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Alameda County
Environmental Health

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22 March 2010
File No. 36885

Alameda County Health Agency-Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Attention: Ms. Donna Drogos, P.E.
Supervising Hazardous Materials Specialist

Subject: Summary of Work Performed to Date and Additional Site Characterization Work
Plan
U.S. General Services Administration
Federal Building 2C
620 Central Avenue
Alameda, California

Dear Ms. Drogos:

Haley & Aldrich, Inc. (Haley & Aldrich) is submitting this summary of work performed to date and work plan to further evaluate the hydraulic oil leak associated with the elevator piping at Federal Building 2C located at 620 Central Avenue in Alameda, California (Site, Figure 1) on behalf of ENV America Incorporated (ENV America). The work performed to date included excavating and identifying the location of the pipeline leak, collecting soil samples for chemical analysis, replacing both the supply and return hydraulic lines with new pipelines within a secondary containment pipeline, and backfilling the excavation. This work was performed in accordance with the work plan submitted to Alameda County Health Agency-Department of Environmental Health (ACEH) dated 23 September 2009 and approved by the ACEH. The objective of the additional Site characterization is to evaluate the lateral and vertical extent of hydraulic oil in soil and groundwater.

On September 14, 2009 the U.S. General Services Administration (GSA) reported a hydraulic fluid leak to the Office of Emergency Services after having an unanticipated release of the elevator hydraulic fluid at the Site. Based on further investigation it was found that approximately 50 gallons of hydraulic fluid that was stored within the hydraulic fluid storage tank for the elevator had leaked. Tests were performed by others to evaluate which portion of the elevator piping was leaking. By using a combination of pressure testing and isolating various sections of the hydraulic line, it was concluded that the underground hydraulic line located beneath the sidewalks and street was leaking and not the elevator piston.

On January 16 and 17, 2010, ENV Environmental International of Benicia, California (EEI) excavated a trench to expose the hydraulic fluid lines for the elevator. The trench was excavated from the elevator control room to the elevator pit, such that the curb and gutter as well as the elevator lobby could remain intact. The trench was excavated to approximately 3.5 feet below ground surface (bgs) in the deepest location.

Soil samples were collected on January 17, 2009 by ENV America. Soil samples were collected using a clean slide hammer from immediately below the pipeline to six inches below the pipeline at 10-foot intervals starting outside the elevator lobby and going toward the control room (Figure 2). A soil sample was also collected below the pipeline at the location of the hydraulic fluid leak. Samples were collected in brass tubes capped with Teflon[®] sheets and plastic end caps. Samples were uniquely labeled, placed in sealed plastic bags, and stored in an ice-chilled cooler. Samples were shipped under chain-of-custody to TestAmerica Inc. of Pleasanton, California, a state of California certified laboratory. The samples were analyzed for:

- Total petroleum hydrocarbons (TPH) quantified as hydraulic oil (TPHho) by Environmental Protection Agency (EPA) Method 8015B; and
- Polychlorinated biphenyls (PCBs) by EPA Method 8082.

Results of the soil sampling indicate that two soil samples, PL-3 (approximately five feet south of the source) and PL-7 (source location), have concentrations of TPHho at 12,000 milligrams per kilogram (mg/kg). The remaining samples, collected at 10-foot intervals and located below the pipelines within the trench, did not exhibit concentrations of TPHho or PCBs above the laboratory detection limit. Analytical laboratory reports and chain-of-custody documentation are included as Attachment A.

In addition to the work described above, Empire Elevator, a state of California licensed elevator company, removed the old supply and return hydraulic lines for the elevator. These lines were replaced with new pipelines contained within a secondary containment pipeline. The supply line is a two-inch diameter schedule 80 black steel pipe, the return line is ½-inch diameter copper line, and the secondary containment piping consists of six-inch diameter schedule 80 polyvinyl chloride.

Haley & Aldrich on behalf of ENV America is recommending additional investigation to evaluate the lateral and vertical extent of TPHho in soil and groundwater. The scope of work below describes the next phase of work to be performed.

Scope of Work for the Proposed Additional Investigation

Pre Field Activities

- A boring permit will be obtained from ACEH;
- The boring locations will be marked in white paint and Underground Service Alert (USA) will be notified;
- A private utility locator will screen each boring location for potential underground utilities; and
- The site-specific health and safety plan will be updated for this work.

Field Work

Up to ten boring locations will be drilled using either direct push or a hollow stem auger drill rig operated by a California C-57 licensed drilling company (Figure 3). Borings will be continuously cored to observe lithologic conditions. The recovered soil will be logged by a field geologist using the visual-manual procedures of ASTM Standard D-2488-09a for guidance, which is based on the Unified Soil

Classification System, and using Munsell Soil Color Chart designations, under the direction of a California Professional Geologist. Down hole equipment will be decontaminated prior to starting and between boring locations using either a steam cleaner/pressure washer or by washing the equipment with laboratory grade detergent and water followed by a water rinse.

Soil samples will be collected from below the pipeline at a depth of approximately five feet bgs and above the soil groundwater interface in clean brass, steel, or butyrate liners capped with Teflon[®] sheets and plastic end caps.

Water samples will be collected by installing a temporary well point through the drive casing. The drive casing will be advanced approximately five to 10 feet below groundwater (maximum depth 15 feet bgs). Once at depth a two-inch polyvinyl chloride casing and screen will be placed inside the drive casing. The drive casing will be retracted to expose the screen interval to the water bearing zone. A new disposable bailer will be used to collect the water sample. The sample will be decanted from the new disposable bailer into laboratory supplied sample containers.

