ENVIRONMENTAL CONSULTANTS

95 JUN 30 AM 8:18

PHASE II - ENVIRONMENTAL SITE INVESTIGATION
2703 MARTIN LUTHER KING JR. WAY
OAKLAND, CA

Prepared for:

Rankin, Sproat, & Pollack
1800 Harrison Street, Suite 1616
Oakland, CA 94612
on behalf of

Acme Ambulance Company

June 1995

Job Number: 94-6254-1.0

Prepared by: _____

Misty Kaltreider
Project Geologist

Reviewed by: _____

David R. DeMent, RG #5874
Senior Project Geologist

REGISTERED GEOLOGIST
DAVID R. DEMENT
NO. 5874
STATE OF CALIFORNIA

1000 Atlantic Avenue, Suite 110 •Alameda, CA 94501 •(510) 522-8188 •FAX: (510) 865-5731

A·C·C
ENVIRONMENTAL
CONSULTANTS

June 28, 1995

Ms. Trish Fuzesy
Rankin, Sproat & Pollack
1800 Harrison Street, Suite 1616
Oakland, CA 94604

RE: Report of Subsurface Investigation
2703 Martin Luther King Jr. Way, Oakland, CA
Alameda County Permit No. 95300

Dear Ms. Fuzesy:

Enclosed, please find the report for work completed to date at the above referenced site.

Please review the report and contact me with any comments. Upon your authorization a copy of the report will be submitted to Ms. Jennifer Eberle of Alameda County Health Care Services Agency for review.

Sincerely,

Misty Kaltreider
Project Geologist

1000 Atlantic Avenue, Suite 110 •Alameda, CA 94501 •(510) 522-8188 •FAX: (510) 865-5731

LAW OFFICES
RANKIN, SPROAT & POLLACK
AN ASSOCIATION OF PROFESSIONAL CORPORATIONS
1800 HARRISON STREET
SUITE 1616
POST OFFICE BOX 28765
OAKLAND, CALIFORNIA 94604
TELEPHONE (510) 465-3922

369 PINE STREET
SUITE 400
SAN FRANCISCO, CA 94104
REPLY TO: OAKLAND
TELECOPIER - OAKLAND
(510) 452-3006

PATRICK T. RANKIN (1943-1990)
RONALD G. SPROAT
EDWARD VAIL POLLACK
GEOFFREY A. MIRES
THOMAS A. TRAPANI
MICHAEL J. REISER

GREGORY P. MENZEL
LYNNE P. MCGHEE
DAVID T. SHUEY
G. TRENT MORROW
EUGENE ASHLEY
ANN H. LARSON

June 30, 1995

VIA HAND DELIVERY

Ms. Jennifer Eberle
Hazardous Materials Specialist
ALAMEDA COUNTY HEALTH AGENCY
DIVISION OF ENVIRONMENTAL PROTECTION
DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

RE: Our Client: Acme Ambulance Services
Site Location: 2703 Martin Luther King, Jr. Way, Oakland

Dear Ms. Eberle:

Per your request, we are hand-delivering the report prepared by ACC Environmental Consultants on behalf of our client, Acme Ambulance Services for the site location of 2703 Martin Luther King Jr. Way, Oakland, CA.

I trust you will be in contact with either myself or Michael Reiser upon completion of your review of the report. I will be on vacation next week, returning to the office Monday, July the 10th. Mr. Reiser will be on vacation and out-of-state for depositions in another case for the next two weeks, returning to the office Monday, July the 17th. Either of us can be reached after those dates at (510) 465-3922.

Very truly yours,

TRISH FUZESY
Paralegal

:tjf

Enclosure

TRISH J. FUZESY
PARALEGAL

LAW OFFICES
RANKIN, SPROAT & POLLACK
AN ASSOCIATION OF
PROFESSIONAL CORPORATIONS

1800 HARRISON STREET
SUITE 1616
P. O. BOX 28765
OAKLAND, CALIFORNIA 94604
TELEPHONE (510) 465-3922

MICHAEL J. REISER
ATTORNEY AT LAW

LAW OFFICES
RANKIN, SPROAT & POLLACK
AN ASSOCIATION OF
PROFESSIONAL CORPORATIONS

1800 HARRISON STREET
SUITE 1616
P. O. BOX 28765
OAKLAND, CALIFORNIA 94604
TELEPHONE (510) 465-3922

TABLE OF CONTENTS

TABLES

ATTACHMENTS

1.0 INTRODUCTION

This report presents the procedures and findings of the soil investigation conducted by ACC Environmental Consultants, Inc., (ACC) for the property located at 2703 Martin Luther King Jr. Way, Oakland, California, (Figure 1). The project objective was to evaluate the subsurface impact from previous underground storage of petroleum fuels onsite.

2.0 BACKGROUND

From approximately 1959 through 1979 Shell Oil Company (Shell) owned and operated a service station on the above referenced site. Copies of three aerial photographs are attached in Appendix A. The aerial photographs were taken on May 2, 1969, May 19, 1975, and July 19, 1977 and illustrate the configuration of the station and locations of the dispenser islands during Shell ownership. Mr. Wilfrey Sanders, neighbor and former employee of Acme Ambulance Company (ACME) indicated, in a phone conversation to ACC, that during ownership, Shell dispensed and sold three types of gasoline which consisted of "Super, Regular, and Ethyl" fuel. In addition, Mr. Sanders stated that Shell also had a waste oil storage tank. Mr. Sanders indicated that Shell removed three underground storage tanks, approximately 10,000-gallon capacity each, upon vacating the property. No record was found which documents confirmatory soil or groundwater sampling during the tank removal or indicating the location of the waste oil tank.

In 1979 Acme purchased the property and subsequently installed one 2,000-gallon underground storage tank for dispensing unleaded gasoline fuel. Acme sold the property in 1986 to Auto-Tech West (ATW) who reportedly never used the underground storage tank.

In October 1994, KTW & Associates, on behalf of ATW, removed the 2,000-gallon underground storage tank. The tank was reportedly in good condition within no observable holes or corrosion. During the tank removal, additional piping, concrete, and debris was observed within the tank excavation indicating that the tank was installed within the vicinity of the former Shell fuel tank excavation. Observations made during the tank removal by KTW & Associates indicated that odor and discoloration of the soil increased with depth. The tank excavation remains open and stockpiled soil currently exists onsite. the samples were not taken at various depths.

Due to the finding from the 1994 tank removal, Alameda County Health Care Services Agency requested further investigation as to the extent and magnitude of impact in the soil and groundwater. This report documents the preliminary subsurface investigation completed at the site.

3.0 FIELD PROCEDURES

3.1 Subsurface Investigation

Prior to conducting the subsurface investigation, a permit was obtained through the Alameda County Flood Control and Water Conservation District - Zone 7. A copy of the permit is attached in Appendix B. On May 23, 1995, nine borings (B1 through B9) were drilled onsite and around the existing excavation using a pneumatic sampling tool. Boring locations are illustrated on Figure 2 - Site Plan. The pneumatic sampling tool used for the subsurface investigation was equipped with 5-foot section of 3/4-inch inside diameter galvanized steel probe pipe which was connected to a 1-foot long galvanized steel soil core tube. Stainless steel insert rods were placed through the probe pipe and sampling core. The probe pipe, soil core and insert rods were together pneumatically driven using a percussion hammer to the depth desired. The insert rods were removed and the probe pipe and core were driven one foot to obtain a soil sample. The probe pipe, insert rods, and sampling core were all pre-cleaned prior to use and between sample drives by washing with trisodium phosphate (TSP) as potable water solution, a potable water rinse, and distilled water rinse.

Soil samples were collected every five feet to a total depth of 10 to 15 feet below ground surface (bgs). Subsurface soil samples were obtained by drilling to the approximate sampling location and driving the sampler twelve inches into undisturbed material. Upon removal from the sampler, each sample was logged by the geologist, labeled, and stored in an ice-filled cooler to be transported under chain of custody to Chromalab, Inc., a state certified laboratory.

An HNu photoionization detector (PID) was used during drilling and sampling procedures to detect field evidence of volatile hydrocarbon vapor in the soil. Field indications of petroleum hydrocarbons (i.e. odor and discoloration) were detected in the soil at depth of 5 and 10 feet bgs from the borings. Water was encountered within each boring at approximately 9 feet below ground surface (bgs) in boring B1 and B2 and 14 feet in the additional borings. No saturated zones were encountered during drilling B3 & B4. Elevated groundwater within borings B1 and B2 indicate possible perched saturated soils in the area of the former Shell tanks and dispenser island, possibly from the fill acting as conduit for subsurface water.

Soil samples collected from each boring were submitted for analysis of Total Petroleum Hydrocarbon as gasoline (TPHg) with BTEX by EPA test method 8015/8020. In addition, grab water samples collected from borings B1, B2, B5, B6, B7, B8, and B9 were submitted for analysis of TPHg with BTEX by EPA test method 8015/602. Analytical results and chain of custody forms are provided in Appendix C.

The soil cuttings and samples were logged by an ACC geologist during drilling operations and are described in accordance with the Unified Soil Classification System after review by a California Registered Geologist. Lithologic logs of the borings and the Unified Soil Classification System are attached in Appendix D.

4.0 FINDINGS

4.1 Subsurface Conditions

The site is located on the northeast corner of Martin Luther King Jr. Way and 27th Avenue in Oakland and consists of one shop surrounded by asphalt parking. The building is currently used as an automotive repair facility. During the investigation, the 1994 tank excavation and stockpiled soil was located along the southeastern corner of the building. Borings were drilled around the existing excavation and in the approximately areas of the former Shell dispenser islands and underground storage tanks.

The investigation revealed a parking lot that was covered with a four inch thick asphalt pavement over gravel base rock. Below the baserock, the subsurface soil consisted of olive grey clayey sand to sandy clay, which varied in sand content throughout the investigation to the depth investigated, approximately 15 feet bgs.

Water was encountered during the excavation at approximately 14 to 15 feet bgs (9 feet in borings B1 and B2). When groundwater was encountered, a grab water sample was collected from the open bore holes. No groundwater was encountered in borings B3 and B4. Non-aqueous phase liquid (free product) was encountered within borings B1, B5, B6, and B9. The approximate amount of free product encountered in each boring was estimated during sample removal.

Water samples were collected from the borings with the use of pre-cleaned stainless steel bailers. The water was immediately transferred to laboratory supplied 40-ml VOA vials (without head space) and were placed in a chilled ice chest during transport to Chromalab a state certified analytical laboratory. The product from boring B6 was separated from the water and submitted to Friedman & Bruya, Inc., a EPA certified analytical laboratory for fingerprint characterization and organic lead analysis. The remaining water sample from B6 and the other water samples were submitted for standard TPHg and BTEX analyses at Chromalab.

