

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

REBECCA GEBHART, Interim Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
LOCAL OVERSIGHT PROGRAM (LOP)
For Hazardous Materials Releases
1131 HARBOR BAY PARKWAY, SUITE 250
ALAMEDA, CA 94502
(510) 567-6700
FAX (510) 337-9335

July 31, 2017

Arkansas Bandag Corporation
PO Box 10048
Fort Smith AR 72917

Mr. Mike Rogers
ABF Freight Systems, Inc.
PO Box 10048
Fort Smith AR 72917
(Sent via electronic mail to: mkrogers@arkbest.com)

Subject: Case Closure for Fuel Leak Case No. RO0003033 and GeoTracker Global ID T0600100018, ABF Freight Systems, 4575 Tidewater Avenue, Oakland, CA 94601

Dear Mr. Rogers:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25296.10[g]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Department of Environmental Health (ACDEH) is required to use this case closure letter for all UST leak sites.

We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.waterboards.ca.gov>) and the ACDEH website (<http://www.acgov.org/aceh/index.htm>).

Due to residual contamination, the site was closed with Site Management Requirements that limit future land use to the current commercial land use as a trucking facility. Site Management Requirements are further described in Additional Information of the attached Case Closure Summary.

If you have any questions, please call Mark Detterman at (510) 567-6876. Thank you.

Sincerely,



Dilan Roe, P.E.
Chief

Enclosures: 1. Remedial Action Completion Certification
 2. Case Closure Summary

Cc w/enc.: Mark Johannes Arniola, City of Oakland Public Works, 250 Frank H. Ogawa Plaza, Suite 5301, Oakland, CA 94612 (Sent via electronic mail to: marniola@oaklandnet.com)

Dave Harlan, City of Oakland, Planning and Building Division, 250 Frank H. Ogawa, Plaza, Suite 2114, Oakland, CA 94612 (Sent via electronic mail to: धारलान@oaklandnet.com)

Debra Moser, Trinity Source Group, Inc, 500 Chestnut Street, Suite 225, Santa Cruz, CA 95060; (Sent via electronic mail to: djm@tsgcorp.net)

Eric Choi, Trinity Source Group, Inc, 500 Chestnut Street, Suite 225, Santa Cruz, CA 95060; (Sent via electronic mail to: ejc@tsgcorp.net)

Responsible Parties
RO0003033
July 31, 2017, Page 2

Dilan Roe, ACDEH, (Sent via electronic mail to: dilan.roe@acgov.org)
Paresh Khatri, ACDEH; (Sent via electronic mail to: paresh.khatri@acgov.org)
Mark Detterman, ACDEH, (Sent via electronic mail to: mark.detterman@acgov.org)
Electronic File, GeoTracker



REMEDIAL ACTION COMPLETION CERTIFICATION

July 31, 2017

Arkansas Bandag Corporation
PO Box 10048
Fort Smith AR 72917

Mr. Mike Rogers
ABF Freight Systems, Inc.
PO Box 10048
Fort Smith AR 72917
(Sent via electronic mail to: mkrogers@arkbest.com)

Subject: Case Closure for Fuel Leak Case No. RO0003033 and GeoTracker Global ID T0600100018, ABF Freight Systems, 4575 Tidewater Avenue, Oakland, CA 94601

Dear Mr. Rogers:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

Please be aware that claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Ronald Browder".

Ronald Browder
Director

Underground Storage Tank Case Closure Summary Form

Agency Information

Date: July 27, 2017

Alameda County Department of Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6876
Case Worker: Mark Detterman	Title: Senior Hazardous Materials Specialist

Case Information

Facility Name: ABF Freight Systems		
Facility Address: 4575 Tidewater Avenue, Oakland, CA 94601		
Regional Water Board LUSTIS Case No: 01-0022	Former ACDEH Case No.: ----	Current LOP Case No.: RO0003033
Unauthorized Release Form Filing Date: 6/30/1986	State Water Board GeoTracker Global ID: T0600100018	
Assessor Parcel Number: 34-2300-13-5	Current Land Use: Commercial	
Responsible Party(s):	Address:	Phone:
Arkansas Bandag Corporation	PO Box 10048 Fort Smith AR 72917	----
ABF Freight Systems, Inc. c/o Mr. Mike Rogers	PO Box 10048 Fort Smith AR 72917	----

Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place / Removed	Date
---	10,000-gallon	Diesel / Gasoline	Removed	January 8, 1987
---	10,000-gallon	Diesel	Removed	July 1, 1987
---	800-gallon	Waste Oil	Removed	June 30, 1986
---	800-gallon	New Oil	Removed	June 30, 1986

Site History

Current Land-use at time of Case Closure

The subject property (APN 34-2300-13-5) is located 4575 Tidewater Avenue, in the western portion of the City of Oakland adjacent to San Francisco bay. The 6.7 acre site, where the four underground storage tanks (USTs) were removed is situated between Tidewater Avenue and the water channel extending north from San Leandro Bay, separating the cities of Alameda and Oakland. At the time of this case closure, the site is used as a trucking terminal with a maintenance building located near the western property boundary and accordingly this case is closed to the current commercial land-use risk scenario, consisting

Underground Storage Tank Case Closure Summary Form

of a maintenance structure developed at the site. Due to residual contamination, the site was closed with site management requirements that include notifying Alameda County Department of Environmental Health (ACDEH) of a proposed change in land use to any residential or conservative land use, or if any redevelopment or building alteration is proposed that affect or disturb the existing subsurface conditions at the site.

Adjacent Property(ies) Land-use at Time of Case Closure

At the time of this case closure, no potential off-site contamination was identified. However, should off-site redevelopment occur, ACDEH recommends evaluating the redevelopment site(s) for chemicals of concern identified on this site.

Historic Land-use / Site Investigation

Four USTs once operated at the site until the late 1980's. In June of 1986, two investigations were performed consisting of tank integrity testing and soil and groundwater sampling along with additional soil and groundwater sampling. Based on tank integrity testing results two waste oil USTs and one diesel or formerly gasoline UST were removed. Soil borings and groundwater monitoring wells were installed to determine whether the USTs have contaminated soil and groundwater beneath the site. In July of 1987, the remaining diesel or formerly gasoline UST was removed.

In 1999, approximately 80 tons of stockpiled soil generated from the UST removals were disposed under non-hazardous waste manifest to Forward Landfill in Manteca, California.

In 2012 soil borings were installed to collect soil and groundwater samples. Additionally, soil vapor samples were also collected. In 2014, passive soil vapor sampling probes were installed to delineate PCE detected in soil vapor. In 2015, sewer lines and drain pipes were cleared to perform a video survey to determine whether floor drains and sewer lines are potential sources of light non-aqueous phase liquid (LNAPL) detected at the site.

Discovery of the PCE vapor contamination and petroleum Light Non Aqueous Phased Liquids (LNAPL) beneath the maintenance building delayed closure under the State Water Resource Control Board Low Threat Underground Storage Tank Closure Policy (LTCP) in 2014.

No other investigation or cleanup was performed in relation to the USTs.

Investigation of the PCE contamination has been referred to another environmental case (RO0003134 and T10000005825).

Potential Exposure to Chemicals of Concern

The USTs that were used to store used oil, motor oil, diesel and gasoline are believed to be the source of the contamination discovered at the site. The main chemicals of concern (COCs) associated with the USTs and detected at the site were TPH-d, TPH-g, BTEX, and PCE. Inhalation and ingestion appear to have been the most likely potential routes of exposure to these COCs.

Remediation Activities

Source removal of the UST was performed at the site. No additional corrective actions were performed at the site.

Case Closure & Future Site Management Requirements

This fuel leak case has been evaluated for closure consistent with the LTCP. The site fails the LTCP groundwater criteria as the nearest surface water body is less than 250 feet from the release, however plume concentrations in the downgradient well are below ESLs for the protection of estuary habitats. The site also fails the LTCP vapor intrusion criteria due to the presence of limited LNAPL beneath the

Underground Storage Tank Case Closure Summary Form

maintenance building, the presence of groundwater at a depth of approximately 3.3 feet which precludes the collection of a soil vapor sample at a depth of 5 feet below the foundation (estimated at 6.5 feet below grade surface), the lack of a 5 foot bioattenuation zone, and the presence of TPH concentrations greater than 100 milligrams per kilogram (mg/kg) in the 0 to 5 foot depth interval. Based on the collection of sub-slab petroleum hydrocarbon vapor samples ACDEH has concluded that petroleum vapors migrating from soil or groundwater will not have a significant risk of adversely affecting human health as a result of controlling the exposure through the use of an institutional land use control. Finally, the case does not meet the Direct Contact and Outdoor Air criteria due to non-detectable PAHs above LTCP Table 1 values in the 0 to 5 foot depth interval. However, ACDEH has made the determination that there is a low potential threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame.

Due to residual contamination at the site, the site is closed as a commercial site with site management requirements. If there is a proposed change in land use to any residential, or conservative land use, or if any redevelopment occurs, ACDEH must be notified as required by Government Code Section 65850.2.2. ACDEH will re-evaluate the site relative to the proposed redevelopment. Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

Site Closure Evaluation Summary

This UST release case has been evaluated for closure consistent with the State Water Resource Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP) for petroleum related contaminants.

Refer to Attachments 1 through 5 for analysis details.

Site Management Requirements

Case closure is granted for the current commercial land use as a trucking facility.

Due to residual subsurface contamination remaining at the site, if any redevelopment occurs, or if a proposed change in land use to residential, or other conservative land use, Alameda County Department of Environmental Health (ACDEH) must be notified as required by Government Code Section 65850.2.

Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.

Underground Storage Tank Case Closure Summary Form

Institutional Controls

Not Applicable

Engineering Controls

Not Applicable

Case Closure Public Notification Information

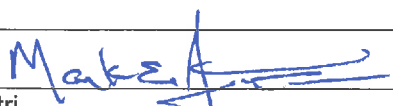


Agency Type	Agency Name	Contact Information
Regional Water Board	San Francisco Bay	Laurent Meillier 1515 Clay Street, Suite 1400, Oakland, CA 94612
Municipal and County Water Districts	East Bay Municipal Utility District	Chandra Johannesson P.O. Box 24055, MS 702 Oakland, CA 94623
Water Replenishment Districts	Not Applicable	----
Groundwater Basin Managers	Not Applicable	----
Planning Agency	City of Oakland	Dave Harlan City of Oakland Planning and Building Division 250 Frank H. Ogawa Plaza, Suite 2114 Oakland, CA 94612
Public Works Agency	City of Oakland	Mark Johannes Arniola City of Oakland Public Works Division 250 Frank H. Ogawa Plaza, Suite 4314 Oakland, CA 94612
Owners and Occupants of Property and Adjacent Parcels	See List in Attachment 7	----

Underground Storage Tank Case Closure Summary Form

Monitoring Wells Status

Monitoring Wells (MW) Onsite: Four groundwater Three sub-slab vapor	MWs Destroyed: Four and three, respectively
No MWs Destroyed: Four and three, respectively	No. MWs Retained: None

Local Agency Signatures

Case Worker: Mark Detterman	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 7/31/2017
Paresh Khatri	Title: LOP Supervisor
Signature: 	Date: JULY 31, 2017
Program Manager: Dilan Roe	Title: Chief
Signature: 	Date: JULY 31, 2017

This Case Closure Summary along with the Case Closure Transmittal letter and the Remedial Action Completion Certification provides documentation of the case closure. This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions. The Conceptual Site Model may not contain all available data. Additional information on the case can be viewed in the online case file. The entire case file can be viewed over the Internet on the Alameda County Department of Environmental Health (ACDEH) website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.waterboards.ca.gov>). Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the ACDEH website.

Geotracker Conceptual Site Model (Attachment 1, 2 page)

Geotracker LTCP Checklist (Attachment 2, 1 page)

Groundwater Evaluation and Data (Attachment 3, 21 pages)

Vapor Intrusion Evaluation and Data (Attachment 4, 5 pages)

Soil Evaluation and Data (Attachment 5, 10 pages)

Responsible Party Information (Attachment 6, 6 pages)

Case Closure Public Notification Information (Attachment 7, 5 pages)

ATTACHMENT 1

ABF FREIGHT SYSTEMS (T0600100018) - [MAP THIS SITE](#) PUBLIC PAGE

4575 TIDEWATER AVE
OAKLAND, CA 94601
ALAMEDA COUNTY
LUST CLEANUP SITE
STATUS: COMPLETED - CASE CLOSED

CLEANUP OVERSIGHT AGENCIES
ALAMEDA COUNTY LOP (LEAD) - CASE #: R00003033 - [MARK DETTERMAN](#)
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-0022 - [Regional Water Board](#)

- [Activities Report](#)
[Documents / Data](#)
[Environmental Conditions](#)
[Admin](#)
[Funding](#)
[Case Reviews](#)

THERE ARE 1 OTHER CASES ASSOCIATED WITH THIS CASE - [SHOW](#)

THIS PROJECT WAS LAST MODIFIED BY [MARK DETTERMAN](#) ON 8/1/2017 10:31:43 AM - [HISTORY](#)

CSM REPORT - [VIEW PUBLIC NOTICING VERSION OF THIS REPORT](#)

UST CLEANUP FUND CLAIM INFORMATION (DATA PULLED FROM SCUFIIS)

CLAIM NO	PRIORITY	CLAIMANT	SITE ADDRESS	AMT REIMP TO DATE	AGE OF LOC	IMPACTED WELLS?	REVIEW NUM	REVIEWER	FIVE YEAR REVIEW INFORMATION		
									FUND RECOMMENDATION	TO OVERSIGHT DATE	TO CLAIMANT DATE

PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - [MAP THIS SITE](#)

SITE NAME / ADDRESS	STATUS	STATUS DATE	RELEASE REPORT DATE	AGE OF CASE	CLEANUP OVERSIGHT AGENCIES
ABF FREIGHT SYSTEMS (Global ID: T0600100018) 4575 TIDEWATER AVE OAKLAND, CA 94601	Completed - Case Closed	7/31/2017	7/3/1986	31	ALAMEDA COUNTY LOP (LEAD) - CASE #: R00003033 CASEWORKER: MARK DETTERMAN - SUPERVISOR: DILAN ROE SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-0022 CASEWORKER: Regional Water Board - SUPERVISOR: NONE SPECIFIED

STAFF NOTES (INTERNAL)

SITE HISTORY
Current Land-use at time of Case Closure
The subject property (APN 34-2300-13-5) is located 4575 Tidewater Avenue, in the western portion of the City of Oakland adjacent to San Francisco bay. The 6.7 acre site, where the four underground storage tanks (USTs) were removed is situated between Tidewater Avenue and the water channel extending north from San Leandro Bay, separating the cities of Alameda and Oakland. At the time of this case closure, the site is used as a trucking terminal with a maintenance building located near the western property boundary and accordingly this case is closed to the current commercial land-use risk scenario, consisting of a maintenance structure developed at the site. Due to residual contamination, the site was closed with site management requirements that include notifying Alameda County Department of Environmental Health (ACDEH) of a proposed change in land use to any residential or conservative land use, or if any redevelopment or building alteration is proposed that affect or disturb the existing subsurface conditions at the site.

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At the time of this case closure, no potential off-site contamination was identified. However, should off-site redevelopment occur, ACDEH recommends evaluating the redevelopment site(s) for chemicals of concern identified on this site.

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In 1999, approximately 80 tons of stockpiled soil generated from the UST removals was disposed of under non-hazardous waste manifest to Forward Landfill in Manteca, California.

In 2012 soil borings were installed to collect soil and groundwater samples. Additionally, soil vapor samples were also collected. In 2014, passive soil vapor sampling probes were installed to delineate PCE detected in soil vapor. In 2015, sewer lines and drain pipes were cleared to perform a video survey to determine whether floor drains and sewer lines are potential sources of light non-aqueous phase liquid (LNAPL) detected at the site.

Discovery of the PCE vapor contamination and petroleum Light Non Aqueous Phased Liquids (LNAPL) beneath the maintenance building delayed closure under the State Water Resource Control Board Low Threat Underground Storage Tank Closure Policy (LTCP) in 2014.

No other investigation or cleanup was performed in relation to the USTs.

Investigation of the PCE contamination has been referred to another environmental case (R00003134 and T10000005825).

Potential Exposure to Chemicals of Concern
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Remediation Activities
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Case Closure & Future Site Management Requirements
This fuel leak case has been evaluated for closure consistent with the LTCP. The site fails the LTCP groundwater criteria as the nearest surface water body is less than 250 feet from the release, however plume concentrations in the downgradient well are below ESLs for the protection of estuary habitats. The site also fails the LTCP vapor intrusion criteria due to the presence of limited LNAPL beneath the maintenance building, the presence of groundwater at a depth of approximately 3.3 feet which precludes the collection of a soil vapor sample at a depth of 5 feet below the foundation (estimated at 6.5 feet below grade surface), the lack of a 5 foot bioattenuation zone, and the presence of TPH concentrations greater than 100 milligrams per kilogram (mg/kg) in the 0 to 5 foot depth interval. Based on the collection of sub-slab petroleum hydrocarbon vapor samples ACDEH has concluded that petroleum vapors migrating from soil or groundwater will not have a significant risk of adversely affecting human health as a result of controlling the exposure through the use of an institutional land use control. Finally, the case does not meet the Direct Contract and Outdoor Air criteria due to non-detectable PAHs above LTCP Table 1 values in the 0 to 5 foot depth interval. However, ACDEH has made the determination that there is low potential threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame.

