

October 14, 2003

Gary Werkmeister
575 Walavista Avenue
Oakland, CA 94610

Alameda County
OCT 17 2003
Environmental Health

RE: Limited Subsurface Investigation Report
2201 West Street, Oakland, California
ACC Project No. 6766-001.00

Dear Ms. Werkmeister:

Enclosed please find two copies of the Limited Subsurface Investigation Report for 2201 West Street, Oakland, California. The purpose of this investigation was to: 1) characterize subsurface conditions and collect representative grab groundwater samples adjacent to the former underground storage tank (UST); 2) analyze water samples for suspect constituents of concern; and 3) prepare a report of findings to submit to the Alameda County Health Care Services Agency (ACHCSA).

ACC observed field indications of residual diesel impact in soil boring B3 advanced to the east of the former UST excavation but soil and grab groundwater analytical results indicate that residual impacts are relatively minor and weathered due to natural attenuation processes. Based on favorable findings of the site investigation, ACC is requesting that the ACHCSA close the case with no further action.

ACC will forward one copy of this report directly to Don Hwang at the ACHCSA for review.

If you have any questions regarding the report, please contact me at (510) 638-8400, extension 109.

Sincerely,



David R. DeMent, RG, REA II
Environmental Division Manager

/ejg:drd

Enclosures

cc: Mr. Don Hwang



**LIMITED
SUBSURFACE
INVESTIGATION
REPORT**

October 14, 2003

2201 West Street
Oakland, California

Prepared For:
Gary Werkmeister
575 Walavista Avenue
Oakland, CA 94610

OAKLAND ▪ SACRAMENTO
SEATTLE ▪ LOS ANGELES

ACC Project Number: 6766-001.00

SUBSURFACE INVESTIGATION REPORT

**2201 West Street
Oakland, California**

ACC Project No. 6766-001.00


Prepared for:

Gary Werkmeister
575 Walavista Avenue
Oakland, CA 94610

Alameda County
OCT 17 2003
Environmental Health

October 14, 2003

Prepared by:



Edward Giacometti
Staff Geologist

Reviewed by:



David R. DeMent, RG, REA II
Environmental Division Manager



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SUBSURFACE INVESTIGATION REPORT
2201 West Street
Oakland, California

1.0 INTRODUCTION

ACC Environmental Consultants Inc. (ACC) has prepared this Limited Subsurface Investigation Report at the request of Mr. Gary Werkmeister (Client). This report describes subsurface investigation work performed at 2201 West Street, Oakland, California (Site). The purpose of this investigation was to: 1) characterize subsurface conditions and collect representative grab groundwater samples adjacent to the former underground storage tank (UST); 2) analyze water samples for suspect constituents of concern; and 3) prepare a report of findings to pursue full regulatory closure.

The work performed consisted of: advancing three exploratory soil borings to total depths of 16 feet below ground surface (bgs); collecting representative soil and grab groundwater samples from the borings; and analyzing select samples for any constituents of concern at the Site.

2.0 BACKGROUND

In June 2002, AEI Consultants (AEI) removed one 300 gallon heating oil tank. Total petroleum hydrocarbons as diesel (TPHd) was reported in the confirmation soil sample collected at 9 feet below ground surface (bgs) at a concentration of 660 parts per million (ppm). At the direction of the Oakland Fire Services Agency (OFSA), the UST pit was overexcavated in July 2002. The final excavation size was 15 feet long by 6 feet wide by 13 feet deep and approximately 60.7 tons of soil was properly disposed offsite. Sidewall soil sample analytical results were largely nondetect and indicated that impacted soil was successfully remediated. A grab water sample from the final excavation indicated 3,700 parts per billion (ppb) TPHd with relatively minor concentrations of various volatile organic compounds (VOCs). Based on the reported TPHd and VOC impacts in groundwater, the OFSA referred the case to the Alameda County Health Care Services Agency (ACHCSA).

On July 25, 2003, ACC submitted a work plan to ACHCSA to perform a limited subsurface soil boring investigation in the vicinity of the former underground storage tanks at the subject site. In a letter dated September 2, 2003, Mr. Don Hwang of the ACHCSA approved the work plan which was submitted by ACC.

3.0 FIELD PROCEDURES

On September 17, 2003, ACC advanced three exploratory soil borings (B1 through B3) at select locations adjacent to the former UST. The locations of the borings were marked with white paint and Underground Service Alert was notified at least 48 hours prior to commencing work. An Alameda County Public Works Agency soil boring permit was obtained prior to performing the work. Each exploratory soil boring was advanced by continuously coring with a four-foot long, hydraulically driven, hollow-stem Geoprobe® sampling tool equipped with 2-inch inside-diameter clear acetate liners. Soil boring locations are illustrated on Figure 2.

The sampling probe and rods were cleaned prior to use and between sample drives by washing them with a trisodium phosphate and potable water solution, a potable water rinse, and distilled water rinse. Upon removal from the sampler, each recovered soil core in each soil boring was visually inspected and logged, and select depth intervals were screened with a ppbRAE photoionization detector (PID). The sample intervals were primarily logged to determine relative permeability and evaluate migration potential through the medium.

Following termination of each soil boring, ACC collected a grab groundwater sample by installing clean, 1-inch-diameter perforated well screen to a depth of 16 feet. Grab groundwater samples were retrieved using pre-cleaned stainless steel bailers. Grab groundwater samples were placed in laboratory-supplied 40-milliliter VOA vials without headspace and 0.5-Liter amber glass containers. Following collection, the sample containers were labeled, transferred to a pre-chilled insulated container, and then transported to STL San Francisco, a state certified laboratory, for analysis.

Drilling was performed under the direction of a staff geologist, and the subsurface materials in the borings were identified using visual and manual methods. Soils in each soil boring were logged and classified during drilling operations according to the Unified Soil Classification System (USCS). Lithologic logs of the soil borings are included as Appendix 1. Following drilling and sample collection, each boring location was abandoned with neat cement to just below the surface (2 to 3 inches). The surface of each boring location was completed with concrete to grade and colored to match the surrounding material.

4.0 FINDINGS

4.1 Subsurface Conditions

During the investigation, the surface was covered with asphalt and concrete pavement. Below the pavement, gravel baserock was encountered to a depth of approximately one foot bgs. Shallow native soils encountered consisted of brown, medium stiff, damp silt (ML) to a depth of approximately 4 feet bgs, underlain by a clayey silt grading to clay (CL) to a depth of approximately eight to nine feet bgs. The clays were underlain by a brown, soft to medium dense silty sand (SM) to the depth of investigation of 16 feet bgs. Saturated soil was noted at 13.5 feet bgs in silty sands containing lower silt content. Logged soils were fairly consistent in the three soil borings and consistent with previous subsurface investigation findings. Field indications of diesel impact as characteristic odor and elevated PID readings were noted in soil boring B3. ACC noted a slight petroleum hydrocarbon odor in soil at 10 feet bgs and a very slight petroleum hydrocarbon odor in groundwater. No similar field indications of diesel impact were noted in soil borings B1 and B2. Additional details are included in lithologic logs attached in Appendix 1.

4.2 Analytical Results

Grab groundwater samples were collected from all three soil borings and analyzed for TPHd by EPA method 8015M and VOCs by EPA method 8260B. Analytical results are summarized in Table 1. Copies of laboratory reports and chain of custody records are included in Appendix 2.

