

August 6, 2001

C. L. S.

'N1 AUS 9 PM 4 10

Mr. Benny Kwong Affordable Housing Associates 1250 Addison Street, Suite G Berkeley, California 94702

RE: Letter Report – Soil Boring Investigation 160 14th Street, Oakland, California

ACC Project No.01-6179-014.01

Dear Mr. Kwong:

ACC Environmental Consultants (ACC) has prepared this letter report summarizing findings of the soil boring investigation performed at 160 14<sup>th</sup> Street, Oakland, California (Figure 1). The primary goal of this investigation was to obtain current subsurface soil and groundwater data sufficient to warrant regulatory agency case closure for underground storage tanks formerly located at the subject property. The secondary goal was to determine if the presence of the adjacent dry cleaners has had an impact on the subject property.

The work performed included advancing three soil borings to total depths of 16 to 20 feet below ground surface (bgs) in representative locations chosen by ACC. The locations were deemed representative of soil that may be impacted due to the location of the former USTs and the adjacent dry cleaners.

#### **BACKGROUND**

The subject property is currently occupied by an asphalt-paved parking lot. ACC conducted a Phase I Environmental Site Assessment (ESA) on the subject property in April 2001. Based on information obtained during regulatory agency file review, it was determined that regulatory agency case closure had not been pursued when the former USTs were removed. In addition, during the site reconnaissance, ACC observed the presence of a dry cleaning business located adjacent to the subject property to the north.

#### FIELD PROCEDURES

Prior to field work, a soil boring permit was obtained from the Alameda County Public Works Agency, Water Resources Section (#WO1-569), and the area was cleared by Underground Service Alert. On July 23, 20001, three borings were advanced to a depth of 16 to 20 feet bgs using a limited-access Geoprobe® drill tool. Undisturbed soil from borings SB1 and SB2 was collected in clear acetate plastic liners. Two soil samples were collected from boring SB1 at depths of 13.5 feet and 15.5 feet bgs. Two samples were collected from boring SB2 at depths of 8.0 feet and 13.0 feet bgs. One grab groundwater sample was collected from each of soil borings SB1 and SB3.

Mr. Benny Kwong August 6, 2001 Page 2

Following collection of the samples, the liners were immediately covered with Teflon® and then capped with plastic end caps. The groundwater sample was collected in laboratory supplied, precleaned liter bottles and VOA vials. All samples were properly identified with labels and stored in a pre-chilled, insulated container to be transported following chain of custody protocol to STL Chromalab, Inc., a state certified analytical laboratory. The samples from SB1 and SB2 were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and for methyl tertiary butyl ether (MTBE) by EPA Method 8015, 8020/8021. One soil sample from SB2 (SB2-8.0) and one grab groundwater sample from B-1 (SB1-W) were analyzed for total extractable petroleum hydrocarbons (TEPH) by EPA Method 8015M. Both grab groundwater samples were analyzed for halogenated volatile organic compounds (HVOCs) by EPA Method 8010/8021. In addition, a grab groundwater sample from soil boring SB1 (SB1-W) was analyzed for BTEX by EPA Method 8020/8021.

#### SUBSURFACE CONDITIONS

The surface of the area investigated was covered by concrete to an approximate depth of 6 inches bgs. Subsurface soil consisted primarily of silt and sandy silt to an average depth of 12 feet bgs. Sand was observed from 12 feet bgs to 20 feet bgs. Soils were uniform across the area of the investigation (Figure 2). Additional details are included in logs for soil borings SB1 and SB2 (attached).

#### ANALYTICAL RESULTS

Analytical results for soil samples are summarized in Table 1 and grab groundwater results are summarized in Table 2. A copy of the analytical results and chain of custody record is attached. The sample number indicates the boring location the sample was collected from and the approximate depth the sample was collected. Boring locations are illustrated on Figure 2.

TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS

Sample No.	TPHg (mg/kg)	TEPH (mg/kg)	B/T/E/X (mg/kg)	MTBE (mg/kg)
SB1-13.0	<1.0	N/A	0.014/<0.005/<0.005/< 0.005	< 0.005
SB1-15.5	<1/0	N/A	<0.005/<0.005/<0.005/ <0.005	< 0.005
SB2-8.0	87	100* 600**	1/8/<0.62/2.0/<0.62	< 0.62
SB2-13.0	<1.0	N/A	<0.005/<0.005/<0.005/ <0.005	< 0.005

Notes: mg/kg = milligrams per kilogram (approximately equivalent to parts per million)

TABLE 2 - WATER SAMPLE ANALYTICAL RESULTS

Sample No.	TPHg	HVOCs	TEPH		B/T/E/X
	$(\mu g/L)$	(μg/L)	(µg/L)		(μg/L)
SB1-W	78	6.1 <sup>†</sup>	340*	5.7	/<0.5/1.9/<0.5
			<690**		
SB3-W	N/A	2.6 <sup>†</sup>	N/A		N/A

Notes:  $\mu g/L = micrograms per Liter$  (approximately equivalent to parts per billion)

#### DISCUSSION

Field observations indicate that fine-grained silts and clays are present at the site to a depth of 12 feet bgs. Soil in soil borings SB1 and SB2 were interpreted as fill materials to a depth of approximately 8 feet, which likely represents the depth of the former UST excavation. Some petroleum hydrocarbon odor and suspect soil discoloration were noted at 8 feet bgs; however, the presence of asphalt fragments in the soil made TEPH analytical results suspect. Generally, analytical results indicate that petroleum hydrocarbon residues are present in soil at approximately the bottom of the former USTs but were negligible or nonexistent in deeper soils from 13 to 15.5 feet bgs. TPHg was detected in boring SB2 at eight feet bgs at a concentration of 87 ppm but was not reported in the other three soil samples analyzed. MTBE was not detected in any of the soil samples. Concentrations of TEPH as diesel and motor oil were detected in boring SB2 at eight feet bgs; however these concentrations are suspect and may be the result of asphalt fragments in the soil.

<sup>\*</sup>TEPH as diesel

<sup>\*\*</sup> TEPH as motor oil

<sup>\*</sup>TEPH as diesel

<sup>\*\*</sup> TEPH as motor oil

 $<sup>\</sup>dagger$  = All concentrations of HVOCs for both water samples were below laboratory detection limits with the exception of tetrachloroethene. The value in the table is for that compound.

Mr. Benny Kwong August 6, 2001 Page 4

ACC collected grab groundwater samples in soil borings SB1 and SB3. Analytical results for the grab groundwater sample from soil boring SB1, collected immediately between the two former fuel USTs, reported 340 ppb diesel and trace concentrations of benzene and ethylbenzene. The TEPH range petroleum hydrocarbons were flagged as not matching the diesel standard and are likely representing weathered, degraded diesel residuals.

Analytical results also indicate that minor concentrations of tetrachloroethene (PCE) were detected in both grab groundwater samples. Since PCE only was detected, ACC believes this compound originated from the dry cleaners located adjacent to the subject property. The release appears to be minor, as the impact to groundwater is below the applicable drinking water standard maximum contaminant level.

#### **CONCLUSONS**

Based on the findings of this investigation, ACC concludes the following:

- Residual petroleum hydrocarbons concentrations in soil are low, appear to be largely localized
  to fine grained soils from 8 to 12 feet bgs, and do not warrant remediation or additional site
  investigation;
- Minor PCE concentrations exist in water at the site and likely originate from the dry cleaners immediately adjacent to the subject property; and
- ACC recommends that this site be evaluated for regulatory case closure as either a soils only
  case or a low-risk groundwater site.

If you have any questions regarding this report or the work performed at the site, please contact me at (510) 638-8400. x109

Sincerely.

Stephen Southern, REA I

Project Manager

Reviewed by:

David R. DeMent, RG, REA II

Senior Geologist

Enclosures

cc: Mr. Hernan Gomez, OFSA

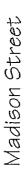
FIGURES



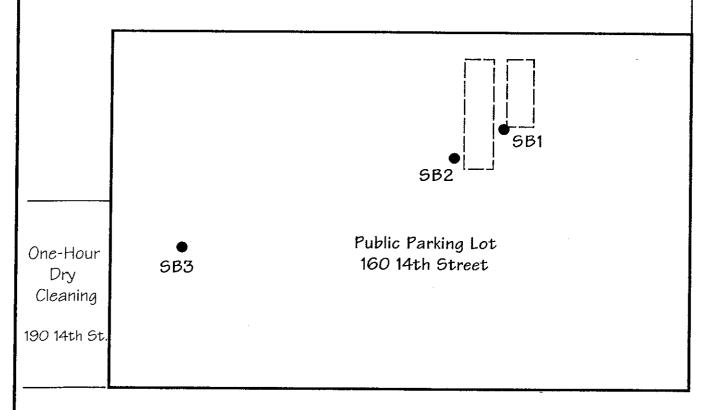
Source: The Thomas Guide, Alameda County, 2000