4.2 Analytical Results

One soil sample from each boring B1 through B8 and one water sample from borings B1, B2, B5, B6, B7, B8, and B9 was submitted to an analytical laboratory for analysis of TPH as gasoline with BTEX. Results of the sample analyses for the soil are summarized in Table 1. Sample results for the water are summarized in Table 2. Analytical results with chain of custody form is attached in Appendix C, and illustrated in Figures 3 and 4.

Table 1 - Analytical Results, Soil 5-23-95

Boring/Sample Depth	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	E. benzene (mg/kg)	Xylenes (mg/kg)
B1-5	63	<0.1	<0.1	0.4	0.1
B2-5	260	0.6	<0.1	4.7	10
B3-6	150	<0.1	<0.1	0.9	0.4
B4-6	55	<0.1	<0.1	0.4	0.2
B5-8	830	1.8	9.2	12.0	33
B6-5	130	<0.1	<0.1	1.0	1.1
B6-10	390	0.3	<0.1	7.3	27
B7-5	<20	<0.1	<0.1	1.0	1.1
B7-10	53	<0.1	<0.1	0.2	0.3
B8-10	<20	<0.1	<0.1	0.1	<0.1

Notes: TPHg = Total Petroleum Hydrocarbons as gasoline
mg/kg = milligrams per kilogram = parts per million (ppm)

Table 2 - Analytical Results, Groundwater 5-23-95

Boring/Sample Number	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	E. benzene (ug/L)	Xylenes (ug/L)
B1-H20	Approximately 0.5 - 0.75 inches of Non-aqueous phase product				
B2-H20	6600	340	24	160	27
*B5-H20	Approximately 0.25 - 0.5 inches of Non-aqueous phase product				
B6-H20	Approximately 1 - 2 inches of Non-aqueous phase product				
B7-H20	89000	21000	11000	3800	16000
B8-H20	<250	<2.5	<2.5	<2.5	<2.5
B9-H20	Approximately 0.5 - 1.0 inches of Non-aqueous phase product				

Notes: TPHg = Total Petroleum Hydrocarbons as gasoline
E.Benzene = ethylbenzene
ug/L = micrograms per Liter = parts per billion (ppb)

* Results from the fingerprint characterization and organic lead analysis indicated product is leaded gasoline manufactured prior to 1984.

5.0 DISCUSSION

A subsurface investigation was conducted onsite to evaluate the soil and groundwater impact from previous underground storage of petroleum fuels. During the investigation, five vent pipes were observed onsite, four of which were located together behind the building and one vent pipe was located on the front side of the building, adjacent to the existing excavation. The four vent pipes located behind the building are believed to have been associated with the former Shell underground storage tanks. Mr. Sanders, a neighbor, and former employee indicated that Shell dispensed leaded fuel from 1959 through 1979 with three fuel tanks onsite. The fourth vent pipe located behind the building is likely associated with a waste oil tank. No additional information or physical evidence was found to indicate the presence or location of the waste oil tank.

The subsurface investigation included drilling borings around the existing excavation and within areas of the former Shell dispenser islands estimated with the use of aerial photographs. A total of nine borings were drilled onsite. During the investigation, indications of petroleum hydrocarbon impact was observed in the soil and groundwater through discoloration, odor and non-aqueous phase free product. Analytical results of soil samples indicated detectable concentrations of petroleum hydrocarbons in boring B1 through B7 at the soil/groundwater interface.

Groundwater samples were collected from each boring where groundwater was encountered. Groundwater samples collected from borings B1, B5, B6 and B9 indicated non-aqueous phase free product on the groundwater. Due to the volume of free product collected from boring B6, a sample of the product (B6-Product) was separately submitted to Friedman and Bruya, Inc. a Seattle based analytical laboratory for fingerprint characterization and organic lead analysis. The fingerprint analysis concluded that the product on the groundwater was manufactured prior to 1984 and was leaded gasoline. Groundwater sample analysis of B8-H20 indicated below detection limits of TPHg and benzene indicating a horizontal extent of groundwater impact onsite in the eastern direction.

6.0 CONCLUSION

The data and observations discussed in this site investigation indicate that soil and groundwater in the vicinity of the tank excavation and the former Shell dispenser island and tanks has been impacted due to a release of leaded gasoline associated with onsite storage of fuel in former underground storage tanks. Fuel fingerprint characterization indicated that the free product observed in grab groundwater samples from borings is leaded gasoline. Since the ACME fuel tank reportedly held only unleaded gasoline, the onsite impact to groundwater appears to be associated with the former Shell leaded fuel tanks and dispenser islands.

Materials were observed in the ACME UST excavation which appear to be the result of prior demolition and excavation work. Abandoned product pipelines were located adjacent to the former Shell dispenser islands which indicate the ACME UST was located in the vicinity of the

former Shell USTs. However, based on the age and condition of the ACME UST at removal and the type of free product observed in numerous exploratory soil borings, it appears that the major impacts to soil and groundwater are the result of fuel releases from the three 10,000-gallon Shell USTs.

7.0 REFERENCES

Guard, H.E. Ng, J., and Laughlin, R.B. September 1983. *Characterization of Gasolines, Diesel Fuels and Their Water Soluble Fractions.* Naval Biosciences Laboratory, Naval Supply Center, Oakland, California.

KTW & Associates, October 26, 1994. *Closure Report for Auto Tech West.* 2703 Martin Luther King, Jr. Way, Oakland, California.

KTW & Associates, March 20, 1995. Letter to Mr. Rod Kwan.

8.0 LIMITATIONS

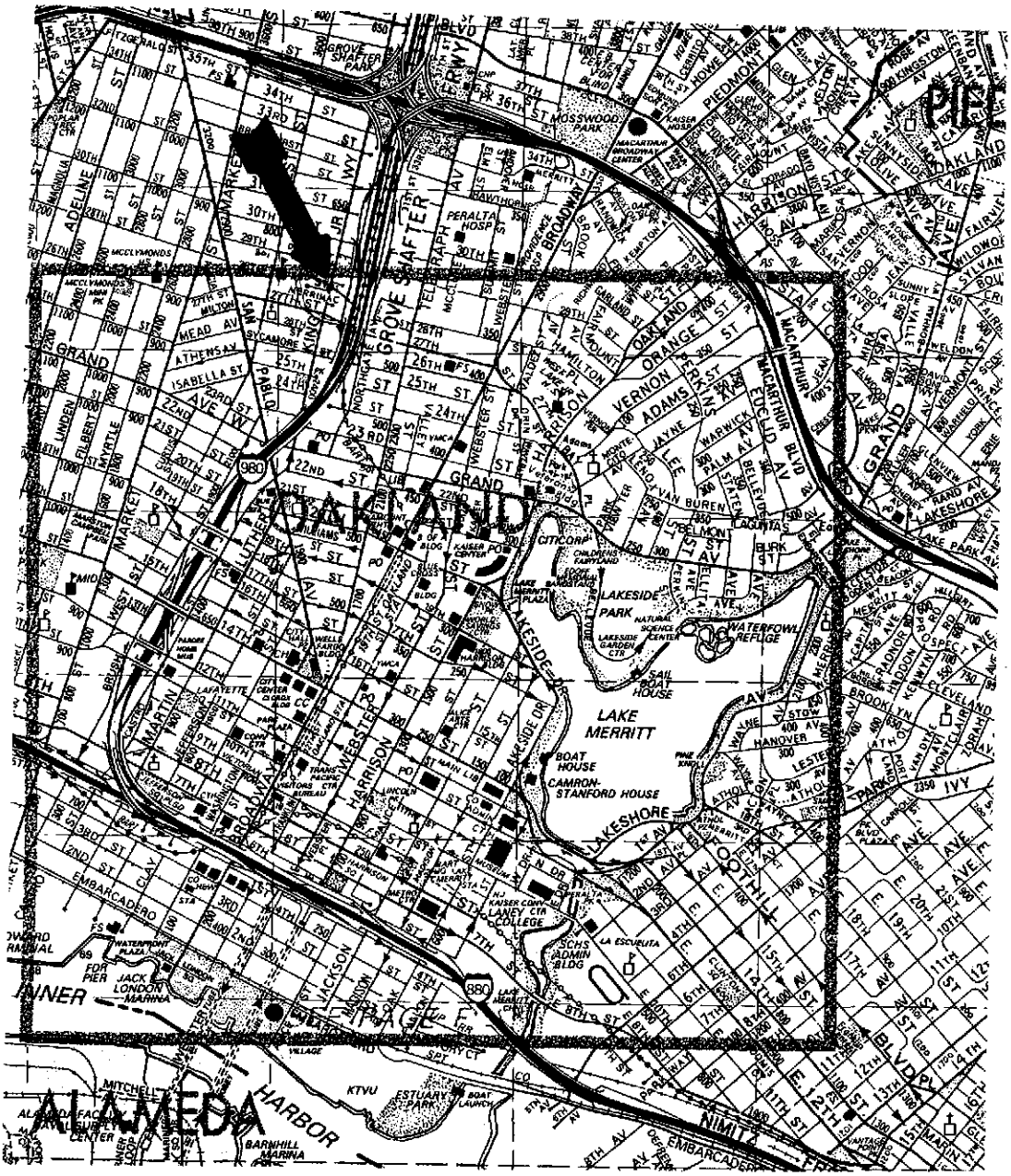
The discussion and recommendations presented in this report are based on the following:

1. The exploratory test borings drilled at the site.
2. The observations by field personnel.
3. The results of laboratory analyses performed by a state certified analytical laboratory.
4. Documents referenced in this report.
5. Our understanding of the regulations of the State of California and the County of Alameda.

It is possible that variations in the soil or groundwater conditions could exist beyond the points explored in this investigation. In addition, changes in the groundwater conditions could occur at some future time due to variations in rainfall, temperature, regional water usage, or other unknown factors.

