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2:13 pm, Dec 29, 2008
Alameda County
Environmental Health

December 8, 2008

Mr. Peter Armstrong
EAH Housing Inc.
2169 East Francisco Boulevard, Suite B
San Rafael, California 94901

RE: Phase II Environmental Site Assessment (ESA) Report/Limited Soil Characterization
3761 Park Boulevard Way, Oakland, California
Project Number 6783-013.01

Dear Mr. Armstrong:

Please find the enclosed two copies of the Phase II ESA/ Limited Soil Characterization Report for 3761 Park Boulevard Way, Oakland, California. The goal of this report was to identify is constituents of concern related to a former underground storage tank (UST) are present in Site soils at 3761 Park Boulevard Way, Oakland, California.

If you have any questions regarding the report, please contact me at (510) 638-8400, ext. 110 or email me at jsiudyla@accenv.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Julia Siudyla". The signature is fluid and somewhat abstract, with several loops and overlapping strokes.

Julia Siudyla
Project Geologist

Enclosures



Phase II Environmental Site Assessment/ Limited Soil Characterization

**3761 Park Boulevard Way
Oakland, California**

ACC Project Number: 6783-001.01

Prepared for:

Mr. Peter Armstrong
EAH Housing Inc.
2169 East Francisco Boulevard, Suite B
San Rafael, California 94901

December 8, 2008

Prepared by:

Julia Siudyla
Project Geologist

Reviewed by:

Misty C. Kaltreider, PG 7016, CEG 2466
Engineering Geologist

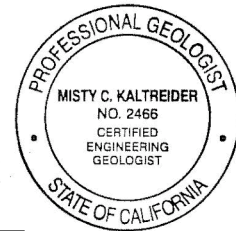


TABLE OF CONTENTS

	Page
1.0 INTRODUCTION	1
2.0 BACKGROUND	1
3.0 FIELD PROCEDURES	1
4.0 FINDINGS	2
4.1 Subsurface Conditions	2
4.2 Analytical Results	3
5.0 DISCUSSION	4
6.0 CONCLUSIONS	4
7.0 RECOMMENDATIONS	5
8.0 LIMITATIONS	5

TABLES

1 – Soil Sample Analytical Summary Table

FIGURES

1 – Location Map

2 – Site Map

APPENDICES

1 – Analytical Results and Chain of Custody Record

2 – Soil Boring Logs

**Phase II Environmental Site Assessment/ Limited Soil Characterization
3761 Park Boulevard Way
Oakland, California**

1.0 INTRODUCTION

At the request of the EAH Housing, Inc (ACC), has prepared this Phase II ESA/Limited Soil Characterization Report summarizing subsurface investigation work performed at 3761 Park Boulevard Way, Oakland, California (Site). The primary goals of this investigation were to determine if constituents of concern (petroleum hydrocarbons) are present in soil related to a former underground storage tank (UST) at the Site.

2.0 BACKGROUND

The site is located 3761 Park Boulevard Way in Oakland, California. The Site is comprised of an approximately 0.6-acre parcel located on the northeast side of Park Boulevard Way. The subject property is developed with a five story, u-shaped building comprising 70,000-square feet of multi-tenant apartments. The building consists of 84 one-bedroom apartments, and several common areas and two passenger elevators. The building has been improved with carpet, vinyl floor tiles, ceramic tile, acoustical ceiling tiles, baseboard, and gypsum wallboard. The building also has a ground level parking garage located below the southwestern portion of the building.

The subject property is known to be a historical gas station. The historical resources utilized in the Phase I ESA (EDR City Directories and the historical Sanborn maps) indicated that the subject property was occupied by a former gas station (Ritchey's Union Service Station and Earl's Union 76) from approximately 1950-1970. No information pertaining to the former gas station on the subject property was obtained from the City of Oakland Fire Department, the California EPA-Regional Water Quality Control Board, the California EPA-Department of Toxic Substance Control, Region 2 or Alameda County Environmental Health. The presence of a former gas station on the subject property is interpreted to be a recognized environmental condition. Further investigation was deemed warranted.

3.0 FIELD PROCEDURES

Soil Borings

On December 2, 2008, ACC's Staff Geologist, Julia Siudyla, performed four soil borings. The subsurface materials in the soil borings were identified and classified. Soil borings were continuously cored using a pneumatic Geoprobe® sampling tool. ACC utilized a four-foot long, stainless steel Geoprobe® macro-core sampling tool equipped with 2-inch inside-diameter clear acetate liners. The sampling probe and rods were pre-cleaned prior to use and between sample drives by washing them

with a trisodium phosphate and potable water solution and two potable water rinses. Upon removal from the sampler, each recovered soil core was visually inspected. Subsurface materials in the soil borings were identified and classified during drilling operations according to the Unified Soil Classification System (USCS).

Four exploratory soil borings were advanced at select, representative locations. Approximate soil boring locations are illustrated on Figure 2. Each soil boring was continuously cored to facilitate logging and screening encountered soils and obtain soil sample intervals for potential laboratory analysis. Two soil samples were collected from soil boring SB-1, SB-2, and SB-4. No soil samples were collected from soil boring SB-3; refusal was encountered at 2.5 feet bgs in this soil boring. Each soil sample was labeled, and stored in a pre-chilled, insulated container to be transported following chain of custody protocol to TestAmerica (formerly STL San Francisco), a state-certified analytical laboratory. Three composite soil samples were analyzed for TPHg, benzene, toluene, ethylbenzene, xylenes and MTBE via EPA Method 8260B and TEPH as diesel and motor oil via EPA Method 8015M.

Following drilling and sample collection, each soil boring location was abandoned with neat cement to the surface (2 to 3 inches). The surface of each boring location was completed with concrete to grade.