Due to residual contamination at the site, the site is closed as a commercial site with site management requirements. If there is a proposed change in land use to any residential, or conservative land use, or if any redevelopment occurs, ACDEH must be notified as required by Government Code Section 65850.2.2. ACDEH will re-evaluate the site relative to the proposed redevelopment. Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

RESPONSIBLE PARTIES

NAME	ORGANIZATION	ADDRESS	CITY	EMAIL
MIKE ROGERS	ABF FREIGHT SYSTEMS, INC.	3601 OLD GREENWOOD ROAD, PO BOX 10048	FORT SMITH	
MIKE ROGERS	Arkansas Bandag Corporation	PO BOX 10048	FORT SMITH	

CLEANUP ACTION INFO

NO CLEANUP ACTIONS HAVE BEEN REPORTED

RISK INFORMATION [VIEW LTCP CHECKLIST](#) [VIEW PATH TO CLOSURE PLAN](#) [VIEW CASE REVIEWS](#)

CONTAMINANTS OF CONCERN	CURRENT LAND USE	BENEFICIAL USE	DISCHARGE SOURCE	DATE REPORTED	STOP METHOD	NEARBY / IMPACTED WELLS
Diesel, Gasoline, Other Petroleum, Waste Oil / Motor / Hydraulic / Lubricating	Commercial	GW - Municipal and Domestic Supply	Other	7/3/1986	Close and Remove Tank	0

FREE PRODUCT	OTHER CONSTITUENTS	NAME OF WATER SYSTEM	LAST REGULATORY ACTIVITY	LAST ESI UPLOAD	LAST EDF UPLOAD	EXPECTED CLOSURE DATE	MOST RECENT CLOSURE REQUEST
NO	YES	EBMUD	7/19/2017	7/19/2017	5/27/2015	9/30/2017	

CDPH WELLS WITHIN 1500 FEET OF THIS SITE
NONE

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)

APN	GW BASIN NAME	WATERSHED NAME
034 230001305	Sanita Clara Valley - East Bay Plain (2-9.04)	South Bay - East Bay Cities (204.20)

COUNTY: Alameda PUBLIC WATER SYSTEM(S): EAST BAY MUD - 375 ELEVENTH STREET, OAKLAND, CA 94607

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER - [SHOW](#) [VIEW ESI SUBMITTALS](#)

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL - SHOW	VIEW ESI SUBMITTALS
MOST RECENT GEO_WELL DATA - SHOW	VIEW ESI SUBMITTALS

ATTACHMENT 2

4575 TIDEWATER AVE
OAKLAND, CA 94601
LUST CLEANUP SITE
STATUS: OPEN - ELIGIBLE FOR CLOSURE

CLEANUP OVERSIGHT AGENCIES
ALAMEDA COUNTY LOP (LEAD) - CASE #: R00003033 - MARK DETTERMAN
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-0022 - Regional Water Board

THERE ARE 1 OTHER CASES ASSOCIATED WITH THIS CASE - SHOW

THIS PROJECT WAS LAST MODIFIED BY MARK DETTERMAN ON 11/2/2016 4:49:59 PM - HISTORY

CLOSURE POLICY THIS VERSION IS FINAL AS OF 11/2/2016 CHECKLIST INITIATED ON 7/26/2013 CLOSURE POLICY HISTORY

General Criteria - The site satisfies the policy general criteria - CLEAR SECTION ANSWERS NO

- a. Is the unauthorized release located within the service area of a public water system?
Name of Water System: YES NO
- b. The unauthorized release consists only of petroleum (info).
Contaminants: Chlorobenzene PCE TCE Chloroform Vinyl Chloride Bromoform
 Other: Referred PCE contamination to case R00003134 (T1000005825). YES NO
- c. The unauthorized ("primary") release from the UST system has been stopped. YES NO
- d. Free product has been removed to the maximum extent practicable (info). FP Not Encountered YES NO
- e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed (info). YES NO
- f. Secondary source has been removed to the extent practicable (info). YES NO
- g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15. Not Required YES NO
- h. Does a nuisance exist, as defined by Water Code section 13050. YES NO

1. Media-Specific Criteria: Groundwater - The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets all of the additional characteristics of one of the five classes of sites listed below. - CLEAR SECTION ANSWERS YES

EXEMPTION - Soil Only Case (Release has not Affected Groundwater - Info) YES NO

Does the site meet any of the Groundwater specific criteria scenarios? YES NO

1.5 - The regulatory agency determines, based on an analysis of site specific conditions, that the site under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame. YES NO

2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c. - CLEAR SECTION ANSWERS YES

EXEMPTION - Active Commercial Petroleum Fueling Facility YES NO

Does the site meet any of the Petroleum Vapor Intrusion to Indoor Air specific criteria scenarios? YES NO

2c - Petroleum Vapor Intrusion to Indoor Air - As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, the regulatory agency determines that petroleum vapors migrating from soil or groundwater will have no significant risk of adversely affecting human health. YES NO

3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below. - CLEAR SECTION ANSWERS YES

EXEMPTION - The upper 10 feet of soil is free of petroleum contamination YES NO

Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios? YES NO

3(c) - As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, the regulatory agency determines that the concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health. YES NO

Additional Information

Should this case be closed in spite of NOT meeting policy criteria? YES NO

Explain: YES NO

Has this LTCP Checklist been updated for FY 16/17? YES NO

SPELL CHECK

Save Form as Partially Completed Save Form as Complete

ATTACHMENT 3

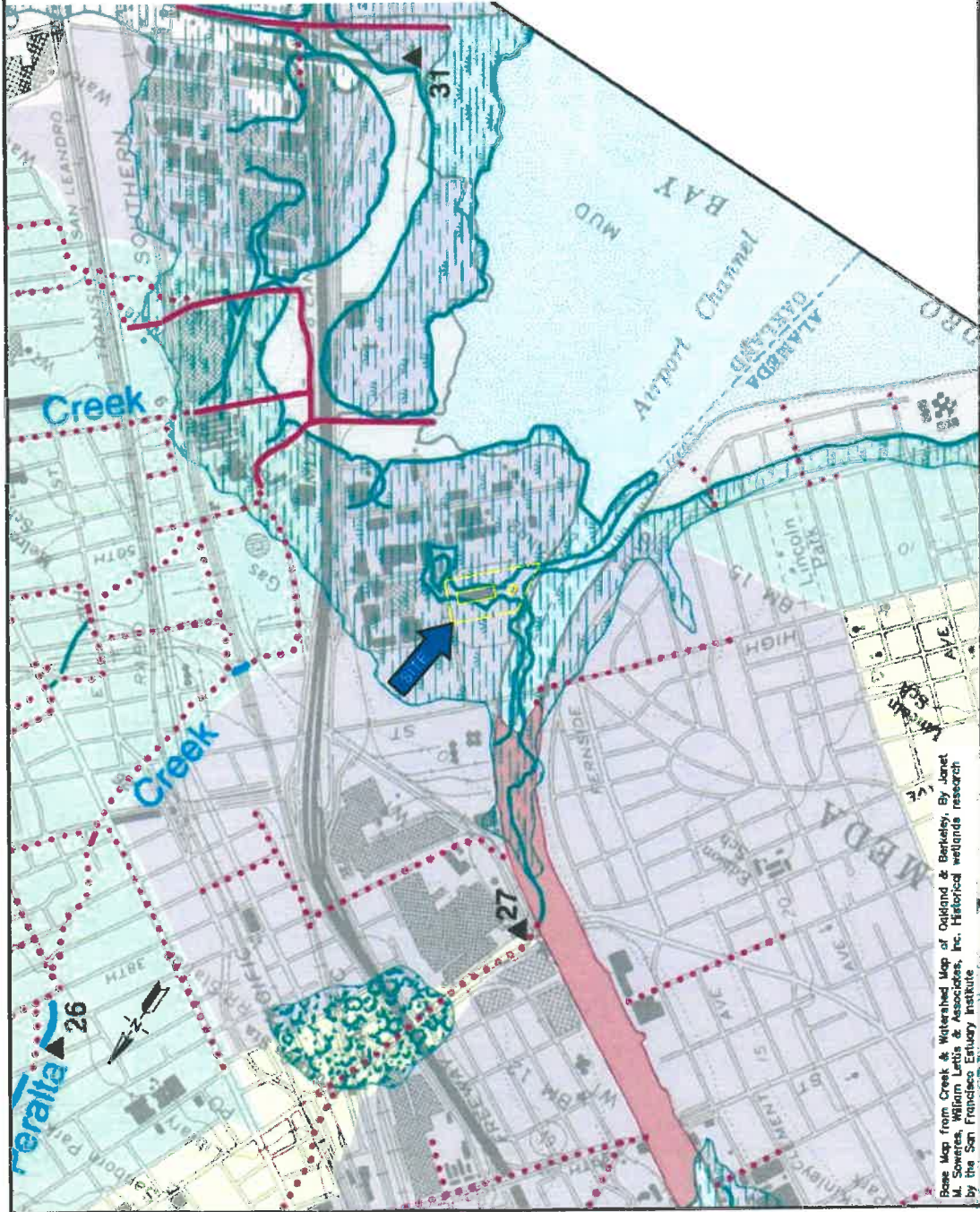
Attachment 3 – Groundwater Evaluation and Data

LTCP GROUNDWATER SPECIFIC CRITERIA - PETROLEUM						
Closure Scenario						
___ Site has not affected groundwater; ___ Scenario 1; ___ Scenario 2; ___ Scenario 3; ___ Scenario 4; <input checked="" type="checkbox"/> Scenario 5 ; ___ This case should be closed in spite of not meeting the groundwater specific media criteria						
Shading indicates Site Specific Data and Bold Text indicates Evaluation Criteria						
Site Specific Data		Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
Plume Length	100 – 250 feet	<100 feet	<250 feet	<1,000 feet	<1,000 feet	The site does not meet scenarios 1 through 4; however, a determination been made that under current and reasonably expected future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame.
Free Product	Removed to maximum extent practicable	No free product	No free product	Removed to maximum extent practicable	No free product	
Plume Stable or Decreasing	Stable or decreasing	Stable or decreasing	Stable or decreasing	Stable or decreasing for minimum of 5 years	Stable or decreasing	
Distance to Nearest Water Supply Well (from plume boundary)	~ 1,560 feet upgradient (DWR / ACPWA) >2,000 feet (GAMA)	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet	
Distance to Nearest Surface Water Body (from plume boundary)	Downgradient: 300 feet Cross Gradient: 250 feet Upgradient: 5,390 feet	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet	
Benzene Concentrations (µg/l)	Historic Max: 1,590 Current Max: 2.7	No criteria	<3,000	<1,000	<1,000	
MTBE Concentrations (µg/l)	Historic Max: 2.1 Current Max: 1.2	No criteria	<1,000	<1,000	<1,000	
Property Owner Willing to Accept a Land Use Restriction	Not applicable	Not applicable	Not applicable	Yes	Not applicable	

Notes: DWR = Department of Water Resources
 ACPWA = Alameda County Public Works Agency
 GAMA = Groundwater Ambient Monitoring Assessment (GeoTracker)

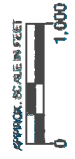
Attachment 3 – Groundwater Evaluation and Data

Analysis	
Plume Length	The property overlies filled bay marshland. Therefore, the groundwater plume was defined to salt water aquatic habitat goals. (Contaminant plume that exceeds water quality objectives is approximately 100 – 250 feet in length.)
Free Product	Observed at site as isolated pocket at soil bore SB-4. It was removed and did not return to the soil bore. Thus it was removed to maximum extent practicable.
Plume Stability	Plume is stable in aerial extent. (The contaminant mass has expanded to its maximum extent defined as the distance from the release where attenuation exceeds migration.)
Water Supply Wells	An Alameda County Public Works Agency (ACPWA) and the Department of Water Resources (DWR) well survey indicate no public water supply wells, irrigation wells within 1,320 feet of the site. The well survey results from the GeoTracker Groundwater Ambient Monitoring Assessment (GAMA) website indicates there are no public water supply wells, irrigation wells, California Department of Public Health wells, Department of Pesticide Regulation wells located within a 2,000 foot radius of the site.
Surface Water Bodies	The Alameda – Oakland Estuary is downgradient to the south of the release at an approximate distance of 300 feet. It is also cross gradient at an approximate distance of 250 feet to the west. A daylighted portion of Peralta Creek is 5,390 feet upgradient.



EXPLANATION

- Creeks
- Former creeks, buried or drained, and Bay shoreline, circa 1850
- Underground culverts and storm drains
- Engineered channels
- Willow groves, circa 1850
- Beach, circa 1850
- Tidal marsh, circa 1850
- now water
- now fill land
- Bay
- Bay, circa 1850, now fill land
- Artificial bodies of water
- Present watersheds



PROJECT:
154.009.005
FIGURE:
1

SITE LOCATION MAP

ABE Freight System Facility
4575 Tidewater Ave.
Oakland, California

Base Map from Creek & Watershed Map of Oakland & Berkeley, By Janet M. Sowers, William Lertis & Associates, Inc. Historical wetlands research by the San Francisco Estuary Institute.

TRINITY

 Environmental Services, Inc.

 100 Piedmont Street

 Suite 200, Oakland, CA 94612

 Phone: 510.436.5000

 Fax: 510.436.5000



PROJECT:
154.004.001

FIGURE:
2

SITE MAP

ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

PREPARED BY



TRINITY
source group, inc.
Environmental Consultants

500 Chestnut Street, Suite 225
Santa Cruz, California 95060
v. 831.426.5600
f. 831.426.5602

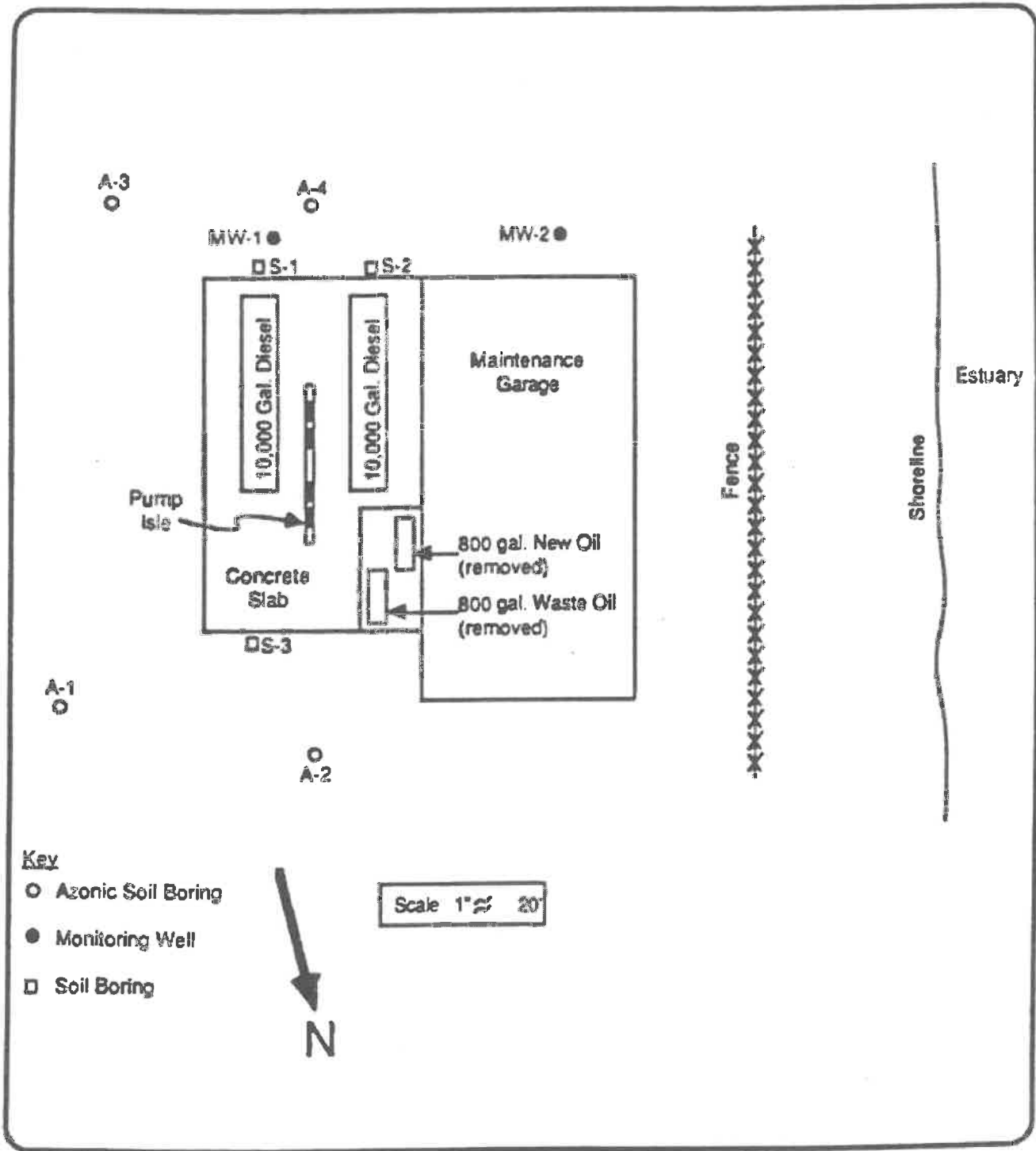
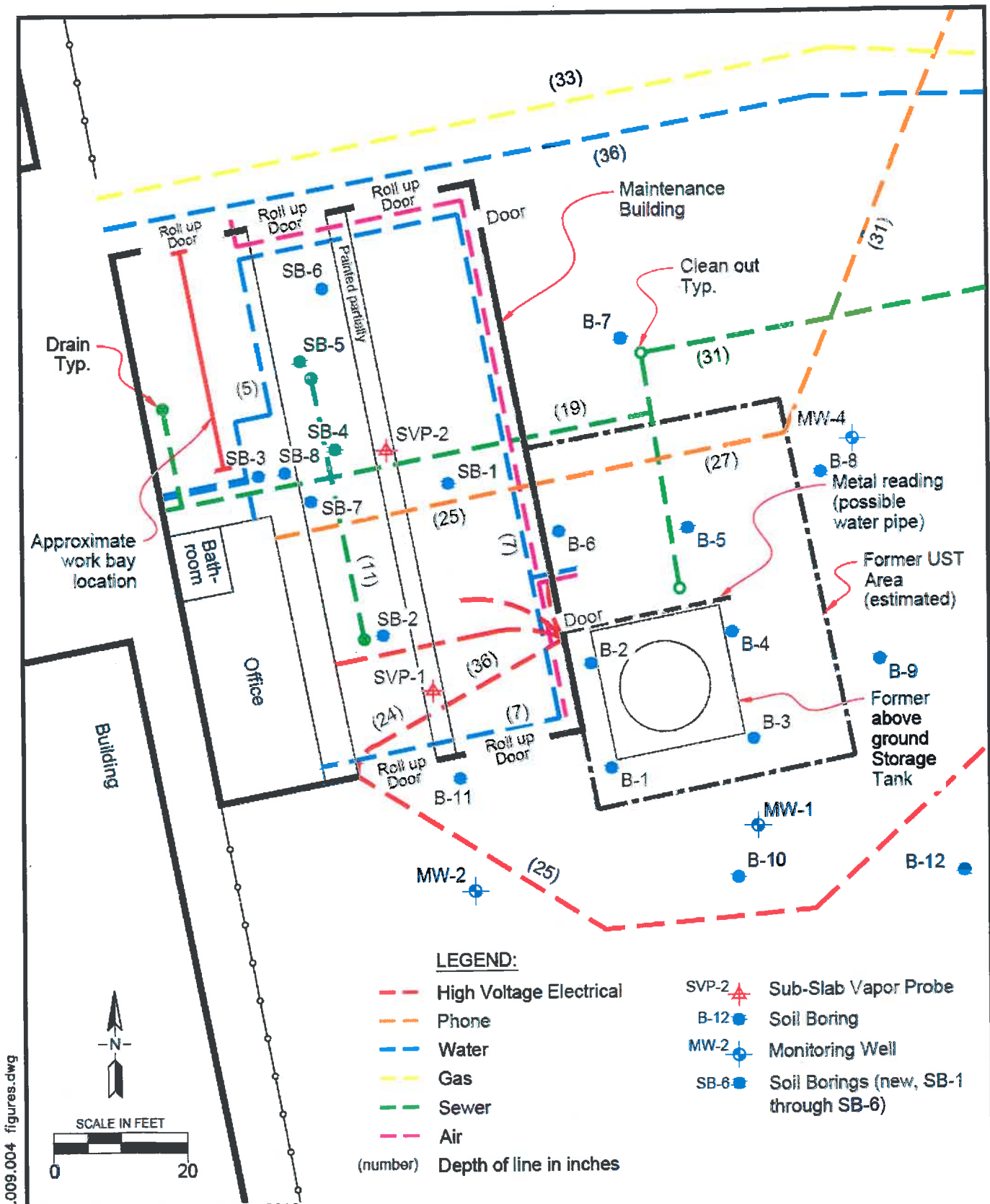
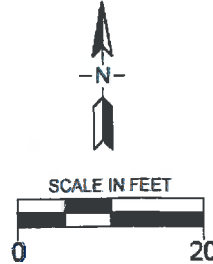


