

GRIBI Associates*Geological and Environmental Consulting Services*

May 13, 2002

Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

MAY 21 2002

Attention: Eva Chu

Subject: Report of Soil Boring Investigation
660 San Pablo Avenue UST Site
Albany, California
GA Project No. 146-01-01

Ladies and Gentlemen:

Gribi Associates is pleased to submit this report on behalf of Mr. Ralph Trueblood for the site located at 660 San Pablo Avenue in Albany, California. A topographic site location map and a detailed site map are attached as Figures 1 and 2, respectively. The following report details environmental investigation activities conducted at the site on March 18, 2002 to assess soil and groundwater conditions in the vicinity of the former 300-gallon waste oil underground storage tank (UST) formerly located at the site.

Background

One 300-gallon waste oil UST was removed from the site by Semco in February 1997. One soil sample collected beneath the removed UST at a depth of six feet below surface contained low levels of gasoline and diesel constituents, 550 milligrams per kilogram (mg/kg) of Total Oil and Grease, 0.030 mg/kg of Tetrachloroethene (PCE), 1.2 mg/kg of Phenanthrene, 1.5 mg/kg of Fluoranthene, and 2.0 mg/kg of Pyrene. Based on the results of UST removal and sampling activities, the Alameda County Department of Environmental Health Services requested that a workplan be submitted to investigate the soil and groundwater quality adjacent to the former UST. On October 1, 1998, Gribi Associates submitted a workplan to the Alameda County Department of Environmental Health Services proposing to advance three soil borings in the vicinity of the former UST area. Ms. Eva Chu of the Alameda County Department of Environmental Health Services approved the workplan in correspondence dated October 26, 1998.

Description of Field Activities

The three investigative borings, IB-1, IB-2, and IB-3, were drilled and sampled on Monday, March 18, 2002. All activities were conducted in accordance with regulatory guidelines and protocols.

Prefield Activities

Prior to implementing field activities, a soil boring installation permit was obtained from the Alameda County Public Works Agency. A copy of this permit is contained in Appendix A. Also, Ms. Eva Chu of the Alameda County Department of Environmental Health Services was notified at least 72 hours prior to conducting field activities. In addition, proposed boring locations were marked with white paint, and Underground Services Alert (USA) was notified at least 48 hours prior to drilling. Also, a private underground utility locator cleared proposed boring locations prior to drilling. Finally, prior to initiating drilling activities, a Site Safety Plan was prepared, and a tailgate safety meeting was conducted with all site workers.

Drilling and Sampling of Investigative Soil Borings

Soil borings IB-1 and IB-2 were advanced inside the project site building and were located to the north and east of the former UST location, respectively. Soil boring IB-3 was located outside of the project site building, immediately south of the former UST location. Soil boring locations are shown on Figure 2. The investigative soil borings were advanced by Gregg Drilling using Geoprobe™ hydraulically-driven soil coring equipment. Soil borings IB-1, IB-2, and IB-3 were advanced into the top of the shallow groundwater table located at total depths of seven and one-half feet, nine and one-half feet, and 16 feet below grade level, respectively.

The Geoprobe coring system utilized for the advancement of the borings allowed for the retrieval of almost continuous soil cores, which were contained in a clear plastic acetate tube nested inside a stainless steel core barrel. After the core barrel was brought to the surface and exposed, the soil core was logged by a qualified Gribi Associates geologist using visual and olfactory senses. Boring logs for the investigative soil borings are contained in Appendix B. Following completion, the investigative borings were grouted to match existing grade using a cement/sand slurry.

A total of eight soil samples were collected from the three soil borings. These soil samples were collected using the following procedure: (1) The filled acetate tube was brought to the surface and exposed for visual examination; (2) The selected sampling interval was collected by cutting the sample and acetate plastic tubing to the desired length; (3) The ends of the selected sample were quickly wrapped with Teflon sheets, capped with plastic end caps, labeled and wrapped tightly with tape; and (4) The sealed soil sample was immediately placed in cold storage for transport to the analytical laboratory under formal chain-of-custody. All coring and sampling equipment was thoroughly cleaned and decontaminated between each sample collection by triple rinsing first with water, then with dilute tri-sodium phosphate solution, and finally with distilled water.

Following the collection of the subsurface soil samples, grab groundwater samples were collected from each of the soil borings. Upon reaching total depth, a three-quarter inch diameter schedule 40 PVC well screen and riser were temporarily installed for the purposes of collecting grab groundwater samples from each boring. The groundwater samples were collected using a clean small diameter bailer, and poured directly into laboratory-supplied containers. Each sample container was then

tightly sealed, labeled, and placed in cold storage for transport to the laboratory under formal chain-of-custody. Note that due to low recharge, only 40-ml VOA vials and half-liter amber jars were filled and preserved for borings IB-2 and IB-3.

Laboratory Analysis of Soil and Groundwater Samples

Gribi Associates conducted the following laboratory analyses for the three soil and three grab groundwater samples collected during the Phase II ESA.

- One soil sample and one grab groundwater sample from each of the three investigative borings were analyzed for the following parameters:

USEPA 8015M Total Petroleum Hydrocarbons as Diesel and (TPH-D)
USEPA 8015M Total Petroleum Hydrocarbons as Motor Oil (TPH-MO)

- Two soil and two groundwater samples, collected from soil borings IB-1 and IB-2, were analyzed for the following parameters:

USEPA 8015M Total Petroleum Hydrocarbons as Gasoline (TPH-G)
USEPA 8020/602 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
USEPA 8020/602 Methyl-t-butyl Ether (MTBE)

- Additionally, the grab groundwater sample collected from soil boring IB-1 was analyzed for the following parameters:

USEPA 8260B Halogenated Volatile Organic Compounds (HVOCs)
USEPA 8270 Semi-Volatile Organic Compounds (SVOCs)

All laboratory analyses were conducted by Acculabs, Inc., a California-certified analytical laboratory, with two-week turn around on lab results.

Results of Phase II ESA

General Subsurface Conditions

Native soils encountered in the three soil borings advanced at the site consisted primarily of grey to reddish-brown gravelly, sandy silts and silty, sandy clays. These units appeared to be laterally and vertically gradational, with only limited noticeable vertical "layering" in each boring and little lateral correlation of specific soil types between borings. Soils encountered in the three borings during drilling exhibited no unusual odors or staining.

Groundwater was encountered at about 7.5 feet in depth in boring IB-1 and at about 11 feet in depth in borings IB-2 and IB-3. Groundwater recharge into the borings was fair in boring IB-1 and poor in borings IB-2 and IB-3. Groundwater encountered in the three soil borings exhibited no unusual odors or sheens.

Results of Laboratory Analysis

Soil and groundwater laboratory analytical results are summarized in Table 1. The laboratory data report for these analyses is contained in Appendix C.

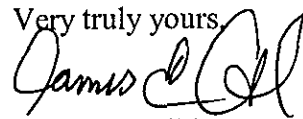
Conclusions and Recommendations

Based on the results of this investigation, it appears that releases related to the former site waste oil UST have not significantly impacted soil and groundwater beneath the site. A soil sample collected at the approximate soil/groundwater interface at 7.5 feet in depth in east boring IB-1 contained no detectable hydrocarbon constituents, and the grab groundwater sample from this boring contained very low levels of some gasoline- and diesel-range hydrocarbons, with no detectable Halogenated Volatile Organic Compounds (HVOCs). A soil sample collected at the approximate soil/groundwater interface at 9.5 feet in depth in north boring IB-2 contained 700 mg/kg of Total Petroleum Hydrocarbons as Motor Oil (TPH-MO), with no detectable gasoline-range hydrocarbons, and the grab groundwater sample from this boring contained only 0.0010 milligrams per liter (mg/l) of Benzene, 0.0097 mg/l of Toluene, and 0.00086 mg/l of Xylenes, with no detectable TPH-G, TPH-D or TPH-MO. The soil and grab groundwater samples from south boring IB-3 contained no detectable hydrocarbon constituents.