Prior to conducting all invasive work, ACC contract Underground Service Alert, underground utility locator to mark all utilities at the subject property.

4.0 FINDINGS

4.1 Subsurface Conditions

Soil borings SB-1, SB-2 and SB-3 were all conducted in the area reported (by Mr. Mortimer Howard, current property owner) to formerly contain the UST. This area is located in the southwestern corner of the subject building in the parking garage. This area of the parking garage is paved with concrete.

Soil boring SB-1 was conducted in what was identified to be the central area of the former tank location. This soil boring was conducted to a maximum depth of 24 feet below ground surface (bgs). This was mostly comprised of clay with sand and highly plastic clay. Visual (staining and discoloration) and olfactory evidence (gasoline odor) of contamination was evident in this soil boring from approximately 3 to 8 feet bgs. The maximum photo ionization detector (PID) reading was 6469 ppm at approximately 7 feet bgs. Two soil samples were collected from this soil boring, SB-1 (6.5- 7.0) and SB-1 (17 -18). These two soil samples were composited in the laboratory prior to analysis. Groundwater was not encountered in this soil boring and thus was not sampled.

Soil boring SB-2 was conducted in what was identified to be the northeastern side of the former tank location. This soil boring was conducted to a maximum depth of 16 feet below ground surface (bgs). This was mostly comprised of clay with sand and highly plastic clay. Visual (discoloration) and olfactory evidence (gasoline odor) of contamination was evident in this soil boring from approximately 3

to 16 feet bgs. The maximum photo ionization detector (PID) reading was 196 ppm at approximately 6 feet bgs. Two soil samples were collected from this soil boring, SB-2 (5- 6) and SB-2 (9.5 -10.5). These two soil samples were composited in the laboratory prior to analysis. Groundwater was not encountered in this soil boring and thus was not sampled.

Soil boring SB-3 was conducted in what was identified to be the southwestern side of the former tank location. This soil boring was conducted to a maximum depth of 2.5 feet below ground surface (bgs). This was mostly comprised of clay with sand. No samples were collected from this soil boring due to encountering refusal at 2.5 feet bgs repeatedly. Groundwater was not encountered in this soil boring and thus was not sampled.

Soil Boring SB-5 was conducted in the vicinity of the former dispenser island/pump location (as identified by Mr. Mortimer Howard). This soil boring was conducted to a maximum depth of 16 feet below ground surface (bgs). This was mostly comprised of clay with sand and highly plastic clay. Visual (discoloration) and olfactory evidence (gasoline odor) of contamination was evident in this soil boring from approximately 3 to 16 feet bgs. The maximum photo ionization detector (PID) reading was 1614 ppm at approximately 12 feet bgs. Two soil samples were collected from this soil boring, SB-4 (4- 5) and SB4 (10-12). These two soil samples were composited in the laboratory prior to analysis. Groundwater was not encountered in this soil boring and thus was not sampled.

4.2 Analytical Results

- In the composite soil sample SB-1 (SB-1 (6.5-7.0) and SB-1 (17-18)) TPH as gasoline was detected at 260 mg/kg, Benzene was detected at < 0.98 mg/kg and ethyl benzene was detected at 4.7 mg/kg above their respective environmental screening levels (ESLs) for residential land use.
- In the composite soil sample SB-2 (SB-2 (5-6) and SB-2 (9.5-10.5)) TPH as gasoline was detected at 280 mg/kg and Benzene was detected at < 0.98 mg/kg above their respective ESLs for residential land use.
- No samples were collected from SB-3.
- In the composite soil sample SB-4 (SB-4 (4-5) and SB-4 (10-12)) TEPH as motor oil was detected at 550 mg/kg above its ESL.

A Soil Sample Analytical Summary Table is proved as Table 1.

5.0 DISCUSSION

The primary goals of this investigation were to determine if constituents of concern (petroleum hydrocarbons) are present in soil related to a former underground storage tank (UST) at the Site. ACC advanced four exploratory soil borings in select locations relative to probable sources, such as the former UST locations and the dispenser islands/pump locations.

Logging continuously cored soil borings confirmed that low permeable clays are the predominant soil type to approximately 24 feet bgs. No groundwater was encountered during this investigation. Soil samples were logged and screened with a PID and representative samples were submitted for analysis.

TPHg-impacted soil was primarily encountered in the area identified to as the former tank location. TEPH as motor oil impacted soil was encountered in the area identified to as the former location of the dispenser island/pump location.

6.0 CONCLUSIONS

Based on sample analytical results, and field observations, ACC has concluded the following:

- Reported TPHg, TEPH as motor oil, benzene and ethylbenzene concentrations in soil are indicative of a typical service station release scenario with impacts in soil beneath the product dispensers and under or adjacent to the UST basin;
- Soils at the Site are primarily fine-grained clays with low estimated permeability which limit or prevent potential vertical, downward migration of dissolved-phase petroleum hydrocarbons into groundwater, and also minimize potential vertical, upward migration of vapor-phase petroleum hydrocarbons in soil gas;
- Additional site characterization is warranted to determine if impacted groundwater is present at the Site and to determine if impacted groundwater is migrating off site;
- Information summarized in this report does should be forwarded by the current property owner to Alameda County Environmental Health and an unauthorized release from should be completed.

7.0 RECOMMENDATIONS

Based on conclusions of this investigation, ACC recommends the following:

- Re-submitting the soil samples with concentrations that exceed ESLs as separate samples to evaluate the vertical extent and amount of impact.

- Re-mobilize at the site to collect groundwater samples to determine if impacted groundwater is present at the Site and to determine if impacted groundwater is migrating off site.