Figure 2. Location of Monitoring Wells and Soil Borings



LEGEND:

- High Voltage Electrical
- Phone
- Water
- Gas
- Sewer
- Air
- (number) Depth of line in inches
- SVP-2 ▲ Sub-Slab Vapor Probe
- B-12 ● Soil Boring
- MW-2 ⊕ Monitoring Well
- SB-6 ● Soil Borings (new, SB-1 through SB-6)



Base Map from Google Earth, 2012

REF. 154_001\154.009.004 figures.dwg

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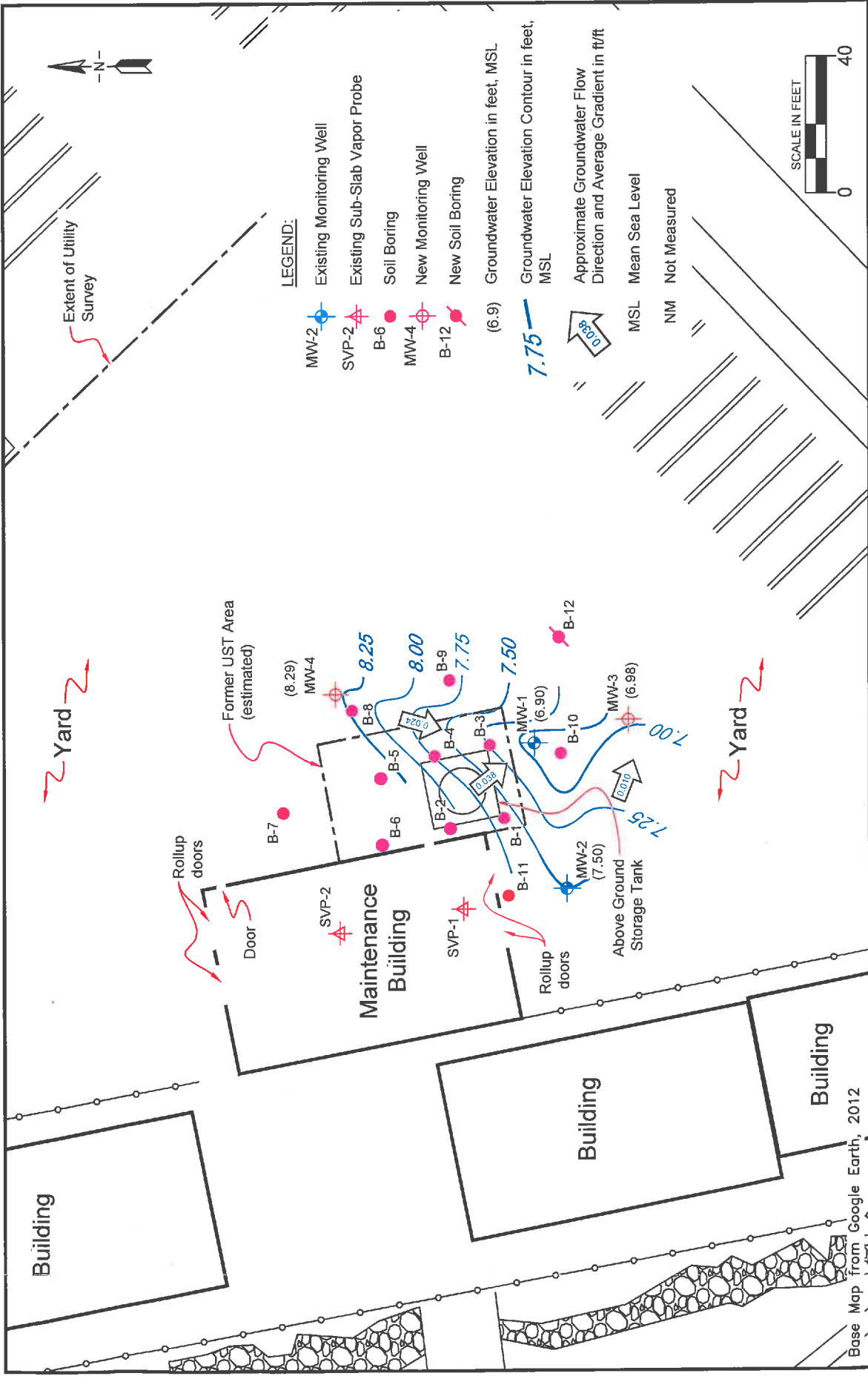
119 Encinal Street
Santa Cruz, California 95060
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SOIL BORINGS, SUB-SLAB VAPOR PROBE, UTILITIES LOCATION MAP

ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

PROJECT:
154.009.005

FIGURE:
2



Base Map from Google Earth, 2012

**GROUNDWATER ELEVATION CONTOUR MAP,
FEBRUARY 8, 2013**

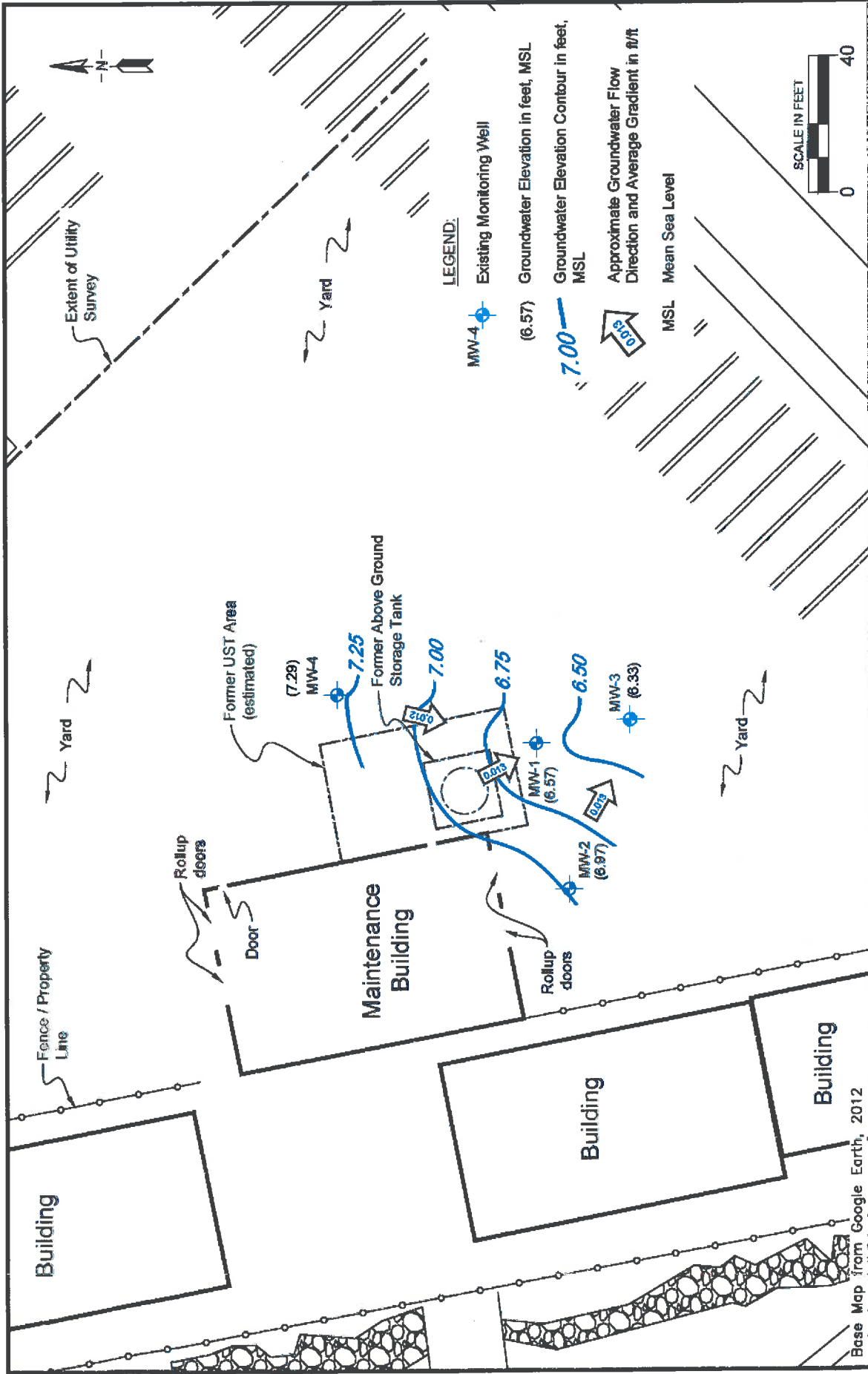
ABF Freight System Facility
4575 Tidewater Avenue
Oakland, California

PROJECT:
154.004.008

FIGURE:
3

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REF. 154_001\154.004.008 fig2.dwg




GROUNDWATER ELEVATION CONTOUR MAP,
MARCH 26, 2015


ABF Freight System Facility
 4575 Tidewater Avenue
 Oakland, California

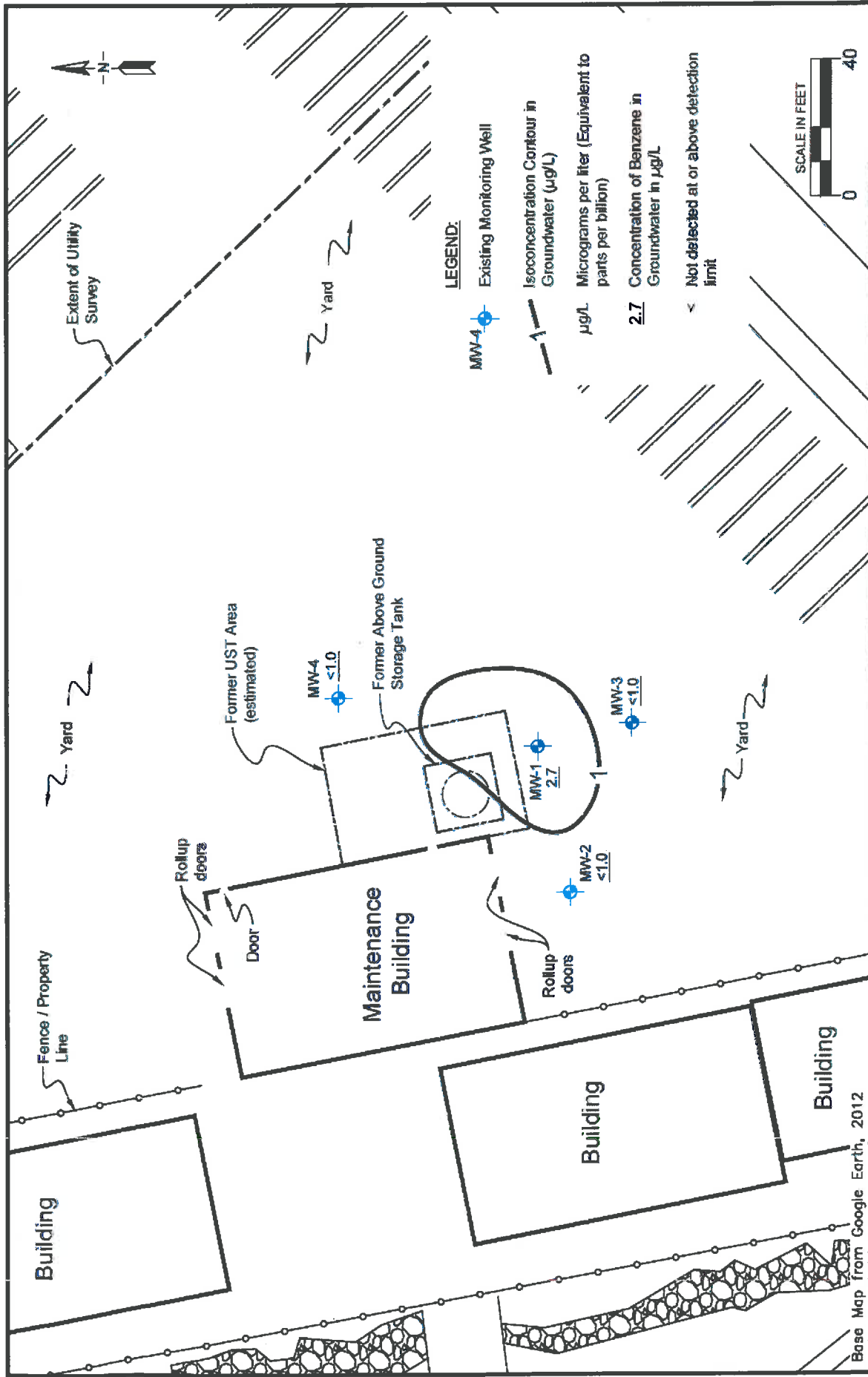
PROJECT:
 154.010.005

FIGURE:
 3

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PROJECT: 154.010.005	FIGURE: 4
PREPARED BY  TRINITY source group, inc. Environmental Consultants 119 Encinal Street Santa Cruz, California 95060 v. 831.426.5600 f. 831.426.5602	

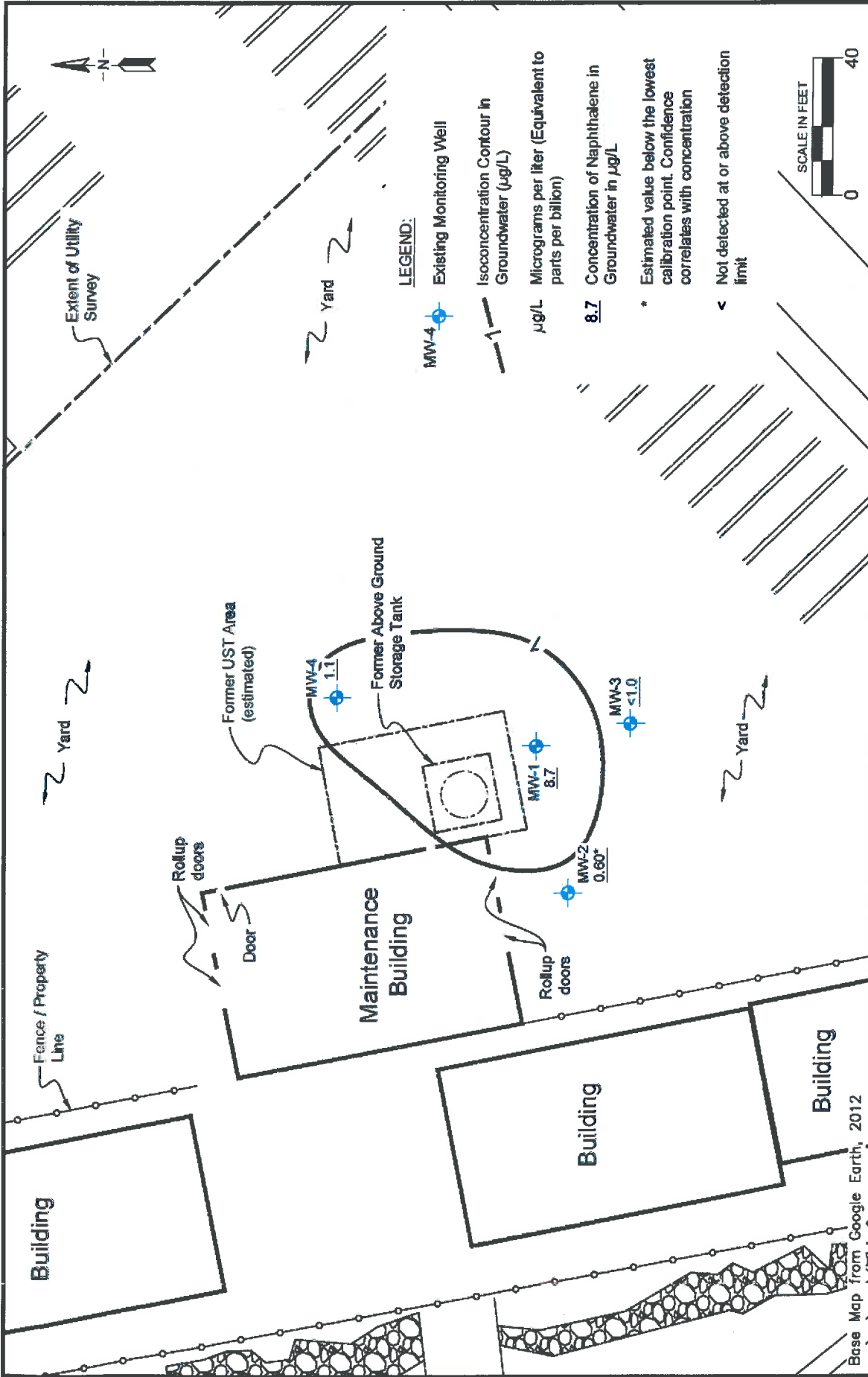


BENZENE ISOCONCENTRATION CONTOUR MAP, MARCH 26, 2016 ABF Freight System Facility 4575 Tidewater Avenue Oakland, California	PROJECT: 154.010.005
	FIGURE: 5