5.0 DISCUSSION

The primary goal of this investigation was to characterize soil and groundwater near the former UST. Soil boring B1 was located approximately 5 feet west of the former UST excavation, soil boring B2 was located approximately 5 feet east of the former UST excavation, and soil boring B3 was located approximately 5 feet south of the former UST excavation. ACC estimates the regional groundwater flow direction in this area is to the south.

Previous confirmation soil sampling indicated that petroleum hydrocarbon-impacted soil had successfully been excavated and removed from the Site. Due to the fact that field indications of petroleum hydrocarbon impact were only observed at the capillary fringe in soil boring B3, and the grab groundwater sample analytical result was minor, ACC did not analyze the soil sample collected at 11 feet bgs in soil boring B3.

5.1 Water

Grab groundwater samples collected in each respective soil boring, in saturated soil between 11.5 to 13 feet bgs, were analyzed for TPHd and VOCs. Analytical results reported a relatively minor TPHd concentration of 190 ppb in soil boring B3 only. The analytical results were flagged as not resembling diesel by having a non-diesel pattern (ndp). This is typically observed when residual hydrocarbons are weathered and degraded. No detectable BTEX concentrations were reported in any of the grab groundwater samples.

VOC concentrations were nondetect in the grab groundwater sample collected in soil boring B1. Chloroform only was detected at 17 parts per billion (ppb) in the grab groundwater sample collected in soil boring B2. Concentrations of Isopropylbenzene at 0.51 ppb and 1.3 ppb 1,2,4-Trimethylbenzene were detected in the grab groundwater sample collected in soil boring B3. The chloroform is suspect due to the lack of any other reportable VOCs in the sample and the Isopropylbenzene was reported just above its laboratory reporting limit of 0.50 ppb. The minor reported VOC concentrations are consistent with the 190 ppb diesel reported in soil boring B3.

6.0 CONCLUSIONS

Based on findings of this investigation, analytical results, and field observations, ACC has made the following conclusions regarding soil and groundwater conditions at the site:

- Impacted soils in the vicinity of the former UST appear to have been successfully remediated and residual soil and groundwater impacts appear to be localized in the immediate vicinity of soil boring B3 in fine-grained soils;
- The concentration of residual dissolved TPHd reported in groundwater at soil boring B3 is low, appears weathered, and indicates that no significant source of TPHd is present at the Site;
- Residual TPHd concentrations are likely continuing to decrease due to natural degradation;

- Findings of this subsurface investigation support approval for regulatory case closure in regards to the former UST and no additional site investigation is warranted.

Criteria summarized in the Regional Water Quality Control Board's December 8, 1995 Memorandum for low-risk fuel sites have been satisfied. On behalf of Mr. Gary Werkmeister, ACC recommends that full regulatory case closure as a low-risk soil or groundwater case is approved with no further action.

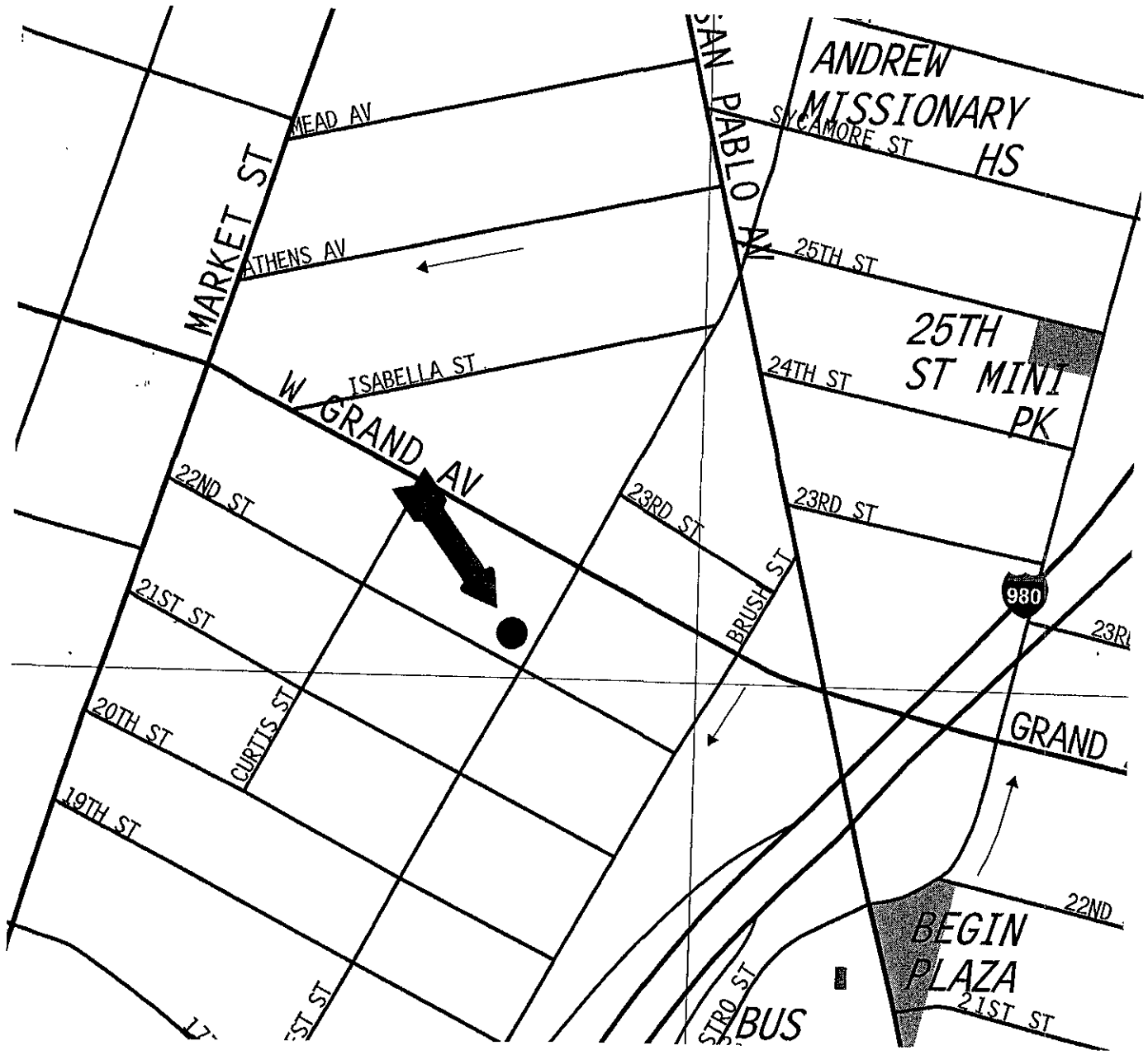
7.0 LIMITATIONS

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.