The service performed by ACC Environmental Consultants has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. Please note that contamination of soil and groundwater must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

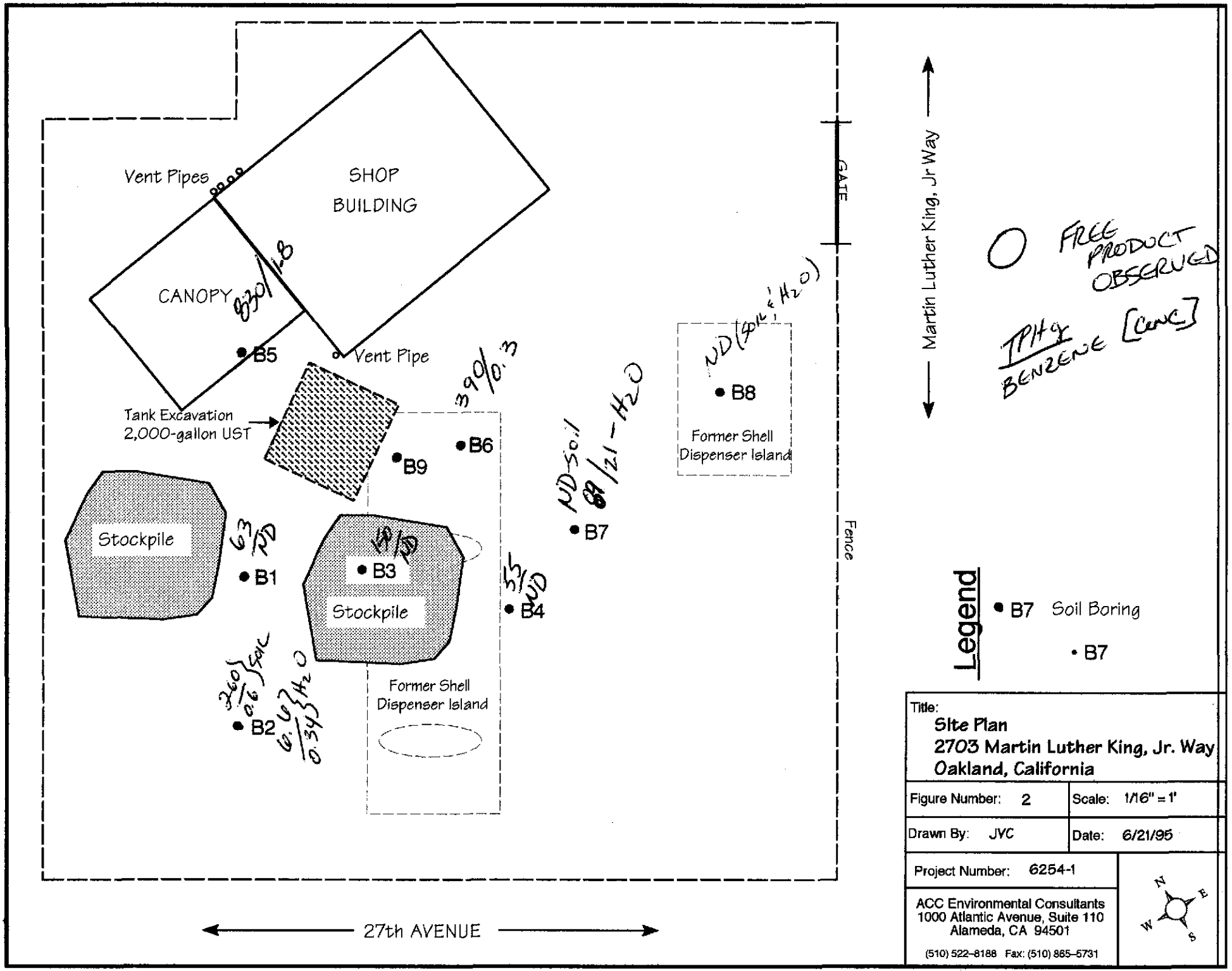
ACC Environmental Consultants included in this report chemical analytical data from a state certified laboratory. The analytical results are performed according to procedures suggested by the unites States Environmental Protection Agency and the State of California. ACC is not responsible for laboratory errors in procedure or result reporting.

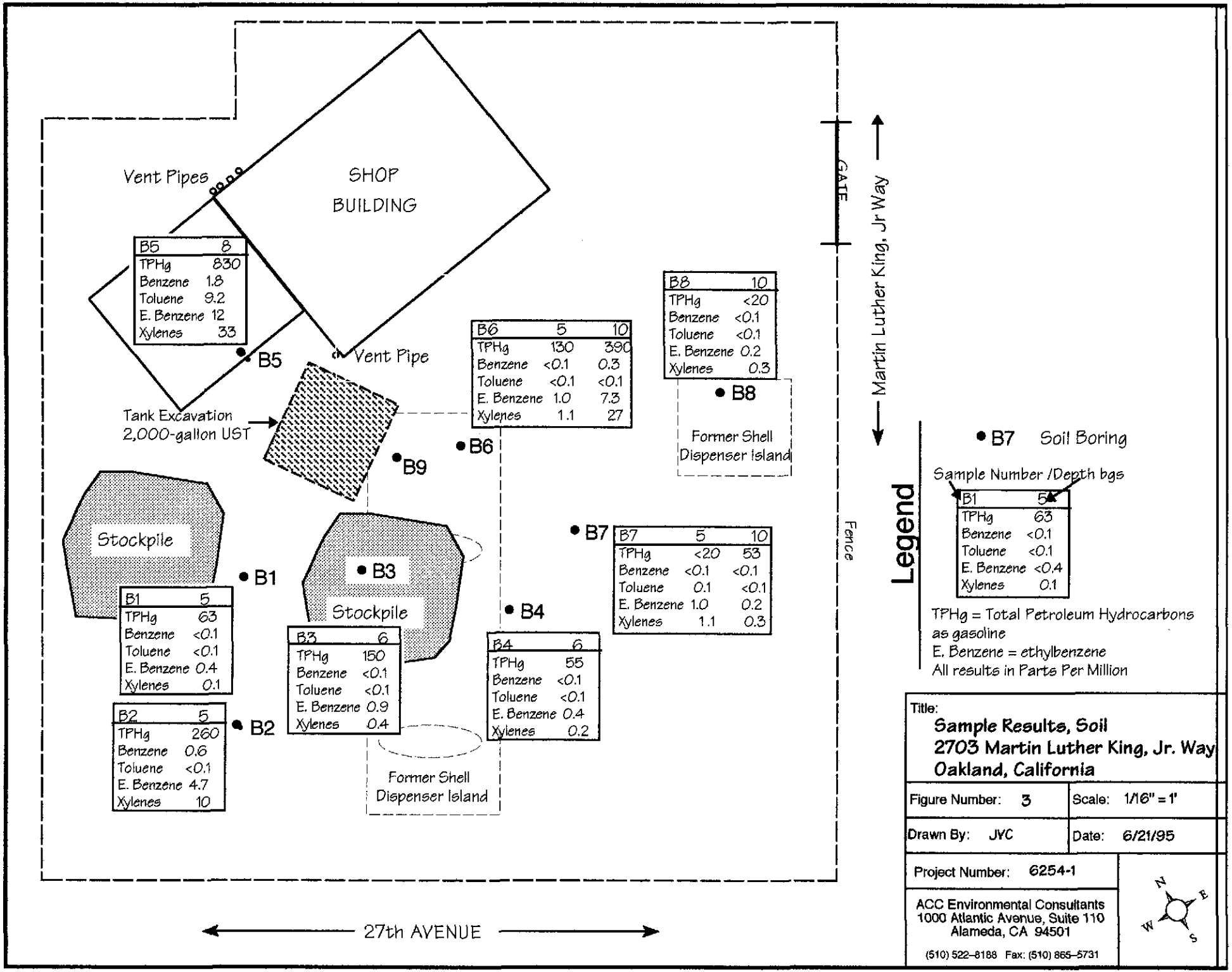


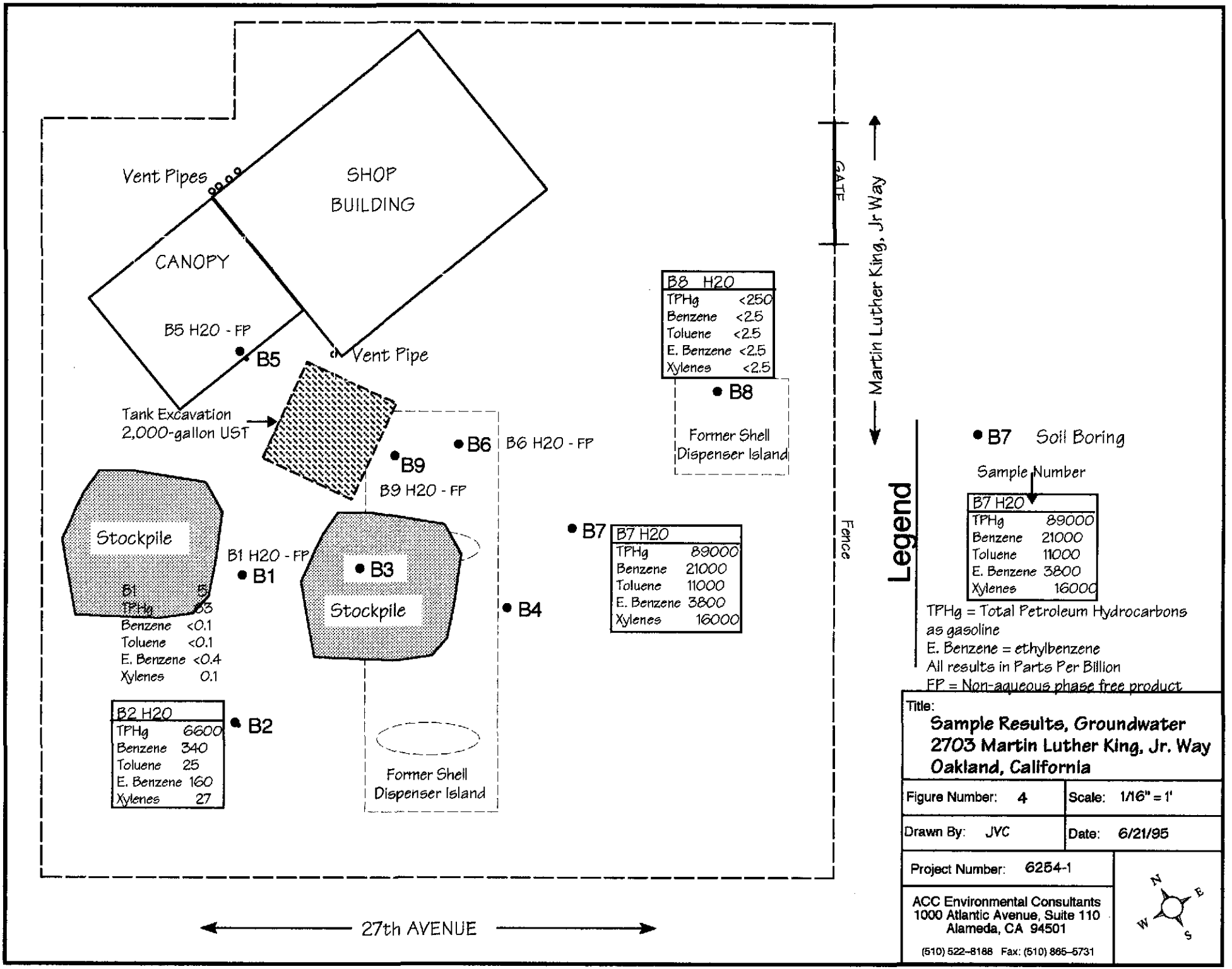
Location Map
2703 Martin Luther King, Jr. Way
Oakland, California

