

October 3, 2003

20 89

Mr. Kelly Engineer
All Star Inc.
1791 Pine Street
Concord, California 94620

Alameda County
OCT 03 2003
Environmental Health

RE: Limited Subsurface Soil Boring Investigation
3820 San Leandro Street, Oakland, California
ACC Project Number: 6651-001.01

Dear Mr. Engineer:

Enclosed please find two copies of the Subsurface Investigation Report conducted at 3820 San Leandro Street, Oakland, California (Site). The work described here is designed to address the request of the Alameda County Health Care Services Agency (ACHCSA) for additional subsurface investigation. A copy of this report will be forwarded to the ACHCSA for review.

Additional subsurface investigation indicates that gasoline and diesel fuel impacts in soil and groundwater are greater than originally believed and while impacts are largely confined to the Site, the potential exists for offsite migration. Additional downgradient characterization will likely be requested by the ACHCSA. We recommend immediately pursuing acceptance to the California Underground Storage Tank Cleanup Fund.

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

LIMITED SUBSURFACE INVESTIGATION REPORT

**3820 San Leandro Street
Oakland, California**

ACC Project Number: 6651-001.01

Prepared for:

Mr. Kelly Engineer
All Star Inc.
1791 Pine Street
Concord, California 94620

Alameda County
PCT 03-2003
Environmental Health

October 3, 2003

Prepared by :



Edward Giacometti
Staff Geologist

Reviewed by:



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

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LIMITED SUBSURFACE INVESTIGATION REPORT
3820 San Leandro Street
Oakland, California

1.0 INTRODUCTION

This Subsurface Investigation Report has been prepared by ACC Environmental Consultants Inc., (ACC) at the request of Mr. Kelly Engineer of All Star, Inc. (Client). This report describes additional subsurface investigation work performed at the subject property 3820 San Leandro Street, Oakland, California (Site). The purpose of this limited subsurface investigation was to: characterize groundwater downgradient of the Site and attempt to determine the horizontal extent of petroleum hydrocarbon-impacted groundwater; log soils and prepare geologic cross sections to evaluate the migration potential in the first encountered water-bearing zone; and prepare a report of findings for submission to the Alameda County Health Care Services Agency (ACHCSA), the overseeing regulatory agency.

2.0 BACKGROUND

The Site consists of a gasoline and diesel fueling station (Guy's Diesel) located along San Leandro Street in Oakland, California (Figure 1). In his letter dated June 12, 2000, Mr. Barney Chan of the ACHCSA requested that groundwater monitoring and sampling be performed at the Site, and that the groundwater samples be analyzed for total petroleum hydrocarbons as gasoline (TPHg) and diesel (TPHd), benzene, toluene, ethylbenzene and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE). In addition, one groundwater sample was analyzed for all fuel oxygenates in accordance with regulations recently enacted by the Regional Water Quality Control Board (RWQCB).

ACC understands that American Consulting Remediation and Construction (ACRC) removed two diesel and two gasoline underground storage tanks (USTs) in January 1998. Analytical results of verification soil samples reported TPHg concentrations ranging from 34 to 2,600 parts per million (ppm), TPHd concentrations ranging from 11 to 3,700 ppm, benzene concentrations ranging from 0.11 to 34 ppm, and various concentrations of toluene, ethylbenzene, and xylenes. Soils generated during UST excavation were sampled and profiled into Forward Landfill in Stockton, California.

Following UST removal and site restoration, Brunsing Associates, Inc. (Brunsing) conducted a soil boring investigation and installed groundwater monitoring wells in July 1998. Findings of this work is summarized in Brunsing's August 10, 1998 Soil and Groundwater Investigation Report, prepared for Client. Brunsing advanced six exploratory soil borings investigation and installed three groundwater monitoring wells to 20 feet below ground surface (bgs). TPHg, BTEX, and TPHd were reported at various concentrations in the majority of the soil samples but soil sample results in samples collected at eleven feet bgs or deeper are suspect due to proximity to first-encountered groundwater.

ACC performed periodic groundwater sampling at the Site in September 2000, April and July 2001, and January and March 2003. Analytical results from the groundwater samples are summarized in Table 1. Groundwater flow directions and gradients are summarized in Table 2.

TABLE 1 - GROUNDWATER SAMPLE ANALYTICAL RESULTS

Sample ID	Date	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-1	07/06/98	4,100	< 100	36	53	< 5.0	20	80
	09/10/00	1,000 ^g	1,800 ^{ndp}	4.8	< 0.50	6.2	1.2	< 5.0
	04/10/01	1,100	N/A	12	7.7	< 2.5	< 2.5	73
	07/17/01	920	320 ^{ndp}	6.2	1.1	< 0.50	< 0.50	49
	01/15/03	360 ^g	86 ^{ndp}	5.5	< 0.50	4.3	1.3	19
	04/17/03	< 50	< 50	< 0.50	< 0.50	< 0.50	< 1.0	11
MW-2	07/06/98	6,400	< 100	190	14	13	12	210
	09/10/00	760 ^g	270 ^{edr}	19	< 0.50	< 0.50	< 0.50	110
	04/10/01	320	N/A	3.6	1.1	1.2	0.79	< 5.0
	07/17/01	440 ^g	68 ^{ndp}	6.0	< 0.50	6.2	< 0.50	< 5.0
	01/15/03	750 ^g	250 ^{ndp}	13	< 0.50	< 0.50	< 0.50	78
	04/17/03	180	120	< 0.50	< 0.50	< 0.50	< 1.0	8.1
MW-3	07/06/98	36,000	< 100	6,700	72	6.2	530	13,000
	09/10/00	20,000 ^g	4,200 ^{ndp}	9,200	70	710	79	6,400
	04/10/01	15,000	N/A	4,500	27	320	140	8,800
	07/17/01	28,000 ^g	8,000 ^{ndp}	7,000	< 50	270	75	15,000
	01/15/03	40,000 ^g	11,000 ^{ndp}	10,000	110	680	210	20,000
	04/17/03	39,000	3,200 ^{ndp}	11,000	< 100	870	< 200	34,000

Notes: µg/L = micrograms per liter (approximately equivalent to parts per billion)
 < Indicates the sample tested below the indicated laboratory reporting limit
 g = hydrocarbon reported does not match the laboratory's gasoline standard
 edr = hydrocarbon is in the early diesel range and does not match the laboratory's diesel standard
 ndp = hydrocarbon reported does not match the laboratory diesel standard
 N/A = sample not analyzed for this constituent

TABLE 2 - GROUNDWATER GRADIENT AND FLOW DIRECTION

Date Monitored	Gradient (foot/foot)	Direction
07/06/98	0.040	South
09/10/00	N/A	N/A
04/10/01	0.038	South
07/17/01	0.020	East
01/15/03	0.038	South
04/17/03	0.050	South

On May 1, 2003, ACC submitted a work plan to the ACHCSA to advance exploratory soil borings to delineate the extent of contamination at the Site. ACC resubmitted the work plan on July 1, 2003 after reviewing and incorporating technical comments from a letter from Mr. Chan of the ACHCSA dated May 8, 2003. Mr. Chan then verbally approved the work plan prior to ACC performing field activities.

3.0 FIELD PROCEDURES

On August 6, 2003, ACC advanced eight exploratory soil borings designated B9 through B16 at select locations in the vicinity of the former onsite USTs (Figure 2). Soil boring locations were marked with white paint and Underground Service Alert was notified at least 48 hours prior to commencing work. A soil borings permit was obtained from Alameda County Public Works Agency (ACPWA), prior to drilling activities, a copy of which is included in Appendix 2.

The eight soil borings were continuously cored and advanced using a four-foot long, hydraulically driven, truck-mounted Geoprobe® sampling tool equipped with 2-inch inside-diameter clear acetate liners. The sampling probe and rods were pre-cleaned prior to use and between sample drives by washing them with a trisodium phosphate and potable water solution, a potable water rinse, and distilled water rinse. Upon removal from the sampler, each recovered soil core was visually inspected and logged. The sample intervals were primarily logged to determine relative permeability and evaluate mitigation potential at that soil boring location.

Soil samples were collected and analyzed from soil borings B9 through B12 and B14. The soil samples were collected with clear-acetate liners, capped with Teflon® tape and tight-fitting plastic end caps. Following collection, the samples were labeled, transferred to a pre-chilled insulated container, and then transported to STL San Francisco, (STL-SF), a state-certified laboratory for analysis.