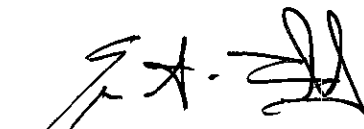
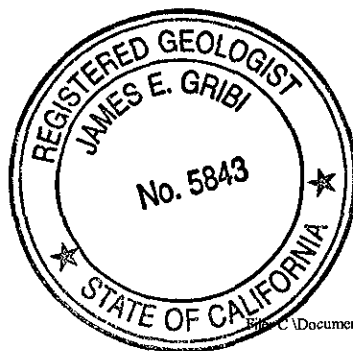
Given the very limited impacts in soil and groundwater relative to the former waste oil UST, as well as the downgradient commercial land uses and the lack of beneficial groundwater uses in the area, we recommend that regulatory closure be granted for this site.

We appreciate this opportunity to provide this report for your review. Please contact us if there are questions or if additional information is required.

Very truly yours,



James E. Gribi
Registered Geologist
California No. 5843



Eric G. Hetrick
Project Geologist

EGH:ct
Enclosure

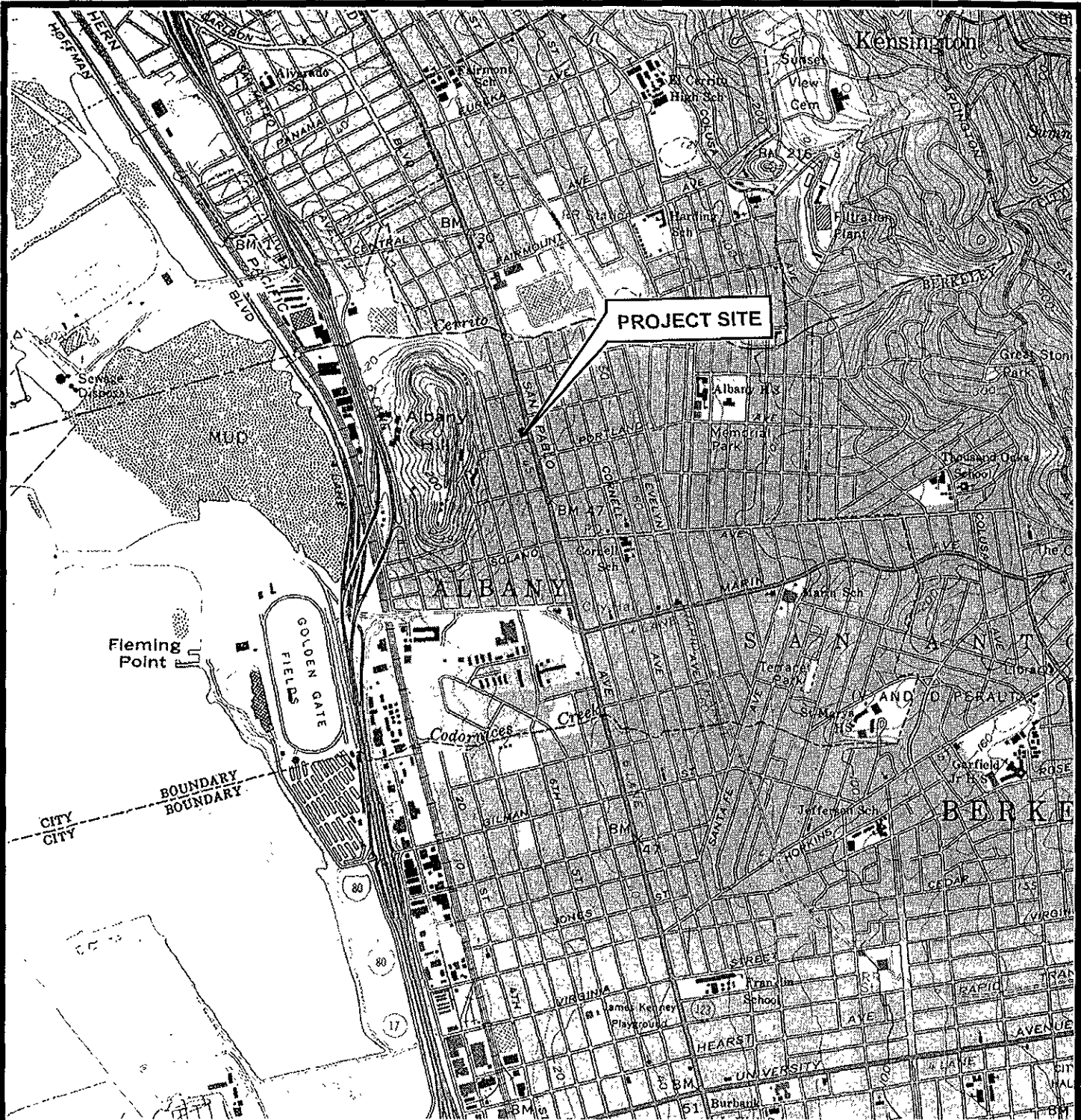
cc Mr. Ralph Trueblood

Table 1 SUMMARY OF SOIL AND WATER ANALYTICAL RESULTS 660 San Pablo Avenue UST Site												
Sample ID	Sample Matrix	Sample Depth	Concentration (ppm)									
			TPH-D	TPH-MO	TPH-G	B	T	E	X	MTBE	HVOCs	SVOCs
IB-1.2	Soil	7.5 ft.	<1.0	<10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	---	---
IB-1W	Water	---	<0.175 ¹	2.80	0.052	<0.0005	0.016	<0.0005	0.00095	<0.005	<0.00050 ²	0.040 ³
IB-2.3	Soil	9.5 ft.	<130 ¹	700	<1.0	<0.005	<0.005	<0.005	<0.005	<0.050	---	---
IB-2W	Water	---	<0.050	<0.100	<0.050	0.0010	0.0097	<0.0005	0.00086	<0.005	---	---
IB-3.3	Soil	11.5 ft.	<1.0	<10	---	---	---	---	---	---	---	---
IB-3W	Water	---	<0.050	<0.100	---	---	---	---	---	---	---	---

TPH-G = Total Petroleum Hydrocarbons as Gasoline.
 TPH-D = Total Petroleum Hydrocarbons as Diesel.
 TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 MTBE = Methyl-t-Butyl Ether
 HVOCs = Halogenated Volatile Organic Compounds

SVOCs = Semi-Volatile Organic Compounds
 <1.0 = Not detected above the expressed detection level.
 -- = Not analyzed for this analyte.
 1 = Lab report states: "Elevated TPH as Diesel Reporting Limit due to oil range interference."
 2 = No detectable levels of 28 HVOC analytes.
 3 = Sample contained 0.015 ppm of Acenaphthene, 0.012 ppm of Fluoranthene, and 0.013 ppm of Pyrene. No detectable levels of remaining 62 SVOC compounds.

