

**ACC Environmental
Consultants, Inc.**

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

FAXES 10:40AM

RECEIVED
2:52 pm, Dec 19, 2008
Alameda County
Environmental Health

Fax

To: Benny Kwong / Affordable Housing **From:** Trevor Bausman

Fax: (510) 548-3094 **Pages:** 9 (excluding Coversheet)

Phone: (510) 649-8500 **Date:** 08/09/01

Re: 160 14th Street, Oakland **CC:**

As Requested **For Review** **Please Comment** **Please Reply** **Other:**


Dear Mr. Kwong:

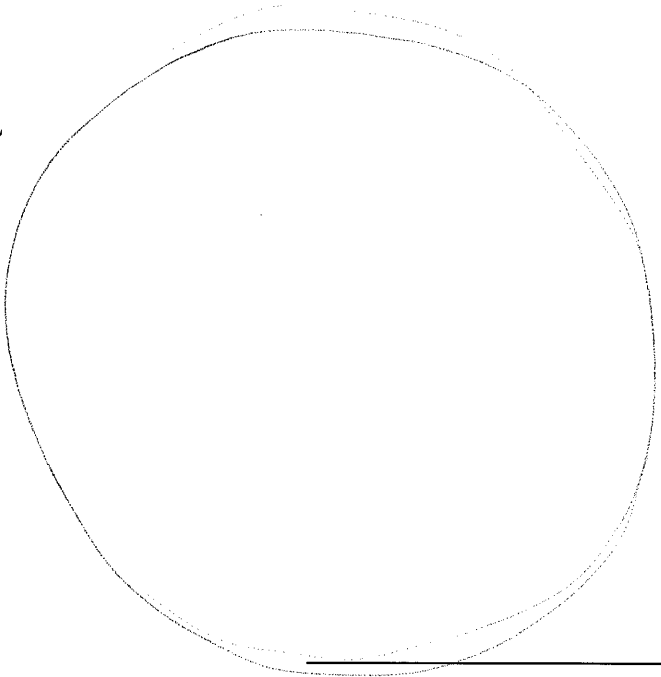
I have included the following with this fax cover sheet:

The Subsurface Investigation Report sent out this past Tuesday.

If you do not receive the report copies by Monday, please contact me and I will send new copies to you.

If you have any questions, you can reach me at (510) 638-8400 ext. 113, or email me at: tbausman@accenv.com.


Trevor Bausman
Administrative Assistant
Environmental Division



August 6, 2001

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 14th 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.

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, pre-cleaned 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 1.8	<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)

*TEPH as diesel

** TEPH as motor oil

TABLE 2 - WATER SAMPLE ANALYTICAL RESULTS

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

Notes: µg/L = micrograms per Liter (approximately equivalent to parts per billion)

*TEPH as diesel

** TEPH as motor oil

† = 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.

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.

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.

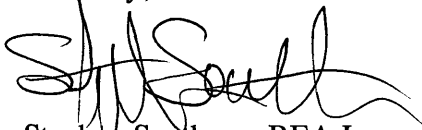
CONCLUSIONS

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.

Sincerely,



Stephen Southern, REA I
Project Manager

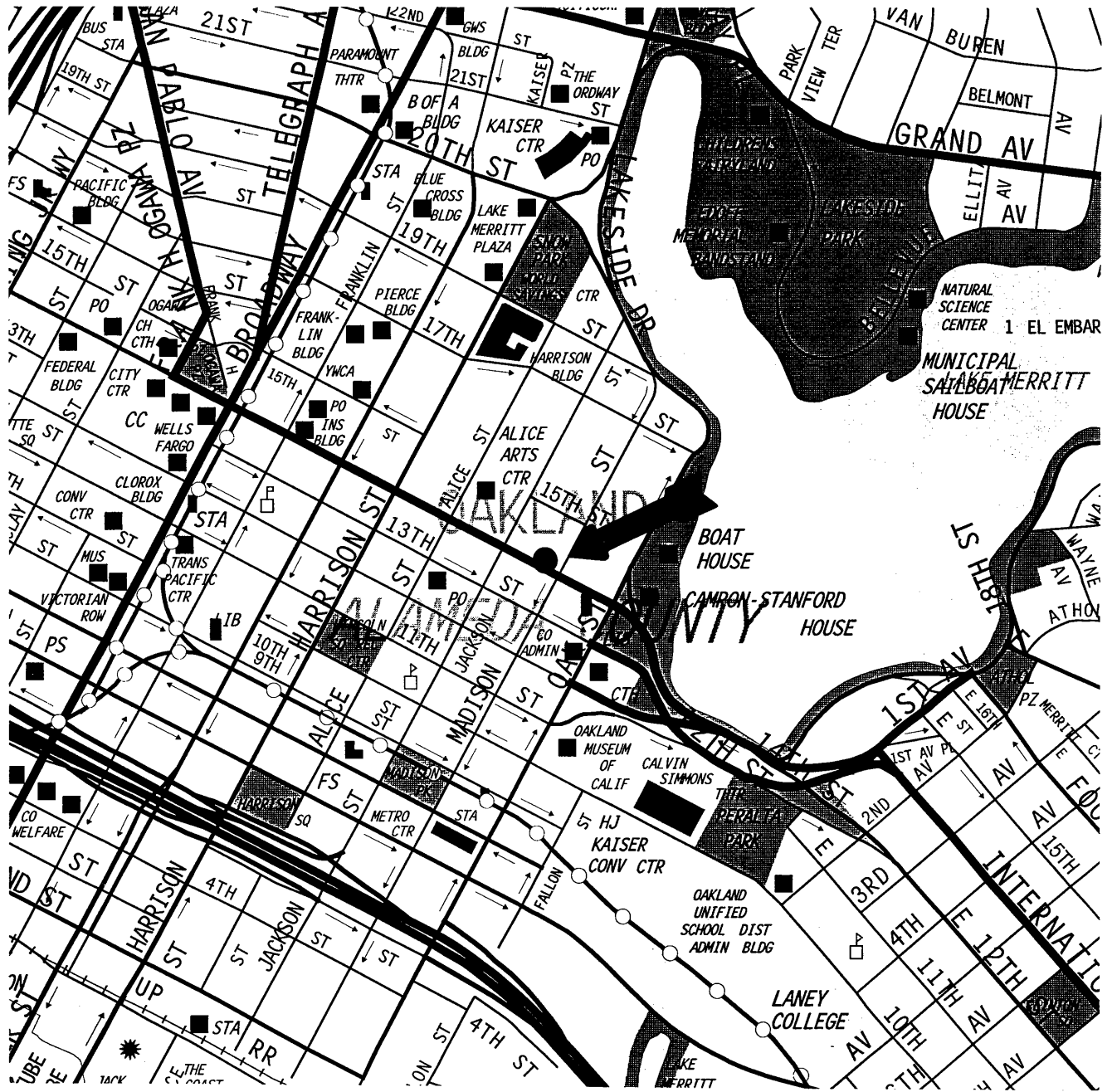
Reviewed by:



David R. DeMent, RG, REA II
Senior Geologist

Enclosures

cc: Mr. Hernan Gomez, OFSA



Source: The Thomas Guide, Alameda County, 2000

Title: Location Map
160 14th Street
Oakland, California

Figure Number: 1

Scale: None

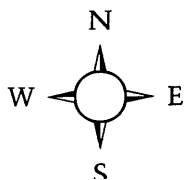
Project No.: 01-6179-014.01

Drawn By: TRB

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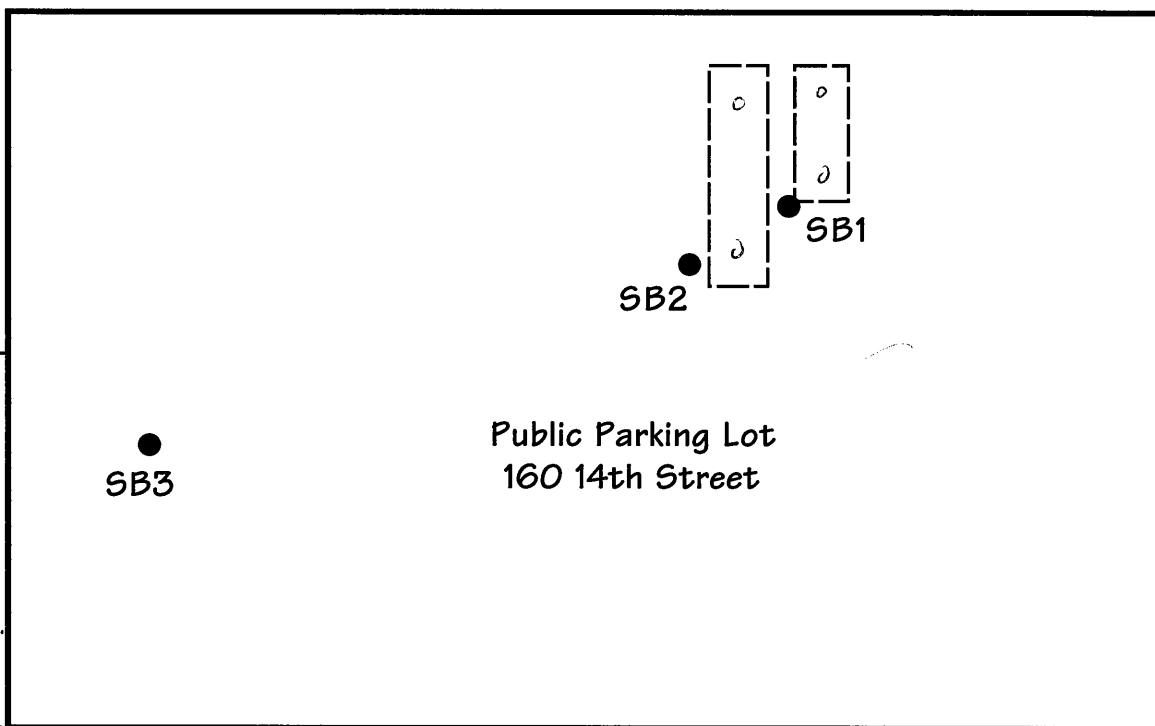
Date: 7/27/01

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



Islamic Culture
Church Building and
Parking Lot
1433 Madison Street

Madison Street



One-Hour
Dry
Cleaning
190 14th St.