FIGURES



Source: Thomas Guide, Bay Area 2002

Title: 2201 West Street Oakland, California	
Figure Number: 1	Scale: None
Project No: 6766-001.00	Drawn By: EJG
A • C • C ENVIRONMENTAL CONSULTANTS	Date: 10/14/03
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	

2201 West Street
Continental Color
(vacant)

roll-up door

fence

B2 ○



○ B3

○
B1

former UST
overexcavation
(approximated)

22nd STREET

LEGEND

○ Proposed Boring Location
SB1



Source: AEI Consultants 8/02

Title: **Site Map (Revised)**
2201 West Street
Oakland, California

Figure Number: 2

Scale: 1" = 10'

Project No: 6766-001.00

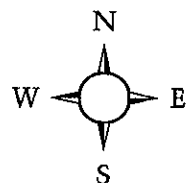
Drawn By: TRB

A • C • C

ENVIRONMENTAL
CONSULTANTS

Date: 7/29/03

7977 Capwell Drive, Suite 10
Oakland, California 94621
(510) 638-8400 Fax: (510) 638-840



TABLES

Table 1- Analytical Data Spreadsheet

Site Address: 2201 West Street, Oakland, CA

Project Number: 6766-001.00

Sampling Date: 9/17/03

Sample ID	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE	Chloroform	Isopropyl-benzene	1,2,4-Trimethylbenzene
B1-W	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<1.0	<0.50	<0.50
B2-W	<50	<0.50	<0.50	<0.50	<1.0	<5.0	17	<0.50	<0.50
B3-W	190	<0.50	<0.50	<0.50	<1.0	<5.0	<1.0	0.51	1.3

Notes:

Water results reported in micrograms per liter (ug/L), approximately equal to parts per billion (ppb)

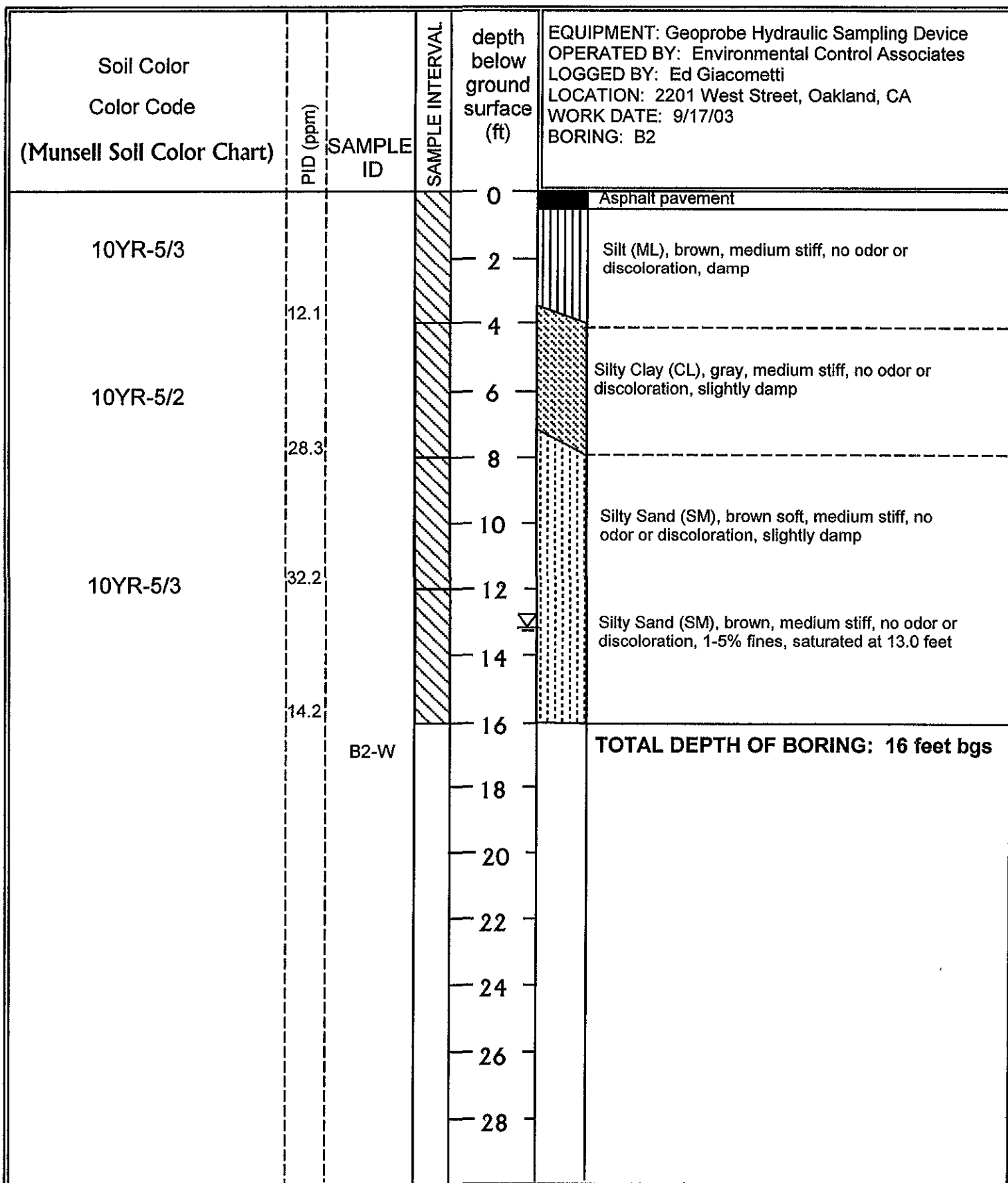
< analytical results under laboratory reporting limit