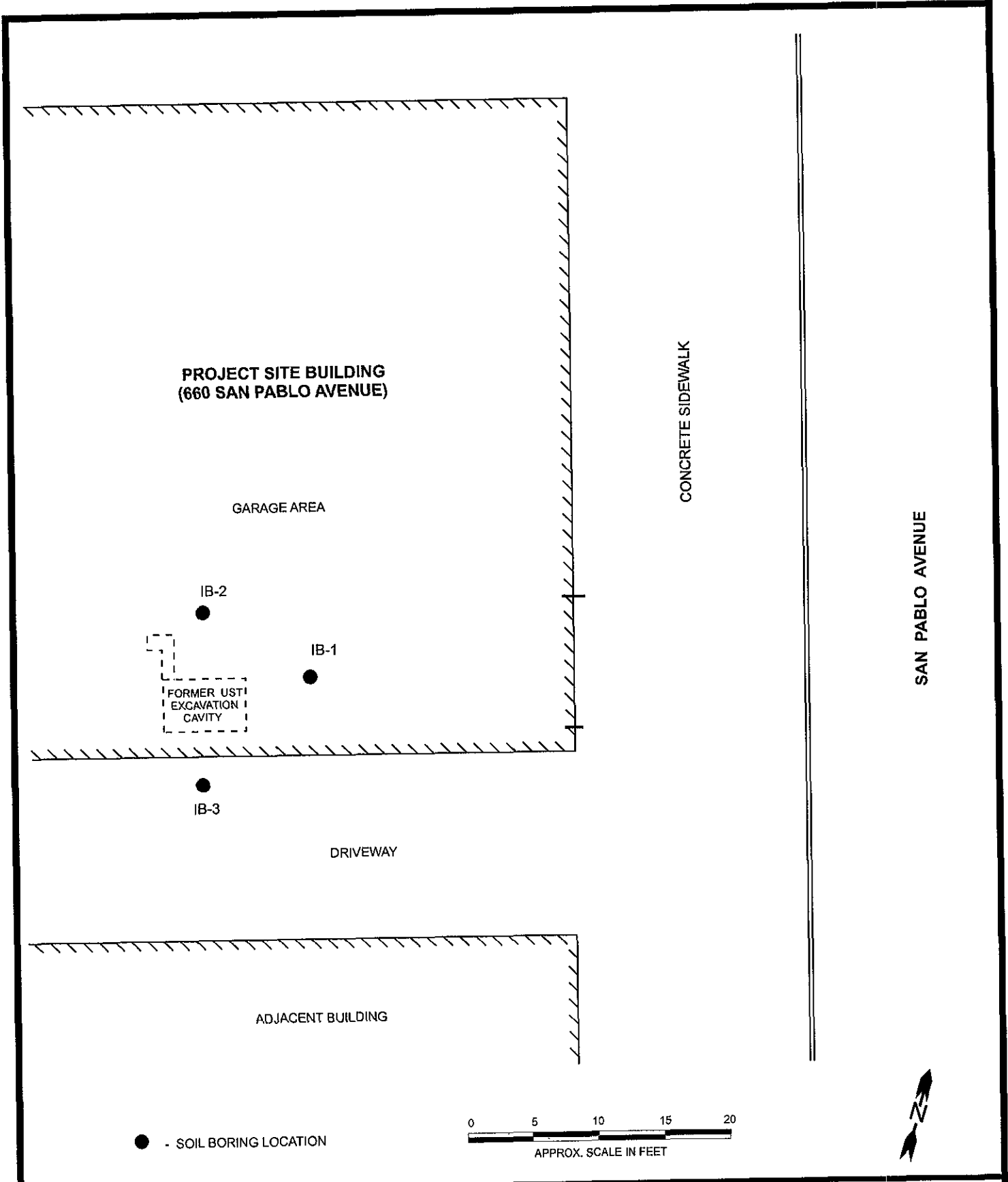
FIGURES



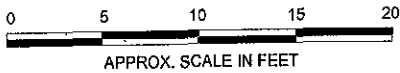
TOPOGRAPHY FROM USGS RICHMOND, CALIFORNIA
7 5-MINUTE QUADRANGLE MAPS, (TOPO! 1997).



DESIGNED BY:	CHECKED BY:	SITE VICINITY MAP	DATE: 10/01/98	FIGURE. 1
DRAWN BY: JG	SCALE 1:24,000		GRIBI Associates	
PROJECT NO: 137-01-01		660 SAN PABLO AVENUE UST SITE ALBANY, CALIFORNIA		



● - SOIL BORING LOCATION



DESIGNED BY:	CHECKED BY:
DRAWN BY: JG	SCALE:
PROJECT NO: 146-01-01	

SITE PLAN

660 SAN PABLO AVENUE UST SITE
ALBANY, CALIFORNIA

DATE: 05/15/02	FIGURE: 2
GRIBI Associates	

APPENDIX A
DRILLING PERMIT



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
 300 ELMHURST ST. HAYWARD CA. 94544-1795
 PHONE (510) 679-3334 MARLON MAGALLANES/FRANK CODD (510) 670-3753
 FAX (510) 782-1339

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT: Albany Hill Auto
140 San Pablo Ave
Albany CA 94706

FOR OFFICE USE

PERMIT NUMBER W02-0320
 WELL NUMBER _____
 APN _____

CLIENT
 Name: Ralph Trueblood
 Address: 4400 Hwy 88
 City: Berkeley CA Phone: 947/241-4570
 Fax: 947/208

APPLICANT
 Name: Jim Grubi
Grubi Associates Fax: 925/248-7263
 Address: 1350 May St Phone: 925/748-7743
 City: Berkeley CA Fax: 925/748-7743

TYPE OF PROJECT
 New Construction : Geotechnical Investigation :
 Schedule Position : General :
 Water Supply : Contamination :
 Monitoring : Well Destruction :

PROPOSED WATER SUPPLY WELL USE
 New Domestic : Replacement Domestic :
 Municipal : Irrigation :
 Industrial : Other: Sanitation X 3

DRILLING METHOD
 Mud Rotary : Air Rotary : Auger :
 Cable : Other : Geoprobe

DRILLER'S LICENSE NO. 485165 (Gregg)

WELL PROJECTS
 Drill Hole Diameter _____ in Maximum Depth _____ ft.
 Casing Diameter _____ in Number _____
 Surface Seal Depth _____ ft.

GEOTECHNICAL PROJECTS
 Number of Borings _____ Maximum Depth _____ ft.
 Hole Diameter _____ in

ESTIMATED STARTING DATE 3/15/02
 ESTIMATED COMPLETION DATE 3/16/02

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-61

APPLICANT'S SIGNATURE [Signature] DATE 3/13/02
 PLEASE PRINT NAME Jim Grubi

Rev. 4-00

PERMIT CONDITIONS
 Circled 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 work the original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 30 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

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

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout and mixture. Upper two-three feet replaced in kind or with compacted outfill.