06/26/95	Project #: 6254-1	By: AJH

ACC Environmental Consultants • 1000 Atlantic Avenue, Suite 110 • Alameda, California 94501 • (510) 522–8188


Vent Pipes
SHOP BUILDING
CANOPY
B5
Vent Pipe
Tank Excavation
2,000-gallon UST
B9
B6
B8
Former Shell Dispenser Island
B7
Stockpile
B1
B3
Stockpile
B4
B2
Former Shell Dispenser Island
GATE
Fence
Martin Luther King, Jr Way
27th AVENUE
FREE PRODUCT OBSERVED
TPH-g
BENZENE [conc.]
Legend
B7 Soil Boring
B7
Title:
Site Plan
2703 Martin Luther King, Jr. Way
Oakland, California
Figure Number: 2
Scale: 1/16" = 1'
Drawn By: JVC
Date: 6/21/95
Project Number: 6254-1
ACC Environmental Consultants
1000 Atlantic Avenue, Suite 110
Alameda, CA 94501
(510) 522-8188 Fax: (510) 865-5731
N
E
W
S


Vent Pipes
SHOP BUILDING
B5 8
TPHg 830
Benzene 1.8
Toluene 9.2
E. Benzene 12
Xylenes 33
B5
Vent Pipe
Tank Excavation
2,000-gallon UST
B6 5 10
TPHg 130 390
Benzene <0.1 0.3
Toluene <0.1 <0.1
E. Benzene 1.0 7.3
Xylenes 1.1 27
B6
B9
B8 10
TPHg <20
Benzene <0.1
Toluene <0.1
E. Benzene 0.2
Xylenes 0.3
B8
Former Shell Dispenser Island
GATE
Martin Luther King, Jr Way
Fence
Stockpile
B1
B1 5
TPHg 63
Benzene <0.1
Toluene <0.1
E. Benzene 0.4
Xylenes 0.1
B3
Stockpile
B3 6
TPHg 150
Benzene <0.1
Toluene <0.1
E. Benzene 0.9
Xylenes 0.4
B4
B4 6
TPHg 55
Benzene <0.1
Toluene <0.1
E. Benzene 0.4
Xylenes 0.2
B7
B7 5 10
TPHg <20 53
Benzene <0.1 <0.1
Toluene 0.1 <0.1
E. Benzene 1.0 0.2
Xylenes 1.1 0.3
B2 5
TPHg 260
Benzene 0.6
Toluene <0.1
E. Benzene 4.7
Xylenes 10
B2
Former Shell Dispenser Island
27th AVENUE
Legend
B7 Soil Boring
Sample Number /Depth bgs
B1 5
TPHg 63
Benzene <0.1
Toluene <0.1
E. Benzene <0.4
Xylenes 0.1
TPHg = Total Petroleum Hydrocarbons as gasoline
E. Benzene = ethylbenzene
All results in Parts Per Million
Title:
Sample Results, Soil
2703 Martin Luther King, Jr. Way
Oakland, California
Figure Number: 3
Scale: 1/16" = 1'
Drawn By: JVC
Date: 6/21/95
Project Number: 6254-1
ACC Environmental Consultants
1000 Atlantic Avenue, Suite 110
Alameda, CA 94501
(510) 522-8188 Fax: (510) 865-5731
N
E
W
S



Title:
Sample Results, Groundwater
2703 Martin Luther King, Jr. Way
Oakland, California

Figure Number: 4	Scale: 1/16" = 1'
Drawn By: JVC	Date: 6/21/95
Project Number: 6254-1	

ACC Environmental Consultants
1000 Atlantic Avenue, Suite 110
Alameda, CA 94501
(510) 522-8188 Fax: (510) 865-5731

N E S W

APPENDIX A

AERIAL PHOTOGRAPHS


Pacific Aerial Survey
AV-402-06-20
5/2/69
1" = 40'


Pacific Aerial Survey
AV-1103-06-19
5/19/75
1" = 40'

Pacific Aerial Survey
AV-1377-05-23
7/19/77
1" = 40'

APPENDIX B

DRILLING PERMIT

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94588-5127 • PHONE (510) 484-2600 FAX (510) 462-3914

May 16, 1995

ACC Environmental Consultants, Inc.
1000 Atlantic Avenue, Suite 110
Alameda, CA 94501

Gentlemen:

Enclosed is drilling permit 95300 for a contamination investigation at 2703 Martin Luther King Way in Oakland, CA for Rankin, Sproat and Pollack.

If you have any questions, please contact **Wyman Hong** at 484-2600.

Very truly yours,
Craig A. Mayfield
Craig A. Mayfield
Water Resources Engineer III

WH:djf
encls.

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 2703 Martin Luther King Way
Oakland

CLIENT
Name Rankin, Sproat, & Pollock
Address 180 Harrison, Suite 16/16 Voice
City Oakland, CA Zip 94604

APPLICANT
Name ACC Environmental Consultants Inc
Misty Kaltreider Fax (510) 865-5731
Address 1000 Atlantic Ave, Suite 105 Voice (510) 522-9188
City Alameda Zip 94501

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	___	General	___
Water Supply	___	Contamination	X
Monitoring	___	Well Destruction	___

PROPOSED WATER SUPPLY WELL USE
Domestic ___ Industrial ___ Other ~~Pneumatic Sampler~~
Municipal ___ Irrigation ___

DRILLING METHOD:
Mud Rotary ___ Air Rotary ___ Auger ___
Cable ___ Other Pneumatic Sampler

DRILLER'S LICENSE NO. C57-695970

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

GEOTECHNICAL PROJECTS
Number of Borings 8
Hole Diameter 2 in. Maximum Depth 20 ft.

ESTIMATED STARTING DATE 5/19/95
ESTIMATED COMPLETION DATE 5/19/95

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

APPLICANT'S SIGNATURE Misty Kaltreider Date 5/11/95

FOR OFFICE USE

PERMIT NUMBER 95300
LOCATION NUMBER

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL
(1.) A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 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 WELLS, INCLUDING PIEZOMETERS
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. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

(C.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or 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.

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

E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 16 May 95
Wyman Hong

91992

APPENDIX C

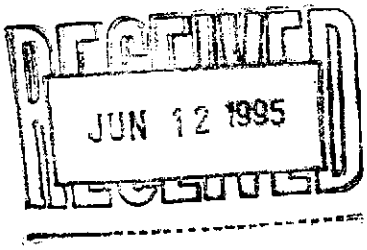
SAMPLE RESULTS
CHAIN OF CUSTODY

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044



June 6, 1995

Misty Koltreider, Project Leader
ACC Environmental Consultants
1000 Atlantic Avenue, Suite 110
Alameda, CA 94501

Dear Ms. Koltreider:

Enclosed are the results from the testing of material submitted on May 31, 1995 from your project #6254-1, 2703 Martin Luther King Jr. Way.

The product appears to be a gasoline manufactured pre-1984, due to ~~the high~~ organic lead content.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Bradley T. Benson
Chemist

jdp
Enclosures
FAX: (510) 865-5731

NAA0606R

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: June 6, 1995
Date Received: May 31, 1995
Project: #6254-1, 2703 Martin Luther King Jr. Way
Date Samples Extracted: June 2, 1995
Date Extracts Analyzed: June 2, 1995

RESULTS FROM THE ANALYSIS OF THE SLUDGE SAMPLE FOR ORGANIC LEAD BY ICP (METHOD 6010)
Results Reported as g/gal

. /g/ gal after 1986

Sample ID	Organic Lead (TEL)
B6-Product	4.0

Quality Assurance	
Blank	<0.005
Spike Blank % Recovery	104%
Spike Level	58

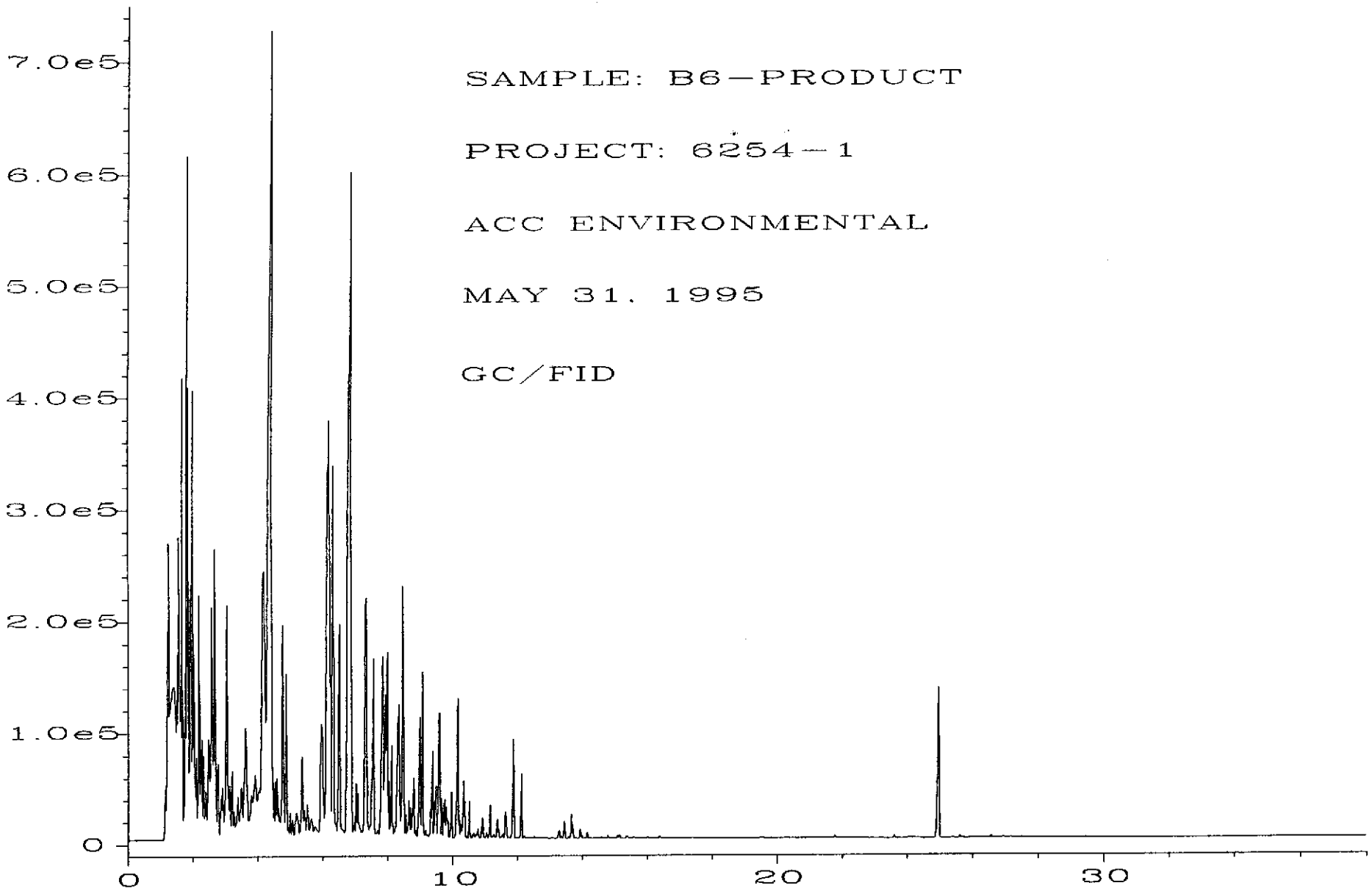
FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: June 6, 1995
Date Received: May 31, 1995
Project: #6254-1, 2703 Martin Luther King Jr. Way
Date Samples Extracted: June 1, 1995

RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE FOR FINGERPRINT CHARACTERIZATION BY CAPILLARY GAS CHROMATOGRAPHY USING A FLAME IONIZATION DETECTOR (FID) AND ELECTRON CAPTURE DETECTOR (ECD)

Sample ID	GC Characterization
B6-Product	The GC trace using the flame ionization detector (FID) showed the presence of low boiling compounds. The patterns displayed by these peaks are indicative of gasoline. The low boiling compounds appeared as a regular pattern of peaks eluting from *n*-C_7 to *n*-C_{14} showing a maximum at about *n*-C_9. The GC/FID trace showed the presence of peaks that appeared to be indicative of low levels of benzene, toluene, ethylbenzene, the xylenes and C_3-benzenes. These compounds are characteristic of the constituents commonly found in gasoline. The GC/ECD trace showed the **possible presence of a suite of lead additives characteristic of old leaded gasolines**. The GC/ECD trace showed the **presence of halogenated compounds**, possibly lead scavengers added to leaded gasolines. The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis. There is a second internal standard peak seen on the GC/ECD trace at about 26 minutes which is dibutyl chlorendate.



Sig. 1 in C:\HPCHEM\4\DATA\05-31-95\039F1801.D

BMS #

ACC Environmental Consultants
1000 Atlantic Ave, Suite 110
Alameda, CA 94501
(510) [illegible] 9180
Fax (510) 865-5731

05-31-95
10:30

Lab Name: [illegible] Bruya, Inc
(206) [illegible]-92
3012 16th Avenue, West
Seattle, WA 98119

CHAIN OF CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
6254-1	2703 Martin Luther King JR Way

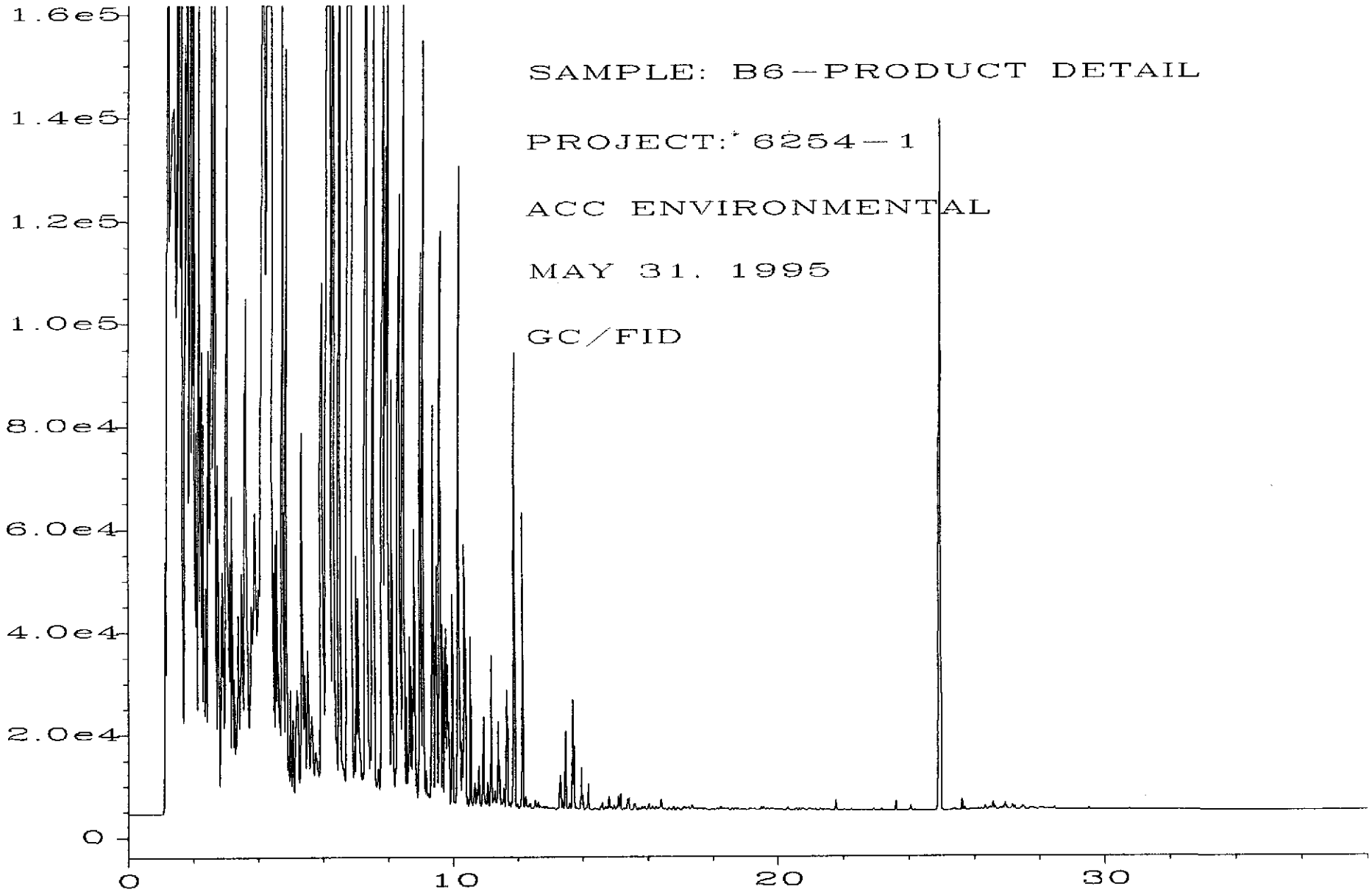
SAMPLER(S) (Signature): [signature]

ID#	Depth	Date	Time	water	Soil	Location	# Containers	HFS (acid)	Cryo c Lead						Remarks
BC Patel	—	5/23/95		✓		Gob Smek	1	X	X						59490

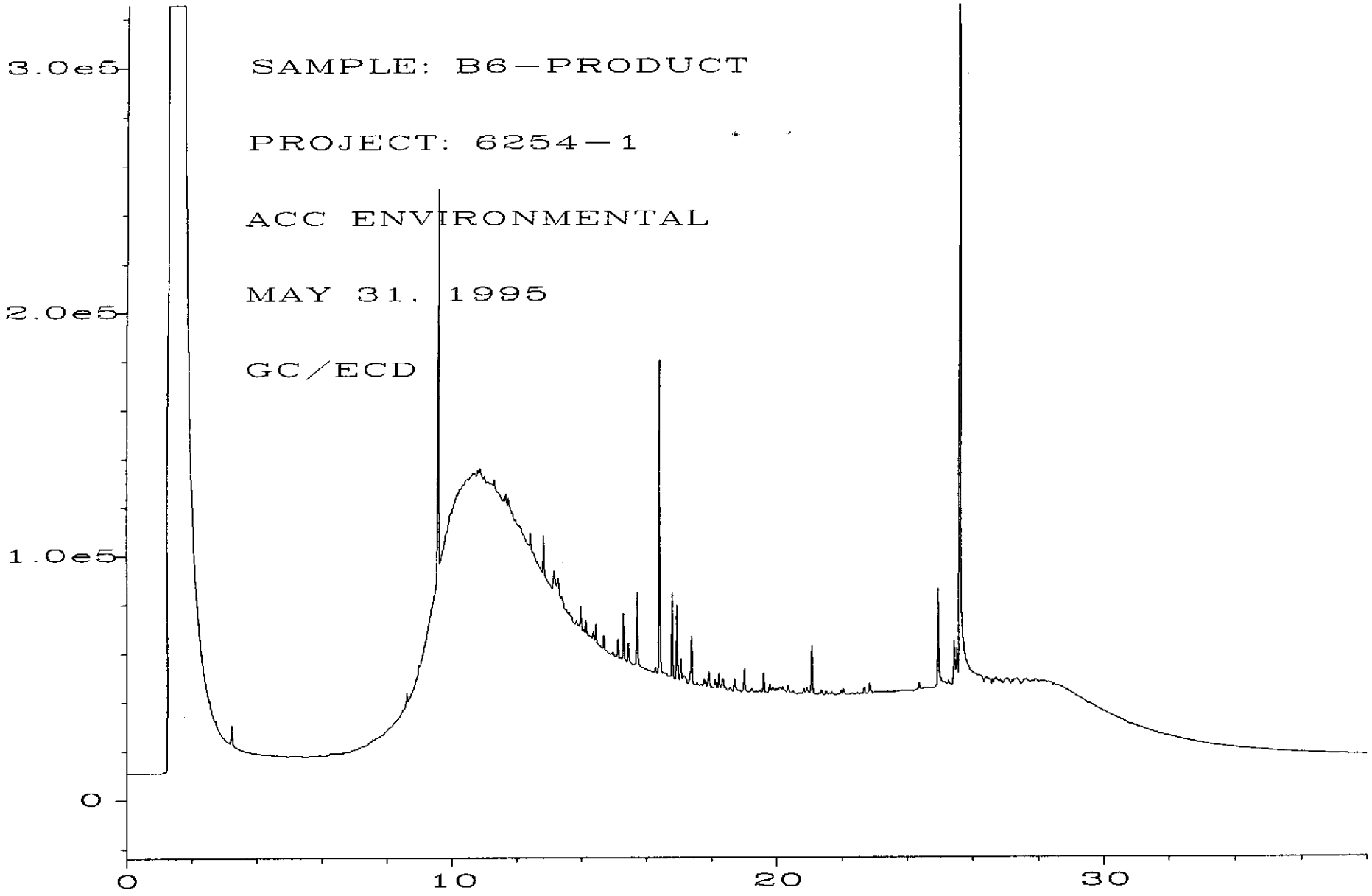
Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
[signature]	5/30/95	1024 5-31-95	Cathy Rizzo · FBI				

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)

