REPORT OF SOIL INVESTIGATION

California Syrup and Extract Property
1375 55th Street
Emeryville, California

GA Project No. 167-01-01

Prepared for:

Mr. Ron Mooney
California Syrup and Extract
P O Box 8305
Emeryville, CA 94662

Prepared by:

Gribi Associates
1350 Hayes Street, Suite C-14
Benicia, CA 94510
(707)748-7743

September 30, 1999

GRIBI Associates

Geological and Environmental Consulting Services

September 30, 1999

Mr. Ron Mooney
California Syrup and Extract
P O Box 8305
Emeryville, CA 94662

Subject: Report of Soil Investigation
California Syrup and Extract Property
1375 55th Street, Emeryville, California

Dear Mr. Mooney:

Gribi Associates is pleased to submit this report documenting a recently-completed soil boring investigation conducted on the California Syrup and Extract property located at 1375 55th Street parcel in Emeryville, California. The soil boring investigation included the drilling and sampling of ten soil borings at the site using Geoprobe coring equipment. The goal of the investigation was to assess soil quality in areas of the site where soil excavation is anticipated.

Both field and laboratory results from the ten borings indicate no significant impacts from past site activities. Low levels of Total Petroleum Hydrocarbons as Motor Oil (TPH-MO) were encountered in the soil sample from boring IB-9, and low levels of Ammonia were encountered in the soil samples from borings IB-2, IB-3, IB-8, and IB-10. However, these low levels of TPH-MO and Ammonia would not be expected to warrant significant environmental or regulatory concern.

We appreciate the opportunity to present this report for your review. Please contact us if you have questions or require additional information.

Very truly yours,

James E. Gribi
Registered Geologist
California No. 5843

REGISTERED GEOLOGIST
JAMES E. GRIBI
No. 5843
STATE OF CALIFORNIA

Stanton Stubbs
Environmental Scientist

JEG:cc
Enclosure

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1.0 INTRODUCTION

This report documents a recently-completed soil investigation conducted at the California Syrup and Extract property located at 1375 55th Street parcel in Emeryville, California (see Figure 1 and Figure 2). The soil investigation included the drilling of ten investigative soil borings (IB-1 through IB-10) at the site using direct-push coring equipment. The goal of the investigation was to assess soil quality in areas of the site where soil excavation is anticipated.

1.1 Site Background

The California Syrup and Extract Company produced and bottled syrup and vinegar at the project site from approximately 1910 until the mid 1980s. In addition, ammonia was bottled at the site in the 1960s. The east portion of the facility was leased out in the 1970s, and the west portion has been used for storage since the mid 1980s.

Eight underground storage tanks (USTs) are located beneath the sidewalk adjacent to the California Syrup and Extract facility. These USTs were installed at various times throughout the life of the facility, and were used to store vehicle fuels such as gasoline and diesel, and for bulk storage of aqueous ammonia and denatured alcohol for use in California Syrup and Extract's business. All of the USTs were installed prior to current Federal and State UST permitting and closure regulations. Thus, as each UST outlived its usefulness, it was simply taken out of use.

In July 1993, Century West Engineering conducted a soil boring investigation at the project site as a requirement for closure-in-place of the eight USTs located beneath the 55th Street sidewalk. This investigation, which included the drilling and sampling of 13 soil borings adjacent to the USTs, revealed that three of the eight USTs (Tank No. 2 waste oil, Tank No. 3 diesel, and Tank No. 4 ammonia) showed evidence of product leakage. However, soil analytical results from the 13 soil borings indicated that releases from these three USTs have not had a significant impact on soils in the expected downgradient (westerly) direction from the USTs.

In accordance with the approved UST closure plan, the eight USTs were closed in-place by Allpro Environmental Corporation during the week of August 15, 1994. Closure-in-place consisted of filling each of the USTs with a cement/sand slurry.

In September 1994, two groundwater monitoring wells were installed in the 55th Street sidewalk adjacent to former fuel and waste oil USTs. Soil and groundwater analytical results from these wells showed low levels of gasoline-range hydrocarbons, diesel-range hydrocarbons, and ammonia.

It is our understanding that the project site building is slated for retrofitting, and that while the project site building facade will remain, the rest of the building will be demolished and a new building constructed. The new building construction will involve some excavation for footings and to adjust ground surface elevations to accommodate the new building design. The goal of this investigation has been to assess soil conditions in potential excavation areas to insure that environmental issues will not arise during building construction. In order to achieve this goal, Gribi Associates drilled and sampled ten soil borings to about six feet in depth using direct-push coring equipment. Locations for the ten proposed soil borings were sited in the approximate locations provided by your architect, Pyatok Associates.

1.2 Scope of Work

Gribi Associates was contracted by for California Syrup and Extract to conduct the following scope of work:

- **Task 1** **Conduct prefield activities.**
- **Task 2** **Conduct drilling and sampling activities.**
- **Task 3** **Conduct laboratory analyses.**
- **Task 4** **Prepare report of findings.**

These tasks were conducted in accordance with applicable environmental sampling guidelines and statutes.

1.3 Limitations

The services provided under this contract as described in this report include professional opinions and judgments based on data collected. These services have been provided according to generally accepted environmental protocol. The opinions and conclusions contained in this report are typically based on information obtained from:

1. Observations and measurements made by our field staff.
2. Contacts and discussions with regulatory agencies and others.
3. Review of available hydrogeologic data.

2.0 Description of Field Activities

Drilling and sampling activities were conducted on Tuesday September 7, 1999. All activities were conducted in accordance with applicable State and Federal guidelines and statutes.

2.1 Prefield Activities

Prior to implementing field activities a soil boring installation permit was obtained from Alameda County Department of Public Works. A copy of this permit is contained in Appendix A. In addition, proposed boring locations were marked with white paint, and a private underground utility locator cleared proposed boring locations prior to drilling. Prior to initiating drilling activities, a Site Safety Plan was prepared, and a tailgate safety meeting was conducted with all site workers.

2.2 Location of Borings

The locations of the ten investigative soil borings, IB-1 through IB-10, are shown on Figure 2. The locations of the soil borings were located in the approximate location of potential excavation areas provided by Pyatok Associates.

2.3 Drilling and Sampling of Investigative Soil Borings

The ten investigative soil borings were drilled to total depths of about six feet below surface grade by Gregg Drilling using Geoprobe™ hydraulically-driven soil coring equipment. Soil samples from the ten borings were collected using direct-push coring equipment. After the sample was brought to the surface and exposed, the core was examined, logged, and field screened for hydrocarbons by a qualified Gribi Associates scientist using sight and smell. Boring logs for the ten investigative borings are included in Appendix B. Following completion, the investigative borings were grouted to match existing grade using a cement\sand slurry.

One soil sample was collected from each of the ten borings at about six feet in depth as follows: (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 aluminum foil, 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.

2.4 Laboratory Analysis of Soil and Water Samples

One soil sample from each boring, for a total of ten soil samples, was analyzed for the following parameters:

USEPA 8015M Total Petroleum Hydrocarbons as Gasoline (TPH-G
USEPA 8020 Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)
USEPA 8020 Methyl-t-Butyl Ether (MTBE)
USEPA 8015M Total Petroleum Hydrocarbons as Diesel/Motor Oil (TPH-D/MO)
USEPA 350.1 Total Ammonia

All analyses was conducted by Acculab, Inc. a California-certified analytical laboratory, with two-week turnaround on results.

3.0 RESULTS OF INVESTIGATION

3.1 General Subsurface Conditions

Native soils encountered in borings IB-1 through IB-10 were generally similar, consisting primarily of black to brown clays and clayey silts down to about three feet, followed by brown to olive green clay and silts down to total depth. Gravelly silty sands were encountered in IB-4, IB-6, IB-7, IB-8, and IB-10 below about five feet in depth. Olive green clay was noticed in soils from about two feet to six and one-half feet in depth in IB-1, IB-2, and IB-3. No hydrocarbon odors were noted in any of the soil samples. Groundwater was not encountered in any of the ten borings.

3.2 Results of Laboratory Analyses

Soil and water analytical results are summarized in Table 1. The laboratory data report and chain-of-custody record for soil and groundwater analyses is contained in Appendix C.

Table 1
SUMMARY OF SOIL ANALYTICAL RESULTS
4501 Shattuck Avenue Site

Sample ID	Sample Depth	Concentration (ppm)								
		TPH-D	TPH-MO	TPH-G	B	T	E	X	MTBE	Ammonia
IB-1.1	6.0 ft	<1.0	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.75
IB-2.1	5.5 ft	<1.0	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	**2.3**
IB-3.1	5.5 ft	<1.0	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	**2.0**
IB-4.1	6.0 ft	<1.0	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.75
IB-5.1	5.5 ft	<1.0	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.75
IB-6.1	7.5 ft	<1.0	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.75
IB-7.1	5.5 ft	<1.0	<10	<1 0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.75
IB-8.1	7.5 ft	<1.0	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	**10**
IB-9.1	5.5 ft	<3.0[1]	**58**	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.75
IB-10.1	7.5 ft	<1.0	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	**2.0**

TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethyl benzene
X = Xylene MTBE = Methyl-t-Butyl Ether
<1.0 = Not detected above the expressed value.
[1] = Increased reporting limit due to oil range interferance.

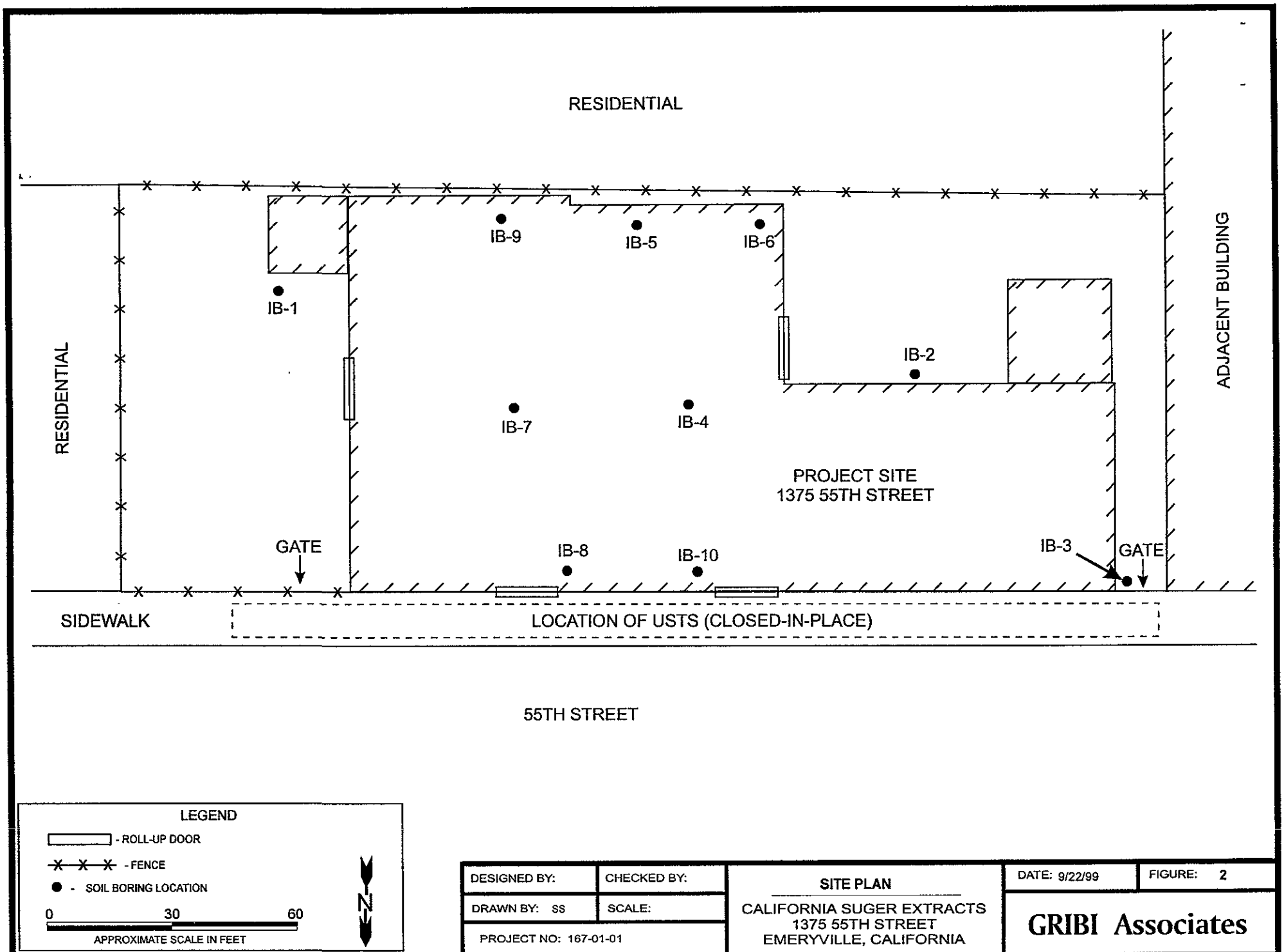
4.0 CONCLUSIONS

Both field and laboratory results from the ten borings indicate no significant impacts from past site activities. Low levels of Total Petroleum Hydrocarbons as Motor Oil (TPH-MO) were encountered in the soil sample from boring IB-9, and low levels of Ammonia were encountered in the soil samples from borings IB-2, IB-3, IB-8, and IB-10. However, these low levels of TPH-MO and Ammonia would not be expected to warrant significant environmental or regulatory concern.

