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September 24, 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

RECEIVED

By Alameda County Environmental Health at 3:15 pm, Sep 24, 2014

Re: **Perjury Statement-**
HVOC Delineation Investigation Report
ABF Freight System Facility (SLIC Case No. RO#0003134)
4575 Tidewater Avenue
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". The signature is stylized and cursive.

Michael K. Rogers
Director, Real Estate
ArcBest Corporation



September 24, 2014
Project 154.008.004

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: *HVOC Delineation Investigation Report*
ABF Freight System Facility
4575 Tidewater Avenue
Oakland, California
RO#0003134

Dear Mr. Detterman:

This letter, prepared by Trinity Source Group, Inc. (Trinity) on behalf of ABF Freight System, Inc. (ABF), presents a *HVOC Delineation Investigation Report (Report)* for the referenced site (Figures 1 and 2). This *Report* is in response to the approved *Work Plan* submitted to Alameda County Environmental Health Department (ACEH) dated June 10, 2014. The *Work Plan* was approved by ACEH in a *Correspondence* dated July 11, 2014. This *Report* focuses on the evaluation and delineation of the presence of halogenated volatile organic compounds (HVOCs) in the soil and groundwater, beneath the maintenance and repair building. The ACEH approved *Work Plan* and ACEH correspondence are included in Attachment A of this *Report*.

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 (Figure 1). Land-use in the area is industrial.

Currently, the site is in use as a trucking terminal, with a maintenance and repair building located near the western property boundary. One aboveground storage tank that existed adjacent to the maintenance and repair building was labeled with "Diesel Fuel", "Not in Use", and "Permanently Closed Jan. 1995" was removed by ABF on August 13, 2014. 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. A detailed history of previous environmental activity can be found in the *Work Plan*, which is included in Attachment A.

SCOPE OF WORK

On August 26, 2014, Trinity staff advanced six soil borings in the ABF maintenance and repair shop to collect soil and grab-groundwater samples for laboratory analysis. The soil boring locations were based on previous environmental investigations to determine and evaluate potential HVOC impacts to soil and groundwater in the maintenance and repair shop.

Prefield

Prefield tasks included obtaining soil boring permits from the Alameda County Public Works Agency (ACPWA), preparing a site-specific health and safety plan, and notifying ACPWA inspectors as needed. In addition, Trinity staff marked all boring locations and notified Underground Service Alert North (USA), and opened a USA dig ticket (#337478) for underground utility clearance. Permits are included as Attachment B.

Soil Borings and Sampling

On August 26, 2014, Trinity staff advanced six soil borings in the ABF maintenance and repair shop using a direct push rig. Boring locations are shown on Figure 2. Each boring was advanced to five feet below the first-encountered water to an approximate depth of 11.5 feet (ft) below ground surface (bgs). Soils were logged using the Unified Soils Classification System (USCS) by Trinity staff, and screened for volatile organic compounds (VOCs) at two-foot intervals using a photoionization detector (PID). One soil sample was collected per borehole, and a grab-groundwater sample was collected from each boring at the observed water-bearing zone. A clean, temporary ¾-inch PVC well casing was placed in each borehole, with five feet of screen installed at the observed water-bearing zone (bottom of boring) to facilitate grab-groundwater sampling.

Soil samples for laboratory analysis were collected using laboratory-supplied TerraCore™ samplers and associated bottleware. The groundwater samples were collected using a peristaltic pump. Complete soil and groundwater assessment field procedures are presented in Attachment C. Boring logs are included in Attachment D. All samples were labeled, and placed on ice with chain-of-custody documentation for transport to ESC Lab Sciences (ESC), a California certified laboratory (NELAP #01157CA).

Soil boring and sampling equipment were cleaned with a trisodium phosphate solution followed by a double rinse in clean water between soil samples and boring locations. Upon completion of sampling, all borings were backfilled to surface grade with neat cement grout under ACPWA inspector supervision.

Laboratory Analysis

Trinity shipped the soil and grab-groundwater samples to ESC Lab Sciences (ESC) for analysis. Sample analyses are listed below:

Soil samples were analyzed for:

- Tetrachloroethene (PCE) and related breakdown compounds including trichloroethene (TCE), 1,1-dichloroethene, cis-1,2-dichloroethene, and vinyl chloride, and for carbon tetrachloride by EPA Method 8260B
- Benzene, toluene, ethyl benzene, and total xylenes (collectively BTEX compounds) by EPA Method 8260B
- Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8260B
- Total petroleum hydrocarbons as diesel (TPHd) and Total petroleum hydrocarbons as motor oil (TPHmo) by EPA Method 8015 with silica gel cleanup.
- CAM-17 metals analysis was performed only on the composite drum sample for proper waste characterization.

Grab-groundwater samples were analyzed for:

- PCE and the related HVOCs listed above by EPA Method 8260B
- BTEX compounds by EPA Method 8260B (excluding Borings SB-3 and SB-5)
- TPHg by EPA Method 8260B (excluding Borings SB-3 and SB-5)
- TPHd and TPHmo by EPA Method 8015 with silica gel cleanup (excluding Borings SB-3 and SB-5)

Investigation-Derived Waste

All investigation-derived waste was stored on-site in a Department of Transportation approved 55-gallon steel drum, and upon proper characterization the drum will be transported and disposed of by an appropriate waste hauler. The disposal documentation and manifest will be submitted on a later date upon disposal completion.

RESULTS

Hydrogeologic Conditions

The soils encountered during the drilling of soil Borings SB-1 through SB-6 consisted primarily of a poorly graded fine to coarse grained sand, sandy clay, silty sand, and clayey silt (Bay mud) to the total depth explored of approximately 11.5 ft bgs. Each boring encountered six-inch thick concrete floor with fill material underneath, extending to approximately 8 inches up to 3.5 ft bgs.

Groundwater at the time of drilling was first encountered at 6 to 7.5 ft bgs in all six borings. After drilling, the static groundwater levels were measured in the ¾-inch temporary PVC casing and ranged from 6 to 9.6 ft bgs.

During drilling, a very strong petroleum hydrocarbon odor was observed in the acetate soil liner from the Boring SB-4 4-8 ft bgs sample run. A wet poorly graded sand lens with very strong petroleum hydrocarbon odor was observed in the field at approximately 7 ft bgs. No petroleum hydrocarbon odor was observed at approximately 8 ft bgs. Boring SB-4 was advanced to a total depth of 11.5 ft bgs, and a ¾-inch PVC temporary well with five feet of screen was placed in the borehole for the grab groundwater sample collection. Liquid phase hydrocarbon (LPH) was observed upon pumping using a peristaltic pump in Boring SB-4. The peristaltic pump tubing was removed from the temporary well, and the well was left undisturbed to allow the groundwater to equilibrate. A micro bailer was then used to capture a sample to observe and measure the LPH. The LPH was measured in the micro bailer to be approximately three inches thick. A grab-groundwater sample was then collected using the peristaltic pump for HVOC delineation and to analyze for specific petroleum hydrocarbon ranges. The laboratory data suggests that the LPH mainly consists of diesel fuel and some motor oil. After sampling, the temporary well was removed and the borehole was backfilled with Portland cement to surface grade. Due to the presence of this LPH, the soil and grab-groundwater samples from the other borings were also analyzed for petroleum hydrocarbons and BTEX (as sample quantity allowed).

Soil and Groundwater Analytical Results

The soil analytical data described below is presented in Table 1 and summarized on Figure 3. Soil samples were screened using a PID and the VOC readings in parts per million per volume (ppmv) can be found in the PID column of the boring logs, which are presented in Attachment D.

All soil samples were collected from approximately 3.5 ft bgs to determine the presence of shallow HVOC impacts and/or to locate a potential shallow source area. The soil boring locations were chosen based on elevated sub-slab soil vapor results from previous environmental investigations, as described in the *Work Plan*.

Soil Analytical Data

The soil analytical data described below is presented in Table 1 and summarized on Figure 3.

- TPHg was not detected above the laboratory reporting limits in any of the soil samples collected.
- TPHd was detected above the minimum detection level, but below the laboratory reporting limit only in Boring SB-3 at a concentration of 3.2 milligrams per kilogram (mg/kg).
- TPHmo was detected in all six of the soil samples with concentrations ranging from 0.69 mg/kg in Boring SB-1, to 87 mg/kg in Boring SB-5.
- Benzene was detected above the minimum detection level, but below the laboratory reporting limit in Borings SB-1 and SB-6, with concentrations of 0.00051 mg/kg and 0.00042 mg/kg, respectively.
- HVOCs were not detected in any of the soil samples.

All reported detections in the soil were below the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) commercial, shallow soil environmental screening levels (ESLs) with groundwater not a current or potential drinking water resource. Certified laboratory reports, chain-of-custody documentation and GeoTracker upload documentation are presented in Attachment E.

Grab-Groundwater Analytical Data

The grab-groundwater analytical data described below is presented in Table 2 and summarized on Figure 3.

- TPHg was detected only in Boring SB-4 at a concentration of 810 micrograms per liter ($\mu\text{g/L}$). This detection exceeds the commercial ESL of 500 $\mu\text{g/L}$ for aquatic receptors with groundwater not a current or potential drinking water resource. The laboratory indicated by email that the chromatogram did not match the gasoline standard, but resembled diesel.
- TPHd was detected in all four of the collected samples with concentrations ranging from 170 $\mu\text{g/L}$ in Boring SB-6 to 6,200 $\mu\text{g/L}$ in Boring SB-4. The SB-4 sample is the only sample that exceeds the ESL of 640 $\mu\text{g/L}$ for TPHd.
- TPHmo was detected in all four of the collected samples with concentrations ranging from 110 $\mu\text{g/L}$ in Boring SB-6 to 1,200 $\mu\text{g/L}$ in Boring SB-4. The SB-4 sample is the only sample that exceeds the ESL of 640 $\mu\text{g/L}$ for TPHmo.
- Benzene was detected above the minimum detection level, but below the laboratory reporting limit only in Boring SB-4 with a concentration of 0.61 $\mu\text{g/L}$.
- Toluene was detected above the minimum detection level, but below the laboratory reporting limit only in Boring SB-4 with a concentration of 0.79 $\mu\text{g/L}$.
- Ethyl benzene was detected only in Boring SB-4 at a concentration of 3.8 $\mu\text{g/L}$.
- Total xylenes were detected only in Boring SB-4 at a concentration of 9.1 $\mu\text{g/L}$.
- HVOCs were not detected in any of the collected samples.

All reported detections in the groundwater were below the commercial SFBRWQCB groundwater ESLs for aquatic receptors with groundwater not a current or potential drinking water resource, with the noted exceptions in Boring SB-4, which also contained LPH. Certified laboratory reports, chain-of-custody documentation and GeoTracker upload documentation are presented in Attachment E.

CONCLUSIONS AND RECOMMENDATIONS

No HVOCs were detected in any of the soil and grab-groundwater samples, warranting no further action in regards to further HVOC delineation in the ABF maintenance and repair shop.

LPH was observed in Boring SB-4, located near the sub-slab soil vapor probe (SVP-2) and the sewer line in the center of the building. The LPH was measured to be three inches thick as observed in a bailer. The

lateral and vertical extent of the petroleum hydrocarbon impact is sufficiently delineated, as Boring SB-4 is completely surrounded by five other borings to the north, south, west, and east that showed very minimal impact. All samples from the surrounding five borings were below the ESLs for TPHg, TPHd, TPHmo, and BTEX compounds, indicating that the encountered LPH is localized to the immediate vicinity of Boring B-4, in the center of the building. Trinity recommends evaluating options for LPH removal to the extent practicable, and implementing an option that will lead to case closure.