Soil and water samples will be uniquely labeled, placed in sealed plastic bags, and stored in ice-chilled coolers until delivered to a California certified analytical laboratory under chain-of-custody. The soil and water samples will be analyzed for:

- TPHho by EPA Method 8015B.

After soil and groundwater sampling is complete the well casing will be used as a tremie pipe to grout the boring from total depth to ground surface (if applicable) using Type I/II neat cement mixed in a ratio of one 94-pound bag of cement to approximately five to seven gallons of water. Drill cuttings and equipment wash water will be placed in labeled containers and stored on the Site pending analytical results.

For disposal purposes, it is assumed that one four-point composite sample will be collected from the soil bin/drums and analyzed for:

- TPH quantified as gasoline, benzene, toluene, ethylbenzene, and xylenes in accordance with EPA method 8260B;
- TPH quantified as diesel, motor oil, and hydraulic fluid in accordance with EPA method 8015M; and
- LUFT 5 metals in accordance with EPA method 6010B.

Prior to leaving the Site at the end of the work day, the contractor will secure the area and will leave the area clean and free of debris.

The results of soil and groundwater samples will be compared with applicable standards to assess whether soil and/or groundwater remediation is required.

Documentation

During field activities Haley & Aldrich will direct all subcontractors, take detailed field notes and photo document the work. Haley & Aldrich will prepare a report documenting work performed and the results for your review.

Project Schedule

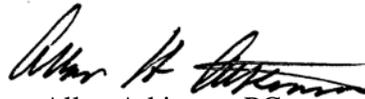
We are prepared to commence work on this project upon receiving authorization to proceed from Alameda County. This will include scheduling and subcontracting, performing the field work, and submitting a report summarizing the results of the investigation.

Please do not hesitate to call if you have any questions or comments.

Sincerely yours,
HALEY & ALDRICH, INC.



Charles Rome
Geologist



Allan Atkinson, PG
Senior Geologist



Enclosures:

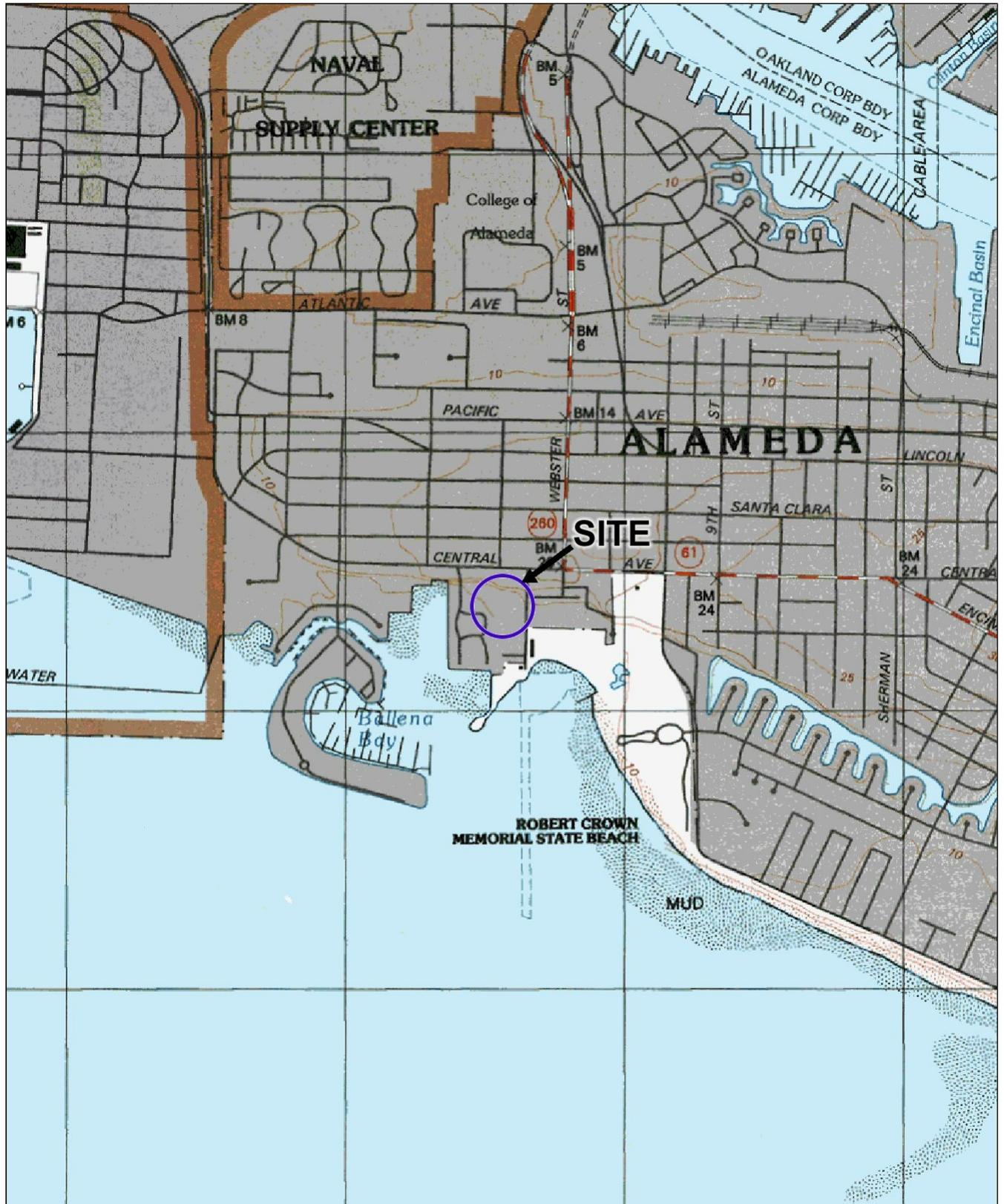
Figure 1 – Project Locus Map

Figure 2 – Sample Locations

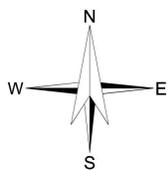
Figure 3 – Proposed Boring Locations

Appendix A – Analytical Laboratory Report and Chain-of-Custody Documentation

FIGURES



SITE COORDINATES: 37°46'13"N 122°16'46"W



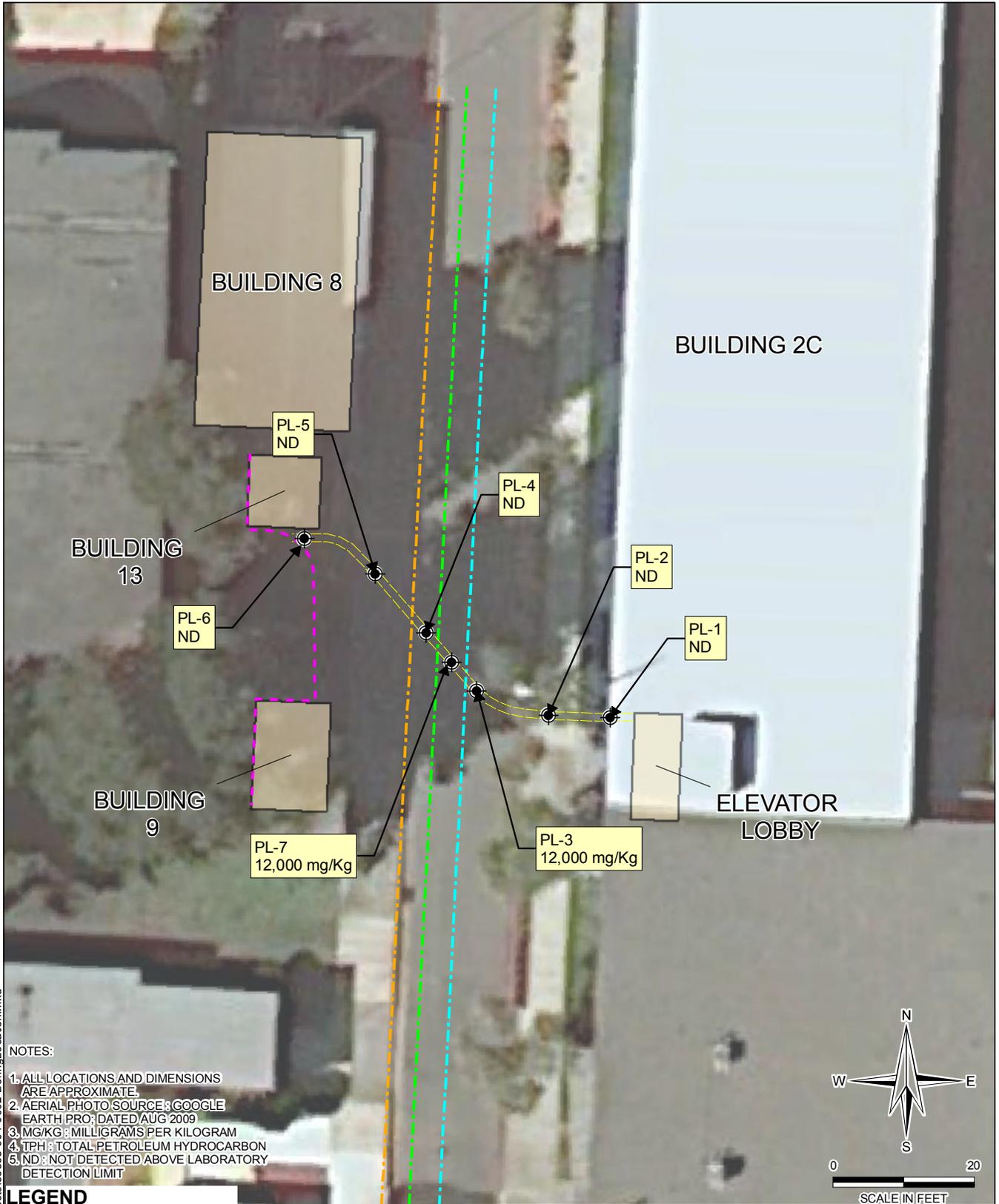
U.S.G.S. QUADRANGLE: OAKLAND WEST, CA

HALEY & ALDRICH FEDERAL BUILDING 2C
620 CENTRAL AVENUE
ALAMEDA, CALIFORNIA

PROJECT LOCUS

SCALE: 1:24,000
MARCH 2010

FIGURE 1



NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL PHOTO SOURCE: GOOGLE EARTH PRO; DATED AUG 2009
3. MG/KG: MILLIGRAMS PER KILOGRAM
4. TPH: TOTAL PETROLEUM HYDROCARBON
5. ND: NOT DETECTED ABOVE LABORATORY DETECTION LIMIT

LEGEND

- SAMPLE LOCATION
 - WATER
 - SANITARY SEWER
 - STORM DRAIN
 - ELECTRIC
 - HYDRAULIC FLUID PIPELINES/
ELECTRICAL CONDUIT TRENCH
- SAMPLE LOCATION
- TPH CONCENTRATION