FIGURES

TOPOGRAPHY FROM USGS OAKLAND, WEST
7.5-MINUTE QUADRANGLE MAP, (TOPO! 1997)

DESIGNED BY:	CHECKED BY: JG	**SITE VICINITY MAP**	DATE: 09/30/99	FIGURE: 1
DRAWN BY: SS	SCALE: 1:24,000	CALIFORNIA SUGER EXTRACTS 1375 55TH STREET EMERYVILLE, CALIFORNIA	**GRIBI Associates**	
PROJECT NO: 167-01-01				



DESIGNED BY:	CHECKED BY:
DRAWN BY: SS	SCALE:
PROJECT NO: 167-01-01	

SITE PLAN

CALIFORNIA SUGER EXTRACTS
1375 55TH STREET
EMERYVILLE, CALIFORNIA

DATE: 9/22/99

FIGURE: 2

GRIBI Associates

APPENDIX A

DRILLING PERMIT

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-6548 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Calif. Syrup & Extract
1335 55th Street
Emeryville CA

California Coordinates Source _____ ft. Accuracy ± ____ ft.
CCN _____ ft. CCE _____ ft.
APN _____

CLIENT
Name California Syrup & Extract
Address P O Box 8305 Phone 510/777-0781
City Emeryville CA Zip 94662

APPLICANT
Name Jim Gribi
Gribi Associates Fax 707/746-7763
Address 1964 Hayes Tree C-14 Phone 707/746-7743
City Benicia CA Zip 94510

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☒
Monitoring	☐	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other _____	☐

DRILLING METHOD

Mud Rotary	☐	Air Rotary	☐	Auger	☐
Cable	☐	Other	X Geoprobe		

DRILLER'S LICENSE NO. C-57 485165 (Gregg)

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

GEOTECHNICAL PROJECTS
Number of Borings 10 Maximum
Hole Diameter 2 1/4 in. Depth 5 ft.

ESTIMATED STARTING DATE 9/7/1999
ESTIMATED COMPLETION DATE 9/7/1999

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

APPLICANT'S SIGNATURE James C Gribi DATE 8/26/99

FOR OFFICE USE
PERMIT NUMBER 99WR520
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA offices 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 Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
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 50 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 with compacted cuttings or if heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC
Fill hole above anode zone with concrete placed by tremie

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS SEE ATTACHED INFORMATION.

APPROVED _____ DATE 8-27-99

** TOTAL PAGE.02 **

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE
For Monitoring Well at Clean or Contaminated Site

Destruction Requirements:

1. Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.
2. Sound the well as deeply as practicable and record for your report.
3. Using a tremie pipe, fill the hole to 2 feet below the lower of finished grade or original ground with neat cement.
4. After the seal has set, backfill the remaining hole with compacted material.

APPENDIX B

SOIL BORING LOGS

LOG OF WELL BORING

GRIBI Associates

BORING NUMBER : IB-1

BORING LOCATION: EAST YARD

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME: CSE-55TH STREET

PROJECT NUMBER: 167-01-01

START DATE: 9/7/99

COMPLETION DATE: 9/7/99

SHEET _1_ OF _1_

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2 INCHES

COMPLETION METHOD: GROUTED

BORING TOTAL DEPTH: 6.5 FEET

GROUNDWATER TOTAL DEPTH: NONE

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING /DEPTH	USCS	LOG OF MATERIAL	PIEZOMETER/ WELL INSTALLATION
5	IB-1.1	6.0 FT			CL	0 - 0.5 Ft. Concrete and base rock. 0.5 - 2.0 Ft. Black CLAY, friable, soft, moist, no hydrocarbon odor or staining. 2.0 - 6.5 Ft. Brown to olive green CLAY, firm, moist, no hydrocarbon odor or staining. END OF BORING	
10							
15							
20							
25							

LOG OF WELL BORING

GRIBI Associates

BORING NUMBER : **IB-2**

BORING LOCATION: SOUTH YARD

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME: CSE-55TH STREET

PROJECT NUMBER: 167-01-01

START DATE: 9/7/99

COMPLETION DATE: 9/7/99

SHEET _1_ OF _1_

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2 INCHES

COMPLETION METHOD: GROUTED

BORING TOTAL DEPTH: 6.0 FEET

GROUNDWATER TOTAL DEPTH: NONE

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING /DEPTH	USCS	LOG OF MATERIAL	PIEZOMETER/ WELL INSTALLATION
						0 - 0.5 Ft. Concrete and base rock.	
					ML	0.5 - 4.0 Ft. Black clayey SILT, loose, soft, dry to moist, no hydrocarbon odor or staining.	
5					CL	4.0 - 6.0 Ft. Olive green silty CLAY, slightly gravelly, firm, moist, no hydrocarbon odor or staining.	
	IB-2.1	5.5 FT				END OF BORING	
10							
15							
20							
25							

LOG OF WELL BORING

GRIBI Associates

BORING NUMBER : **IB-3**

BORING LOCATION: WEST GATE

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME: CSE-55TH STREET

PROJECT NUMBER: 167-01-01

START DATE: 9/7/99

COMPLETION DATE: 9/7/99

SHEET _1_ OF _1_

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2 INCHES

COMPLETION METHOD: GROUTED

BORING TOTAL DEPTH: 6.0 FEET

GROUNDWATER TOTAL DEPTH: NONE

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING /DEPTH	USCS	LOG OF MATERIAL	PIEZOMETER\ WELL INSTALLATION
5	IB-3.1	5.5 FT			ML	0 - 0.5 Ft. Concrete and base rock.	
						0.5 - 3.0 Ft. Black to brown clayey SILT, loose, soft, moist, no hydrocarbon odor or staining.	
					CL	3.0 - 6.0 Ft. Olive green silty CLAY, firm, moist, no hydrocarbon odor or staining.	
10						END OF BORING	
15							
20							
25							

LOG OF WELL BORING

GRIBI Associates

BORING NUMBER : IB-4

BORING LOCATION:
WAREHOUSE MIDDLE WEST

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME: CSE-55TH STREET

PROJECT NUMBER: 167-01-01

START DATE: 9/7/99

COMPLETION DATE: 9/7/99

SHEET _1_ OF _1_

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2 INCHES

COMPLETION METHOD: GROUTED

BORING TOTAL DEPTH: 6.5 FEET

GROUNDWATER TOTAL DEPTH: NONE

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING /DEPTH	USCS	LOG OF MATERIAL	PIEZOMETER/ WELL INSTALLATION
						0 - 0.5 Ft. Concrete and base rock.	
					ML	0.5 - 4.0 Ft. Black clayey SILT, loose, dry to moist, no hydrocarbon odor or staining.	
					CL	4.0 - 5.0 Ft. Brown CLAY, firm, moist, no hydrocarbon odor or staining.	
5					SM	5.0 - 6.5 Ft. Brown gravelly silty SAND, loose to firm, dry to moist, no hydrocarbon odor or staining.	
	IB-4.1	6.0 FT				END OF BORING	
10							
15							
20							
25							

LOG OF WELL BORING

SHEET _1_ OF _1_

BORING NUMBER : **IB-5**

BORING LOCATION:
WAREHOUSE MIDDLE OF SOUTH WALL

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME: CSE-55TH STREET

PROJECT NUMBER: 167-01-01

GRIBI Associates

START DATE: 9/7/99

COMPLETION DATE: 9/7/99

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2 INCHES

COMPLETION METHOD: GROUTED

BORING TOTAL DEPTH: 6.0 FEET

GROUNDWATER TOTAL DEPTH: NONE

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING /DEPTH	USCS	LOG OF MATERIAL	PIEZOMETER\ WELL INSTALLATION
						0 - 0.5 Ft. Concrete and base rock.	
					ML	0.5 - 4.0 Ft. Black to brown SILT, loose, friable, dry to moist, no hydrocarbon odor or staining.	
5					CL	4.0 - 6.0 Ft. Brown silty CLAY, dense, moist, no hydrocarbon odor or staining.	
	IB-5.1	5.5 FT				END OF BORING	
10							
15							
20							
25							

LOG OF WELL BORING

GRIBI Associates

BORING NUMBER : IB-6

BORING LOCATION:
WAREHOUSE SOUTHWEST CORNER

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME: CSE-55TH STREET

PROJECT NUMBER: 167-01-01

START DATE: 9/7/99

COMPLETION DATE: 9/7/99

SHEET _1_ OF _1_

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2 INCHES

COMPLETION METHOD: GROUTED

BORING TOTAL DEPTH: 8.0 FEET

GROUNDWATER TOTAL DEPTH: NONE

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING /DEPTH	USCS	LOG OF MATERIAL	PIEZOMETER/ WELL INSTALLATION
						0 - 0.5 Ft. Concrete and base rock.	
						0.5 - 4.0 Ft. Unsuccessful sample recovery.	
5					CL	4.0 - 6.0 Ft. Brown CLAY, firm, moist, no hydrocarbon odor or staining.	
	IB-6.1	7.5 FT			SM	6.0 - 8.0 Ft. Brown gravelly silty SAND, loose, friable, no hydrocarbon odor or staining.	
10						END OF BORING	
15							
20							
25							

LOG OF WELL BORING

GRIBI Associates

BORING NUMBER : IB-7

BORING LOCATION:
WAREHOUSE MIDDLE EAST

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME: CSE-55TH STREET

PROJECT NUMBER: 167-01-01

START DATE: 9/7/99

COMPLETION DATE: 9/7/99

SHEET _1_ OF _1_

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2 INCHES

COMPLETION METHOD: GROUTED

BORING TOTAL DEPTH: 6.0 FEET

GROUNDWATER TOTAL DEPTH: NONE

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING /DEPTH	USCS	LOG OF MATERIAL	PIEZOMETER/ WELL INSTALLATION
						0 - 0.5 Ft. Concrete and base rock.	
					ML	0.5 - 4.0 Ft. Black clayey SILT, soft, friable, moist, no hydrocarbon odor or staining.	
5	IB-7.1	5.5 FT			SM	4.0 - 6.0 Ft. Brown gravelly silty SAND, friable, moist, no hydrocarbon odor or staining.	
						END OF BORING	
10							
15							
20							
25							

LOG OF WELL BORING

SHEET _1_ OF _1_

BORING NUMBER : IB-8

BORING LOCATION:
WAREHOUSE-NORTHEAST OF NORTHWALL

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME: CSE-55TH STREET

PROJECT NUMBER: 167-01-01

GRIBI Associates

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2 INCHES

COMPLETION METHOD: GROUTED

START DATE: 9/7/99

BORING TOTAL DEPTH: 8.0 FEET

COMPLETION DATE: 9/7/99

GROUNDWATER TOTAL DEPTH: NONE

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING /DEPTH	USCS	LOG OF MATERIAL	PIEZOMETER/ WELL INSTALLATION
						0 - 0.5 Ft. Concrete and base rock.	
						0.5 - 4.0 Ft. Unsuccessful sample recovery.	
5					SM	4.0 - 7.0 Ft. Brown gravelly silty SAND, friable, firm, dry to moist, no hydrocarbon odor or staining.	
	IB-8.1	7.5 FT			ML	7.0 - 8.0 Ft. Brown clayey SILT, firm, dense, moist, no hydrocarbon odor or staining.	
						END OF BORING	
10							
15							
20							
25							