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

Eric Choi
Project Scientist

Attachments:

- Table 1: Soil Analytical Data
- Table 2: Grab-Groundwater Analytical Data

- Figure 1: Site Location Map
- Figure 2: Soil Boring Location Map
- Figure 3: Soil and Grab-Groundwater Analytical Data Map

- Attachment A: ACEH Approved Work Plan, Dated June 10, 2014 and ACEH Correspondence, Dated July 11, 2014
- Attachment B: ACPWA Well Permits
- Attachment C: Soil and Grab-Groundwater Sampling Field Procedures
- Attachment D: Boring Logs
- Attachment E: Certified Laboratory Reports, Chain-of-Custody Documentation, and GeoTracker Upload Documentation

DISTRIBUTION

A copy of this report has been forwarded to:

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

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

TABLES

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													
			8260B (mg/kg)											8015 (mg/kg)		
			TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,1-DCE	cis-1,2-DCE	PCE	TCE	Vinyl Chloride	Carbon Tetrachloride	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	<4.5	0.69 ^A
SB-2	8/26/2014	3.5	<0.58	<0.0012	<0.0058	<0.0012	<0.0035	<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	0.00066 ^A	<0.0012	<0.0036	<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	<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	<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	<4.5	3.6 ^A
			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	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
 TPHd = Total Petroleum Hydrocarbons - Diesel Range (C10-C28)
 TPHmo = Total Petroleum Hydrocarbons - Motor Oil Range (C28-C40)
 mg/kg = Milligrams per kilogram
 < = Not detected at or above detection limit
 NA = Not analyzed
 A = (EPA) Estimated value below the lowest calibration point. Confidence correlates with concentration.
 SFRWQCB = San Francisco Bay Regional Water Quality Control Board, California EPA, December 2013,
http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml.
 ESLs = Environmental Screening Levels (Updated December 2013)
Bold = Exceeds ESL concentration

Table 2
Grab-Groundwater Analytical Data

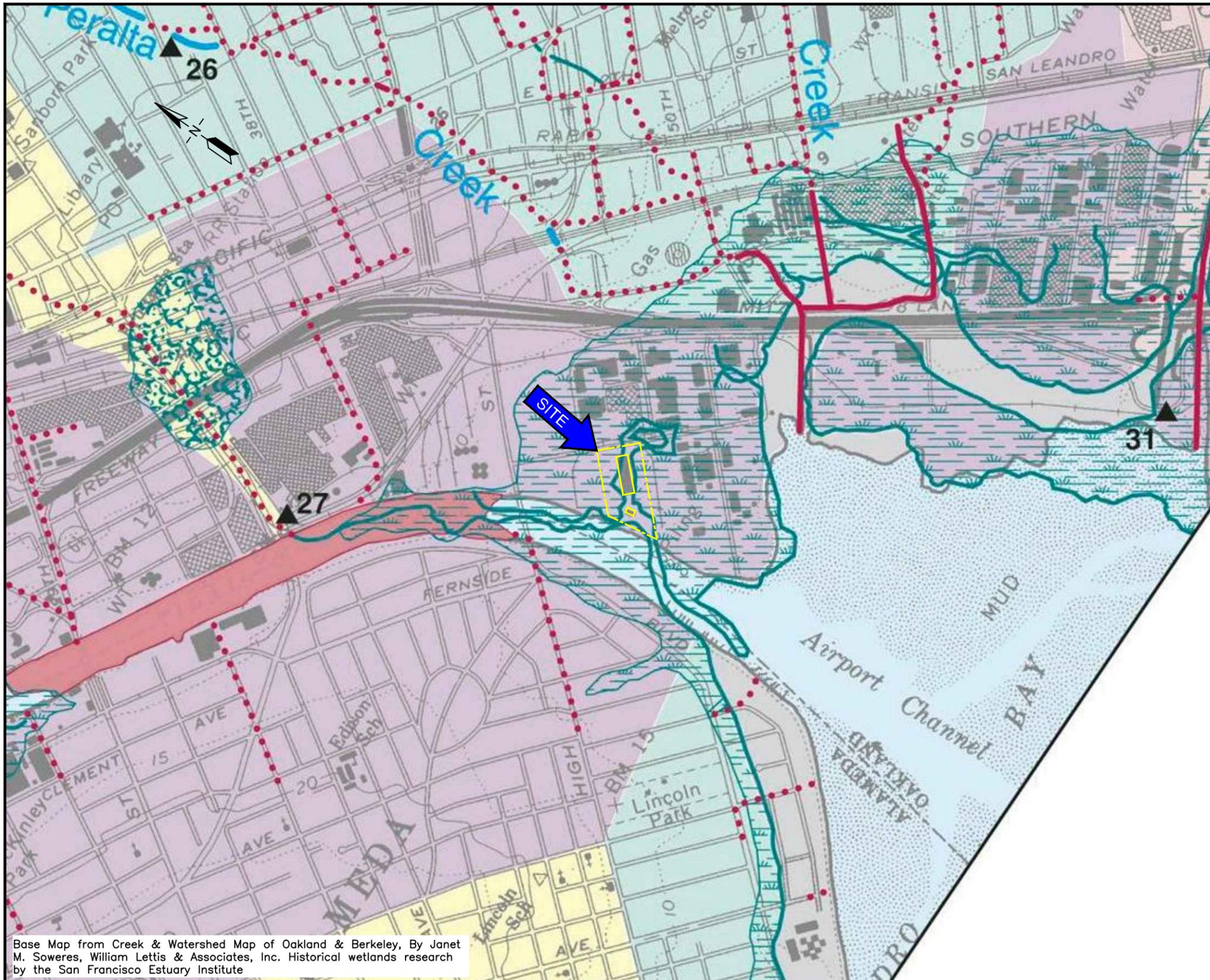
ABF Freight System, Inc.
4575 Tidewater Avenue
Oakland, California

Sample ID	Sample Date	EPA Analytical Test Method												8015 (µg/L)	
		8260B (µg/L)											TPHd	TPHmo	
		TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,1-DCE	cis-1,2-DCE	PCE	TCE	Vinyl Chloride	Carbon Tetrachloride			
Grab Groundwater Samples Collected From Soil Borings															
SB-1	8/26/2014	<500	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	460	160
SB-2	8/26/2014	<500	<1.0	<5.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	580	210
SB-3	8/26/2014	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
SB-4	8/26/2014	810	0.61 ^A	0.79 ^A	3.8	9.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6200	1200
SB-5	8/26/2014	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
SB-6	8/26/2014	<500	<1.0	<5.0 ^{B,C}	<1.0 ^C	<3.0 ^{B,C}	<1.0 ^{B,C}	<1.0	<1.0 ^C	<1.0 ^B	<1.0	<1.0 ^B	<1.0	170	110
Commercial SFRWQCB ESLs - Groundwater Screening Levels - Aquatic Receptor, Not a Current or Potential Drinking Water Resource															
		500	46	130	43	100	25	590	120	360	780	9.8	640	640	

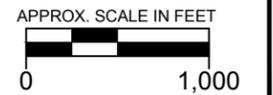
Notes:

EPA = Environmental Protection Agency
 SB = Soil Boring
 TPHg = Total Petroleum Hydrocarbons - Gasoline Range
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 TPHmo = Total Petroleum Hydrocarbons - Motor Oil Range (C28-C40)
 µg/L = Micrograms per liter
 < = Not detected at or above detection limit
 NA = Not analyzed
 A = (EPA) Estimated value below the lowest calibration point. Confidence correlates with concentration.
 B = 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
 SFRWQCB = San Francisco Bay Regional Water Quality Control Board, California EPA, December 2013,
http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.shtml.
 ESLs = Environmental Screening Levels (Updated December 2013)
Bold = Exceeds ESL concentration

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



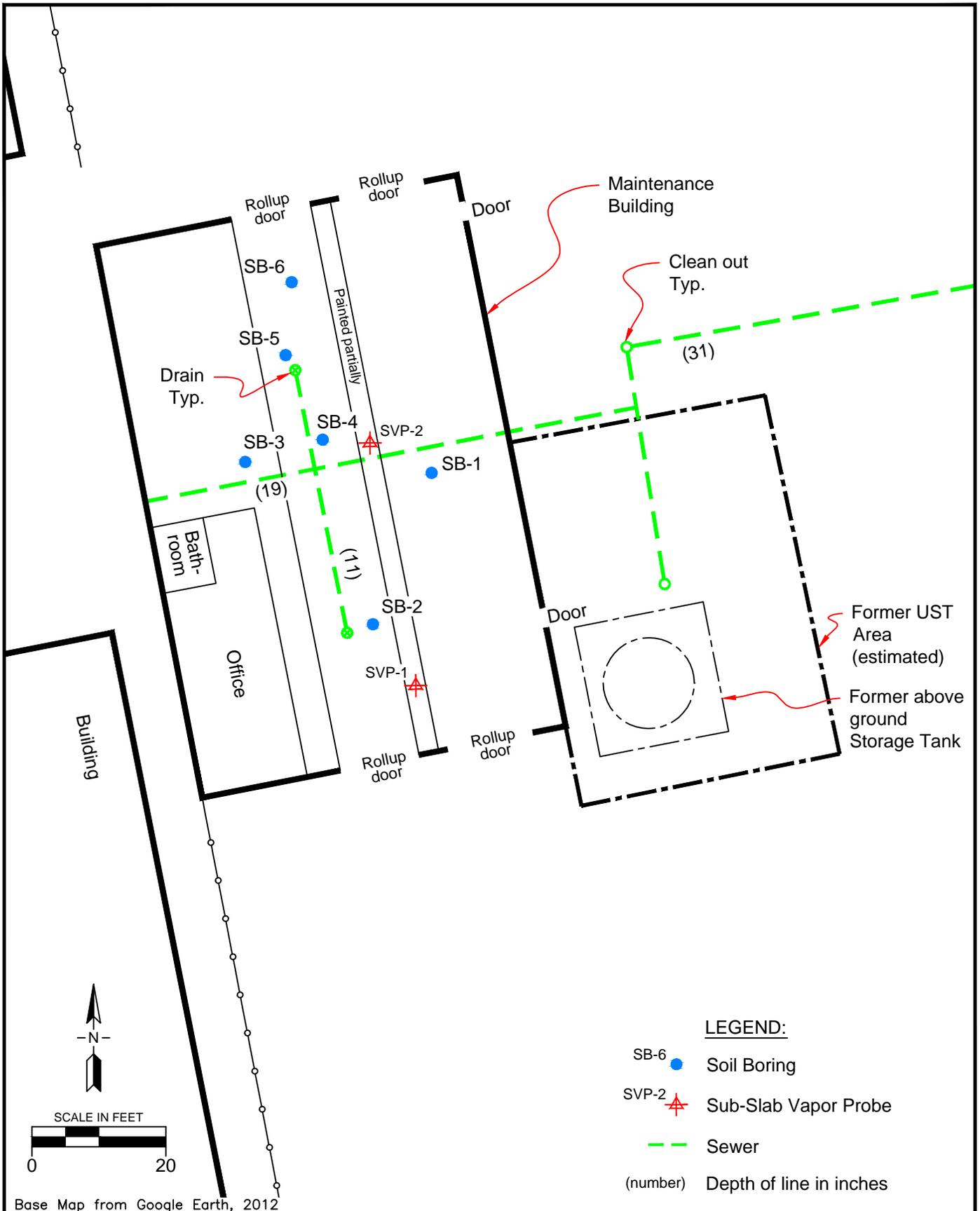
Base Map from Creek & Watershed Map of Oakland & Berkeley, By Janet M. Sowers, William Lettis & Associates, Inc. Historical wetlands research by the San Francisco Estuary Institute

PREPARED BY
TRINITY
source group, inc.
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 119 Encinal Street
 Santa Cruz, California 95060
 v: 831.426.5600
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SITE LOCATION MAP

ABF Freight System Facility
 4575 Tidewater Ave.
 Oakland, California

PROJECT:
 154.008.004
 FIGURE:
 1



LEGEND:

- SB-6 ● Soil Boring
- SVP-2 ▲ Sub-Slab Vapor Probe
- Sewer
- (number) Depth of line in inches

REF. 154_001 \ 154.008.004 fig3.dwg

Base Map from Google Earth, 2012

PREPARED BY



TRINITY
source group, inc.
Environmental Consultants

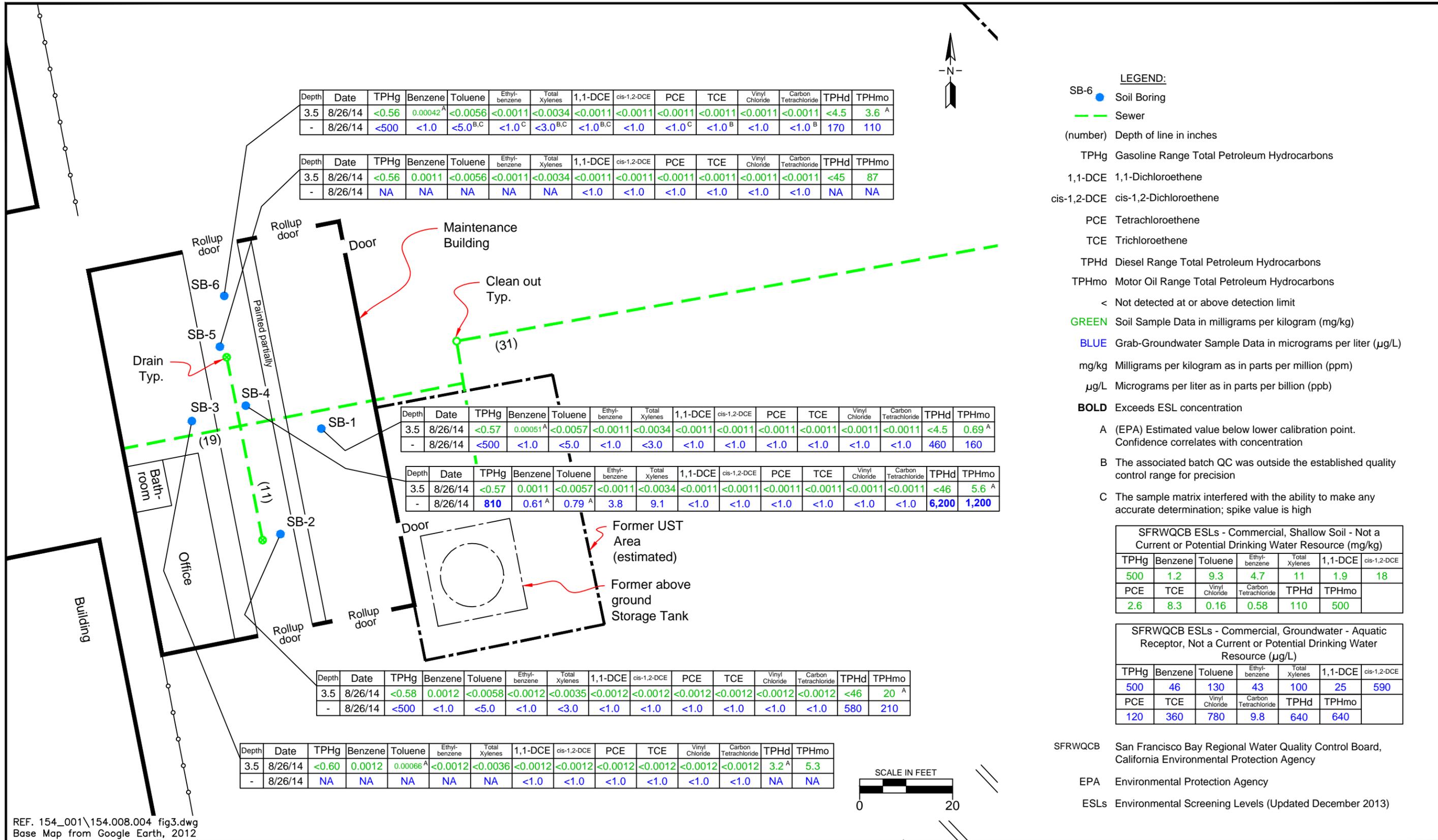
119 Encinal Street
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SOIL BORING LOCATION MAP