Grab groundwater samples were collected in soil borings B9, B10, B13 and B16 by advancing the probe into the water bearing formation and retrieving the water from the probe with either a new, disposable 0.5-inch-diameter bailer or new polyethylene tubing equipped with a check-ball. Grab groundwater samples were collected in 40-milliliter VOA vials without headspace and one liter amber liter bottles. ACC attempted to collect grab groundwater samples in soil borings B11, B12, B14, and B15 but was unsuccessful. Loss of a sampling probe made collection of a grab groundwater in soil boring B12 impossible. Groundwater was not initially encountered in soil borings B11, B13, B14, and B15 and one-inch-diameter perforated casing was installed in each soil boring, left overnight, and checked the following day. Only casing in soil boring B13 contained sufficient water for TPH analysis and TPHd analysis was performed using a low sample volume method. Soil boring B15 was advanced with a Geoprobe® Hydropunch tool only to a depth of 22 feet bgs. When no water was encountered, the tool was removed, a new temporary tip installed, and the probe was advanced to 28 feet. No water was encountered from 22 to 28 feet bgs and the soil boring was abandoned.

Drilling was performed under the direction of an ACC Staff Geologist, and the subsurface materials in the borings were identified using visual and manual methods. Soils in borings B9 through B16 were logged and classified during drilling operations according to the Unified Soil Classification System (USCS), with lithologic logs included as Appendix 2.

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 if needed.

4.0 FINDINGS

4.1 Subsurface Conditions

The surface of the area of investigation was covered with concrete or asphalt pavement and underlain by baserock and associated fill materials to an approximate depth of 1 foot bgs. Soils consisted primarily of slightly to moderately plastic, medium stiff, uniform silts and clays to depths ranging from 10 to 30 feet bgs. A saturated sandy silt zone of varying thickness and continuity was observed in borings B9, B10, and B16, from approximately 10 to 29 feet bgs. Characteristic gasoline odor was observed in grab groundwater samples collected from borings B9, B10, and B16. Additional details are included in soil boring logs included in Appendix 2.

4.2 Analytical Results

Soil boring locations were chosen based on accessibility and their downgradient location relative to the former and existing UST location. Soil was screened for field indications of petroleum hydrocarbon impact and selected representative soil samples were prepared for analysis. All soil and grab groundwater samples were analyzed for constituents of concern as TPHd, TPHg, BTEX, and MTBE by EPA Method 8260B.

Soil and grab groundwater sample analytical results are summarized in Tables 3 and 4 located in Appendix 3, along with copies of laboratory reports and chain of custody records.

5.0 DISCUSSION

The primary goals of this additional site characterization work were: 1) to further characterize suspect soil impacts adjacent to the current and former USTs; 2) to further characterize the water-bearing zone for migration potential downgradient of the source area; and 3) obtain additional downgradient groundwater data for purposes of determining the extent of impact.

5.1 Soil

Continuously-logged exploratory soil borings indicate that soil conditions varied considerably with location. Silts and clays are generally present to 15 feet bgs, which are underlain by clayey sands. The saturated clayey sands are underlain by more silty clays. Generally, groundwater was observed in the clayey sand zones below 15 feet bgs. Saturated soils are of varying thickness and horizontal continuity depending on their respective depth and location.

Soil samples collected from B9, B10, B11, and B16 demonstrated some field indications of TPHg impact above the first encountered groundwater zone. Analytical results for these soil samples were reported above laboratory detection limits.

5.2 Groundwater

Groundwater was encountered at varying depths ranging from 10 to 29 feet bgs in soil borings B9, B10, B13, and B16. These depths corresponded to a clayey sand zone that appeared to be confined to varying degrees.

Traces of petroleum concentrations were reported in all four grab groundwater samples. Petroleum hydrocarbon impact was observed in the groundwater sample retrieved from soil borings B9, B10, and B16. These soil borings were located on the subject property. The laboratory results from these samples as well as the groundwater sample from boring B13 were reported well above the laboratory gasoline standard. Free-phase floating product or significantly impacted soil is suspected in the vicinity of soil borings B10 and B16. MTBE concentrations ranged from 28 parts per billion (ppb) in soil boring B13 to 40,000 ppb in soil boring B10.

ACC attempted to collect a grab groundwater sample from soil borings B11, B14, and B15, but no water was encountered to depths of 20 to 30 feet bgs. ACC believes groundwater in the area is confined and migrating within relatively thin sand stringers. This would explain the difficulty in locating groundwater. ACC was also unable to collect a grab groundwater sample in soil boring B12 because the core sampling implement was lost in the boring.

6.0 CONCLUSIONS

Based on previously obtained onsite groundwater monitoring results, and findings and observations made during this additional site characterization work, ACC concludes the following:

- Reported TPH concentrations in the grab groundwater sample collected in downgradient soil boring B13 are relatively low, and migration potential in groundwater appears to be limited to clayey sands with relatively low estimated permeability;
- Groundwater southwest of the Site in the calculated downgradient direction appears to be primarily present in relatively thin sand stringers;

- Impacted soil and groundwater appears to be localized to the subject property; however, dissolved petroleum hydrocarbons reported in grab water samples collected from soil borings B10, B13, and B16, indicate that downgradient, offsite migration of impacted groundwater is occurring; and
- Additional site characterization is necessary prior to evaluating the feasibility of any corrective action or interim groundwater migration control measures.

7.0 RECOMMENDATIONS

Based on the conclusions of this investigation, ACC recommends:

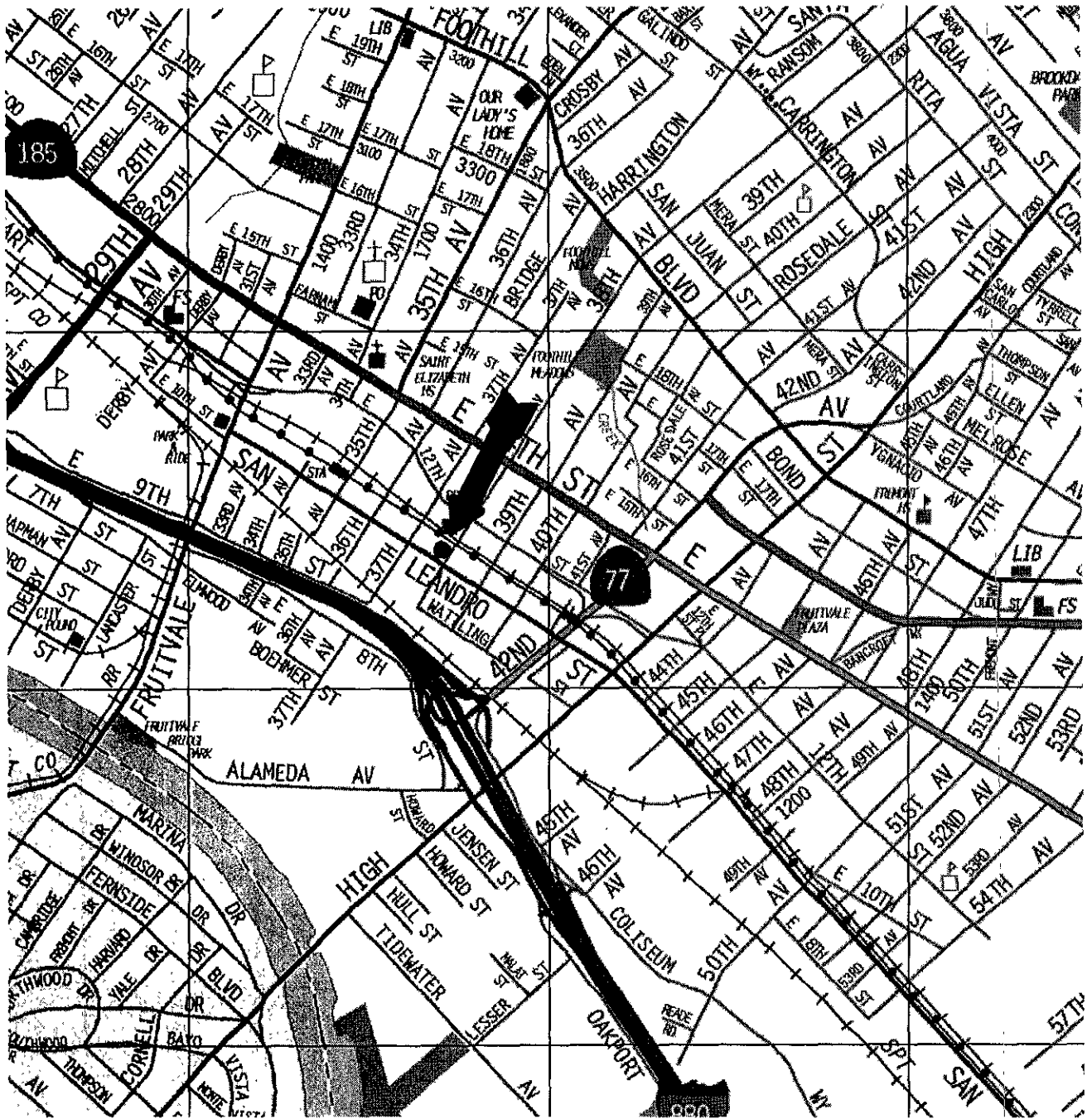
- Two additional groundwater monitoring wells be installed to further characterize groundwater conditions between monitoring wells MW-2 and MW-3 and downgradient of the Site in the vicinity of ACC soil boring B15;
- Additional downgradient investigation be performed to further characterize subsurface conditions and further define suspect offsite impacts in groundwater; and
- Acceptance to the California Underground Storage Tank Cleanup Fund should be pursued.