LOG OF WELL BORING

GRIBI Associates

BORING NUMBER: **IB-9**

BORING LOCATION:
WAREHOUSE-EAST OFSOUTH WALL

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME: CSE-55TH STREET

PROJECT NUMBER: 167-01-01

START DATE: 9/7/99

COMPLETION DATE: 9/7/99

SHEET _1_ OF _1_

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2 INCHES

COMPLETION METHOD: GROUTED

BORING TOTAL DEPTH: 6.0 FEET

GROUNDWATER TOTAL DEPTH: NONE

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING /DEPTH	USCS	LOG OF MATERIAL	PIEZOMETER\ WELL INSTALLATION
						0 - 0.5 Ft. Concrete and base rock.	
					ML	0.5 - 4.0 Ft. Black to dark brown SILT, loose, friable, dry, no hydrocarbon odor or staining.	
5					ML	4.0 - 6.0 Ft. Brown clayey SILT, dense, moist, no hydrocarbon odor or staining.	
	IB-9.1	5.5 FT				END OF BORING	
10							
15							
20							
25							

LOG OF WELL BORING

GRIBI Associates

BORING NUMBER : **IB-10**

BORING LOCATION:
WAREHOUSE-WEST OF NORTHWALL

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME: CSE-55TH STREET

PROJECT NUMBER: 167-01-01

START DATE: 9/7/99

COMPLETION DATE: 9/7/99

SHEET _1_ OF _1_

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2 INCHES

COMPLETION METHOD: GROUTED

BORING TOTAL DEPTH: 8.0 FEET

GROUNDWATER TOTAL DEPTH: NONE

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING /DEPTH	USCS	LOG OF MATERIAL	PIEZOMETER\ WELL INSTALLATION
						0 - 0 5 Ft. Concrete and base rock.	
						0.5 - 4.0 Ft. Unsuccessful sample recovery.	
5					SM	4.0 - 7.0 Ft. Brown gravelly silty SAND, friable, firm, dry to moist, no hydrocarbon odor or staining.	
	IB-10.1	7.5 FT			ML	7.0 - 8.0 Ft. Brown clayey SILT, firm, dense, moist, no hydrocarbon odor or staining.	
10						END OF BORING	
15							
20							
25							

APPENDIX C

LABORATORY DATA REPORT AND CHAIN-OF-CUSTODY RECORD

Acculabs Inc.
Davis
1046 Olive Drive, Davis CA 95616 ▪ 530-757-0920 ▪ Fax 753-6091

Sample Log 20528
September 18, 1999

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

Subject : 10 Soil samples
Project Name : CSE-55TH
Project Number : 167-01-01

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 Arizona (AZ0583) and the State of California (# 2330). If you have any questions regarding procedures or results, please call me at 530-757-0920.

Sincerely,

Tom Kwoka

Tom Kwoka

Acculabs Inc.
Davis

September 14, 1999
Sample Log 20528

MTBE (Methyl-t-butyl ether) By EPA Method 8020/602

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Received : 09/08/99
Matrix : Soil

SAMPLE	Date Analyzed	(MRL) mg/kg	Measured Value mg/kg
IB-1.1 (6.0')	09/14/99	(.050)	<.050
IB-2.1 (5.5')	09/15/99	(.050)	<.050
IB-3.1 (5.5')	09/15/99	(.050)	<.050
IB-4.1 (6.0')	09/15/99	(.050)	<.050
IB-5.1 (5.5')	09/15/99	(.050)	<.050
IB-6.1 (7.5')	09/16/99	(.050)	<.050
IB-7.1 (5.5')	09/16/99	(.050)	<.050
IB-8.1 (7.5')	09/16/99	(.050)	<.050
IB-9.1 (5.5')	09/16/99	(.050)	<.050
IB-10.1 (7.5')	09/16/99	(.050)	<.050

Approved By:

Tom Kwoka
Lab Director

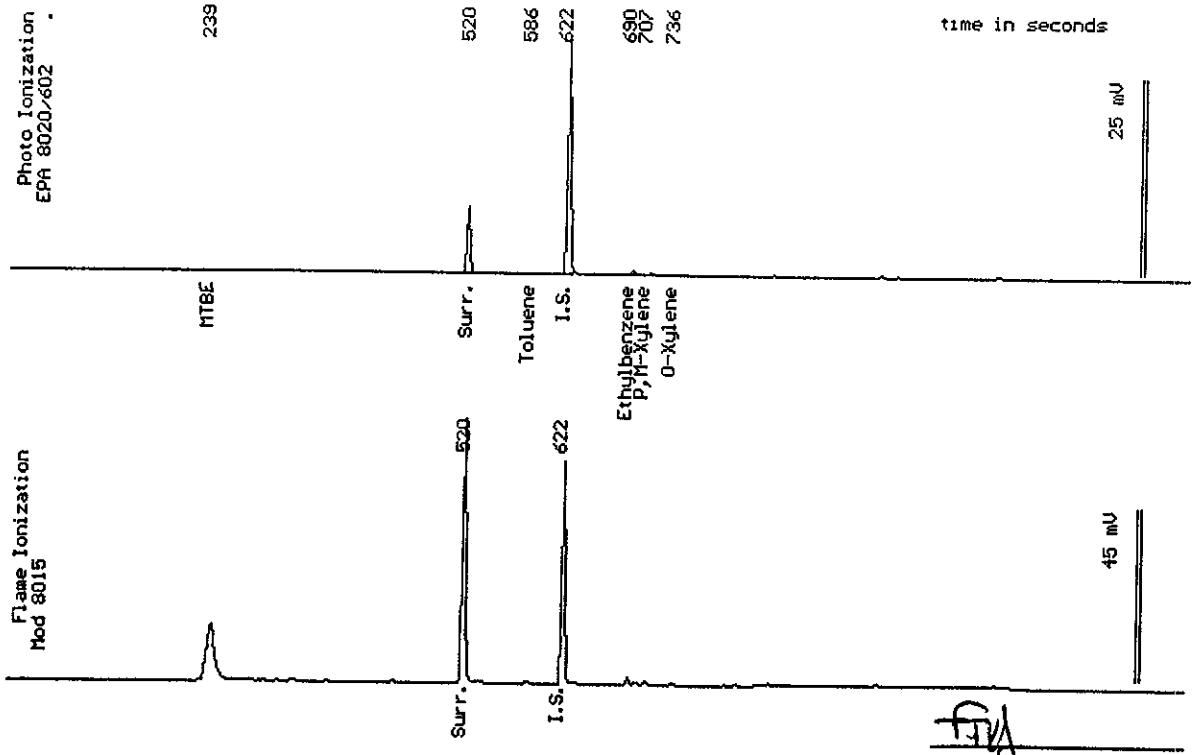
Acculabs Inc.
Davis

Sample Log 20528
20528-01

Sample: **IB-1.1 (6.0')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Dilution : 1:1 Run Log : 2183X
Matrix : Soil

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		102 %



Date Analyzed: 09-14-99
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Podolsky
Senior Chemist

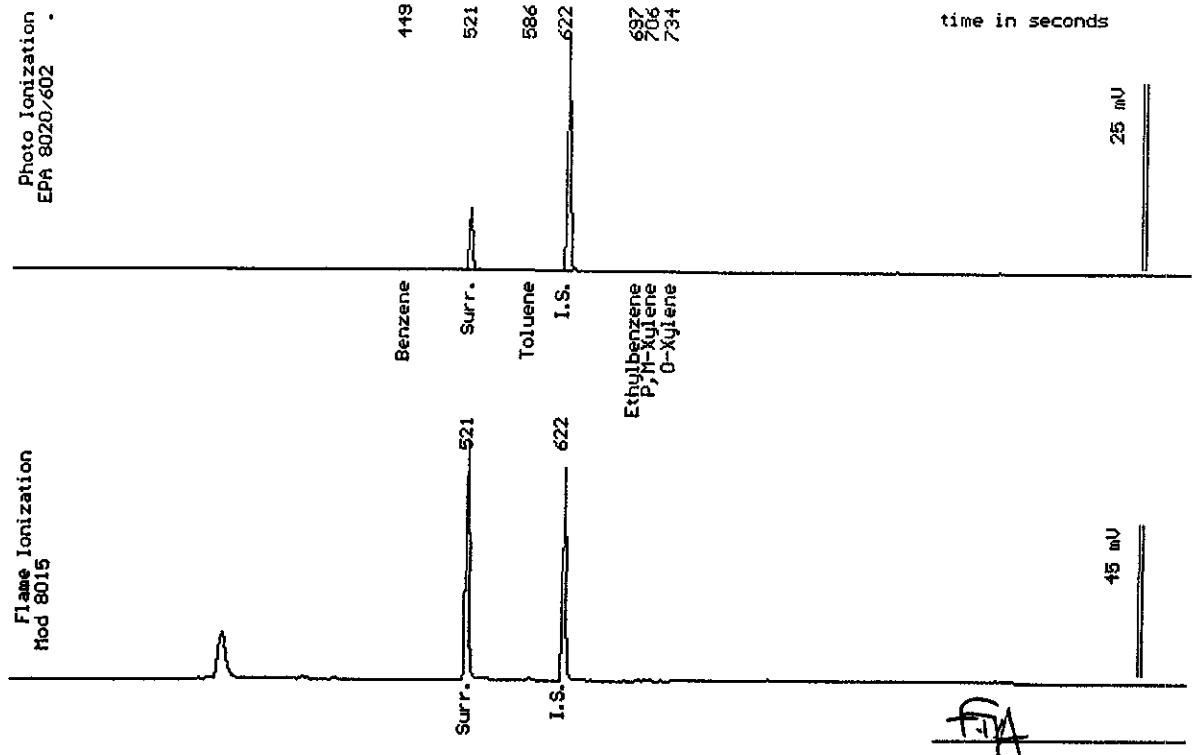
Acculabs Inc.
Davis

Sample Log 20528
20528-02

Sample: IB-2.1 (5.5')

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Dilution : 1:1 Run Log : 2183Y
Matrix : Soil

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		102 %



Date Analyzed: 09-15-99
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Podolsky
Senior Chemist

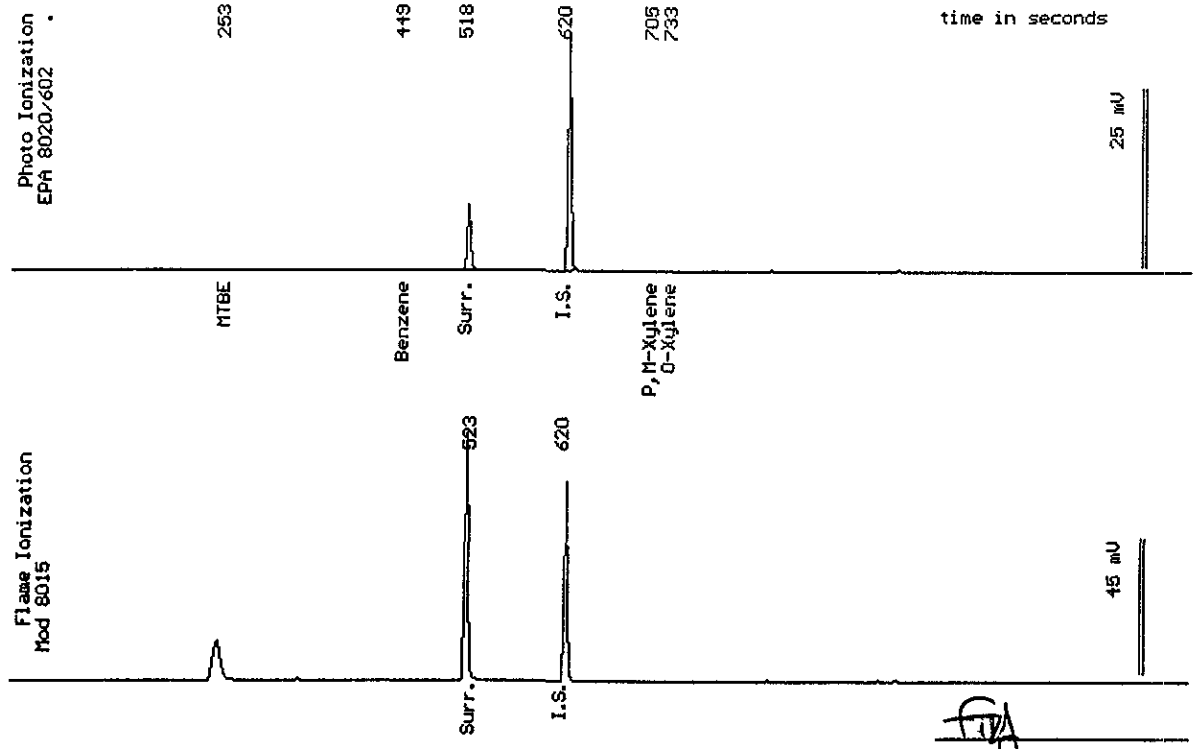
Acculabs Inc.
Davis

Sample Log 20528
20528-03

Sample: IB-3.1 (5.5')

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Dilution : 1:1 Run Log : 2183Y
Matrix : Soil

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		102 %



Date Analyzed: 09-15-99
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Podolsky
Senior Chemist

Acculabs Inc.