ABF Freight System Facility
4575 Tidewater Ave.
Oakland, California

PROJECT:
154.008.004

FIGURE:
2



REF. 154_001\154.008.004 fig3.dwg
 Base Map from Google Earth, 2012

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SOIL AND GRAB-GROUNDWATER ANALYTICAL DATA MAP

ABF Freight System Facility
 4575 Tidewater Ave.
 Oakland, California



SFRWQCB San Francisco Bay Regional Water Quality Control Board, California Environmental Protection Agency
 EPA Environmental Protection Agency
 ESLs Environmental Screening Levels (Updated December 2013)

PROJECT:
 154.008.004
 FIGURE:
 3

ATTACHMENT A

**ACEH Approved Work Plan, Dated June 10, 2014 and
ACEH Correspondence, Dated July 11, 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#0003134)
4575 Tidewater Avenue
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#0003134

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:

ID = Identification
% = Percentage
µg/m ³ = 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

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

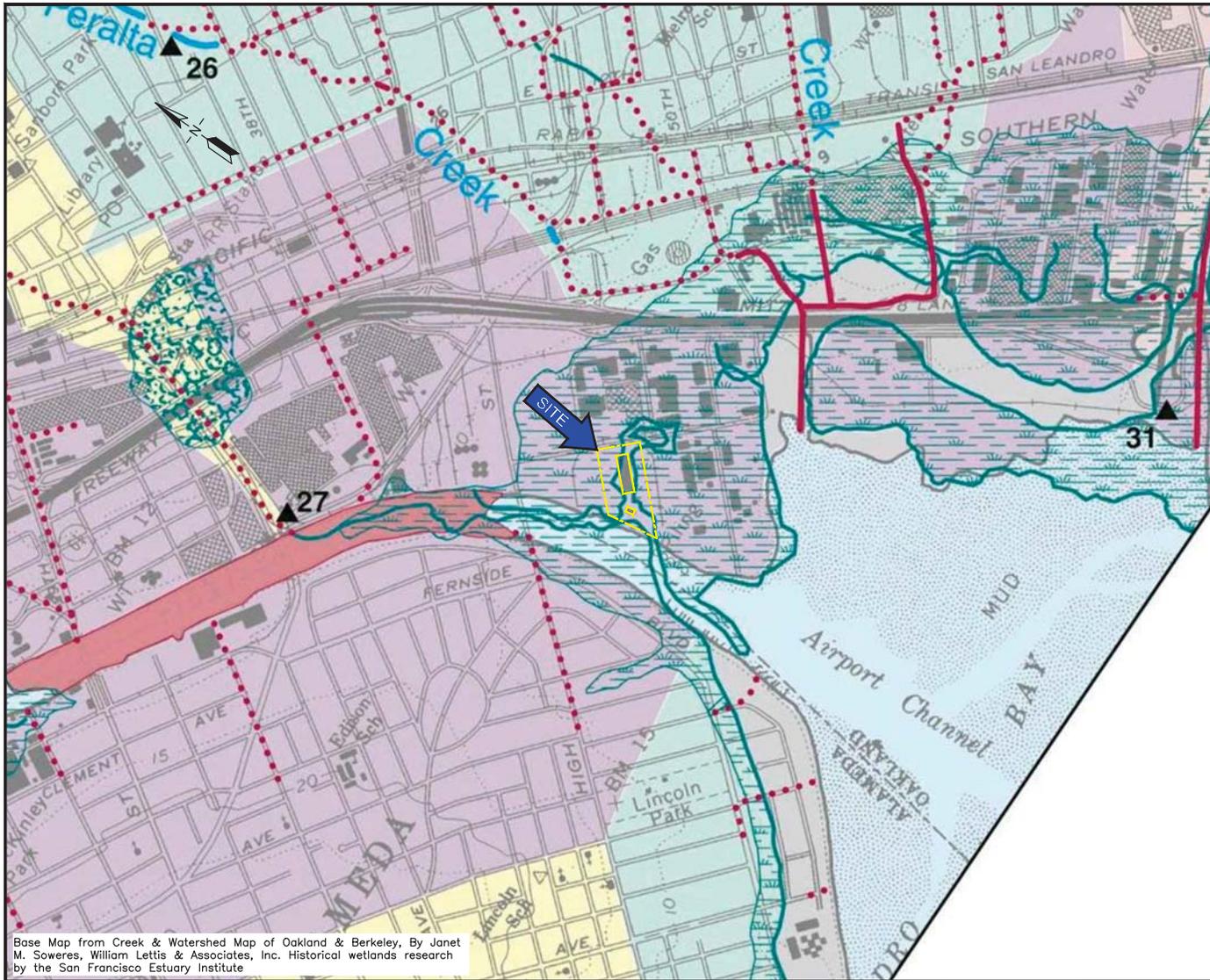
ABF Freight System Facility
4575 Tidewater Avenue
Oakland, California

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

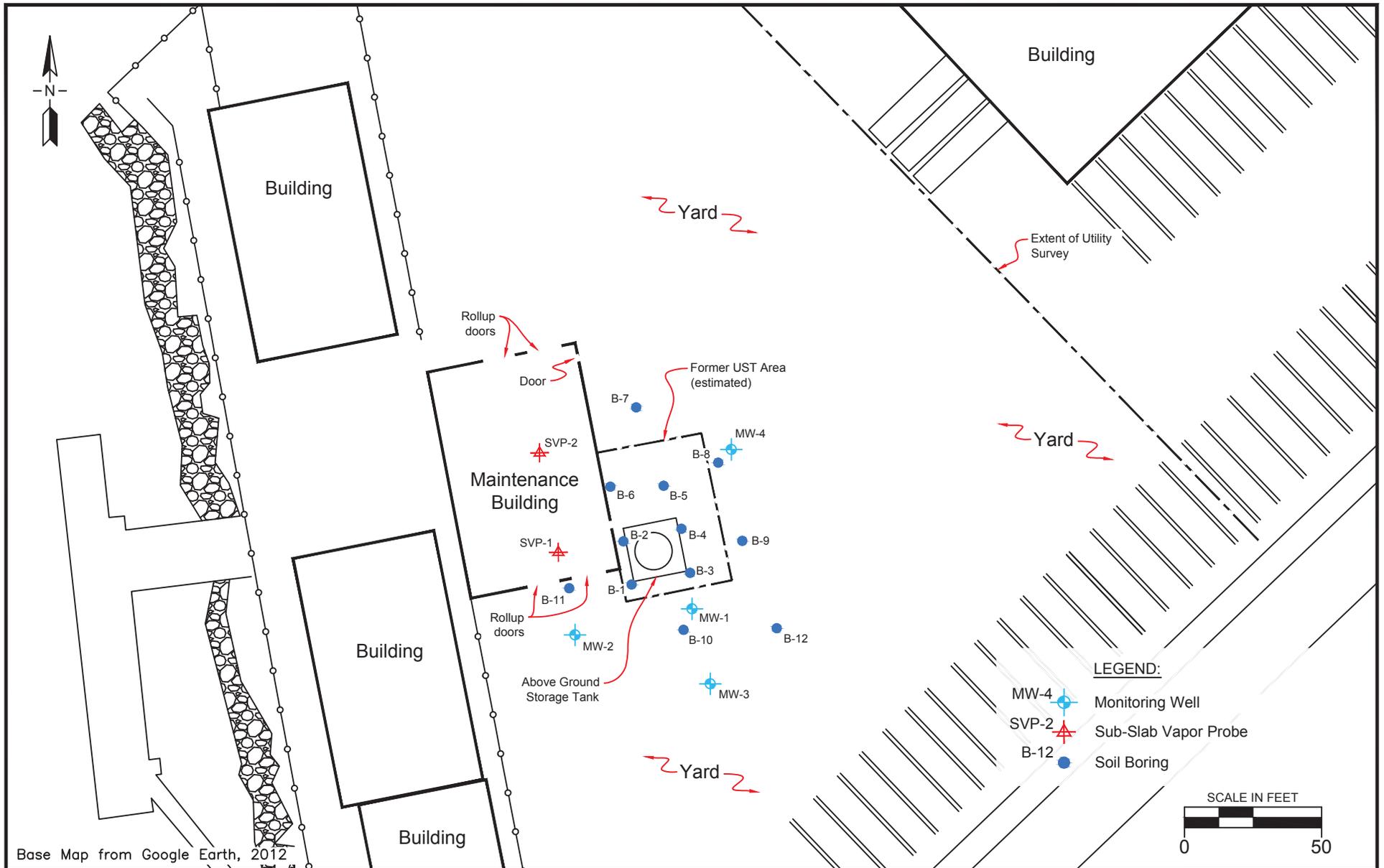
119 Encinal Street
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

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

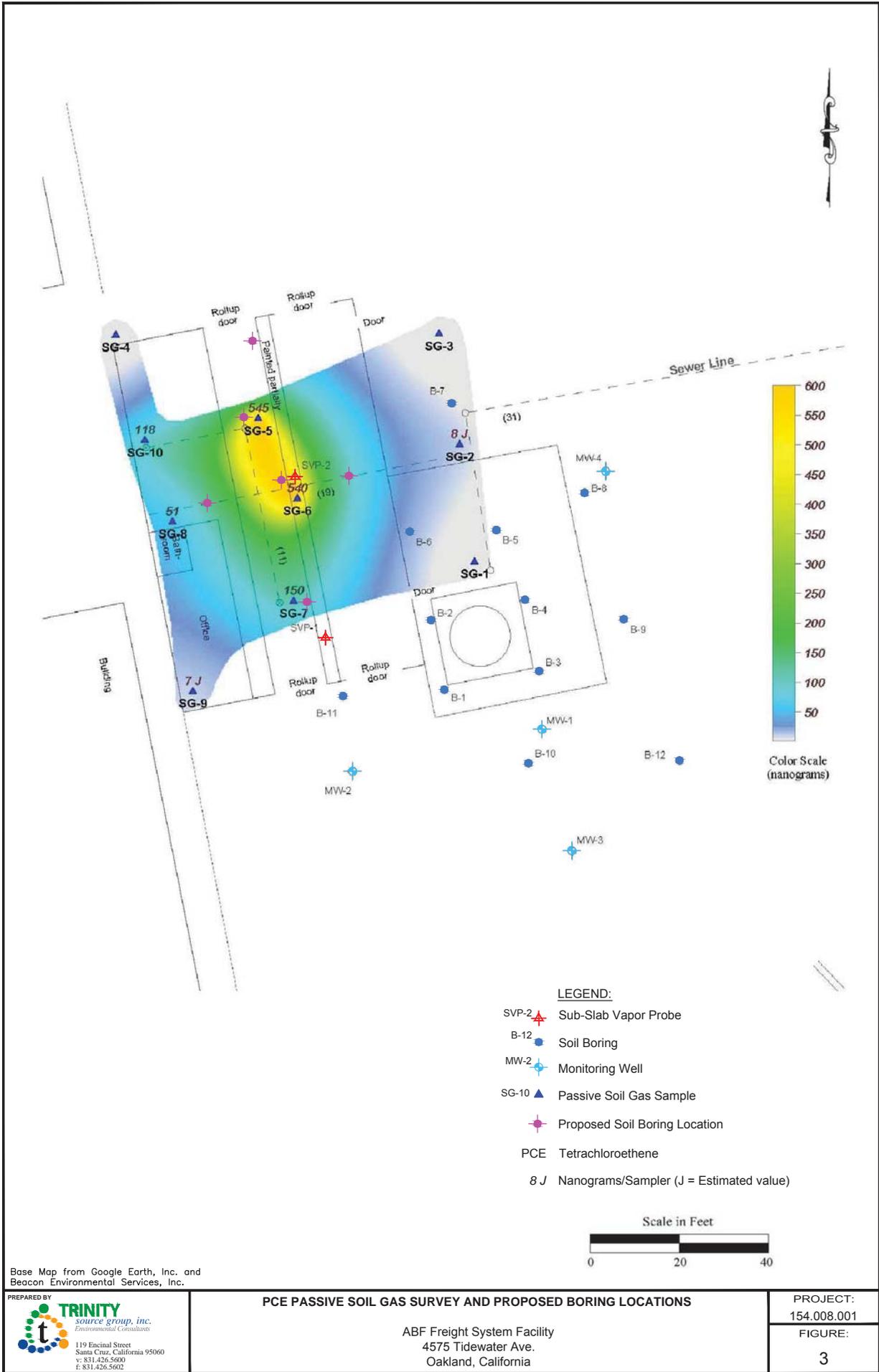
119 Encinal Street
Santa Cruz, California 95060
v: 831.426.5600
f: 831.426.5602

**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



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

REF. 154_001\154.008.001_fig3.dwg

ATTACHMENT A

ACEH Letter Dated April 9, 2014



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.