Public Parking Lot
160 14th Street

14th Street

LEGEND



Former USTs



Soil Boring Locations

SB3

Title: **Proposed Boring Locations**
160 14th Street
Oakland, California

Figure Number: 2

Scale: 1"=30'

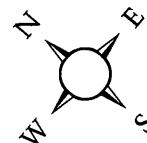
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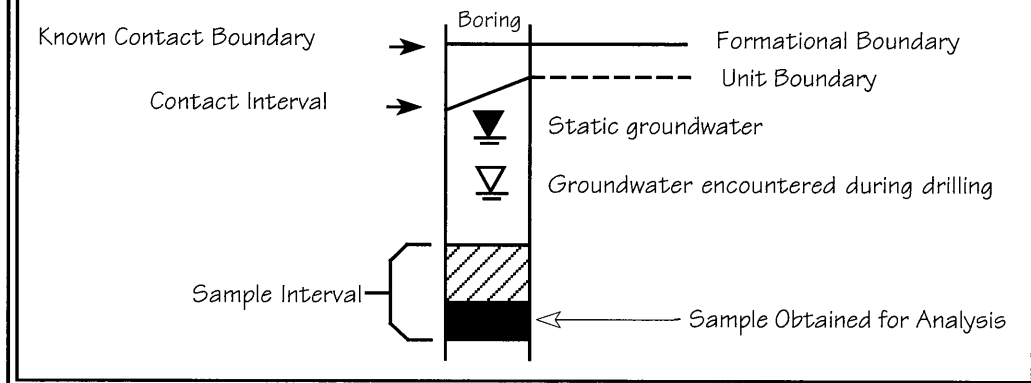
7977 Capwell Drive, Suite 100
Oakland, California 94621
(510) 638-8100 Fax: (510) 638-8101



UNIFIED SOIL CLASSIFICATION SYSTEM


MAJOR DIVISIONS		TYPICAL NAMES																																					
COARSE GRAINED SOILS more than half > #200 sieve	GRAVELS more than half coarse fraction is larger than No. 4 sieve	CLEAN GRAVELS WITH LITTLE OR NO FINES	<table border="0" style="width: 100%;"> <tr> <td style="width: 50px; text-align: center;">GW</td> <td style="width: 30px;"></td> <td>well graded gravels, gravel-sand mixtures</td> </tr> <tr> <td style="text-align: center;">GP</td> <td></td> <td>poorly graded gravels, gravel-sand mixtures</td> </tr> <tr> <td style="text-align: center;">GM</td> <td></td> <td>silty gravels, poorly graded gravel-sand silt mixtures</td> </tr> <tr> <td style="text-align: center;">GC</td> <td></td> <td>clayey gravels, poorly graded gravel-sand clay mixtures</td> </tr> </table>	GW		well graded gravels, gravel-sand mixtures	GP		poorly graded gravels, gravel-sand mixtures	GM		silty gravels, poorly graded gravel-sand silt mixtures	GC		clayey gravels, poorly graded gravel-sand clay mixtures																								
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Legend for Boring Logs



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

Soil Color <u>Color Code</u> (Munsell Soil Color Chart)	HNu (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Pneumatic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: David DeMent LOCATION: 160 E. 14th Street, Oakland, CA WORK DATE: 7/23/01 BORING: SB1
10YR-5/3				0	Asphalt pavement
				2	Gravel baserock
				2	Silt (ML), dark brown, some gravel and fine grained sand, medium stiff, low plasticity, damp (interpreted as fill)
				4	
5Y-3/2				6	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)
				8	Sandy Silt (ML), as above, asphalt fragments
	0			10	
	0			12	
10YR-5/4				12	Sand (SP), yellow brown to olive green, medium dense, fine to medium grained, poorly graded, uniform, unconsolidated, damp, slight gasoline odor
	1.9	SB1-13.5		14	
	4.2	SB1-15.5		16	Sand (SP), as above
				18	
				20	TOTAL DEPTH OF BORING: 20 feet bgs
				22	PROBE ADVANCED TO 22 FEET BGS AND SCREEN OPENED FROM 18-22 FEET BGS FOR GRAB GROUNDWATER SAMPLE
				24	
				26	(Water sample turbid, brown, no odor)
				28	

ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	Project No: 01-6174-14.01	Title: LOG OF BORING SB1 Parking Lot 160 E. 14th Street Oakland, California
	Date: 7/27/01	

ACC Environmental Consultants

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Mr. Dave DeMent

Project: 01-6179-014.01
160 14th Street

Dear Mr. DeMent,

Attached is our report for your samples received on Monday July 23, 2001
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after September 6, 2001
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: vvancil@chromalab.com

Sincerely,



Vincent Vancil

Halogenated Volatile Organic Compounds by 8021

ACC Environmental Consultants	✉ 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 #
SB1-W	Water	07/23/2001 07:50	5
SB3-W	Water	07/23/2001 09:20	6

To: **ACC Environmental Consultants**

Test Method: 8021B

Attn.: Dave DeMent

Prep Method: 5030B

Halogenated Volatile Organic Compounds by 8021

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: 07/23/2001 07:50	Extracted: 07/27/2001 15:10
Matrix: Water	QC-Batch: 2001/07/27-01.25