8.0 LIMITATIONS

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

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

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



SOURCE: Thomas Guide CD ROM, 1997

Title: Location Map 3820 San Leandro Street Oakland, California	
Figure Number: 1	Scale: 1" = 0.3 Mile
Project Number: 6651-01.00	Drawn By: NHD
	Date: 8/29/00
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	

39th Street

38th Street

Commercial Property

Residential

Former Gas Station

Approximate Groundwater Flow Direction



B14

B13

B15

B12

B11

San Leandro Street

B16

MW-2

3820 San Leandro Street

MW-3

B10

MW-1

B9

Legend

- - Soil Boring Locations
- MW-3 - Monitoring Well Location

Title: Soil Boring Locations
3820 San Leandro Street
Oakland, California

Figure Number: 2

Scale: 1" = 50'

Project Number: 6651-001.02

Drawn By: EJG

A·C·C

**ENVIRONMENTAL
CONSULTANTS**

Date: 8/25/03

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





ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. KAYWARD CA. 94644-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 890 San Leandro Street
Chilmark, CA 94601

PERMIT NUMBER W03-0706
WELL NUMBER _____
APN _____

CLIENT
Name Kelly Engineers
Address 1711 E. 12th Street Phone 610 816-8800
City Concord Zip 94520

PERMIT CONDITIONS

Cited Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT
Name Ed Giacometti, ACC Environmental Consultants
Address 997 Capwell Drive, Ste 100 Phone (925) 638-2440 x114
City Oakland Zip 94621

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by trowel.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	C	General	<input checked="" type="checkbox"/>
Water Supply	I	Contamination	<input checked="" type="checkbox"/>
Monitoring	L	Well Destruction	<input type="checkbox"/>

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by trowel.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

Now Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input checked="" type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

D. GEOTECHNICAL/Contamination

Backfill bore hole by trowel with cement grout or concrete ground mixture. Upper two-three feet replaced in kind or with compacted cuttings.

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>		

E. CATHODIC

Fill hole anode zone with concrete placed by trowel.

DRILLER'S NAME Tim Tyler, Environmental Control Associates

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

DRILLER'S LICENSE NO. 68990

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

WELL PROJECTS

Drill Hole Diameter	<u>6.5</u> in.	Maximum Depth	<u>20</u> ft.
Casing Diameter	<u>6.5</u> in.	Owner's Well Number	
Surface Seal Depth	<u>2</u> ft.		

GEOTECHNICAL PROJECTS

Number of Borings	<u>8</u>	Maximum Depth	<u>20</u> ft.
Hole Diameter	<u>2</u> in.		

STARTING DATE 8/6/03

COMPLETION DATE 8/6/03

APPROVED

DATE 8-1-03

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Ed Giacometti DATE 7/27/03

PLEASE PRINT NAME Ed Giacometti, ACC Env Rev. 9-18-02

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: 3820 San Leandro Street, Oakland, CA WORK DATE: 8/6/03 BORING: B9
				0	Asphalt
10YR-3/3	83.9	B9-4.0		2	Silty-clays (CL), black, dry, diesel odor
				4	
	25.8	B9-8.0		6	Silty-clays (CL), gray-green, no odor, dry, medium stiff
5Y-6/3				8	
	11.7	B9-11.0		10	Gravelly sands (SP), green discoloration and strong gasoline odor, soft, slight moisture (only able to get a 3 foot drive)
				12	
	74.9	B9-15.0		14	Silty-clays (CL), gray-green, strong gas odor, dry, medium stiff
	8.1	B9-16.5		16	Silty-clays (CL), brown, strong gas odor, slight green discoloration, stiff, dry
				18	
				20	Silty-clays (CL), same as above
10YR-3/3				22	Silty-clays (CL), brown, no odor, slight green discoloration, stiff, dry
	4.9			24	
				26	Silty-clays (CL), brown, no odor or discoloration, medium stiff, dry
				28	Silty-clays (CL), brown, slight odor, no discoloration, stiff, slight moisture, water @ 28.5 feet
	22.9	B9-29.0		29	
					TOTAL DEPTH OF BORING: 29 feet bgs
ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404			Project Number 6601-001.01 Date: 9/8/03		Title: LOG OF SOIL BORING 9 3820 San Leandro Street Oakland, California

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: 3820 San Leandro Street, Oakland, CA WORK DATE: 8/6/03 BORING: B10
10YR-3/3	178	B10-4.0	[Hatched pattern]	0 - 4	Asphalt Silty-clays (CL), black, dry, diesel odor
5Y-6/3	78.9	B10-8.0	[Hatched pattern]	4 - 8	Silty-clays (CL), gray-green, gas/diesel odor, dry, medium stiff
	171	B10-11.0 B10-W	[Hatched pattern]	8 - 11.0	Gravelly sands (SP), green discoloration and strong gasoline odor, soft, slight moisture (only able to get a 3 foot drive) Water @ 11.0
					TOTAL DEPTH OF BORING: 11 feet bgs
ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404			Project Number 6601-001.01 Date: 9/8/03		Title: LOG OF SOIL BORING 10 3820 San Leandro Street Oakland, California

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: 3820 San Leandro Street, Oakland, CA WORK DATE: 8/6/03 BORING: B11
				0	Concrete
10YR-3/3	3.1	B10-4.0		2	Silty clay (CL), brown, dry, slight odor, medium stiff
				4	
10YR-3/3	7.1	B10-8.0		6	Clayey gravels (GC), dark brown, no odor or discoloration, dry, stiff
				8	
	33.2			10	Clayey gravels (GC), dark brown, slight odor and green discoloration, dry, stiff
				12	
10YR-3/3	72.2			14	Silty clay (CL), green soil discoloration, dry, gas odor, medium stiff
				16	Silty clay (CL), same as above
	29.3	B11-18.0		18	
					TOTAL DEPTH OF BORING: 18 feet bgs
					20
					22
					24
					26
					28
ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	Project Number 6601-001.01		Title: LOG OF SOIL BORING 11 3820 San Leandro Street Oakland, California		
Date: 9/8/03					

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: 3820 San Leandro Street, Oakland, CA WORK DATE: 8/6/03 BORING: B12
				0	Concrete
10YR-3/3	5.1	B12-4.0		2	Silty clay (CL), dark brown, no odor or discoloration, dry, stiff
				4	
				6	Silty clay (CL), same as above
	4.3	B12-8.0		8	
10YR-6/3				10	Silty clay (CL), light brown, no odor or discoloration, dry, medium stiff
	8.5	B12-12.0		12	
				14	Silty clay (CL), same as above
	9.4	B12-16.0		16	
				18	Silty clay (CL), same as above
10YR-3/3	9.1	B12-20.0		20	Silty clay (CL), brown, no odor or discoloration, medium stiffness, damp
				22	(Lost core sampler in the hole. Unable to continue sampling to deeper depths)
	10.1	B12-24.0		24	
					TOTAL DEPTH OF BORING: 24 feet bgs
					26
					28
ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	Project Number 6601-001.01		Title: LOG OF SOIL BORING 12 3820 San Leandro Street Oakland, California		
	Date: 9/8/03				

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: 3820 San Leandro Street, Oakland, CA WORK DATE: 8/6/03 BORING: B13
				0	Concrete
10YR-3/3	8.9	B13-4.0		2	Silty clay (CL), dark brown, no odor or discoloration, dry, stiff
				4	
				6	Silty clay (CL), same as above
10YR-3/3	3.1	B13-8.0		8	
				10	Silty clay (CL), same as above
				12	
	2.9	B13-12.0		14	Silty clay (CL), same as above
10YR-3/3	12.2	B13-16.0		16	
				18	Silty clay (CL), same as above, increased moisture content observed at 18.0 feet
	25.2	B13-W		20	
					TOTAL DEPTH OF BORING: 20 feet bgs
					Water sample collected August 7, 2003
					22
					24
					26
					28
ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	Project Number 6601-001.01	Title: LOG OF SOIL BORING 13 3820 San Leandro Street Oakland, California			
Date: 9/8/03					