E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

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

G. SPECIAL CONDITIONS

APPROVED [Signature] DATE 3-14-02

APPENDIX B
SOIL BORING LOGS

LOG OF BORING

GRIBI Associates

SHEET 1 OF 1

BORING NUMBER: **IB-1**
 BORING LOCATION:
 EAST OF FORMER WASTE OIL UST
 BORING TYPE: INVESTIGATIVE BORING
 PROJECT NAME:
 TRUEBLOOD FACILITY
 660 SAN PABLO AVENUE
 ALBANY, CALIFORNIA
 PROJECT NUMBER: 146-01-01

START DATE: 03/18/02
 COMPLETION DATE: 03/18/02

DRILLING CONTRACTOR: GREGG DRILLING
 DRILLING METHOD: DIRECT PUSH
 BOREHOLE DIAMETER: 2-1/2 INCHES
 COMPLETION METHOD: GROUTED
 BORING TOTAL DEPTH: 12.0 FEET
 GROUNDWATER DEPTH: 7.5 FEET

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & WATER LEVEL	USCS	LOG OF MATERIAL	PIEZOMETER WELL INSTALLATION
				▽ - INITIAL ▽ - FINAL		0 - 1.0 ft. CONCRETE and GRAVEL 1.0 - 5.0 ft. Black-grey CLAY, firm, no odors or staining observed	
5	IB 1.1	3.5 FT	[Interval bar]		CL		
					GC	5.0 - 9.0 ft. Grey-brown GRAVEL with some clay and trace sand, wet, no odors or staining noted	
10	IB 1.2	7.5 FT	[Interval bar]	▽ ▽	OL	9.0 - 12.0 ft. Grey-green SILT with some clay and trace sand, wet, no odors or staining observed	
15						Total Depth 12.0 ft. Groundwater Depth 7.5 ft	
20							
25							

LOG OF BORING

GRIBI Associates

SHEET 1 OF 1

BORING NUMBER : **IB-2**
 BORING LOCATION:
 NORTH OF FORMER WASTE OIL UST
 BORING TYPE: INVESTIGATIVE BORING
 PROJECT NAME:
 TRUEBLOOD FACILITY
 660 SAN PABLO AVENUE
 ALBANY, CALIFORNIA
 PROJECT NUMBER: 146-01-01

START DATE: 03/18/02
 COMPLETION DATE: 03/18/02

DRILLING CONTRACTOR: GREGG DRILLING
 DRILLING METHOD: DIRECT PUSH
 BOREHOLE DIAMETER: 2-1/2 INCHES
 COMPLETION METHOD: GROUTED
 BORING TOTAL DEPTH: 16.0 FEET
 GROUNDWATER DEPTH: 10.88 FEET

DEPTH SCALE (FEET)	SAMPLE NO	SAMPLE DEPTH	INTERVAL	PID READING & WATER LEVEL ▽ - INITIAL ▽ - FINAL	USCS	LOG OF MATERIAL	PIEZOMETER WELL INSTALLATION
						0 - 1.0 ft. CONCRETE and GRAVEL	
5	IB 2.1	3.5 FT	█		CL	1.5 - 6.0 ft. Reddish-brown dark grey CLAY with some silt, moist, no odors	
	IB 2.2	7.5 FT	█		SC	6.0 - 8.5 ft Reddish-brown SAND with some clay and silt and trace gravel, moist, no odors	
10	IB 2.2	9.5 FT	█	▽ ▽		8.5 - 14.0 ft Brown-grey SAND with some silt and sand, wet, no odors	
15					CL	14.0 - 16.0 ft. Red-tan CLAY with some sand, no odors or staining observed	
						Total Depth 16.0 ft. Groundwater Depth 10.88 ft.	
20							
25							

LOG OF BORING

GRIBI Associates

SHEET 1 OF 1

BORING NUMBER : **IB-3**
 BORING LOCATION:
 SOUTH OF FORMER WASTE OIL UST
 BORING TYPE: INVESTIGATIVE BORING
 PROJECT NAME:
 TRUEBLOOD FACILITY
 660 SAN PABLO AVENUE
 ALBANY, CALIFORNIA
 PROJECT NUMBER: 146-01-01

START DATE: 03/18/02
 COMPLETION DATE: 03/18/02

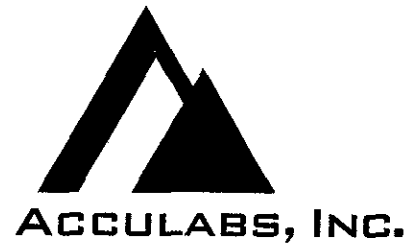
DRILLING CONTRACTOR: GREGG DRILLING
 DRILLING METHOD: DIRECT PUSH
 BOREHOLE DIAMETER: 2-1/2 INCHES
 COMPLETION METHOD: GROUTED
 BORING TOTAL DEPTH: 16.0 FEET
 GROUNDWATER DEPTH: 10.75 FEET

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & WATER LEVEL	USCS	LOG OF MATERIAL	PIEZOMETER WELL INSTALLATION
				▼ - INITIAL ▼ - FINAL		0 - 1.0 ft. ASPHALT and GRAVEL	
5	IB 3.1	3.5 FT	█		CL	1.0 - 5.0 ft. Black CLAY with some silt and trace gravel, moist, no odors or staining observed	
	IB 3.2	7.0 FT	█		GC	5.0 - 9.0 ft. Grey-brown GRAVEL with some clay and trace sand, moist, no odors or staining noted	
10				▼ ▼		9.0 - 13.0 ft. Reddish-brown and dark-grey SAND with some clay, moist, no odors or staining observed	
	IB 3.3	11.5 FT	█		SC	13.0 - 16.0 ft. Reddish-brown SAND with some clay and gravel, wet, no odors or staining observed	
15						Total Depth 16.0 ft. Groundwater Depth 10.75 ft	
20							
25							

APPENDIX C

**LABORATORY REPORT AND
CHAIN-OF-CUSTODY RECORD**

Sample Log 23568
March 27, 2002



Jim Gribi
Gribi Associates
1350 Hayes Street, #C-14
Benicia, CA 94510

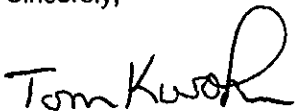
Subject : 2 Water and 9 Soil samples
Project Name : Albany Hill Auto
Project Number : 146-01-01

Dear Mr. Gribi,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Acculabs - Davis is certified by the State of California (# 2330), the State of Arizona (AZ0583) and the State of Nevada (CA00039-2000-32). If you have any questions regarding procedures or results, please call me at 530-757-0920.

Sincerely,



Tom Kwoka

Sample Log 23568
March 27, 2002

Subject : 2 Water and 9 Soil samples
Project Name : Albany Hill Auto
Project Number : 146-01-01

Case Narrative

Analysis: TPH as Diesel & Motor Oil

Due to a computer hard drive failure, the normal TPH as Diesel & Motor Oil reports with chromatograms are unavailable. If you require chromatograms for your project report, please contact the lab and chromatograms can be provided.


Tom Kwoka



Sample Log 23568

MTBE (Methyl-t-butyl ether) By EPA Method 8020

From : Albany Hill Auto (Proj. # 146-01-01)


Sampled : 03/18/02

Received : 03/19/02

Matrix : Water

SAMPLE	Date Analyzed	(MRL) ug/L	Measured Value ug/L
IB-1W	03/26/02	(5.0)	<5.0
IB-2W	03/26/02	(5.0)	<5.0

Approved By:



Tom Kwoka
Lab Director



Sample Log 23568

MTBE (Methyl-t-butyl ether) By EPA Method 8020

From : Albany Hill Auto (Proj. # 146-01-01)

Sampled : 03/18/02

Received : 03/19/02

Matrix : Soil

SAMPLE	Date Analyzed	(MRL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>
IB-1.2 (7.5')	03/26/02	(.050)	<.050
IB-2.3 (9.5')	03/27/02	(.050)	<.050

Approved By:



Tom Kwoka
Lab Director

Sample Log 23568

23568-02

Sample: IB-1.2 (7.5')

From : Albany Hill Auto (Proj. # 146-01-01)

