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By Alameda County Environmental Health at 4:46 pm, Jun 10, 2014



ABF FREIGHT SYSTEM, INC.
P.O. Box 10048
Fort Smith, AR 72917-0048
479-785-8700

abf.com

June 9, 2014

Mr. Mark Detterman, RG, CEG
Senior Hazardous Materials Specialist
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: **Perjury Statement-
HVOC Delineation Work Plan**

ABF Freight System Facility (SLIC Case No. RO#0003033) 
4575 Tidewater Avenue RO3134
Oakland, California

Dear Mr. Detterman:

I declare under penalty of perjury, that the information and/or recommendations contained in the attached document or report are true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael K. Rogers", is written over a white background.

Michael K. Rogers
Director, Real Estate
ArcBest Corporation



June 10, 2014
Project 154.008.001

Mr. Mark Detterman, RG, CEG
Senior Hazardous Materials Specialist
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: *Soil HVOC Delineation Work Plan*
ABF Freight System Facility
4575 Tidewater Avenue
Oakland, California
RO#0003033

Dear Mr. Detterman:

This letter, prepared by Trinity Source Group, Inc. (Trinity) on behalf of ABF Freight System, Inc. (ABF), presents a *Soil HVOC Delineation Work Plan (Work Plan)* for the referenced site (Figures 1 and 2). This *Work Plan* was requested by Alameda County Environmental Health Department (ACEH) in a letter dated April 9, 2014. This *Work Plan* focuses on delineating the presence of halogenated volatile organic compounds (HVOCs) in soil, particularly tetrachloroethene (PCE) and trichloroethene (TCE), as requested by ACEH. The ACEH letter is included in Attachment A of this *Work Plan*.

BACKGROUND

The site encompasses approximately 6.7 acres situated between Tidewater Avenue and the water channel extending north from San Leandro Bay, separating the cities of Alameda and Oakland (Figures 1 and 2). Land-use in the area is industrial.

Currently the site is in use as a trucking terminal, with a maintenance building located near the western property boundary. One aboveground storage tank currently exists adjacent to the maintenance building, and is labeled with "Diesel Fuel", "Not in Use", and "Permanently Closed Jan. 1995". An underground clarifier is in use near the maintenance building. The underground storage tanks (USTs) at the site were also located near the maintenance building.

Previous environmental activities have evaluated soil and groundwater conditions, and are described in the *Soil Vapor Work Plan*. The most recent groundwater monitoring was the first semi-annual 2014 event, reported on March 12, 2014.

Trinity installed two sub-slab vapor probes (SVP-1 and SVP-2) inside the maintenance building (Figure 2), and sampled these probes on two occasions. Tetrachloroethene (PCE) was detected at concentrations exceeding the Environmental Screening Level (ESL)¹ for commercial land use indoor air, with a maximum of 901 to 971 micrograms per meter cubed ($\mu\text{g}/\text{m}^3$) in Probe SVP-2. The applicable ESL for PCE is $42 \mu\text{g}/\text{m}^3$. Probe SVP-2 also had very low but detectable concentrations of several other halogenated volatile organic compounds (HVOCs). Table 1 summarizes the sub-slab vapor data. Because the source and extent of PCE is unknown, ACEH requested additional delineation of the PCE.

Trinity conducted a passive soil gas survey inside and around the maintenance building from January 22, 2014 to February 5, 2014. The results of the survey are detailed in the *Passive Soil Gas Survey Report (Report)*, dated March 19, 2014. PCE and TCE and were the only HVOCs detected in multiple probes. The passive soil gas survey indicated non-detectable to relatively low concentrations across the area surveyed, with the maximum detections being PCE in two samples located near a sewer trench beneath the maintenance building. Passive soil gas analytical data is presented in Table 2 and Figure 3.

In the March 19, 2014 *Report*, Trinity recommended drilling two soil borings to provide source evaluation and delineation of PCE beneath the maintenance building. In its April 9, 2014 letter, ACEH requested that additional soil borings be drilled.

Trinity proposes to evaluate potential soil contamination and delineate HVOC contamination beneath the maintenance building by drilling six soil borings. The proposed boring locations were selected to delineate HVOC contamination and to evaluate the floor drains as potential contamination sources. Proposed boring locations are shown on Figure 3.

SCOPE OF WORK

Trinity presents the following scope of work to achieve the objectives stated above. The following tasks will be completed:

Prefield

Prefield tasks will include obtaining any necessary permits, preparing a site-specific health and safety plan, and notifying inspectors as needed. In addition, Trinity staff will mark the proposed module locations and notify Underground Service Alert for utility clearance.