ATTACHMENT B

ACPWA Well Permits



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

July 11, 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: Approval of Work Plan; Site Cleanup Program Case No. RO0003134 and GeoTracker Global ID T00000005825, ABF Freight Maintenance Shop, 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 *Soil HVOC Delineation Work Plan*, dated June 9, 2014. The report was prepared and submitted on your behalf by the Trinity Source Group, Inc (Trinity). Thank you for the work plan. The work plan proposed the installation of six shallow soil bores to evaluate maintenance shop floor drains as potential sources for the Halogenated Volatile Organic Compounds (HVOCs; principally tetrachloroethene [PCE] and trichloroethene [TCE]). The work plan proposes to collect soil and grab groundwater samples adjacent to floor drains to define potential soil and groundwater contamination near the drains. Two of the soil bores are adjacent to the two floor drains that contain vapor concentrations above appropriate San Francisco Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs).

Based on ACEH staff review of the referenced documents and of the case file we generally concur with the recently proposed scope of work, provided that the modifications requested in the technical comments below are addressed and incorporated during the field implementation. Submittal of a revised work plan or a work plan addendum is not required unless an alternate scope of work outside that described in the work plan or technical comments below is proposed. We request that you address the following technical comments, submit the requested document, and upon ACEH approval, perform the proposed work, and send us the technical reports requested below. Please provide 72-hour advance written notification to this office (e-mail preferred to: mark.detterman@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

- 1. Human Health Exposure Determination** – ACEH is in general agreement with the proposed scope of work. ACEH anticipates that the work will help define the lateral extent of soil and groundwater contamination and may narrow the area of a future vapor survey as generally discussed in ACEH's April 9, 2014 directive letter. Please submit a site investigation report by the date identified below.

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:

- **September 26, 2014** – Site Investigation Report
File to be named: RO3134_SWI_R_yyyy-mm-dd

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

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,



Mark E. Detterman
Senior Hazardous Materials Specialist
Phone: (510) 567-6876
Fax: (510) 567-6876
Email: mark.detterman@acgov.org

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, 119 Encinal Street, Santa Cruz, CA 95060
(sent via electronic mail to djm@tsgcorp.net)

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 REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). 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, 6835, 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, later 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 SLIC)	REVISION DATE: May 15, 2014
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) 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 C

Soil and Grab-Groundwater Sampling Field Procedures

ATTACHMENT C

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; (5) performing field review of USA markings; and (6) hand clearing each boring to a depth of 5 feet below ground surface (bgs). Additional tasks include completing a site-specific health and safety plan and scheduling inspectors.

Exploratory Soil Borings

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 intervals are sampled from undisturbed soil out of the slide hammer sleeve or the acetate liner with a single-use plunger which removes a predetermined volume of soil. This subsample is extruded into laboratory-supplied TerraCore™ preservation vials, properly labeled and then placed in an ice-filled cooler for transport to the laboratory under chain-of-custody documentation. The

TerraCore™ vials are prepared with preservatives consisting of either sodium bisulfate solution or methanol. These samples are used for volatile organic compound analysis.

Soil samples for dry weight analysis are taken from the hand-auger bucket or soil core and placed into 2-ounce glass jars as directed by the analytical laboratory, labeled, and transported to the laboratory under chain-of-custody documentation.

When static groundwater is reached, a grab-groundwater sample is collected by use of a temporary well that consists of clean slotted PVC casing placed into the borehole. The temporary wells are left undisturbed until sufficient water has recharged. The wells are then purged and sampled using a peristaltic pump or clean, disposable bailers. The samples are placed from the pump or bailer directly into laboratory-supplied containers appropriate for the desired analyses. The samples are 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.

ATTACHMENT D

Boring Logs

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		CLEAN SANDS (LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SC	CLAYEY SANDS, SAND - CLAY MIXTURES
	FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS	
			CH	INORGANIC CLAYS OF HIGH PLASTICITY	
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

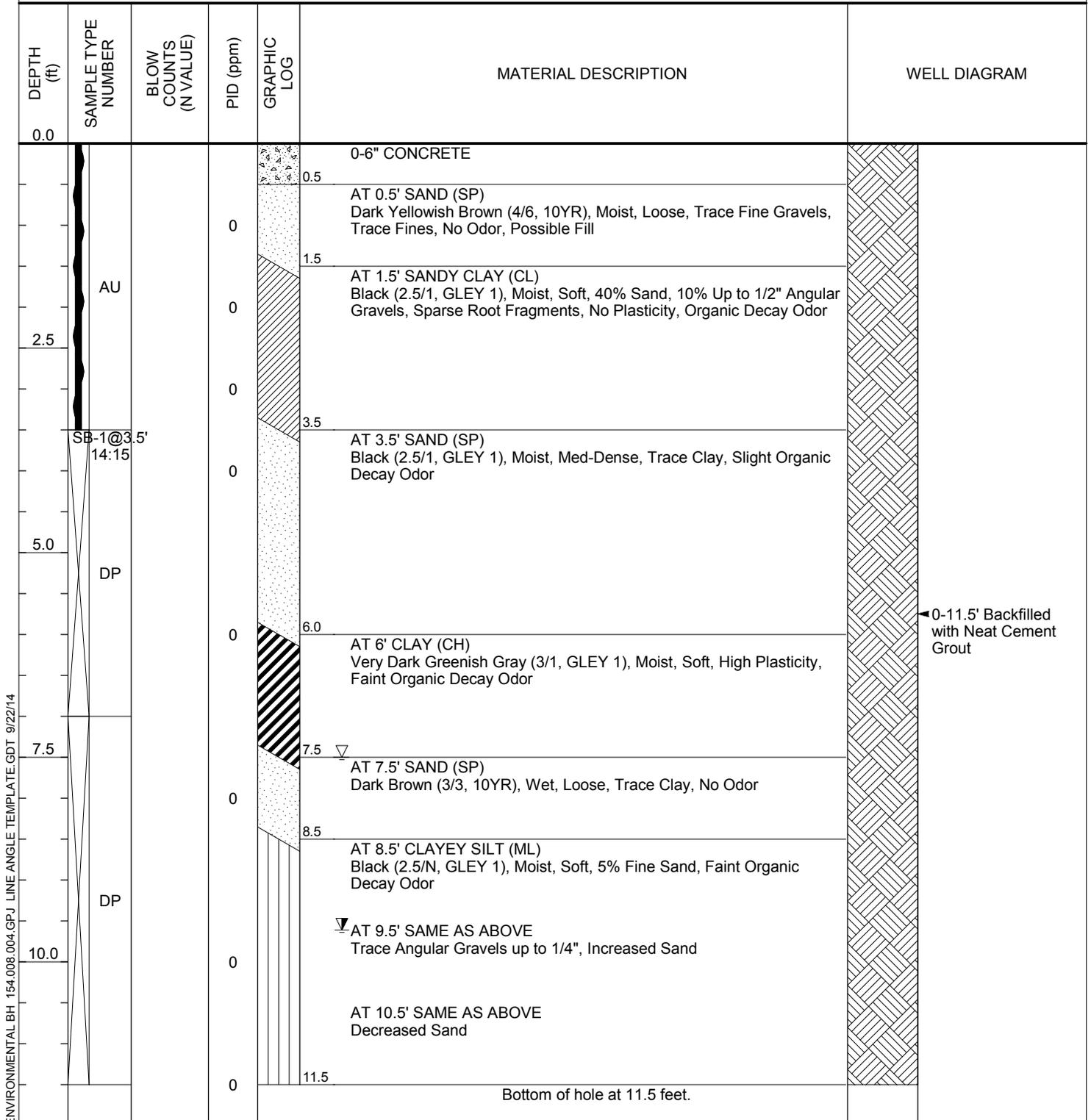


Trinity Source Group
 119 Encinal Street
 Santa Cruz, CA 95060
 Telephone: 831.426.5600
 Fax: 831.426.5602

BORING NUMBER SB-1

PAGE 1 OF 1

CLIENT ABF Freight System, Inc.	PROJECT NAME HVOC Delineation
PROJECT NUMBER 154.008.004	PROJECT LOCATION 4575 Tidewater Avenue, Oakland, CA
DATE STARTED 8/26/14	COMPLETED 8/26/14
DRILLING CONTRACTOR Trinity and ECA	GROUND ELEVATION _____
DRILLING METHOD Hand Auger/Direct Push	HOLE SIZE 2.25"
LOGGED BY S. Davis	CHECKED BY D. Moser
NOTES	GROUND WATER LEVELS:
	▽ AT TIME OF DRILLING 7.5 ft
	AT END OF DRILLING ---
	▽ AFTER DRILLING 9.6 ft



ENVIRONMENTAL BH 154.008.004.GPJ LINE ANGLE TEMPLATE.GDT 9/22/14

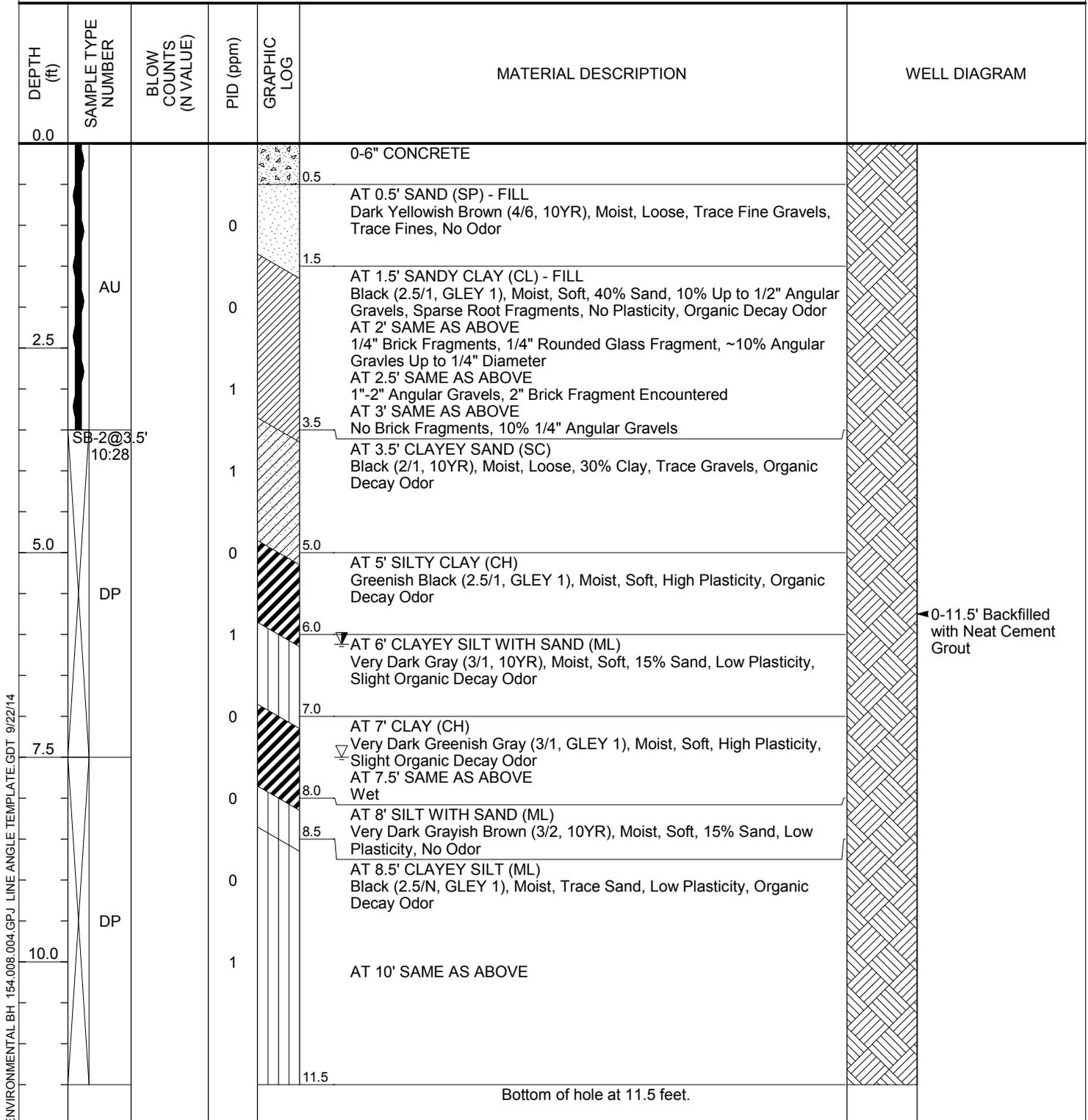


Trinity Source Group
 119 Encinal Street
 Santa Cruz, CA 95060
 Telephone: 831.426.5600
 Fax: 831.426.5602