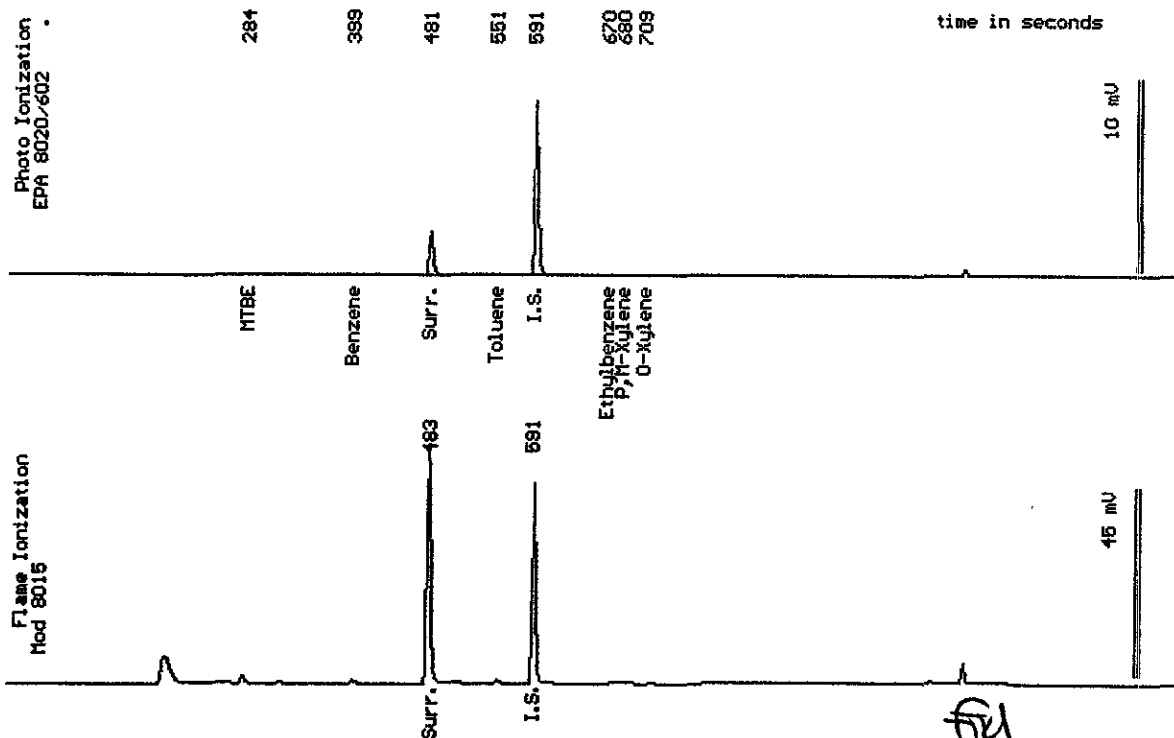
Sampled : 03/18/02

Dilution : 1:1

Matrix : Soil

Run Log : 2215J

Parameter	(MRL) mg/kg	Measured Value mg/kg
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(1.0)	<1.0
Surrogate Recovery		103 %



Date Analyzed: 03-24-02
 Column : 0.53mm X 60m Restek Rtx-1301

St
 Stewart Podolsky
 Senior Chemist

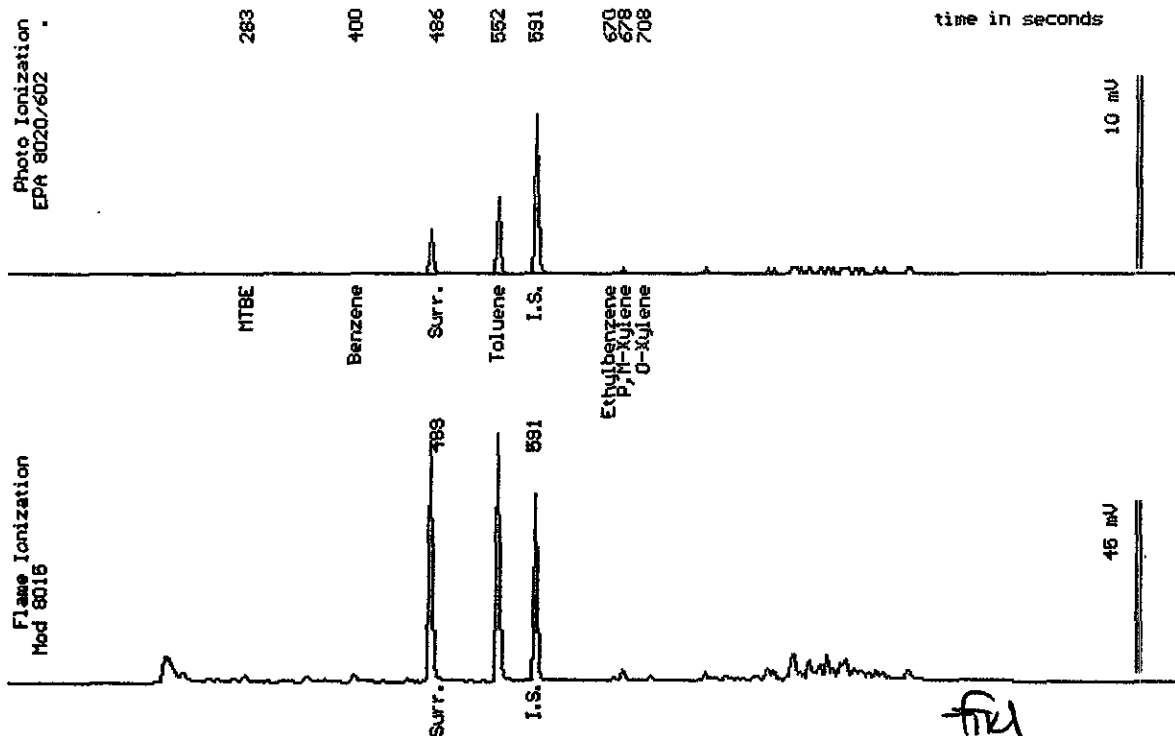
Sample Log 23568
23568-03

Sample: IB-1W

From : Albany Hill Auto (Proj. # 146-01-01)
 Sampled : 03/18/02
 Dilution : 1:1
 Matrix : Water

Run Log : 2215I

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	16
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	.95
TPH as Gasoline	(50)	52
Surrogate Recovery		106 %



Date Analyzed: 03-26-02
 Column : 0.53mm X 60m Restek Rtx-1301

Stewart
 Stewart Podolsky
 Senior Chemist

Sample Log 23568
23568-06

Sample: IB-2.3 (9.5')

From : Albany Hill Auto (Proj. # 146-01-01)