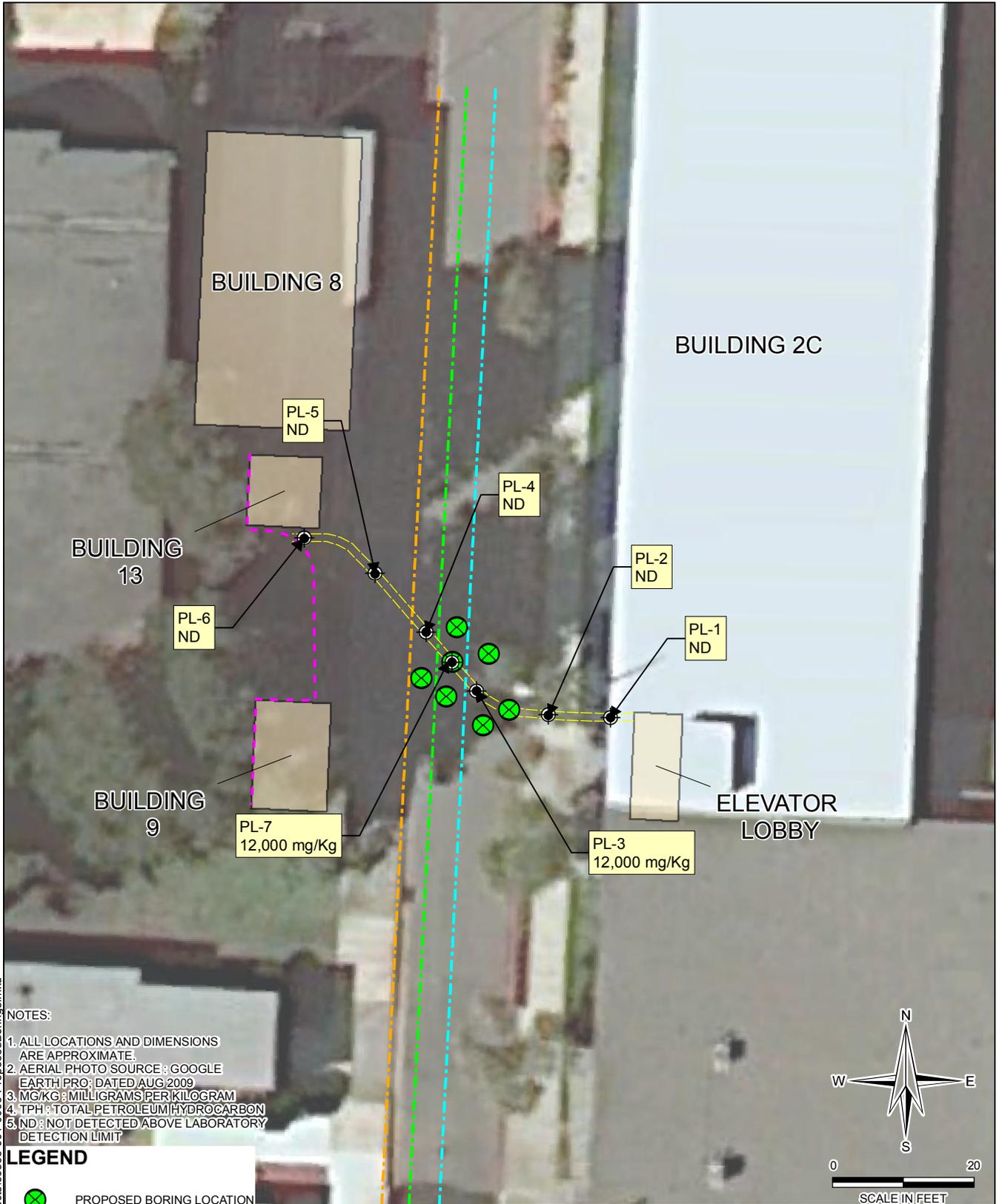
HALEY & ALDRICH FEDERAL BUILDING 2C
620 CENTRAL AVENUE
ALAMEDA, CALIFORNIA

SAMPLE LOCATIONS

SCALE: AS SHOWN
MARCH 2010

FIGURE 2

G:\36835 - Alameda\GIS\MapProjects\36835-001-0002-BoringLocation.mxd



G:\368635 - Alameda\Global\GIS\MapProjects\368635-001-0003-ProposedBorings.mxd

- NOTES:**
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
 2. AERIAL PHOTO SOURCE: GOOGLE EARTH PRO; DATED AUG 2009
 3. MG/KG: MILLIGRAMS PER KILOGRAM
 4. TPH: TOTAL PETROLEUM HYDROCARBON
 5. ND: NOT DETECTED ABOVE LABORATORY DETECTION LIMIT

LEGEND

- PROPOSED BORING LOCATION
 - SAMPLE LOCATION
 - WATER
 - SANITARY SEWER
 - STORM DRAIN
 - ELECTRIC
 - HYDRAULIC FLUID PIPELINES/
ELECTRICAL CONDUIT TRENCH
- SAMPLE LOCATION
- PL-7
12,000 mg/Kg
- TPH
CONCENTRATION

HALEY & ALDRICH FEDERAL BUILDING 2C
620 CENTRAL AVENUE
ALAMEDA, CALIFORNIA

PROPOSED BORING LOCATIONS

SCALE: AS SHOWN
MARCH 2010

FIGURE 3

APPENDIX A

Analytical Laboratory Report and Chain-of-Custody Documentation

ANALYTICAL REPORT

Job Number: 720-25299-1

Job Description: GSA Alameda

For:

ENV America, Incorporated
244 California St., Ste 500
San Francisco, CA 94111

Attention: Mr. Charlie Rome

Surinder Sidhu

Approved for release.
Surinder Sidhu
Customer Service Manager
1/19/2010 5:10 PM

Designee for
Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
01/19/2010

CA ELAP Certification # 2496

The Chain(s) of Custody are included and are an integral part of this report.