BORING NUMBER SB-2

PAGE 1 OF 1

CLIENT ABF Freight System, Inc.	PROJECT NAME HVOC Delineation
PROJECT NUMBER 154.008.004	PROJECT LOCATION 4575 Tidewater Avenue, Oakland, CA
DATE STARTED 8/26/14	COMPLETED 8/26/14
DRILLING CONTRACTOR Trinity and ECA	GROUND ELEVATION _____
DRILLING METHOD Hand Auger/Direct Push	HOLE SIZE 2.25"
LOGGED BY S. Davis	CHECKED BY D. Moser
NOTES	GROUND WATER LEVELS:
	∇ AT TIME OF DRILLING 7.5 ft
	∇ AT END OF DRILLING ---
	∇ AFTER DRILLING 6.1 ft



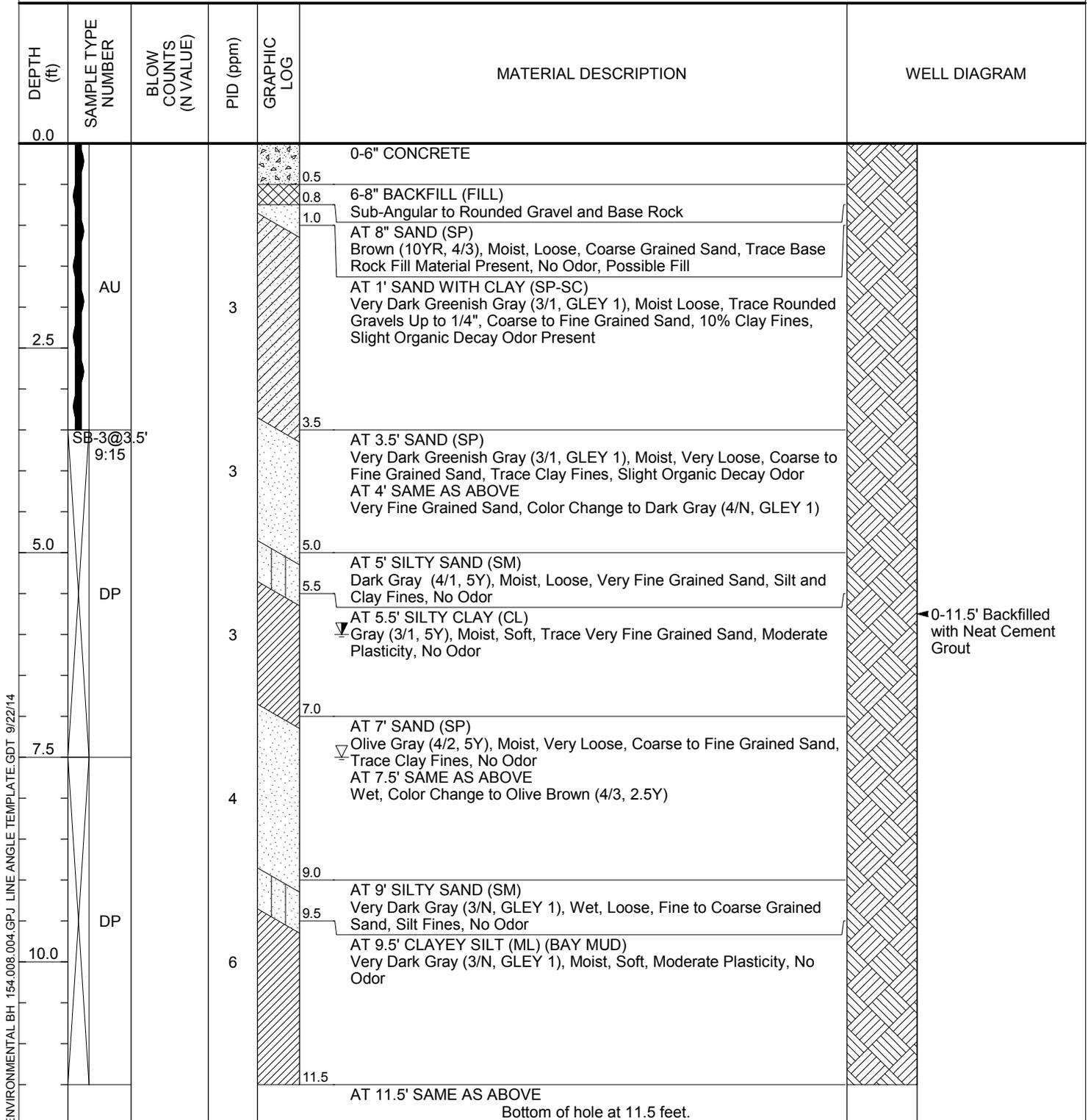


Trinity Source Group
 119 Encinal Street
 Santa Cruz, CA 95060
 Telephone: 831.426.5600
 Fax: 831.426.5602

BORING NUMBER SB-3

PAGE 1 OF 1

CLIENT ABF Freight System, Inc.	PROJECT NAME HVOC Delineation
PROJECT NUMBER 154.008.004	PROJECT LOCATION 4575 Tidewater Avenue, Oakland, CA
DATE STARTED 8/26/14	COMPLETED 8/26/14
DRILLING CONTRACTOR Trinity and ECA	GROUND ELEVATION _____
DRILLING METHOD Hand Auger/Direct Push	HOLE SIZE 2.25"
LOGGED BY E. Choi	CHECKED BY D. Moser
NOTES	GROUND WATER LEVELS:
	∇ AT TIME OF DRILLING 7.5 ft
	AT END OF DRILLING ---
	∇ AFTER DRILLING 6.0 ft



ENVIRONMENTAL BH 154.008.004.GPJ LINE ANGLE TEMPLATE.GDT 9/22/14

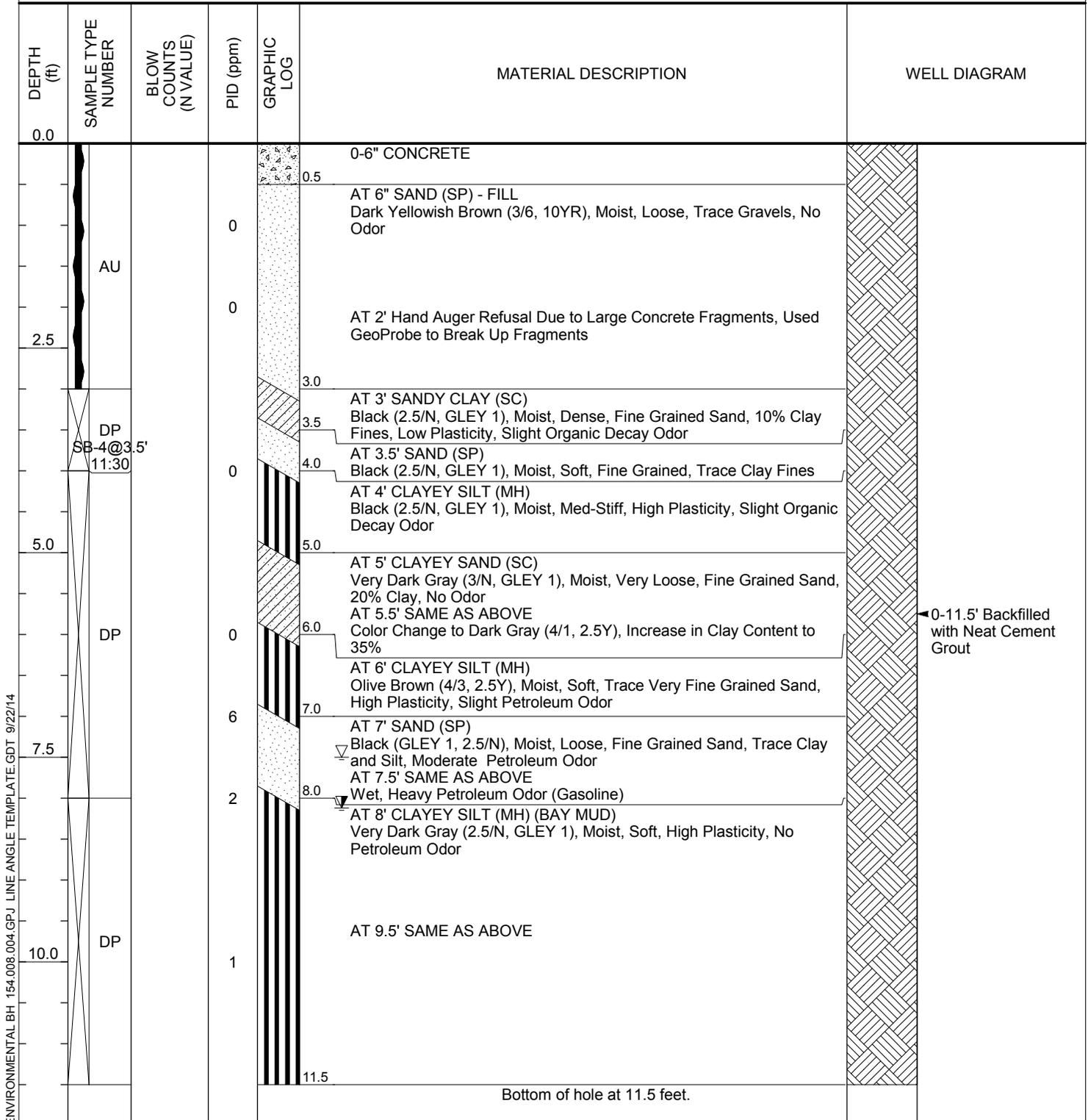


Trinity Source Group
 119 Encinal Street
 Santa Cruz, CA 95060
 Telephone: 831.426.5600
 Fax: 831.426.5602

BORING NUMBER SB-4

PAGE 1 OF 1

CLIENT ABF Freight System, Inc.	PROJECT NAME HVOC Delineation
PROJECT NUMBER 154.008.004	PROJECT LOCATION 4575 Tidewater Avenue, Oakland, CA
DATE STARTED 8/26/14	COMPLETED 8/26/14
DRILLING CONTRACTOR Trinity and ECA	GROUND ELEVATION _____
DRILLING METHOD Hand Auger/Direct Push	HOLE SIZE 2.25"
LOGGED BY S. Davis/E. Choi	CHECKED BY D. Moser
NOTES	GROUND WATER LEVELS:
	∇ AT TIME OF DRILLING 7.5 ft
	AT END OF DRILLING ---
	∇ AFTER DRILLING 8.1 ft