Soil Borings

Borings will be advanced using a direct-push rig to two feet below first encountered water. Soils will be logged by Trinity staff and screened for volatile organic compounds (VOCs) at two-foot intervals using a photoionization detector (PID). At least one soil sample will be collected per borehole; additional soil

¹ *Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater* (November 2007), San Francisco Bay Regional Water Quality Control Board, California EPA, <http://www.waterboards.ca.gov/sanfranciscobay/esl.htm>, updated December, 2013. ESLs are conservative risk-based numbers used to evaluate detections of chemicals in soil, groundwater and soil gas. Detections less than ESLs generally do not warrant further evaluation. Detections greater than ESLs may warrant further evaluation based on site-specific conditions.

samples will be collected based on PID readings. Grab-groundwater samples will be collected from each boring at the first observed water-bearing zone. Complete soil and groundwater assessment field procedures are presented in Attachment B.

Laboratory Analysis

Trinity will ship the soil and grab-groundwater samples to ESC Lab Sciences (ESC), a California-certified analytical laboratory (ELAP# 1157) for analysis. Samples will be analyzed for PCE and five breakdown compounds by EPA Method 8260B.

Reporting

Following receipt of initial sampling analytical results, Trinity will prepare a summary report of the procedures and findings of this soil vapor assessment. The report will include a map showing sample collection locations, field sampling data, and analytical data, along with certified analytical data and chain of custody documentation.

Should you have any questions regarding this letter, please call Trinity at (831) 426-5600.

Sincerely,

TRINITY SOURCE GROUP, INC.

Information, conclusions, and recommendations made by Trinity in this document regarding this site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.



Debra J. Moser, PG, CEG, CHG
Senior Geologist

Attachments:

- | | |
|-----------|--|
| Table 1: | Sub-Slab Vapor Analytical Data |
| Table 2: | Passive Soil Gas Analytical Data |
| Figure 1: | Site Location Map |
| Figure 2: | Soil Boring, Sub-Slab Vapor Probe and Monitoring Well Location Map |
| Figure 3: | Passive Soil Gas Survey and Proposed Boring Locations |

*Mr. Mark Detterman, RG, CEG
Soil HVOC Delineation Work Plan
ABF Freight System Facility
June 10, 2014*

Attachment A: ACEH Letter Dated April 9, 2014
Attachment B: Soil and Grab-Groundwater Sampling Field Procedures

DISTRIBUTION

A copy of this report has been forwarded to:

Mr. Mike Rogers (via email to mkrogers@arcb.com)

Leroy Griffin (via email to lgriffin@oaklandnet.com)

TABLES

**Table 1
Sub-Slab Vapor Analytical Data**

ABF Freight System Facility
4575 Tidewater Avenue
Oakland, California

Sample ID	Sample Date	Analytical Test Methods																	
		ASTM D-1946				EPA TO-15												EPA TO-17	
		Carbon Dioxide (%)	Methane (%)	Oxygen (%)	Helium (%)	PCE (µg/m³)	1,1,2-TCA (µg/m³)	1,2,4-TMB (µg/m³)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl Benzene (µg/m³)	Ethyl Acetate (µg/m³)	Total Xylenes (µg/m³)	Ethanol (µg/m³)	Other VOCs (µg/m³)	Naphthalene (µg/m³)	TPHd (µg/m³)	
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				8.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		<0.6	<125	
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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		<0.6	<125	
SVP-2	1/17/2013				40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
SVP-2	2/5/2013	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 1,1-DFE, 12.5 (leak check) Others as listed on Certified Analytical Report			
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 1,1-DFE, 426 (leak check) Others as listed on Certified Analytical Report			

ESLs for Commercial Indoor Air	2.1	0.77	NA	100	0.42	1,300	4.9	NA	440	NA	NA	0.36	570
Attenuated Commercial Indoor Air ^a	42	15.4	NA	2,000	8.4	26,000	98	NA	8,800	NA	NA	7.2	11,400

Notes:

<p>ID = Identification % = Percentage µg/m³ = micrograms per meter cubed PCE = Tetrachloroethene 1,1,2-TCA = 1,1,2 - Trichloroethane 1,2,4-TMB = 1,2,4 - Trimethylbenzene TPHg = Total Petroleum Hydrocarbons as Gasoline 1,1-DFE = 1,1-Difluoroethane ASTM = American Society for Testing Materials</p>
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Table 1
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 (December 2013)
SFRWQCB = San Francisco Bay Regional Water Quality Control Board, California EPA
http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml (December 2013)
a= Attenuation factor for existing commercial building sub-slab from the DTSC-CEPA Vapor Intrusion Guidance (2011) is 0.05

Table 2
Passive Soil Gas Analytical Data

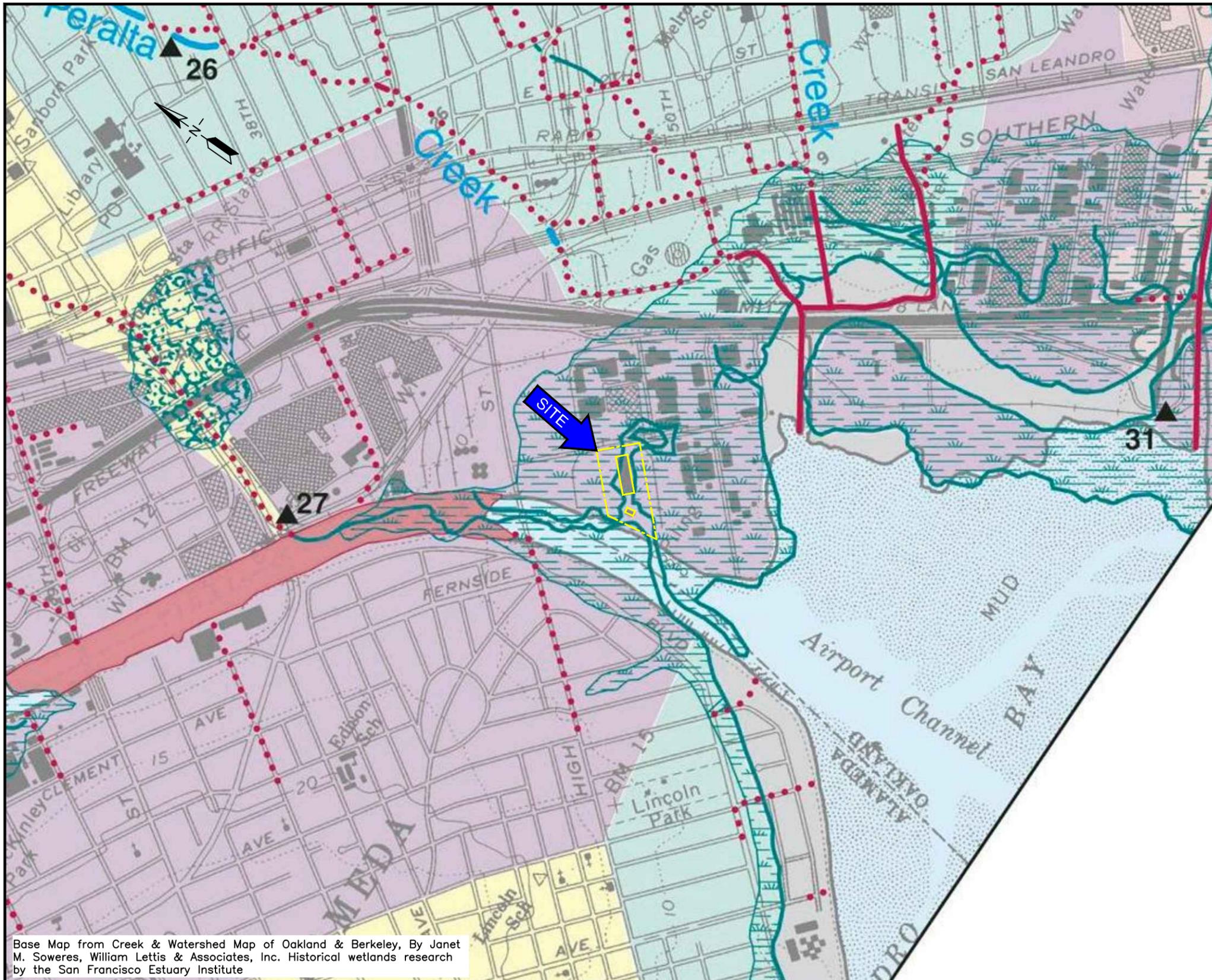
ABF Freight System Facility
4575 Tidewater Avenue
Oakland, California