N/A = samples were not analyzed for this constituent

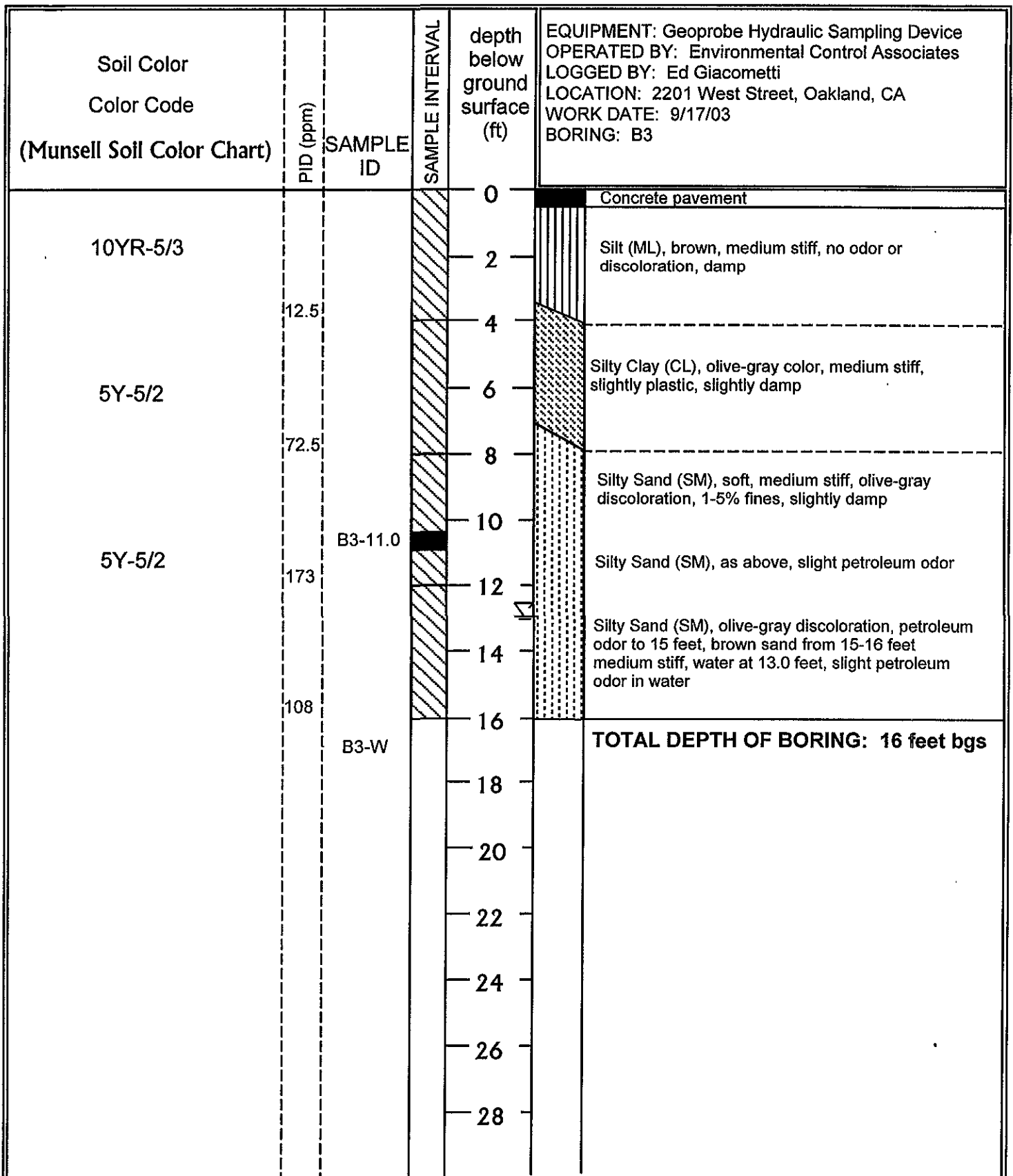
APPENDICES

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Hydraulic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: Ed Giacometti LOCATION: 2201 West Street, Oakland, CA WORK DATE: 9/17/03 BORING: B1
				0	Asphalt pavement
10YR-5/3				2	Silt (ML), brown, medium stiff, no odor or discoloration, damp
	11.0			4	Silty Clay (CL), gray, medium stiff, no odor or discoloration, slightly plastic, slightly damp
10YR-5/2				6	
	74.9			8	Silty Sand (SM), brown soft, medium stiff, 5-10% fines, no odor or discoloration, slightly damp
				10	
10YR-5/3	10.2			12	
				14	Silty Sand (SM), brown, medium stiff, no odor or discoloration, saturated at 13.5 feet, 1-5 % fines, low estimated permeability
	14.1			16	
		B1-W		18	
				20	
				22	
				24	
				26	
				28	
					TOTAL DEPTH OF BORING: 16 feet bgs

ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	Project Number 6743-001.00	Title: LOG OF BORING B1 2201 West Street Oakland, California
Date: 10/10/03		



ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	Project Number 6766-001.00	Title: LOG OF BORING B2 2201 West Street Oakland, California
	Date: 10/10/03	



ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	Project Number 6766-001.00 <hr/> Date: 10/10/03	Title: LOG OF BORING B3 2201 West Street Oakland, California
--	--	---

ACC Environmental Consultants

September 25, 2003

7977 Capwell Drive, Suite 100
Oakland, CA 94621

Attn.: Ed Glacometti

Project#: 6786-001.00

Project: 2001 West Street

Dear Mr. Glacometti,

Attached is our report for your samples received on 09/18/2003 14:05
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
11/02/2003 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@stl-inc.com

Sincerely,



Vincent Vancil
Project Manager

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn: Ed Giacometti

7977 Capwell Drive, Suite 100

Oakland, CA 94621

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

Project: 6766-001.00

2001 West Street

Received: 09/18/2003 14:05

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B1-W	09/17/2003 13:50	Water	1
B2-W	09/17/2003 14:30	Water	2
B3-W	09/17/2003 15:25	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/25/2003 14:32

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6766-001.00
2001 West Street

Received: 09/18/2003 14:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B1-W	Lab ID:	2003-09-0734 - 1
Sampled:	09/17/2003 13:50	Extracted:	9/24/2003 21:56
Matrix:	Water	QC Batch#:	2003/09/24-01-07

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	09/24/2003 21:56	
Acetone	ND	50	ug/L	1.00	09/24/2003 21:56	
Benzene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Bromodichloromethane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Bromobenzene	ND	1.0	ug/L	1.00	09/24/2003 21:56	
Bromochloromethane	ND	1.0	ug/L	1.00	09/24/2003 21:56	
Bromoform	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Bromomethane	ND	1.0	ug/L	1.00	09/24/2003 21:56	
2-Butanone(MEK)	ND	50	ug/L	1.00	09/24/2003 21:56	
n-Butylbenzene	ND	1.0	ug/L	1.00	09/24/2003 21:56	
sec-Butylbenzene	ND	1.0	ug/L	1.00	09/24/2003 21:56	
tert-Butylbenzene	ND	1.0	ug/L	1.00	09/24/2003 21:56	
Carbon disulfide	ND	5.0	ug/L	1.00	09/24/2003 21:56	
Carbon tetrachloride	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Chlorobenzene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Chloroethane	ND	1.0	ug/L	1.00	09/24/2003 21:56	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	09/24/2003 21:56	
Chloroform	ND	1.0	ug/L	1.00	09/24/2003 21:56	
Chloromethane	ND	1.0	ug/L	1.00	09/24/2003 21:56	
2-Chlorotoluene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
4-Chlorotoluene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Dibromochloromethane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	09/24/2003 21:56	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,1-Dichloropropane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	09/24/2003 21:56	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	09/24/2003 21:56	

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/25/2003 14:32

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6766-001.00
2001 West Street

Received: 09/18/2003 14:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B1-W	Lab ID:	2003-09-0734 - 1
Sampled:	09/17/2003 13:50	Extracted:	9/24/2003 21:56
Matrix:	Water	QC Batch#:	2003/09/24-01-07

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Ethylbenzene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	09/24/2003 21:56	
2-Hexanone	ND	50	ug/L	1.00	09/24/2003 21:56	
Isopropylbenzene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
p-isopropyltoluene	ND	1.0	ug/L	1.00	09/24/2003 21:56	
Methylene chloride	ND	5.0	ug/L	1.00	09/24/2003 21:56	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	09/24/2003 21:56	
Naphthalene	ND	1.0	ug/L	1.00	09/24/2003 21:56	
n-Propylbenzene	ND	1.0	ug/L	1.00	09/24/2003 21:56	
Styrene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Tetrachloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Toluene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	09/24/2003 21:56	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	09/24/2003 21:56	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Trichloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	09/24/2003 21:56	

Sewern Trent Laboratories, Inc.

09/25/2003 14:32

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6766-001.00
2001 West Street

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Sample ID:	B1-W	Lab ID:	2003-09-0734 - 1
Sampled:	09/17/2003 13:50	Extracted:	9/24/2003 21:56
Matrix:	Water	QC Batch#:	2003/09/24-01-07

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Vinyl acetate	ND	25	ug/L	1.00	09/24/2003 21:56	
Vinyl chloride	ND	0.50	ug/L	1.00	09/24/2003 21:56	
Total xylenes	ND	1.0	ug/L	1.00	09/24/2003 21:56	
Surrogate(s)						
4-Bromofluorobenzene	93.3	86-115	%	1.00	09/24/2003 21:56	
1,2-Dichloroethane-d4	95.1	76-114	%	1.00	09/24/2003 21:56	
Toluene-d8	102.3	88-110	%	1.00	09/24/2003 21:56	

Severn Trent Laboratories, Inc.