Davis

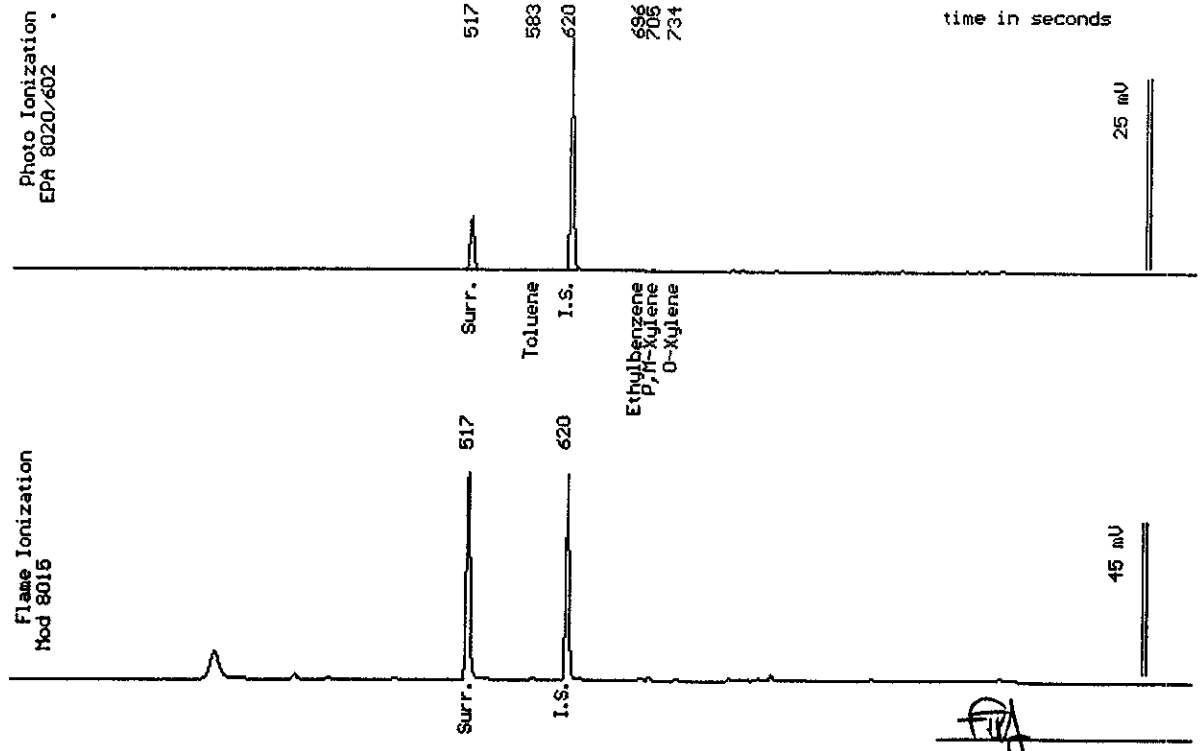
Sample Log 20528

20528-04

Sample: **IB-4.1 (6.0')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Dilution : 1:1 Run Log : 2183Z
Matrix : Soil

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		100 %



Date Analyzed: 09-15-99
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Podolsky
Senior Chemist

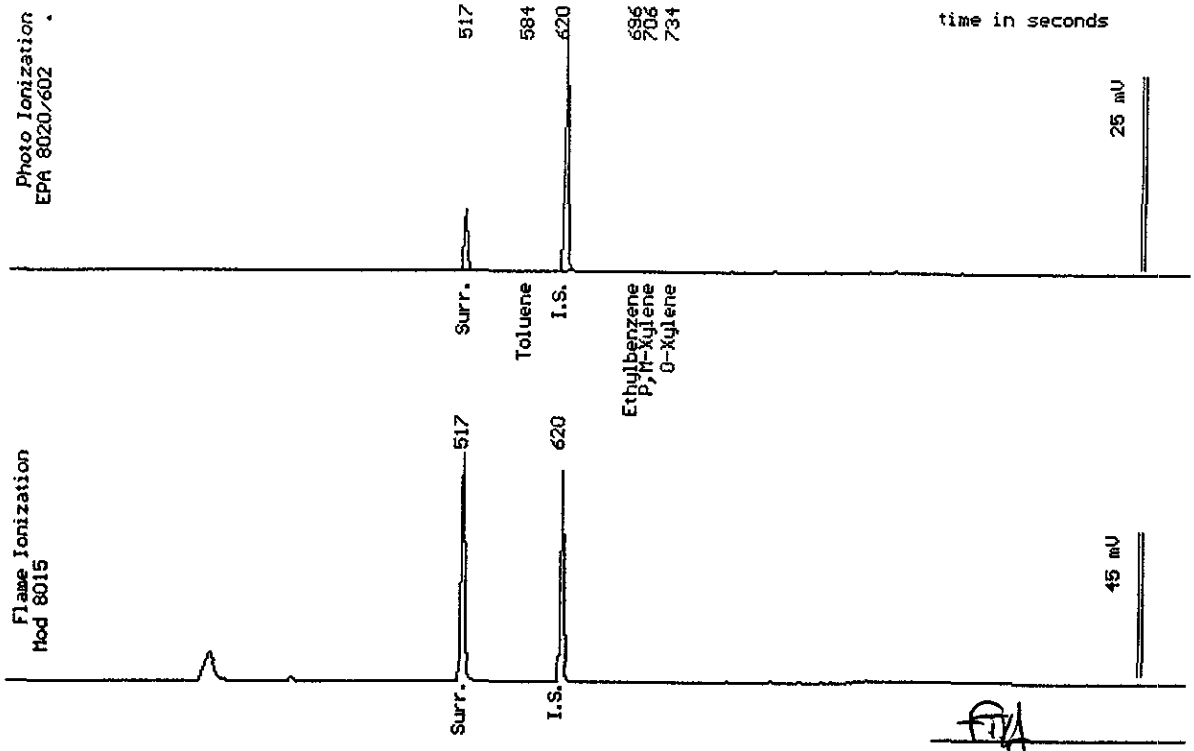
Acculabs Inc.
Davis

Sample Log 20528
20528-05

Sample: IB-5.1 (5.5')

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Dilution : 1:1 Run Log : 2183Z
Matrix : Soil

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		102 %



Date Analyzed: 09-15-99
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Podolsky
Senior Chemist

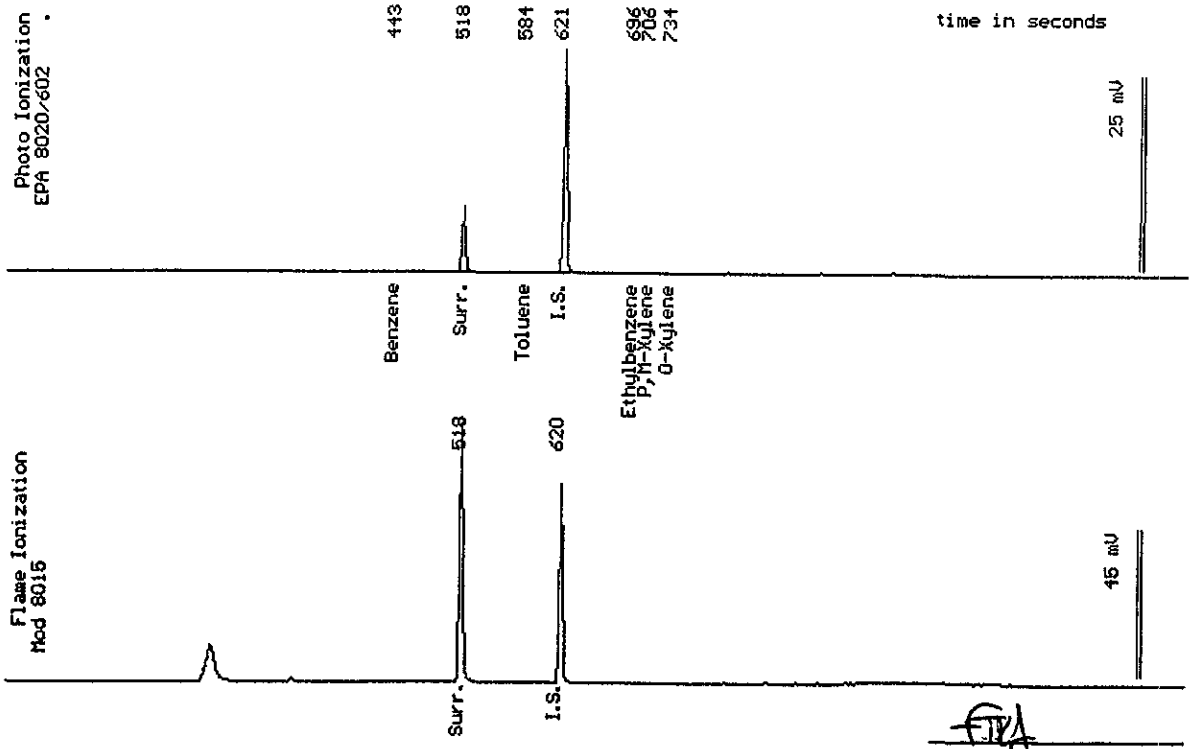
Acculabs Inc.
Davis

Sample Log 20528
20528-06

Sample: IB-6.1 (7.5')

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Dilution : 1:1 Run Log : 2183Z
Matrix : Soil

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		104 %



Date Analyzed: 09-16-99
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Podolsky
Senior Chemist

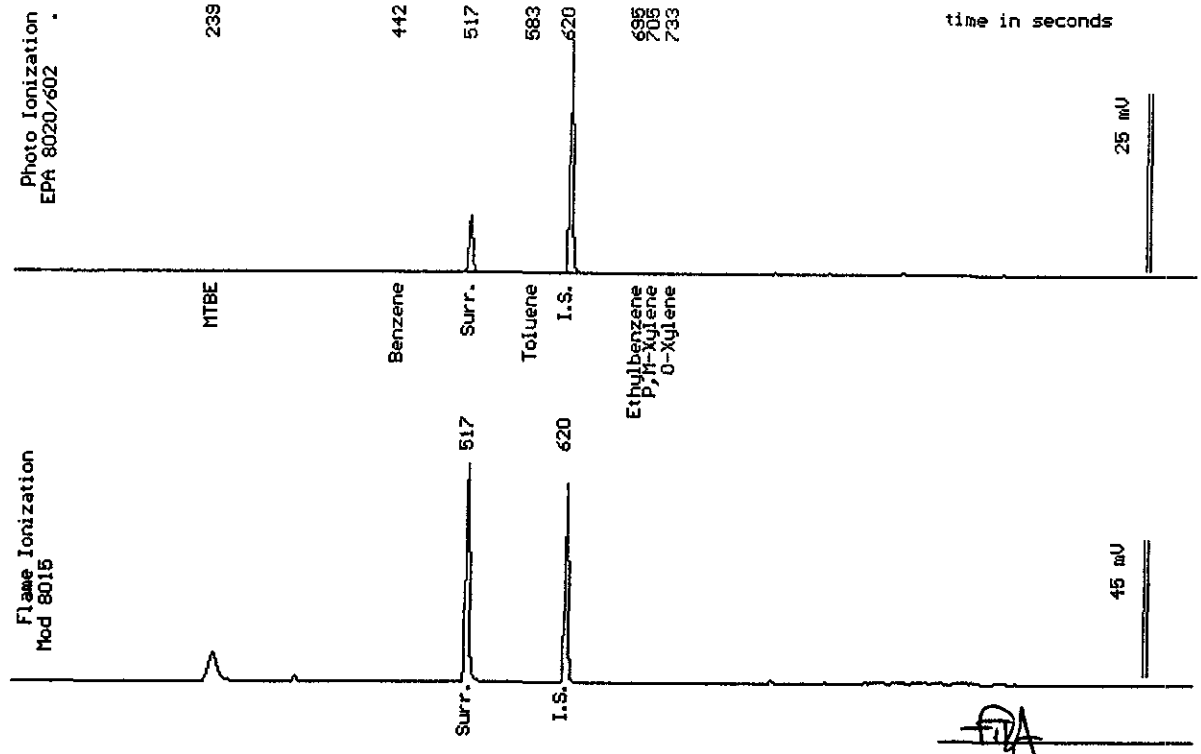
Acculabs Inc.
Davis

Sample Log 20528
20528-07

Sample: IB-7.1 (5.5')

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Dilution : 1:1 Run Log : 2183Z
Matrix : Soil

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		101 %



Date Analyzed: 09-16-99
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Podolsky
Senior Chemist

Acculabs Inc.