Sample ID	Sample Deployment Date	Sample Retrieval Date	EPA Method 8260C							
			Vinyl Chloride (ng)	Trichloro-fluoro-ethane (ng)	1,1-Dichloro-ethene (ng)	1,1-Dichloro-ethane (ng)	1,2-Dibromo-ethane (ng)	PCE (ng)	TCE (ng)	Other VOCs (ng)
SG-1	1/22/2014	2/5/2014	<10	<25	<10	<25	<25	<10	<10	A
SG-2	1/22/2014	2/5/2014	<10	<25	<10	<25	<25	8 J	<10	ND
SG-3	1/22/2014	2/5/2014	<10	<25	<10	<25	<25	<10	<10	ND
SG-4	1/22/2014	2/5/2014	<10	<25	<10	<25	<25	<10	<10	ND
SG-5	1/22/2014	2/5/2014	<10	<25	<10	<25	<25	545	55	ND
SG-6	1/22/2014	2/5/2014	<10	<25	<10	<25	<25	540	<10	ND
SG-6 DUP	1/22/2014	2/5/2014	<10	<25	<10	<25	<25	834	7 J	ND
SG-7	1/22/2014	2/5/2014	<10	<25	<10	<25	<25	150	<10	ND
SG-8	1/22/2014	2/5/2014	<10	<25	<10	<25	<25	51	<10	ND
SG-9	1/22/2014	2/5/2014	<10	<25	<10	<25	<25	7 J	<10	ND
SG-10	1/22/2014	2/5/2014	<10	<25	<10	<25	<25	118	8 J	ND

Notes:

ID = Identification
PCE = Tetrachloroethene
TCE = Trichloroethene
ND = Not detected
< = Not detected at or above detection limit
ng = Nanograms
Bold = data detected above laboratory detection limits
A = Chloroform was detected at a concentration of 54 ng
J = Values below limit of quantitation (LOQ) but above the limit of detection (LOD)

FIGURES



- 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



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

PREPARED BY

TRINITY
source group, inc.
Environmental Consultants

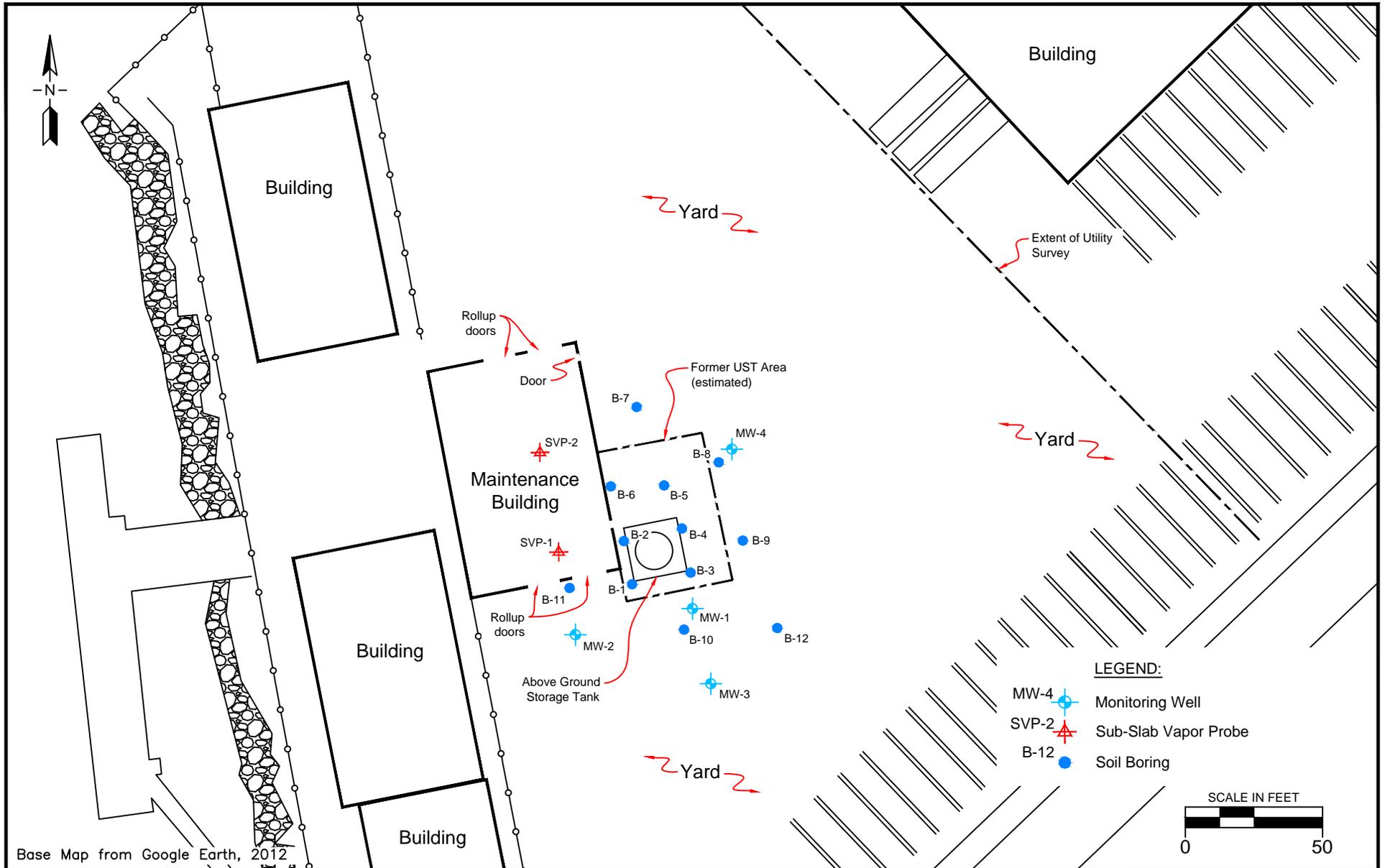
119 Encinal Street
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