The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.

A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

TestAmerica Laboratories, Inc.

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Job Narrative
720-25299-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC Semi VOA

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: PL-3 (720-25299-3), PL-7 (720-25299-7).

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside the upper control limit: PL-6 (720-25299-6). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 64464 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ENV America, Incorporated

Job Number: 720-25299-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-25299-3	PL-3				
TPH-Hydraulic Oil Range (C19-C36)		12000	5000	mg/Kg	8015B
720-25299-7	PL-7				
TPH-Hydraulic Oil Range (C19-C36)		12000	4900	mg/Kg	8015B

METHOD SUMMARY

Client: ENV America, Incorporated

Job Number: 720-25299-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL SF	SW846 8082	
Ultrasonic Extraction	TAL SF		SW846 3550B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ENV America, Incorporated

Job Number: 720-25299-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-25299-1	PL-1	Solid	01/17/2010 0905	01/18/2010 1657
720-25299-2	PL-2	Solid	01/17/2010 0910	01/18/2010 1657
720-25299-3	PL-3	Solid	01/17/2010 0925	01/18/2010 1657
720-25299-4	PL-4	Solid	01/17/2010 0930	01/18/2010 1657
720-25299-5	PL-5	Solid	01/17/2010 0938	01/18/2010 1657
720-25299-6	PL-6	Solid	01/17/2010 0942	01/18/2010 1657
720-25299-7	PL-7	Solid	01/17/2010 0950	01/18/2010 1657

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-1

Lab Sample ID: 720-25299-1

Date Sampled: 01/17/2010 0905

Client Matrix: Solid

Date Received: 01/18/2010 1657

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-64471	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-64463	Initial Weight/Volume:	30.24 g
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	01/19/2010 1148		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1758		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
TPH-Hydraulic Oil Range (C19-C36)		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	101		31 - 114

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-2

Lab Sample ID: 720-25299-2

Date Sampled: 01/17/2010 0910

Client Matrix: Solid

Date Received: 01/18/2010 1657

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-64472	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-64463	Initial Weight/Volume:	30.21 g
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	01/19/2010 1432		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1758		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
TPH-Hydraulic Oil Range (C19-C36)		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	103		31 - 114

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-3

Lab Sample ID: 720-25299-3

Date Sampled: 01/17/2010 0925

Client Matrix: Solid

Date Received: 01/18/2010 1657

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-64472	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-64463	Initial Weight/Volume:	30.04 g
Dilution:	100		Final Weight/Volume:	5 mL
Date Analyzed:	01/19/2010 1148		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1758		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
TPH-Hydraulic Oil Range (C19-C36)		12000		5000
Surrogate	%Rec	Qualifier	Acceptance Limits	
p-Terphenyl	0	D	31 - 114	

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-4

Lab Sample ID: 720-25299-4

Date Sampled: 01/17/2010 0930

Client Matrix: Solid

Date Received: 01/18/2010 1657

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-64472	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-64463	Initial Weight/Volume:	30.27 g
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	01/19/2010 1341		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1758		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
TPH-Hydraulic Oil Range (C19-C36)		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	90		31 - 114

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-5

Lab Sample ID: 720-25299-5

Date Sampled: 01/17/2010 0938

Client Matrix: Solid

Date Received: 01/18/2010 1657

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-64472	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-64463	Initial Weight/Volume:	30.47 g
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	01/19/2010 1254		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1758		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
TPH-Hydraulic Oil Range (C19-C36)		ND		49
Surrogate		%Rec	Qualifier	Acceptance Limits
p-Terphenyl		90		31 - 114

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-6

Lab Sample ID: 720-25299-6

Date Sampled: 01/17/2010 0942

Client Matrix: Solid

Date Received: 01/18/2010 1657

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-64472	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-64463	Initial Weight/Volume:	30.38 g
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	01/19/2010 1316		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1758		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
TPH-Hydraulic Oil Range (C19-C36)		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	115	X	31 - 114

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-7

Lab Sample ID: 720-25299-7

Date Sampled: 01/17/2010 0950

Client Matrix: Solid

Date Received: 01/18/2010 1657

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-64472	Instrument ID:	CHDRO6
Preparation:	3550B	Prep Batch: 720-64463	Initial Weight/Volume:	30.31 g
Dilution:	100		Final Weight/Volume:	5 mL
Date Analyzed:	01/19/2010 1126		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1758		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
TPH-Hydraulic Oil Range (C19-C36)		12000		4900
Surrogate	%Rec	Qualifier	Acceptance Limits	
p-Terphenyl	0	D	31 - 114	

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-1

Lab Sample ID: 720-25299-1

Date Sampled: 01/17/2010 0905

Client Matrix: Solid

Date Received: 01/18/2010 1657

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-64476	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-64464	Initial Weight/Volume:	30.00 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	01/19/2010 1215		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1803		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	91		32 - 112
DCB Decachlorobiphenyl	83		2 - 122