Davis

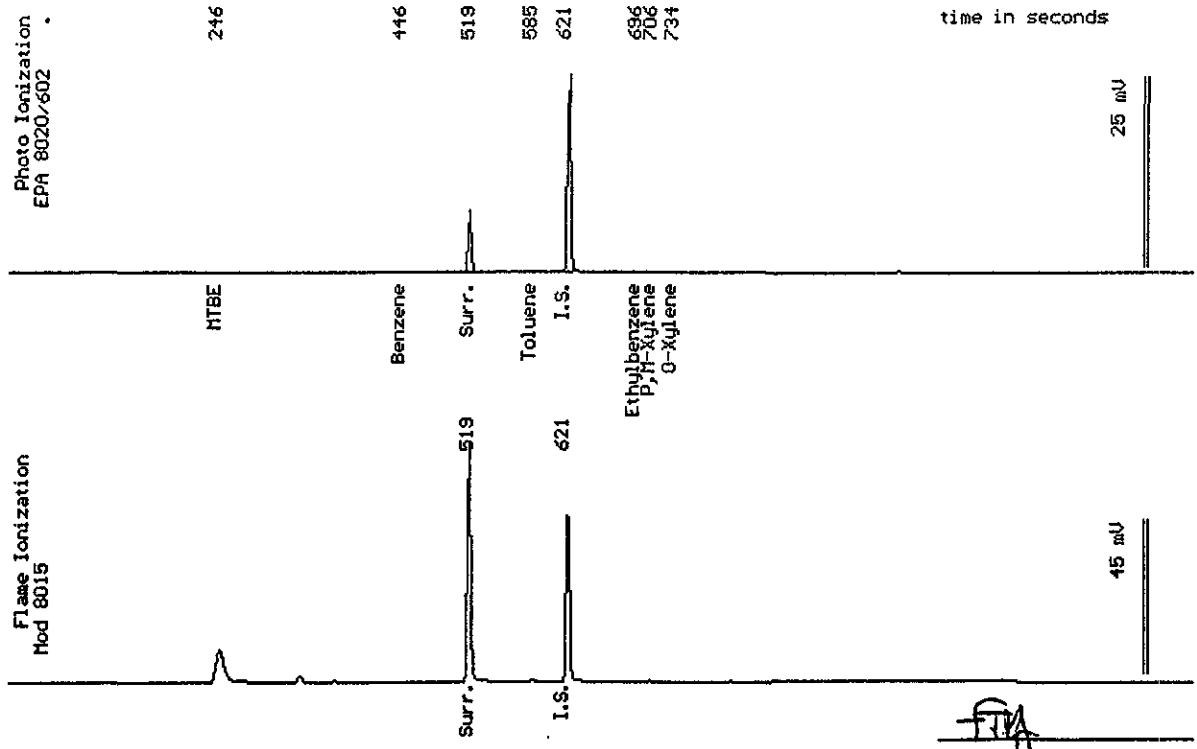
Sample Log 20528

20528-08

Sample: IB-8.1 (7.5')

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Dilution : 1:1 Run Log : 2183Z
Matrix : Soil

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: 09-16-99
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Podolsky
Senior Chemist

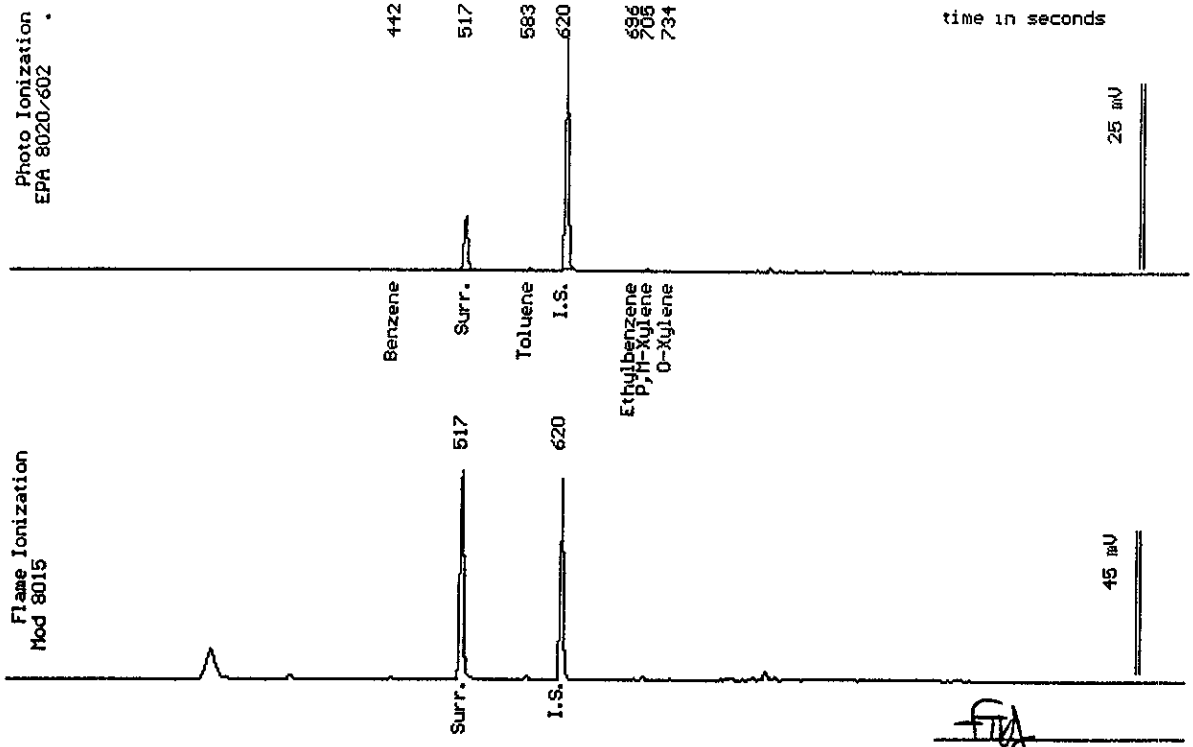
Acculabs Inc.
Davis

Sample Log 20528
20528-09

Sample: **IB-9.1 (5.5')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Dilution : 1:1 Run Log : 2183Z
Matrix : Soil

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: 09-16-99
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Podolsky
Senior Chemist

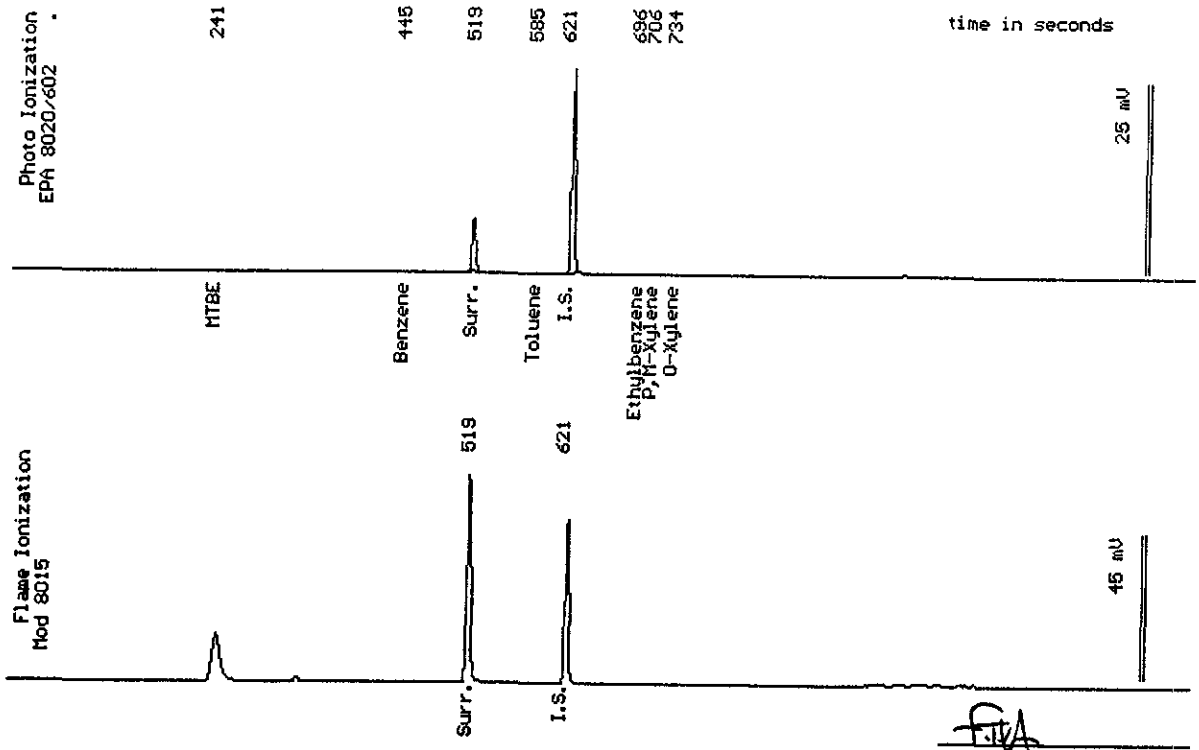
Acculabs Inc.
Davis

Sample Log 20528
20528-10

Sample: **IB-10.1 (7.5')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Dilution : 1:1 Run Log : 2183Z
Matrix : Soil

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		101 %



Date Analyzed: 09-16-99
Column : 0.53mm X 60m Restek Rtx-1301

Stewart Podolsky
Senior Chemist

Acculabs Inc.

September 14, 1999
Sample Log 20528

QC Report for EPA 8020 & Modified EPA 8015
Run Log : 2183X
From : CSE-55TH (Proj. # 167-01-01)
Sample(s) Received : 09/08/99

Parameter	Matrix Spike % Recovery	Matrix Spike Duplicate % Recovery	RPD *
Benzene	114	100	13
Ethylbenzene	93	101	8
TPH as Gasoline	94	105	11

* RPD = Relative Percent Difference

Parameter	Laboratory Control Sample % Recovery
Benzene	98
Ethylbenzene	101
Gasoline	103

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.
Davis

Sample Log 20528
20528-01

Sample: **IB-1.1 (6.0')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Extracted: 09/09/99
Dilution : 1:1
Matrix : Soil

QC Batch : DS990902
Run Log : 7450E

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0
TPH as Motor Oil	(10)	<10

Date: 09-10-99 Time: 07:16:14
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

Acculabs Inc.