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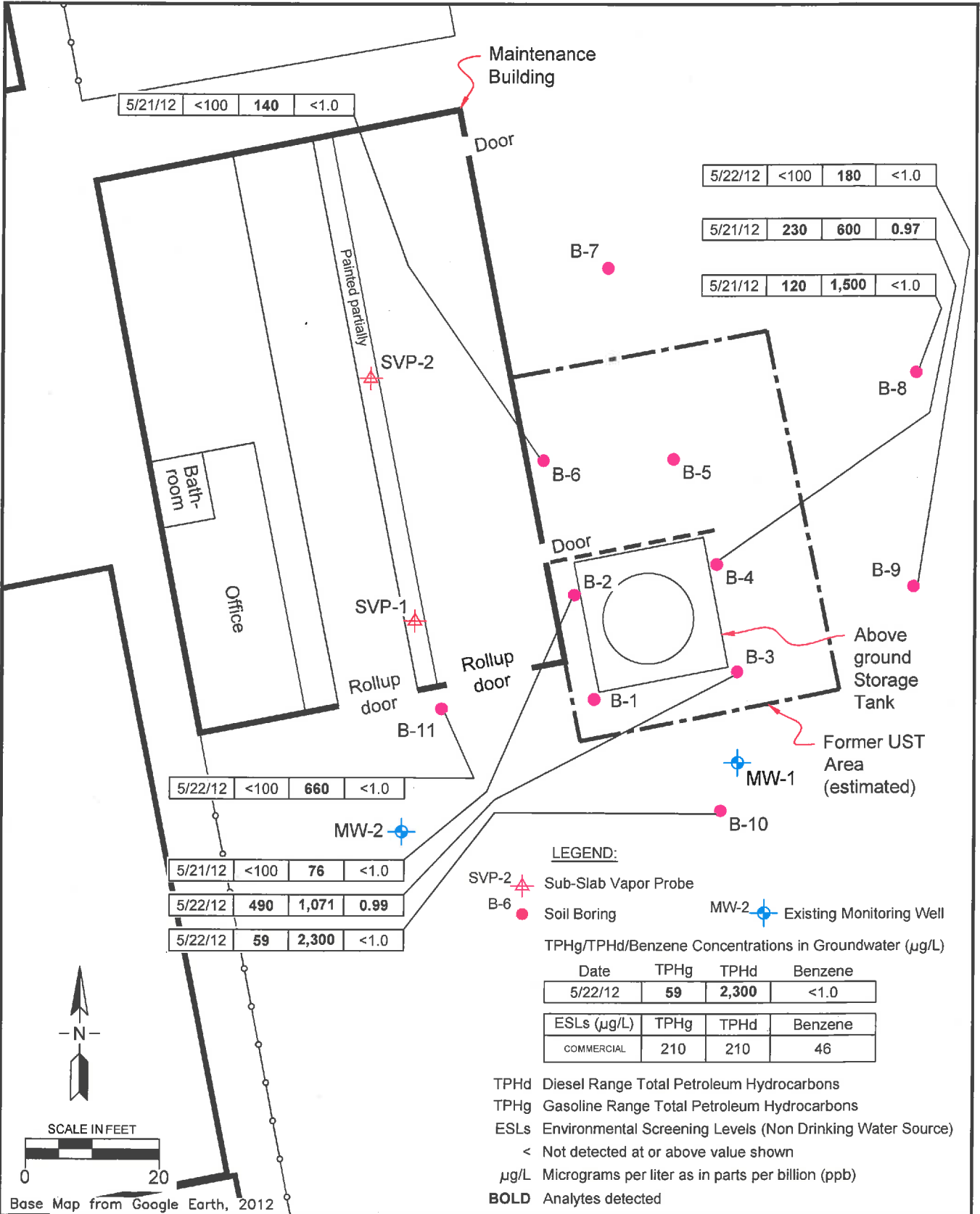
119 Encinal Street
 Santa Cruz, California 95060
 T: 831.426.5600
 F: 831.426.5602



PROJECT: 154.010.005	FIGURE: 6

TRINITY
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REF. 154_001 \ 154-004.005 figures.dwg



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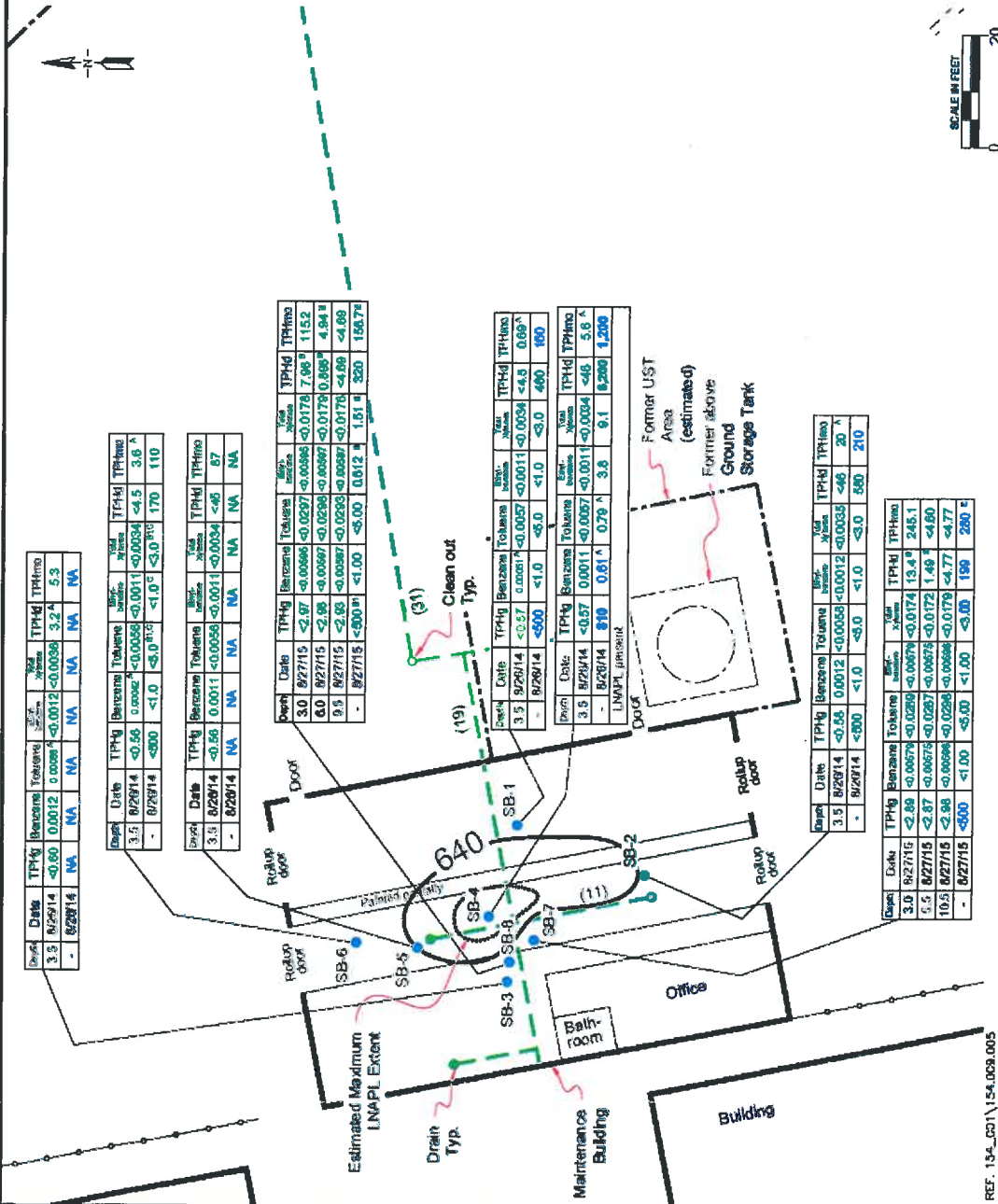
TRINITY
source group, inc.
 Environmental Consultants

500 Chestnut Street, Suite 225
 Santa Cruz, California 95060
 v: 831.426.5600
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**SHALLOW GRAB-GROUNDWATER
 ANALYTICAL DATA MAP**
 ABF Freight Systems Facility
 4575 Tidewater Avenue
 Oakland, California

PROJECT:
 154.004.005

FIGURE:
5



Depth	Date	TPHq	Benzene	Toluene	Xylenes	TPHd	TPHmo
3.5'	8/28/14	<0.60	0.0012	0.0004	<0.0012	<0.0036	3.24 5.3
-	8/28/14	NA	NA	NA	NA	NA	NA

Depth	Date	TPHq	Benzene	Toluene	Xylenes	TPHd	TPHmo
3.5'	8/28/14	<0.56	0.0002	<0.0036	<0.0011	<0.0034	<4.5 3.6 A
-	8/28/14	<800	<1.0	<3.0	<1.0	<3.0	170 110

Depth	Date	TPHq	Benzene	Toluene	Xylenes	TPHd	TPHmo
3.5'	8/28/14	<0.56	0.0011	<0.0036	<0.0011	<0.0034	<4.5 3.7
-	8/28/14	NA	NA	NA	NA	NA	NA

Depth	Date	TPHq	Benzene	Toluene	Xylenes	TPHd	TPHmo
3.0'	8/27/15	<2.87	<0.0085	<0.0297	<0.0085	<0.0178	7.98 B 11.52
6.0'	8/27/15	<2.88	<0.0087	<0.0298	<0.0087	<0.0178	0.868 B 4.94 B
9.5'	8/27/15	<2.88	<0.0087	<0.0298	<0.0087	<0.0178	<4.88 <4.88
-	8/27/15	<800	<1.0	<3.0	<1.0	<3.0	320 158.78

Depth	Date	TPHq	Benzene	Toluene	Xylenes	TPHd	TPHmo
3.5'	8/28/14	<0.57	0.0017	<0.0057	<0.0011	<0.0034	<4.5 0.69 A
-	8/28/14	<800	<1.0	<3.0	<1.0	<3.0	<4.0 0.60

Depth	Date	TPHq	Benzene	Toluene	Xylenes	TPHd	TPHmo
3.5'	8/28/14	<0.57	0.0011	<0.0057	<0.0011	<0.0034	<4.5 5.8 A
-	8/28/14	819	0.81 A	0.79 A	3.8	9.1	9.280 1.200
LNAPL present							

Depth	Date	TPHq	Benzene	Toluene	Xylenes	TPHd	TPHmo
3.5'	8/28/14	<0.55	0.0012	<0.0036	<0.0012	<0.0035	<4.6 2.0 A
-	8/28/14	<800	<1.0	<3.0	<1.0	<3.0	850 210

Depth	Date	TPHq	Benzene	Toluene	Xylenes	TPHd	TPHmo
3.0'	8/27/15	<2.88	<0.0085	<0.0297	<0.0085	<0.0174	13.4 B 245.1
5.5'	8/27/15	<2.87	<0.0087	<0.0298	<0.0087	<0.0172	1.48 <4.60
10.5'	8/27/15	<2.88	<0.0088	<0.0298	<0.0088	<0.0179	<4.77 <4.77
-	8/27/15	<800	<1.00	<3.00	<1.00	<3.00	198 280 B

- LEGEND:**
- SB-6 Soil Boring
 - Sewer
 - (number) Depth of line in inches
 - TPHq Gasoline Range Total Petroleum Hydrocarbons
 - TPHd Diesel Range Total Petroleum Hydrocarbons
 - TPHmo Total Petroleum Hydrocarbons - Motor Oil Range (C29-C40 for SB-1 through SB-8; sum of C22-C32 and C32-C40 for SB-7 and SB-8)
 - < Not detected at or above detection limit
 - GREEN** Soil Sample Data In Micrograms per Milligram (mg/kg)
 - BLUE** Grab-Groundwater Sample Data in micrograms per liter (µg/L)
 - BOLD** Exceeds ESL concentration
 - LNAPL** Light Non-Aqueous Phase Liquid
 - A** Estimated value below lower calibration point. Confidence correlates with concentration
 - B** The identification of the analyte is acceptable; the reported value is an estimate.
 - B1** The associated batch QC was outside the established quality control range for precision
 - C** The sample matrix interfered with the ability to make any accurate determination; spike value is high
 - E** C32-C40 Range detection qualified by laboratory as follows; *The identification of the analyte is acceptable; the reported value is an estimate.

SFRMDCB ESLS - Commercial, Shallow Soil - Not a Current or Potential Drinking Water Resource (mg/kg)

TPHq	Benzene	Toluene	Xylenes	TPHd	TPHmo
800	12	9.3	4.7	11	110
800	46	130	43	100	640

SFRMDCB ESLS - Commercial, Groundwater - Aquatic Receptor, Not a Current or Potential Drinking Water Resource (µg/L)

TPHq	Benzene	Toluene	Xylenes	TPHd	TPHmo
800	46	130	43	100	640

SFRMDCB San Francisco Bay Regional Water Quality Control Board, California Environmental Protection Agency

ESLS Environmental Screening Levels (Updated December 2013)

640 TPHd Isoconcentration Contour in Groundwater (µg/L)

SOIL AND GRAB-GROUNDWATER ANALYTICAL DATA MAP

ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

REF: 154_C01\154.009.005
Scope Map from Google Earth, 2012

110 Powell Street
San Francisco, CA 94102
Tel: 415.750.5600
Fax: 415.750.5602

PROJECT: 154.009.005
FIGURE: 3

Table 1
RESULTS OF SOIL AND WATER SAMPLING

Water Samples

<u>Well No.</u>	<u>Sample Date/Time</u>	<u>Sample Depth, ft</u>	<u>Motor Fuel (mg/l)</u>	<u>Benzene (mg/l)</u>	<u>Toluene (mg/l)</u>	<u>Xylene (mg/l)</u>	<u>Fuel Type</u>
MW-1	9/15 11:30 am	5-10	4.52	1.59	0.012	1.0	Gasoline
MW-2	9/15 11:45 am	5-10	<0.05	0.009	<0.001	<0.001	Gasoline

Soil Samples

<u>Well No.</u>	<u>Sample Date/Time</u>	<u>Sample Depth, ft</u>	<u>Motor Fuel (mg/l)</u>	<u>Benzene (mg/l)</u>	<u>Toluene (mg/l)</u>	<u>Xylene (mg/l)</u>	<u>Fuel Type</u>
MW-1	9/12	4.5-5	<0.05	<0.001	<0.001	<0.001	Gasoline
MW-2	9/12	4.5-5	<0.05	<0.001	<0.001	<0.001	Gasoline
MW-2	9/12	9.5-10	<0.05	<0.001	<0.001	<0.001	Gasoline
S-1	9/12	4.5-10	<0.05	<0.001	<0.001	0.022	Gasoline
S-2	9/12	4.5-5	0.44	<0.001	<0.001	<0.001	Aged Gas
S-3	9/12	4.5-5	34	0.012	0.010	0.055	Aged Gas
	Detection Limit		0.050	0.001	0.001	0.001	Gasoline

Laboratory analytical methods were EPA 5020/8015 for total motor fuel and fuel type and EPA 8020 for benzene, toluene and xylene.



SECTION 3.0

SAMPLING AND ANALYSIS

3.1 Sampling

Prior to excavation cleaning efforts, two soil samples were taken by a registered civil engineer above the water table. These two samples were taken from each side of the tank approximately three feet from the corroded southerly end of the tank. Soil was placed directly into the container without utilizing a sampling trowel. In addition one set of VOA vials were taken for water analysis also at the southerly end of the tank. Both soil and water were examined for total petroleum hydrocarbons (EPA Method 418.7) and BTX (EPA Method 8020). The samples were immediately placed into an ice chest and were shipped to WESTON's Stockton, California Laboratory as recorded on the chain-of-custody form.

3.2 Analysis

Laboratory analysis results are summarized below:

<u>Parameter</u>	<u>Sample ID</u>		
	<u>SPU-01/02</u>	<u>SPU-03</u>	<u>SPU-04</u>
Matrix	Water	Soil	Soil
Total Petroleum Hydrocarbon (TPH)	721 mg/l	681 mg/kg	108 mg/kg
Benzene	2ND	10ND	10ND
Toluene	2ND	10ND	10ND
Ethylbenzene	2ND	10ND	10ND
o - xylene	2ND	10ND	10ND
m - xylene	2ND	10ND	10ND
p - xylene	2ND	10ND	10ND

ND: Not detected at detection limit preceding ND in ug/l.

Additional testing was performed by WESTON's laboratory and found that the sediments within the water sample were the source of TPH contamination. Therefore, while petroleum hydrocarbons are present in the water, their source appears to be aged sources; probably oil and aged gas from previous leakage.

PREVIOUS SITE INVESTIGATION

Field work performed by Azonic Technology included the following activities:

- Removal of two 800 gallon tanks and removal of sludge beneath the leaking tank
- Drilling of 4 soil borings
- Collection of soil samples from each boring and analysis for total hydrocarbons
- Collection of water samples from the bottom of each boring and analysis for total hydrocarbons.

The location of the soil borings (A1-A4) drilled by Azonic are shown in Figure 2. The total hydrocarbon levels in the soil samples ranged from less than 10 mg/Kg to 14 mg/Kg. The total hydrocarbon levels in grab water samples taken from the bottom of the soil borings ranged from 0.7 mg/l to 100 mg/l. No information was available regarding the methods used to collect or preserve the samples.

All four tanks were precision tested. The two 800 gallon oil tanks underlying the northwest corner of the concrete slab were found to have leaked and were excavated and removed by Azonic. Upon excavation, sludge was found underlying the tank site which was also removed by Azonic.

PRESENT SITE INVESTIGATION

Objectives

The objectives of the present field investigation were to determine if hydrocarbons were present in the shallow groundwater underlying the site, and if so, the extent of contamination.

Description of Field Work Conducted

On September 12, 1986, two shallow groundwater monitoring wells were installed and three shallow soil borings were drilled. An eight-inch hollow

Table 1

Groundwater Analytical Data
 ABF Freight System, Inc.
 4575 Tidewater Avenue
 Oakland, California

Sample ID	Sample Date	TOC Well Elevation (feet MSL)	Depth to Groundwater (feet)	Groundwater Elevation (feet MSL)	TPH Oil & Greases (µg/L)	EPA Method										Total Xylenes (µg/L)	Other Detections	
						TPH (µg/L)	TPH without silica gel cleanup (µg/L)	TPH with silica gel cleanup (µg/L)	TPHmo without silica gel cleanup (µg/L)	TPHmo with silica gel cleanup (µg/L)	Acetone (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Naphthalene (µg/L)	Toluene (µg/L)			
Volatiles Organics: 82003																		
MW-1	8/15/1985	11.12	NM	6.56	NA	4,520	NA	NA	NA	NA	NA	1,560	NA	NA	12	1,000		
	10/17/11	11.12	4.56	6.90	<1,300	660	110	4,520	NA	33	8.4	NS	NS	56	1.1	3.3	A	
	2/8/13	11.12	4.22	6.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	5/7/13	11.12	4.28	6.84	NA	660	NA	3,000	NA	NA	NA	19	0.60 b	NA	1.0 b	3.1	None	
	8/1/13	11.12	5.23	5.89	NA	540	NA	4,700	NA	NA	NA	9.6	0.49 b	NS	9.63 b	2.8 b	None	
	2/5/14	11.12	5.56	5.54	NA	360	NA	6,300	NA	NA	NA	1.7	<1.0	51	<5.0	2.6 b	None	
	3/26/15	11.12	4.55	6.57	NA	380	NA	6,900	NA	NA	NA	2.7	<1.0	6.7	<5.0	2.2 b	B	
MW-2	8/15/1985	11.17	NM	7.30	NA	<50	NA	NA	NA	NA	NA	9	NA	NA	<1	<1.0	None	
	10/17/11	11.17	3.87	7.30	1,700	730	64	600	NA	59	11	<0.10	<0.11	1.0	<0.15	<0.50	None	
	2/8/13	11.17	3.67	7.50	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	5/7/13	11.17	4.10	7.07	NA	NA	NA	93 b	NA	NA	NA	<1.0	<1.0	NA	<5.0	<3.0	None	
	8/1/13	11.17	4.63	6.34	NS	<100	NA	440	NA	NA	NA	<1.0	<1.0	NA	<5.0	<3.0	None	
	2/5/14	11.17	5.15	6.02	NA	<100	NA	370	NA	NA	NA	<1.0	<1.0	2.5 b	<5.0	<3.0	None	
	3/26/15	11.17	4.20	6.97	NA	<100	NA	<100	NA	NA	NA	<1.0	<1.0	0.80 b	<5.0	<3.0	None	
MW-3	1/7/13	10.95	3.66	7.28	<10,000	43	NA	300	NA	NA	NA	<1.0	<1.0	NA	<5.0	<3.0	None	
	2/8/13	10.96	3.98	6.88	NS	NS	NS	NS	NS	NS	NS	<1.0	<1.0	NA	<5.0	<3.0	None	
	5/7/13	10.96	4.56	6.40	NA	<100	NA	950	NA	NA	NA	<1.0	<1.0	NA	<5.0	<3.0	None	
	8/1/13	10.96	5.24	5.72	NA	<100	NA	700	NA	NA	NA	<1.0	<1.0	NA	<5.0	<3.0	None	
	2/5/14	10.96	5.59	5.37	NA	<100	NA	730	NA	NA	NA	<1.0	<1.0	NA	<5.0	<3.0	None	
	3/26/15	10.96	4.83	6.33	NA	<100	NA	<100	NA	NA	NA	<1.0	<1.0	NA	<5.0	<3.0	None	
MW-4	1/7/13	11.60	3.91	7.69	<10,000	<100	NA	540	NA	NA	NA	<1.0	<1.0	NA	<5.0	<3.0	MTBE = 2.1	
	2/8/13	11.60	3.31	8.29	NS	NS	NS	2,400	NA	NS	NS	NS	NS	NS	NS	NS	NS	
	5/7/13	11.60	3.20	8.40	NA	31 b	NA	1,500	NA	NA	NA	2.5	<1.0	NA	<5.0	<3.0	MTBE = 1.2	
	8/1/13	11.60	4.53	7.07	NA	<100	NA	1,200	NA	NA	NA	<1.0	<1.0	NA	<5.0	<3.0	MTBE = 1.2	
	2/5/14	11.60	4.65	6.75	NA	<100	NA	310	NA	NA	NA	<1.0	<1.0	NA	<5.0	<3.0	None	
	3/26/15	11.60	4.31	7.29	NA	<100	NA	2,700	NA	NA	NA	<1.0	<1.0	1.1	<5.0	<3.0	C	
ESL Industrial Land Use, Non-Drinking Water Source, Aquatic Habitat Protection																		
	3/26/16				640	500	640	640	640	640	1,500	46	43	24	130	100		