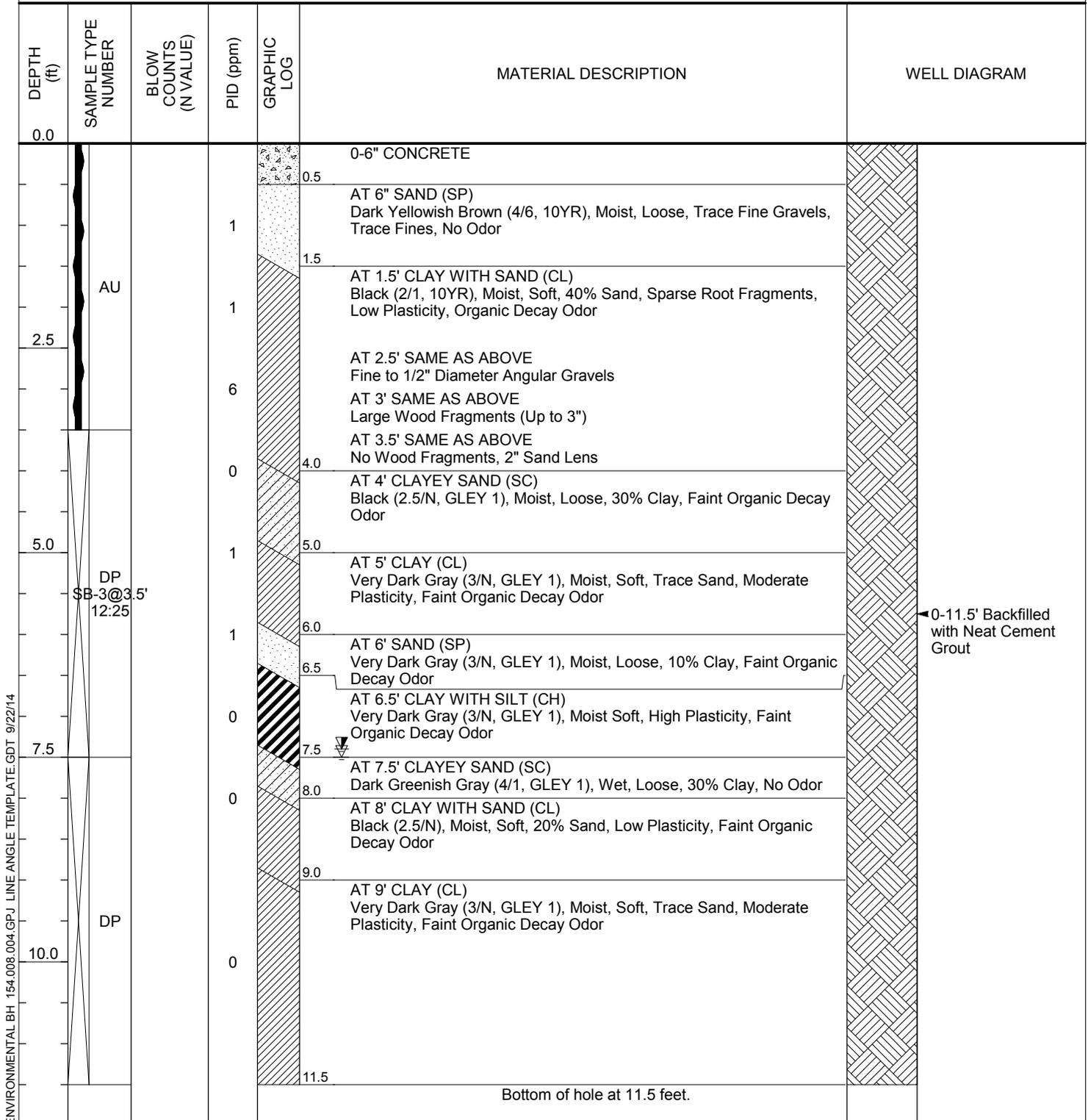


Trinity Source Group
 119 Encinal Street
 Santa Cruz, CA 95060
 Telephone: 831.426.5600
 Fax: 831.426.5602

BORING NUMBER SB-5

PAGE 1 OF 1

CLIENT ABF Freight System, Inc.	PROJECT NAME HVOC Delineation
PROJECT NUMBER 154.008.004	PROJECT LOCATION 4575 Tidewater Avenue, Oakland, CA
DATE STARTED 8/26/14	COMPLETED 8/26/14
DRILLING CONTRACTOR Trinity and ECA	GROUND ELEVATION _____
DRILLING METHOD Hand Auger/Direct Push	HOLE SIZE 2.25"
LOGGED BY S. Davis	CHECKED BY D. Moser
NOTES	GROUND WATER LEVELS:
	∇ AT TIME OF DRILLING 7.5 ft
	AT END OF DRILLING ---
	∇ AFTER DRILLING 7.4 ft



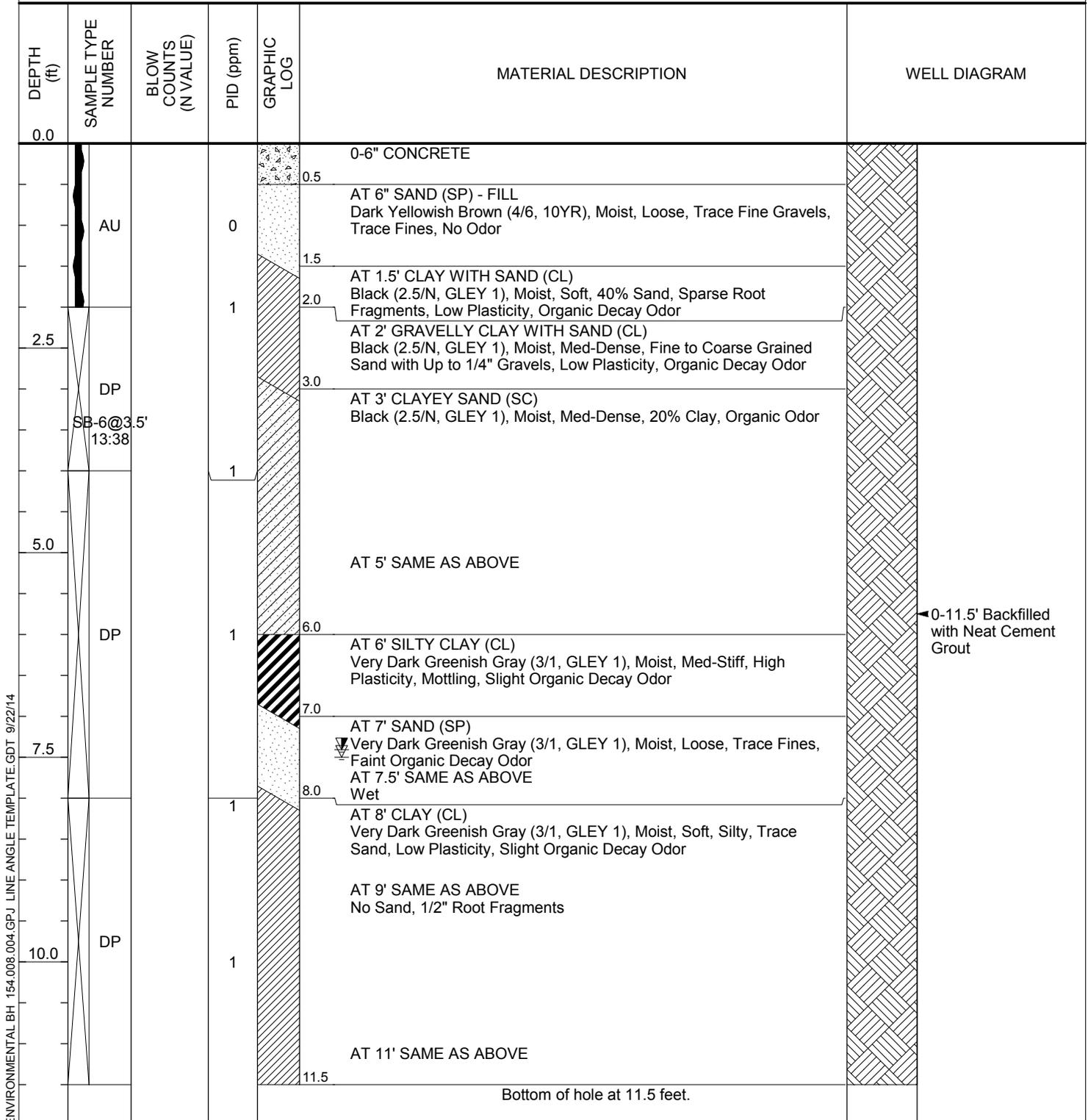


Trinity Source Group
 119 Encinal Street
 Santa Cruz, CA 95060
 Telephone: 831.426.5600
 Fax: 831.426.5602

BORING NUMBER SB-6

PAGE 1 OF 1

CLIENT ABF Freight System, Inc.	PROJECT NAME HVOC Delineation
PROJECT NUMBER 154.008.004	PROJECT LOCATION 4575 Tidewater Avenue, Oakland, CA
DATE STARTED 8/26/14	COMPLETED 8/26/14
DRILLING CONTRACTOR Trinity and ECA	GROUND ELEVATION _____
DRILLING METHOD Hand Auger/Direct Push	HOLE SIZE 2.25"
LOGGED BY S. Davis	CHECKED BY D. Moser
NOTES	GROUND WATER LEVELS:
	∇ AT TIME OF DRILLING 7.5 ft
	AT END OF DRILLING ---
	∇ AFTER DRILLING 7.4 ft



ATTACHMENT E

**Certified Laboratory Reports, Chain-of-Custody
Documentation, and GeoTracker Upload
Documentation**



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

David Reinsma
Trinity Source Group - Santa Cruz, CA
119 Encinal Street
Santa Cruz, CA 95060

Report Summary

Monday September 08, 2014

Report Number: L719046

Samples Received: 08/29/14

Client Project: 154.008.003

Description: ABF HVOC Delineation

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, CAL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

David Reinsma
 Trinity Source Group - Santa Cruz,
 119 Encinal Street
 Santa Cruz, CA 95060

September 08, 2014

Date Received : August 29, 2014
 Description : ABF HVOC Delineation

ESC Sample # : L719046-01

Sample ID : SB-1

Site ID : T000000582S

Collected By : EC/SD
 Collection Date : 08/26/14 14:40

Project # : 154.008.003

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
TPH (GC/MS) Low Fraction	U	110	500	ug/l		8260B	09/03/14	1
Benzene	U	0.33	1.0	ug/l		8260B	09/03/14	1
Toluene	U	0.78	5.0	ug/l		8260B	09/03/14	1
Ethylbenzene	U	0.38	1.0	ug/l		8260B	09/03/14	1
Xylenes, Total	U	1.1	3.0	ug/l		8260B	09/03/14	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	09/03/14	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	09/03/14	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	09/03/14	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	09/03/14	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	09/03/14	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	09/03/14	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	09/03/14	1
Dibromofluoromethane	105.			% Rec.		8260B	09/03/14	1
4-Bromofluorobenzene	97.8			% Rec.		8260B	09/03/14	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	460	22.	100	ug/l		8015	09/01/14	1
C28-C40 Oil Range	160	12.	100	ug/l		8015	09/01/14	1
Surrogate Recovery								
o-Terphenyl	88.5			% Rec.		8015	09/01/14	1

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
 MDL = Minimum Detection Limit = LOD = TRRP SDL

Note:
 The reported analytical results relate only to the sample submitted.
 This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 09/08/14 17:00 Printed: 09/08/14 17:33



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

David Reinsma
 Trinity Source Group - Santa Cruz,
 119 Encinal Street
 Santa Cruz, CA 95060

September 08, 2014

Date Received : August 29, 2014
 Description : ABF HVOC Delineation
 Sample ID : SB-2
 Collected By : EC/SD
 Collection Date : 08/26/14 10:45

ESC Sample # : L719046-02
 Site ID : T000000582S
 Project # : 154.008.003

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
TPH (GC/MS) Low Fraction	U	110	500	ug/l		8260B	09/03/14	1
Benzene	U	0.33	1.0	ug/l		8260B	09/03/14	1
Toluene	U	0.78	5.0	ug/l		8260B	09/03/14	1
Ethylbenzene	U	0.38	1.0	ug/l		8260B	09/03/14	1
Xylenes, Total	U	1.1	3.0	ug/l		8260B	09/03/14	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	09/03/14	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	09/03/14	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	09/03/14	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	09/03/14	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	09/03/14	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	09/03/14	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	09/03/14	1
Dibromofluoromethane	106.			% Rec.		8260B	09/03/14	1
4-Bromofluorobenzene	93.4			% Rec.		8260B	09/03/14	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	580	22.	100	ug/l		8015	09/01/14	1
C28-C40 Oil Range	210	12.	100	ug/l		8015	09/01/14	1
Surrogate Recovery								
o-Terphenyl	80.4			% Rec.		8015	09/01/14	1

U = ND (Not Detected)
 RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
 MDL = Minimum Detection Limit = LOD = TRRP SDL

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REPORT OF ANALYSIS

David Reinsma
 Trinity Source Group - Santa Cruz,
 119 Encinal Street
 Santa Cruz, CA 95060

September 08, 2014

Date Received : August 29, 2014
 Description : ABF HVOC Delineation
 Sample ID : SB-3
 Collected By : EC/SD
 Collection Date : 08/26/14 09:30

ESC Sample # : L719046-03
 Site ID : T000000582S
 Project # : 154.008.003

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	09/05/14	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	09/05/14	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	09/05/14	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	09/05/14	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	09/05/14	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	09/05/14	1
Surrogate Recovery								
Toluene-d8	99.0			% Rec.		8260B	09/05/14	1
Dibromofluoromethane	98.9			% Rec.		8260B	09/05/14	1
4-Bromofluorobenzene	98.8			% Rec.		8260B	09/05/14	1

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REPORT OF ANALYSIS

David Reinsma
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 119 Encinal Street
 Santa Cruz, CA 95060