Title: Location Map 160 14th Street Oakland, California

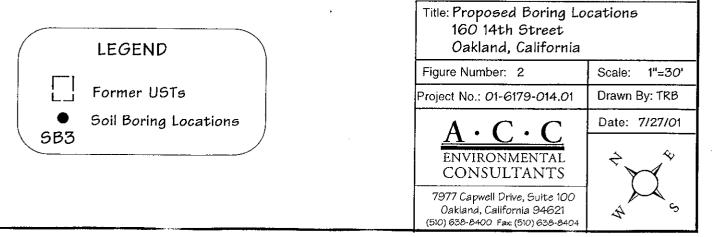
Figure Number: 1	Scale: None
Project No.: <b>01-61</b> 79-014 <b>.</b> 01	Drawn By: TRB
$A \cdot C \cdot C$	Date: 7/27/01
ENVIRONMENTAL CONSULTANTS	N W F
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	S E



Islamic Culture Church Building and Parking Lot 1433 Madison Street



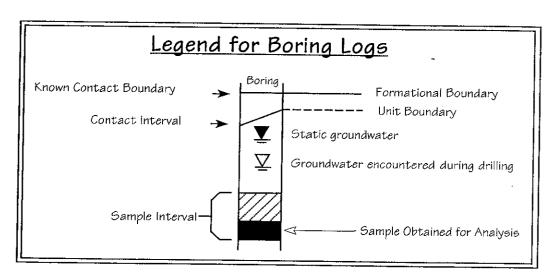
### 14th Street



APPENDICES

### UNIFIED SOIL CLASSIFICATION SYSTEM

\	MAJOR DIVI	SIONS			TYPICAL NAMES
	GRAVELS	CLEAN GRAVELS WITH LITTLE OR	GW		well graded gravels, gravel-sand mixtures
	more than half	NO FINES	GP		poorly graded gravels, gravel-sand mixtures
OILS	coarse fraction is larger than No. 4 sieve	GRAVELS WITH	GМ		silty gravels, poorly graded gravel-sand silt mixtures
half > #200 sieve	Sieve	OVER 12% FINES	GC		clayey gravels, poorly graded gravel-sand clay mixtures
an half	SANDS  more than half coarse fraction is smaller than No. 4 sieve	CLEAN SANDS WITH LITTLE OR NO FINES	sw		well graded sands, gravelly sands
more than h		LITTLE OR NO FINES	SP		poorly graded sands, gravelly sands
Ĕ		SANDS WITH OVER	5М		silty sands, poorly graded sand-silt mixtures
		12% FINES	sc		clayey sands, poorly graded sand-clay mixtures
sieve	SILTS AND CLAYS		ML		inorg. silts and v.fine sands, rock flour silty or clayey sands, or clayey silts w/sl. plasticity
8	liquid limit less than 50		CL		inorg. clays of low-med plasticity, gravelly clays, sandy clays, silty clays, lean clays
1 half < #2			OL		organic clays and organic silty clays of low plasticity
more than half	SILTS AND CLA	YS	мн		inorganic silty, micaceous or diatomacious fine sandy or silty soils, elastic silts
more 1	liquid limit greater than	-	сн		inorganic clays of high plasticity, fat clays
			он		organic clays of medium to high plasticity organic silts
	HIGHLY ORGANIC SOIL	5	PT	敠	peat and other highly organic soils