Sample ID	Sample Date	Depth to Groundwater (ft)	Polynuclear Aromatic Hydrocarbons - EPA METHOD 8270C										Other Detections
			Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Benzo (a) anthracene (µg/L)	Anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Naphthalene (µg/L)	1-Methyl naphthalene (µg/L)	2-Methyl naphthalene (µg/L)	Phenanthrene (µg/L)	
MW-1	10/17/11	4.55	0.69	0.20	ND	0.056	0.049	1.5	31	13	0.29	0.041	None
	5/7/13	4.26	0.82	<0.050	<0.050	0.065	0.049	1.5	36	14	<0.25	0.029 b	None
	8/1/13	5.23	1.1	0.28	<0.050	0.063	1.8	17	56	17	0.42	0.059	None
	2/5/14	5.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	None
	3/26/15	4.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	None
MW-2	10/17/11	3.87	0.007	<0.011	ND	<0.013	<0.016	0.022	0.57	0.096	<0.018	0.021	None
	5/7/13	4.10	0.17	<0.050	<0.050	0.069 b	0.016 b	0.016 b	2.6	0.20 b	<0.050	0.014 b	None
	8/1/13	4.83	0.021 b	<0.050	<0.050	0.050	<0.050	<0.050	<0.25	0.010 b	0.0091 b	0.014 b	None
	2/5/14	5.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	None
	3/26/16	4.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	None

Table 1
Groundwater Analytical Data
ABF Freight System, Inc.
4575 Tidewater Avenue
Oakland, California

Sample ID	Sample Date	Depth to Groundwater (ft)	Polynuclear Aromatic Hydrocarbons - EPA METHOD 8270C											Other Detections
			Acenaphthylene (µg/L)	Acenaphthene (µg/L)	Anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Naphthalene (µg/L)	1-Methyl naphthalene (µg/L)	2-Methyl naphthalene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)		
MW-3	1/7/13	3.66	<0.25	0.022	<0.25	<0.25	0.32	4.3	2.2	1.2	0.12	<0.25	None	
	5/7/13	4.96	0.044 b	<0.050	0.025 b	0.13	0.61	0.62	0.27	0.034 b	<0.050	None		
	8/1/13	5.24	0.073	<0.050	0.019 b	0.12	0.91	0.65	0.28	0.031 b	<0.050	None		
	2/5/14	5.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	None		
MW-4	3/26/15	4.63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	None	
	1/7/13	3.91	0.37	0.065	<0.25	0.26	1.2	2.1	0.76	0.068	<0.25	None		
	5/7/13	3.20	6.5	0.068	0.16	2.4	3.5	18	3.0	2.7	0.051	None		
	8/1/13	4.4	4.4	<0.050	0.10	3.0	5.6	12	3.3	1.7	0.042 b	None		
	2/5/14	4.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	None		
3/26/15	4.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	None			
ESL			23	30	0.027	0.73	8.0	3.9	24	NLE	2.1	4.6	2.0	

(Industrial Land Use, Non-Drinking Water Sources, Aquatic Habitat Protection)

Notes:

N/A: Please reference lab report for all qualifiers and notes.

Bold = Most current laboratory data

ID = Identification

TOC = top of casing

MSL = mean sea level

EPA = Environmental Protection Agency

TPH = Total Petroleum Hydrocarbons, gas/line-range organics

TPH10 = Total Petroleum Hydrocarbons, diesel-range organics (sum of C10-C22 and C22-C32 hydrocarbons)

TPH40 = Total Petroleum Hydrocarbons, motor-oil range organics (C32-C40 hydrocarbons)

MTBE = methyl-tert-butyl-ether

ESL = Environmental Screening Level (ESL) listed in

Water Quality Control Board, California EPA, http://www.waterboards.ca.gov/wqcb2/water_issues/programs/esl.html, updated December 2013

NA = Not measured

NS = Not sampled

NA = Not analyzed

MW = Monitoring Well

µg/L = micrograms per liter (equivalent to parts per billion)

< = not detected at above detection limit

MDL = Minimum detection limit

TPH = Total petroleum hydrocarbons

A = The following analytes were detected above MDL: n-Butylbenzene 2.6 µg/L, iso-Butylbenzene 1.9 µg/L, tert-Butylbenzene 14 µg/L, n-Hexane 7.9 µg/L, Isopropylbenzene 11 µg/L, n-Propylbenzene 21 µg/L, and 1,2,3-trimethylbenzene 1.2 µg/L.

B = The following analyte was detected above MDL: chloroform 0.56 µg/L.

C = The following analytes were detected above MDL: 1,2-Dichlorobenzene 0.65 µg/L with a "b" note

NLE = No level established

a = Data reported in Weston report dated February 25, 1997, analysis by EPA Methods 5020/8015/9020, Weston report listed "Motor Fuel" analysis which Trinity is reporting under TPH

b = Estimated value below the lowest calibration point. Confidence correlates with concentration.

c = The sample matrix interfered with the ability to make any accurate determination; spike value is high

Table 2
Grab-Groundwater Analytical Data

ABF Freight System Facility
4575 Tidewater Avenue
Oakland, California

Sample ID#	Sample Date	TPHg (µg/L)	Diesel Range Organics*				Total TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (Total) (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Other VOCs (µg/L)
			C10-C22 (µg/L)	C22-C32 (µg/L)	C32-C40 (µg/L)	C40 (µg/L)								
B-2	5/21/2012	<100	76	<100	<100	76	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0	ND	
B-3	5/22/2012	490	1,000	71 ^a	60 ^a	1,131	0.99 ^a	<5.0	<1.0	<3.0	<1.0	13	Acetone = 24, n-Butylbenzene = 3.7, sec-Butylbenzene = 1.3, tert-Butylbenzene = 5.4, Carbon disulfide = 0.36, n-Propylbenzene = 6.0	
B-4	5/21/2012	230	600	<100	<100	600	0.97	0.31 ^a	0.51	<3.0	<1.0	7.6	n-Butylbenzene = 0.48, sec-Butylbenzene = 0.35, tert-Butylbenzene = 1.1, n-Propylbenzene = 2.2, 1,2,4-Trimethylbenzene = 0.61	
B-6	5/21/2012	<100	140	<100	<100	140	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0	ND	
B-8	5/21/2012	120	1400	100	<100	1,500	<1.0	<5.0	<1.0	<3.0	3.1	1.6	Acetone = 29, sec-Butylbenzene = 0.73 tert-Butylbenzene = 0.82	
B-9	5/22/2012	<100	180 ^b	<100	<100	180	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0	Acetone = 30	
B-10	5/22/2012	59 ^a	2,300 ^b	100	<100	2,400	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0	tert-Butylbenzene = 1.0, n-Propylbenzene = 0.42	
B-11	5/22/2012	<100	660 ^b	<100	<100	660	<1.0	<5.0	<1.0	<3.0	<1.0	<5.0	ND	
B-12	12/17/2012	44 ^a	440	NA	NA	440	<1.0	<5.0	0.63 ^a	1.9 ^a	<1.0	11	ND**	

SFRWQCB ESLs (µg/L) Non Drinking Water Source Commercial Property Use
640 46 130 43 100 1,800 24

Notes:

* = Silica gel cleanup was completed on diesel-range organics analysis

** = Additional VOCs analyzed included MTBE, di-isopropyl ether, ethanol, ethyl tert-butyl ether, tert-butyl alcohol, tert-amyl methyl ether, 1,2-dibromoethane and 1,2-dichloroethane

< = less than indicated reported detection limit

µg/L = micrograms per Liter (µg/L), also equivalent to parts per billion (ppb)

ND = Not Detected

NA = Not Analyzed

TPHg = Total Petroleum Hydrocarbons - Gasoline

TPHd = Total Petroleum Hydrocarbons - Diesel

MTBE = Methyl Tertiary-Butyl Ether

VOCs = Volatile Organic Compounds

a = Estimated value below the lowest calibration point. Confidence correlates with concentration

b = This sample has responded in the Diesel range, however it does not appear to be a hydrocarbon product

ESL = Environmental Screening Level

SFRWQCB = San Francisco Bay Regional Water Quality Control Board, California EPA, http://www.waterboards.ca.gov/hwqcb2/water_issues/programs/esl.shtml (February 2013)

Table 1
Soil Analytical Data

ABF Freight System, Inc.
4575 Tidewater Avenue
Oakland, California

Sample ID	Sample Date	Sample Depth (Feet)	EPA Analytical Test Method													8015 (mg/kg)	
			TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,1-DCE	cis-1,2-DCE	PCE	TCE	Vinyl Chloride	Carbon Tetrachloride	Other Compounds	TPHd	TPHmo	
SB-1	8/26/2014	3.5	<0.57	0.00051 ^A	<0.0057	<0.0011	<0.0034	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<4.5	0.89 ^A
SB-2	8/26/2014	3.5	<0.56	<0.0012	<0.0056	<0.0012	<0.0035	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<46	20 ^A
SB-3	8/26/2014	3.5	<0.60	<0.0012	0.00088 ^A	<0.0012	<0.0036	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	3.2 ^A	5.3
SB-4	8/26/2014	3.5	<0.57	<0.0011	<0.0057	<0.0011	<0.0034	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<46	5.6 ^A
SB-5	8/26/2014	3.5	<0.56	<0.0011	<0.0056	<0.0011	<0.0034	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<45	87
SB-6	8/26/2014	3.5	<0.56	0.00042 ^A	<0.0056	<0.0011	<0.0034	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<4.5	3.6 ^A
SB-7	8/27/2015	3.0	<2.89	<0.00579	<0.0289	<0.00579	<0.0174	<0.00579	<0.00579	<0.00579	<0.00579	<0.00579	<0.00579	<0.00579	<0.00579	13.4 ^B	245.1
		5.5	<2.87	<0.00575	<0.0287	<0.00575	<0.0172	<0.00575	<0.00575	<0.00575	<0.00575	<0.00575	<0.00575	<0.00575	<0.00575	1.49 ^B	<4.60
		10.5	<2.98	<0.00596	<0.0298	<0.00596	<0.0179	<0.00596	<0.00596	<0.00596	<0.00596	<0.00596	<0.00596	<0.00596	<0.00596	<4.77	<4.77
SB-8	8/27/2015	3.0	<2.97	<0.00595	<0.0297	<0.00595	<0.0178	<0.00595	<0.00595	<0.00595	<0.00595	<0.00595	<0.00595	<0.00595	<0.00595	7.96 ^B	115.2
		6.0	<2.98	<0.00597	<0.0298	<0.00597	<0.0179	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	0.898 ^B	4.94 ^B
		9.5	<2.93	<0.00587	<0.0293	<0.00587	<0.0176	<0.00587	<0.00587	<0.00587	<0.00587	<0.00587	<0.00587	<0.00587	<0.00587	<4.69	<4.69

Commercial SFRWQCB ESLs - Shallow Sol Screening Levels - Not a Current or Potential Drinking Water Resource

500	1.2	9.3	4.7	11	1.9	18	2.6	8.3	0.16	0.58	NLE	110	500
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Notes:

EPA = Environmental Protection Agency
 SB = Soil Boring
 TPHg = Total Petroleum Hydrocarbons - Gasoline Range
 1,1-DCE = 1,1-dichloroethene
 cis-1,2-DCE = cis-1,2-dichloroethene
 PCE = Tetrachloroethene
 TCE = Trichloroethene
 TPHd = Total Petroleum Hydrocarbons - Diesel Range (C10-C28 for SB-1 through SB-6, C12-C22 for SB-7 and SB-8)
 TPHmo = Total Petroleum Hydrocarbons - Motor Oil Range (C28-C40 for SB-1 through SB-6, sum of C22-32 and C32-C40 for SB-7 and SB-8)
 mg/kg = Milligrams per kilogram
 < = Not detected at or above detection limit
 Bold = Exceeds ESL concentration
 ND = Not detected at or above laboratory detection limits
 NLE = No limit established
 A = Estimated value below the lowest calibration point. Confidence correlates with concentration.

B = The identification of the analyte is acceptable; the reported value is an estimate.
 C = 1,2,3-Trichlorobenzene detected at a concentration of 0.00246^B mg/kg. There is no Environmental Screening Level established for 1,2,3-Trichlorobenzene.
 SFRWQCB = San Francisco Bay Regional Water Quality Control Board, California EPA, December 2013.
http://www.waterboards.ca.gov/wqcb2/water_issues/programs/esl.shtml
 ESLs = Environmental Screening Levels (Updated December 2013)

Table 2
Grab-Groundwater Analytical Data

ABF Freight System, Inc.
4875 Tidewater Avenue
Oakland, California

Sample ID	Sample Date	EPA Analytical Test Method											SOL (ppb)		
		TPH _g	Benzene	Toluene	Ethylbenzene	Xylenes	1,1-DCE	cis-1,2-DCE	PCE	TCE	Vinyl Chloride	Carbon Tetrachloride	Other Compounds	TPH _g	TPH _{inc}
Grab Groundwater Samples Collected From SB-1 Borings															
SB-1	8/29/2014	<5.00	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	400	180
SB-2	8/29/2014	<5.00	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	500	210	
SB-3	8/29/2014	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	ND	NA	NA	
SB-4	8/29/2014	810	0.61 ^A	0.78 ^A	3.0	8.1	<1.0	<1.0	<1.0	<1.0	<1.0	ND	6,200	1,200	
SB-5	8/29/2014	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	ND	NA	NA	
SB-6	8/29/2014	<5.00	<1.0	<5.00 ^C	<1.0 ^C	<3.0 ^C	<1.0 ^{B,E}	<1.0	<1.0 ^C	<1.0	<1.0 ^B	ND	170	110	
SB-7	8/27/2013	<5.00	<1.00	<5.00	<1.00	<3.00	<1.00	<1.00	<1.00	<1.00	<1.00	ND	190	260 ^D	
SB-9	8/27/2013	<5.00 ^B	<1.00	<5.00	0.61 ^D	1.5 ^D	<1.00	<1.00	<1.00	<1.00	<1.00	F	320	190.7 ^D	
Commercial SFRWOCB ESLE - Groundwater Screening Levels - Aquatic Responder, Not at Current or Potential Drinking Water Resources															
500	46	130	43	100	25	580	120	360	780	640	640	640	640	640	

Notes:

EPA = Environmental Protection Agency
 SB = Soil Boring
 TPH_g = Total Petroleum Hydrocarbons - Gasoline Range
 1,1-DCE = 1,1-dichloroethene
 cis-1,2-DCE = cis-1,2-dichloroethene
 PCE = Tetrachloroethene
 TCE = Trichloroethene
 TPH_{inc} = Total Petroleum Hydrocarbons - Diesel Range (C10-C28) for SB-1 through SB-4, C12-C22 for SB-7 and SB-8
 TPH_g = Total Petroleum Hydrocarbons - Motor Oil Range (C29-C40) for SB-1 through SB-6, sum of C22-C32 and C32-C40 for SB-7 and SB-9
 (SB-9), indicated detections are sum of reported detections for C32-C32 and C32-C40 for SB-7 and SB-9.
 µg/L = Micrograms per liter
 < = Not detected at or above detection limit
 NA = Not analyzed
 ND = Not detected at or above detection limit
 A = Estimated value below the lowest calibration point. Confidence correlates with concentration.
 B = The associated batch QC was outside the established quality control range for detection.
 C = The sample matrix interfered with the ability to make any accurate determination; spike value is high.
 D = The identification of the analyte is acceptable; the reported value is an estimate.