8.0 LIMITATIONS

The service performed by ACC has been conducted in a manner consistent with the levels of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

The conclusions presented in this report are professional opinions based on the indicated data described in this report and applicable regulations and guidelines currently in place. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study.

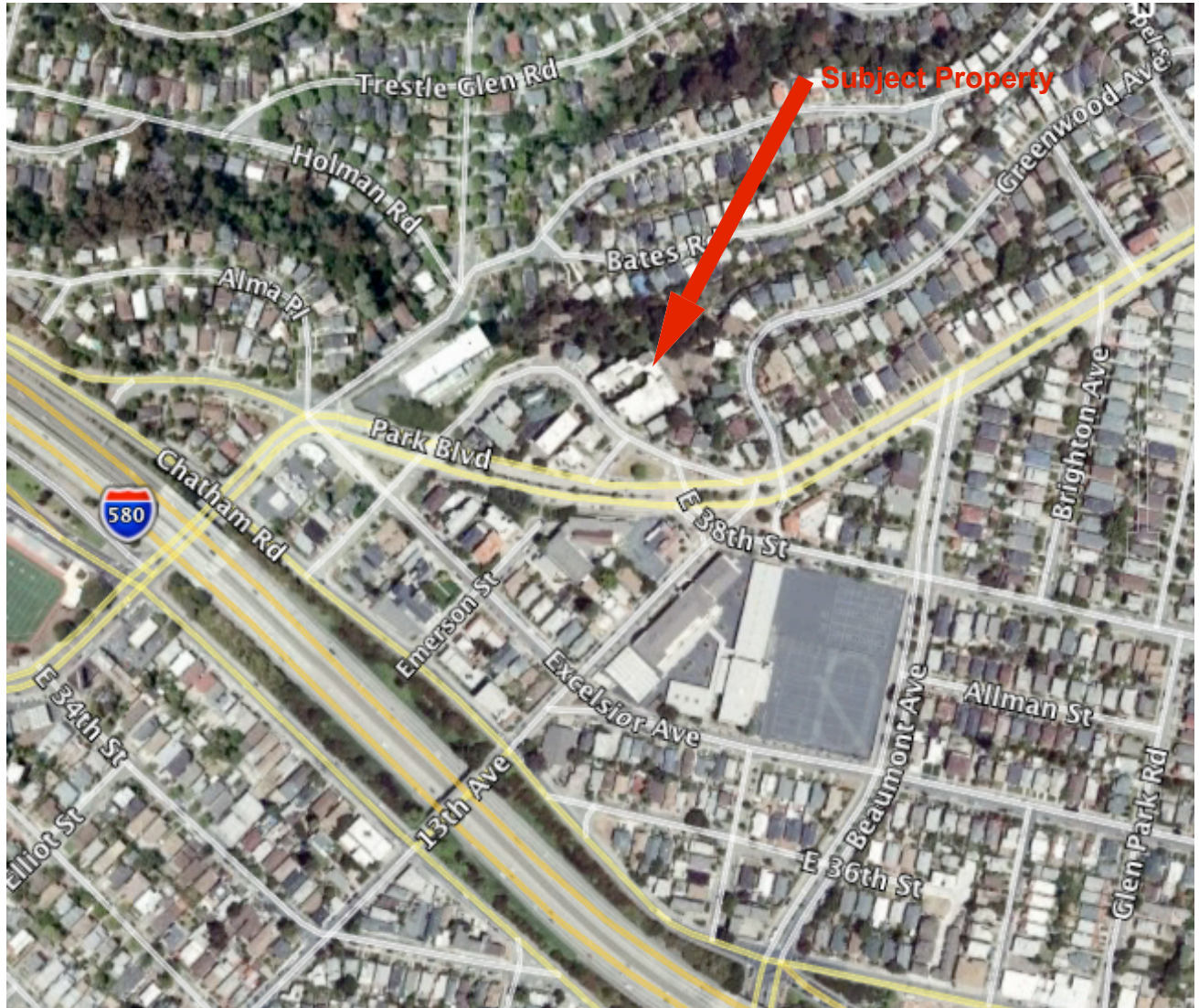
ACC has included analytical results from a state-certified laboratory, which performs analyses according to procedures suggested by the U.S. Environmental Protection Agency and the State of California. ACC is not responsible for laboratory errors in procedure or result reporting.

TABLE 1
Soil Sample Analytical Summary Table (12-2-08)
3761 Park Boulevard Way
ACC Project Number: 6783-013.01

Boring ID & Depth (feet bgs)	Sampling Date	Matrix	Constituents & Concentrations							
			TPHg	TEPH-d	TEPH-mo	MTBE	Benzene	Toluene	Ethylbenzene	Xylene
SB-1 - (6.5-7.0) & (17-18)	2-Dec-08	Soil	260	34	55	< 0.98	< 0.98	< 0.98	4.7	8.5
SB-2 - (5-6) & (9.5-10.5)	2-Dec-08	Soil	280	90	340	< 0.98	< 0.98	< 0.98	< 0.98	< 2.0
SB-4 - (4-5) & (10-12)	2-Dec-08	Soil	0.33	73	550	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
**ESLs - Residential (unrestricted site usage)	Shallow Soil (≤3 m)	Soil (mg/kg)	100	100	370	8.4	0.12	9.3	2.3	11
	Deep Soil (>3 m)	Soil (mg/kg)	180	180	5000	8.4	2	9.3	4.7	11
**ESLs - Commercial site usage	Shallow Soil (≤3 m)	Soil (mg/kg)	180	180	2500	8.4	0.270	9.3	4.7	11
	Deep Soil (>3 m)	Soil (mg/kg)	180	180	5000	8.4	2.0	9.3	4.7	11
Non Drinking Water Source		Water (µg/l)	210	210	210	1800	46	130	43	100
ESLs - Drinking Water Source		Water (µg/l)	100	100	100	5	1	40	30	20