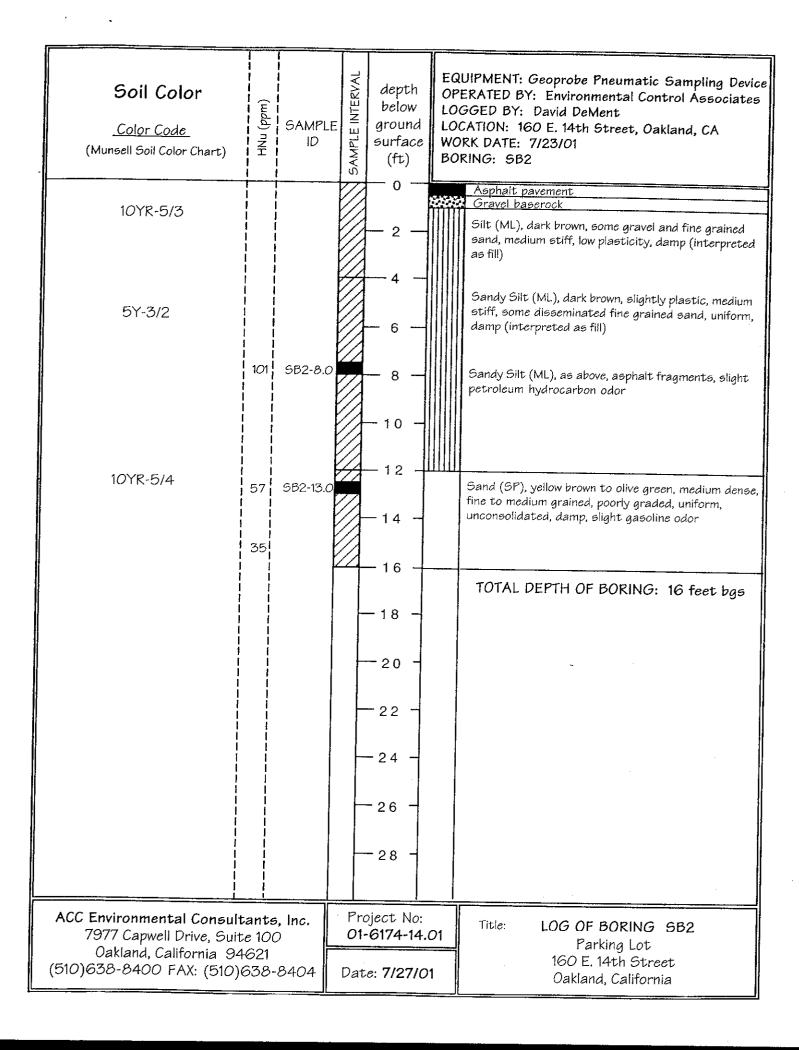
### ACC Environmental Consultants, Inc.

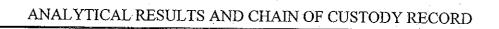
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404 Site:

SUBJECT SITE 160 E. 14th Street Oakland, California

Project No. 01-6174-014.01

ŧ=					<del></del>		
	Soil Color <u>Color Code</u> (Munsell Soil Color Chart)	(mdd) nNH	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	LC LC W(	QUIPMENT: Geoprobe Pneumatic Sampling Device PERATED BY: Environmental Control Associates OGGED BY: David DeMent OCATION: 160 E. 14th Street, Oakland, CAURK DATE: 7/23/01
	10YR-5/3	]			0 -	55 XX	Asphalt pavement Gravel baserock Silt (ML), dark brown, some gravel and fine grained
	5Y-3/2				- 2 - - 4 - - 6 - - 8 -		sand, medium stiff, low plasticity, damp (interpreted as fill)  Sandy Silt (ML), dark olive green to dark brown, slightly plastic, medium stiff, some disseminated very fine to medium grained sand, uniform, damp (interpreted as fill)  Sandy Silt (ML), as above, asphalt fragments
	10YR-5/4	1.9	581-13.5 581-15.5		- 10 - - 12 - - 14 - - 16 - - 18 -		Sand (SP), yellow brown to olive green, medium dense, fine to medium grained, poorly graded, uniform, unconsolidated, damp, slight gasoline odor  Sand (SP), as above
					-20 - -22 - -24 - -26 -		TOTAL DEPTH OF BORING: 20 feet bgs  PROBE ADVANCED TO 22 FEET BGS AND SCREEN OPENED FROM 18-22 FEET BGS FOR GRAB GROUNDWATER SAMPLE  (Water sample turbid, brown, no odor)
	 				-28 -		
	ACC Environmental Consul 7977 Capwell Drive, Sui Oakland, California 94 510)638-8400 FAX: (510)		01	oject No: -6174-14 ce: 7/27/0	.01	Title: <b>LOG OF BORING 5B1</b> Parking Lot 160 E. 14th Street Oakland, California	