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2001 West Street

Received: 09/18/2003 14:05

Prep(s): 5030B	Test(s): 8260B
Sample ID: B2-W	Lab ID: 2003-09-0734 - 2
Sampled: 09/17/2003 14:30	Extracted: 9/24/2003 21:07
Matrix: Water	QC Batch#: 2003/09/24-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	09/24/2003 21:07	
Acetone	ND	50	ug/L	1.00	09/24/2003 21:07	
Benzene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Bromodichloromethane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Bromobenzene	ND	1.0	ug/L	1.00	09/24/2003 21:07	
Bromochloromethane	ND	1.0	ug/L	1.00	09/24/2003 21:07	
Bromoform	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Bromomethane	ND	1.0	ug/L	1.00	09/24/2003 21:07	
2-Butanone(MEK)	ND	50	ug/L	1.00	09/24/2003 21:07	
n-Butylbenzene	ND	1.0	ug/L	1.00	09/24/2003 21:07	
sec-Butylbenzene	ND	1.0	ug/L	1.00	09/24/2003 21:07	
tert-Butylbenzene	ND	1.0	ug/L	1.00	09/24/2003 21:07	
Carbon disulfide	ND	5.0	ug/L	1.00	09/24/2003 21:07	
Carbon tetrachloride	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Chlorobenzene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Chloroethane	ND	1.0	ug/L	1.00	09/24/2003 21:07	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	09/24/2003 21:07	
Chloroform	17	1.0	ug/L	1.00	09/24/2003 21:07	
Chloromethane	ND	1.0	ug/L	1.00	09/24/2003 21:07	
2-Chlorotoluene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
4-Chlorotoluene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Dibromochloromethane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	09/24/2003 21:07	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,1-Dichloropropane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	09/24/2003 21:07	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	09/24/2003 21:07	

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09/25/2003 14:32

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94586

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6766-001.00
2001 West Street

Received: 09/18/2003 14:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B2-W	Lab ID:	2003-09-0734 - 2
Sampled:	09/17/2003 14:30	Extracted:	9/24/2003 21:07
Matrix:	Water	QC Batch#:	2003/09/24-01-06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Ethylbenzene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	09/24/2003 21:07	
2-Hexanone	ND	50	ug/L	1.00	09/24/2003 21:07	
Isopropylbenzene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	09/24/2003 21:07	
Methylene chloride	ND	5.0	ug/L	1.00	09/24/2003 21:07	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	09/24/2003 21:07	
Naphthalene	ND	1.0	ug/L	1.00	09/24/2003 21:07	
n-Propylbenzene	ND	1.0	ug/L	1.00	09/24/2003 21:07	
Styrene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Tetrachloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Toluene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	09/24/2003 21:07	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	09/24/2003 21:07	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Trichloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	09/24/2003 21:07	

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Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Glacometti

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

Project: 6766-001.00
2001 West Street

Received: 09/18/2003 14:05

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B2-W	Lab ID:	2003-09-0734 - 2
Sampled:	09/17/2003 14:30	Extracted:	9/24/2003 21:07
Matrix:	Water	QC Batch#:	2003/09/24-01 06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Vinyl acetate	ND	25	ug/L	1.00	09/24/2003 21:07	
Vinyl chloride	ND	0.50	ug/L	1.00	09/24/2003 21:07	
Total xylenes	ND	1.0	ug/L	1.00	09/24/2003 21:07	
Surrogate(s)						
4-Bromofluorobenzene	102.7	86-115	%	1.00	09/24/2003 21:07	
1,2-Dichloroethane-d4	96.3	76-114	%	1.00	09/24/2003 21:07	
Toluene-d8	102.0	88-110	%	1.00	09/24/2003 21:07	

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 8766-001.00
2001 West Street

Received: 09/18/2003 14:05

Prep(s):	6030B	Test(s):	8260B
Sample ID:	B3-W	Lab ID:	2003-09-0734 - 3
Sampled:	09/17/2003 15:25	Extracted:	9/24/2003 21:43
Matrix:	Water	QC Batch#:	2003/09/24-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	09/24/2003 21:43	
Acetone	ND	50	ug/L	1.00	09/24/2003 21:43	
Benzene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Bromodichloromethane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Bromobenzene	ND	1.0	ug/L	1.00	09/24/2003 21:43	
Bromochloromethane	ND	1.0	ug/L	1.00	09/24/2003 21:43	
Bromoform	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Bromomethane	ND	1.0	ug/L	1.00	09/24/2003 21:43	
2-Butanone(MEK)	ND	50	ug/L	1.00	09/24/2003 21:43	
n-Butylbenzene	ND	1.0	ug/L	1.00	09/24/2003 21:43	
sec-Butylbenzene	ND	1.0	ug/L	1.00	09/24/2003 21:43	
tert-Butylbenzene	ND	1.0	ug/L	1.00	09/24/2003 21:43	
Carbon disulfide	ND	5.0	ug/L	1.00	09/24/2003 21:43	
Carbon tetrachloride	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Chlorobenzene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Chloroethane	ND	1.0	ug/L	1.00	09/24/2003 21:43	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	09/24/2003 21:43	
Chloroform	ND	1.0	ug/L	1.00	09/24/2003 21:43	
Chloromethane	ND	1.0	ug/L	1.00	09/24/2003 21:43	
2-Chlorotoluene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
4-Chlorotoluene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Dibromochloromethane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	09/24/2003 21:43	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,1-Dichloropropane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	09/24/2003 21:43	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	09/24/2003 21:43	

Severn Trent Laboratories, Inc.

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09/25/2003 14:32

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100

Oakland, CA 94621

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

Project: 6766-001.00

2001 West Street

Received: 09/18/2003 14:05

Prep(s): 6030B Test(s): 8260B
 Sample ID: B3-W Lab ID: 2003-09-0734 - 3
 Sampled: 09/17/2003 15:25 Extracted: 9/24/2003 21:43
 Matrix: Water QC Batch#: 2003/09/24-01 06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Ethylbenzene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	09/24/2003 21:43	
2-Hexanone	ND	50	ug/L	1.00	09/24/2003 21:43	
Isopropylbenzene	0.51	0.50	ug/L	1.00	09/24/2003 21:43	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	09/24/2003 21:43	
Methylene chloride	ND	5.0	ug/L	1.00	09/24/2003 21:43	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	09/24/2003 21:43	
Naphthalene	ND	1.0	ug/L	1.00	09/24/2003 21:43	
n-Propylbenzene	ND	1.0	ug/L	1.00	09/24/2003 21:43	
Styrene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Tetrachloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Toluene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	09/24/2003 21:43	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	09/24/2003 21:43	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Trichloroethene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	09/24/2003 21:43	

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STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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09/25/2003 14:32

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 838-8400 Fax: (510) 838-8404

Project: 6766-001.00
2001 West Street

Received: 09/18/2003 14:06

Prep(s): 5030B	Test(s): 8260B
Sample ID: B3-W	Lab ID: 2003-09-0734--3
Sampled: 09/17/2003 15:25	Extracted: 9/24/2003 21:43
Matrix: Water	QC Batch#: 2003/09/24-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	09/24/2003 21:43	
1,2,4-Trimethylbenzene	1.3	0.50	ug/L	1.00	09/24/2003 21:43	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Vinyl acetate	ND	25	ug/L	1.00	09/24/2003 21:43	
Vinyl chloride	ND	0.50	ug/L	1.00	09/24/2003 21:43	
Total xylenes	ND	1.0	ug/L	1.00	09/24/2003 21:43	
Surrogate(s)						
4-Bromofluorobenzene	102.8	86-115	%	1.00	09/24/2003 21:43	
1,2-Dichloroethane-d4	100.1	76-114	%	1.00	09/24/2003 21:43	
Toluene-d8	101.4	88-110	%	1.00	09/24/2003 21:43	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/25/2003 14:32