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	07/27/2001 15:10	
Vinyl chloride	ND	0.50	ug/L	1.00	07/27/2001 15:10	
Chloroethane	ND	0.50	ug/L	1.00	07/27/2001 15:10	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	07/27/2001 15:10	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/27/2001 15:10	
Methylene chloride	ND	5.0	ug/L	1.00	07/27/2001 15:10	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/27/2001 15:10	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/27/2001 15:10	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/27/2001 15:10	
Chloroform	ND	0.50	ug/L	1.00	07/27/2001 15:10	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/27/2001 15:10	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/27/2001 15:10	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/27/2001 15:10	
Trichloroethene	ND	0.50	ug/L	1.00	07/27/2001 15:10	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/27/2001 15:10	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/27/2001 15:10	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	07/27/2001 15:10	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/27/2001 15:10	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/27/2001 15:10	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/27/2001 15:10	
Tetrachloroethene	6.1	0.50	ug/L	1.00	07/27/2001 15:10	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/27/2001 15:10	
Chlorobenzene	ND	0.50	ug/L	1.00	07/27/2001 15:10	
Bromoform	ND	2.0	ug/L	1.00	07/27/2001 15:10	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/27/2001 15:10	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/27/2001 15:10	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/27/2001 15:10	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/27/2001 15:10	
Trichlorotrifluoroethane	ND	2.0	ug/L	1.00	07/27/2001 15:10	
Chloromethane	ND	1.0	ug/L	1.00	07/27/2001 15:10	
Bromomethane	ND	1.0	ug/L	1.00	07/27/2001 15:10	
Surrogate(s)						
1-Chloro-2-fluorobenzene	95.6	70-130	%	1.00	07/27/2001 15:10	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: ACC Environmental Consultants

Test Method: 8021B

Attn.: Dave DeMent

Prep Method: 5030B

Halogenated Volatile Organic Compounds by 8021

Sample ID: SB3-W	Lab Sample ID: 2001-07-0420-006
Project: 01-6179-014.01 160 14th Street	Received: 07/23/2001 18:27
Sampled: 07/23/2001 09:20	Extracted: 07/27/2001 15:55
Matrix: Water	QC-Batch: 2001/07/27-01.25

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	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

To: **ACC Environmental Consultants**
 Attn.: Dave DeMent

Test Method: 8021B
 Prep Method: 5030B

Batch QC Report

Halogenated Volatile Organic Compounds by 8021

Method Blank	Water	QC Batch # 2001/07/27-01.25
MB: 2001/07/27-01.25-002		Date Extracted: 07/27/2001 11:24

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	07/27/2001 11:24	
Vinyl chloride	ND	0.5	ug/L	07/27/2001 11:24	
Chloroethane	ND	0.5	ug/L	07/27/2001 11:24	
Trichlorofluoromethane	ND	0.5	ug/L	07/27/2001 11:24	
1,1-Dichloroethene	ND	0.5	ug/L	07/27/2001 11:24	
Methylene chloride	ND	5.0	ug/L	07/27/2001 11:24	
trans-1,2-Dichloroethene	ND	0.5	ug/L	07/27/2001 11:24	
cis-1,2-Dichloroethene	ND	0.5	ug/L	07/27/2001 11:24	
1,1-Dichloroethane	ND	0.5	ug/L	07/27/2001 11:24	
Chloroform	ND	0.5	ug/L	07/27/2001 11:24	
1,1,1-Trichloroethane	ND	0.5	ug/L	07/27/2001 11:24	
Carbon tetrachloride	ND	0.5	ug/L	07/27/2001 11:24	
1,2-Dichloroethane	ND	0.5	ug/L	07/27/2001 11:24	
Trichloroethene	ND	0.5	ug/L	07/27/2001 11:24	
1,2-Dichloropropane	ND	0.5	ug/L	07/27/2001 11:24	
Bromodichloromethane	ND	0.5	ug/L	07/27/2001 11:24	
2-Chloroethylvinyl ether	ND	0.5	ug/L	07/27/2001 11:24	
trans-1,3-Dichloropropene	ND	0.5	ug/L	07/27/2001 11:24	
cis-1,3-Dichloropropene	ND	0.5	ug/L	07/27/2001 11:24	
1,1,2-Trichloroethane	ND	0.5	ug/L	07/27/2001 11:24	
Tetrachloroethene	ND	0.5	ug/L	07/27/2001 11:24	
Dibromochloromethane	ND	0.5	ug/L	07/27/2001 11:24	
Chlorobenzene	ND	0.5	ug/L	07/27/2001 11:24	
Bromoform	ND	2.0	ug/L	07/27/2001 11:24	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	07/27/2001 11:24	
1,3-Dichlorobenzene	ND	0.5	ug/L	07/27/2001 11:24	
1,4-Dichlorobenzene	ND	0.5	ug/L	07/27/2001 11:24	
1,2-Dichlorobenzene	ND	0.5	ug/L	07/27/2001 11:24	
Trichlorotrifluoroethane	ND	2.0	ug/L	07/27/2001 11:24	
Chloromethane	ND	1.0	ug/L	07/27/2001 11:24	
Bromomethane	ND	1.0	ug/L	07/27/2001 11:24	
Surrogate(s)					
1-Chloro-2-fluorobenzene	85.0	50-150	%	07/27/2001 11:24	

To: **ACC Environmental Consultants**

Test Method: 8021B

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. Limits [%]		Flags	
	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			

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: **ACC Environmental Consultants**

Test Method: 8021B

Attn.: Dave DeMent

Prep Method: 5030B

Batch QC Report

Halogenated Volatile Organic Compounds by 8021

Matrix Spike (MS / MSD)

Water

QC Batch # 2001/07/27-01.25

Sample ID: **SB1-W**

Lab Sample ID: 2001-07-0420-005

MS: 2001/07/27-01.25-010 Extracted: 07/27/2001 17:27 Analyzed: 07/27/2001 17:27 Dilution: 1.0

MSD: 2001/07/27-01.25-011 Extracted: 07/27/2001 18:13 Analyzed: 07/27/2001 18:13 Dilution: 1.0