Davis

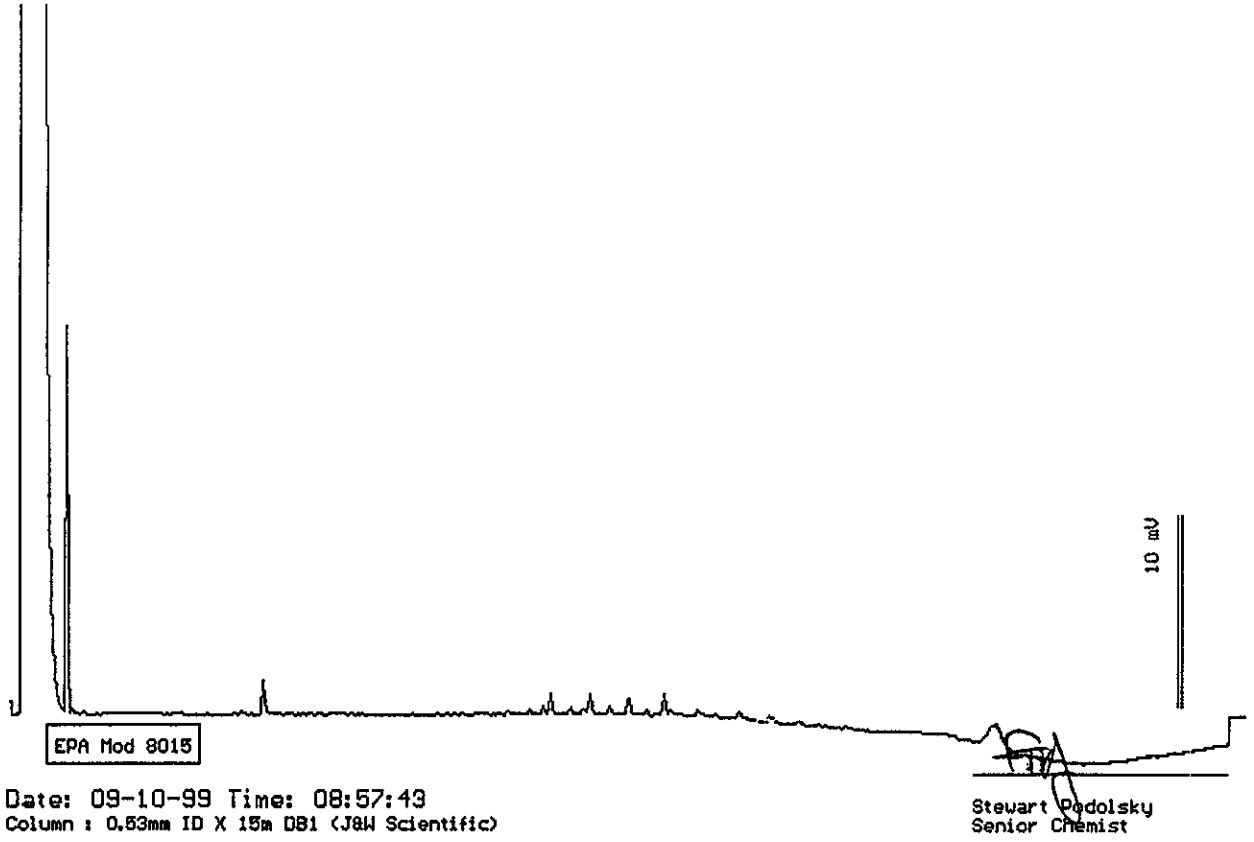
Sample Log 20528

20528-02

Sample: **IB-2.1 (5.5')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Extracted: 09/09/99 QC Batch : DS990902
Dilution : 1:1 Run Log : 7450E
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0
TPH as Motor Oil	(10)	<10



Date: 09-10-99 Time: 08:57:43
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

Acculabs Inc.
Davis

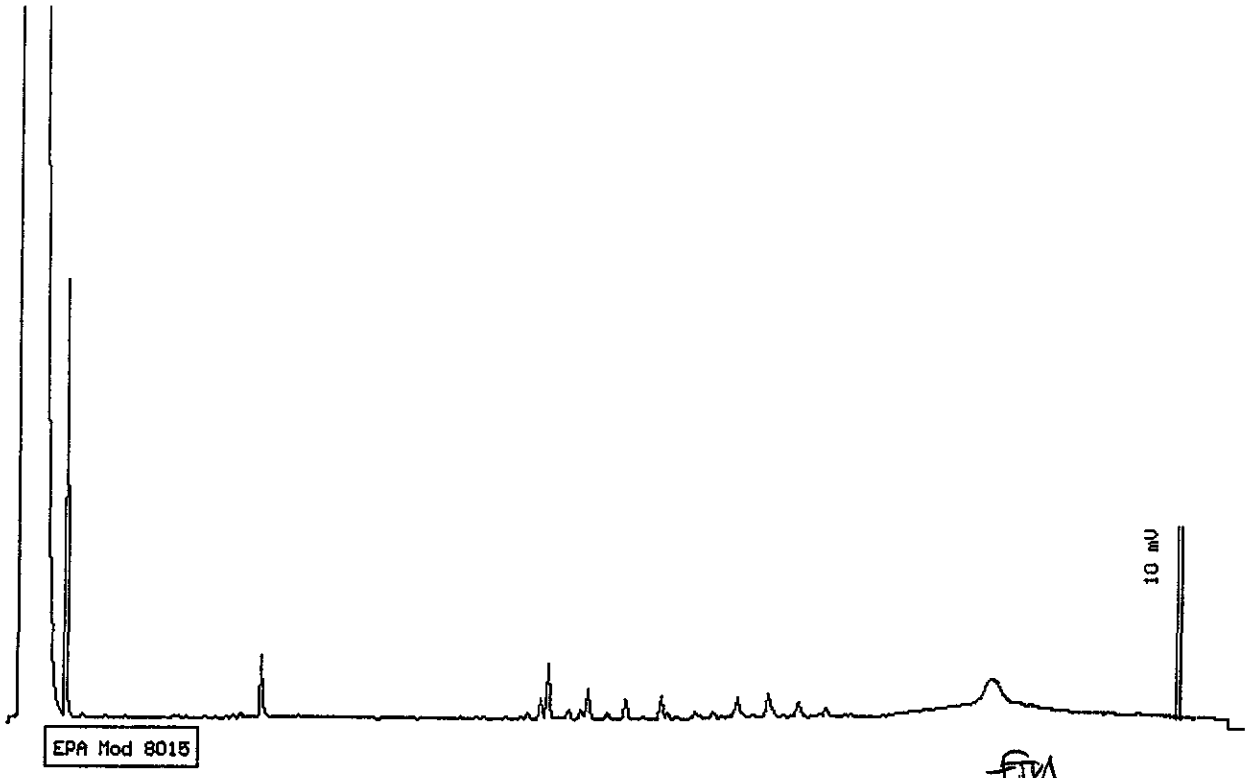
Sample Log 20528
20528-03

Sample: **IB-3.1 (5.5')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Extracted: 09/09/99
Dilution : 1:1
Matrix : Soil

QC Batch : DS990902
Run Log : 7450E

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0
TPH as Motor Oil	(10)	<10



Date: 09-10-99 Time: 10:40:08
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

Acculabs Inc.

Davis

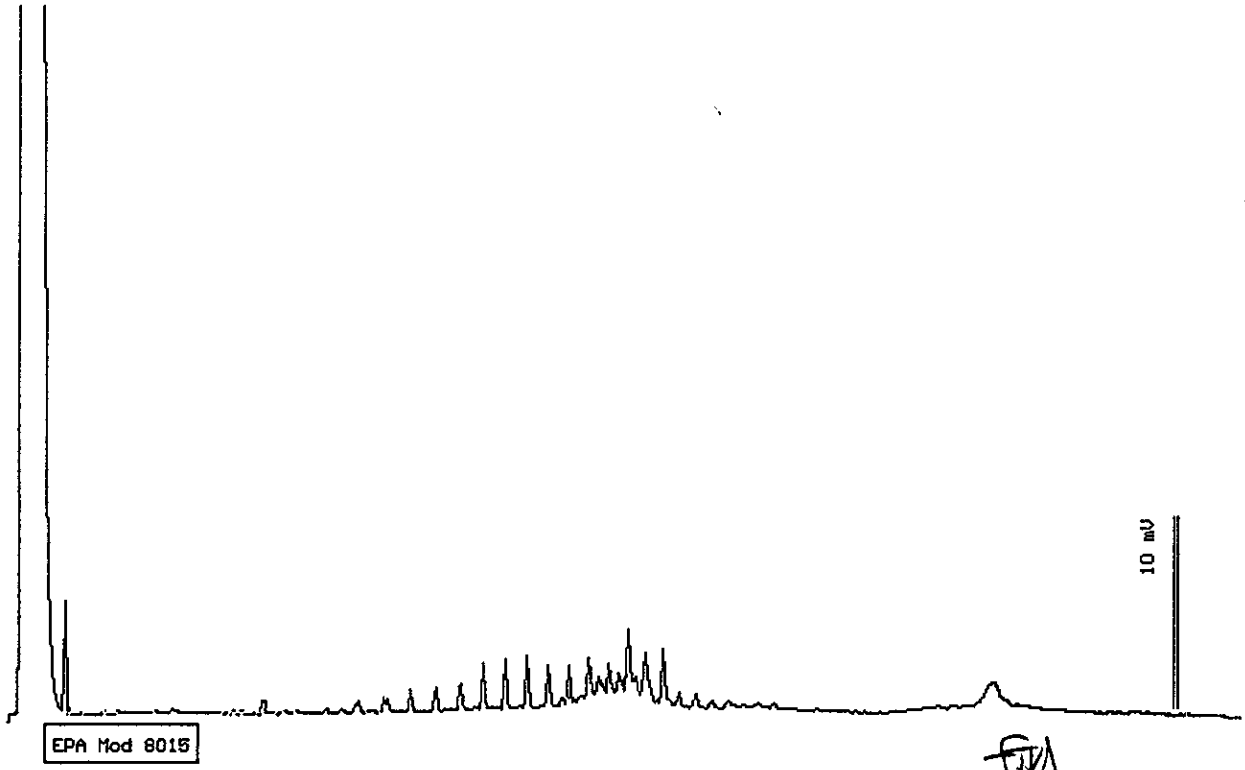
Sample Log 20528

20528-04

Sample: **IB-4.1 (6.0')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Extracted: 09/09/99 QC Batch : DS990902
Dilution : 1:1 Run Log : 7450E
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0
TPH as Motor Oil	(10)	<10



Date: 09-10-99 Time: 11:13:33
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

Acculabs Inc.

Davis

Sample Log 20528

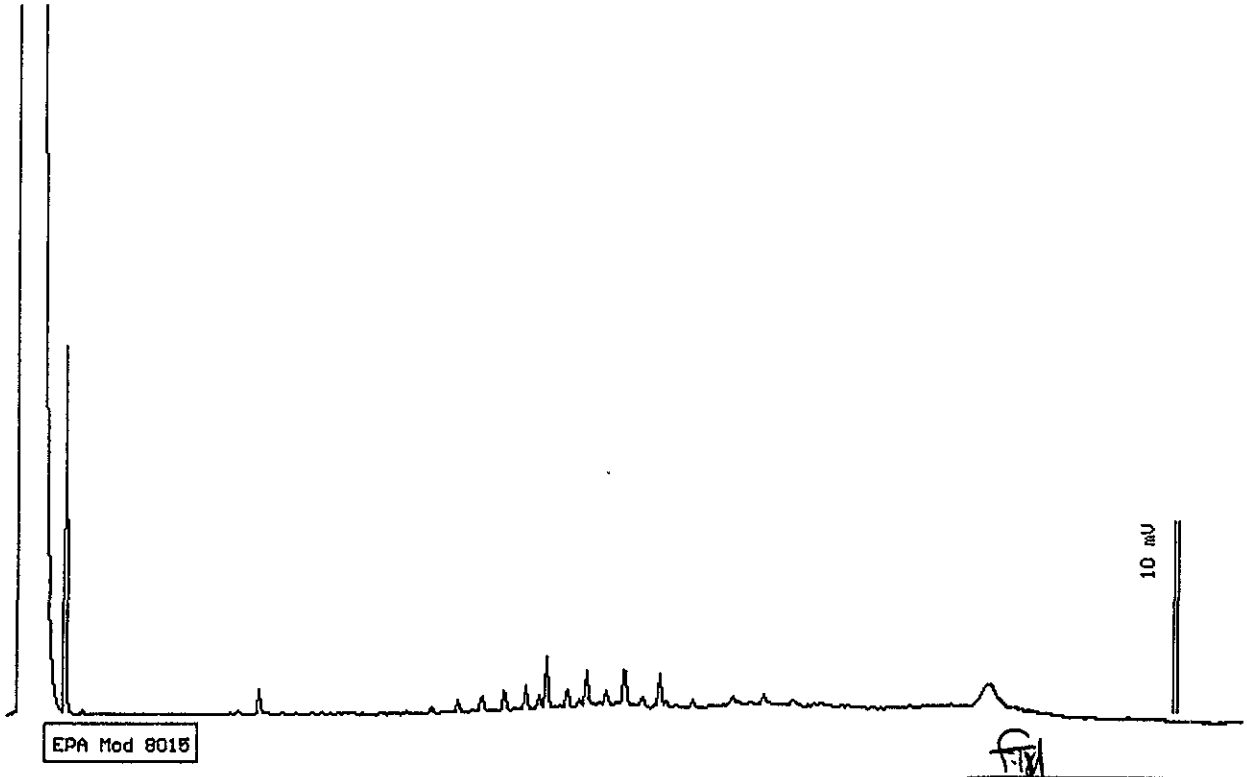
20528-05

Sample: **IB-5.1 (5.5')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Extracted: 09/09/99
Dilution : 1:1
Matrix : Soil