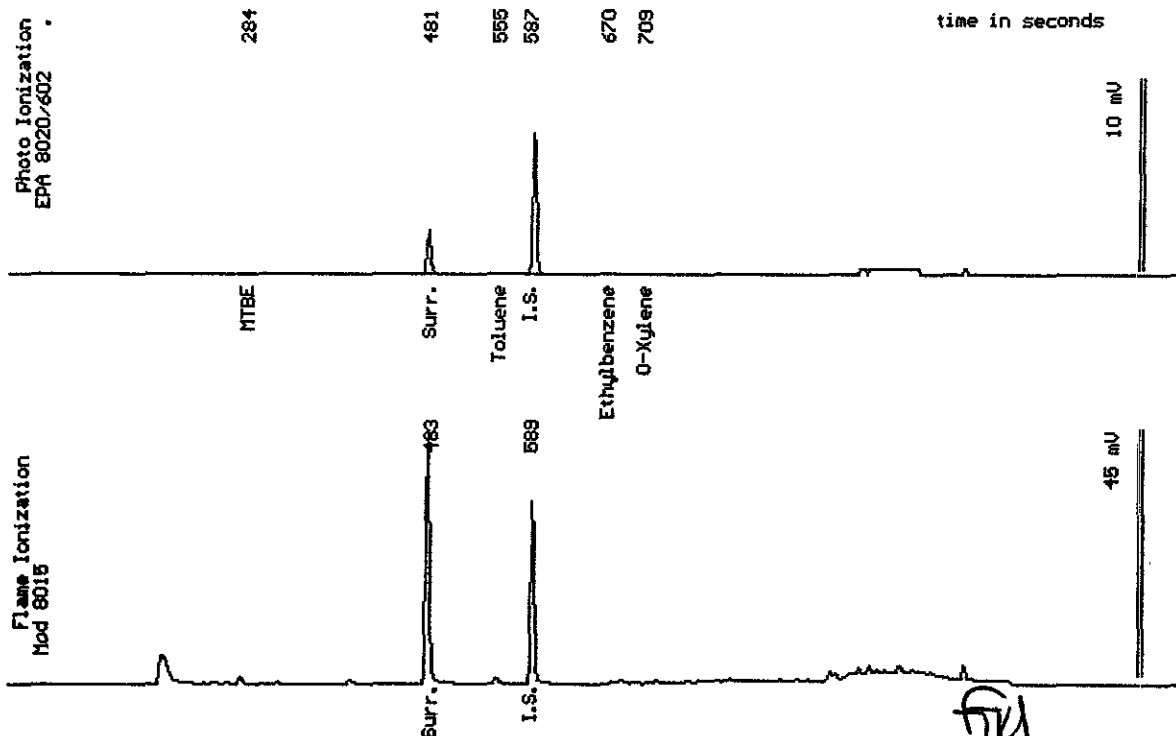
Sampled : 03/18/02

Dilution : 1:1

Run Log : 2215J

Matrix : Soil

Parameter	(MRL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$
Benzene	(.0050)	<.0050
Toluene	(.0050)	<.0050
Ethylbenzene	(.0050)	<.0050
Total Xylenes	(.0050)	<.0050
TPH as Gasoline	(1.0)	<1.0
Surrogate Recovery		107 %



Date Analyzed: 03-27-02
Column : 0.83mm X 60m Restek Rtx-1301

Stu
Stewart Podolsky
Senior Chemist

Sample Log 23568

23568-07

Sample: IB-2W

From : Albany Hill Auto (Proj. # 146-01-01)

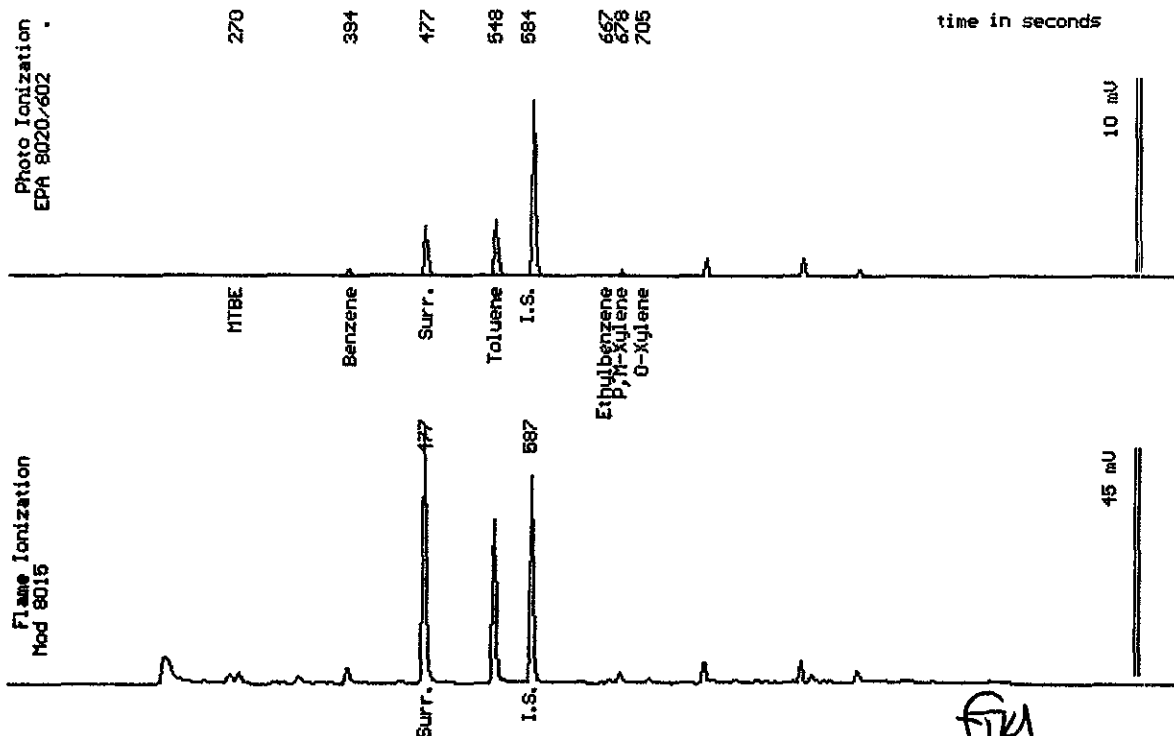
Sampled : 03/18/02

Dilution : 1:1

Run Log : 2215J

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	1.0
Toluene	(.50)	9.7
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	.86
TPH as Gasoline	(50)	<50
Surrogate Recovery		97 %



Date Analyzed: 03-26-02
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Dodolsky
Senior Chemist



ACCULABS, INC.
 March 27, 2002
 Sample Log 23568

QC Report for EPA 8020 & Modified EPA 8015
 Run Log : 2215J
 From : Albany Hill Auto (Proj. # 146-01-01)
 Sample(s) Received : 03/19/02

Parameter	Matrix Spike % Recovery	Matrix Spike Duplicate % Recovery	RPD *
Benzene	91	97	6
Ethylbenzene	96	101	6
TPH as Gasoline	110	117	6

* RPD = Relative Percent Difference

Parameter	Laboratory Control Sample % Recovery
-----------	---

Benzene	90
Ethylbenzene	100
Gasoline	98

Parameter	Method Blank
-----------	--------------

Benzene	<0.005 mg/Kg
Toluene	<0.005 mg/Kg
Ethylbenzene	<0.005 mg/Kg
Total Xylenes	<0.005 mg/Kg
TPH as Gasoline	<1.0 mg/Kg


 Tom Kwoka
 Lab Director



ACCULABS, INC.
 March 27, 2002
 Sample Log 23568


QC Report for EPA 8020 & Modified EPA 8015
 Run Log : 2215H,I
 From : Albany Hill Auto (Proj. # 146-01-01)
 Sample(s) Received : 03/19/02

Parameter	Matrix Spike % Recovery	Matrix Spike Duplicate % Recovery	RPD *
Benzene	93	96	3
Ethylbenzene	101	103	3
TPH as Gasoline	98	99	2

* RPD = Relative Percent Difference

Parameter	Laboratory Control Sample % Recovery
Benzene	89
Ethylbenzene	97
Gasoline	100