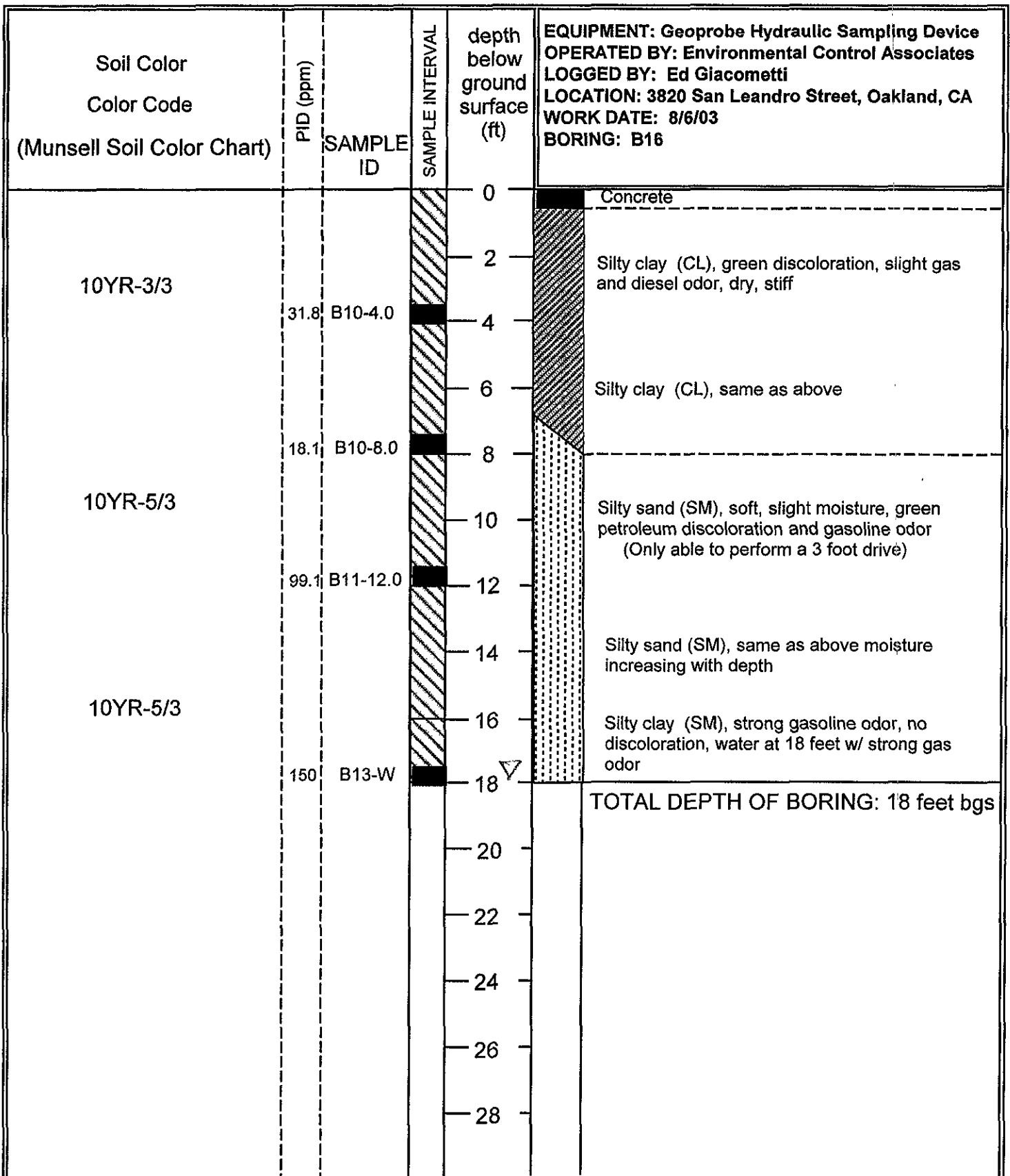
Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Hydraulic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: Ed Giacometti LOCATION: 3820 San Leandro Street, Oakland, CA WORK DATE: 8/6/03 BORING: B14
				0	Concrete
10YR-3/3	2.9	B14-4.0		2	Silty clay (CL), dark brown, no odor or discoloration, dry, stiff
				4	
				6	Silty clay (CL), same as above
10YR-3/3	4.1	B14-8.0		8	Silty clay (CL), same as above
				10	
				12	Silty clay (CL), same as above
				14	Silty clay (CL), same as above
10YR-3/3	11.5	B14-16.0		16	Silty clay (CL), same as above, moisture observed at 18.0 feet
				18	
	21.3	B14-W		20	TOTAL DEPTH OF BORING: 20 feet bgs
				22	
				24	
				26	
				28	

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Project Number
6601-001.01

Date: 9/8/03

Title: LOG OF SOIL BORING 14
3820 San Leandro Street
Oakland, California



ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	Project Number 6601-001.01	Title: LOG OF SOIL BORING 16 3820 San Leandro Street Oakland, California
Date: 9/8/03		

Site Address: 3820 San Leandro Street, Oakland, California
Sampling Date: 08/06/03

Project # 6651-001.01

Table 3 - Soil Sample Analytical Results

Sample ID	TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE
B9-8.0	1.4	1.1	0.019	<0.005	<0.005	<0.005	0.23
B9-11.0	5.4	2.5	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081
B10-8.0	220	400	2.8	<0.5	<0.5	<0.5	2.3
B10-11.0	2,500	940	3.2	<0.5	24	8.8	0.93
B11-18.0	1.2	22	0.15	<0.024	0.38	0.16	<0.024
B12-24.0	<1.0	<1.0	<0.045	<0.005	<0.0086	<0.005	<0.005
B14-17.0	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.0077

Notes: Soil sample results are in milligrams per kilogram (mg/kg), approximately equal to parts per million (ppm)

< = analytical results under laboratory reporting limit

RBSL levels are reported in parts per million (ppm) for soil and parts per billion (ppb) for groundwater

NA = Sample not analyzed for this constituent

Site Address: 3820 San Leandro Street, Oakland, California
Sampling Date: 08/06/03

Project # 6651-001.01

Table 4 - Grab Groundwater Sample Analytical Results

Sample ID	TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE	TBA	DIPE	ETBE	TAME
B9-W	8,600	27,000	3,100	210	1,600	780	96	610	<50	<25	<25
B10-W	840,000	130,000	15,000	<250	5,200	5,100	40,000	3,200	<500	<250	<250
B13-W	1,700	4,100	25	<2.5	21	<5.0	28	<25	<5.0	<2.5	<2.5
B16-W	18,000,000	180,000	99	<50	<50	<100	7,000	720	<100	<50	160

Notes: Water sample results are in micrograms per Liter (ug/L), approximately equal to parts per billion (ppb)

< = analytical results under laboratory reporting limit

RBSL levels are reported in parts per million (ppm) for soil and parts per billion (ppb) for groundwater

NA = Sample not analyzed for this constituent

TBA = tert-Butyl alcohol

DIPE = Di-isopropyl Ether

ETBE = Ethyl tert-butyl ether

TAME = tert-Amyl methyl ether

for

for

ACC Environmental Consultants

August 20, 2003

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Attn.: Ed Giacometti

Project#: 6601-001.01

Project: 3820 San Leandro St.

Dear Mr. Giacometti,

Attached is our report for your samples received on 08/08/2003 16:20

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 09/22/2003 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

Severn Trent Laboratories, Inc.

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

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

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Glacometti

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B9-8.0	08/06/2003 08:00	Soil	5
B9-11.0	08/06/2003 08:05	Soil	6
B11-18.0	08/06/2003 10:55	Soil	9
B12-24.0	08/06/2003 13:15	Soil	10
B14-17.0	08/06/2003 16:05	Soil	11

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

08/13/2003 11:41

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B9-8.0	Lab ID:	2003-08-0302 - 5
Sampled:	08/06/2003 08:00	Extracted:	8/11/2003 20:29
Matrix:	Soil	QC Batch#:	2003/08/11-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1100	1000	ug/Kg	1.00	08/11/2003 20:29	g
Methyl tert-butyl ether (MTBE)	230	5.0	ug/Kg	1.00	08/11/2003 20:29	
Benzene	19	5.0	ug/Kg	1.00	08/11/2003 20:29	
Toluene	ND	5.0	ug/Kg	1.00	08/11/2003 20:29	
Ethyl benzene	ND	5.0	ug/Kg	1.00	08/11/2003 20:29	
Total xylenes	ND	5.0	ug/Kg	1.00	08/11/2003 20:29	
Surrogates(s)						
1,2-Dichloroethane-d4	108.1	70-121	%	1.00	08/11/2003 20:29	
Toluene-d8	99.5	81-117	%	1.00	08/11/2003 20:29	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s): 5030B Test(s): 8260B
Sample ID: B9-11.0 Lab ID: 2003-08-0302-6
Sampled: 08/06/2003 08:05 Extracted: 8/12/2003 15:03
Matrix: Soil QC Batch#: 2003/08/12-01 62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2500	1600	ug/Kg	1.62	08/12/2003 15:03	g
Methyl tert-butyl ether (MTBE)	ND	8.1	ug/Kg	1.62	08/12/2003 15:03	
Benzene	ND	8.1	ug/Kg	1.62	08/12/2003 15:03	
Toluene	ND	8.1	ug/Kg	1.62	08/12/2003 15:03	
Ethyl benzene	ND	8.1	ug/Kg	1.62	08/12/2003 15:03	
Total xylenes	ND	8.1	ug/Kg	1.62	08/12/2003 15:03	
Surrogates(s)						
1,2-Dichloroethane-d4	103.8	70-121	%	1.62	08/12/2003 15:03	
Toluene-d8	101.6	81-117	%	1.62	08/12/2003 15:03	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B11-18.0	Lab ID:	2003-08-0302 - 9
Sampled:	08/06/2003 10:55	Extracted:	8/12/2003 15:25
Matrix:	Soil	QC Batch#:	2003/08/12-0162

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	22000	4700	ug/Kg	4.72	08/12/2003 15:25	
Methyl tert-butyl ether (MTBE)	ND	24	ug/Kg	4.72	08/12/2003 15:25	
Benzene	150	24	ug/Kg	4.72	08/12/2003 15:25	
Toluene	ND	24	ug/Kg	4.72	08/12/2003 15:25	
Ethyl benzene	380	24	ug/Kg	4.72	08/12/2003 15:25	
Total xylenes	160	24	ug/Kg	4.72	08/12/2003 15:25	
Surrogates(s)						
1,2-Dichloroethane-d4	110.3	70-121	%	4.72	08/12/2003 15:25	
Toluene-d8	100.2	81-117	%	4.72	08/12/2003 15:25	

Severn Trent Laboratories, Inc.