QC Batch : DS990902
Run Log : 7450E

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0
TPH as Motor Oil	(10)	<10



Date: 09-10-99 Time: 11:47:28
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

Acculabs Inc.
Davis

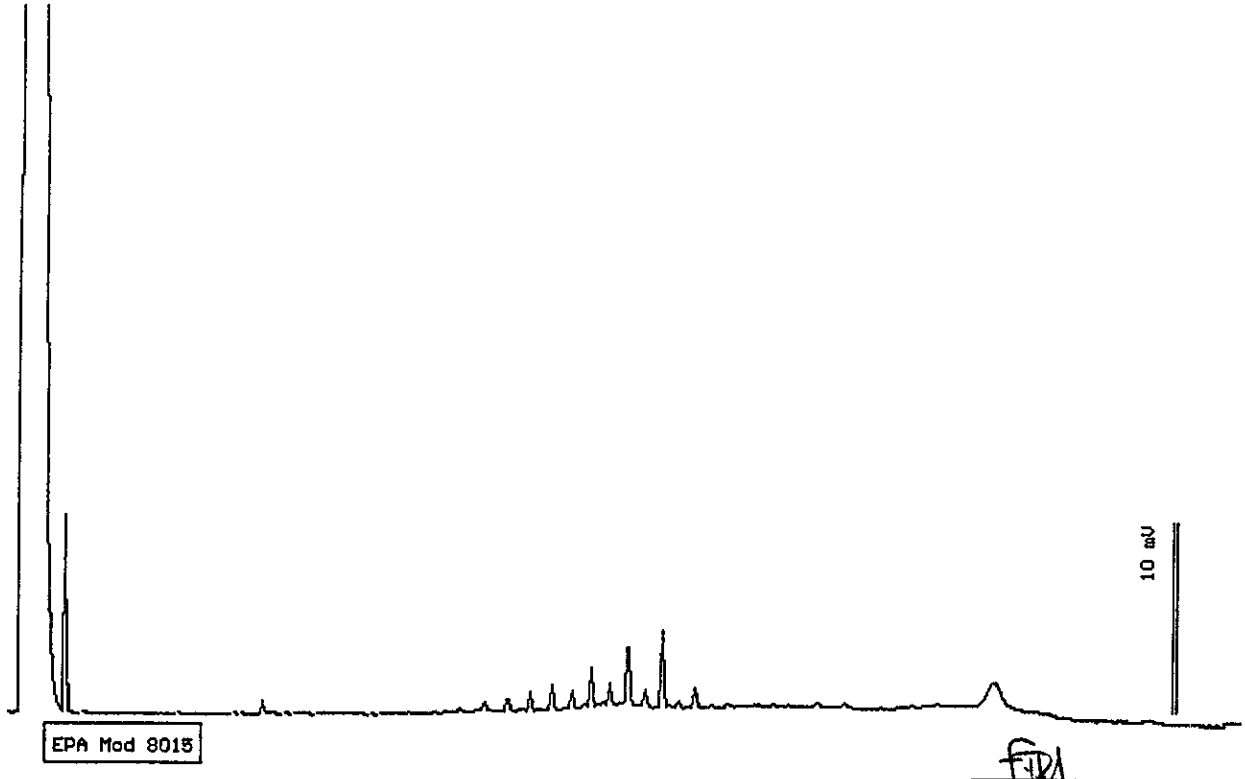
Sample Log 20528
20528-06

Sample: **IB-6.1 (7.5')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Extracted: 09/09/99
Dilution : 1:1
Matrix : Soil

QC Batch : DS990902
Run Log : 7450E

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0
TPH as Motor Oil	(10)	<10



Date: 09-10-99 Time: 12:21:38
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

Acculabs Inc.

Davis

Sample Log 20528

20528-07

Sample: **IB-7.1 (5.5')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Extracted: 09/09/99 QC Batch : DS990902
Dilution : 1:1 Run Log : 7450E
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0
TPH as Motor Oil	(10)	<10

Date: 09-10-99 Time: 12:56:21
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

Acculabs Inc.

Davis

Sample Log 20528

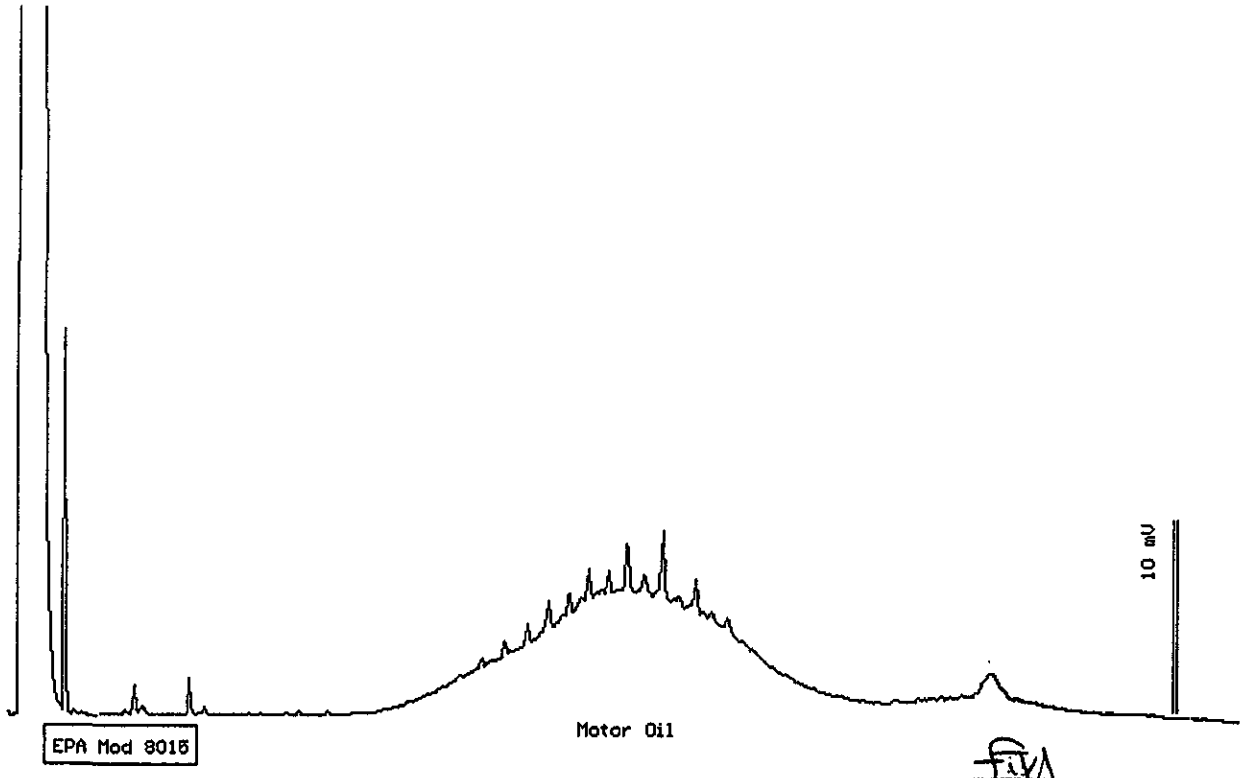
20528-08

Sample: **IB-8.1 (7.5')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Extracted: 09/09/99
Dilution : 1:1
Matrix : Soil

QC Batch : DS990902
Run Log : 7450E

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0
TPH as Motor Oil	(10)	<10



Date: 09-10-99 Time: 13:31:39
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Rodolsky
Senior Chemist

Acculabs Inc.

Davis

Sample Log 20528

20528-09

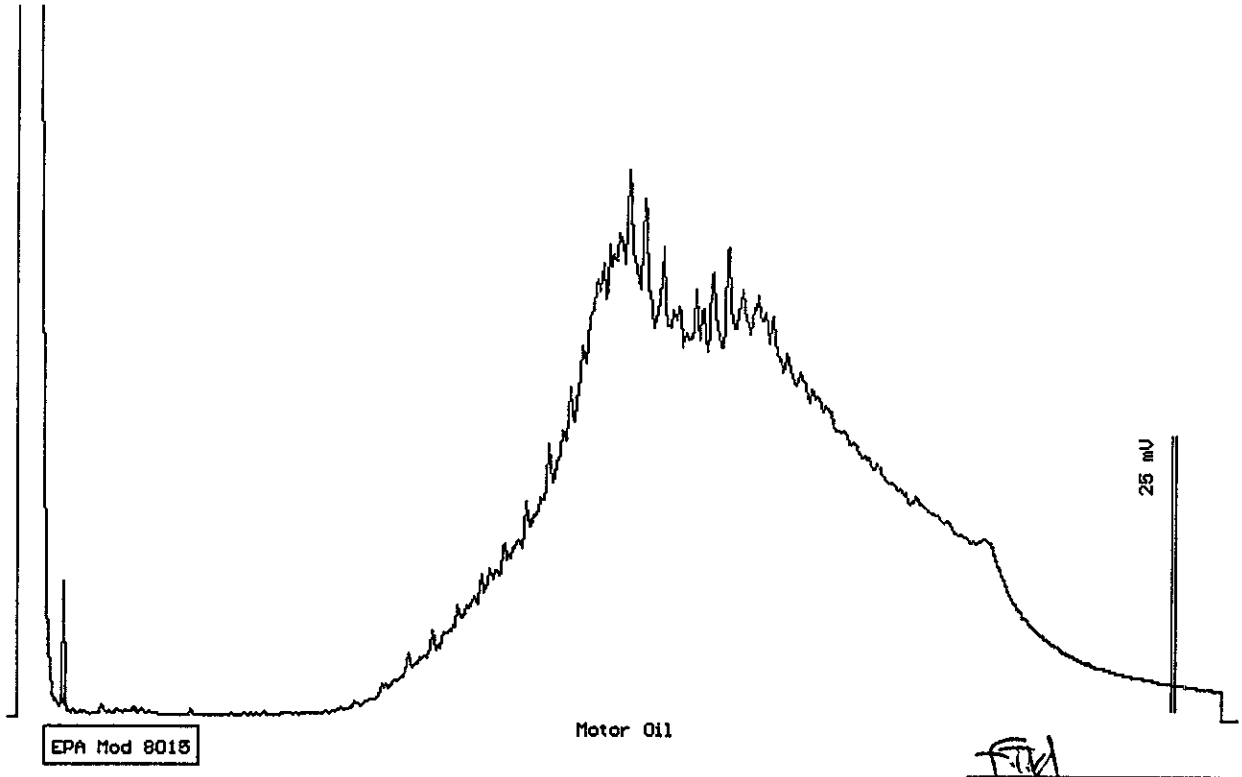
Sample: **IB-9.1 (5.5')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Extracted: 09/09/99
Dilution : 1:1
Matrix : Soil

QC Batch : DS990902
Run Log : 7450E

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(3.0)	<3.0 *
TPH as Motor Oil	(10)	58

* Increased reporting limit due to oil range interference.