Parameter	Method Blank
Benzene	<0.50 ug/L
Toluene	<0.50 ug/L
Ethylbenzene	<0.50 ug/L
Total Xylenes	<0.50 ug/L
TPH as Gasoline	<50 ug/L


 Tom Kwoka
 Lab Director



Acculabs Inc. - Davis

TPH Diesel by 8015 Mod QC Report

Matrix: Soil

Date Extracted: 03/25/2002

QC Batch: DS020303


Date Analyzed: 03/25/2002

QC Limits Set:5/30/01

Parameter	Spike Conc	LCS	Matrix spike	Matrix spike dup	RPD	Control Chart Limits	
	mg/Kg	% Rec	% Rec	% Rec		Lower	Upper
TPH as Diesel	33	113	119	98	19	72	136

	MDL	Measured Value
	mg/Kg	mg/Kg
Method Blank		
TPH as Diesel	(1.0)	<1.0
TPH as Motor Oil	(10)	<10

Spiked Sample ID : 23586-01



 Tom Kwoka
 Laboratory Director



Acculabs Inc. - Davis

TPH Diesel by 8015 Mod QC Report

Matrix: Water

Date Extracted: 03/25/02

QC Batch: DW020305

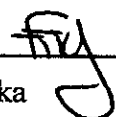
Date Analyzed: 03/26/02

QC Limits Set: 5/30/01

Parameter	Spike Conc	LCS	LCSD	RPD
	ug/L	% Rec	% Rec	
TPH as Diesel	1000	83	82	1.2

Control Chart Limits	
Lower	Upper
81	130

	MDL	Measured value
	ug/L	ug/L
Method Blank	(50)	<50
TPH as Diesel	(100)	<100


Tom Kwoka
Laboratory Director



ACCULABS, INC.

Sample Log 23568

March 27, 2002

VOCs by EPA 8260B

Sample Name : **IB-1W**

Project Name : Albany Hill Auto

Project Number : 146-01-01

Sample Date : 03/18/02

Date Analyzed : 03/27/02

Date Received : 03/19/02

Dilution : 1:1

Sample Matrix : Water

Lab Number : 23568-03

Parameter	MRL	Measured Conc.	Units
Chloromethane	1.0	<1.0	ug/L
Vinyl Chloride	1.0	<1.0	ug/L
Bromomethane	1.0	<1.0	ug/L
Chloroethane	1.0	<1.0	ug/L
Trichlorofluoromethane	1.0	<1.0	ug/L
1,1-Dichloroethene	0.50	<0.50	ug/L
Methylene Chloride	1.0	<1.0	ug/L
t-1,2-Dichloroethene	0.50	<0.50	ug/L
1,1-Dichloroethane	0.50	<0.50	ug/L
c-1,2-Dichloroethene	0.50	<0.50	ug/L
Chloroform	0.50	<0.50	ug/L
1,1,1-Trichloroethane	0.50	<0.50	ug/L
Carbon Tetrachloride	0.50	<0.50	ug/L
1,2-Dichloroethane	0.50	<0.50	ug/L
Trichloroethene	0.50	<0.50	ug/L
1,2-Dichloropropane	0.50	<0.50	ug/L
Bromodichloromethane	0.50	<0.50	ug/L
c-1,3-Dichloropropene	0.50	<0.50	ug/L
t-1,3-Dichloropropene	0.50	<0.50	ug/L
1,1,2-trichloroethane	0.50	<0.50	ug/L
Tetrachloroethene	0.50	<0.50	ug/L
Dibromochloromethane	0.50	<0.50	ug/L
Chlorobenzene	0.50	<0.50	ug/L
Bromoform	0.50	<0.50	ug/L
1,1,2,2-Tetrachloroethane	0.50	<0.50	ug/L
1,3-Dichlorobenzene	0.50	<0.50	ug/L
1,4-Dichlorobenzene	0.50	<0.50	ug/L
1,2-Dichlorobenzene	0.50	<0.50	ug/L
Dibromofluoromethane (surr)		112	% Recovery
Toluene - d8 (surr)		100	% Recovery
4-Bromofluorobenzene (surr)		108	% Recovery

MRL = Method Reporting Limit Conc. = Concentration

B = Analyte was detected in Method Blank.

E = Concentration exceeded calibration range.

Approved By : Tom Kwoka

Acculabs Inc. - Davis

EPA 8260B QC Report

Matrix: Water


Date Analyzed: 3/27/02

QC Batch: VW020327

QC Limits Set: 11/3/00

Parameter	Spike Conc ug/L	LCS % Rec	LCSD % Rec	RPD	Control Chart Limits	
					Lower	Upper
1,1-Dichloroethene	50	83	56	38.3	26	139
Benzene	50	97	112	14.4	83	127
Trichloroethene	50	96	109	13.6	64	120
Toluene	50	92	116	22.8	64	129
Chlorobenzene	50	93	130	33.3	88	112

Surrogate Compound	Control Chart Limits	
	Lower	Upper
Dibromofluoromethane	67	140
Toluene-d8	58	131
4-Bromofluorobenzene	56	135



 Tom Kwoka
 Laboratory Director



EPA 8270C

Sample Name : **IB-1W**

Project Name : Albany Hill Auto
 Project Number : 146-01-01
 Sample Date : 03/18/02
 Date Extracted : 03/25/02
 Extr. Method : EPA 3510
 QC Batch : BW020303

Date Analyzed : 03/25/02
 Date Received : 03/19/02
 Dilution : 1:1
 Sample Matrix : Water
 Lab Number : 23568-03

Parameter	MRL	Measured Conc.	Units
N-Nitrosodimethylamine	10	<10	ug/L
Phenol	10	<10	ug/L
Aniline	10	<10	ug/L
bis(2-Chloroethyl)ether	10	<10	ug/L
2-Chlorophenol	10	<10	ug/L
1,3-Dichlorobenzene	10	<10	ug/L
1,4-Dichlorobenzene	10	<10	ug/L
Benzyl Alcohol	20	<20	ug/L
1,2-Dichlorobenzene	10	<10	ug/L
2-Methylphenol	10	<10	ug/L
bis(2-Chloroisopropyl)ether	10	<10	ug/L
4-Methylphenol	10	<10	ug/L
N-Nitroso-di-n-propylamine	10	<10	ug/L
Hexachloroethane	10	<10	ug/L
Nitrobenzene	10	<10	ug/L
Isophorone	10	<10	ug/L
2-Nitrophenol	10	<10	ug/L
2,4-Dimethylphenol	10	<10	ug/L
bis(2-Chloroethoxy)methane	10	<10	ug/L
2,4-Dichlorophenol	10	<10	ug/L
Benzoic Acid	50	<50	ug/L
1,2,4-Trichlorobenzene	10	<10	ug/L
Naphthalene	10	<10	ug/L
4-Chloroaniline	20	<20	ug/L
Hexachlorobutadiene	10	<10	ug/L
4-Chloro-3-methylphenol	20	<20	ug/L
2-Methylnaphthalene	10	<10	ug/L
Hexachlorocyclopentadiene	10	<10	ug/L
2,4,6-Trichlorophenol	10	<10	ug/L
2,4,5-Trichlorophenol	10	<10	ug/L
2-Chloronaphthalene	10	<10	ug/L
2-Nitroaniline	50	<50	ug/L
Dimethylphthalate	10	<10	ug/L

MRL = Method Reporting Limit

B = Parameter detected in Method Blank.

E = Concentration exceeded calibration range.