Compound	Conc. [ug/L]			Exp. Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
1,1-Dichloroethene	18.3	19.0	ND	20.0	20.0	91.5	95.0	3.8	70-130	20		
Trichloroethene	19.9	20.5	ND	20.0	20.0	99.5	102.5	3.0	70-130	20		
Chlorobenzene	19.4	20.0	ND	20.0	20.0	97.0	100.0	3.0	70-130	20		
Surrogate(s)												
1-Chloro-2-fluorobenzen	19.5	20.2		20	20	97.5	101.0		70-130			

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants	✉ 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 #
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

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: **ACC Environmental Consultants**

Test Method: 8015M
8021B

Attn.: Dave DeMent

Prep Method: 5030
5035

Gas/BTEX Compounds by 8015M/8021

Sample ID: SB1-13.0	Lab Sample ID: 2001-07-0420-001
Project: 01-6179-014.01 160 14th Street	Received: 07/23/2001 18:27
Sampled: 07/23/2001 07:30	Extracted: 07/25/2001 12:54
Matrix: Soil	QC-Batch: 2001/07/25-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/25/2001 12:54	
Benzene	0.014	0.0050	mg/Kg	1.00	07/25/2001 12:54	
Toluene	ND	0.0050	mg/Kg	1.00	07/25/2001 12:54	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/25/2001 12:54	
Xylene(s)	ND	0.0050	mg/Kg	1.00	07/25/2001 12:54	
MTBE	ND	0.0050	mg/Kg	1.00	07/25/2001 12:54	
Surrogate(s)						
Trifluorotoluene	55.3	53-125	%	1.00	07/25/2001 12:54	
Trifluorotoluene-FID	54.0	53-125	%	1.00	07/25/2001 12:54	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: **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: 01-6179-014.01 160 14th Street	Received: 07/23/2001 18:27
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	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: **ACC Environmental Consultants**

Test Method: 8015M
8021B

Attn.: Dave DeMent

Prep Method: 5030
5035

Gas/BTEX Compounds by 8015M/8021

Sample ID: SB2-13.0	Lab Sample ID: 2001-07-0420-004
Project: 01-6179-014.01 160 14th Street	Received: 07/23/2001 18:27
Sampled: 07/23/2001 08:45	Extracted: 07/27/2001 17:45
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 17:45	
Benzene	ND	0.0050	mg/Kg	1.00	07/27/2001 17:45	
Toluene	ND	0.0050	mg/Kg	1.00	07/27/2001 17:45	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/27/2001 17:45	
Xylene(s)	ND	0.0050	mg/Kg	1.00	07/27/2001 17:45	
MTBE	ND	0.0050	mg/Kg	1.00	07/27/2001 17:45	
Surrogate(s)						
Trifluorotoluene	103.8	53-125	%	1.02	07/27/2001 17:45	
4-Bromofluorobenzene-FID	89.4	58-124	%	1.02	07/27/2001 17:45	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: **ACC Environmental Consultants**

Test Method: 8015M
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: 01-6179-014.01 160 14th Street	Received: 07/23/2001 18:27
Sampled: 07/23/2001 07:50	Extracted: 07/24/2001 11:47
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)						
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	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: **ACC Environmental Consultants**

Test Method: 8015M

8021B

Attn.: Dave DeMent

Prep Method: 5030

Batch QC Report

Gas/BTEX Compounds by 8015M/8021

Method Blank	Water	QC Batch # 2001/07/24-01.03
MB: 2001/07/24-01.03-003		Date Extracted: 07/24/2001 08:12

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	07/24/2001 08:12	
Benzene	ND	0.5	ug/L	07/24/2001 08:12	
Toluene	ND	0.5	ug/L	07/24/2001 08:12	
Ethyl benzene	ND	0.5	ug/L	07/24/2001 08:12	
Xylene(s)	ND	0.5	ug/L	07/24/2001 08:12	
MTBE	ND	5.0	ug/L	07/24/2001 08:12	
Surrogate(s)					
Trifluorotoluene	109.8	58-124	%	07/24/2001 08:12	
4-Bromofluorobenzene-FID	94.3	50-150	%	07/24/2001 08:12	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: ACC Environmental Consultants

Test Method: 8015M
8021B

Attn.: Dave DeMent

Prep Method: 5035

Batch QC Report

Gas/BTEX Compounds by 8015M/8021

Method Blank	Soil	QC Batch # 2001/07/25-01.02
MB: 2001/07/25-01.02-003		Date Extracted: 07/25/2001 08:08

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

STL ChromaLab

Environmental Services (CA 1094)

Submission #: ~~2001-07-0420~~ ^{REVISED} 2001-07-0420

To: ACC Environmental Consultants

Test Method: 8015M

8021B

Attn.: Dave DeMent

Prep Method: 5035

Batch QC Report

Gas/BTEX Compounds by 8015M/8021

Method Blank	Soil	QC Batch # 2001/07/27-01.02
MB: 2001/07/27-01.02-003		Date Extracted: 07/27/2001 08:24

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	07/27/2001 08:24	
Benzene	ND	0.0050	mg/Kg	07/27/2001 08:24	
Toluene	ND	0.0050	mg/Kg	07/27/2001 08:24	
Ethyl benzene	ND	0.0050	mg/Kg	07/27/2001 08:24	
Xylene(s)	ND	0.0050	mg/Kg	07/27/2001 08:24	
MTBE	ND	0.0050	mg/Kg	07/27/2001 08:24	
Surrogate(s)					
Trifluorotoluene	119.7	53-125	%	07/27/2001 08:24	
4-Bromofluorobenzene-FID	108.4	58-124	%	07/27/2001 08:24	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: ACC Environmental Consultants