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-2

Lab Sample ID: 720-25299-2

Date Sampled: 01/17/2010 0910

Client Matrix: Solid

Date Received: 01/18/2010 1657

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-64476	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-64464	Initial Weight/Volume:	30.33 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	01/19/2010 1237		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1803		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		49
PCB-1221		ND		49
PCB-1232		ND		49
PCB-1242		ND		49
PCB-1248		ND		49
PCB-1254		ND		49
PCB-1260		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	84		32 - 112
DCB Decachlorobiphenyl	83		2 - 122

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-3

Lab Sample ID: 720-25299-3

Date Sampled: 01/17/2010 0925

Client Matrix: Solid

Date Received: 01/18/2010 1657

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-64476	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-64464	Initial Weight/Volume:	30.16 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	01/19/2010 1259		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1803		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	86		32 - 112
DCB Decachlorobiphenyl	61		2 - 122

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-4

Lab Sample ID: 720-25299-4

Date Sampled: 01/17/2010 0930

Client Matrix: Solid

Date Received: 01/18/2010 1657

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-64476	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-64464	Initial Weight/Volume:	30.20 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	01/19/2010 1321		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1803		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		32 - 112
DCB Decachlorobiphenyl	81		2 - 122

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-5

Lab Sample ID: 720-25299-5

Date Sampled: 01/17/2010 0938

Client Matrix: Solid

Date Received: 01/18/2010 1657

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-64476	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-64464	Initial Weight/Volume:	30.18 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	01/19/2010 1343		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1803		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	94		32 - 112
DCB Decachlorobiphenyl	86		2 - 122

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-6

Lab Sample ID: 720-25299-6

Date Sampled: 01/17/2010 0942

Client Matrix: Solid

Date Received: 01/18/2010 1657

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-64476	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-64464	Initial Weight/Volume:	29.99 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	01/19/2010 1405		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1803		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		50
PCB-1221		ND		50
PCB-1232		ND		50
PCB-1242		ND		50
PCB-1248		ND		50
PCB-1254		ND		50
PCB-1260		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	88		32 - 112
DCB Decachlorobiphenyl	86		2 - 122

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-25299-1

Client Sample ID: PL-7

Lab Sample ID: 720-25299-7

Date Sampled: 01/17/2010 0950

Client Matrix: Solid

Date Received: 01/18/2010 1657

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-64476	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-64464	Initial Weight/Volume:	30.42 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	01/19/2010 1427		Injection Volume:	1 uL
Date Prepared:	01/18/2010 1803		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		49
PCB-1221		ND		49
PCB-1232		ND		49
PCB-1242		ND		49
PCB-1248		ND		49
PCB-1254		ND		49
PCB-1260		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	97		32 - 112
DCB Decachlorobiphenyl	66		2 - 122

DATA REPORTING QUALIFIERS

Client: ENV America, Incorporated

Job Number: 720-25299-1

Lab Section	Qualifier	Description
GC Semi VOA		
	F	MS or MSD exceeds the control limits
	X	Surrogate exceeds the control limits
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-25299-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC Semi VOA					
Prep Batch: 720-64463					
LCS 720-64463/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-64463/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-64463/1-A	Method Blank	T	Solid	3550B	
720-25299-1	PL-1	T	Solid	3550B	
720-25299-1MS	Matrix Spike	T	Solid	3550B	
720-25299-1MSD	Matrix Spike Duplicate	T	Solid	3550B	
720-25299-2	PL-2	T	Solid	3550B	
720-25299-3	PL-3	T	Solid	3550B	
720-25299-4	PL-4	T	Solid	3550B	
720-25299-5	PL-5	T	Solid	3550B	
720-25299-6	PL-6	T	Solid	3550B	
720-25299-7	PL-7	T	Solid	3550B	
Prep Batch: 720-64464					
LCS 720-64464/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-64464/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-64464/1-A	Method Blank	T	Solid	3550B	
720-25299-1	PL-1	T	Solid	3550B	
720-25299-2	PL-2	T	Solid	3550B	
720-25299-3	PL-3	T	Solid	3550B	
720-25299-4	PL-4	T	Solid	3550B	
720-25299-5	PL-5	T	Solid	3550B	
720-25299-6	PL-6	T	Solid	3550B	
720-25299-7	PL-7	T	Solid	3550B	
720-25299-7MS	Matrix Spike	T	Solid	3550B	
720-25299-7MSD	Matrix Spike Duplicate	T	Solid	3550B	
Analysis Batch:720-64471					
LCS 720-64463/2-A	Lab Control Sample	T	Solid	8015B	720-64463
LCSD 720-64463/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-64463
720-25299-1	PL-1	T	Solid	8015B	720-64463
720-25299-1MS	Matrix Spike	T	Solid	8015B	720-64463
720-25299-1MSD	Matrix Spike Duplicate	T	Solid	8015B	720-64463
Analysis Batch:720-64472					
MB 720-64463/1-A	Method Blank	T	Solid	8015B	720-64463
720-25299-2	PL-2	T	Solid	8015B	720-64463
720-25299-3	PL-3	T	Solid	8015B	720-64463
720-25299-4	PL-4	T	Solid	8015B	720-64463
720-25299-5	PL-5	T	Solid	8015B	720-64463
720-25299-6	PL-6	T	Solid	8015B	720-64463
720-25299-7	PL-7	T	Solid	8015B	720-64463