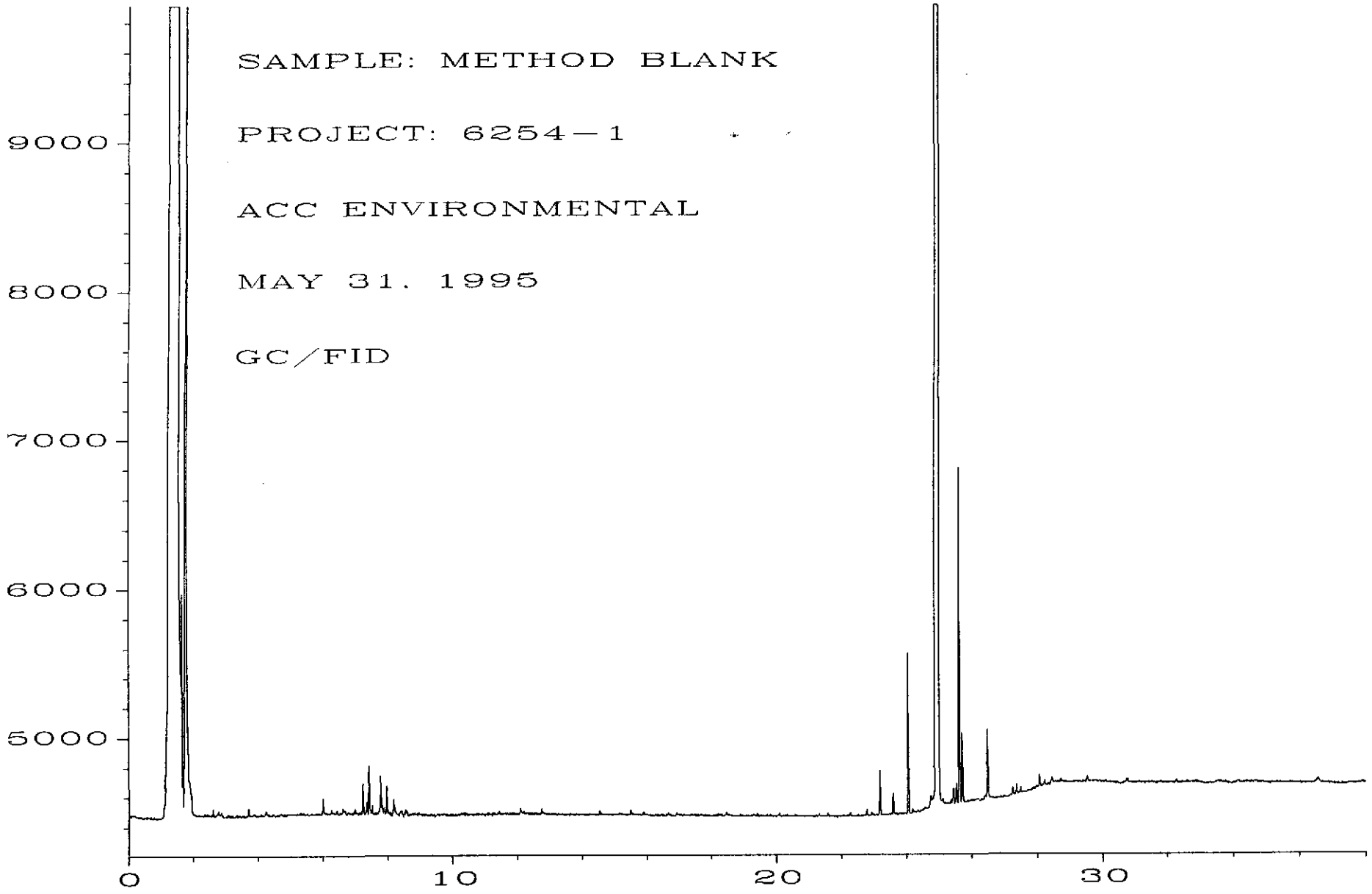
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time	Sample Integrity



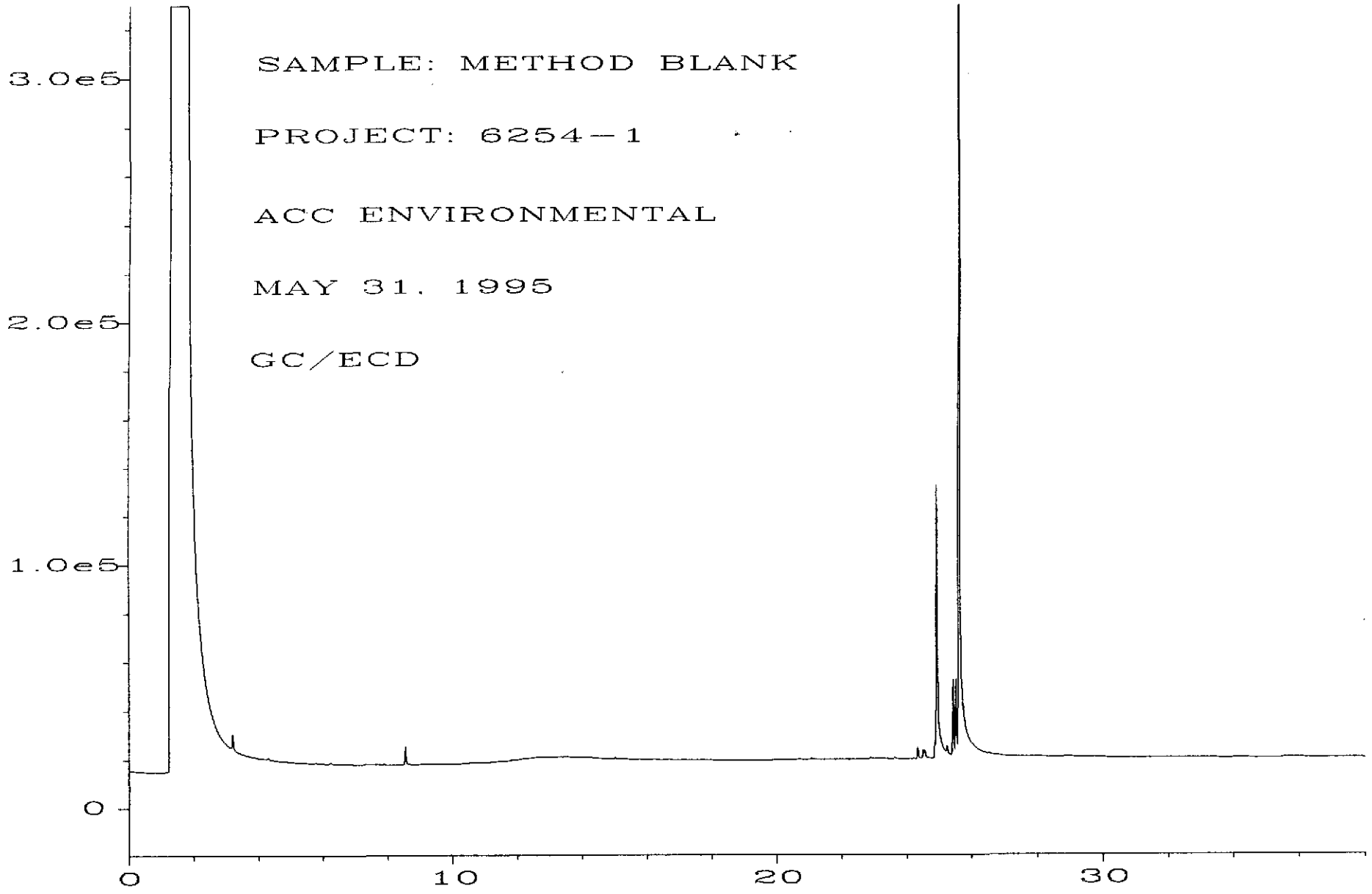
Sig. 1 in C:\HPCHEM\4\DATA\05-31-95\039F1801.D



Sig. 2 in C:\HPCHEM\4\DATA\05-31-95\039R1801.D



Sig. 1 in C:\HPCHEM\4\DATA\05-31-95\038F1801.D



Sig. 2 in C:\HPCHEM\4\DATA\05-31-95\038R1801.D

CHROMALAB, INC.

Environmental Services (SDB)

June 8, 1995 *Submission #:* 9505323

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 2703 MARTIN LUTHER KING *Project #:* 6254-1
Received: May 24, 1995

re: Ten samples for Gasoline and BTEX analysis

Matrix: SOIL
Sampled: May 23, 1995 *Analyzed:* June 6, 1995
Method: EPA 5030/M.8015/8020

RESULTS:

Sample #	Client Sample I.D.	Gasoline (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl Benzene (mg/Kg)	Total Xylenes (mg/Kg)
Run#: 6980						
89753	B1-5	63	N.D.	N.D.	0.4	0.1
89755	B2-5	260	0.6	N.D.	4.7	10.0
89757	B3-6	150	N.D.	N.D.	0.9	0.4
89758	B4-6	55	N.D.	N.D.	0.4	0.2
89759	B5-8	830	1.8	9.2	12.0	33.0
89764	B7-10	53	N.D.	N.D.	0.20	0.30
Run#: 7004						
89761	B6-5	130	N.D.	N.D.	1.0	1.1
89762	B6-10	390	0.30	N.D.	7.3	27.0
89763	B7-5	N.D.	N.D.	N.D.	N.D.	N.D.
89766	B8-10	N.D.	N.D.	N.D.	0.1	N.D.
Blank		N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Recovery		87%	87%	87%	85%	92%
Reporting Limit		20.0	0.1	0.1	0.1	0.1

ChromaLab, Inc.

Jack Kelly
Analytical Chemist

Ali Kharrazi
Organic Manager

cc

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

June 8, 1995 *Submission #:* 9505323

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 2703 MARTIN LUTHER KING *Project#:* 6254-1
Received: May 24, 1995

re: Seven samples for Gasoline and BTEX analysis

Matrix: WATER
Sampled: May 23, 1995 *Analyzed:* June 3, 1995
Method: EPA 5030/M.8015/602

RESULTS:

Sample #	Client Sample I.D.	Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)
Run#:	6950					
89756	B2-H2O	6600	340	24	160	27
89760	B5-H2O	5000000	19000	220000	110000	600000
	Note: GAS DET.LIMIT=50000µg/L,BTEX DET.LIMIT-500µg/L					
89765	B7-H2O	89000	21000	11000	3800	16000
	Note: GAS DET.LIMIT=50000µg/L,BTEX DET.LIMIT-500µg/L					
89767	B8-H2O	N.D.	N.D.	N.D.	N.D.	N.D.
	Note: GAS DET.LIMIT=250µg/L,BTEX DET.LIMIT-2.5µg/L					
89768	B9-H2O	180000	6900	240	3100	4200
	Note: GAS DET.LIMIT=5000µg/L,BTEX DET.LIMIT-50µg/L					
89769	B6-H2O	330	3.3	N.D.	5.0	17
	Note: GAS DET.LIMIT=250µg/L,BTEX DET.LIMIT-2.5µg/L					
89754	B1-H2O	300000	6700	490	11000	17000
	Note: GAS DET.LIMIT=10000µg/L,BTEX DET.LIMIT-100µg/L					
Blank		N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Recovery		83%	87%	91%	87%	92%
Reporting Limit		50	0.5	0.5	0.5	0.5

ChromaLab, Inc.