Test Method: 8021B

Attn: Dave DeMent

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: 2001/07/24-01.03-004	Extracted: 07/24/2001 08:43	Analyzed 07/24/2001 08:43
LCSD: 2001/07/24-01.03-005	Extracted: 07/24/2001 09:14	Analyzed 07/24/2001 09:14

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recovery	RPD	LCS
Benzene	89.5	90.9	100.0	100.0	89.5	90.9	1.6	77-123	20		
Toluene	85.4	88.3	100.0	100.0	85.4	88.3	3.3	78-122	20		
Ethyl benzene	87.8	92.3	100.0	100.0	87.8	92.3	5.0	70-130	20		
Xylene(s)	258	270	300	300	86.0	90.0	4.5	75-125	20		
Surrogate(s)											
Trifluorotoluene	436	434	500	500	87.2	86.8		58-124			

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: ACC Environmental Consultants

Test Method: 8015M

Attn: Dave DeMent

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: 2001/07/24-01.03-006	Extracted: 07/24/2001 09:45	Analyzed 07/24/2001 09:45
LCSD: 2001/07/24-01.03-007	Extracted: 07/24/2001 10:15	Analyzed 07/24/2001 10:15

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	460	476	500	500	92.0	95.2	3.4	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-FI	453	466	500	500	90.6	93.2		50-150			

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: 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 # 2001/07/25-01.02	
LCS:	2001/07/25-01.02-004	Extracted:	07/25/2001 08:40	Analyzed	07/25/2001 08:40
LCSD:	2001/07/25-01.02-005	Extracted:	07/25/2001 09:11	Analyzed	07/25/2001 09:11

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recovery	RPD	LCS
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			

STL ChromaLab

Environmental Services (CA 1094)

REVISÉD
Submission #: 2001-07-0420

To: **ACC Environmental Consultants**
Attn: Dave DeMent

Test Method: 8015M
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: 2001/07/25-01.02-006	Extracted: 07/25/2001 09:43	Analyzed 07/25/2001 09:43
LCSD: 2001/07/25-01.02-007	Extracted: 07/25/2001 10:14	Analyzed 07/25/2001 10:14

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	0.548	0.480	0.500	0.500	109.6	96.0	13.2	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene-FI	520	524	500	500	104.0	104.8		58-124			

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: 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
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]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	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	35		
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			

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: ACC Environmental Consultants

Test Method: 8015M

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:	2001/07/27-01.02-006	Extracted:	07/27/2001 09:59	Analyzed	07/27/2001 09:59
LCSD:	2001/07/27-01.02-007	Extracted:	07/27/2001 10:30	Analyzed	07/27/2001 10:30

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	0.471	0.464	0.500	0.500	94.2	92.8	1.5	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene-FI	519	512	500	500	103.8	102.4		58-124			

Gas/BTEX Compounds (High Level)

ACC Environmental Consultants

✉ 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

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: ACC Environmental Consultants

Test Method: 8015M
8021B

Attn.: Dave DeMent

Prep Method: 5030

Gas/BTEX Compounds (High Level)

Sample ID: SB2-8.0	Lab Sample ID: 2001-07-0420-003
Project: 01-6179-014.01 160 14th Street	Received: 07/23/2001 18:27
Sampled: 07/23/2001 08:35	Extracted: 07/30/2001 13:20
Matrix: Soil	QC-Batch: 2001/07/30-05.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	87	10	mg/Kg	1.00	07/30/2001 13:20	
Benzene	1.8	0.62	mg/Kg	1.00	07/30/2001 13:20	
Toluene	ND	0.62	mg/Kg	1.00	07/30/2001 13:20	
Ethyl benzene	2.0	0.62	mg/Kg	1.00	07/30/2001 13:20	
Xylene(s)	ND	0.62	mg/Kg	1.00	07/30/2001 13:20	
MTBE	ND	0.62	mg/Kg	1.00	07/30/2001 13:20	
Surrogate(s)						
4-Bromofluorobenzene	90.2	58-124	%	1.00	07/30/2001 13:20	
4-Bromofluorobenzene-FID	156.1	58-124	%	1.00	07/30/2001 13:20	sh

To: **ACC Environmental Consultants**

Test Method: 8015M

8021B

Attn.: Dave DeMent

Prep Method: 5030

Batch QC Report
Gas/BTEX Compounds (High Level)

Method Blank	Soil	QC Batch # 2001/07/30-05.02
MB: 2001/07/30-05.02-001		Date Extracted: 07/30/2001 15:52

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	10	mg/Kg	07/30/2001 15:52	
Benzene	ND	0.62	mg/Kg	07/30/2001 15:52	
Toluene	ND	0.62	mg/Kg	07/30/2001 15:52	
Ethyl benzene	ND	0.62	mg/Kg	07/30/2001 15:52	
Xylene(s)	ND	0.62	mg/Kg	07/30/2001 15:52	
MTBE	ND	0.62	mg/Kg	07/30/2001 15:52	
Surrogate(s)					
Trifluorotoluene	89.8	53-125	%	07/30/2001 15:52	
4-Bromofluorobenzene-FID	90.6	58-124	%	07/30/2001 15:52	