Notes

**ESLs = Bay Area Regional Water Quality Control Board Environmental Screening Levels (Interim Final May 2008), where groundwater is NOT a source of Drinking Water



Source: Google Earth, 2007

Title: **Location Map**
3761 Park Boulevard Way
Oakland, California

Figure Number: 1

Scale: None

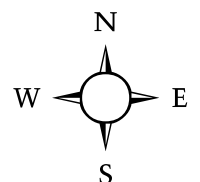
Project Number: 6783-013.00

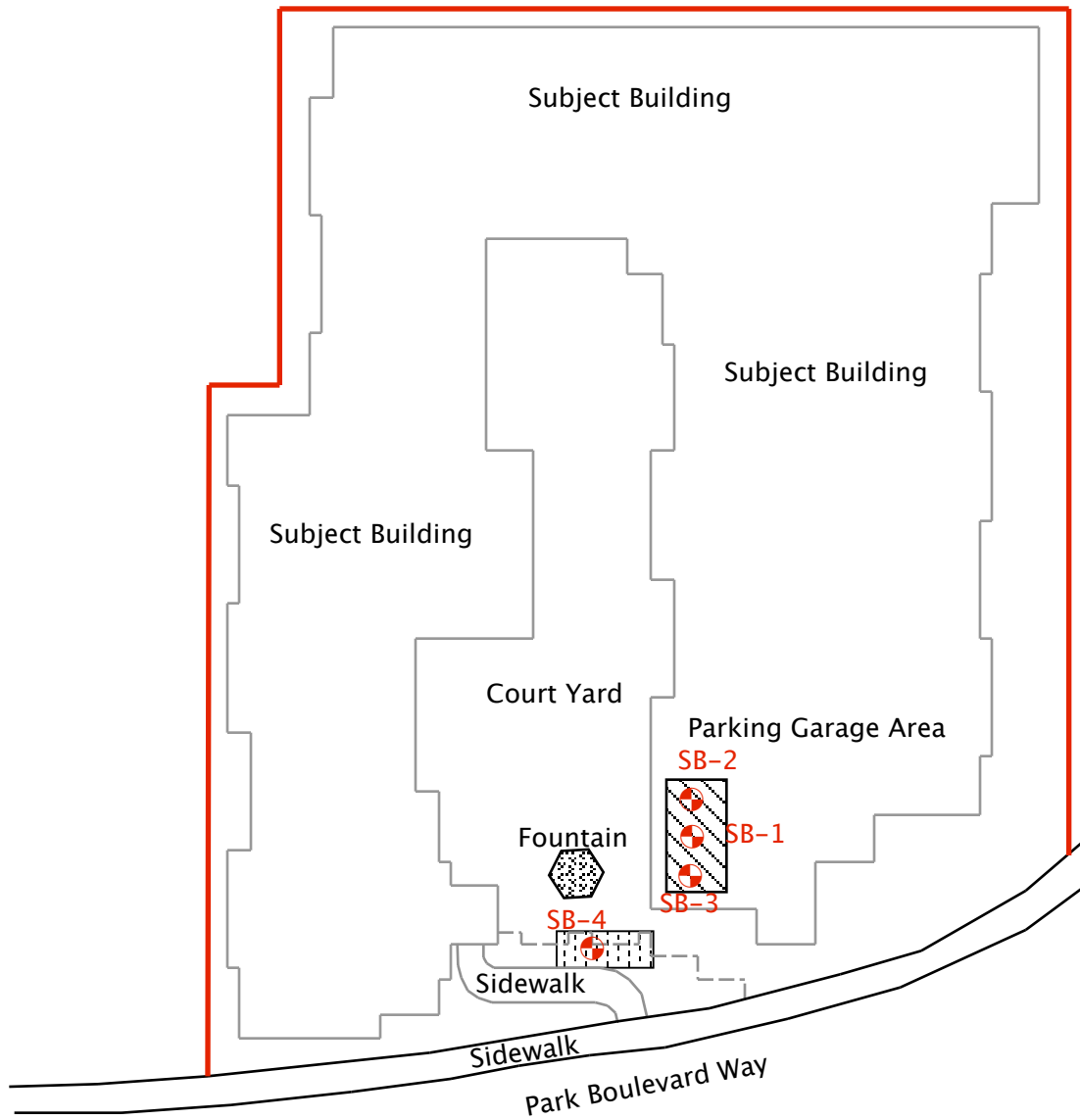
Drawn By: JMS

Date: 10/10/08









7977 Capwell Drive, Suite 100
 Oakland, California 94621
 (510) 638-8400 Fax: (510) 638-8404





LEGEND

-  Approximate Location of Former UST
-  Approximate Location of Property Boundary
-  Sample Locations
-  Approximate Location of Former Dispenser Island

Title: Sample Location Map 3761 Park Boulevard Way Oakland, California	
Figure Number: 1	Scale: None
Project Number: 6783-001.01	Drawn By: JMS
 An Employee Owned Company 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	Date: 12/8/08
	

ANALYTICAL REPORT

Job Number: 720-17141-1

SDG Number: 6783-001.01

Job Description: Park Village

For:

ACC Environmental Consultants

7977 Capwell Drive

Suite 100

Oakland, CA 94621

Attention: Julia Siudyla



Approved for release.
Melissa Brewer
Project Manager I
12/5/2008 4:04 PM

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
12/05/2008

Job Narrative
720-J17141-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 44521 could not be evaluated for accuracy and precision. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ACC Environmental Consultants