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn: Ed Giacometti

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 838-8400 Fax: (510) 838-8404

Project: 8786-001.00
2001 West Street

Received: 09/18/2003 14:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method: Blank

Water

QC Batch # 2003/09/24-01.06

MB: 2003/09/24-01.06-006

Date Extracted: 09/24/2003 14:20

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	09/24/2003 14:20	
Acetone	ND	50	ug/L	09/24/2003 14:20	
Benzene	ND	0.5	ug/L	09/24/2003 14:20	
Bromodichloromethane	ND	0.5	ug/L	09/24/2003 14:20	
Bromobenzene	ND	1.0	ug/L	09/24/2003 14:20	
Bromochloromethane	ND	1.0	ug/L	09/24/2003 14:20	
Bromoform	ND	0.5	ug/L	09/24/2003 14:20	
Bromomethane	ND	1.0	ug/L	09/24/2003 14:20	
2-Butanone(MEK)	ND	50	ug/L	09/24/2003 14:20	
n-Butylbenzene	ND	1.0	ug/L	09/24/2003 14:20	
sec-Butylbenzene	ND	1.0	ug/L	09/24/2003 14:20	
tert-Butylbenzene	ND	1.0	ug/L	09/24/2003 14:20	
Carbon disulfide	ND	5.0	ug/L	09/24/2003 14:20	
Carbon tetrachloride	ND	0.5	ug/L	09/24/2003 14:20	
Chlorobenzene	ND	0.5	ug/L	09/24/2003 14:20	
Chloroethane	ND	1.0	ug/L	09/24/2003 14:20	
2-Chloroethylvinyl ether	ND	5.0	ug/L	09/24/2003 14:20	
Chloroform	ND	1.0	ug/L	09/24/2003 14:20	
Chloromethane	ND	1.0	ug/L	09/24/2003 14:20	
2-Chlorotoluene	ND	0.5	ug/L	09/24/2003 14:20	
4-Chlorotoluene	ND	0.5	ug/L	09/24/2003 14:20	
Dibromochloromethane	ND	0.5	ug/L	09/24/2003 14:20	
1,2-Dichlorobenzene	ND	0.5	ug/L	09/24/2003 14:20	
1,3-Dichlorobenzene	ND	0.5	ug/L	09/24/2003 14:20	
1,4-Dichlorobenzene	ND	0.5	ug/L	09/24/2003 14:20	
1,3-Dichloropropane	ND	1.0	ug/L	09/24/2003 14:20	
2,2-Dichloropropane	ND	0.5	ug/L	09/24/2003 14:20	
1,1-Dichloropropene	ND	0.5	ug/L	09/24/2003 14:20	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/24/2003 14:20	
1,2-Dibromoethane	ND	0.5	ug/L	09/24/2003 14:20	

Severn Trent Laboratories, Inc.

09/25/2003 14:32

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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Volatile Organic Compounds by 8260B (Low Level)

AGC Environmental Consultants

Attn.: Ed Giacometti

7877 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6786-001.00
2001 West Street

Received: 09/18/2003 14:05

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/09/24-01.06-006

Water

Test(s): 8260B
QC Batch # 2003/09/24-01.06
Date Extracted: 09/24/2003 14:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Dibromomethane	ND	0.5	ug/L	09/24/2003 14:20	
Dichlorodifluoromethane	ND	0.5	ug/L	09/24/2003 14:20	
1,1-Dichloroethane	ND	0.5	ug/L	09/24/2003 14:20	
1,2-Dichloroethane	ND	0.5	ug/L	09/24/2003 14:20	
1,1-Dichloroethene	ND	0.5	ug/L	09/24/2003 14:20	
cis-1,2-Dichloroethene	ND	0.5	ug/L	09/24/2003 14:20	
trans-1,2-Dichloroethene	ND	0.5	ug/L	09/24/2003 14:20	
1,2-Dichloropropane	ND	0.5	ug/L	09/24/2003 14:20	
cis-1,3-Dichloropropene	ND	0.5	ug/L	09/24/2003 14:20	
trans-1,3-Dichloropropene	ND	0.5	ug/L	09/24/2003 14:20	
Ethylbenzene	ND	0.5	ug/L	09/24/2003 14:20	
Hexachlorobutadiene	ND	1.0	ug/L	09/24/2003 14:20	
2-Hexanone	ND	50	ug/L	09/24/2003 14:20	
Isopropylbenzene	ND	0.5	ug/L	09/24/2003 14:20	
p-Isopropyltoluene	ND	1.0	ug/L	09/24/2003 14:20	
Methylene chloride	ND	5.0	ug/L	09/24/2003 14:20	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	09/24/2003 14:20	
Naphthalene	ND	1.0	ug/L	09/24/2003 14:20	
n-Propylbenzene	ND	1.0	ug/L	09/24/2003 14:20	
Styrene	ND	0.5	ug/L	09/24/2003 14:20	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	09/24/2003 14:20	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	09/24/2003 14:20	
Tetrachloroethene	ND	0.5	ug/L	09/24/2003 14:20	
Toluene	ND	0.5	ug/L	09/24/2003 14:20	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/24/2003 14:20	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/24/2003 14:20	
1,1,1-Trichloroethane	ND	0.5	ug/L	09/24/2003 14:20	
1,1,2-Trichloroethane	ND	0.5	ug/L	09/24/2003 14:20	
Trichloroethene	ND	0.5	ug/L	09/24/2003 14:20	
Trichlorofluoromethane	ND	1.0	ug/L	09/24/2003 14:20	
Trichlorotrifluoroethane	ND	0.5	ug/L	09/24/2003 14:20	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/25/2003 14:32

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn: Ed Giacometti

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

Project: 6766-001.00
2001 West Street

Received: 09/18/2003 14:05

Batch QC Report

Prep(s): 6030B

Method: Blank

MB: 2003/09/24-01.06-006

Water

Test(s): 8260B

QC Batch #: 2003/09/24-01.06

Date Extracted: 09/24/2003 14:20

Compound	Conc.	RL	Unit	Analyzed	Flag
1,2,4-Trimethylbenzene	ND	0.5	ug/L	09/24/2003 14:20	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	09/24/2003 14:20	
Vinyl acetate	ND	25	ug/L	09/24/2003 14:20	
Vinyl chloride	ND	0.5	ug/L	09/24/2003 14:20	
Total xylenes	ND	1.0	ug/L	09/24/2003 14:20	
Surrogates(s)					
4-Bromofluorobenzene	107.6	86-115	%	09/24/2003 14:20	
1,2-Dichloroethane-d4	103.4	76-114	%	09/24/2003 14:20	
Toluene-d8	105.6	88-110	%	09/24/2003 14:20	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/25/2003 14:32

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6766-001.00
2001 West Street