Jack Kelly
Analytical Chemist

Ali Kharrazi
Organic Manager

cc

1220 Quarry Lane • Pleasanton, California 94566-4756
(510) 484-1919 • Facsimile (510) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.
SAMPLE RECEIPT CHECKLIST

Client Name ACC

Project 2703 MLK JR WAY

Reference/Subm # 22116/9505323

Checklist completed by: Chowling 5/25/95 (Signature / Date)

Date/Time Received 5/24/95 (Date) 1520 (Time)

Received by P Monette

Carrier name

Logged in by RM 5/25/95 (Initials / Date)

Matrix SOIL / H2O

Shipping container in good condition?			NA___	Yes___ No___
Custody seals present on shipping container?	Intact___	Broken___	Yes___	No___
Custody seals on sample bottles?	Intact___	Broken___	Yes___	No___
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___
Samples intact?				Yes✓ No___
Sufficient sample volume for indicated test?				Yes✓ No___
VOA vials have zero headspace?			NA___	Yes✓ No___
Trip Blank received?			NA___	Yes___ No✓
All samples received within holding time?				Yes✓ No___

Container temperature?_____

pH upon receipt _____ pH adjusted_____ Check performed by:_____ NA✓

Any NO response must be detailed in the comments section below. If items are not applicable, they should be marked NA.

Client contacted?_____ Date contacted?_____

Person contacted?_____ Contacted by?_____

Regarding?_____

Comments: pH checked by chemist

Corrective Action:_____

SMPLRECD.CK

323/89703-89769

22116

1 of 2

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

SDG# 9505323 RCPT PH
CLIENT ACC
DUE 06/01/95
ACC #22116

Chain of Custody

DATE _____ PAGE _____ OF _____

PROJ. MGR Misty Kaltreider
COMPANY ACC Environmental
ADDRESS 1000 Atlantic Ave, Suite 110
Alameda, CA 94501

SAMPLERS (SIGNATURE) Misty Kaltreider
(PHONE NO.) (510) 522-8188
(FAX NO.) (510) 865-5731

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel, TEPH (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
B1-5	5/23/95		S			X																		1
B1-H_2O			W			X																		2
B2-5			S			X																		1
B2-H_2O			W			X																		2
B3-6			S			X																		1
B4-6			S			X																		1
B5-8 MW			S			X																		1
B5-H_2O			W			X																		2
B6-5			S			X																		1

PROJECT INFORMATION

PROJECT NAME: 2703 Martin Luther King Jr Way
PROJECT NUMBER: 6254-1
P.O. #: 6254-1

TAT: STANDARD 5-DAY | 24 | 48 | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS:

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	12
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3
(SIGNATURE) Misty Kaltreider (TIME) 1550	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) Misty Kaltreider (DATE) 5/24/95	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY) ACC Environmental	(COMPANY)	(COMPANY)
RECEIVED BY 1.	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3**
(SIGNATURE) (TIME) 15:20	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) F. MOUETTE (DATE) 5-24-95	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY) CHROMALAB	(COMPANY)	(LAB)

22116 1 OF 2

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lane • Pleasanton, California 94566-4756
510/484-1919 • Facsimile 510/484-1096

Chain of Custody

DATE _____ PAGE _____ OF _____

PROJ. MGR Misty Kolthoff
COMPANY ACC Environmental
ADDRESS 1000 Atlantic Ave Suite 110
Alameda, CA 94501

SAMPLERS (SIGNATURE) (510)522-8188 (PHONE NO.)
Misty Kolthoff (510)865-5731 (FAX NO.)

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel, TEPH (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
B6-10	5/23/95		S			X																			1
B7-5	"		S			X																			1
B7-10	"		S			X																			1
B7-H_2O	"		W			X																			2
B8-10	"		S			X																			1
B8-H_2O	"		W			X																			2
B9-H_2O	"		W			X																			2
B6-H_2O	"		W			X																			2

PROJECT INFORMATION

PROJECT NAME: 2703 MLK Way (Martin Luther King Jr. Way)
PROJECT NUMBER: 6254-1
P.O. #: 6254-1

TAT: STANDARD 5-DAY | 24 | 48 | 72 | OTHER

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	11
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3
(SIGNATURE) Misty Kolthoff 15:20 (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) Misty Kolthoff 5/24/95 (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY) ACC Environmental	(COMPANY)	(COMPANY)
RECEIVED BY 1.	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3**
(SIGNATURE) 15:20 (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) T. Moalette 5-24-95 (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY) Chromalab	(COMPANY)	(LAB)

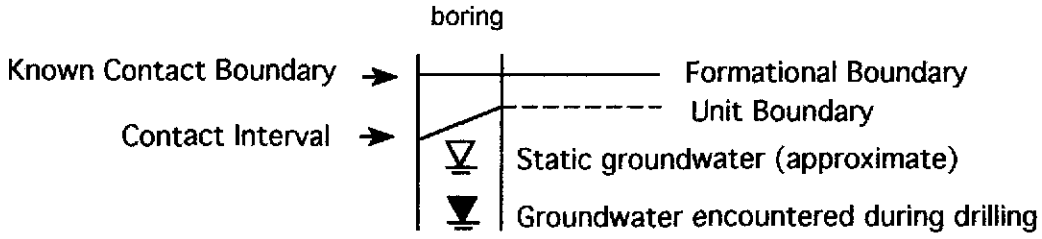
APPENDIX D

DRILLING LOGS
UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION SYSTEM

	MAJOR DIVISIONS				TYPICAL NAMES
COARSE GRAINED SOILS more than half > #200 sieve	GRAVELS more than half coarse fraction is larger than No. 4 sieve	CLEAN GRAVELS WITH LITTLE OR NO FINES	G W		well graded gravels, gravel-sand mixtures
			G P		poorly graded gravels, gravel-sand mixtures
		GRAVELS WITH OVER 12% FINES	G M		silty gravels, poorly graded gravel-sand silt mixtures
			G C		clayey gravels, poorly graded gravel-sand clay mixtures
	SANDS more than half coarse fraction is smaller than No. 4 sieve	CLEAN SANDS WITH LITTLE OR NO FINES	S W		well graded sands, gravelly sands
			S P		poorly graded sands, gravelly sands
		SANDS WITH OVER 12% FINES	S M		silty sands, poorly graded sand-silt mixtures
			S C		clayey sands, poorly graded sand-clay mixtures
FINE GRAINED SOILS more than half < #200 sieve	SILTS AND CLAYS liquid limit less than 50		M L		inorg. silts and v.fine sands, rock flour silty or clayey sands, or clayey silts w/sl. plasticity
			C L		inorg. clays of low-med plasticity, gravelly clays, sandy clays, silty clays, lean clays
			O L		organic clays and organic silty clays of low plasticity
	SILTY AND CLAYS liquid limit greater than 50		MH		inorganic silty, micaceous or diatomacious fine sandy or silty soils, elastic silts
			C H		inorganic clays of high plasticity, fat clays
			O H		organic clays of medium to high plasticity organic silts
	HIGHLY ORGANIC SOILS		Pt		peat and other highly organic soils

LEGEND FOR BORING LOGS



Date: 5/10/95	Project No. 95-6254-1	2703 Martin Luther King Jr. Way Oakland, CA

ACC Environmental Consultants, Inc. • 1000 Atlantic Avenue, Suite 110 • Alameda, CA 94501 • (510) 522-8188

Environmental Control Associates, Inc. Pneumatic Sampler.	HNu (ppm)	SAMPLE #	Sample Interval	Depth (feet)	EQUIPMENT: Pneumatic Sampler (1" O.D.) LOGGED BY: M. Kaltreider PROJECT: 2703 Martin Luther King Jr. Wy START DATE: 5/23/95
				0	Asphalt Pavement/Baserock: gravel.
Munsell Color Scale				2	Sandy Clay (CL), dark greenish gray, medium plasticity, medium stiff, moist (moderate hydrocarbon odor).
(10YR - 3/2)	30	B1-5		4	Sandy Clay (CL), as above
				6	Approx. 0.5 to 0.75" non-aqueous product on water.
(5Y - 3/2)	60	No Sample		8 ▽ ▼	Refusal at 9', possible tank hold-down slab.
				10	BOTTOM OF BORING @ 9 feet (Refusal encountered)
				12	
				14	
				16	
				18	
				20	
				22	
				24	
				26	
				28	

ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501	JOB NO: 6254-1.0 DATE: 6/24/95	**LOG OF BORING B-1** 2703 Martin Luther King Jr. Way Oakland, California

Environmental Control Associates, Inc. Pneumatic Sampler.	HNu (ppm)	SAMPLE #	Sample Interval	Depth (feet)	EQUIPMENT: Pneumatic Sampler (1" O.D.) LOGGED BY: M. Kaltreider PROJECT: 2703 Martin Luther King Jr. Wy START DATE: 5/23/95
Munsell Color Scale				0	Asphalt Pavement/Baserock: gravel.
				2	Clayey Sand (SC), Olive green mottled mottled dark green with 5-10% fines, medium dense, moist (slight hydrocarbon odor).
(10YR - 3/2)	10	B2-5		4	
(5Y - 3/2)	40	B2-7		6 ▽	Clayey Sand (SC) brown mottled greyish green with 45 to 50% fine grain sand, dense, slightly plastic, saturated, hydrocarbon odor.
				8	BOTTOM OF BORING @ 7 feet (Refusal encountered)
				10	
				12	
				14	
				16	
				18	
				20	
				22	
				24	
				26	
				28	

ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501	JOB NO: 6254-1.0 DATE: 6/24/95	**LOG OF BORING B-2** 2703 Martin Luther King Jr. Way Oakland, California

Environmental Control Associates, Inc. Pneumatic Sampler.	HNu (ppm)	SAMPLE #	Sample Interval	Depth (feet)	EQUIPMENT: Pneumatic Sampler (1" O.D.) LOGGED BY: M. Kaltreider PROJECT: 2703 Martin Luther King Jr. Wy START DATE: 5/23/95
Munsell Color Scale				0	Asphalt Pavement/Baserock: gravel.
				2	
(10YR - 3/2)	10	B3-4		4	Sandy Clay (CL), Brown mottled grey with 35% fine grain sand, stiff, very plastic, moist.
(5Y - 3/2)	40	B3-6		6	Sandy Clay (CL) dark olive green with 25% fine grain sand, plastic, stiff, moist, hydrocarbon odor.
				8	
				10	
		No Sample		12	Sandy Clay (CL), as above, no water encountered, refusal at 12 feet.
					BOTTOM OF BORING @ 12 feet
				14	
				16	
				18	
				20	
				22	
				24	
				26	
				28	