Job Number: 720-17141-1

Sdg Number: 6783-001.01

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-17141-3	SB-1 (6.5-7.5 FT.), (17-18 FT)				
Gasoline Range Organics (GRO)-C5-C12		260	49	mg/Kg	8260B/CA_LUFTMS
Ethylbenzene		4.7	0.98	mg/Kg	8260B/CA_LUFTMS
Xylenes, Total		8.5	2.0	mg/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		34	0.99	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		55	49	mg/Kg	8015B
720-17141-6	SB-2 (5-6 FT), (9.5-10.5 FT)				
Gasoline Range Organics (GRO)-C5-C12		280	49	mg/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		90	0.99	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		340	50	mg/Kg	8015B
720-17141-9	SB-4 (4-5 FT), (10-12 FT)				
Gasoline Range Organics (GRO)-C5-C12		0.33	0.25	mg/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		73	4.9	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		550	250	mg/Kg	8015B

METHOD SUMMARY

Client: ACC Environmental Consultants

Job Number: 720-17141-1

Sdg Number: 6783-001.01

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
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: ACC Environmental Consultants

Job Number: 720-17141-1

Sdg Number: 6783-001.01

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-17141-3	SB-1 (6.5-7.5 ft.), (17-18 ft)	Solid	12/02/2008 1015	12/02/2008 1405
720-17141-6	SB-2 (5-6 ft), (9.5-10.5 ft)	Solid	12/02/2008 1045	12/02/2008 1405
720-17141-9	SB-4 (4-5 ft), (10-12 ft)	Solid	12/02/2008 1155	12/02/2008 1405

Analytical Data

Client: ACC Environmental Consultants

Job Number: 720-17141-1

Sdg Number: 6783-001.01

Client Sample ID: SB-1 (6.5-7.5 ft.), (17-18 ft)

Lab Sample ID: 720-17141-3

Date Sampled: 12/02/2008 1015

Client Matrix: Solid

Date Received: 12/02/2008 1405

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-44549 Instrument ID: Saturn 2100
Preparation: 5030B-Medium Prep Batch: 720-44594 Lab File ID: d:\data\200812\120208\sa-s
Dilution: 200 Initial Weight/Volume: 5.08 g
Date Analyzed: 12/03/2008 0651 Final Weight/Volume: 10 mL
Date Prepared: 12/02/2008 1600

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		260		49
Benzene		ND		0.98
Toluene		ND		0.98
Ethylbenzene		4.7		0.98
Xylenes, Total		8.5		2.0
MTBE		ND		0.98
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		90		70 - 130
1,2-Dichloroethane-d4 (Surr)		107		70 - 130

Analytical Data

Client: ACC Environmental Consultants

Job Number: 720-17141-1

Sdg Number: 6783-001.01

Client Sample ID: SB-2 (5-6 ft), (9.5-10.5 ft)

Lab Sample ID: 720-17141-6

Date Sampled: 12/02/2008 1045

Client Matrix: Solid

Date Received: 12/02/2008 1405

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-44549	Instrument ID: Saturn 2100
Preparation:	5030B-Medium	Prep Batch: 720-44594	Lab File ID: d:\data\200812\120208\sa-s
Dilution:	200		Initial Weight/Volume: 5.11 g
Date Analyzed:	12/03/2008 0718		Final Weight/Volume: 10 mL
Date Prepared:	12/02/2008 1600		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		280		49
Benzene		ND		0.98
Toluene		ND		0.98
Ethylbenzene		ND		0.98
Xylenes, Total		ND		2.0
MTBE		ND		0.98
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		91		70 - 130
1,2-Dichloroethane-d4 (Surr)		103		70 - 130

Analytical Data

Client: ACC Environmental Consultants

Job Number: 720-17141-1

Sdg Number: 6783-001.01

Client Sample ID: SB-4 (4-5 ft), (10-12 ft)

Lab Sample ID: 720-17141-9

Date Sampled: 12/02/2008 1155

Client Matrix: Solid

Date Received: 12/02/2008 1405

8260B/CA_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA_LUFTMS Analysis Batch: 720-44607 Instrument ID: Varian 3900E
Preparation: 5030B Prep Batch: 720-44606 Lab File ID: e:\data\200812\120308\sa-s
Dilution: 1.0 Initial Weight/Volume: 5.05 g
Date Analyzed: 12/03/2008 1239 Final Weight/Volume: 10 mL
Date Prepared: 12/03/2008 0800

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		0.33		0.25
Benzene		ND		0.0050
Toluene		ND		0.0050
Ethylbenzene		ND		0.0050
Xylenes, Total		ND		0.0099
MTBE		ND		0.0050
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		90		74 - 118
1,2-Dichloroethane-d4 (Surr)		101		54 - 134

Analytical Data

Client: ACC Environmental Consultants

Job Number: 720-17141-1

Sdg Number: 6783-001.01

Client Sample ID: SB-1 (6.5-7.5 ft.), (17-18 ft)

Lab Sample ID: 720-17141-3

Date Sampled: 12/02/2008 1015

Client Matrix: Solid

Date Received: 12/02/2008 1405

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-44600	Instrument ID:	HP DRO5
Preparation:	3550B	Prep Batch: 720-44521	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	30.41 g
Date Analyzed:	12/04/2008 0125		Final Weight/Volume:	5 mL
Date Prepared:	12/02/2008 1448		Injection Volume:	
			Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		34		0.99
Motor Oil Range Organics [C24-C36]		55		49
Surrogate		%Rec		Acceptance Limits
p-Terphenyl		74		40 - 119

Analytical Data

Client: ACC Environmental Consultants

Job Number: 720-17141-1

Sdg Number: 6783-001.01

Client Sample ID: SB-2 (5-6 ft), (9.5-10.5 ft)