To: **ACC Environmental Consultants**

Test Method: 8015M
8021B

Attn: Dave DeMent

Prep Method: 5030

Batch QC Report

Gas/BTEX Compounds (High Level)

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2001/07/30-05.02
LCS: 2001/07/30-05.02-002	Extracted: 07/30/2001 12:24	Analyzed 07/30/2001 12:24
LCSD: 2001/07/30-05.02-003	Extracted: 07/30/2001 12:57	Analyzed 07/30/2001 12:57

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	0.731	0.709	0.625	0.625	117.0	113.4	3.1	75-125	35		
Benzene	0.116	0.110	0.125	0.125	92.8	88.0	5.3	77-123	35		
Toluene	0.117	0.111	0.125	0.125	93.6	88.8	5.3	78-122	35		
Ethyl benzene	0.115	0.113	0.125	0.125	92.0	90.4	1.8	70-130	35		
Xylene(s)	0.349	0.333	0.375	0.375	93.1	88.8	4.7	75-125	35		
Surrogate(s)											
Trifluorotoluene	534	493	500	500	106.8	98.6		53-125			
4-Bromofluorobenzene-FI	363	369	500	500	72.6	73.8		58-124			

To: **ACC Environmental Consultants**

Test Method: 8021B
8015M

Attn: Dave DeMent

Prep Method: 5030

Legend & Notes

Gas/BTEX Compounds (High Level)

Analyte Flags

sh

Surrogate recovery was higher than QC limit due to matrix interference.

Total Extractable Petroleum Hydrocarbons (TEPH)

ACC Environmental Consultants	✉ 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

STL ChromaLab

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: SB2-8.0	Lab Sample ID: 2001-07-0420-003
Project: 01-6179-014.01 160 14th Street	Received: 07/23/2001 18:27
Sampled: 07/23/2001 08:35	Extracted: 07/24/2001 10:02
Matrix: Soil	QC-Batch: 2001/07/24-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	100	10	mg/Kg	10.00	07/26/2001 01:39	ndp
Motor Oil	650	500	mg/Kg	10.00	07/26/2001 01:39	
Surrogate(s) o-Terphenyl	NA	60-130	%	10.00	07/26/2001 01:39	sd

STL ChromaLab

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: 07/23/2001 07:50	Extracted: 07/24/2001 11:13
Matrix: Water	QC-Batch: 2001/07/24-02.10
Sample/Analysis Flag rl (See Legend & Note section)	

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

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-07-0420

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015M
Prep Method: 3510/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank	Water	QC Batch # 2001/07/24-02.10
MB: 2001/07/24-02.10-001		Date Extracted: 07/24/2001 11:13

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	07/24/2001 15:41	
Motor Oil	ND	500	ug/L	07/24/2001 15:41	
Surrogate(s) o-Terphenyl	78.0	60-130	%	07/24/2001 15:41	

To: **ACC Environmental Consultants**
Attn.: Dave DeMent

Test Method: 8015M
Prep Method: 3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank	Soil	QC Batch # 2001/07/24-01.10
MB: 2001/07/24-01.10-001		Date Extracted: 07/24/2001 10:02

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

To: **ACC Environmental Consultants**

Test Method: 8015M

Attn: Dave DeMent

Prep Method: 3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2001/07/24-01.10
LCS: 2001/07/24-01.10-002	Extracted: 07/24/2001 10:02	Analyzed 07/24/2001 14:05
LCSD: 2001/07/24-01.10-003	Extracted: 07/24/2001 10:02	Analyzed 07/24/2001 14:53

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		[%]	Recovery	RPD	LCS
Diesel	31.2	32.0	41.7	41.7	74.8	76.7	2.5	60-130	25		
Surrogate(s)											
o-Terphenyl	16.7	16.8	20.0	20.0	83.5	84.0		60-130			

To: ACC Environmental Consultants

Test Method: 8015M

Attn: Dave DeMent

Prep Method: 3510/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2001/07/24-02.10
LCS: 2001/07/24-02.10-002	Extracted: 07/24/2001 11:13	Analyzed 07/25/2001 08:47
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]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	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			

To: **ACC Environmental Consultants**

Attn: Dave DeMent

Test Method: 8015M

Prep Method: 3510/8015M
3550/8015M

Legend & Notes

Total Extractable Petroleum Hydrocarbons (TEPH)

Analysis Flags

rl

Reporting limits raised due to reduced sample size.

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

707 P01 JUL 23 '01 13:52

TRENT SERVICES

STL ChromaLab

Chain of Custody

Phone: (925) 484-1919 • Fax: (925) 484-1096

Email: info@chromalab.com

2001-07-0420

Date 7/23/01 Page 1 of 1

From Analysis Request

Proj.Mgr	David R. DeMent
Company	ACC Environmental
Address	7977 Capwell Drive Oakland, CA 94621
Sampler (Signature)	
Phone	Fax: (510) 638-8404
(510) 638-8400 x 109	Email: ddement@accenv.com