September 08, 2014

Date Received : August 29, 2014
 Description : ABF HVOC Delineation

ESC Sample # : L719046-04

Sample ID : SB-4

Site ID : T000000582S

Collected By : EC/SD
 Collection Date : 08/26/14 12:00

Project # : 154.008.003

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
TPH (GC/MS) Low Fraction	810	110	500	ug/l		8260B	09/04/14	1
Benzene	0.61	0.33	1.0	ug/l	J	8260B	09/04/14	1
Toluene	0.79	0.78	5.0	ug/l	J	8260B	09/04/14	1
Ethylbenzene	3.8	0.38	1.0	ug/l		8260B	09/04/14	1
Xylenes, Total	9.1	1.1	3.0	ug/l		8260B	09/04/14	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	09/04/14	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	09/04/14	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	09/04/14	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	09/04/14	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	09/04/14	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	09/04/14	1
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	09/04/14	1
Dibromofluoromethane	106.			% Rec.		8260B	09/04/14	1
4-Bromofluorobenzene	115.			% Rec.		8260B	09/04/14	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	6200	22.	100	ug/l		8015	09/02/14	1
C28-C40 Oil Range	1200	12.	100	ug/l		8015	09/02/14	1
Surrogate Recovery								
o-Terphenyl	91.3			% Rec.		8015	09/02/14	1

U = ND (Not Detected)

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

MDL = Minimum Detection Limit = LOD = TRRP SDL

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REPORT OF ANALYSIS

David Reinsma
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September 08, 2014

Date Received : August 29, 2014
 Description : ABF HVOC Delineation

ESC Sample # : L719046-05

Sample ID : SB-5

Site ID : T000000582S

Collected By : EC/SD
 Collection Date : 08/26/14 12:30

Project # : 154.008.003

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	09/05/14	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	09/05/14	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	09/05/14	1
Tetrachloroethene	U	0.37	1.0	ug/l		8260B	09/05/14	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	09/05/14	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	09/05/14	1
Surrogate Recovery								
Toluene-d8	107.				% Rec.	8260B	09/05/14	1
Dibromofluoromethane	96.7				% Rec.	8260B	09/05/14	1
4-Bromofluorobenzene	101.				% Rec.	8260B	09/05/14	1

U = ND (Not Detected)

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

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REPORT OF ANALYSIS

David Reinsma
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September 08, 2014

Date Received : August 29, 2014
 Description : ABF HVOC Delineation
 Sample ID : SB-6
 Collected By : EC/SD
 Collection Date : 08/26/14 13:40

ESC Sample # : L719046-06
 Site ID : T000000582S
 Project # : 154.008.003

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
TPH (GC/MS) Low Fraction	U	110	500	ug/l		8260B	09/04/14	1
Benzene	U	0.33	1.0	ug/l		8260B	09/04/14	1
Toluene	U	0.78	5.0	ug/l	J5J3	8260B	09/04/14	1
Ethylbenzene	U	0.38	1.0	ug/l	J5	8260B	09/04/14	1
Xylenes, Total	U	1.1	3.0	ug/l	J3J5	8260B	09/04/14	1
1,1-Dichloroethene	U	0.40	1.0	ug/l	J5J3	8260B	09/04/14	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	09/04/14	1
Tetrachloroethene	U	0.37	1.0	ug/l	J5	8260B	09/04/14	1
Trichloroethene	U	0.40	1.0	ug/l	J3	8260B	09/04/14	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	09/04/14	1
Carbon tetrachloride	U	0.38	1.0	ug/l	J3	8260B	09/04/14	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	09/04/14	1
Dibromofluoromethane	106.			% Rec.		8260B	09/04/14	1
4-Bromofluorobenzene	95.6			% Rec.		8260B	09/04/14	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	170	22.	100	ug/l		8015	09/02/14	1
C28-C40 Oil Range	110	12.	100	ug/l		8015	09/02/14	1
Surrogate Recovery								
o-Terphenyl	91.2			% Rec.		8015	09/02/14	1

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 RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L719046-04	WG741187	SAMP	Benzene	R2985367	J
	WG741187	SAMP	Toluene	R2985367	J
L719046-06	WG741187	SAMP	Toluene	R2985367	J5J3
	WG741187	SAMP	Ethylbenzene	R2985367	J5
	WG741187	SAMP	Xylenes, Total	R2985367	J3J5
	WG741187	SAMP	1,1-Dichloroethene	R2985367	J5J3
	WG741187	SAMP	Tetrachloroethene	R2985367	J5
	WG741187	SAMP	Trichloroethene	R2985367	J3
	WG741187	SAMP	Carbon tetrachloride	R2985367	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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David Reinsma
Trinity Source Group - Santa Cruz, CA
119 Encinal Street
Santa Cruz, CA 95060

Report Summary

Tuesday September 09, 2014

Report Number: L719039

Samples Received: 08/29/14

Client Project: 154.008.003

Description:

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
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REPORT OF ANALYSIS

David Reinsma
 Trinity Source Group - Santa Cruz,
 119 Encinal Street
 Santa Cruz, CA 95060

September 09, 2014

Date Received : August 29, 2014
 Description :
 Sample ID : SB-1 3.5FT
 Collected By : EC/SD
 Collection Date : 08/26/14 14:15

ESC Sample # : L719039-01
 Site ID : T0000005825
 Project # : 154.008.003

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	88.3	0.0333		%		2540 G-2	09/04/14	1
Volatile Organics								
TPH (GC/MS) Low Fraction	U	0.18	0.57	mg/kg		8260B	09/05/14	1
Benzene	0.00051	0.00027	0.0011	mg/kg	J	8260B	09/05/14	1
Toluene	U	0.00043	0.0057	mg/kg		8260B	09/05/14	1
Ethylbenzene	U	0.00030	0.0011	mg/kg		8260B	09/05/14	1
Xylenes, Total	U	0.00070	0.0034	mg/kg		8260B	09/05/14	1
1,1-Dichloroethene	U	0.00030	0.0011	mg/kg		8260B	09/05/14	1
cis-1,2-Dichloroethene	U	0.00024	0.0011	mg/kg		8260B	09/05/14	1
Tetrachloroethene	U	0.00028	0.0011	mg/kg		8260B	09/05/14	1
Trichloroethene	U	0.00028	0.0011	mg/kg		8260B	09/05/14	1
Vinyl chloride	U	0.00029	0.0011	mg/kg		8260B	09/05/14	1
Carbon tetrachloride	U	0.00033	0.0011	mg/kg		8260B	09/05/14	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	09/05/14	1
Dibromofluoromethane	111.			% Rec.		8260B	09/05/14	1
4-Bromofluorobenzene	92.6			% Rec.		8260B	09/05/14	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	U	1.6	4.5	mg/kg		8015	09/07/14	1
C28-C40 Oil Range	0.69	0.27	4.5	mg/kg	J	8015	09/07/14	1
Surrogate Recovery								
o-Terphenyl	59.2			% Rec.		8015	09/07/14	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

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REPORT OF ANALYSIS

David Reinsma
 Trinity Source Group - Santa Cruz,
 119 Encinal Street
 Santa Cruz, CA 95060

September 09, 2014

Date Received : August 29, 2014
 Description :
 Sample ID : SB-2 3.5FT
 Collected By : EC/SD
 Collection Date : 08/26/14 10:28

ESC Sample # : L719039-02
 Site ID : T0000005825
 Project # : 154.008.003

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	86.7	0.0333		%		2540 G-2	09/04/14	1
Volatile Organics								
TPH (GC/MS) Low Fraction	U	0.18	0.58	mg/kg		8260B	09/05/14	1
Benzene	U	0.00027	0.0012	mg/kg		8260B	09/05/14	1
Toluene	U	0.00043	0.0058	mg/kg		8260B	09/05/14	1
Ethylbenzene	U	0.00030	0.0012	mg/kg		8260B	09/05/14	1
Xylenes, Total	U	0.00070	0.0035	mg/kg		8260B	09/05/14	1
1,1-Dichloroethene	U	0.00030	0.0012	mg/kg		8260B	09/05/14	1
cis-1,2-Dichloroethene	U	0.00024	0.0012	mg/kg		8260B	09/05/14	1
Tetrachloroethene	U	0.00028	0.0012	mg/kg		8260B	09/05/14	1
Trichloroethene	U	0.00028	0.0012	mg/kg		8260B	09/05/14	1
Vinyl chloride	U	0.00029	0.0012	mg/kg		8260B	09/05/14	1
Carbon tetrachloride	U	0.00033	0.0012	mg/kg		8260B	09/05/14	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	09/05/14	1
Dibromofluoromethane	115.			% Rec.		8260B	09/05/14	1
4-Bromofluorobenzene	90.1			% Rec.		8260B	09/05/14	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	U	16.	46.	mg/kg		8015	09/07/14	10
C28-C40 Oil Range	20.	2.7	46.	mg/kg	J	8015	09/07/14	10
Surrogate Recovery								
o-Terphenyl	61.2			% Rec.		8015	09/07/14	10

Results listed are dry weight basis.

U = ND (Not Detected)

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

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REPORT OF ANALYSIS

David Reinsma
 Trinity Source Group - Santa Cruz,
 119 Encinal Street
 Santa Cruz, CA 95060

September 09, 2014

Date Received : August 29, 2014
 Description :

ESC Sample # : L719039-03

Sample ID : SB-3 3.5FT

Site ID : T0000005825

Collected By : EC/SD
 Collection Date : 08/26/14 09:15

Project # : 154.008.003

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	83.0	0.0333		%		2540 G-2	09/04/14	1
Volatile Organics								
TPH (GC/MS) Low Fraction	U	0.18	0.60	mg/kg		8260B	09/08/14	1
Benzene	U	0.00027	0.0012	mg/kg		8260B	09/05/14	1
Toluene	0.00066	0.00043	0.0060	mg/kg	J	8260B	09/05/14	1
Ethylbenzene	U	0.00030	0.0012	mg/kg		8260B	09/05/14	1
Xylenes, Total	U	0.00070	0.0036	mg/kg		8260B	09/05/14	1
1,1-Dichloroethene	U	0.00030	0.0012	mg/kg		8260B	09/05/14	1
cis-1,2-Dichloroethene	U	0.00024	0.0012	mg/kg		8260B	09/05/14	1
Tetrachloroethene	U	0.00028	0.0012	mg/kg		8260B	09/05/14	1
Trichloroethene	U	0.00028	0.0012	mg/kg		8260B	09/05/14	1
Vinyl chloride	U	0.00029	0.0012	mg/kg		8260B	09/05/14	1
Carbon tetrachloride	U	0.00033	0.0012	mg/kg		8260B	09/05/14	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	09/05/14	1
Dibromofluoromethane	115.			% Rec.		8260B	09/05/14	1
4-Bromofluorobenzene	82.5			% Rec.		8260B	09/05/14	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	3.2	1.6	4.8	mg/kg	J	8015	09/09/14	1
C28-C40 Oil Range	5.3	0.27	4.8	mg/kg		8015	09/09/14	1
Surrogate Recovery								
o-Terphenyl	47.4			% Rec.	J2	8015	09/09/14	1

Results listed are dry weight basis.

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

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L719039-03 (DRORLA) - low surrogate confirmed



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REPORT OF ANALYSIS

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 Santa Cruz, CA 95060

September 09, 2014

Date Received : August 29, 2014
 Description :
 Sample ID : SB-4 3.5FT
 Collected By : EC/SD
 Collection Date : 08/26/14 11:30

ESC Sample # : L719039-04
 Site ID : T0000005825
 Project # : 154.008.003

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	87.9	0.0333		%		2540 G-2	09/04/14	1
Volatile Organics								
TPH (GC/MS) Low Fraction	U	0.18	0.57	mg/kg		8260B	09/08/14	1
Benzene	U	0.00027	0.0011	mg/kg		8260B	09/05/14	1
Toluene	U	0.00043	0.0057	mg/kg		8260B	09/05/14	1
Ethylbenzene	U	0.00030	0.0011	mg/kg		8260B	09/05/14	1
Xylenes, Total	U	0.00070	0.0034	mg/kg		8260B	09/05/14	1
1,1-Dichloroethene	U	0.00030	0.0011	mg/kg		8260B	09/05/14	1
cis-1,2-Dichloroethene	U	0.00024	0.0011	mg/kg		8260B	09/05/14	1
Tetrachloroethene	U	0.00028	0.0011	mg/kg		8260B	09/05/14	1
Trichloroethene	U	0.00028	0.0011	mg/kg		8260B	09/05/14	1
Vinyl chloride	U	0.00029	0.0011	mg/kg		8260B	09/05/14	1
Carbon tetrachloride	U	0.00033	0.0011	mg/kg		8260B	09/05/14	1
Surrogate Recovery								
Toluene-d8	106.			% Rec.		8260B	09/05/14	1
Dibromofluoromethane	114.			% Rec.		8260B	09/05/14	1
4-Bromofluorobenzene	85.7			% Rec.		8260B	09/05/14	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	U	16.	46.	mg/kg		8015	09/07/14	10
C28-C40 Oil Range	5.6	2.7	46.	mg/kg	J	8015	09/07/14	10
Surrogate Recovery								
o-Terphenyl	69.4			% Rec.		8015	09/07/14	10

Results listed are dry weight basis.