SITE LOCATION MAP

ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

PROJECT:
154.008.001

FIGURE:
1



PREPARED BY

TRINITY
source group, inc.
Environmental Consultants

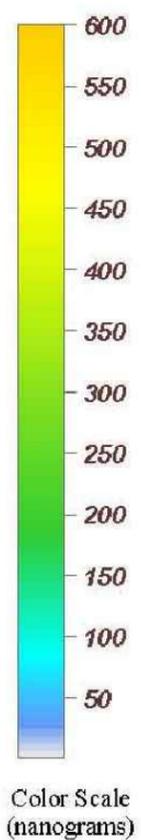
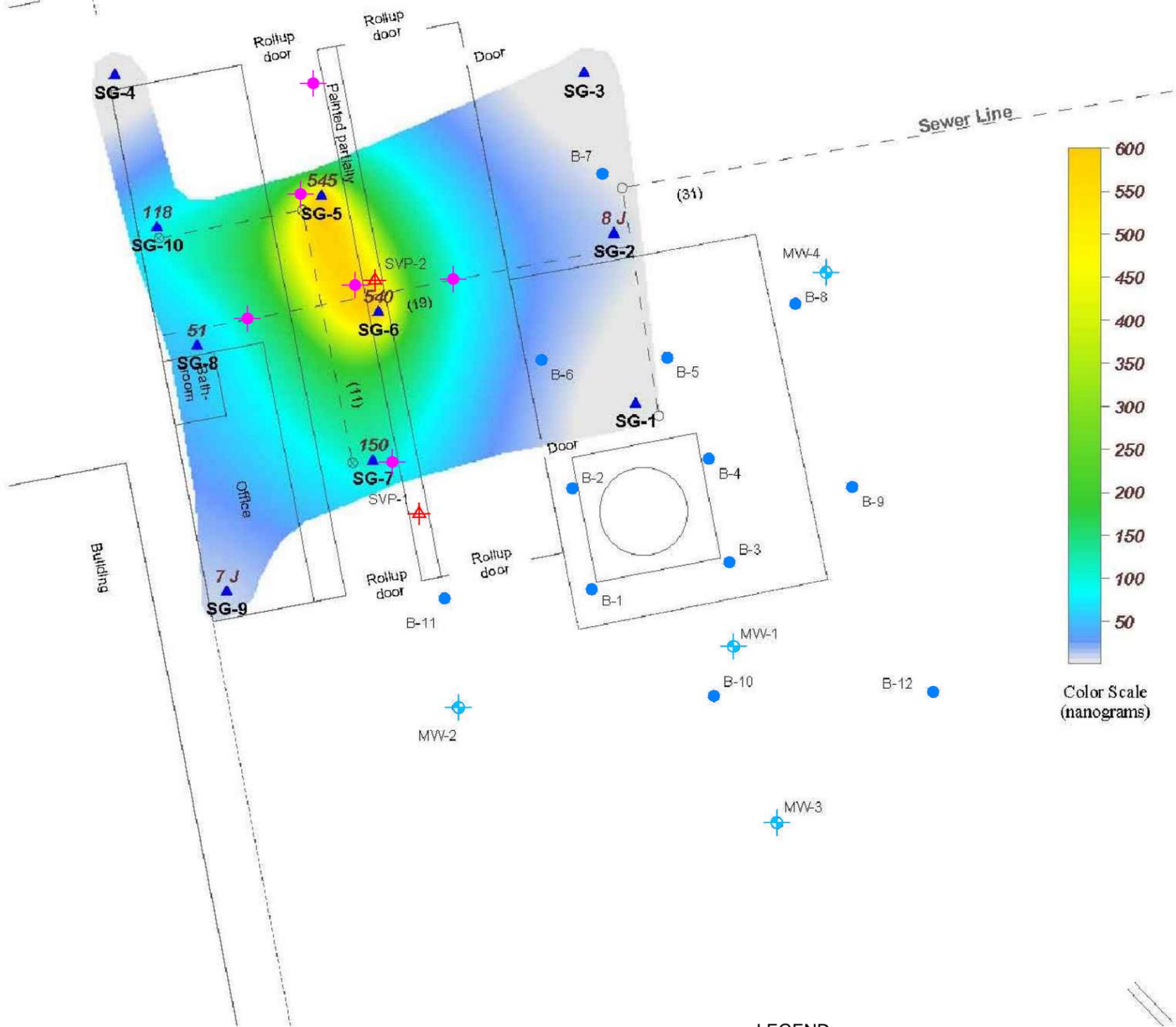
119 Encinal Street
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