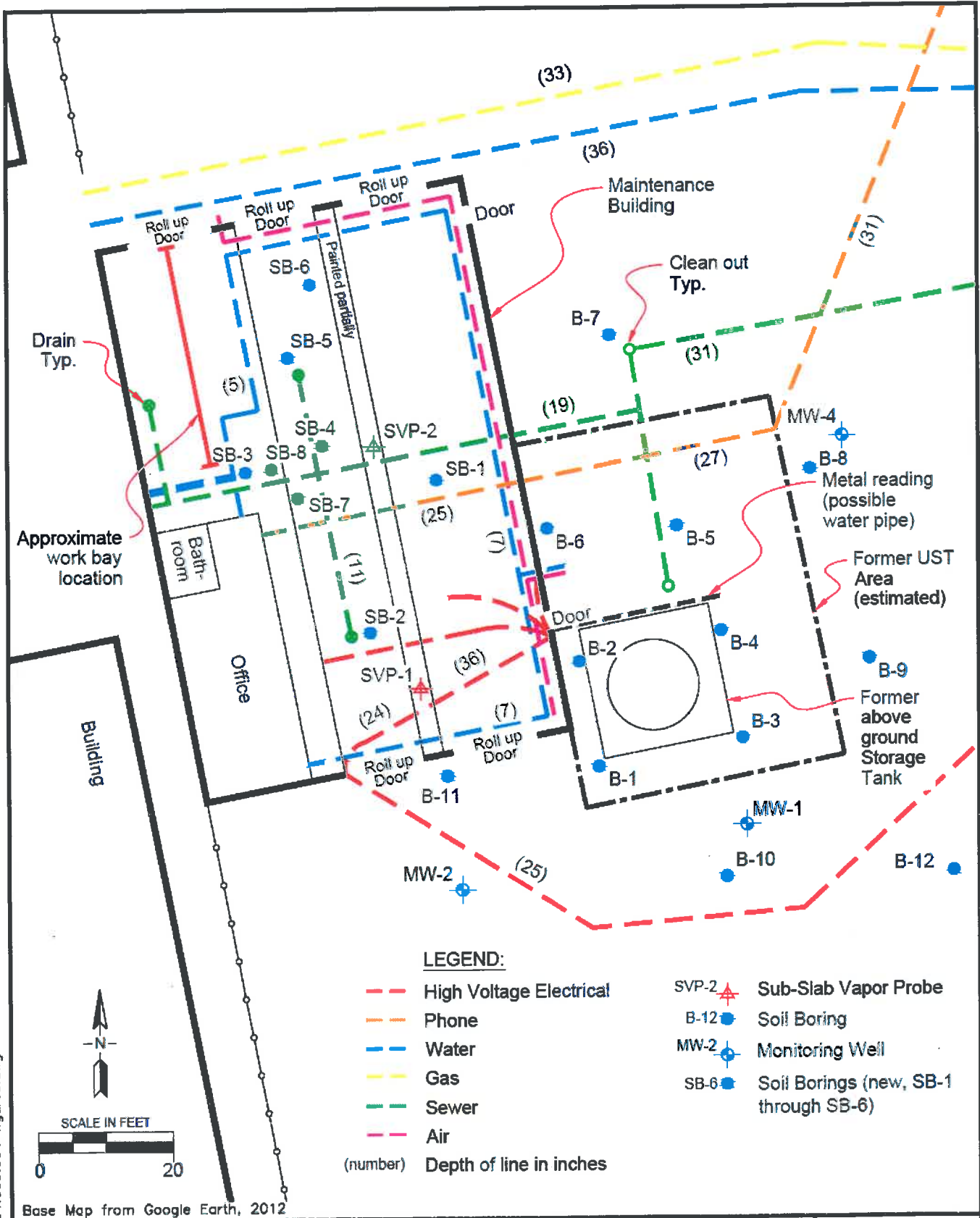
ATTACHMENT 4

Attachment 4 – Vapor Intrusion Evaluation and Data

LTCP VAPOR SPECIFIC CRITERIA - PETROLEUM								
Closure Scenario								
Exemption: <input type="checkbox"/> Active fueling station exempt from vapor specific criteria; Active as of date: _____								
<input type="checkbox"/> Scenario 1; <input type="checkbox"/> Scenario 2; <input type="checkbox"/> Scenario 3a; <input type="checkbox"/> Scenario 3b; <input type="checkbox"/> Scenario 4a without bioattenuation zone; <input type="checkbox"/> Scenario 4b with bioattenuation zone; <input type="checkbox"/> Site specific risk assessment demonstrates human health is protected; <input type="checkbox"/> Exposure controlled through use of mitigation measures or institutional controls; <input checked="" type="checkbox"/> Case closed in spite of not meeting the vapor specific media criteria								
Shading indicates Site Specific Data and Bold Text indicates Evaluation Criteria								
Site Specific Data		Scenario 1	Scenario 2	Scenario 3A	Scenario 3B	Scenario 3C	Scenario 4a	Scenario 4b
Unweathered LNAPL	LNAPL in gw	LNAPL in gw	LNAPL in soil	No LNAPL	No LNAPL	No LNAPL	No criteria	No criteria
Thickness of Bioattenuation Zone Beneath Foundation	≥ 3.31 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	No criteria	≥ 5 feet
Depth to Shallowest Groundwater	3.31 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥ 5 feet	≥ 5 feet	≥ 5 feet
Total TPHg & TPHd in Soil in Bioattenuation Zone	660 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	No criteria	<100 mg/kg
Maximum Current Benzene Concentration in Groundwater	2.7 µg/L	No criteria	No criteria	<100 µg/L	≥100 and <1,000 µg/L	<1,000 µg/L	No criteria	No criteria
Oxygen Data in Bioattenuation Zone	17.1 – 20 %	No criteria	No criteria	No oxygen data or <4%	No oxygen data or <4%	≥4%	No criteria	≥4% at bottom of zone
Soil Vapor Depth Beneath Foundation	NA (sub-slab)	No criteria	No criteria	No criteria	No criteria	No criteria	5 feet	5 feet
Benzene Concentrations (µg/m ³)	Historic Max: < 6.5 Current Max: < 6.5	No criteria	No criteria	No criteria	No criteria	No criteria	Res: < 85; Com: < 280	Res: < 85K; Com: < 280K
Ethylbenzene Concentrations (µg/m ³)	Historic Max: 20 Current Max: 9.6	No criteria	No criteria	No criteria	No criteria	No criteria	Res: < 1,100; Com: < 3,600	Res: < 1,100K; Com: < 3,600K
Naphthalene Concentrations (µg/m ³)	Historic Max: 3.4 Current Max: 2.0	No criteria	No criteria	No criteria	No criteria	No criteria	Res: < 93; Com: < 310	Res: < 93K; Com: < 310K

Attachment 4 – Vapor Intrusion Evaluation and Data

LTCP VAPOR SPECIFIC CRITERIA – PETROLEUM (cont.)	
Vapor Intrusion to Indoor Air Analysis	
Onsite	<p>Due to very shallow groundwater a vapor point could not be installed to a depth of five feet below the depth of the foundation of the building. Therefore, the site does not meet the Low Threat Closure Policy for vapor. However, sub-slab vapor samples were collected beneath the adjacent maintenance shop building and all volatile hydrocarbon contaminant concentrations are below Environmental Screening Levels promulgated by the San Francisco Bay Regional Water Quality Control Board (RWQCB).</p> <p>While not apparently necessary, it should be noted that the building is a maintenance shop with two roll-up doors that provide substantial ventilation.</p> <p>Future exposure will be controlled a commercial land use restriction to the existing development.</p>
Offsite	<p>The petroleum hydrocarbon plume does not extend offsite.</p>



REF. 154_001\154.009.004 figures.dwg

Base Map from Google Earth, 2012

PREPARED BY



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SOIL BORINGS, SUB-SLAB VAPOR PROBE, UTILITIES LOCATION MAP

ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

PROJECT:
154.009.005

FIGURE:
2

Table 4
Sub-Slab Vapor Analytical Data

ABF Freight System Facility
4575 Tidewater Avenue
Oakland, California

Sample ID	Sample Date	Analytical Test Methods										EPA TO-17					
		ASTM D-1946					EPA TO-15					Naphthalene (µg/m ³)	TPHd (µg/m ³)				
		Carbon Dioxide (%)	Methane (%)	Oxygen (%)	Helium (%)	PCE (µg/m ³)	1,1,2-TCA (µg/m ³)	1,2,4-TMB (µg/m ³)	TPHg (µg/m ³)	Benzene (µg/m ³)	Toluene (µg/m ³)			Ethyl Benzene (µg/m ³)	Ethyl Acetate (µg/m ³)	Total Xylenes (µg/m ³)	Ethanol (µg/m ³)
SVP-1	6/20/2012	2.2	<0.0001	16	0.049	60	<11	<10	<1,800	<2.8	<7.7	<8.8	20	<27	180	ND	<2.0
SVP-1	12/17/2012	0.8	<0.0002	20	0.23	16	<11	<10	1,300	<6.5	<7.7	9.6	33	77	290	Acetone, 340	<0.6
SVP-1	1/17/2013	0.8	<0.0002	20	0.23	16	<11	<10	1,300	<6.5	<7.7	9.6	33	77	290	Acetone, 340	2.0
SVP-2	6/20/2012	0.22	0.00018	18	<0.005	530	38	13	1,900	2.9	11	20	19	160	100	Acetone, 230	3.4
SVP-2	12/17/2012	1.1		40	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		<0.6
SVP-2	1/17/2013	1.21	<0.0009	17.1	NA	901	<0.03	0.02	NA	0.03	0.02	<0.02	<0.02	0.04	NA	Acetone, 20.4	<0.6
SVP-2	2/5/2013	1.22	<0.0009	17.1	NA	901	<0.03	0.02	NA	0.03	0.02	<0.02	<0.02	0.04	NA	Acetone, 20.4	<0.6
SVP-2 (QC Sample)	2/5/2013	1.22	<0.001	17.3	NA	971	<0.03	0.064	450*	0.15	0.21	<0.02	<0.02	0	NA	Acetone, 67.1	<0.6
												1,1-DFE, 12.5 (leak check) Others as listed on Certified Analytical Report					
												Acetone, 67.1 1,1-DFE, 426 (leak check) Others as listed on Certified Analytical Report					

Notes:

- ID = Identification
- % = Percentage
- µg/m³ = micrograms per meter cubed
- PCE = Tetrachloroethene
- 2 - TCA = 1,1,2 - Trichloroethane
- 4 - TMB = 1,2,4 - Trimethylbenzene
- TPHg = Total Petroleum Hydrocarbons as Gasoline
- 1,1-DFE = 1,1-Difluoroethane
- ASTM = American Society for Testing Materials

ESLs for Commercial Indoor Air	2.1	0.77	NA	3,100	0.42	1,300	4.9	NA	440	NA	NA	0.36
Attenuated Commercial Indoor Air	42	15.4	NA	62,000	8.4	26,000	98	NA	8800	NA	NA	7.2

Table 4
Sub-Slab Vapor Analytical Data

ABF Freight System Facility
4575 Tidewater Avenue
Oakland, California

< = Not detected at or above detection limit
ND = Not detected
NA = Not applicable
Bold = data detected above laboratory detection limits
* Duplicate sampled was analyzed for TPHg, result of 450 ($\mu\text{g}/\text{m}^3$) was attributed to single discrete peak (PCE).
ESLs = Environmental Screening Levels (February 2013)
RWQCB = San Francisco Bay Regional Water Quality Control Board, California EPA
http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml (February 2013)
a= Attenuation factor for existing commercial building sub-slab from the DTSC-CEPA Vapor Intrusion Guidance (2011) is 0.05

ATTACHMENT 5

Attachment 5 – Direct Contact Evaluation and Data

LTCP DIRECT CONTACT AND OUTDOOR AIR EXPSURE CRITERIA						
Closure Scenario						
<p>___ Exemption (no petroleum hydrocarbons in upper 10 feet), ___ Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1 below, ___ Site-specific risk assessment, <u>X</u> A determination has been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health, ___ A determination has been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health as a result of controlling exposure through the use of mitigation measures or through the use of institutional controls, ___ This case should be closed in spite of not meeting the direct contact and outdoor air specific media criteria.</p>						
Shading indicates Site Specific Data and Bold Text indicates Evaluation Criteria						
Are maximum concentrations less than those in Table 1 below?			No			
Constituent		Residential		Commercial/Industrial		Utility Worker
		0 to 5 feet bgs (mg/kg)	Volatilization to outdoor air (5 to 10 feet bgs) mg/kg	0 to 5 feet bgs (mg/kg)	Volatilization to outdoor air (5 to 10 feet bgs) mg/kg	0 to 10 feet bgs (mg/kg)
Site Maximum	Benzene	< 0.0062	< 0.13	< 0.0062	< 0.13	< 0.13
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	< 0.0062	< 0.0085	< 0.0062	< 0.0085	< 0.0085
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314
Site Maximum	Naphthalene	< 0.030	<0.50	< 0.030	<0.50	<0.50
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219
Site Maximum	PAHs	----	< 0.0071	----	< 0.0071	----
LTCP Criteria	PAHs	≤0.063	NA	≤0.68	NA	≤4.5
Direct Contact and Outdoor Air Analysis						
Onsite		<p>This site does not meet this LTCP criterion due to the lack of analysis in soil for poly-aromatic hydrocarbons (PAHs) between 0 and 5 feet below grade surface (bgs). Available data indicates that outside of the former UST excavation area, contaminant migration occurred through groundwater migration. Depth to groundwater is documented to have ranged between 3.31 and 5.59 feet bgs over the period of investigation (approximately 3.5 years). ACDEH concludes that the potential for residual PAH soil contamination to be present beneath the site at concentrations over the LTCP media-specific numeric values listed above is unlikely.</p> <p>Additionally, under the current land use, most of the site is paved with minor landscaped areas near the site boundaries resulting in a low potential for direct contact exposure under the current land use. Excavation or construction activities in areas of potential residual contamination will be managed with a land use restriction, and require planning and implementation of appropriate health and safety procedures by the responsible party, or current property owner, prior to and during excavation and construction activities.</p>				
Offsite		The petroleum hydrocarbon plume does not extend offsite.				



SECTION 3.0

SAMPLING AND ANALYSIS

3.1 Sampling

Prior to excavation cleaning efforts, two soil samples were taken by a registered civil engineer above the water table. These two samples were taken from each side of the tank approximately three feet from the corroded southerly end of the tank. Soil was placed directly into the container without utilizing a sampling trowel. In addition one set of VOA vials were taken for water analysis also at the southerly end of the tank. Both soil and water were examined for total petroleum hydrocarbons (EPA Method 418.7) and BTX (EPA Method 8020). The samples were immediately placed into an ice chest and were shipped to WESTON's Stockton, California Laboratory as recorded on the chain-of-custody form.

3.2 Analysis

Laboratory analysis results are summarized below:

<u>Parameter</u>	<u>Sample ID</u>		
	<u>SPU-01/02</u>	<u>SPU-03</u>	<u>SPU-04</u>
Matrix	Water	Soil	Soil
Total Petroleum Hydrocarbon (TPH)	721 mg/l	681 mg/kg	108 mg/kg
Benzene	2ND	10ND	10ND
Toluene	2ND	10ND	10ND
Ethylbenzene	2ND	10ND	10ND
o - xylene	2ND	10ND	10ND
m - xylene	2ND	10ND	10ND
p - xylene	2ND	10ND	10ND

ND: Not detected at detection limit preceding ND in ug/l.

Additional testing was performed by WESTON's laboratory and found that the sediments within the water sample were the source of TPH contamination. Therefore, while petroleum hydrocarbons are present in the water, their source appears to be aged sources; probably oil and aged gas from previous leakage.

Table 1

RESULTS OF SOIL AND WATER SAMPLING

Water Samples

<u>Well No.</u>	<u>Sample Date/Time</u>	<u>Sample Depth, ft</u>	<u>Motor Fuel (mg/l)</u>	<u>Benzene (mg/l)</u>	<u>Toluene (mg/l)</u>	<u>Xylene (mg/l)</u>	<u>Fuel Type</u>
MW-1	9/15 11:30 am	5-10	4.52	1.59	0.012	1.0	Gasoline
MW-2	9/15 11:45 am	5-10	<0.05	0.009	<0.001	<0.001	Gasoline

Soil Samples

<u>Well No.</u>	<u>Sample Date/Time</u>	<u>Sample Depth, ft</u>	<u>Motor Fuel (mg/l)</u>	<u>Benzene (mg/l)</u>	<u>Toluene (mg/l)</u>	<u>Xylene (mg/l)</u>	<u>Fuel Type</u>
MW-1	9/12	4.5-5	<0.05	<0.001	<0.001	<0.001	Gasoline
MW-2	9/12	4.5-5	<0.05	<0.001	<0.001	<0.001	Gasoline
MW-2	9/12	9.5-10	<0.05	<0.001	<0.001	<0.001	Gasoline
S-1	9/12	4.5-10	<0.05	<0.001	<0.001	0.022	Gasoline
S-2	9/12	4.5-5	0.44	<0.001	<0.001	<0.001	Aged Gas
S-3	9/12	4.5-5	34	0.012	0.010	0.055	Aged Gas
	Detection Limit		0.050	0.001	0.001	0.001	Gasoline

Laboratory analytical methods were EPA 5020/8015 for total motor fuel and fuel type and EPA 8020 for benzene, toluene and xylene.

12	5/21/12	<0.66	5.5	<0.0066
15	5/21/12	<0.99	10	<0.0099
9	5/21/12	<3.6	<5.8	<0.0073
17	5/21/12	<4.6	2.8	<0.0092

10	5/21/12	<0.94	4.1	<0.0094
----	---------	-------	------------	---------

7	5/22/12	<0.74	31.4	<0.0074
15	5/22/12	<0.98	2.5	<0.0098

4	5/21/12	<0.62	520	<0.0062
12	5/21/12	<0.72	25.4	<0.0072
15	5/21/12	<1.0	30	<0.010
25	5/21/12	<0.60	3	<0.0060

10	5/21/12	<0.85	5.3	<0.0085
15	5/21/12	<0.96	10.9	<0.0096

8	5/21/12	<0.68	3.3	<0.0068
15	5/21/12	<0.96	5.4	<0.0096

5	5/21/12	<0.60	16.1	<0.0060
15	5/21/12	<1.0	28	<0.010

4	5/22/12	<0.60	5.6	<0.0060
14	5/22/12	<0.93	28	<0.0093

9	5/22/12	6.0	85	<0.0059
15	5/22/12	<0.99	4.2	<0.0099
19	5/22/12	<0.84	3	<0.0084

4	5/21/12	<0.60	14.3	<0.0060
15	5/21/12	<0.92	4.8	<0.0092

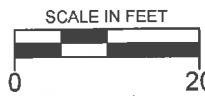
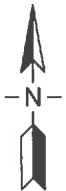
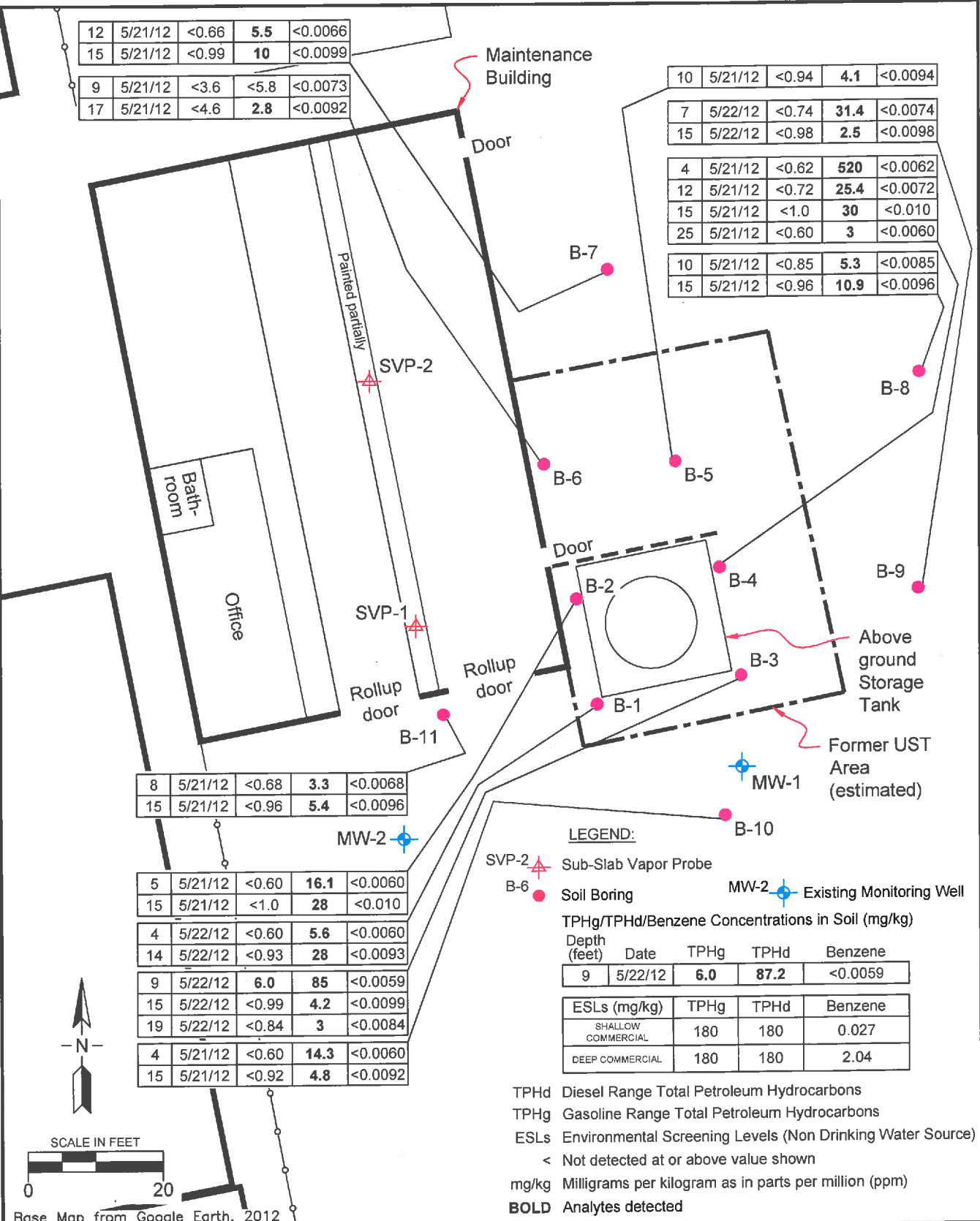
- LEGEND:**
- SVP-2 Sub-Slab Vapor Probe
 - B-6 Soil Boring
 - MW-2 Existing Monitoring Well