Lab Sample ID: 720-17141-6

Date Sampled: 12/02/2008 1045

Client Matrix: Solid

Date Received: 12/02/2008 1405

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-44600	Instrument ID:	HP DRO5
Preparation:	3550B	Prep Batch: 720-44521	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	30.29 g
Date Analyzed:	12/04/2008 0152		Final Weight/Volume:	5 mL
Date Prepared:	12/02/2008 1448		Injection Volume:	
			Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		90		0.99
Motor Oil Range Organics [C24-C36]		340		50

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	71	40 - 119

Analytical Data

Client: ACC Environmental Consultants

Job Number: 720-17141-1

Sdg Number: 6783-001.01

Client Sample ID: SB-4 (4-5 ft), (10-12 ft)

Lab Sample ID: 720-17141-9

Date Sampled: 12/02/2008 1155

Client Matrix: Solid

Date Received: 12/02/2008 1405

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-44600	Instrument ID:	HP DRO5
Preparation:	3550B	Prep Batch: 720-44521	Lab File ID:	N/A
Dilution:	5.0		Initial Weight/Volume:	30.31 g
Date Analyzed:	12/04/2008 0004		Final Weight/Volume:	5 mL
Date Prepared:	12/02/2008 1448		Injection Volume:	
			Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		73		4.9
Motor Oil Range Organics [C24-C36]		550		250
Surrogate	%Rec			Acceptance Limits
p-Terphenyl	0		D	40 - 119

DATA REPORTING QUALIFIERS

Client: ACC Environmental Consultants

Job Number: 720-17141-1

Sdg Number: 6783-001.01

Lab Section	Qualifier	Description
GC Semi VOA	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: ACC Environmental Consultants

Job Number: 720-17141-1

Sdg Number: 6783-001.01

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-44549					
LCS 720-44594/2-A	Lab Control Spike	T	Solid	8260B/CA_LUFT	720-44594
LCSD 720-44594/3-A	Lab Control Spike Duplicate	T	Solid	8260B/CA_LUFT	720-44594
MB 720-44594/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-44594
720-17141-3	SB-1 (6.5-7.5 ft.), (17-18 ft)	T	Solid	8260B/CA_LUFT	720-44594
720-17141-6	SB-2 (5-6 ft), (9.5-10.5 ft)	T	Solid	8260B/CA_LUFT	720-44594
Prep Batch: 720-44594					
LCS 720-44594/2-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-44594/3-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-44594/1-A	Method Blank	T	Solid	5030B	
720-17141-3	SB-1 (6.5-7.5 ft.), (17-18 ft)	T	Solid	5030B	
720-17141-6	SB-2 (5-6 ft), (9.5-10.5 ft)	T	Solid	5030B	
Prep Batch: 720-44606					
LCS 720-44606/2-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-44606/3-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-44606/1-A	Method Blank	T	Solid	5030B	
720-17141-9	SB-4 (4-5 ft), (10-12 ft)	T	Solid	5030B	
Analysis Batch:720-44607					
LCS 720-44606/2-A	Lab Control Spike	T	Solid	8260B/CA_LUFT	720-44606
LCSD 720-44606/3-A	Lab Control Spike Duplicate	T	Solid	8260B/CA_LUFT	720-44606
MB 720-44606/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-44606
720-17141-9	SB-4 (4-5 ft), (10-12 ft)	T	Solid	8260B/CA_LUFT	720-44606

Report Basis

T = Total

Quality Control Results

Client: ACC Environmental Consultants

Job Number: 720-17141-1

Sdg Number: 6783-001.01

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-44521					
LCS 720-44521/2-A	Lab Control Spike	T	Solid	3550B	
LCSD 720-44521/3-A	Lab Control Spike Duplicate	T	Solid	3550B	
MB 720-44521/1-A	Method Blank	T	Solid	3550B	
720-17141-3	SB-1 (6.5-7.5 ft.), (17-18 ft)	T	Solid	3550B	
720-17141-6	SB-2 (5-6 ft), (9.5-10.5 ft)	T	Solid	3550B	
720-17141-9	SB-4 (4-5 ft), (10-12 ft)	T	Solid	3550B	
Analysis Batch:720-44600					
LCS 720-44521/2-A	Lab Control Spike	T	Solid	8015B	720-44521
LCSD 720-44521/3-A	Lab Control Spike Duplicate	T	Solid	8015B	720-44521
MB 720-44521/1-A	Method Blank	T	Solid	8015B	720-44521
720-17141-3	SB-1 (6.5-7.5 ft.), (17-18 ft)	T	Solid	8015B	720-44521
720-17141-6	SB-2 (5-6 ft), (9.5-10.5 ft)	T	Solid	8015B	720-44521
720-17141-9	SB-4 (4-5 ft), (10-12 ft)	T	Solid	8015B	720-44521

Report Basis

T = Total

Quality Control Results

Client: ACC Environmental Consultants

Job Number: 720-17141-1
Sdg Number: 6783-001.01

Method Blank - Batch: 720-44594

Method: 8260B/CA_LUFTMS Preparation: 5030B

Lab Sample ID: MB 720-44594/1-A
Client Matrix: Solid
Dilution: 200
Date Analyzed: 12/02/2008 0855
Date Prepared: 12/02/2008 0800

Analysis Batch: 720-44549
Prep Batch: 720-44594
Units: mg/Kg

Instrument ID: Saturn 2100
Lab File ID: d:\data\200812\120208\mb
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C5-C12	ND		50
Benzene	ND		1.0
Toluene	ND		1.0
Ethylbenzene	ND		1.0
Xylenes, Total	ND		2.0
MTBE	ND		1.0
Surrogate	% Rec	Acceptance Limits	
Toluene-d8 (Surr)	100	70 - 130	
1,2-Dichloroethane-d4 (Surr)	108	70 - 130	