**SOIL BORING, SUB-SLAB VAPOR PROBE AND MONITORING WELL
LOCATION MAP**

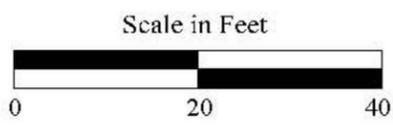
ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

PROJECT:
154.008.001

FIGURE:
2



- LEGEND:**
- SVP-2 Sub-Slab Vapor Probe
 - B-12 Soil Boring
 - MW-2 Monitoring Well
 - SG-10 Passive Soil Gas Sample
 - Proposed Soil Boring Location
 - PCE Tetrachloroethene
 - 8 J Nanograms/Sampler (J = Estimated value)



REF. 154_001\154.008.001 fig3.dwg

Base Map from Google Earth, Inc. and Beacon Environmental Services, Inc.

PREPARED BY

TRINITY
source group, inc.
Environmental Consultants

119 Encinal Street
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

PCE PASSIVE SOIL GAS SURVEY AND PROPOSED BORING LOCATIONS

ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

PROJECT:
154.008.001

FIGURE:
3

ATTACHMENT A

ACEH Letter Dated April 9, 2014

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

ALEX BRISCOE, Agency Director



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

April 9, 2014

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: Work Plan Request; Fuel Leak Case No. RO0003033 and GeoTracker Global ID T0600100018, ABF Freight Systems, 4575 Tidewater Avenue, Oakland, CA 94601

Dear Mr. Rogers:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site, including the *First Semi-Annual 2014 Groundwater Monitoring Report*, dated March 10, 2014, and the *Passive Soil Gas Survey Report*, dated March 20, 2014. The reports were prepared by the Trinity Source Group, Inc (Trinity). Thank you for the reports. The passive soil gas report was submitted to initiate investigations that address the last remaining data gap at the site, principally vapor intrusion from potential waste oil contaminants. As noted in the previous letter, the scope of work was approved as an exploratory survey only as the results are only relative and are not directly comparable to remedial goals; followup confirmation sampling, in accordance with Department of Toxic Substances Control (DTSC), with reproducible results was stated to be required.

ACEH has evaluated site data and recommendations presented in the above-mentioned reports, in conjunction with the case files, and the State Water Resources Control Board's (SWRCBs) Low Threat Underground Storage Tank Case Closure Policy (LTCP). Based on ACEH staff review, we have determined that the site fails to meet the LTCP due to the detection of tetrachloroethene (PCE) in subslab vapor (LTCP General Criteria b [Release Only Consists of Petroleum]). However, the additional data indicates that the release of PCE does not appear to be associated with the former waste oil UST, but is in the vicinity of the drains on the maintenance shop floor. Therefore ACEH is recommending the closure of the fuel leak case and the opening of a Site Cleanup Program (SCP) case (RO0003134) to provide regulatory oversight of the PCE contamination.