TPHg/TPHd/Benzene Concentrations in Soil (mg/kg)

Depth (feet)	Date	TPHg	TPHd	Benzene
9	5/22/12	6.0	87.2	<0.0059

ESLs (mg/kg)	TPHg	TPHd	Benzene
SHALLOW COMMERCIAL	180	180	0.027
DEEP COMMERCIAL	180	180	2.04

- TPHd Diesel Range Total Petroleum Hydrocarbons
- TPHg Gasoline Range Total Petroleum Hydrocarbons
- ESLs Environmental Screening Levels (Non Drinking Water Source)
- < Not detected at or above value shown
- mg/kg Milligrams per kilogram as in parts per million (ppm)
- BOLD** Analytes detected



Base Map from Google Earth, 2012

REF. 154_001\154.004.005 figures.dwg

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SOIL ANALYTICAL DATA MAP

ABF Freight Systems Facility
4575 Tidewater Avenue
Oakland, California

PROJECT:
154.004.005

FIGURE:
4

Table 1
Soil Analytical Data

ABF Freight System Facility
4575 Tidewater Avenue
Oakland, California

Sample ID#	Sample Date	Sample Depth (ft)	Diesel Range Organics*				Total TPHid (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (Total) (mg/kg)	Naphthalene (mg/kg)	Other VOCs (mg/kg)	PAHs (mg/kg)
			C10-C22 (mg/kg)	C22-C32 (mg/kg)	C32-C40 (mg/kg)	TPHd (mg/kg)								
Soil Borings - May 2012														
B-1	5/22/2012	4	<4.8	<4.8	5.6 ^d	5.6	<0.0060	<0.030	<0.0060	<0.018	<0.030	ND	NA	
B-1	5/22/2012	14	<4.8	13	15	28	<0.0093	<0.046	<0.0093	<0.028	<0.046	ND	NA	
B-2	5/21/2012	5	<4.8	5.1 ^e	11 ^{b,d}	16.1	<0.0060	<0.030	<0.0060	<0.018	<0.030	ND	NA	
B-2	5/21/2012	15	<4.8	14 ^e	14 ^d	28	<0.010	<0.050	<0.010	<0.030	<0.050	ND	NA	
B-3	5/22/2012	9	14	14	71	87.2	<0.0059	<0.030	<0.0059	<0.018	<0.030	n-Propylbenzene = 0.0022 ^a	NA	
B-3	5/22/2012	15	<8.0	4.2 ^a	4.2	4.2	<0.0099	0.0034 ^a	<0.0099	<0.030	<0.050	ND	NA	
B-3	5/22/2012	19	<6.7	3.0 ^a	3.0	3.0	<0.0084	<0.042	<0.0084	<0.025	<0.042	ND	NA	
B-4	5/21/2012	4	140	340	180	660	<0.0062	<0.031	<0.0062	<0.018	<0.031	ND	NA	
B-4	5/21/2012	12	<5.8	2.4 ^a	23 ^d	25.4	<0.0072	<0.036	0.017	0.0034 ^a	0.0052 ^a	isopropylbenzene = 0.0024 ^a	NA	
B-4	5/21/2012	15	<8.0	14 ^e	16 ^d	30	<0.010	<0.050	<0.010	<0.030	0.0076 ^a	n-Propylbenzene = 0.0034 ^a	NA	
B-4	5/21/2012	25	<4.8	3.0 ^a	3.0	3.0	<0.0060	<0.030	<0.0060	<0.018	<0.030	ND	NA	
B-5	5/21/2012	10	3.7 ^a	<7.5	4.1 ^a	7.8	<0.0094	<0.047	<0.0094	<0.028	<0.047	ND	NA	
B-6	5/21/2012	9	<5.8 ^f	<5.8 ^f	<5.8 ^f	<5.8	<0.0073	<0.036	<0.0073	<0.022	<0.036 (EPA Method 8270C) 0.0079 (EPA Method 8260B)	ND	Benzo(a)anthracene = 0.0022, Benzo (a) pyrene = 0.0012, Fluoranthrene = 0.0030, Fluorene = 0.0013, Phenanthrene = 0.0033, Pyrene = 0.0032, 1-Methylnaphthalene = 0.0026, 2-Methylnaphthalene = 0.0035 "a" note on all of the above	
B-6	5/21/2012	17	<7.4 ^f	<7.4 ^f	2.8 ^f	2.8	<0.0092	<0.046	<0.0092	<0.028	<0.046 (EPA Method 8270C) 0.0040 (EPA Method 8260B)	ND	Anthracene = 0.0017, Phenanthrene = 0.0044, Pyrene = 0.0020, 2-Methylnaphthalene = 0.0024 "a" note on all of the above	

Table 1
Soil Analytical Data

ABF Freight System Facility
4575 Tidewater Avenue
Oakland, California

Sample ID#	Sample Date	Sample Depth (ft)	TPHg (mg/kg)	Diesel Range Organics*			Total TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (Total) (mg/kg)	Naphthalene (mg/kg)	Other VOCs (mg/kg)	PAHs (mg/kg)
				C10-C22 (mg/kg)	C22-C32 (mg/kg)	C32-C40 (mg/kg)								
B-7	5/21/2012	12	<0.66	5.5	<5.2	<5.2	5.5	<0.0066	<0.033	<0.0066	<0.020	<0.033	2-Butanone = 0.025 ^a tert-Butyl alcohol = 0.094	NA
B-7	5/21/2012	15	<0.99	10 ^d	<7.9	<7.9	10	<0.0099	<0.050	<0.0099	<0.030	<0.050		NA
B-8	5/21/2012	10	<0.85	5.3 ^a	<6.8	<6.8	5.3	<0.0085	<0.042	<0.0085	<0.026	<0.042	ND	NA
B-8	5/21/2012	15	<0.96	6.9 ^{a,d}	4.0 ^a	<7.7	10.9	<0.0096	<0.048	<0.0096	<0.029	<0.048	ND	NA
B-9	5/22/2012	7	<0.74	25	6.4	<5.9	31.4	<0.0074	<0.037	<0.0074	<0.022	<0.037	2-Butanone = 0.034 ^a	NA
B-9	5/22/2012	15	<0.98	2.5 ^a	<7.8	<7.8	2.5	<0.0098	0.0041 ^a	<0.0098	0.010 ^a	<0.049	ND	NA
B-10	5/21/2012	4	<0.60	11 ^d	3.3 ^a	<4.8	14.3	<0.0060	<0.030	<0.0060	<0.018	<0.030	ND	NA
B-10	5/21/2012	15	<0.92	4.8 ^a	<7.3	<7.3	4.8	<0.0092	<0.046	<0.0092	<0.027	<0.046	2-Butanone = 0.033 ^a	NA
B-11	5/22/2012	8	<0.68	3.3 ^a	<5.5	<5.5	3.3	<0.0068	<0.034	<0.0068	<0.020	<0.034	ND	NA
B-11	5/22/2012	15	<0.96	5.4 ^a	<7.7	<7.7	5.4	<0.0096	<0.048	<0.0096	<0.29	<0.048	ND	NA

Soil Boring and Monitoring Well Installation - December 2012

B-12	12/17/2012	3	0.28 ^a	<23 ^f	NA	NA	<23 ^f	<0.0058	<0.029	<0.0058	<0.017	<0.029	ND**	NA
B-12	12/17/2012	6	<0.69	<1,100 ^f	NA	NA	<1,100 ^f	<0.0069	<0.034	<0.0069	<0.021	<0.034	ND**	NA
MW-3	12/17/2012	3	<0.59	<24 ^f	NA	NA	<24 ^f	<0.0059	<0.030	<0.0059	<0.018	<0.030	ND**	NA
MW-3	12/17/2012	7	<0.62	8.1	NA	NA	8.1	<0.0062	<0.031	<0.0062	<0.019	<0.031	ND**	NA
MW-4	12/17/2012	3	<0.58	5.4 ^a	NA	NA	5.4 ^a	<0.0058	<0.029	<0.0058	<0.018	<0.029	ND**	NA
MW-4	12/17/2012	10	41	48	NA	NA	48	<0.13	<0.65	<0.13	<0.39	0.50 ^a	ND**	NA

SFRWOCB ESLs (mg/kg) Non Drinking Water Source Commercial Property Use - Shallow Soils	
420	500
1.2	1.2
9.3	9.3
4.7	4.7
4.8	4.8
11	11
11	11
4.7	4.7
9.3	9.3
1.2	1.2
530	530
9.3	9.3
4.7	4.7
4.8	4.8

Table 1
Soil Analytical Data

ABF Freight System Facility
4575 Tidewater Avenue
Oakland, California

Sample ID#	Sample Date	Sample Depth (ft)	TPHg (mg/kg)	Diesel Range Organics* C10-C22 (mg/kg)	C22-C32 (mg/kg)	C32-C40 (mg/kg)	Total TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (Total) (mg/kg)	Naphthalene (mg/kg)	Other VOCs (mg/kg)	PAHs (mg/kg)
<p>Notes:</p> <ul style="list-style-type: none"> * = Silica gel cleanup was completed on diesel-range organics analysis ** = Additional VOCs analyzed included MTBE, di-isopropyl ether, ethanol, ethyl tert-butyl ether, tert-butyl alcohol, tert-amyl methyl ether, 1,2-dibromoethane and 1,2-dichloroethane MTBE = Methyl Tertiary-Butyl Ether TPH = Total Petroleum Hydrocarbons Elev. = elevation ft = feet < = less than indicated detection level mg/kg = milligrams per kilogram ND = Not Detected NA = Not Analyzed TPHg = Total Petroleum Hydrocarbons - Gasoline TPHd = Total Petroleum Hydrocarbons - Diesel VOC = Volatile Organic Compound PAH = Poly-Aromatic Hydrocarbons a = The lab noted, estimated value below the lower calibration point. Confidence correlates with concentration. b = The lab noted, surrogate recovery limits have been exceeded, values are outside lower control limits. c = The lab noted, the sample matrix interfered with the ability to make any accurate determination; spike value is low. d = The lab noted, this sample has responded in the Diesel range, however it does not appear to be hydrocarbon product. e = The lab noted, this sample has responded in the Oil range, however it does not appear to be a hydrocarbon product. f = The lab noted, sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution. ESL = Environmental Screening Level SFBWQCB = San Francisco Bay Regional Water Quality Control Board, California EPA, http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml (February 2013) 														

Table 1
Soil Analytical Data
 ABF Freight System, Inc.
 4575 Tidewater Avenue
 Oakland, California

Sample ID	Sample Date	Sample Depth (Feet)	EPA Analytical Test Method													8015 (mg/kg)		
			TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,1-DCE	cis-1,2-DCE	PCE	TCE	Vinyl Chloride	Carbon Tetrachloride	Other Compounds	TPHd	TPHmo		
SB-1	8/26/2014	3.5	<0.57	0.00061 ^A	<0.0057	<0.0011	<0.0034	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	ND	<4.5	0.66 ^A
SB-2	8/26/2014	3.5	<0.58	<0.0012	<0.0056	<0.0012	<0.0036	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	ND	<46	20 ^A
SB-3	8/26/2014	3.5	<0.60	<0.0012	0.00066 ^A	<0.0012	<0.0036	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	ND	3.2 ^A	5.3
SB-4	8/26/2014	3.5	<0.57	<0.0011	<0.0057	<0.0011	<0.0034	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	ND	<46	5.6 ^A
SB-5	8/26/2014	3.5	<0.56	<0.0011	<0.0056	<0.0011	<0.0034	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	ND	<45	87
SB-6	8/26/2014	3.5	<0.56	0.00042 ^A	<0.0056	<0.0011	<0.0034	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	ND	<4.5	3.6 ^A
SB-7	8/27/2015	3.0	<2.89	<0.00579	<0.0288	<0.00579	<0.0174	<0.00579	<0.00579	<0.00579	<0.00579	<0.00579	<0.00579	<0.00579	<0.00579	C	13.4 ^B	245.1
	5.5	<2.87	<0.00575	<0.0287	<0.00575	<0.0172	<0.00575	<0.00575	<0.00575	<0.00575	<0.00575	<0.00575	<0.00575	<0.00575	<0.00575	ND	1.49 ^B	<4.80
	10.5	<2.98	<0.00596	<0.0286	<0.00596	<0.0179	<0.00596	<0.00596	<0.00596	<0.00596	<0.00596	<0.00596	<0.00596	<0.00596	<0.00596	ND	<4.77	<4.77
SB-8	8/27/2015	3.0	<2.97	<0.00595	<0.0287	<0.00595	<0.0178	<0.00595	<0.00595	<0.00595	<0.00595	<0.00595	<0.00595	<0.00595	<0.00595	ND	7.96 ^B	115.2
	6.0	<2.98	<0.00597	<0.0288	<0.00597	<0.0179	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	ND	0.898 ^B	4.94 ^B
	9.5	<2.93	<0.00597	<0.0283	<0.00597	<0.0176	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	<0.00597	ND	<4.69	<4.69

Commercial SFRWQCB ESLs - Shallow Soil Screening Levels - Not a Current or Potential Drinking Water Resource

500	1.2	9.3	4.7	11	1.9	18	2.6	8.3	0.16	0.58	NLE	110	500
-----	-----	-----	-----	----	-----	----	-----	-----	------	------	-----	-----	-----

Notes:

EPA = Environmental Protection Agency
 SB = Soil Boring
 TPHg = Total Petroleum Hydrocarbons - Gasoline Range
 1,1-DCE = 1,1-dichloroethene
 cis-1,2-DCE = cis-1,2-dichloroethene
 PCE = Tetrachloroethene
 TCE = Trichloroethene
 TPHmo = Total Petroleum Hydrocarbons - Diesel Range (C10-C28 for SB-1 through SB-6, C12-C22 for SB-7 and SB-8)
 TPHmo = Total Petroleum Hydrocarbons - Motor Oil Range (C28-C40 for SB-1 through SB-6, sum of C22-32 and C32-C40 for SB-7 and SB-8)
 mg/kg = Milligrams per kilogram
 < = Not detected at or above detection limit
 Bold = Exceeds ESL concentration
 ND = Not detected at or above laboratory detection limits
 NLE = No limit established
 A = Estimated value below the lowest calibration point. Confidence correlates with concentration.
 B = The identification of the analyte is acceptable; the reported value is an estimate.
 C = 1,2,3-Trichlorobenzene detected at a concentration of 0.00246^B mg/kg. There is no Environmental Screening Level established for 1,2,3-Trichlorobenzene.
 SFRWQCB = San Francisco Bay Regional Water Quality Control Board, California EPA, December 2013, http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/est.shtml.
 ESLs = Environmental Screening Levels (Updated December 2013)



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Est. 1970

REPORT OF ANALYSIS

Cora Olson
 Trinity Source Group - Santa Cruz,
 500 Chestnut Street, Ste. 225
 Santa Cruz, CA 95060

June 14, 2012

Date Received : May 24, 2012
 Description : ABF Freight System Facility - Oakland, CA
 Sample ID : B-6 9FT
 Collected By : Cara Olson
 Collection Date : 05/21/12 10:20

ESC Sample # : L576962-15
 Site ID :
 Project # :

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
4-Bromofluorobenzene	103.			% Rec.		8260B	05/25/12	5
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.00076	0.0087	mg/kg		8270C-SI	05/28/12	1
Acenaphthene	U	0.00071	0.0087	mg/kg		8270C-SI	05/28/12	1
Acenaphthylene	U	0.00057	0.0087	mg/kg		8270C-SI	05/28/12	1
Benzo(a)anthracene	0.0022	0.00092	0.0087	mg/kg	J	8270C-SI	05/28/12	1
Benzo(a)pyrene	0.0012	0.00062	0.0087	mg/kg	J	8270C-SI	05/28/12	1
Benzo(b)fluoranthene	U	0.00082	0.0087	mg/kg		8270C-SI	05/28/12	1
Benzo(g,h,i)perylene	U	0.0012	0.0087	mg/kg		8270C-SI	05/28/12	1
Benzo(k)fluoranthene	U	0.0013	0.0087	mg/kg		8270C-SI	05/28/12	1
Chrysene	U	0.0011	0.0087	mg/kg		8270C-SI	05/28/12	1
Dibenz(a,h)anthracene	U	0.0011	0.0087	mg/kg		8270C-SI	05/28/12	1
Fluoranthene	0.0030	0.0010	0.0087	mg/kg	J	8270C-SI	05/28/12	1
Fluorene	0.0013	0.00055	0.0087	mg/kg	J	8270C-SI	05/28/12	1
Indeno(1,2,3-cd)pyrene	U	0.0012	0.0087	mg/kg		8270C-SI	05/28/12	1
Naphthalene	0.0079	0.00065	0.0087	mg/kg	J	8270C-SI	05/28/12	1
Phenanthrene	0.0033	0.00074	0.0087	mg/kg	J	8270C-SI	05/28/12	1
Pyrene	0.0032	0.00059	0.0087	mg/kg	J	8270C-SI	05/28/12	1
1-Methylnaphthalene	0.0026	0.00079	0.0087	mg/kg	J	8270C-SI	05/28/12	1
2-Methylnaphthalene	0.0035	0.00059	0.0087	mg/kg	J	8270C-SI	05/28/12	1
2-Chloronaphthalene	U	0.00060	0.0087	mg/kg		8270C-SI	05/28/12	1
Surrogate Recovery								
Nitrobenzene-d5	74.8			% Rec.		8270C-SI	05/28/12	1
2-Fluorobiphenyl	78.5			% Rec.		8270C-SI	05/28/12	1
p-Terphenyl-d14	104.			% Rec.		8270C-SI	05/28/12	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

Note:

This report shall not be reproduced, except in full, without the written approval from BSC.

