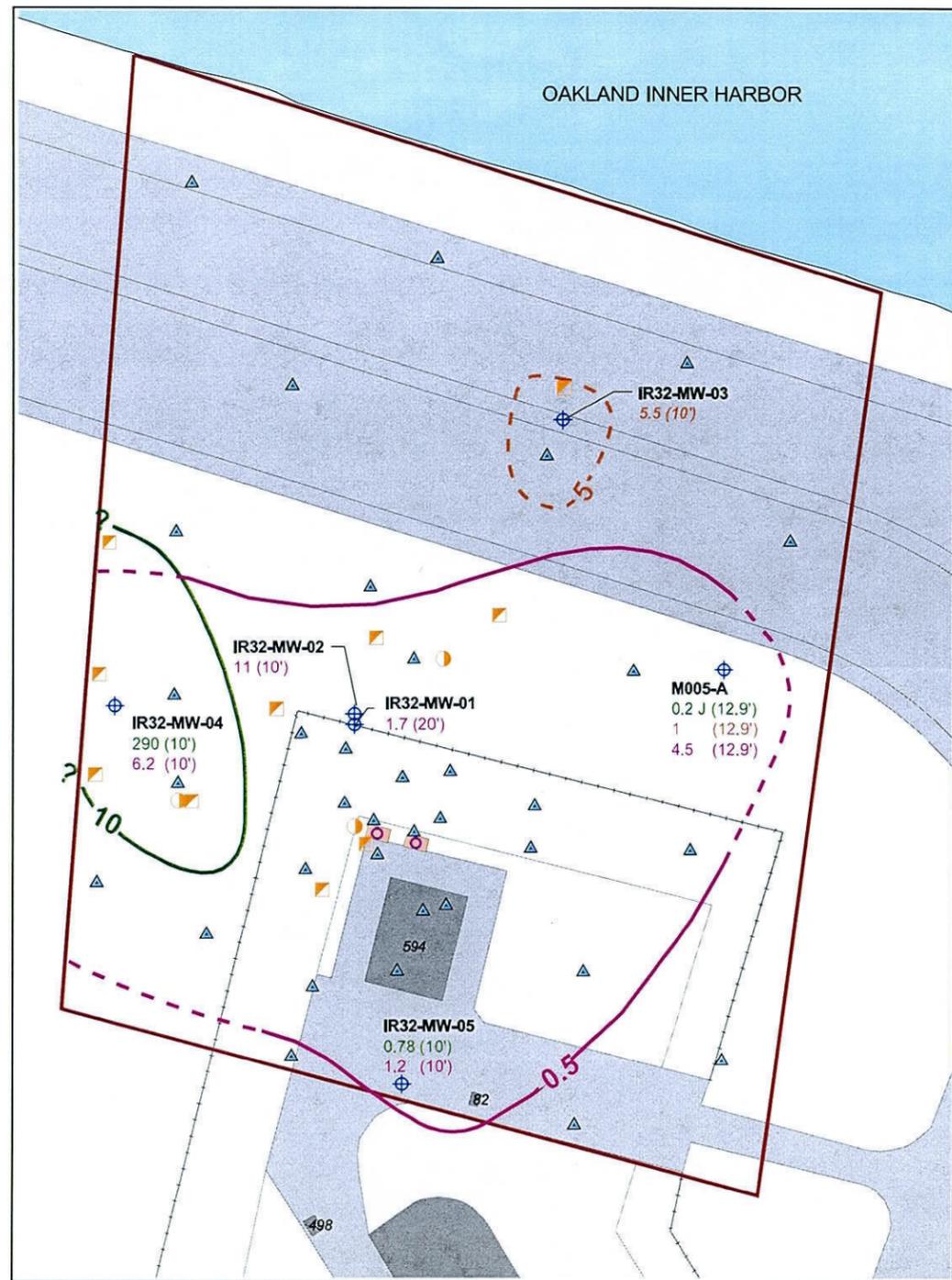
Figure 4

Data Gap Sampling Results for Chlorobenzene, TCE, and Vinyl Chloride in Groundwater