At this juncture, ACEH will initiate closure activities for the fuel leak case. Concurrently ACEH requests that you address the following technical comments to address the PCE contamination and send us the documents requested below. Concurrent with this directive letter, ACEH will issue a request for funds for the SCP case.

TECHNICAL COMMENTS

- 1. Work Plan for Delineation of PCE / TCE Contamination** – The referenced passive vapor survey indicated several areas of tetrachloroethene (PCE) and trichloroethene (TCE) contamination beneath the Maintenance Building. One passive location (SG-6) corresponds to a previous subslab vapor point (SVP-2) that detected PCE vapor concentrations substantially above the indoor air Environmental Screening Levels (ESLs) promulgated by the San Francisco Regional Water Quality Control Board (RWQCB) and the Department of Toxic Substance Control (DTSC) modified indoor air screening levels of 2.1 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). A concentration up to 901 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) PCE was detected at SVP-2. Because two passive soil vapor samples (SG-5 and SG-6) detected similar results, ACEH assumes that the second location (SG-5) may contain similar PCE concentrations to SVP-2 if a subslab vapor point were to be installed in proximity to SG-

5. ACEH notes that passive sample location SG-5 is in the vicinity of a floor drain that could be one potential source of subsurface PCE contamination at the site.

Two soil bores were proposed in the passive soil vapor report in order to determine if residual PCE soil contamination is present in the vicinity of the SVP-2 / SG-6 sample location, and further north (north of SG-5) in an effort to define the northern limits of the PCE and TCE contamination. ACEH is in general agreement that additional bore locations are appropriate; however, due to the lack of known source or use areas (except potentially one), it appears prudent to install additional soil bores or vapor points on an approximately 5 foot center grid pattern to help determine the extent of any associated contamination. This is generally recommended in the April 2012 DTSC *Soil Gas Investigations Advisory*, and the strategy is consistent with recommendations contained in the October 2010 *Conducting Contamination Assessment Work at Drycleaning Sites* report issued by the State Coalition for Remediation of Dry Cleaners. This is expected to quickly identify areas of potential concern and to eliminate areas of limited or no concern in order to focus any necessary remedial efforts.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Mark Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the specified file naming convention below, according to the following schedule:

- **June 13, 2014 – Work Plan**
File to be named: RO3033_WP_R_yyyy-mm-dd

Online case files are available for review at the following website: <http://www.acgov.org/aceh/index.htm>. If your email address does not appear on the cover page of this notification, ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,



Digitally signed by Mark E. Detterman
DN: cn=Mark E. Detterman, o, ou,
email, c=US
Date: 2014.04.09 11:00:06 -07'00'

Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations
Electronic Report Upload (ftp) Instructions

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

Leroy Griffin, Oakland Fire Department 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (sent via electronic mail to lgriffin@oaklandnet.com)

Dilan Roe (sent via electronic mail to dilan.roe@acgov.org)
Mark Detterman (sent via electronic mail to mark.detterman@acgov.org)
Electronic File, GeoTracker

Attachment 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT/DATA REQUESTS

These reports/data are being requested pursuant to Division 7 of the California Water Code (Water Quality), Chapter 6.7 of Division 20 of the California Health and Safety Code (Underground Storage of Hazardous Substances), and Chapter 16 of Division 3 of Title 23 of the California Code of Regulations (Underground Storage Tank Regulations).

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (Local Oversight Program [LOP] for unauthorized releases from petroleum Underground Storage Tanks [USTs], and Site Cleanup Program [SCP] for unauthorized releases of non-petroleum hazardous substances) require submission of reports in electronic format pursuant to Chapter 3 of Division 7, Sections 13195 and 13197.5 of the California Water Code, and Chapter 30, Articles 1 and 2, Sections 3890 to 3895 of Division 3 of Title 23 of the California Code of Regulations (23 CCR). Instructions for submission of electronic documents to the ACEH FTP site are provided on the attached "Electronic Report Upload Instructions."