Received: 09/18/2003 14:05

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/09/24-01.07-004

Water

Test(s): 8260B
QC Batch #: 2003/09/24-01.07
Date Extracted: 09/24/2003 12:36

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	09/24/2003 12:36	
Acetone	ND	50	ug/L	09/24/2003 12:36	
Benzene	ND	0.5	ug/L	09/24/2003 12:36	
Bromodichloromethane	ND	0.5	ug/L	09/24/2003 12:36	
Bromobenzene	ND	1.0	ug/L	09/24/2003 12:36	
Bromochloromethane	ND	1.0	ug/L	09/24/2003 12:36	
Bromoform	ND	0.5	ug/L	09/24/2003 12:36	
Bromomethane	ND	1.0	ug/L	09/24/2003 12:36	
2-Butanone(MEK)	ND	50	ug/L	09/24/2003 12:36	
n-Butylbenzene	ND	1.0	ug/L	09/24/2003 12:36	
sec-Butylbenzene	ND	1.0	ug/L	09/24/2003 12:36	
tert-Butylbenzene	ND	1.0	ug/L	09/24/2003 12:36	
Carbon disulfide	ND	5.0	ug/L	09/24/2003 12:36	
Carbon tetrachloride	ND	0.5	ug/L	09/24/2003 12:36	
Chlorobenzene	ND	0.5	ug/L	09/24/2003 12:36	
Chloroethane	ND	1.0	ug/L	09/24/2003 12:36	
2-Chloroethylvinyl ether	ND	5.0	ug/L	09/24/2003 12:36	
Chloroform	ND	1.0	ug/L	09/24/2003 12:36	
Chloromethane	ND	1.0	ug/L	09/24/2003 12:36	
2-Chlorotoluene	ND	0.5	ug/L	09/24/2003 12:36	
4-Chlorotoluene	ND	0.5	ug/L	09/24/2003 12:36	
Dibromochloromethane	ND	0.5	ug/L	09/24/2003 12:36	
1,2-Dichlorobenzene	ND	0.5	ug/L	09/24/2003 12:36	
1,3-Dichlorobenzene	ND	0.5	ug/L	09/24/2003 12:36	
1,4-Dichlorobenzene	ND	0.5	ug/L	09/24/2003 12:36	
1,3-Dichloropropane	ND	1.0	ug/L	09/24/2003 12:36	
2,2-Dichloropropane	ND	0.5	ug/L	09/24/2003 12:36	
1,1-Dichloropropene	ND	0.5	ug/L	09/24/2003 12:36	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/24/2003 12:36	
1,2-Dibromoethane	ND	0.5	ug/L	09/24/2003 12:36	
Dibromomethane	ND	0.5	ug/L	09/24/2003 12:36	

Severn Trent Laboratories, Inc.

09/25/2003 14:32

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404Project: 6766-001.00
2001 West Street

Received: 09/18/2003 14:05

Batch QC Report

Prep(s): 5030B
Method: Blank
MB: 2003/09/24-01.07-004

Water

Test(s): 8260B
QC Batch #: 2003/09/24-01.07
Date Extracted: 09/24/2003 12:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	0.5	ug/L	09/24/2003 12:36	
1,1-Dichloroethane	ND	0.5	ug/L	09/24/2003 12:36	
1,2-Dichloroethane	ND	0.5	ug/L	09/24/2003 12:36	
1,1-Dichloroethene	ND	0.5	ug/L	09/24/2003 12:36	
cis-1,2-Dichloroethene	ND	0.5	ug/L	09/24/2003 12:36	
trans-1,2-Dichloroethene	ND	0.5	ug/L	09/24/2003 12:36	
1,2-Dichloropropane	ND	0.5	ug/L	09/24/2003 12:36	
cis-1,3-Dichloropropene	ND	0.5	ug/L	09/24/2003 12:36	
trans-1,3-Dichloropropene	ND	0.5	ug/L	09/24/2003 12:36	
Ethylbenzene	ND	0.5	ug/L	09/24/2003 12:36	
Hexachlorobutadiene	ND	1.0	ug/L	09/24/2003 12:36	
2-Hexanone	ND	50	ug/L	09/24/2003 12:36	
Isopropylbenzene	ND	0.5	ug/L	09/24/2003 12:36	
p-Isopropyltoluene	ND	1.0	ug/L	09/24/2003 12:36	
Methylene chloride	ND	5.0	ug/L	09/24/2003 12:36	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	09/24/2003 12:36	
Naphthalene	ND	1.0	ug/L	09/24/2003 12:36	
n-Propylbenzene	ND	1.0	ug/L	09/24/2003 12:36	
Styrene	ND	0.5	ug/L	09/24/2003 12:36	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	09/24/2003 12:36	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	09/24/2003 12:36	
Tetrachloroethene	ND	0.5	ug/L	09/24/2003 12:36	
Toluene	ND	0.5	ug/L	09/24/2003 12:36	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/24/2003 12:36	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/24/2003 12:36	
1,1,1-Trichloroethane	ND	0.5	ug/L	09/24/2003 12:36	
1,1,2-Trichloroethane	ND	0.5	ug/L	09/24/2003 12:36	
Trichloroethene	ND	0.5	ug/L	09/24/2003 12:36	
Trichlorofluoromethane	ND	1.0	ug/L	09/24/2003 12:36	
Trichlorotrifluoroethane	ND	0.5	ug/L	09/24/2003 12:36	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	09/24/2003 12:36	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/25/2003 14:32

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Glacometti

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

Project: 6766-001.00
2001 West Street

Received: 09/18/2003 14:05

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/09/24-01.07-004

Water

Test(s): 8260B
QC Batch #: 2003/09/24-01.07
Date Extracted: 09/24/2003 12:36

Compound	Conc.	RL	Unit	Analyzed	Flag
1,3,5-Trimethylbenzene	ND	0.5	ug/L	09/24/2003 12:36	
Vinyl acetate	ND	25	ug/L	09/24/2003 12:36	
Vinyl chloride	ND	0.5	ug/L	09/24/2003 12:36	
Total xylenes	ND	1.0	ug/L	09/24/2003 12:36	
Surrogates(s)					
4-Bromofluorobenzene	106.4	86-115	%	09/24/2003 12:36	
1,2-Dichloroethane-d4	89.7	76-114	%	09/24/2003 12:36	
Toluene-d8	108.7	88-110	%	09/24/2003 12:36	

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6766-001.00
2001 West Street

Received: 09/18/2003 14:05

Batch QC Report

Prep(s): 8030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch #: 2003/09/24-01.06

LCS: 2003/09/24-01.06-003

Extracted: 09/24/2003

Analyzed: 09/24/2003 12:34

LCSD: 2003/09/24-01.06-004

Extracted: 09/24/2003

Analyzed: 09/24/2003 13:10

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.0	22.5	20.0	115.0	112.5	2.2	69-129	20		
Chlorobenzene	22.4	21.9	20.0	112.0	109.5	2.3	61-121	20		
1,1-Dichloroethene	19.6	18.7	20.0	98.0	93.5	4.7	65-125	20		
Toluene	21.6	21.0	20.0	108.0	105.0	2.8	70-130	20		
Trichloroethene	20.4	19.6	20.0	102.0	98.0	4.0	74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	523	530	500	104.6	106.0		86-115			
1,2-Dichloroethane-d4	525	526	500	105.0	105.2		76-114			
Toluene-d8	521	522	500	104.2	104.4		88-110			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1066 * www.stl-inc.com * CA DHS ELAP# 2496

09/25/2003 14:32

Volatile Organic Compounds by 8260B (Low Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100