#### Gas/BTEX Compounds by 8015M/8021

**ACC Environmental Consultants** 

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 01-6179-014.01

Attn: Dave DeMent

Project: 160 14th Street

#### Samples Reported

Sample ID	Matrix	Date Sampled	Lab#
SB1-13.0	Soil	07/23/2001 07:30	1
SB1-15.5	Soil	07/23/2001 07:35	2
SB2-13.0	Soil	07/23/2001 08:45	4
SB1-W	Water	07/23/2001 07:50	5

Environmental Services (CA 1094)

Submission #: 2001-07-0420

**ACC Environmental Consultants** 

Test Method:

8015M 8021B

Attn.: Dave DeMent

Prep Method:

5030

5035

Gas/BTEX Compounds by 8015M/8021

Sample ID:

SB1-15.5

Lab Sample ID: 2001-07-0420-002

Project:

To:

01-6179-014.01

Received:

07/23/2001 18:27

160 14th Street

Sampled:

07/23/2001 07:35

Extracted:

07/27/2001 16:41

Matrix:

Soil

QC-Batch:

2001/07/27-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/27/2001 16:41	
Benzene	ND	0.0050	mg/Kg	1.00	07/27/2001 16:41	
Toluene	ND	0.0050	mg/Kg	1.00	07/27/2001 16:41	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/27/2001 16:41	
Xylene(s)	ND	0.0050	mg/Kg	1.00	07/27/2001 16:41	
MTBE	ND	0.0050	mg/Kg	1.00	07/27/2001 16:41	
Surrogate(s)						
Trifluorotoluene	97.2	53-125	%	1.01	07/27/2001 16:41	
4-Bromofluorobenzene-FID	80.4	58-124	%	1.01	07/27/2001 16:41	

Environmental Services (CA 1094)

**ACC Environmental Consultants** 

Test Method:

8015M

Submission #: 2001-07-0420

8021B

Attn.: Dave DeMent

Prep Method:

5030

5035

Gas/BTEX Compounds by 8015M/8021

Sample ID:

SB1-W

Lab Sample ID: 2001-07-0420-005

Project:

To:

01-6179-014.01 160 14th Street Received:

07/23/2001 18:27

Extracted:

07/24/2001 11:47

Sampled:

07/23/2001 07:50

Matrix:

Water

QC-Batch:

2001/07/24-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	78	50	ug/L	1.00	07/24/2001 11:47	
Benzene	5.7	0.50	ug/L	1.00	07/24/2001 11:47	
Toluene	ND	0.50	ug/L	1.00	07/24/2001 11:47	
Ethyl benzene	1.9	0.50	ug/L	1.00	07/24/2001 11:47	
Xylene(s)	ND	0.50	ug/L	1.00	07/24/2001 11:47	
Surrogate(s)	İ					
4-Bromofluorobenzene	124.8	50-150	%	1.00	07/24/2001 11:47	
4-Bromofluorobenzene-FID	114.3	50-150	%	1.00	07/24/2001 11:47	

Environmental Services (CA 1094)

**ACC Environmental Consultants** 

Test Method:

8015M

8021B

Attn.: Dave DeMent

To:

Prep Method:

5035

#### **Batch QC Report**

Gas/BTEX Compounds by 8015M/8021

**Method Blank** 

Soil

QC Batch # 2001/07/25-01.02

Submission #: 2001-07-0420

MB:

2001/07/25-01.02-003

Date Extracted: 07/25/2001 08:08

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline Benzene	ND ND	1.0 0.0050	mg/Kg mg/Kg	07/25/2001 08:08 07/25/2001 08:08	Y
Toluene Ethyl herzene	ND	0.0050	mg/Kg	07/25/2001 08:08	
Xylene(s)	ND ND	0.0050 0.0050	mg/Kg mg/Kg	07/25/2001 08:08 07/25/2001 08:08	
Foluene Ethyl benzene Kylene(s) MTBE Gurrogate(s) Fifluorotoluene	ND	0.0050	mg/Kg	07/25/2001 08:08	
Surrogate(s) Trifluorotoluene 4-Bromofluorobenzene-FID	119.2 110.4	53-125 58-124	%	07/25/2001 08:08 07/25/2001 08:08	