Submission of reports to the ACEH FTP site is in addition to requirements for electronic submittal of information (ESI) to the State Water Resources Control Board's (SWRCB) Geotracker website. In April 2001, the SWRCB adopted 23 CCR, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1 (Electronic Submission of Laboratory Data for UST Reports). Article 12 required electronic submittal of analytical laboratory data submitted in a report to a regulatory agency (effective September 1, 2001), and surveyed locations (latitude, longitude and elevation) of groundwater monitoring wells (effective January 1, 2002) in Electronic Deliverable Format (EDF) to Geotracker. Article 12 was subsequently repealed in 2004 and replaced with Article 30 (Electronic Submittal of Information) which expanded the ESI requirements to include electronic submittal of any report or data required by a regulatory agency from a cleanup site. The expanded ESI submittal requirements for petroleum UST sites subject to the requirements of 23 CCR, Division, 3, Chapter 16, Article 11, became effective December 16, 2004. All other electronic submittals required pursuant to Chapter 30 became effective January 1, 2005. Please visit the SWRCB website for more information on these requirements: (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 7835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, late reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SCP)	REVISION DATE: July 25, 2012
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (petroleum UST and SCP) require submission of all reports in electronic form to the county's FTP site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Please **do not** submit reports as attachments to electronic mail.
- Entire report including cover letter must be submitted to the ftp site as a **single Portable Document Format (PDF) with no password protection**.
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to deh.loptoxic@acgov.org
 - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
 - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

ATTACHMENT B

Soil and Grab-Groundwater Sampling Field Procedures

ATTACHMENT B

SOIL AND GRAB-GROUNDWATER SAMPLING

FIELD PROCEDURES

Prefield Tasks

Exploratory boreholes are permitted and installed in accordance with state and local guidelines using a subcontracted state licensed driller. Prior to drilling, standard boring clearance procedures are followed to minimize the potential for encountering structures in the subsurface. Standard borehole clearance procedures include: (1) marking boring locations at the site and visually identifying, where possible, existing utilities; (2) notifying Underground Service Alert (USA); (3) obtaining available facility blueprints; (4) reviewing boring locations with former site operators; and (5) performing field review of USA markings. Additional tasks include completing a site-specific health and safety plan and scheduling inspectors.

Exploratory Soil Borings

The boring is hand cleared to a depth of 5 feet below ground surface (bgs). The boring is drilled using Geoprobe® or similar direct-push drilling equipment. A precleaned sampler with a clear acetate liner and drive rods (typically two inches in diameter) is advanced for the purpose of collecting samples and evaluating subsurface conditions. The sampler is advanced in intervals of 3 to 4 feet, then the rods and sampler are retracted and the acetate liner removed from the sampler head for evaluation and sample collection by the onsite Trinity geologist. The sampler head is then cleaned, filled with a new acetate liner, inserted into the borehole, and advanced over the next sampling interval where the sample retrieval process is repeated.

After retrieval, each filled acetate liner is split open for examination of soils. The onsite Trinity geologist logs the soils including a physical description of observed soil characteristics (i.e. moisture content, consistency, obvious odor, color, photoionization detector [PID] readings, etc.), drilling difficulty, and soil type as a function of depth, in accordance with the Unified Soil Classification System (USCS).

Soils collected at two-foot intervals are screened in the field for volatile organic compounds (VOCs) using a photoionization detector (PID). The PID screening is conducted by placing approximately 30 grams from an undisturbed soil sample into a clean plastic zip-lock bag. The bag is then placed in the ambient air for approximately 20 minutes, pierced, and the head space within the bag tested for total organic vapor measured in parts per million as benzene (ppm; volume/volume). The PID readings represent relative levels of organic vapors for the site conditions at the time of drilling. The PID readings are noted on the field logs.

In general, soil samples are preserved at changes in soil type, elevated PID readings or at a minimum of every 4 feet. Selected soil samples are collected using TerraCore sampling kits, properly labeled and then placed in an ice-filled cooler for transport to the laboratory under chain of custody documentation.

When static groundwater is reached, a grab-groundwater sample will be collected by use of temporary wells that consist of clean slotted PVC casing placed into the borehole. The temporary wells will be left undisturbed until sufficient water has recharged. The wells will then be purged and sampled using a peristaltic pump or clean, disposable bailers. The samples will be placed from the pump or bailer directly into laboratory-supplied containers appropriate for the desired analyses. The samples will be properly labeled and then placed in an ice-filled cooler for transport to the laboratory under chain-of-custody documentation.

After collecting soil and groundwater samples, the exploratory boring is abandoned by removing the PVC casing, backfilling the hole with neat cement grout from the bottom to the top of the boring and finishing the surface to match the surrounding material of either asphalt or concrete. After collecting soil samples, the exploratory boring is abandoned by backfilling with neat cement grout from the bottom to the top of the boring and finished to match the surrounding material of unpaved soil, asphalt or concrete.