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-25299-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:720-64476					
LCS 720-64464/2-A	Lab Control Sample	T	Solid	8082	720-64464
LCSD 720-64464/3-A	Lab Control Sample Duplicate	T	Solid	8082	720-64464
MB 720-64464/1-A	Method Blank	T	Solid	8082	720-64464
720-25299-1	PL-1	T	Solid	8082	720-64464
720-25299-2	PL-2	T	Solid	8082	720-64464
720-25299-3	PL-3	T	Solid	8082	720-64464
720-25299-4	PL-4	T	Solid	8082	720-64464
720-25299-5	PL-5	T	Solid	8082	720-64464
720-25299-6	PL-6	T	Solid	8082	720-64464
720-25299-7	PL-7	T	Solid	8082	720-64464
720-25299-7MS	Matrix Spike	T	Solid	8082	720-64464
720-25299-7MSD	Matrix Spike Duplicate	T	Solid	8082	720-64464

Report Basis

T = Total

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-25299-1

Method Blank - Batch: 720-64463

Lab Sample ID: MB 720-64463/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 01/19/2010 1232
 Date Prepared: 01/18/2010 1758

Analysis Batch: 720-64472
 Prep Batch: 720-64463
 Units: mg/Kg

**Method: 8015B
 Preparation: 3550B**

Instrument ID: HP GC 7890
 Lab File ID: FID2000014.D
 Initial Weight/Volume: 30.14 g
 Final Weight/Volume: 5 mL
 Injection Volume: 1 uL
 Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		1.0
TPH-Hydraulic Oil Range (C19-C36)	ND		50

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	102	31 - 114

**Lab Control Sample/
 Lab Control Sample Duplicate Recovery Report - Batch: 720-64463**

LCS Lab Sample ID: LCS 720-64463/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 01/19/2010 1041
 Date Prepared: 01/18/2010 1758

Analysis Batch: 720-64471
 Prep Batch: 720-64463
 Units: mg/Kg

**Method: 8015B
 Preparation: 3550B**

Instrument ID: HP GC 7890
 Lab File ID: FID1000009.D
 Initial Weight/Volume: 30.39 g
 Final Weight/Volume: 5 mL
 Injection Volume: 1 uL
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-64463/3-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 01/19/2010 1104
 Date Prepared: 01/18/2010 1758

Analysis Batch: 720-64471
 Prep Batch: 720-64463
 Units: mg/Kg

Instrument ID: HP GC 7890
 Lab File ID: FID1000010.D
 Initial Weight/Volume: 30.46 g
 Final Weight/Volume: 5 mL
 Injection Volume: 1 uL
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	91	93	49 - 115	2	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	92	96	31 - 114

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-25299-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-64463

Method: 8015B

Preparation: 3550B

MS Lab Sample ID: 720-25299-1
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 01/19/2010 1232
 Date Prepared: 01/18/2010 1758

Analysis Batch: 720-64471
 Prep Batch: 720-64463

Instrument ID: HP GC 7890
 Lab File ID: FID1000014.D
 Initial Weight/Volume: 30.25 g
 Final Weight/Volume: 5 mL
 Injection Volume: 1 uL
 Column ID: PRIMARY

MSD Lab Sample ID: 720-25299-1
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 01/19/2010 1254
 Date Prepared: 01/18/2010 1758

Analysis Batch: 720-64471
 Prep Batch: 720-64463

Instrument ID: HP GC 7890
 Lab File ID: FID1000015.D
 Initial Weight/Volume: 30.11 g
 Final Weight/Volume: 5 mL
 Injection Volume: 1 uL
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Diesel Range Organics [C10-C28]	93	95	50 - 130	2	30		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
p-Terphenyl		95	97			31 - 114	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-25299-1

Method Blank - Batch: 720-64464

Lab Sample ID: MB 720-64464/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/19/2010 1109
Date Prepared: 01/18/2010 1803

Analysis Batch: 720-64476
Prep Batch: 720-64464
Units: ug/Kg

Method: 8082 Preparation: 3550B

Instrument ID: Agilent PCB 2
Lab File ID: m0119007.d
Initial Weight/Volume: 30.12 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	ND		50
PCB-1221	ND		50
PCB-1232	ND		50
PCB-1242	ND		50
PCB-1248	ND		50
PCB-1254	ND		50
PCB-1260	ND		50
Surrogate	% Rec	Acceptance Limits	
Tetrachloro-m-xylene	89	32 - 112	
DCB Decachlorobiphenyl	80	2 - 122	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-25299-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-64464**

**Method: 8082
Preparation: 3550B**

LCS Lab Sample ID: LCS 720-64464/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/19/2010 1131
Date Prepared: 01/18/2010 1803

Analysis Batch: 720-64476
Prep Batch: 720-64464
Units: ug/Kg

Instrument ID: Agilent PCB 2
Lab File ID: m0119008.d
Initial Weight/Volume: 30.37 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-64464/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/19/2010 1153
Date Prepared: 01/18/2010 1803

Analysis Batch: 720-64476
Prep Batch: 720-64464
Units: ug/Kg

Instrument ID: Agilent PCB 2
Lab File ID: m0119009.d
Initial Weight/Volume: 30.43 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
PCB-1016	91	92	69 - 120	1	20		
PCB-1260	86	91	73 - 114	6	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Tetrachloro-m-xylene	88		91		32 - 112		
DCB Decachlorobiphenyl	78		83		2 - 122		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-25299-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-64464

Method: 8082

Preparation: 3550B

MS Lab Sample ID: 720-25299-7
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 01/19/2010 1449
 Date Prepared: 01/18/2010 1803