Environmental Services (CA 1094)

**ACC Environmental Consultants** 

Test Method:

8021B

Submission #: 2001-07-0420

Attn: Dave DeMent

To:

Prep Method:

5030

### **Batch QC Report**

Gas/BTEX Compounds by 8015M/8021

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2001/07/24-01.03

LCS: LCSD: 2001/07/24-01.03-004 2001/07/24-01.03-005

Extracted: 07/24/2001 08:43 Extracted: 07/24/2001 09:14

Analyzed Analyzed 07/24/2001 08:43 07/24/2001 09:14

Compound	Conc.	[ ug/L ]	Exp.Conc.	[ ug/L ]	Recov	very [%]	RPD	Ctrl. Limi	ts [%]	Flag	10
	LCS	LCSD	LCS	LCSD		LCSD	1	Recovery	T -	LCS	LCSD
Benzene	89.5	90.9	100.0	100.0	89.5	1	-	77-123	20		1.000
Toluene	85.4	88.3	100.0	100.0	85.4		'''	78-122	20	1	
Ethyl benzene	87.8	92.3	100.0	100.0	87.8			70-122	20	,	
Xylene(s)	258	270	300	300	86.0			75-125	20	· •	
Surrogate(s)			1				1	1		i	
rifluorotoluene	436	434	500	500	87.2	86.8	1	58-124	1	i	

Environmental Services (CA 1094)

**ACC Environmental Consultants** 

Test Method:

8021B

Submission #: 2001-07-0420

Attn: Dave DeMent

To:

Prep Method:

5035

#### **Batch QC Report**

Gas/BTEX Compounds by 8015M/8021

Laboratory Control Spike (LCS/LCSD)

Soil

QC Batch # 2001/07/25-01.02

LCS: LCSD: 2001/07/25-01.02-004 2001/07/25-01.02-005

Extracted: 07/25/2001 08:40

Analyzed Extracted: 07/25/2001 09:11 Analyzed

07/25/2001 08:40 07/25/2001 09:11

Compound	Conc.	[ mg/Kg ]	Exp.Conc.	[ mg/Kg ]	Recovery [%]		RPD	Ctrl. Limits [%]		Flag	gs
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	0.0982	0.0941	0.1000	0.1000	98.2	94.1	4.3	77-123	35		
Toluene	0.0987	0.0962	0.1000	0.1000	98.7	96.2	2.6	78-122	35		
Ethyl benzene	0.0965	0.0955	0.1000	0.1000	96.5	95.5	1.0	70-130	35		
Xylene(s)	0.274	0.278	0.300	0.300	91.3	92.7	1.5	75-125	35		
Surrogate(s) Trifluorotoluene	536	511	500	500	107.2	102.2		53-125			

Environmental Services (CA 1094)

o: ACC Environmental Consultants

Test Method:

8021B

Attn: Dave DeMent

Prep Method:

5035

#### **Batch QC Report**

Gas/BTEX Compounds by 8015M/8021

Laboratory Control Spike (LCS/LCSD)

Soil

QC Batch # 2001/07/27-01.02

LCS:

2001/07/27-01.02-004

Extracted: 07/27/2001 08:56

Analyzed

07/27/2001 08:56

Submission #: 2001-07-0420

LCSD:

2001/07/27-01.02-005

Extracted: 07/27/2001 09:27

Analyzed

07/27/2001 09:27

Compound	Conc.	[ mg/Kg ]	Exp.Conc.	[ mg/Kg ]	Recov	Recovery [%]		Ctrl. Lim	its [%]	Fiag	gs
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	0.0916	0.0976	0.1000	0.1000	91.6	97.6	6.3	77-123	<b>3</b> 5		
Toluene	0.0919	0.0988	0.1000	0.1000	91.9	98.8	7.2	78-122	35		
Ethyl benzene	0.0895	0.0959	0.1000	0.1000	89.5	95.9	6.9	70-130	35		
Xylene(s)	0.258	0.276	0.300	0.300	86.0	92.0	6.7	75-125	35		
Surrogate(s) Trifluorotoluene	497	528	500	500	99.4	105.6		53-125			