Oakland, CA 94621

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

Project: 6766-001.00

2001 West Street

Received: 09/18/2003 14:05

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2003/09/24-01.07

LCS 2003/09/24-01.07-002

Extracted: 09/24/2003

Analyzed: 09/24/2003 11:45

LCSD 2003/09/24-01.07-003

Extracted: 09/24/2003

Analyzed: 09/24/2003 12:11

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	18.7	19.9	20.0	93.5	99.5	6.2	69-129	20		
Chlorobenzene	17.7	18.2	20.0	88.5	91.0	2.8	61-121	20		
1,1-Dichloroethene	16.6	16.3	20.0	83.0	81.5	1.8	65-125	20		
Toluene	19.0	20.1	20.0	95.0	100.5	5.6	70-130	20		
Trichloroethene	16.6	17.4	20.0	83.0	87.0	4.7	74-134	20		
Surrogates(s)										
4-Bromofluorobenzene	458	466	500	91.6	93.2		86-115			
1,2-Dichloroethane-d4	457	481	500	91.4	96.2		76-114			
Toluene-d8	492	511	500	98.4	102.2		88-110			

Diesel

ACC Environmental Consultants

Attn.: Ed Glacometti

7977 Capwell Drive, Suite 100

Oakland, CA 94621

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

Project: 6766-001.00

2001 West Street

Received: 09/18/2003 14:05

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B1-W	09/17/2003 13:50	Water	1
B2-W	09/17/2003 14:30	Water	2
B3-W	09/17/2003 15:25	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/25/2003 16:22

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6786-001.00
2001 West Street

Received: 09/18/2003 14:05

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: B1-W Lab ID: 2003-09-0734 - 1
Sampled: 09/17/2003 13:50 Extracted: 9/22/2003 11:32
Matrix: Water QC Batch#: 2003/09/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	09/24/2003 07:16	
<i>Surrogate(s)</i> o-Terphenyl	78.1	60-130	%	1.00	09/24/2003 07:16	

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 838-8400 Fax: (510) 838-8404

Project: 6766-001.00
2001 West Street

Received: 09/18/2003 14:05

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: B2-W	Lab ID: 2003-09-0734 - 2
Sampled: 09/17/2003 14:30	Extracted: 9/22/2003 11:32
Matrix: Water	QC Batch#: 2003/09/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	09/24/2003 07:56	
<i>Surrogate(s)</i> o-Terphenyl	79.1	60-130	%	1.00	09/24/2003 07:56	

Diesel

ACC Environmental Consultants

Attn.: Ed Glacometti

7977 Capwell Drive, Suite 100

Oakland, CA 94621

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

Project: 6766-001.00

2001 West Street

Received: 09/18/2003 14:05

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: B3-W	Lab ID: 2003-09-0734 - 3
Sampled: 09/17/2003 15:25	Extracted: 9/22/2003 11:32
Matrix: Water	QC Batch#: 2003/09/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	190	50	ug/L	1.00	09/24/2003 08:36	ndp
<i>Surrogate(s)</i> o-Terphenyl	87.2	60-130	%	1.00	09/24/2003 08:36	

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6766-001.00
2001 West Street

Received: 09/18/2003 14:05

Batch QC Report

Prep(s): 3510/8015M

Method: Blank

MB: 2003/09/22-02.10-001

Water

Test(s): 8015M

QC Batch #: 2003/09/22-02.10

Date Extracted: 09/22/2003 11:32

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	09/24/2003 02:23	
Surrogates(s) o-Terphenyl	77.7	60-130	%	09/24/2003 02:23	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/25/2003 16:22

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100

Oakland, CA 94621

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

Project: 6766-001.00

2001 West Street

Received: 09/18/2003 14:05

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2003/09/22-02.10

LCS 2003/09/22-02.10-002

Extracted: 09/22/2003

Analyzed: 09/24/2003 02:54

LCSD 2003/09/22-02.10-003

Extracted: 09/22/2003

Analyzed: 09/24/2003 03:25

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	793	775	1000	79.3	77.5	2.3	60-130	25		
Surrogates(s) o-Terphenyl	19.4	17.2	20.0	97.1	85.8		60-130	0		

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/25/2003 16:22

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

7877 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 838-8400 Fax: (510) 838-8404

Project: 0700-001.00

2001 West Street

Received: 08/18/2003 14:05

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1098 * www.stl-inc.com * CA DHS ELAP# 2496

08/25/2003 10:22

2003-09-0734

Report To **Analysis Request**

Attn: ED GIACOMETTI
Company: ACC ENVIRONMENTAL CONSULTANTS
Address: 7977 CAPWELL DRIVE, OAKLAND, CA
P: (510) 638-8400 x 114 E: egiacometti@accenv.com
Bill To: ACC ENVIRONMENTAL Sampled By: Ed Giacometti
Attn: ED Phone ext: 114

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Tests EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PCBs	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	W.E.T (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O) <input type="checkbox"/> <input type="checkbox"/>	Spec Cond <input type="checkbox"/> Alkalinity <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				Number of Containers						
B1-W	9/17/03	13:50	H ₂ O	Hcy/Cold						X																					5
B2-W	9/17/03	14:30	H ₂ O	Hcy/Cold						X																					5
B8-W	9/17/03	15:25	H ₂ O	Hcy/Cold						X																					4
B3-11.0	9/17/03	15:05	S	Cold																											1

Project Info.
Project Name: 201 West Street
Project#: 6746-001-00
PO#:
Credit Card#:
T Std 5 Day 72h 48h 24h

Sample Receipt
of Containers:
Head Space:
Temp: 7.8°C
Conforms to record:
Other:
Report: Routine Level 3 Level 4 EDD State Tank Fund EDF Global ID

1) Relinquished by: Ed Giacometti
Signature: [Signature] Title:
ED GIACOMETTI 9/18/03
Printed Name Date
ACC ENVIRONMENTAL CONSULTANTS
Company

1) Received by: [Signature]
Signature: [Signature] Time:
KON HEMAN 9/18/03
Printed Name Date
WORLD COURIER
Company

2) Relinquished by: [Signature]
Signature: [Signature] Time:
KON HEMAN 9/18/03
Printed Name Date
WORLD COURIER
Company

2) Received by: [Signature]
Signature: [Signature] Time:
M. VILLANUEVA 9/18/03
Printed Name Date
STL 92
Company

3) Relinquished by: [Signature]
Signature: [Signature] Time:
KON HEMAN 9/18/03
Printed Name Date
WORLD COURIER
Company

3) Received by: [Signature]
Signature: [Signature] Time:
M. VILLANUEVA 9/18/03
Printed Name Date
STL 92
Company

STL San Francisco

Sample Receipt Checklist

Submission #: 2003- 09 - 0734

Checklist completed by: (Initials) DSH Date: / /03

Courier name: STL San Francisco Client WORLD

Custody seals intact on shipping container/samples Yes ___ No ___ Not Present

Chain of custody present? Yes No ___

Chain of custody signed when relinquished and received? Yes No ___

Chain of custody agrees with sample labels? Yes No ___

Samples in proper container/bottle? Yes No ___

Sample containers intact? Yes No ___

Sufficient sample volume for indicated test? Yes No ___

All samples received within holding time? Yes No ___

Container/Temp Blank temperature in compliance (4° C ± 2)? Temp: 78°C Yes ___ No

Ice Present Yes No ___

Water - VOA vials have zero headspace? No VOA vials submitted ___ Yes No ___

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt? Yes No

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc -Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below;

Comments: 1 BLUE ICE

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (Initials) _____ Date: _____ / _____ /03

Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