Analysis Batch: 720-64476
 Prep Batch: 720-64464

Instrument ID: Agilent PCB 2
 Lab File ID: m0119017.d
 Initial Weight/Volume: 30.11 g
 Final Weight/Volume: 10 mL
 Injection Volume: 1 uL
 Column ID: PRIMARY

MSD Lab Sample ID: 720-25299-7
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 01/19/2010 1512
 Date Prepared: 01/18/2010 1803

Analysis Batch: 720-64476
 Prep Batch: 720-64464

Instrument ID: Agilent PCB 2
 Lab File ID: m0119018.d
 Initial Weight/Volume: 30.08 g
 Final Weight/Volume: 10 mL
 Injection Volume: 1 uL
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
PCB-1016	90	88	69 - 120	2	20		
PCB-1260	53	54	73 - 114	1	20	F	F
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
Tetrachloro-m-xylene	91		92		32 - 112		
DCB Decachlorobiphenyl	66		67		2 - 122		

Calculations are performed before rounding to avoid round-off errors in calculated results.

720-25299

Report To **Analysis Request**

Attn: Charles Rome
 Company: ENV America
 Address: 234 California St Ste 500 SF, CA
 Phone: 510-304-9240 Email: cronec@envamerica.com
 Bill To: Acct Sampled By: CFL
 Attn: P. Daniels Phone: (707) 751-3817

Sample ID	Date	Time	Mat nk	Preserv
PL-1	1/17/10	0905	S	N
PL-2	↓	0910	↓	↓
PL-3	↓	0925	↓	↓
PL-4	↓	0930	↓	↓
PL-5	↓	0938	↓	↓
PL-6	↓	0942	↓	↓
PL-7	↓	0950	↓	↓

<input type="checkbox"/> TPH EPA 8260B	<input type="checkbox"/> Gas w/ 8260B	<input type="checkbox"/> BTEX	<input type="checkbox"/> MTBE
<input type="checkbox"/> TEPH EPA 8015M*	<input type="checkbox"/> Silica Gel	<input type="checkbox"/> Diesel	<input type="checkbox"/> Motor Oil
<input type="checkbox"/> EPA 8260B	<input type="checkbox"/> Gas	<input type="checkbox"/> BTEX	<input type="checkbox"/> 5 Oxygenates
<input type="checkbox"/> (HVOCs) EPA 8021 by 8260B	<input type="checkbox"/> Volatile Organics GC/MS (VOCs)	<input type="checkbox"/> EPA 8260B	<input type="checkbox"/> 624
<input type="checkbox"/> Semivolatiles GC/MS	<input type="checkbox"/> EPA 8270	<input type="checkbox"/> 625	<input type="checkbox"/> Oil and Grease
<input type="checkbox"/> EPA 8081	<input type="checkbox"/> EPA 8082	<input type="checkbox"/> EPA 8082	<input type="checkbox"/> Pesticides
<input type="checkbox"/> EPA 8081	<input type="checkbox"/> EPA 8082	<input type="checkbox"/> EPA 8082	<input checked="" type="checkbox"/> PCBs
<input type="checkbox"/> PNAs by 8270	<input type="checkbox"/> 8810	<input type="checkbox"/> CAM17 Metals	<input type="checkbox"/> EPA 6010/7470/7471
<input type="checkbox"/> Metals: Lead	<input type="checkbox"/> LUFT	<input type="checkbox"/> RCRA	<input type="checkbox"/> Other
<input type="checkbox"/> Low Level Metals by EPA 200.0/6020 (ICP-MS)	<input type="checkbox"/> WET (STLC)	<input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium
<input type="checkbox"/> pH (24h hold time for H ₂ O)	<input type="checkbox"/> Spec. Cond.	<input type="checkbox"/> Alkalinity	<input type="checkbox"/> TDS
<input type="checkbox"/> Anions: Cl	<input type="checkbox"/> SO ₄	<input type="checkbox"/> NO ₃	<input type="checkbox"/> F
<input type="checkbox"/> Br	<input type="checkbox"/> NO ₂	<input type="checkbox"/> PO ₄	<input type="checkbox"/> 2x6" brass lines
<input type="checkbox"/> TPH Hydraulic Oil			

RUSH

Project Info
 Project Name: GSA Alameda
 Project#: GSA0902
 PO#: _____
 Credit Card#: _____

Sample Receipt
 # of Containers: _____
 Head Space: _____
 Temp: 3.8°C
 Conforms to record: _____
 Other: 24 hour
 Report: Routine Level 3 Level 4 EDD State Tank Fund EDF
 Special Instructions / Comments: Global ID _____

1) Relinquished by:
Charles Rome 1600
 Signature Time
Charles Rome 1/18/2010
 Printed Name Date
ENV America
 Company

1) Received by:
Fultcher 1606
 Signature Time
Fultcher 1/18/10
 Printed Name Date
TASF
 Company

2) Relinquished by:
Fultcher 1657
 Signature Time
Fultcher 1/18/10
 Printed Name Date
TASF
 Company

2) Received by:
Joan Mulley 1657
 Signature Time
Mulley 01-18-10
 Printed Name Date
TestAmerica
 Company

3) Relinquished by:
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

3) Received by:
 Signature _____ Time _____
 Printed Name _____ Date _____
 Company _____

Login Sample Receipt Check List

Client: ENV America, Incorporated

Job Number: 720-25299-1

Login Number: 25299

List Source: TestAmerica San Francisco

Creator: Mullen, Joan

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	