Printed on: 08/06/2001 14:26

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Total Extractable Petroleum Hydrocarbons (TEPH)

**ACC Environmental Consultants** 

2 7977 Capwell Drive, Suite 100

Oakland, CA 94621

Attn: Dave DeMent

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 01-6179-014.01

Project: 160 14th Street

#### Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SB2-8.0	Soil	07/23/2001 08:35	3
SB1-W	Water	07/23/2001 07:50	5

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: **ACC Environmental Consultants** 

Test Method:

8015M

Attn.: Dave DeMent

Prep Method:

3510/8015M

3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:

SB1-W

Lab Sample ID: 2001-07-0420-005

Project:

01-6179-014.01 160 14th Street

Received:

07/23/2001 18:27

Sampled:

Sample/Analysis Flag rl (See Legend & Note section)

Extracted:

07/23/2001 07:50

QC-Batch:

07/24/2001 11:13 2001/07/24-02.10

Matrix:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel Motor Oil	340 ND	69 690	ug/L ug/L	1.39 1.39	07/25/2001 14:19 07/25/2001 14:19	ndp
Surrogate(s) o-Terphenyl	85.3	60-130	%	1.39	07/25/2001 14:19	

Environmental Services (CA 1094)

ACC Environmental Consultants

Test Method:

8015M

Attn.: Dave DeMent

Prep Method:

3550/8015M

#### Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

**Method Blank** 

Soil

QC Batch # 2001/07/24-01.10

Submission #: 2001-07-0420

MB:

2001/07/24-01.10-001

Date Extracted: 07/24/2001 10:02

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel Motor Oil	ND ND	1 50	mg/Kg mg/Kg	07/24/2001 13:16 07/24/2001 13:16	
Surrogate(s) o-Terphenyl	78.5	60-130	%	07/24/2001 13:16	

Submission #: 2001-07-0420

Environmental Services (CA 1094)

To: ACC Environmental Consultants

Test Method:

8015M

Attn: Dave DeMent

Prep Method:

3510/8015M

#### **Batch QC Report**

Total Extractable Petroleum Hydrocarbons (TEPH)

 LCS:
 2001/07/24-02.10-002
 Extracted:
 07/24/2001 11:13
 Analyzed
 07/25/2001 09:27

 LCSD:
 2001/07/24-02.10-003
 Extracted:
 07/24/2001 11:13
 Analyzed
 07/25/2001 09:27

Compound	Conc.	[ ug/L ]	Exp.Conc.	[ ug/L ]	Recov	ery [%]	RPD	Ctrl. Lim	its [%]	Flag	)s
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	998	1050	1250	1250	79.8	84.0	5.1	60-130	25		
Surrogate(s) o-Terphenyl	14.8	17.0	20.0	20.0	74.0	85.0		60-130			

Environmental Services (CA 1094)

#### Halogenated Volatile Organic Compounds by 8021

**ACC Environmental Consultants** 

Oakland, CA 94621

Attn: Dave DeMent

Phone: (510) 638-8400 Fax: (510) 638-8404

Project #: 01-6179-014.01

Project: 160 14th Street

#### Samples Reported

Sample ID	Matrix	Date Sampled	Lab#
SB1-W	Water	07/23/2001 07:50	5
SB3-W	Water	07/23/2001 09:20	6

Environmental Services (CA 1094)

To: **ACC Environmental Consultants** 

Test Method:

8021B

Submission #: 2001-07-0420

Attn.: Dave DeMent

Prep Method:

5030B

Halogenated Volatile Organic Compounds by 8021

Sample ID:

SB3-W

Lab Sample ID: 2001-07-0420-006

Project:

01-6179-014.01

Received:

07/23/2001 18:27

160 14th Street

Extracted:

07/27/2001 15:55

Sampled:

07/23/2001 09:20

QC-Batch:

2001/07/27-01.25

Matrix:

Water

			· · · · · · · · · · · · · · · · · · ·	1		
Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	07/27/2001 15:55	
Vinyl chloride	ND	0.50	ug/L	1.00	07/27/2001 15:55	
Chloroethane	ND	0.50	ug/L	1.00	07/27/2001 15:55	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	07/27/2001 15:55	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/27/2001 15:55	
Methylene chloride	ND	5.0	ug/L	1.00	07/27/2001 15:55	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/27/2001 15:55	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/27/2001 15:55	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/27/2001 15:55	
Chloroform	ND	0.50	ug/L	1.00	07/27/2001 15:55	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/27/2001 15:55	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/27/2001 15:55	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/27/2001 15:55	
Trichloroethene	ND	0.50	ug/L	1.00	07/27/2001 15:55	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/27/2001 15:55	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/27/2001 15:55	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	07/27/2001 15:55	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/27/2001 15:55	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/27/2001 15:55	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/27/2001 15:55	
Tetrachloroethene	2.6	0.50	ug/L	1.00	07/27/2001 15:55	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/27/2001 15:55	
Chlorobenzene	ND	0.50	ug/L	1.00	07/27/2001 15:55	
Bromoform	ND	2.0	ug/L	1.00	07/27/2001 15:55	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/27/2001 15:55	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/27/2001 15:55	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/27/2001 15:55	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/27/2001 15:55	
Trichlorotrifluoroethane	ND	2.0	ug/L	1.00	07/27/2001 15:55	
Chloromethane	ND	1.0	ug/L	1.00	07/27/2001 15:55	
Bromomethane	ND	1.0	ug/L	1.00	07/27/2001 15:55	
Surrogate(s)						
1-Chloro-2-fluorobenzene	91.8	70-130	%	1.00	07/27/2001 15:55	

Environmental Services (CA 1094)

**ACC Environmental Consultants** To:

Test Method:

8021B

Submission #: 2001-07-0420

Attn: Dave DeMent

Prep Method:

5030B

#### **Batch QC Report**

Halogenated Volatile Organic Compounds by 8021

Laboratory Control Spike (LCS/LCSD)

Water

QC Batch # 2001/07/27-01.25

LCS:

2001/07/27-01.25-003

Extracted: 07/27/2001 12:10

Analyzed

07/27/2001 12:10

LCSD: 2001/07/27-01.25-004

Extracted: 07/27/2001 12:55

Analyzed

07/27/2001 12:55

Compound	Conc.	[ ug/L ]	Exp.Conc.	[ ug/L. ]	Recovery [%]		RPD	Ctrl. Lim	ts [%]	Flag	gs
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD .	LCS	LCSD
1,1-Dichloroethene	18.7	20.0	20.0	20.0	93.5	100.0	6.7	50-140	20		
Trichloroethene	19.6	20.6	20.0	20.0	98.0	103.0	5.0	50-150	20		
Chlorobenzene	18.9	20.0	20.0	20.0	94.5	100.0	5.7	50-150	20		
Surrogate(s) 1-Chloro-2-fluorobenzene	19.2	20.1	20	20	96.0	100.5		50-150			

### SEVERN TRENT SERVICES

# STL ChromaLab

Chain of Custody

1220 Quarry Lane ● Pleasanton CA 94566-4756 Phone: (925) 484-1919 ● Fax: (925) 484-1096 Email: <u>info@chromalab.com</u>

Reference #: \_\_\_\_\_ Date 7/23/01 Page 1 of 1

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Proj.Mgr David R. De	Ment			- I	×																	1
Company ACC Environ	nmental	TBE		Silica Gel Other	4 ED8				Ę		_ 0		RCRA		Q.	<u></u>	70.				ļ	
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Sampler (Signature)	4	TPH (EPA 8015, 8020/8021)	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) □ X Diesel 35 Motor Oil □	Fuel Oxygenates (8260B); ☐ DCA, EDB ☐ Full Oxygenate List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Se	Pesticides (EPA 8081) PCBs (EPA 8082)	0 8270	CAM17 Metals (EPA 6010/7470/7471)	Metals; ☐ Lead ☐ LUFT ☐ Other.	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H <sub>2</sub> O)	Spec Cond. TSS	CI DS					Number of Containers
Phone F	Fax: (510) 638-8404	₩/ .	EPA	(EPA	genat	ble H S) (E	Org.	latile: 270)	Oil and Grease (EPA 1664)	estici CBs (		Meta 710/7	3   3	E.T.	exava 1 (24)	၂၁၈						S C
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