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

08/13/2003 11:41

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100

Oakland, CA 94621

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

Project: 6601-001.01

3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B12-24.0	Lab ID:	2003-08-0302 - 10
Sampled:	08/08/2003 13:15	Extracted:	8/12/2003 15:46
Matrix:	Soil	QC Batch#:	2003/08/12-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	08/12/2003 15:46	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	08/12/2003 15:46	
Benzene	45	5.0	ug/Kg	1.00	08/12/2003 15:46	
Toluene	ND	5.0	ug/Kg	1.00	08/12/2003 15:46	
Ethyl benzene	8.8	5.0	ug/Kg	1.00	08/12/2003 15:46	
Total xylenes	ND	5.0	ug/Kg	1.00	08/12/2003 15:46	
Surrogates(s)						
1,2-Dichloroethane-d4	102.3	70-121	%	1.00	08/12/2003 15:46	
Toluene-d8	104.3	81-117	%	1.00	08/12/2003 15:46	

Fuel Oxygenates by 8260B

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B14-17.0	Lab ID:	2003-08-0302 - 11
Sampled:	08/06/2003 16:05	Extracted:	8/12/2003 00:26
Matrix:	Soil	QC Batch#:	2003/08/11-02-62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	08/12/2003 00:26	
Methyl tert-butyl ether (MTBE)	7.7	5.0	ug/Kg	1.00	08/12/2003 00:26	
Benzene	ND	5.0	ug/Kg	1.00	08/12/2003 00:26	
Toluene	ND	5.0	ug/Kg	1.00	08/12/2003 00:26	
Ethyl benzene	ND	5.0	ug/Kg	1.00	08/12/2003 00:26	
Total xylenes	ND	5.0	ug/Kg	1.00	08/12/2003 00:26	
Surrogates(s)						
1,2-Dichloroethane-d4	108.8	70-121	%	1.00	08/12/2003 00:26	
Toluene-d8	99.7	81-117	%	1.00	08/12/2003 00:26	

Fuel Oxygenates by 8260B

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 6030B
Method Blank
MB: 2003/08/11-01:62-016

Soil:

Test(s): 8260B
QC Batch #: 2003/08/11-01:62
Date Extracted: 08/11/2003 10:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	08/11/2003 10:16	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	08/11/2003 10:16	
Benzene	ND	5.0	ug/Kg	08/11/2003 10:16	
Toluene	ND	5.0	ug/Kg	08/11/2003 10:16	
Ethyl benzene	ND	5.0	ug/Kg	08/11/2003 10:16	
Total xylenes	ND	5.0	ug/Kg	08/11/2003 10:16	
Surrogates(s)					
1,2-Dichloroethane-d4	100.7	70-121	%	08/11/2003 10:16	
Toluene-d8	99.7	81-117	%	08/11/2003 10:16	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/08/11-02.62-033

Soil

Test(s): 8260B

QC Batch # 2003/08/11-02.62

Date Extracted: 08/11/2003 21:33

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	08/11/2003 21:33	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	08/11/2003 21:33	
Benzene	ND	5.0	ug/Kg	08/11/2003 21:33	
Toluene	ND	5.0	ug/Kg	08/11/2003 21:33	
Ethyl benzene	ND	5.0	ug/Kg	08/11/2003 21:33	
Total xylenes	ND	5.0	ug/Kg	08/11/2003 21:33	
Surrogates(s)					
1,2-Dichloroethane-d4	94.7	70-121	%	08/11/2003 21:33	
Toluene-d8	102.0	81-117	%	08/11/2003 21:33	

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08/13/2003 11:41

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/08/12-01:62:006

Soil

Test(s): 8260B
QC Batch # 2003/08/12-01:62
Date Extracted: 08/12/2003 11:06

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	08/12/2003 11:06	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	08/12/2003 11:06	
Benzene	ND	5.0	ug/Kg	08/12/2003 11:06	
Toluene	ND	5.0	ug/Kg	08/12/2003 11:06	
Ethyl benzene	ND	5.0	ug/Kg	08/12/2003 11:06	
Total xylenes	ND	5.0	ug/Kg	08/12/2003 11:06	
Surrogates(s)					
1,2-Dichloroethane-d4	100.3	70-121	%	08/12/2003 11:06	
Toluene-d8	89.1	81-117	%	08/12/2003 11:06	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2003/08/11-01.62

LCS 2003/08/11-01.62-033

Extracted: 08/11/2003

Analyzed: 08/11/2003 09:33

LCSD 2003/08/11-01.62-055

Extracted: 08/11/2003

Analyzed: 08/11/2003 09:55

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	59.9	60.2	50.0	119.8	120.4	0.5	65-165	20		
Benzene	53.5	53.4	50.0	107.0	106.8	0.2	69-129	20		
Toluene	51.5	50.4	50.0	103.0	100.8	2.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	512	505	500	102.4	101.0		70-121			
Toluene-d8	513	505	500	102.6	101.0		81-117			

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Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 6030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2003/08/11-02.62

LCS 2003/08/11-02.62-050

Extracted: 08/11/2003

Analyzed: 08/11/2003 20:50

LCSD 2003/08/11-02.62-012

Extracted: 08/11/2003

Analyzed: 08/11/2003 21:12

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	68.0	65.4	50.0	136.0	130.8	3.9	65-165	20		
Benzene	63.5	58.8	50.0	127.0	117.6	7.7	69-120	20		
Toluene	61.0	55.1	50.0	122.0	110.2	10.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	517	536	500	103.4	107.2		70-121			
Toluene-d8	515	514	500	103.0	102.8		81-117			

Sewern Trent Laboratories, Inc.

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

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08/13/2003 11:41

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2003/08/12-01.62

LCS 2003/08/12-01.62-023

Extracted: 08/12/2003

Analyzed: 08/12/2003 10:23

LCSD 2003/08/12-01.62-045

Extracted: 08/12/2003

Analyzed: 08/12/2003 10:45

Compound	Conc. ug/Kg		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %			Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	57.9	54.0	50.0	115.8	108.0	7.0	65-165	20			
Benzene	53.6	53.5	50.0	107.2	107.0	0.2	69-129	20			
Toluene	51.7	51.0	50.0	103.4	102.0	1.4	70-130	20			
Surrogates(s)											
1,2-Dichloroethane-d4	487	475	500	97.4	95.0		70-121				
Toluene-d8	504	509	500	100.8	101.8		81-117				

Severn Trent Laboratories, Inc.

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

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08/13/2003 11:41

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B Test(s): 8260B

Matrix Spike (MS / MSD) Soil QC Batch # 2003/08/11-02.62

B12-24.0 >> MS Lab ID: 2003-08-0302 - 010

MS: 2003/08/11-02.62-043 Extracted: 08/11/2003 Analyzed: 08/11/2003 23:43

MSD: 2003/08/11-02.62-005 Extracted: 08/12/2003 Dilution: 1.00

Analyzed: 08/12/2003 00:05

Dilution: 1.00

Compound	Conc. ug/Kg			Spk.Level ug/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	70.9	80.0	7.82	49.7	126.9	107.6	16.5	65-165	20		
Benzene	85.7	79.3	47.0	49.7	98.0	66.6	38.2	69-129	20		mso, rpd
Toluene	52.0	43.4	ND	49.7	104.6	89.5	15.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	549	543		500	109.8	108.6		70-121			
Toluene-d8	520	502		500	104.0	100.4		81-117			

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3620 San Leandro St.

Received: 08/08/2003 16:20

Legend and Notes

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

rpd

Analyte RPD was out of QC limits due to sample heterogeneity.