Approved By :


 Tom Kwoka



EPA 8270C

Sample Name : **IB-1W**

Project Name : Albany Hill Auto
Project Number : 146-01-01
Sample Date : 03/18/02
Date Extracted : 03/25/02
Extr. Method : EPA 3510
QC Batch : BW020303

Date Analyzed : 03/25/02
Date Received : 03/19/02
Dilution : 1:1
Sample Matrix : Water
Lab Number : 23568-03

Parameter	MRL	Measured Conc.	Units
2,6-Dinitrotoluene	10	<10	ug/L
Acenaphthylene	10	<10	ug/L
3-Nitroaniline	50	<50	ug/L
Acenaphthene	10	15	ug/L
2,4-Dinitrophenol	50	<50	ug/L
4-Nitrophenol	50	<50	ug/L
Dibenzofuran	10	<10	ug/L
2,4-Dinitrotoluene	10	<10	ug/L
Diethylphthalate	10	<10	ug/L
4-Chlorophenyl-phenylether	10	<10	ug/L
Fluorene	10	<10	ug/L
4-Nitroaniline	50	<50	ug/L
4,6-Dinitro-2-methylphenol	50	<50	ug/L
N-Nitrosodiphenylamine	10	<10	ug/L
Azobenzene	10	<10	ug/L
4-bromophenyl Phenyl Ether	10	<10	ug/L
Hexachlorobenzene	10	<10	ug/L
Pentachlorophenol	50	<50	ug/L
Phenanthrene	10	<10	ug/L
Anthracene	10	<10	ug/L
Di-n-butylphthalate	10	<10	ug/L
Fluoranthene	10	12	ug/L
Benzidine	20	<20	ug/L
Pyrene	10	13	ug/L
Butylbenzylphthalate	10	<10	ug/L
Benzo(a)anthracene	10	<10	ug/L
3-3'-Dichlorobenzidine	20	<20	ug/L
Chrysene	10	<10	ug/L
bis(2-Ethylhexyl)phthalate	10	<10	ug/L
Di-n-octylphthalate	10	<10	ug/L
Benzo(b)fluoranthene	10	<10	ug/L
Benzo(k)fluoranthene	10	<10	ug/L
Benzo(a)pyrene	10	<10	ug/L

MRL = Method Reporting Limit

B = Parameter detected in Method Blank.

E = Concentration exceeded calibration range.

Approved By :

Tom Kwoka



EPA 8270C

Sample Name : **IB-1W**

Project Name : Albany Hill Auto
 Project Number : 146-01-01
 Sample Date : 03/18/02
 Date Extracted : 03/25/02
 Extr. Method : EPA 3510
 QC Batch : BW020303

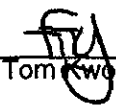
Date Analyzed : 03/25/02
 Date Received : 03/19/02
 Dilution : 1:1
 Sample Matrix : Water
 Lab Number : 23568-03

Parameter	MRL	Measured Conc.	Units
Indeno(1,2,3-c,d)pyrene	10	<10	ug/L
Dibenzo(a,h)anthracene	10	<10	ug/L
Benzo(g,h,i)perylene	10	<10	ug/L
2-Fluorophenol		28	% Recovery
Phenol-d5		20	% Recovery
Nitrobenzene-d5		58	% Recovery
2-Fluorobiphenyl		45	% Recovery
2,4,6-Tribromophenol		45	% Recovery
Terphenyl-d14		28	% Recovery

MRL = Method Reporting Limit

B = Parameter detected in Method Blank.

E = Concentration exceeded calibration range.

Approved By : 
 Tom Kwoka

Acculabs Inc. - Davis

EPA 8270C QC Report

Matrix: Water

Date Extracted: 3/25/02

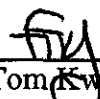
QC Batch: BW020303

Date Analyzed: 3/25/02

QC Limits Set: 11/3/00

Parameter	Spike Conc ug/L	LCS % Rec	LCSD % Rec	RPD	Control Chart Limits	
					Lower	Upper
Phenol	200	28	24	14.4	16	43
2-Chlorophenol	200	83	79	4.9	53	93
1,4-Dichlorobenzene	100	81	77	4.6	44	94
N-Nitroso-di-n-propylamine	100	94	90	3.8	46	112
1,2,4-Trichlorobenzene	100	81	78	3.8	47	107
4-Chloro-3-methylphenol	200	93	85	8.7	46	108
Acenaphthene	100	88	84	4.4	63	105
4-Nitrophenol	200	30	26	14.3	5	50
2,4-Dinitrotoluene	100	91	86	5.6	36	115
Pentachlorophenol	200	90	87	3.9	38	134
Pyrene	100	105	92	12.7	34	110

Surrogate Compounds	Control Chart Limits	
	Lower	Upper
2-Fluorophenol	20	65
Phenol-d5	13	47
Nitrobenzene-d5	49	115
2-Fluorobiphenyl	41	117
2,4,6-Tribromophenol	39	123
Terphenyl-d14	35	127



 Tom Kwoka
 Laboratory Director

Acculabs Inc.

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 602-780-4800 Fax 780-7695
 303-277-9514 Fax 277-9512
 702-355-0202 Fax 355-0817
 530-757-0920 Fax 753-6091

Lab Number

23568

Report
 Due Date:

Client Gribi Associates		PUBLIC WATER SUPPLY INFORMATION	
Address 1350 Hayes Street, Ste C-14		System Name	
City, State & Zip Benicia, CA 94510		PWS No.	Report to State/EPA Y N
Contact Jim Gribi		POE No.	DWR No.
Phone 707/748-7743	Project Name ALBANY HILL AUTO	Collection Point	
Fax 707/748-7763	Project Number 146-01-01	Collector's Name	
P.O. Number	Fax Results Y N	Page 2 of 4	Location (City)

SAMPLE TYPE CODES:			Sample Type	Compliance	Analyses Requested	
DW = drinking water	TB = travel blank	Compliance Monitoring			TPH-GBTEX/MTBE TPH-D/MO SVOC'S (8270) HVOC'S (8260B) HOLD	
WW = waste water	SD = solid	Y N				
MW = monitoring well	SO = soil					
HW = hazardous waste	SL = sludge					
TURNAROUND TIME REQUESTED:						
Standard	Lab Director Approval					
RUSH						
Special						

CLIENT'S SAMPLE ID/LOCATION	Date	Time	S	1	X	X	X	X	X	X	X	X	X	X	X	X	X	Spl. No.	
IB-1.1 (3.5')	3/18/02		S	1														X	01
IB-1.2 (7.5')	3/18/02		S	1	X	X													02
IB-1W	3/18/02		W	7	X	X	X	X											03
IB-2.1 (3.5')	3/18/02		S	1														X	04
IB-2.2 (7.5')	3/18/02		S	1														X	05
IB-2.3 (9.5')	3/18/02		S	1	X	X													06
IB-2W	3/19/02		W	4	X	X													07
IB-3.1 (3.5')	3/18/02		S	1														X	08
IB-3.2 (7.0')	3/18/02		S	1														X	09
IB-3.3 (11.5')	3/18/02		S	1		X													10
IB-3W	3/19/02		S	3		X													11

Instructions/Comments/Special Requirements:

Sample ID	Date	Time	Samples Requisitioned By	Samples Received By
Received Cold Y N	3-19-02	1820	<i>[Signature]</i>	<i>[Signature]</i>
Custody Seals Y N				
Seals Intact Y N				
No. of Containers				

Payment must be received by the date shown on the invoice or any discount is void.