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

Quality Control Results

Client: ACC Environmental Consultants

Job Number: 720-17141-1
Sdg Number: 6783-001.01

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-44594**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-44594/2-A
Client Matrix: Solid
Dilution: 200
Date Analyzed: 12/02/2008 1257
Date Prepared: 12/02/2008 0800

Analysis Batch: 720-44549
Prep Batch: 720-44594
Units: mg/Kg

Instrument ID: Saturn 2100
Lab File ID: d:\data\200812\120208\ls-s
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-44594/3-A
Client Matrix: Solid
Dilution: 200
Date Analyzed: 12/02/2008 1203
Date Prepared: 12/02/2008 0800

Analysis Batch: 720-44549
Prep Batch: 720-44594
Units: mg/Kg

Instrument ID: Saturn 2100
Lab File ID: d:\data\200812\120208\ld-sc
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	114	109	74 - 121	5	20		
Toluene	114	110	86 - 121	4	20		
MTBE	124	114	84 - 127	9	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	107		116		70 - 130		
1,2-Dichloroethane-d4 (Surr)	121		121		70 - 130		

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

Quality Control Results

Client: ACC Environmental Consultants

Job Number: 720-17141-1
Sdg Number: 6783-001.01

Method Blank - Batch: 720-44606

Method: 8260B/CA_LUFTMS Preparation: 5030B

Lab Sample ID: MB 720-44606/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2008 1108
Date Prepared: 12/03/2008 0800

Analysis Batch: 720-44607
Prep Batch: 720-44606
Units: mg/Kg

Instrument ID: Varian 3900E
Lab File ID: e:\data\200812\120308\mb
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C5-C12	ND		0.25
Benzene	ND		0.0050
Toluene	ND		0.0050
Ethylbenzene	ND		0.0050
Xylenes, Total	ND		0.010
MTBE	ND		0.0050
Surrogate	% Rec		Acceptance Limits
Toluene-d8 (Surr)	80		74 - 118
1,2-Dichloroethane-d4 (Surr)	95		54 - 134

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

Quality Control Results

Client: ACC Environmental Consultants

Job Number: 720-17141-1
Sdg Number: 6783-001.01

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-44606**

**Method: 8260B/CA_LUFTMS
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-44606/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2008 1139
Date Prepared: 12/03/2008 0800

Analysis Batch: 720-44607
Prep Batch: 720-44606
Units: mg/Kg

Instrument ID: Varian 3900E
Lab File ID: e:\data\200812\120308\ls-s
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-44606/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2008 1202
Date Prepared: 12/03/2008 0800

Analysis Batch: 720-44607
Prep Batch: 720-44606
Units: mg/Kg

Instrument ID: Varian 3900E
Lab File ID: e:\data\200812\120308\ld-sc
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C5-C12	58	64	43 - 95	11	20		
Benzene	78	77	66 - 128	2	20		
Toluene	80	79	76 - 128	0	20		
MTBE	74	82	59 - 145	10	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	87		84		74 - 118		
1,2-Dichloroethane-d4 (Surr)	109		108		54 - 134		

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

Quality Control Results

Client: ACC Environmental Consultants

Job Number: 720-17141-1
Sdg Number: 6783-001.01

Method Blank - Batch: 720-44521

Method: 8015B
Preparation: 3550B

Lab Sample ID: MB 720-44521/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2008 1009
Date Prepared: 12/02/2008 1139

Analysis Batch: 720-44600
Prep Batch: 720-44521
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.12 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		1.0
Motor Oil Range Organics [C24-C36]	ND		50
Surrogate		% Rec	Acceptance Limits
p-Terphenyl	92		40 - 119

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-44521**

Method: 8015B
Preparation: 3550B

LCS Lab Sample ID: LCS 720-44521/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2008 0915
Date Prepared: 12/02/2008 1139

Analysis Batch: 720-44600
Prep Batch: 720-44521
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.16 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-44521/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/03/2008 0942
Date Prepared: 12/02/2008 1139

Analysis Batch: 720-44600
Prep Batch: 720-44521
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.10 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	77	83	50 - 130	9	30		
Surrogate		LCS % Rec	LCSD % Rec		Acceptance Limits		
p-Terphenyl	90	90	90		40 - 119		

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

720-17141

Report To **Analysis Request**

Attn: Julia Siudyla
 Company: ACC Environmental
 Address: 7977 Capwell drive
 Phone: 510 6388400 Email: Jsiudyla@accenv.com
 Bill To: ACC Sampled By: Julia Siudyla
 Attn: Julia Siudyla Phone: 510 6388400 x110

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA 8015 8015/0021 8026/08 X-Cas w/ BTEX-MTBE	Purgeable Aromatics BTEX EPA 8021 826/08	TEPH EPA 8015M* J Silica Gel Diesel Motor Oil Other	Fuel Tests EPA 826/08 J Gas BTEX Five Oxynates DCA EDB ...	Purgeable Halocarbons (HVOCS) EPA 8021 826/08	Volatile Organics GC/MS (VOCs) EPA 826/08 824	Semivolatiles GC/MS EPA 827/0 825	Oil and Grease Petroleum (EPA 1664) Total	Pesticides EPA 8081 808 EPA 8082 808	PNAs by 8270 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals Lead LlUFT RCRA Other	Low Level Metals by EPA 200.8/6020 (ICP-MS)	WE.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)	Spec Cond. TSS Alkalinity TDS	Anions C SO ₄ NO ₃ F Br NO ₂ PO ₄	
SB-1 (6.5-7.5 ft)	12-2-08	10:15	S	NONE	X		X															
SB-1 (7-12 ft)	12-2-08	10:30	S	NONE	X		X															X
SB-2 (5-6 ft)	12-2-08	10:50	S	NONE	X		X															X
SB-2 (9.5-10.5 ft)	12-2-08	10:45	S	NONE	X		X															X
SB-4 (4.5 ft)	12-2-08	11:55	S	NONE	X		X															X
SB-4 (10-12 ft)	12-2-08	12:05	S	NONE	X		X															X