<input checked="" type="checkbox"/> TPH (EPA 8015, 8020/8021)	<input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> MTBE	<input type="checkbox"/> Purgable Aromatics BTEX (EPA 8020/8021)	<input checked="" type="checkbox"/> TEPH (EPA 8015M) <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	<input type="checkbox"/> Fuel Oxygenates (8260B) <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Full Oxygenate List <input type="checkbox"/> MTBE <input type="checkbox"/> BTEX	<input type="checkbox"/> Purgable Halocarbons (HVOCs) (EPA 8010/8021)	<input type="checkbox"/> Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	<input type="checkbox"/> Semivolatiles GC/MS (EPA 8270)	<input type="checkbox"/> Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	<input type="checkbox"/> Pesticides (EPA 8081) <input type="checkbox"/> PCBs (EPA 8082)	<input type="checkbox"/> PNAa by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	<input type="checkbox"/> GAM17 Metals (EPA 6010/7470/7471)	<input type="checkbox"/> Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	<input type="checkbox"/> WET (STLC) <input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium pH (24h hold time for H ₂ O)	<input type="checkbox"/> Spec Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	<input type="checkbox"/> Anions: <input type="checkbox"/> 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
---	---	--	---	---	---	---	---	--	---	--	--	--	---	--	---	---

Sample ID	Date	Time	Mat	Pres	Env	TPH	Gas w/ MTBE	Purgable Aromatics BTEX	TEPH	Fuel Oxygenates	Purgable Halocarbons	Volatile Organics GC/MS	Semivolatiles GC/MS	Oil and Grease	Pesticides	PCBs	PNAa by	GAM17 Metals	Metals	WET	TCLP	Hexavalent Chromium	Spec Cond.	Alkalinity	TSS	TDS	Anions	
SB1-13.0	7/23/01	7:30	Soil	Coll		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																					
SB1-15.5		7:35				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																					
SB2-8.0		8:35				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
SB2-130		8:45				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																					
SB1-W	7/23/01	7:50	Water	Wet		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																	
SB3-W		9:20				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>																	

Project Info.				Sample Receipt			
Project Name:		160 14 th Street		# of Containers:			
Project#:		01-6179-014.0		Head Space:			
C#:		6179-14.1		Temp:			
Credit Card#:				Conforms to record:			
<input checked="" type="checkbox"/> Std 5 Day	<input type="checkbox"/> 72h	<input type="checkbox"/> 48h	<input type="checkbox"/> 24h	Other			

1) Relinquished by:

Signature _____ Time _____

David R. DeMent 7/23/01

Printed Name _____ Date _____

ACC Environmental

Company _____

2) Relinquished by:

Signature _____ Time _____

Printed Name _____ Date _____

Company _____

3) Relinquished by:

Signature _____ Time _____

Printed Name _____ Date _____

Company _____

Report: Routine Level 3 Level 4 EDD

Special Instructions / Comments:

Soil samples have slight odor and discoloration

1) Received by:

Signature _____ Time _____

B. M. M. M. 7/23/01

Printed Name _____ Date _____

STL-CI

Company _____

2) Received by:

Signature _____ Time _____

Printed Name _____ Date _____

Company _____

3) Received by:

Signature _____ Time _____

Printed Name _____ Date _____

Company _____

+5106388404 ACC ENVIRONMENTAL

From **Analysis Request**

Proj.Mgr	David R. DeMent					TPH (EPA 8015, 8020/8021) <input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Oxygenates (8260B): <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Full Oxygenate List <input type="checkbox"/> MTBE <input type="checkbox"/> BTEX	Purgeable Halocarbons (HVOCS) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	SemiVolatiles GC/MS (EPA 8270)	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	<input type="checkbox"/> Pesticides (EPA 8081) <input type="checkbox"/> PCBs (EPA 8082)	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	<input type="checkbox"/> WET (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)	<input type="checkbox"/> Spec Cond. <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> 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
Company	ACC Environmental																				
Address	7977 Capwell Drive Oakland, CA 94621																				
Sampler (Signature)																					
Phone	(510) 638-8400 x 109		Fax: (510) 638-8404			Email: ddement@accenv.com															
Sample ID	Date	Time	Mat rix	Pres erv.																	
SB1-13.0	7/23/01	7:30	Soil	Coll	<input checked="" type="checkbox"/>																
SB1-15.5	↓	7:35	↓	↓	<input checked="" type="checkbox"/>																
SB2-8.0	↓	8:35	↓	↓	<input checked="" type="checkbox"/>																
SB2-13.0	↓	8:45	↓	↓	<input checked="" type="checkbox"/>																
SB1-W	7/23/01	7:50	Water	Hev/col	<input checked="" type="checkbox"/>																
SB3-W	↓	9:20	↓	↓	<input checked="" type="checkbox"/>																

Project Info.		Sample Receipt	
Project Name: <u>160 14th Street</u>	# of Containers:	Head Space:	Temp: <u>3.5°C</u>
Project#:	Temp:	Conforms to record:	Other
PO#:	Conforms to record:	Conforms to record:	Other
Credit Card#:	Conforms to record:	Conforms to record:	Other
T A T	Std 5 Day	72h	48h
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD	Special Instructions / Comments: <u>Soil samples have slight odor and discoloration</u>		

1) Relinquished by:

Signature _____ Time _____
David R. DeMent 7/23/01
Printed Name _____ Date _____
ACC Environmental
Company

1) Received by:

Signature _____ Time _____
B. Mowbray 7/23/01
Printed Name _____ Date _____
STL-CJ
Company

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

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

3) Relinquished by:

Signature _____ Time _____
Denise Harrington 7/23/01
Printed Name _____ Date _____
STL-CJ
Company

3) Received by:

Signature _____ Time _____
Denise Harrington 7/23/01
Printed Name _____ Date _____
STL-CJ
Company