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 Mt. Juliet, TN 37122
 (615) 758-5858
 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

David Reinsma
 Trinity Source Group - Santa Cruz,
 119 Encinal Street
 Santa Cruz, CA 95060

September 09, 2014

Date Received : August 29, 2014
 Description :
 Sample ID : SB-5 3.5FT
 Collected By : EC/SD
 Collection Date : 08/26/14 12:25

ESC Sample # : L719039-05
 Site ID : T0000005825
 Project # : 154.008.003

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	88.6	0.0333		%		2540 G-2	09/04/14	1
Volatile Organics								
TPH (GC/MS) Low Fraction	U	0.18	0.56	mg/kg		8260B	09/08/14	1
Benzene	U	0.00027	0.0011	mg/kg		8260B	09/05/14	1
Toluene	U	0.00043	0.0056	mg/kg		8260B	09/05/14	1
Ethylbenzene	U	0.00030	0.0011	mg/kg		8260B	09/05/14	1
Xylenes, Total	U	0.00070	0.0034	mg/kg		8260B	09/05/14	1
1,1-Dichloroethene	U	0.00030	0.0011	mg/kg		8260B	09/05/14	1
cis-1,2-Dichloroethene	U	0.00024	0.0011	mg/kg		8260B	09/05/14	1
Tetrachloroethene	U	0.00028	0.0011	mg/kg		8260B	09/05/14	1
Trichloroethene	U	0.00028	0.0011	mg/kg		8260B	09/05/14	1
Vinyl chloride	U	0.00029	0.0011	mg/kg		8260B	09/05/14	1
Carbon tetrachloride	U	0.00033	0.0011	mg/kg		8260B	09/05/14	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	09/05/14	1
Dibromofluoromethane	114.			% Rec.		8260B	09/05/14	1
4-Bromofluorobenzene	90.4			% Rec.		8260B	09/05/14	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	U	16.	45.	mg/kg		8015	09/07/14	10
C28-C40 Oil Range	87.	2.7	45.	mg/kg		8015	09/07/14	10
Surrogate Recovery								
o-Terphenyl	61.7			% Rec.		8015	09/07/14	10

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

David Reinsma
 Trinity Source Group - Santa Cruz,
 119 Encinal Street
 Santa Cruz, CA 95060

September 09, 2014

Date Received : August 29, 2014
 Description :

ESC Sample # : L719039-06

Sample ID : SB-6 3.5FT

Site ID : T0000005825

Collected By : EC/SD
 Collection Date : 08/26/14 13:38

Project # : 154.008.003

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	88.5	0.0333		%		2540 G-2	09/04/14	1
Volatile Organics								
TPH (GC/MS) Low Fraction	U	0.18	0.56	mg/kg		8260B	09/08/14	1
Benzene	0.00042	0.00027	0.0011	mg/kg	J	8260B	09/05/14	1
Toluene	U	0.00043	0.0056	mg/kg		8260B	09/05/14	1
Ethylbenzene	U	0.00030	0.0011	mg/kg		8260B	09/05/14	1
Xylenes, Total	U	0.00070	0.0034	mg/kg		8260B	09/05/14	1
1,1-Dichloroethene	U	0.00030	0.0011	mg/kg		8260B	09/05/14	1
cis-1,2-Dichloroethene	U	0.00024	0.0011	mg/kg		8260B	09/05/14	1
Tetrachloroethene	U	0.00028	0.0011	mg/kg		8260B	09/05/14	1
Trichloroethene	U	0.00028	0.0011	mg/kg		8260B	09/05/14	1
Vinyl chloride	U	0.00029	0.0011	mg/kg		8260B	09/05/14	1
Carbon tetrachloride	U	0.00033	0.0011	mg/kg		8260B	09/05/14	1
Surrogate Recovery								
Toluene-d8	104.			% Rec.		8260B	09/05/14	1
Dibromofluoromethane	114.			% Rec.		8260B	09/05/14	1
4-Bromofluorobenzene	83.3			% Rec.		8260B	09/05/14	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	U	1.6	4.5	mg/kg		8015	09/08/14	1
C28-C40 Oil Range	3.6	0.27	4.5	mg/kg	J	8015	09/08/14	1
Surrogate Recovery								
o-Terphenyl	50.1			% Rec.		8015	09/08/14	1

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REPORT OF ANALYSIS

David Reinsma
 Trinity Source Group - Santa Cruz,
 119 Encinal Street
 Santa Cruz, CA 95060

September 09, 2014

Date Received : August 29, 2014
 Description :
 Sample ID : IDW DRUM-SAMPLE
 Collected By : EC/SD
 Collection Date : 08/26/14 15:30

ESC Sample # : L719039-07
 Site ID : T0000005825
 Project # : 154.008.003

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	78.6	0.0333		%		2540 G-2	09/04/14	1
Mercury	0.14	0.0028	0.025	mg/kg		7471	09/03/14	1
Antimony	2.9	0.75	2.5	mg/kg		6010B	09/05/14	1
Arsenic	7.1	0.65	2.5	mg/kg		6010B	09/05/14	1
Barium	130	0.17	0.64	mg/kg		6010B	09/05/14	1
Beryllium	0.62	0.070	0.25	mg/kg		6010B	09/05/14	1
Cadmium	1.8	0.070	0.64	mg/kg		6010B	09/05/14	1
Chromium	85.	0.14	1.3	mg/kg		6010B	09/05/14	1
Cobalt	13.	0.23	1.3	mg/kg		6010B	09/05/14	1
Copper	37.	0.53	2.5	mg/kg		6010B	09/05/14	1
Lead	13.	0.19	0.64	mg/kg		6010B	09/05/14	1
Molybdenum	U	0.16	0.64	mg/kg		6010B	09/05/14	1
Nickel	79.	0.49	2.5	mg/kg		6010B	09/05/14	1
Selenium	U	0.74	2.5	mg/kg		6010B	09/05/14	1
Silver	U	0.28	1.3	mg/kg		6010B	09/05/14	1
Thallium	U	0.65	2.5	mg/kg		6010B	09/05/14	1
Vanadium	64.	0.24	2.5	mg/kg		6010B	09/05/14	1
Zinc	65.	0.59	6.4	mg/kg		6010B	09/05/14	1
Volatile Organics								
TPH (GC/MS) Low Fraction	U	0.18	0.64	mg/kg	J6	8260B	09/08/14	1
Benzene	U	0.00027	0.0013	mg/kg		8260B	09/05/14	1
Toluene	U	0.00043	0.0064	mg/kg		8260B	09/05/14	1
Ethylbenzene	U	0.00030	0.0013	mg/kg		8260B	09/05/14	1
Xylenes, Total	U	0.00070	0.0038	mg/kg		8260B	09/05/14	1
1,1-Dichloroethene	U	0.00030	0.0013	mg/kg		8260B	09/05/14	1
cis-1,2-Dichloroethene	U	0.00024	0.0013	mg/kg		8260B	09/05/14	1
Tetrachloroethene	U	0.00028	0.0013	mg/kg		8260B	09/05/14	1
Trichloroethene	U	0.00028	0.0013	mg/kg		8260B	09/05/14	1
Vinyl chloride	U	0.00029	0.0013	mg/kg		8260B	09/05/14	1
Carbon tetrachloride	U	0.00033	0.0013	mg/kg		8260B	09/05/14	1
Surrogate Recovery								
Toluene-d8	105.			% Rec.		8260B	09/05/14	1
Dibromofluoromethane	101.			% Rec.		8260B	09/05/14	1
4-Bromofluorobenzene	91.6			% Rec.		8260B	09/05/14	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	U	1.6	5.1	mg/kg		8015	09/07/14	1
C28-C40 Oil Range	4.3	0.27	5.1	mg/kg	J	8015	09/07/14	1
Surrogate Recovery								
o-Terphenyl	55.6			% Rec.		8015	09/07/14	1

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L719039-01	WG740986	SAMP	C28-C40 Oil Range	R2986657	J
	WG740344	SAMP	Benzene	R2985807	J
L719039-02	WG740986	SAMP	C28-C40 Oil Range	R2986657	J
L719039-03	WG741731	SAMP	C10-C28 Diesel Range	R2987058	J
	WG741731	SAMP	o-Terphenyl	R2987058	J2
	WG740344	SAMP	Toluene	R2985807	J
L719039-04	WG740986	SAMP	C28-C40 Oil Range	R2986657	J
L719039-06	WG740986	SAMP	C28-C40 Oil Range	R2986657	J
	WG740344	SAMP	Benzene	R2985807	J
L719039-07	WG740986	SAMP	C28-C40 Oil Range	R2986657	J
	WG741721	SAMP	TPH (GC/MS) Low Fraction	R2986821	J6

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Company Name/Address:
Trinity Source Group, Inc.
119 Encinal St.
Santa Cruz, CA 95060

Billing Information:
Same as company info

Report to:
David Reinsma

Email To:
Labstrinity@gmail.com

Project Description:
ABF HVOC Delineation

City/State Collected:
Oakland, CA

Phone: **831.426.5600**
 Fax: **831.426.5602**

Client Project #
154.008.003

Lab Project #

Collected by (print):
EC/SD

Site/Facility ID # / Client ID:
T0000005825

P.O. #

Collected by (signature):
[Signature]
 Immediately Packed on Ice N ___ Y **X**

Rush? (Lab MUST Be Notified)
 ___ Same Day200%
 ___ Next Day100%
 ___ Two Day50%
 ___ Three Day25%

Date Results Needed
 Email? ___ No ___ Yes
 FAX? ___ No ___ Yes
 No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
SB-1@3'1/2'	Grab	Soil	3'1/2'	8/26/14	1415	4
SB-2@3'1/2'	↓	↓	↓	↓	1028	↓
SB-3@3'1/2'	↓	↓	↓	↓	0915	↓
SB-4@3'1/2'	↓	↓	↓	↓	1130	↓
SB-5@3'1/2' 3'1/2'	↓	↓	↓	↓	1225	↓
SB-6@3'1/2'	↓	↓	↓	↓	1338	↓
IDW Drum-Sample	Comp	Soil		8/26/14	1530	1

Analysis / Container / Preservative		Chain of Custody
TCE, PCE, cis-1,2-DCE, 1,1-DCE- USEPA 8260		Page <u> </u> of <u> </u>
Vinyl Chloride, Carbon Tetrachloride-USEPA 8260		ESC L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859
DRO-8015 RLA w/si gel cleanup		L# L719039
GRO-8260 1 BTEX-8260		B200
(Am 17 metals CCA)		Acctnum: Template: Prelogin: TSR: PB: Shipped Via:
		Rem./Contaminant
		Sample # (lab only)
		-01
		-02
		-03
		-04
		-05
		-06
		-07

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other

Remarks: **Please only report requested analytes**

pH _____ Temp _____
 Flow _____ Other _____

Relinquished by: (Signature)
[Signature]
 Relinquished by: (Signature)
[Signature]
 Relinquished by: (Signature)
[Signature]

Date: **8/28/14**
 Time: **1545**

Received by: (Signature)
5781 0507 3295
 Received by: (Signature)
[Signature]
 Received for lab by: (Signature)
[Signature]

Samples returned via: UPS
 FedEx Courier _____
 Temp: **24** °C Bottles Received: **25**
 Date: **8/29/14** Time: **0900**

Hold #
 Condition: (lab use only)
OK TDI
 COC Seal Intact: ___ Y ___ N ___ NA
 pH Checked: NCF:

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GEOTRACKER ESI

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SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	HVOC Delineation Report
<u>Report Type:</u>	Soil and Water Investigation Report
<u>Facility Global ID:</u>	T1000005825
<u>Facility Name:</u>	ABF FREIGHT MAINTENANCE SHOP
<u>File Name:</u>	L71904_6EDF.zip
<u>Organization Name:</u>	Trinity Source Group, Inc.
<u>Username:</u>	TRINITY SOURCE GROUP
<u>IP Address:</u>	63.249.96.11
<u>Submittal Date/Time:</u>	9/18/2014 1:31:35 PM
<u>Confirmation Number:</u>	4757193863

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<u>Report Title:</u>	HVOC Delineation Report
<u>Report Type:</u>	Soil and Water Investigation Report
<u>Facility Global ID:</u>	T1000005825
<u>Facility Name:</u>	ABF FREIGHT MAINTENANCE SHOP
<u>File Name:</u>	I719039_EDF (2).zip
<u>Organization Name:</u>	Trinity Source Group, Inc.
<u>Username:</u>	TRINITY SOURCE GROUP
<u>IP Address:</u>	63.249.96.11
<u>Submittal Date/Time:</u>	9/18/2014 2:05:21 PM
<u>Confirmation Number:</u>	8495703995

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