RUSH

Composit

Project Info.	Sample Receipt	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Project Name: <u>Park Village</u>	# of Containers: _____	Signature: <u>[Signature]</u>	Signature: _____	Signature: _____
Project#: <u>6783-001.01</u>	Head Space: _____	Time: <u>14:05</u>	Time: _____	Time: _____
PO#: _____	Temp: <u>10.7°C 4 hrs</u>	Printed Name: _____	Printed Name: _____	Printed Name: _____
Credit Card#: _____	Conforms to record: _____	Date: _____	Date: _____	Date: _____
		Company: _____	Company: _____	Company: _____
T A T	5 Day 72h 48h 24h Other: _____	1) Received by: Signature: <u>[Signature]</u>	2) Received by: Signature: _____	3) Received by: Signature: _____
Report: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDD <input type="checkbox"/> Global ID	Special Instructions / Comments: _____	Time: <u>14:05</u>	Time: _____	Time: _____
		Printed Name: <u>Joan Mulvey</u>	Printed Name: _____	Printed Name: _____
		Date: <u>12-02-08</u>	Date: _____	Date: _____
		Company: <u>TestAmerica</u>	Company: _____	Company: _____

See Terms and Conditions on reverse
 *TestAmerica SF reports 8015M from C₉-C₂₄ (industry norm). Default for 8015B is C₁₀-C₂₄

Login Sample Receipt Check List

Client: ACC Environmental Consultants

Job Number: 720-17141-1

SDG Number: 6783-001.01

Login Number: 17141

Creator: Mullen, Joan

List Number: 1

List Source: TestAmerica San Francisco

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	

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Hydraulic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: Julia Siudyla LOCATION: 3761 Park Boulevard Way, Oakland, CA WORK DATE: 12/2/08 BORING: SB-1
Strong Gasoline Odor	0	SB-1 (6.5 - 7.0)		0	Asphalt pavement
	18.8			2	Sandy Clay (CL), Olive Grey, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted (interpreted as fill)
	127			4	Sandy Clay (CL), Dark Brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, gasoline odor and dark grey to black discoloration
	499			6	
	6469			8	
	78			10	
	86			12	
				14	
	100			16	SB-1 (17-18)
	180			18	Clay (CH), Greenish Grey, mod. to highly plastic, medium stiff, slight gasoline odor, no discoloration noted
				20	
				22	
				24	
				26	
	28				
					TOTAL DEPTH OF BORING: 24.0 feet bgs
ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404			Project Number 6783-001.01	Title LOG OF BORING SB-1	
			Date: 12/2/08		

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Hydraulic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: Julia Siudyla LOCATION: 3761 Park Boulevard Way, Oakland, CA WORK DATE: 12/2/08 BORING: SB-2
Gasoline Odor	16.4	SB-2 (5 -6)		0	Asphalt pavement
	80			2	Sandy Clay (CL), Brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted (interpreted as fill)
	180			4	Sandy Clay (CL), Greenish Grey to Dark Grey, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, gasoline odor and slight discoloration
	196			6	
	126	SB-2 (9.5 - 10.0)		8	
	135			10	Clay (CH), Dark Grey, mod. to highly plastic, medium stiff, gasoline odor, no discoloration noted
	93			12	
	25			14	
	0			16	TOTAL DEPTH OF BORING: 16 feet bgs
				18	
				20	
				22	
			24		
			26		
			28		

ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	Project Number 6783-001.01	Title LOG OF BORING SB-2
	Date: 12/2/08	

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Hydraulic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: Julia Siudyla LOCATION: 3761 Park Boulevard Way, Oakland, CA WORK DATE: 12/2/08 BORING: SB-3
	0	No Sample Collected		0 — 2 — 4 — 6 — 8 — 10 — 12 — 14 — 16 — 18 — 20 — 22 — 24 — 26 — 28 —	<div style="background-color: black; width: 100%; height: 10px; margin-bottom: 5px;"></div> Asphalt pavement <div style="background-color: #cccccc; width: 100%; height: 10px; margin-bottom: 5px;"></div> Sandy Clay (CL), Olive Grey, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted (interpreted as fill) Refusal Encountered at 2.5 feet bgs TOTAL DEPTH OF BORING: 2.5 feet bgs
ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404			Project Number 6783-001.01	Title LOG OF BORING SB-3	
			Date: 12/2/08		

Additional Observations	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Hydraulic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: Julia Siudyla LOCATION: 3761 Park Boulevard Way, Oakland, CA WORK DATE: 12/2/08 BORING: SB-4
	0	SB-4 (4-5)		0	Sandy Clay (CL), Brown, slightly to mod. plastic, medium stiff to soft, with fine to med grained sand, damp, no odor or discoloration noted (interpreted as fill)
	0			2	
	0			4	
	0			6	
	0			8	
	1210	SB-4 (10-12)		10	Clay (CH), Dark Grey, mod. to highly plastic, medium stiff, gasoline odor, no discoloration noted
	1614			12	
	1100			14	
				16	
				16	TOTAL DEPTH OF BORING: 16 feet bgs
				18	
				20	
				22	
				24	
				26	
				28	

ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	Project Number 6783-001.01 Date: 12/2/08	Title LOG OF BORING SB-4
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