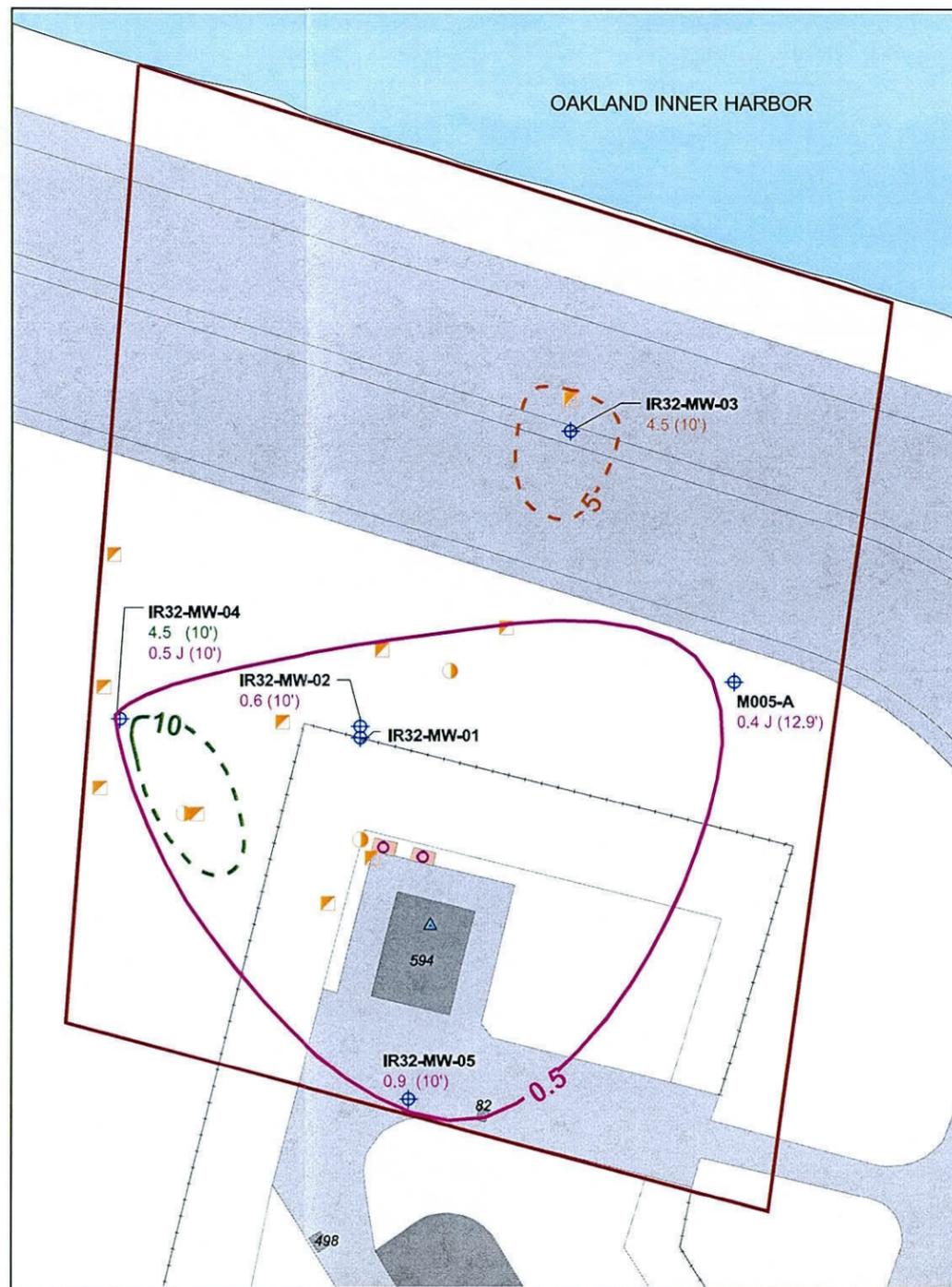
Alameda, California

Bechtel Environmental, Inc.
CLEAN 3 Program

Date: 5/1/08
File No.: 065A16411
Job No.: 23818-065
Rev No.: C



FEBRUARY 2006



DECEMBER 2007

LEGEND

- ▲ DISCRETE GROUNDWATER SAMPLING LOCATION
- ⊕ MONITORING WELL GROUNDWATER SAMPLING LOCATION
- ▭ IR SITE 32 BOUNDARY
- ▭ FENCELINE
- 500 BUILDING
- ▭ ROAD OR PAVED AREA
- ▭ WATER
- ▭ EXCAVATION AREA (FORMER)
- LOCATION OF FORMER UST
- ▭ INITIAL INVESTIGATION BORING LOCATION PRESENTED IN THE FS
- MONITORING WELL LOCATION PRESENTED IN THE FS
- ▭ CHLOROBENZENE CONCENTRATION CONTOUR; DASHED WHERE APPROXIMATE, QUERIED WHERE UNCERTAIN
- ▭ VINYL CHLORIDE CONCENTRATION CONTOUR; DASHED WHERE APPROXIMATE
- ▭ ESTIMATED TCE CONCENTRATION CONTOUR

STATION ID

⊕ M005-A
 0.2 J (12.9')
 1 (12.9')
 4.5 (12.9')