Date: 09-10-99 Time: 14:06:21
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

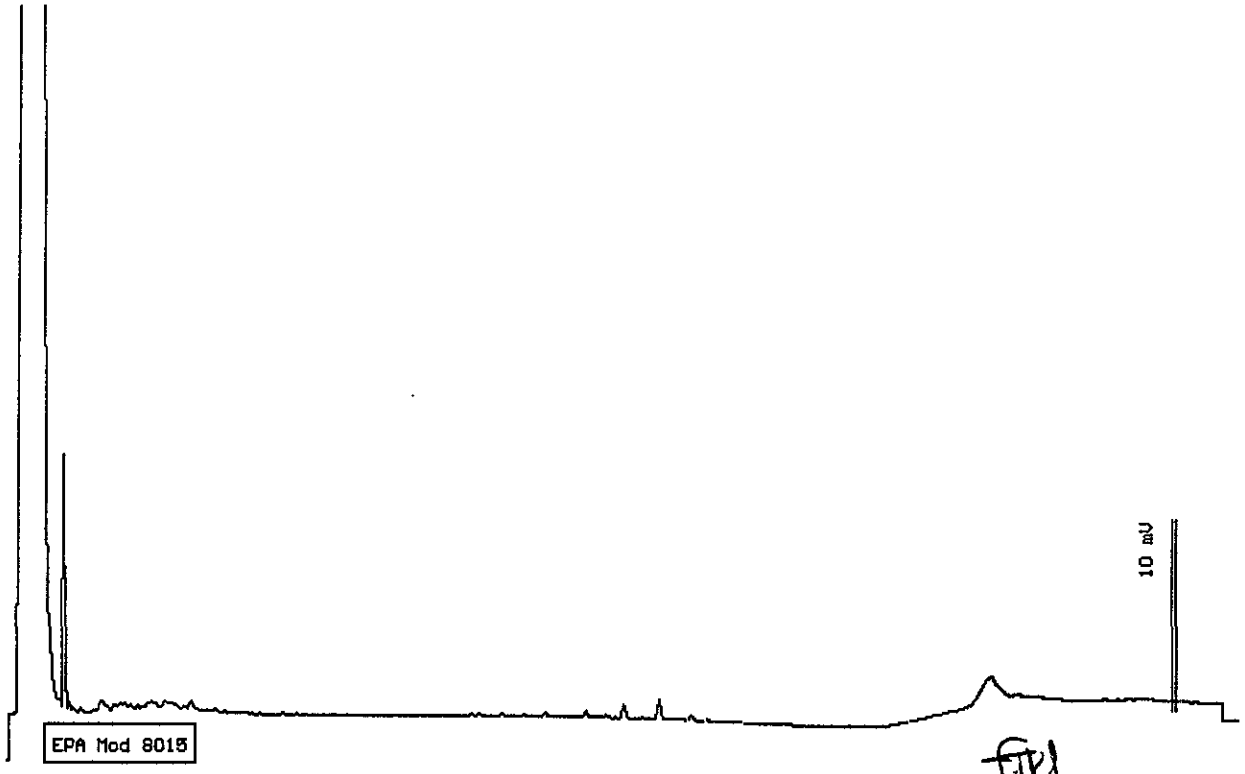
Acculabs Inc.
Davis

Sample Log 20528
20528-10

Sample: **IB-10.1 (7.5')**

From : CSE-55TH (Proj. # 167-01-01)
Sampled : 09/07/99
Extracted: 09/09/99 QC Batch : DS990902
Dilution : 1:1 Run Log : 7450E
Matrix : Soil

Parameter	(MRL) mg/kg	Measured Value mg/kg
TPH as Diesel	(1.0)	<1.0
TPH as Motor Oil	(10)	<10



Date: 09-10-99 Time: 14:41:01
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

Acculabs Inc. September 10, 1999

QC Report
TPH Diesel by 8015 Mod

QC Batch: DS990902 Matrix: Soil

Spike and Spike Duplicate Results

Parameter	Matrix Spike (%Rec)	Matrix Spike Dup. (%Rec)	RPD %
TPH as Diesel	127	110	14

Laboratory Control Spike

Parameter	Laboratory Control Spike (%Rec)
TPH as Diesel	116

Method Blank

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

Tom Kwoka
Lab Director

Client: Acculabs Inc.
Attn: Troy Turpen

Client's Project: CSE-55th, 167-01-01, PO#20528

Date Received: 09/09/99
Date Sampled: 09/07/99

Lab No.	Sample I.D	Analysis	Date Analyzed	Results	Matrix, Units	MDL	DLR	Analyst
38228-001	20528-01	EPA 350.2 (Ammonia)	09/15/99	ND	Soil, mg/kg	0.75	0.75	NS
38228-002	20528-02	EPA 350.2 (Ammonia)	09/15/99	2.3	Soil, mg/kg	0.75	0.75	NS
38228-003	20528-03	EPA 350.2 (Ammonia)	09/15/99	2.0	Soil, mg/kg	0.75	0.75	NS
38228-004	20528-04	EPA 350.2 (Ammonia)	09/15/99	ND	Soil, mg/kg	0.75	0.75	NS
38228-005	20528-05	EPA 350.2 (Ammonia)	09/15/99	ND	Soil, mg/kg	0.75	0.75	NS
38228-006	20528-06	EPA 350.2 (Ammonia)	09/15/99	ND	Soil, mg/kg	0.75	0.75	NS
38228-007	20528-07	EPA 350.2 (Ammonia)	09/15/99	ND	Soil, mg/kg	0.75	0.75	NS
38228-008	20528-08	EPA 350.2 (Ammonia)	09/15/99	10	Soil, mg/kg	0.75	0.75	NS
38228-009	20528-09	EPA 350.2 (Ammonia)	09/15/99	ND	Soil, mg/kg	0.75	0.75	NS
38228-010	20528-10	EPA 350.2 (Ammonia)	09/15/99	2.0	Soil, mg/kg	0.75	0.75	NS

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DF = Dilution Factor (DLR/MDL)

Reviewed/Approved By: _____
Cristeta Rocamora
Inorganics Supervisor

Date: 9/17/99

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories

1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Spike Recovery and RPD Summary Report

Method: EPA 350.2
Analyst: NS
Data File: 9258-1S

Date: 09/15/99
Sample ID: 38228-010
Matrix: SOIL
QC Batch: 3502990915S-1

ANALYTE	UNITS	LCS Conc	LCS Res	% Rec	METH BLK	SPL CONC	SPK ADD	MS RSLT	MSD RSLT	%MS REC	%MSD REC	REC Lmt	RPD	RPD Lmt	MDL
Ammonia	mg/Kg	25	25	100	ND	2	25	23	25	84	92	50-150	9	50	0.75

Approved by: _____
Cristeta Rocamora
Inorganics Supervisor

Date: 9/17/99

Advanced Technology Laboratories

Acculabs - Davis/Sacramento

Subcontracted Tests Form

Project Name : CSE-55TH
Project Number : 167-01-01
Project Manager: Troy Turpen

Laboratory Name Advanced Technology

Mail Results and Invoices To 1046 Olive Drive, Suite 2, Davis, CA 95616
Fax Results To 530-753-6091
Call 530-757-0920 with questions
Use this number as a Purchase Order No.: **20528**

Number	Name	Mx.	Date Sampled	Tests
20528-01	IB-1.1 (6.0')	SO	09/07/99	[redacted], Total Ammonia
	Location:			No. of Containers: 1
20528-02	IB-2.1 (5.5')	SO	09/07/99	[redacted], Total Ammonia
	Location:			No. of Containers: 1
20528-03	IB-3.1 (5.5')	SO	09/07/99	[redacted], Total Ammonia
	Location:			No. of Containers: 1
20528-04	IB-4.1 (6.0')	SO	09/07/99	[redacted] Total Ammonia
	Location:			No. of Containers: 1
20528-05	IB-5.1 (5.5')	SO	09/07/99	[redacted], Total Ammonia
	Location:			No. of Containers: 1
20528-06	IB-6.1 (7.5')	SO	09/07/99	[redacted], Total Ammonia
	Location:			No. of Containers: 1
20528-07	IB-7.1 (5.5')	SO	09/07/99	[redacted] Total Ammonia
	Location:			No. of Containers: 1

Remarks: Page 1 of 2. Check for analyses forthcoming. -T.

Relinquished by:	Received by:	Date	Time
Troy D. Turpen	via Fed Ex	9-8-99	1800
	Diane Galvan	9-9-99	1030

Due Date/Time : 9-15-99 / 1700

Subcontract Lab Reference # : _____

Fax this form to 530-753-6091 when reference number has been assigned to samples and written in space above.

Please fax results prior to mailing.

Acculabs - Davis/Sacramento

Subcontracted Tests Form

Project Name : CSE-55TH
Project Number : 167-01-01
Project Manager: Troy Turpen

Laboratory Name Advanced Technology

Mail Results and Invoices To 1046 Olive Drive, Suite 2, Davis, CA 95616

Fax Results To 530-753-6091

Call 530-757-0920 with questions

Use this number as a Purchase Order No.: **20528**

Number	Name	Mx.	Date Sampled	Tests
20528-08	IB-8.1 (7.5')	SO	09/07/99	[redacted], Total Ammonia
	Location:			No. of Containers: 1
20528-09	IB-9.1 (5.5')	SO	09/07/99	[redacted], Total Ammonia
	Location:			No. of Containers: 1
20528-10	IB-10.1 (7.5')	SO	09/07/99	[redacted] Total Ammonia
	Location:			No. of Containers: 1

Remarks: Page 2 of 2

Relinquished by:	Received by:	Date	Time
Troy D. Turpen	via Fed Ex	9-8-99	1800
	Diane Galvan	9-9-99	1030

Due Date/Time : 9-15-99 / 1700

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Fax this form to 530-753-6091 when reference number has been assigned to samples and written in space above.

Please fax results prior to mailing.

Acculabs Inc.

[ ] 3902 E. University Dr. Phoenix AZ 85034 602-437-0979 Fax 437-0826
[ ] 710 E. Evans Blvd. Tucson AZ 85713 520-884-5811 Fax 884-5812
[ ] 2020 W. Lone Cactus Dr. Phoenix AZ 85027 602-780-4800 Fax 780-7695
[ ] 4663 Table Mountain Dr. Golden CO 80403 303-277-9514 Fax 277-9512
[ ] 992 Spice Islands Dr. Sparks NV 89431 702-355-0202 Fax 355-0817
[ ] 1046 Olive Drive #2 Davis CA 95616 530-757-0920 Fax 753-6091

Lab Number: 20528

Report Due Date: 9-15-99

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	CSE-55TH	Collection Point	
Fax	707/748-7763	Project Number	167-01-01	Collector's Name	
P.O. Number		Fax Results (Y) N	Page 1 of 1	Location (City)	

SAMPLE TYPE CODES

DW = drinking water; WW = waste water; MW = monitoring well; HW = hazardous waste; TB = travel blank; SD = solid; SO = soil; SL = sludge

Compliance Monitoring Y N

TURNAROUND TIME REQUESTED

(Standard) RUSH Special

Lab Director Approval

CLIENT'S SAMPLE ID/LOCATION	Date	Time	Sample Type	Containers	TPH-GBTEX/MTBE	TPH-D/MO	TOTAL AMMONIA	HOLD	Spl. No.
IB-1.1 (6.0')	9/7/99		S	1	X	X	X		01
IB-2.1 (5.5')	9/7/99		S	1	X	X	X		02
IB-3.1 (5.5')	9/7/99		S	1	X	X	X		03
IB-4.1 (6.0')	9/7/99		S	1	X	X	X		04
IB-5.1 (5.5')	9/7/99		S	1	X	X	X		05
IB-6.1 (7.5')	9/7/99		S	1	X	X	X		06
IB-7.1 (5.5')	9/7/99		S	1	X	X	X		07
IB-8.1 (7.5')	9/7/99		S	1	X	X	X		08
IB-9.1 (5.5')	9/7/99		S	1	X	X	X		09
IB-10.1 (7.5')	9/7/99		S	1	X	X	X		10

SAMPLE RECEIPT			Date	Time	Samples Relinquished By	Samples Received By
Received Cold	Y	N	9/8	09:16	Stanton Stanfield	
Custody Seals	Y	N	9/8	10:02		Tracy D. Simpson
Seals Intact	Y	N				
No. of Containers						

Acculabs' terms are: Net 40 (Payment must be received by the date shown on the invoice or any discount is void)

c:\excel\forms\chain.xls