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Glacometti

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B9-W	08/07/2006 08:10	Water	1
B10-W	08/06/2006 17:05	Water	2
B13-W	08/07/2006 08:45	Water	3
B16-W	08/06/2006 10:15	Water	4

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08/20/2003 16:33

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Ed Giacometti

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Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s): 5030B Test(s): 8260B
Sample ID: B9-W Lab ID: 2003-08-0302 - 1
Sampled: 08/07/2006 08:10 Extracted: 8/15/2003 19:32
Matrix: Water QC Batch#: 2003/08/15-10:66
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	27000	2500	ug/L	50.00	08/15/2003 19:32	
tert-Butyl alcohol (TBA)	610	250	ug/L	50.00	08/15/2003 19:32	
Methyl tert-butyl ether (MTBE)	96	25	ug/L	50.00	08/15/2003 19:32	
Di-isopropyl Ether (DIPE)	ND	50	ug/L	50.00	08/15/2003 19:32	
Ethyl tert-butyl ether (ETBE)	ND	25	ug/L	50.00	08/15/2003 19:32	
tert-Amyl methyl ether (TAME)	ND	25	ug/L	50.00	08/15/2003 19:32	
Benzene	3100	25	ug/L	50.00	08/15/2003 19:32	
Toluene	210	25	ug/L	50.00	08/15/2003 19:32	
Ethylbenzene	1600	25	ug/L	50.00	08/15/2003 19:32	
Total xylenes	780	50	ug/L	50.00	08/15/2003 19:32	
Surrogates(s)						
1,2-Dichloroethane-d4	112.6	76-114	%	50.00	08/15/2003 19:32	
Toluene-d8	108.5	88-110	%	50.00	08/15/2003 19:32	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6601-001.01
3620 San Leandro St.

Received: 08/08/2003 16:20

Prep(s): 5030B Test(s): 8260B
Sample ID: B10-W Lab ID: 2003-08-0302 - 2
Sampled: 08/06/2003 17:05 Extracted: 8/18/2003 05:28
Matrix: Water QC Batch#: 2003/08/17-2A.66
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	130000	25000	ug/L	500.00	08/18/2003 05:28	
tert-Butyl alcohol (TBA)	3200	2500	ug/L	500.00	08/18/2003 05:28	
Methyl tert-butyl ether (MTBE)	40000	250	ug/L	500.00	08/18/2003 05:28	
Di-isopropyl Ether (DIPE)	ND	500	ug/L	500.00	08/18/2003 05:28	
Ethyl tert-butyl ether (ETBE)	ND	250	ug/L	500.00	08/18/2003 05:28	
tert-Amyl methyl ether (TAME)	ND	250	ug/L	500.00	08/18/2003 05:28	
Benzene	15000	250	ug/L	500.00	08/18/2003 05:28	
Toluene	ND	250	ug/L	500.00	08/18/2003 05:28	
Ethylbenzene	5200	250	ug/L	500.00	08/18/2003 05:28	
Total xylenes	5100	500	ug/L	500.00	08/18/2003 05:28	
Surrogates(s)						
1,2-Dichloroethane-d4	96.3	76-114	%	500.00	08/18/2003 05:28	
Toluene-d8	102.9	88-110	%	500.00	08/18/2003 05:28	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s): 5030B Test(s): 8260B
 Sample ID: B13-W Lab ID: 2003-08-0302 - 3
 Sampled: 08/07/2006 08:45 Extracted: 8/16/2003 22:01
 Matrix: Water QC Batch#: 2003/08/16-02-64
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4100	250	ug/L	5.00	08/16/2003 22:01	
tert-Butyl alcohol (TBA)	ND	25	ug/L	5.00	08/16/2003 22:01	
Methyl tert-butyl ether (MTBE)	28	2.5	ug/L	5.00	08/16/2003 22:01	
Di-isopropyl Ether (DIPE)	ND	5.0	ug/L	5.00	08/16/2003 22:01	
Ethyl tert-butyl ether (ETBE)	ND	2.5	ug/L	5.00	08/16/2003 22:01	
tert-Amyl methyl ether (TAME)	ND	2.5	ug/L	5.00	08/16/2003 22:01	
Benzene	25	2.5	ug/L	5.00	08/16/2003 22:01	
Toluene	ND	2.5	ug/L	5.00	08/16/2003 22:01	
Ethylbenzene	21	2.5	ug/L	5.00	08/16/2003 22:01	
Total xylenes	ND	5.0	ug/L	5.00	08/16/2003 22:01	
Surrogates(s)						
1,2-Dichloroethane-d4	109.3	76-114	%	5.00	08/16/2003 22:01	
Toluene-d8	107.7	88-110	%	5.00	08/16/2003 22:01	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s): 5030B Test(s): 8260B
Sample ID: B16-W Lab ID: 2003-08-0302 - 4
Sampled: 08/08/2003 10:15 Extracted: 8/18/2003 13:56
Matrix: Water QC Batch#: 2003/08/18-01.64
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	180000	5000	ug/L	100.00	08/18/2003 13:56	
tert-Butyl alcohol (TBA)	720	500	ug/L	100.00	08/18/2003 13:56	
Methyl tert-butyl ether (MTBE)	7000	50	ug/L	100.00	08/18/2003 13:56	
Di-isopropyl Ether (DIPE)	ND	100	ug/L	100.00	08/18/2003 13:56	
Ethyl tert-butyl ether (ETBE)	ND	50	ug/L	100.00	08/18/2003 13:56	
tert-Amyl methyl ether (TAME)	160	50	ug/L	100.00	08/18/2003 13:56	
Benzene	99	50	ug/L	100.00	08/18/2003 13:56	
Toluene	ND	50	ug/L	100.00	08/18/2003 13:56	
Ethylbenzene	ND	50	ug/L	100.00	08/18/2003 13:56	
Total xylenes	ND	100	ug/L	100.00	08/18/2003 13:56	
Surrogates(s)						
1,2-Dichloroethane-d4	104.5	76-114	%	100.00	08/18/2003 13:56	
Toluene-d8	102.3	88-110	%	100.00	08/18/2003 13:56	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/08/15-1C.66-011

Water

Test(s): 8260B
QC Batch # 2003/08/15-1C.66
Date Extracted: 08/15/2003 10:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/15/2003 10:11	
Benzene	ND	0.5	ug/L	08/15/2003 10:11	
Toluene	ND	0.5	ug/L	08/15/2003 10:11	
Ethylbenzene	ND	0.5	ug/L	08/15/2003 10:11	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	08/15/2003 10:11	
Total xylenes	ND	1.0	ug/L	08/15/2003 10:11	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	08/15/2003 10:11	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	08/15/2003 10:11	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	08/15/2003 10:11	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/15/2003 10:11	
Surrogates(s)					
1,2-Dichloroethane-d4	85.4	76-114	%	08/15/2003 10:11	
Toluene-d8	101.6	88-110	%	08/15/2003 10:11	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 8601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/08/16-02.64-011

Water

Test(s): 8260B
QC Batch # 2003/08/16-02.64
Date Extracted: 08/16/2003 20:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/16/2003 20:11	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	08/16/2003 20:11	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/16/2003 20:11	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	08/16/2003 20:11	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	08/16/2003 20:11	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	08/16/2003 20:11	
Benzene	ND	0.5	ug/L	08/16/2003 20:11	
Toluene	ND	0.5	ug/L	08/16/2003 20:11	
Ethylbenzene	ND	0.5	ug/L	08/16/2003 20:11	
Total xylenes	ND	1.0	ug/L	08/16/2003 20:11	
Surrogates(s)					
1,2-Dichloroethane-d4	105.0	76-114	%	08/16/2003 20:11	
Toluene-d8	98.6	88-110	%	08/16/2003 20:11	

Fuel Oxygenates by 8260B

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/08/17-2A.65-062

Water

Test(s): 8260B
QC Batch # 2003/08/17-2A.65
Date Extracted: 08/17/2003 22:42

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/17/2003 22:42	
Benzene	ND	0.5	ug/L	08/17/2003 22:42	
Toluene	ND	0.5	ug/L	08/17/2003 22:42	
Ethylbenzene	ND	0.5	ug/L	08/17/2003 22:42	
Total xylenes	ND	1.0	ug/L	08/17/2003 22:42	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	08/17/2003 22:42	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/17/2003 22:42	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	08/17/2003 22:42	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	08/17/2003 22:42	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	08/17/2003 22:42	
Surrogates(s)					
1,2-Dichloroethane-d4	84.0	76-114	%	08/17/2003 22:42	
Toluene-d8	99.8	88-110	%	08/17/2003 22:42	

Severn Trent Laboratories, Inc.