The reported analytical results relate only to the sample submitted

Reported: 06/14/12 17:12 Printed: 06/14/12 17:15

ATTACHMENT 6



COUNTY OF ALAMEDA Assessor's Office Property Value System

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[History](#) | [Value](#) | [Transfer](#) | [Map](#) | [Glossary](#)

Parcel Number: 34-2300-13-5 Inactive: N Lien Date: 01/01/2011 Owner: ARKANSAS BANDAG CORPORATION
Property Address: 4576 TIDEWATER AVE, OAKLAND, CA 94601-3917
[Parcel History](#)

Mailing Name	Historical Mailing Address	Document Date	Document Number	Value From Trans Tax	Parcel Count	Use
ARKANSAS BANDAG CORPORATION	4576 TIDEWATER AVE, OAKLAND, CA 94601-3917	1979-203004	3			

All information on this site is to be assumed accurate for property assessment purposes only, and is based upon the Assessor's knowledge of each property. Caution is advised for use other than its intended purpose.

The Alameda County Intranet site is best viewed in Internet Explorer Version 5.5 or later.
Click [here](#) for more information regarding supported browsers.

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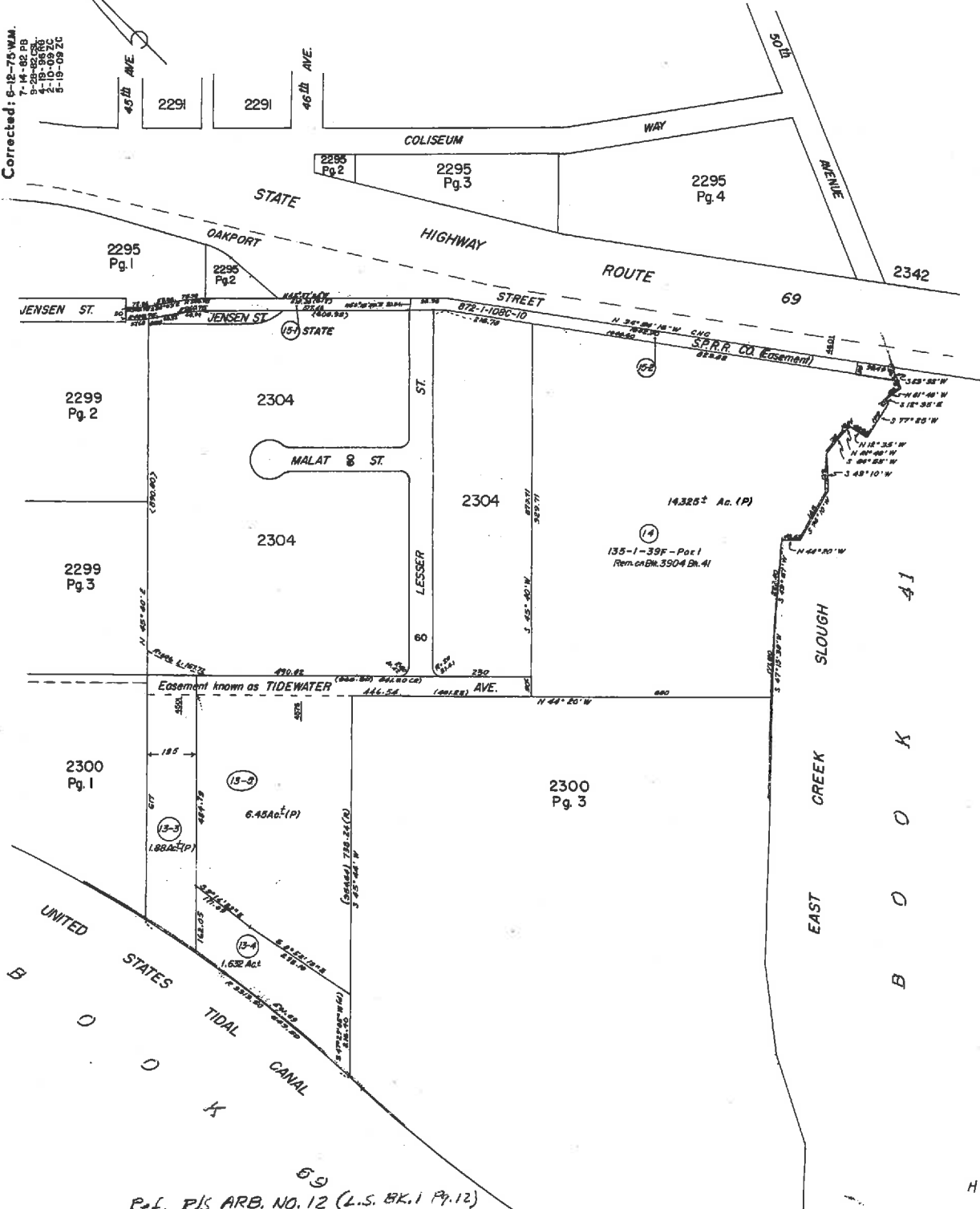
ASSESSOR'S MAP 34

Code Area Nos.
17-032

2300 Scale: 1" = 200'
Pg. 2

RANCHO SAN ANTONIO (A.M. PERALTA et. al.) (Pat. Bk. A Pg. 669)

Drawn: 2-65 S.Y.
Corrected: 6-12-75 W.M.
1-4-82 P.B.
1-2-83 P.B.
1-18-83 P.B.
1-10-89 Z.C.
2-19-89 Z.C.



69 Ref. R/S ARB. NO. 12 (L.S. BK. 1 Pg. 12)

HPN 18



AGENCY

Certified Mail #: 7009 2820 0001 4372 7741

August 15, 2011

NOTICE OF RESPONSIBILITY

Site Name & Address:
ABF FREIGHT SYSTEMS
4575 TIDEWATER AVE
OAKLAND, CA 94601

Local ID: RO0003033
Related ID: NA
RWQCB ID: 01-0022
Global ID: T0600100018

Responsible Party:

ARKANSAS BANDAG CORPORATION
PO BOX 10048
FORT SMITH AR 72917-0048

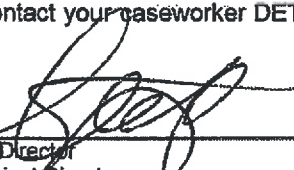
Date First Reported: 7/3/1986
Substance: 12031,12034,12035 Multiple Releases
Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified ARKANSAS BANDAG CORPORATION as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker DETTERMAN, MARK, at this office at (510)567-6876 if you have questions regarding your site.


Date: 8/15/2011
Ariu Levi, Director
Contract Project Director

Action: Add
Reason: New Case

Attachment A: Responsible Parties Data Sheet

cc: Jennifer Jordan, SWRCB, D. Drogos (Sent via electronic mail to donna.drogos@acgov.org), File



AGENCY

Certified Mail #: 7009 2820 0001 4372 7587

August 15, 2011

NOTICE OF RESPONSIBILITY

Site Name & Address:
ABF FREIGHT SYSTEMS
4575 TIDEWATER AVE
OAKLAND, CA 94601

Local ID: RO0003033
Related ID: NA
RWQCB ID: 01-0022
Global ID: T0600100018

Responsible Party:

MIKE ROGERS
ABF FREIGHT SYSTEMS
PO BOX 10048
FORT SMITH AR 72917-0048

Date First Reported: 7/3/1986
Substance: 12031,12034,12035 Multiple Releases
Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified ARKANSAS BANDAG CORPORATION as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

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Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker DETTERMAN, MARK, at this office at (510)567-6876 if you have questions regarding your site.



ARNO LEVI, Director
Contract Project Director

Date 8/16/2011

Action: Add
Reason: New Case

Attachment A: Responsible Parties Data Sheet

cc: Jenniffer Jorden, SWRCB, D. Drogos (Sent via electronic mail to donna.drogos@acgov.org), File

ALAMEDA COUNTY ENVIRONMENTAL HEALTH
LUFT LOCAL OVERSIGHT PROGRAM

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET

August 15, 2011

Site Name & Address:

**ABF FREIGHT SYSTEMS
4575 TIDEWATER AVE
OAKLAND, CA 94601**

**Local ID: RO0003033
Related ID: NA
RWQCB ID: 01-0022
Global ID: T0600100018**

All Responsible Parties

**RP has been named a Primary RP -
ARKANSAS BANDAG CORPORATION
PO BOX 10048 | FORT SMITH, AR 72917-0048 | Phone No Phone Number Listed**

**RP has been named a Primary RP - MIKE ROGERS
ABF FREIGHT SYSTEMS
PO BOX 10048 | FORT SMITH, AR 72917-0048 | Phone (501) 785-6000**

Responsible Party Identification Background

Alameda County Environmental Health (ACEH) names a "Responsible Party," as defined under 23 C.C.R Sec. 2720. Section 2720 defines a responsible party 4 ways. An RP can be:

1. "Any person who owns or operates an underground storage tank used for the storage of any hazardous substance."
2. "In the case of any underground storage tank no longer in use, any person who owned or operated the underground storage tank immediately before the discontinuation of its use."
3. "Any owner of property where an unauthorized release of a hazardous substance from an underground storage tank has occurred."
4. "Any person who had or has control over an underground storage tank at the time of or following an unauthorized release of a hazardous substance."

ACEH has named the responsible parties for this site as detailed below.

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET (Continued)

August 15, 2011

Responsible Party Identification

Responsible Party Identification

Existence of Unauthorized Release

In June 1986 a site investigation was conducted to investigate the condition of existing tanks at the subject site. Two 10,000-gallon diesel, one 800-gallon motor oil, and one 800-gallon waste oil USTs were present; one of the 10,000-gallon USTs is reported to have previously held gasoline until approximately 1983. A leak in the gas product lines had been discovered and previously repaired. Part of the work included removal of the two 800-gallon USTs, removal of sludge beneath the leaking UST (undefined), installation of bores A1 to A4 and the collection of soil and groundwater samples; contamination was documented in soil and groundwater. In September, 1986 wells MW-1 and MW-2 and bores S-1 to S-3 were installed. Concentrations up to 34 mg/kg "Motor Fuel" in soil; and 452,000 µg/l "Motor Fuel" and 1,590 µg/l benzene were documented in groundwater collected from well MW-1. On January 8, 1987 one 10,000-gallon UST was removed. The status of the second 10,000-gallon UST is not known. Concentrations of up to 681 TPH in soil and up to 721,000 µg/l TPH in tank pit water were documented at the time of the tank removal.

Responsible Party Identification

ABF Freight System, Inc. is a property tenant associated with the UST. ABF Freight System, Inc. is a responsible party for site because it owned an UST used for the storage of a hazardous substance (Definition 1), owned the UST immediately before the discontinuation of its use (Definition 2), and had control over the UST at a time following an unauthorized release of a hazardous substance (Definition 4).

The Arkansas Bandag Corporation is the current owner associated with the underground storage tank (UST). The Arkansas Bandag Corporation is a responsible party for the site because it owned the property where an unauthorized release has occurred (Definition 3).

ATTACHMENT 7



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

INVITATION TO COMMENT – POTENTIAL CASE CLOSURE

ABF Freight Systems
4575 Tidewater Avenue, Oakland, 94601
FUEL LEAK CASE RO0003033
GEOTRACKER GLOBAL ID T0600100018

April 27, 2016

The above referenced site is a fuel leak case that is under the regulatory oversight of the Alameda County Department of Environmental Health (ACDEH) Local Oversight Program for the investigation and cleanup of a release of petroleum hydrocarbons from an underground storage tank system. Site investigation and cleanup activities have been completed and the site has been evaluated in accordance with the State Water Resources Control Board Low-Threat Closure Policy. The site appears to meet all of the criteria in the Low-threat Closure Policy. Therefore, ACDEH is considering closure of the fuel leak case.

Due to an inadvertent error, this is the second notification of potential closure of the site. As indicated below, this notification extends the public comment period until June 8, 2016. As before, this notice is being sent to the current landowner in compliance with Health and Safety Code Section 25295.40. It is also being sent to the current occupants and landowners of adjacent properties and known interested parties for this site.

The public is invited to review and comment on the potential closure of the fuel leak case. The entire case file can be viewed over the Internet on the ACDEH website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.swrcb.ca.gov>). Please send written comments to Mark Detterman at the address below; all comments will be forwarded to the responsible parties. **Comments received by June 8, 2016 will be considered and responded to prior to a final determination on the proposed case closure.**

If you have comments or questions regarding this site, please contact the ACDEH caseworker, Mark Detterman at 510-567-6876 or by email at mark.detterman@acgov.org. Please refer to ACDEH case RO0003033 in any correspondence.

430 LESSER STREET LLC
PARCEL #: 34-2304-14-2
430 LESSOR ST
OAKLAND CA 94601-4902

ARKANSAS BANDAG CORPORATION
PARCEL #: 34-2300-13-5
PO BOX 10048
FORT SMITH AR 72917-0048

EAST BAY REGIONAL PARK DISTRICT
PARCEL #: 34-2300-13-4
PO BOX 5381
OAKLAND CA 94605-0381

EGGEN NORMAN J & MARGARET M TRS
PARCEL #: 34-2300-20
PO BOX 1883
ORINDA CA 94563-6883

FIGUEROA JUAN D & MARIA D
PARCEL #: 34-2304-10-1
1224 LOZANO CT
PLEASANTON CA 94566-2237

HOME DOCK PROPERTIES
PARCEL #: 34-2300-13-3
PO BOX 52427
ATLANTA GA 30355-0427

HOME DOCK PROPERTIES
PARCEL #: 34-2300-5
PO BOX 52427
ATLANTA GA 30355-0427

HOME DOCK PROPERTIES
PARCEL #: 34-2300-4
PO BOX 52427
ATLANTA GA 30355-0427

JMDH REAL ESTATE OAKLAND LLC
PARCEL #: 34-2299-10-3
15-24 132ND ST
COLLEGE POINT NY 11356-2440

KRIEGER HARRY & ANNA
PARCEL #: 34-2300-1
535 EDDY ST
SAN FRANCISCO CA 94109-8017

OCCUPANT
PARCEL #: 34-2300-13-5
4575 TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2300-13-3
TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2300-5
4501 TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2300-4
4501 TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2300-2-1
344 HIGH ST
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2300-13-4
TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2300-24
4703 TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2300-23
TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2300-22
TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2300-20
TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2300-21
TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2304-14-2
430 LESSER ST
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2304-10-1
417 LESSER ST
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2304-9
4500 TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2304-16-1
TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2299-10-3
400 HIGH ST
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2300-1
4501 TIDEWATER AVE
OAKLAND CA 94601

OCCUPANT
PARCEL #: 34-2304-9
4500 TIDEWATER AV
OAKLAND 94601

OCCUPANT
PARCEL #: 34-2299-10-3
4440 TIDEWATER AV
OAKLAND 94601

OCCUPANT
PARCEL #: 34-2299-10-3
440 HIGH ST
OAKLAND 94601

OCCUPANT
PARCEL #: 34-2300-24
4703 TIDEWATER AV
OAKLAND 94601

OCCUPANT
PARCEL #: 34-2300-13-5
4575 TIDEWATER AV
OAKLAND 94601

OCCUPANT
PARCEL #: 34-2300-1
4501 TIDEWATER AV
OAKLAND 94601

OCCUPANT
PARCEL #: 34-2299-10-3
4440 TIDEWATER AV
OAKLAND 94601

OCCUPANT
PARCEL #: 34-2300-19
4723 TIDEWATER AV
OAKLAND 94601

OCCUPANT
PARCEL #: 34-2300-5
4501 TIDEWATER AV
OAKLAND 94601

OCCUPANT
PARCEL #: 34-2300-4
4501 TIDEWATER AV
OAKLAND 94601

OLIVER DE SILVA INC
PARCEL #: 34-2300-2-1
11555 DUBLIN BLVD
DUBLIN CA 94568-2854

OLIVER DE SILVA INC
PARCEL #: 34-2304-9
11555 DUBLIN BLVD
DUBLIN CA 94568-2854

SCHMITT WILLIAM W & JACQUILINE M TRS & I
PARCEL #: 34-2300-24
1569 PEBBLEBROOK CT
WALNUT CREEK CA 94596-6457

TIDEWATER GROUP LLC
PARCEL #: 34-2300-23
1840 EMBARCADERO
OAKLAND CA 94606-5220

TIDEWATER GROUP LLC
PARCEL #: 34-2300-22
1840 EMBARCADERO
OAKLAND CA 94606-5220

TIDEWATER GROUP LLC
PARCEL #: 34-2300-21
1840 EMBARCADERO
OAKLAND CA 94606-5220

TRIN 2015 REAL ESTATE INC
PARCEL #: 34-2300-19
4723 TIDEWATER AVE
OAKLAND CA 94601

WESTERN DOOR & SASH CO
PARCEL #: 34-2304-16-1
PO BOX 20287
OAKLAND CA 94620-0287

Z SQUARE PROPERTIES CO LLC
PARCEL #: 34-2304-15
414 LESSER ST
OAKLAND CA 94601

East Bay Municipal Utility District
Chandra Johannesson
P.O. Box 24055,
Oakland, CA 94623

cjohanne@ebmud.com

City Of Oakland Public Works Environmental Services
Mark Johannes Arniola and Gopal Nair
150 Frank H. Ogawa Plaza, Suite 5301
Oakland CA 94612

marniola@oaklandnet.com
gnair@oakland.net.com

City Of Oakland Planning & Building
Dave Harlan
150 Frank H. Ogawa Plaza, Suite 2114
Oakland CA 94612

dharlan@oaklandnet.com

Laurent Meillier
Engineering Geologist
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay St, Ste 1400
Oakland, CA 94612

laurent.meillier@waterboards.co.gov



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Assessor's Office

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Parcel Number: **34-2300-13-5** Inactive: **N** Lien Date: **01/01/2016** Owner: **ARKANSAS BANDAG CORPORATION**

Property Address: **4575 TIDEWATER AVE, OAKLAND, CA 94601-3917**

[Parcel History](#)

Mailing Name	Historical Mailing Address	Document Date	Document Number	Value From Trans Tax	Parcel Count	Use
ARKANSAS BANDAG CORPORATION	List Owners PO BOX 10048 , FORT SMITH, AR 72917-0048	10/10/1979	1979-203004		3	4800

All information on this site is to be assumed accurate for property assessment purposes only, and is based upon the Assessor's knowledge of each property. Caution is advised for use other than its intended purpose.

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