↑ DEPTH OF SAMPLE IN FEET BGS
 ↑ REVIEW QUALIFIER
 ↑ MAXIMUM DETECTED CONCENTRATION AT LOCATION, µg/L

- NOTES:
- BGS – BELOW GROUND SURFACE
 - FS – FEASIBILITY STUDY
 - IC – INSTITUTIONAL CONTROL
 - IR – INSTALLATION RESTORATION (PROGRAM)
 - J – ANALYTE CONCENTRATION IS ESTIMATED
 - µg/L – MICROGRAMS PER LITER
 - TCE – TRICHLOROETHENE
 - UST – UNDERGROUND STORAGE TANK
- ANALYTES WITH REPORTED CONCENTRATIONS EXCEEDING IC TERMINATION CRITERIA ARE SHOWN IN **BOLD ITALICS**

IC TERMINATION CRITERION	
CHLOROBENZENE	700 µg/L
TRICHLOROETHENE	5 µg/L
VINYL CHLORIDE	15 µg/L



IR Site 32 Letter Report
Figure 5
 Interpreted Extent of Chlorobenzene, TCE,
 and Vinyl Chloride in Groundwater

Alameda, California

Bechtel Environmental, Inc. CLEAN 3 Program	Date: 5/8/08 File No.: 065L16472 Job No.: 23818-065 Rev No.: B
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Table 1
Results for Chlorobenzene, TCE, and Vinyl Chloride in Groundwater Samples
Collected from Monitoring Wells

Well	Analyte	Round 1	Round 2
		February 2006 Concentration (µg/L)	December 2007 Concentration (µg/L)
IR32-MW-01	chlorobenzene	0.5 U	1.0 U
	trichloroethene	0.5 U	1.0 U
	vinyl chloride	1.7	1.0 U
IR32-MW-02	chlorobenzene	0.5 U	0.5 U
	trichloroethene	0.5 U	0.5 U
	vinyl chloride	11	0.6
IR32-MW-03	chlorobenzene	0.5 U/0.5 U	0.5 U/0.5 U
	trichloroethene	5.1/5.5¹	4.4/4.8¹
	vinyl chloride	0.5 U/0.5 U	0.5 U/0.5 U
IR32-MW-04	chlorobenzene	290	4.5
	trichloroethene	0.5 U	0.5 U
	vinyl chloride	6.2	0.5 J
IR32-MW-05	chlorobenzene	0.78	0.5 U
	trichloroethene	0.5 U	0.5 U
	vinyl chloride	1.2	0.9
M-005A ²		October 2006	March 2007
	chlorobenzene	0.5 U	0.5 U
	trichloroethene	0.5 U	0.5 U
	vinyl chloride	0.5	0.4 J

Review Qualifiers:

J – estimated value

U – the analyte was not detected above the stated detection limit

Notes:

¹ results are shown for the "primary sample/duplicate sample"

² Sampled and reported as part of the Basewide Groundwater Monitoring Program;

only results for the two most recent sampling rounds are shown

Detected concentrations are shown in **bold**

Acronym/Abbreviation:

µg/L – micrograms per liter

Table 2
Results for Natural Attenuation Parameters, pH, and Total Dissolved Solids

Well ID	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Bicarbonate Alkalinity (mg/L)	Carbonate Alkalinity (mg/L)	Hydroxide Alkalinity (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	Total Alkalinity (mg/L)	Total Organic Carbon (mg/L)	pH	Total Dissolved Solids (mg/L)
IR32-MW-01	5 U	5 U	6,300	1,300	4 U	4 U	0.05 U	0.05 U	26	0.23	1,300	22	8.2	2,740
IR32-MW-02	5 U	5 U	26	370	4 U	4 U	0.69	0.1 U	110	0.04 U	370	5.4	7.6	690
IR32-MW-03	5 U	5 U	96	370	4 U	4 U	0.05 U	0.05 U	51	0.04 U	370	4.3	7.3	540
IR32-MW-03 ¹	5 U	5 U	100	380	4 U	4 U	0.05 U	0.05 U	51	0.04 U	380	4.3	7.3	540
IR32-MW-04	5 U	5 U	37	420	4 U	4 U	0.57	0.05 U	39	0.04 U	420	6.9	7.8	670
IR32-MW-05	5 U	5 U	270	400	22	4 U	0.1 U	0.1 U	40	0.34	420	2.8	8.2	760

Review Qualifier:

U – the analyte was not detected above the stated detection limit

Notes:

¹ Duplicate sample

Bold indicates detected concentration

Acronyms/Abbreviations:

µg/L – micrograms per liter

mg/L – milligrams per liter