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Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6601-001.01
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Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B

Method: Blank

MB: 2003/08/18-01.64-044

Water

Test(s): 8260B

QC Batch # 2003/08/18-01.64

Date Extracted: 08/18/2003 11:44

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/18/2003 11:44	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	08/18/2003 11:44	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/18/2003 11:44	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	08/18/2003 11:44	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	08/18/2003 11:44	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	08/18/2003 11:44	
Benzene	ND	0.5	ug/L	08/18/2003 11:44	
Toluene	ND	0.5	ug/L	08/18/2003 11:44	
Ethylbenzene	ND	0.5	ug/L	08/18/2003 11:44	
Total xylenes	ND	1.0	ug/L	08/18/2003 11:44	
Surrogates(s)					
1,2-Dichloroethane-d4	102.4	76-114	%	08/18/2003 11:44	
Toluene-d8	92.6	88-110	%	08/18/2003 11:44	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2003/08/15-1C.66

LCS 2003/08/15-1C.66-023

Extracted: 08/15/2003

Analyzed: 08/15/2003 09:23

LCSD 2003/08/15-1C.66-047

Extracted: 08/15/2003

Analyzed: 08/15/2003 09:47

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	21.0	20.3	25	84.0	81.2	3.4	69-129	20		
Toluene	21.1	20.9	25	84.4	83.6	1.0	70-130	20		
Methyl tert-butyl ether (MTBE)	21.0	18.9	25	84.0	75.6	10.5	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	564	483	500	112.8	96.6		76-114			
Toluene-d8	531	507	500	106.2	101.4		88-110			

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Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2003/08/16-02.64

LCS: 2003/08/16-02.64-050

Extracted: 08/16/2003

Analyzed: 08/16/2003 19:27

LCSD: 2003/08/16-02.64-049

Extracted: 08/16/2003

Analyzed: 08/16/2003 19:49

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	29.2	29.8	25.0	116.8	119.2	2.0	65-165	20		
Benzene	27.6	28.2	25.0	110.4	112.8	2.2	69-129	20		
Toluene	29.8	30.0	25.0	119.2	120.0	0.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	531	533	500	106.2	106.6		76-114	0		
Toluene-d8	516	510	500	103.2	102.0		88-110	0		

Fuel Oxygenates by 8260B

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2003/08/17-2A.65

LCS 2003/08/17-2A.65-060

Extracted: 08/17/2003

Analyzed: 08/17/2003 21:57

LCSD 2003/08/17-2A.65-061

Extracted: 08/17/2003

Analyzed: 08/17/2003 22:20

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.7	24.1	25	98.8	96.4	2.5	69-129	20		
Toluene	24.4	25.0	25	97.6	100.0	2.4	70-130	20		
Methyl tert-butyl ether (MTBE)	20.7	19.3	25	82.8	77.2	7.0	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	430	409	500	86.0	81.8		76-114			
Toluene-d8	482	476	500	96.4	95.2		88-110			

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Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2003/08/18-01.64

LCS 2003/08/18-01.64-000

Extracted: 08/18/2003

Analyzed: 08/18/2003 11:00

LCSD 2003/08/18-01.64-022

Extracted: 08/18/2003

Analyzed: 08/18/2003 11:22

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	26.1	25.9	25.0	104.4	103.6	0.8	65-165	20		
Benzene	28.8	28.1	25.0	115.2	112.4	2.5	69-129	20		
Toluene	27.8	30.6	25.0	111.2	122.4	9.6	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	466	475	500	93.2	95.0		76-114			
Toluene-d8	482	519	500	96.4	103.8		66-110			

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Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6601-001.01

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Received: 08/08/2003 16:20

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Gas/BTEX Fuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01

3820 San Leandro St.

Received: 08/08/2003 16:20

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B10-8.0	08/06/2003 09:25	Soil	7
B10-11.0	08/06/2003 09:28	Soil	8

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

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08/15/2003 15:42

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Ed Glacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B10-8.0	Lab ID:	2003-08-0302 - 7
Sampled:	08/08/2003 09:25	Extracted:	8/15/2003 11:15
Matrix:	Soil	QC Batch#:	2003/08/15-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	400000	50000	ug/Kg	1.00	08/15/2003 11:15	
Benzene	2800	500	ug/Kg	1.00	08/15/2003 11:15	
Toluene	ND	500	ug/Kg	1.00	08/15/2003 11:15	
Ethyl benzene	ND	500	ug/Kg	1.00	08/15/2003 11:15	
Total xylenes	ND	500	ug/Kg	1.00	08/15/2003 11:15	
Methyl tert-butyl ether (MTBE)	2300	500	ug/Kg	1.00	08/15/2003 11:15	
Surrogates(s)						
1,2-Dichloroethane-d4	86.1	70-121	%	1.00	08/15/2003 11:15	
Toluene-d8	95.5	81-117	%	1.00	08/15/2003 11:15	

Gas/BTEX Fuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

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Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s): 5030B Test(s): 8260B
Sample ID: B10-11.0 Lab ID: 2003-08-0302 - 8
Sampled: 08/06/2003 09:28 Extracted: 8/15/2003 11:37
Matrix: Soil QC Batch#: 2003/08/16-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	940000	50000	ug/Kg	1.00	08/15/2003 11:37	
Benzene	3200	500	ug/Kg	1.00	08/15/2003 11:37	
Toluene	ND	500	ug/Kg	1.00	08/15/2003 11:37	
Ethyl benzene	24000	500	ug/Kg	1.00	08/15/2003 11:37	
Total xylenes	8800	500	ug/Kg	1.00	08/15/2003 11:37	
Methyl tert-butyl ether (MTBE)	930	500	ug/Kg	1.00	08/15/2003 11:37	
Surrogates(s)						
1,2-Dichloroethane-d4	89.6	70-121	%	1.00	08/15/2003 11:37	
Toluene-d8	105.2	81-117	%	1.00	08/15/2003 11:37	

Severn Trent Laboratories, Inc.

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

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

08/15/2003 18:42

Gas/BTEXFuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3620 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/08/15-02.62-053

Soil

Test(s): 8260B
QC Batch # 2003/08/15-02.62
Date Extracted: 08/15/2003 10:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	mg/Kg	08/15/2003 10:53	
Benzene	ND	0.50	mg/Kg	08/15/2003 10:53	
Toluene	ND	0.50	mg/Kg	08/15/2003 10:53	
Ethyl benzene	ND	0.50	mg/Kg	08/15/2003 10:53	
Total xylenes	ND	0.50	mg/Kg	08/15/2003 10:53	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	08/15/2003 10:53	
Surrogates(s)					
1,2-Dichloroethane-d4	84.4	76-130	%	08/15/2003 10:53	
Toluene-d8	97.3	78-115	%	08/15/2003 10:53	

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

08/15/2003 15:42

Gas/BTEX Fuel Oxygenates by 8260B (High Level)

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2003/08/15-02.62

LCS 2003/08/15-02.62-008

Extracted: 08/15/2003

Analyzed: 08/15/2003 10:08

LCSD 2003/08/15-02.62-030

Extracted: 08/15/2003

Analyzed: 08/15/2003 10:30

Compound	Conc. mg/Kg		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	9650	10500	10000	96.5	105.0	8.4	69-129	20		
Toluene	9450	10400	10000	94.5	104.0	9.6	70-130	20		
Methyl tert-butyl ether (MTBE)	8950	9650	10000	89.5	96.5	7.5	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	202	210	250	80.8	84.0		76-130			
Toluene-d8	238	249	250	95.2	99.6		78-115			

Severn Trent Laboratories, Inc.

08/15/2003 15:42

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

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100

Oakland, CA 94621

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

Project: 6601-001.01

3820 San Leandro St.

Received: 08/08/2003 16:20

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B9-8.0	08/06/2003 08:00	Soil	5
B9-11.0	08/06/2003 08:05	Soil	6
B10-8.0	08/06/2003 09:25	Soil	7
B10-11.0	08/06/2003 09:28	Soil	8
B11-18.0	08/06/2003 10:55	Soil	9
B12-24.0	08/06/2003 13:15	Soil	10
B14-17.0	08/06/2003 16:05	Soil	11

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08/18/2003 17:53

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	B9-8.0	Lab ID:	2003-08-0302 - 5
Sampled:	08/08/2003 08:00	Extracted:	8/14/2003 19:01
Matrix:	Soil	QC Batch#:	2003/08/14-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.4	1.0	mg/Kg	1.00	08/15/2003 10:58	ndp
Surrogates(s) o-Terphenyl	90.1	60-130	%	1.00	08/15/2003 10:58	

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: B9-11.0	Lab ID: 2003-08-0302 - 6
Sampled: 08/06/2003 08:05	Extracted: 8/14/2003 19:01
Matrix: Soil	QC Batch#: 2003/08/14-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	5.4	1.0	mg/Kg	1.00	08/15/2003 11:38	ndp
Surrogates(s) o-Terphenyl	86.9	60-130	%	1.00	08/15/2003 11:38	

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08/18/2003 17:53

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	B10-8.0	Lab ID:	2003-08-0302 - 7
Sampled:	08/06/2003 09:25	Extracted:	8/14/2003 19:01
Matrix:	Soil	QC Batch#:	2003/08/14-08:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	220	1.0	mg/Kg	1.00	08/15/2003 12:18	ndp
Surrogates(s) o-Terphenyl	89.4	60-130	%	1.00	08/15/2003 12:18	