ACC ENVIRONMENTAL CONSULTANTS
1000 ATLANTIC AVEUNUE, SUITE 110
ALAMEDA, CA 94501

JOB NO: 6254-1.0

DATE: 6/24/95

LOG OF BORING B-3

2703 Martin Luther King Jr. Way
Oakland, California

Environmental Control Associates, Inc. Pneumatic Sampler.	HNu (ppm)	SAMPLE #	Sample Interval	Depth (feet)	EQUIPMENT: Pneumatic Sampler (1" O.D.) LOGGED BY: M. Kaltreider PROJECT: 2703 Martin Luther King Jr. Wy START DATE: 5/23/95
Munsell Color Scale				0	Asphalt Pavement/Baserock: gravel.
				2	Sandy Clay (CL), Greyish brown mottled reddish brown with 35% fine grain sand, stiff, plastic, moist with few roots.
(10YR - 3/2)	10	B4-4		4	
(5Y - 3/2)	50	B4-6		6	Sandy Clay (CL) greyish green mottled grey and brown with 40% fine grain sand, plastic, stiff, moist, strong hydrocarbon odor.
				8	
				10	
		No Sample		12	Sandy Clay (CL), as above, saturated refusal at 12 feet.
				14	BOTTOM OF BORING @ 12 feet No water encountered
				16	
				18	
				20	
				22	
				24	
				26	
				28	

ACC ENVIRONMENTAL CONSULTANTS
1000 ATLANTIC AVEUNUE, SUITE 110
ALAMEDA, CA 94501

JOB NO: 6254-1.0

DATE: 6/24/95

LOG OF BORING B-4

2703 Martin Luther King Jr. Way
Oakland, California

Environmental Control Associates, Inc. Pneumatic Sampler.	HNu (ppm)	SAMPLE #	Sample Interval	Depth (feet)	EQUIPMENT: Pneumatic Sampler (1" O.D.) LOGGED BY: M. Kaltreider PROJECT: 2703 Martin Luther King Jr. Wy START DATE: 5/23/95
Munsell Color Scale				0	Asphalt Pavement/Baserock: gravel.
				2	Sandy Clay (CL), dark greenish grey mottled brown with 15% fine grain sand, stiff, very plastic, moist, slight hydrocarbon odor.
(10YR - 3/2)	10	B5-5		4	
				6	Sandy Clay (CL) brown mottled dark olive grey with 25% very fine grain sand, slightly plastic, stiff, moist, hydrocarbon odor.
(5Y - 3/2)	50	B5-7		8	
				10	
				12	Approximately 0.25-0.5" non-aqueous product on water.
		No Sample		14	Sandy Clay (CL), as above, saturated.
				16	BOTTOM OF BORING @ 15 feet
				18	
				20	
				22	
				24	
				26	
				28	

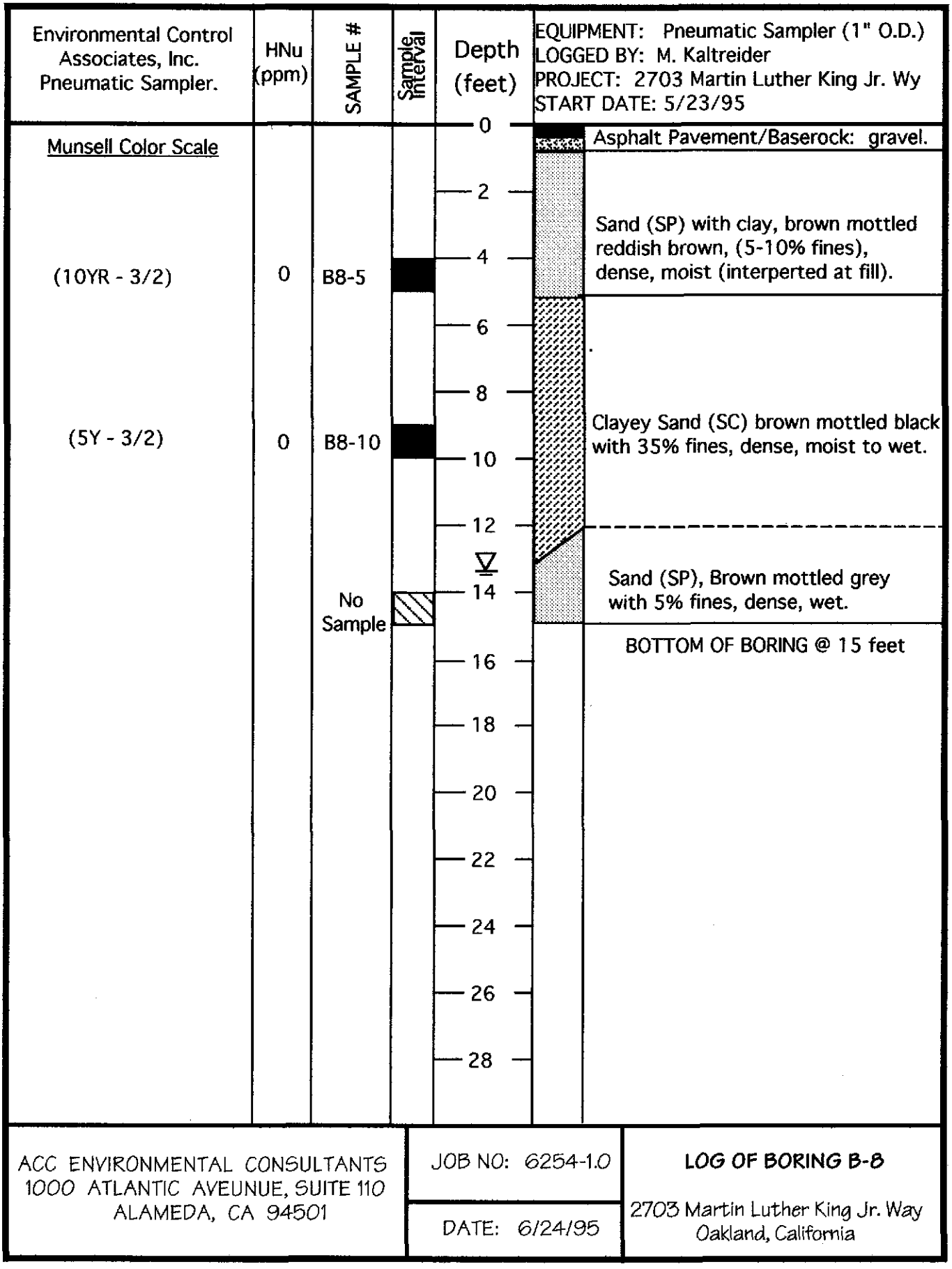
ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501	JOB NO: 6254-1.0 DATE: 6/24/95	**LOG OF BORING B-5** 2703 Martin Luther King Jr. Way Oakland, California

Environmental Control Associates, Inc. Pneumatic Sampler.	HNu (ppm)	SAMPLE #	Sample Interval	Depth (feet)	EQUIPMENT: Pneumatic Sampler (1" O.D.) LOGGED BY: M. Kaltreider PROJECT: 2703 Martin Luther King Jr. Wy START DATE: 5/23/95
Munsell Color Scale				0	Asphalt Pavement/Baserock: gravel.
				2	Clayey Sand (SC), olive grey mottled reddish brown with 65% fine grain sand, dense, moist, strong hydrocarbon odor.
(10YR - 3/2)	100	B6-5		4	
				6	
				8	Clayey Sand (SC) brown mottled dark grey with 70% fine grain sand, dense, very moist, strong hydrocarbon odor.
(5Y - 3/2)	500	B6-10		10 ▽	
				12	Approximately 1-2" non-aqueous product on water.
		No Sample		14	Clayey Sand (SC), Brown mottled grey with 80% fine grain sand, dense, wet, strong hydrocarbon odor
				16	BOTTOM OF BORING @ 15 feet
				18	
				20	
				22	
				24	
				26	
				28	

ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501	JOB NO: 6254-1.0 DATE: 6/24/95	**LOG OF BORING B-6** 2703 Martin Luther King Jr. Way Oakland, California

Environmental Control Associates, Inc. Pneumatic Sampler.	HNu (ppm)	SAMPLE #	Sample Interval	Depth (feet)	EQUIPMENT: Pneumatic Sampler (1" O.D.) LOGGED BY: M. Kaltreider PROJECT: 2703 Martin Luther King Jr. Wy START DATE: 5/23/95
Munsell Color Scale				0	Asphalt Pavement/Baserock: gravel.
				2	
(10YR - 3/2)	0	B7-5		4	Sand (SP) with clay, dark greyish green (5-10% fines), dense, moist.
				6	
				8	
(5Y - 3/2)	20	B7-10		▽ 10	Sand (SP) brown mottled grey with 10% fines, dense, moist to wet.
				12	
		No Sample		▼ 14	Sand (SP), Brown mottled grey with 5% fines, dense, wet.
				16	BOTTOM OF BORING @ 15 feet
				18	
				20	
				22	
				24	
				26	
				28	

ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501	JOB NO: 6254-1.0 DATE: 6/24/95	**LOG OF BORING B-7** 2703 Martin Luther King Jr. Way Oakland, California


Environmental Control Associates, Inc. Pneumatic Sampler.
HNu (ppm)
SAMPLE #
Sample Interval
Depth (feet)
EQUIPMENT: Pneumatic Sampler (1" O.D.)
LOGGED BY: M. Kaltreider
PROJECT: 2703 Martin Luther King Jr. Wy
START DATE: 5/23/95
Munsell Color Scale
(10YR - 3/2)
0
B8-5
(5Y - 3/2)
0
B8-10
No Sample
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
Asphalt Pavement/Baserock: gravel.
Sand (SP) with clay, brown mottled reddish brown, (5-10% fines), dense, moist (interperted at fill).
Clayey Sand (SC) brown mottled black with 35% fines, dense, moist to wet.
Sand (SP), Brown mottled grey with 5% fines, dense, wet.
BOTTOM OF BORING @ 15 feet
ACC ENVIRONMENTAL CONSULTANTS
1000 ATLANTIC AVEUNUE, SUITE 110
ALAMEDA, CA 94501
JOB NO: 6254-1.0
DATE: 6/24/95
LOG OF BORING B-8
2703 Martin Luther King Jr. Way
Oakland, California