Diesel

ACC Environmental Consultants

Attn.: Ed Glacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: B10-11.0	Lab ID: 2003-08-0302 - 8
Sampled: 08/06/2003 09:28	Extracted: 8/14/2003 19:01
Matrix: Soil	QC Batch#: 2003/08/14-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2500	25	mg/Kg	25.00	08/17/2003 22:06	ndp
Surrogates(s) o-Terphenyl	NA	60-130	%	25.00	08/17/2003 22:06	sd

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

08/18/2003 17:53

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100

Oakland, CA 94621

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

Project: 6601-001.01

3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	B11-18.0	Lab ID:	2003-08-0302 - 9
Sampled:	08/06/2003 10:55	Extracted:	8/14/2003 19:01
Matrix:	Soil	QC Batch#:	2003/08/14-06:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.2	1.0	mg/Kg	1.00	08/16/2003 03:53	ndp
Surrogates(s) o-Terphenyl	86.2	60-130	%	1.00	08/16/2003 03:53	

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 8601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	B12-24.0	Lab ID:	2003-08-0302 - 10
Sampled:	08/06/2003 13:15	Extracted:	8/14/2003 19:01
Matrix:	Soil	QC Batch#:	2003/08/14-06:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/16/2003 03:12	
Surrogates(s) o-Terphenyl	84.4	60-130	%	1.00	08/16/2003 03:12	

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s):	3550/8Q15M	Test(s):	8015M
Sample ID:	B14-17.0	Lab ID:	2003-08-0302 - 11
Sampled:	08/08/2003 16:05	Extracted:	8/14/2003 19:01
Matrix:	Soil	QC Batch#:	2003/08/14-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	08/16/2003 02:31	
Surrogates(s)						
o-Terphenyl	85.3	60-130	%	1.00	08/16/2003 02:31	

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 3550/8015M
Method Blank
MB: 2003/08/14-06.10-001

Soil

Test(s): 8015M
QC Batch # 2003/08/14-06.10
Date Extracted: 08/14/2003 19:01

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	08/15/2003 18:51	
Surrogates(s) o-Terphenyl	93.6	60-130	%	08/15/2003 18:51	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94586
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

08/18/2003 17:03

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2003/08/14-06.10

LCS 2003/08/14-06.10-002

Extracted: 08/14/2003

Analyzed: 08/15/2003 17:50

LCSD 2003/08/14-06.10-003

Extracted: 08/14/2003

Analyzed: 08/15/2003 18:21

Compound	Conc. mg/Kg		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	38.4	38.8	41.3	93.0	93.3	0.3	60-130	25		
Surrogates(s) o-Terphenyl	19.9	20.4	20.0	99.4	102.2		60-130	0		

Severn Trent Laboratories, Inc.

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

08/18/2003 17:53

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100

Oakland, CA 94621

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

Project: 6601-001.01

3820 San Leandro St.

Received: 08/08/2003 16:20

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1086 * www.stl-inc.com * CA DHS ELAP# 2496

08/18/2003 17:59

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100
Oakland, CA 94621
Phone: (510) 638-8400 Fax: (510) 638-8404Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B9-W	08/07/2006 08:10	Water	1
B10-W	08/06/2006 17:06	Water	2
B13-W	08/07/2006 08:46	Water	3
B16-W	08/06/2006 10:16	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94666
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2498

08/18/2003 17:52

Diesel

ACC Environmental Consultants

Attn.: Ed Glacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	B9-W	Lab ID:	2003-08-0302 - 1
Sampled:	08/07/2006 08:10	Extracted:	8/15/2003 06:44
Matrix:	Water	QC Batch#:	2003/08/15-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	8600	50	ug/L	1.00	08/16/2003 03:31	ndp
<i>Surrogates(s)</i> o-Terphenyl	68.3	60-130	%	1.00	08/16/2003 03:31	

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	B10-W	Lab ID:	2003-08-0302 - 2
Sampled:	08/06/2003 17:05	Extracted:	8/15/2003 06:44
Matrix:	Water	QC Batch#:	2003/08/16-01-10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	840000	13000	ug/L	250.00	08/17/2003 23:09	ndp
<i>Surrogates(s)</i> o-Terphenyl	NA	60-130	%	250.00	08/17/2003 23:09	sd

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: B13-W	Lab ID: 2003-08-0302 - 3
Sampled: 08/07/2006 08:45	Extracted: 8/15/2003 06:44
Matrix: Water	QC Batch#: 2003/08/15-01:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1700	50	ug/L	1.00	08/16/2003 04:02	ndp
Surrogates(s) o-Terphenyl	98.7	60-130	%	1.00	08/16/2003 04:02	

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: B16-W	Lab ID: 2003-08-0302-4
Sampled: 08/06/2006 10:15	Extracted: 8/15/2003 06:44
Matrix: Water	QC Batch#: 2003/08/15-01-10
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	18000000	500000	ug/L	10000.00	08/17/2003 23:09	ndp
Surrogates(s)						
o-Terphenyl	NA	60-130	%	10000.00	08/17/2003 23:09	sd

Diesel

ACC Environmental Consultants

Attn: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2003/08/15-01.10-001

Water

Test(s): 8015M

QC Batch # 2003/08/15-01.10

Date Extracted: 08/15/2003 06:44

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	08/16/2003 01:29	
Surrogates(s) o-Terphenyl	76.7	60-130	%	08/16/2003 01:29	

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

08/18/2003 17:52

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

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

Project: 6601-001.01
3820 San Leandro St.

Received: 08/08/2003 16:20

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2003/08/15-01.10

LCS 2003/08/15-01.10-002

Extracted: 08/15/2003

Analyzed: 08/16/2003 00:28

LCSD 2003/08/15-01.10-003

Extracted: 08/15/2003

Analyzed: 08/16/2003 00:58

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	695	704	1000	69.5	70.4	1.3	60-130	25		
Surrogates(s) o-Terphenyl	17.0	16.9	20.0	84.8	84.7		60-130	0		

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

08/18/2003 17:52

Diesel

ACC Environmental Consultants

Attn.: Ed Giacometti

7977 Capwell Drive, Suite 100

Oakland, CA 94621

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

Project: 6601-001.01

3820 San Leandro St.

Received: 08/08/2003 16:20

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

sd

Surrogate recovery not reportable due to required dilution.

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

08/18/2003 17:52

2003-08-0302

Report To

Analysis Request

Attn: ED GIACOMETTI					TPH EPA - <input type="checkbox"/> 8016/8021, <input type="checkbox"/> 8260B <input checked="" type="checkbox"/> Gas w/ <input type="checkbox"/> DIESEL <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 checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other Fuel Tests EPA 8260B: <input checked="" type="checkbox"/> Gas <input type="checkbox"/> DIESEL <input checked="" type="checkbox"/> Five Oxymates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol Purgeable Halocarbons (HVOCs) EPA 8021 Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 824 Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 825 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"/> PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 606 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"/> W.E.T (STLC) <input type="checkbox"/> TCLP Hexavalent Chromium pH (24h hold time for H ₂ O) Spec Cond. <input type="checkbox"/> Alkalinity 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 CONSULTANTS					
Address: 7977 CAPWELL DRIVE, OAKLAND, CA					
P: (510) 638-8400 x 114		E: edgiacometti@accenv.com			
Bill To: ACC ENVIRONMENTAL		Sampled By: Ed Giacometti			
Attn: ED		Phone ext: 114			
Sample ID	Date	Time	Mat rix	Pres erv.	Number of Containers
B9-W	8/7/03	8:10	A20	12/10/03	5
B10-W	8/6/03	17:05			4
B13-W	8/7/03	8:45			5
B16-W	8/6/03	10:15	V	V	5
B9-8.0	8/6/03	8:00	S	Col	1
B9-11.0		8:05			1
B10-8.0		9:25			1
B10-11.0		9:25			1
B11-18.0		10:55			1
B12-24.0	W	13:55	V	V	1

Project Info.	Sample Receipt
Project Name: 3820 San Leandro Street	# of Containers: 1
Project#: 6651-001.01	Head Space:
PO#:	Temp: 4.7°C
Credit Card#:	Conforms to record:

1) Relinquished by:
Ed Giacometti
Signature _____ Time _____
ED GIACOMETTI 8/6/03
Printed Name _____ Date _____
ACC ENVIRONMENTAL CONSULTANTS
Company

2) Relinquished by:
Steve 1620
Signature _____ Time _____
Printed Name _____ Date 8/8/03
Company

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

T A T	Std 5 Day	72h	48h	24h	Other:
Report: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF <input type="checkbox"/> Global ID _____					
Special Instructions / Comments:					

1) Received by:
Steve 1200
Signature _____ Time _____
Printed Name _____ Date 8/8/03
Company

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

3) Received by:
Dee Harrington 1620
Signature _____ Time _____
Printed Name _____ Date 8/8/03
STL-SF
Company

STL San Francisco

Sample Receipt Checklist

Submission #: 2003- 08 - 0302

Checklist completed by: (initials) DSH Date: 08, 09, 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 ($4^{\circ}C \pm 2$)? Temp: 4.7 °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:

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):

