



SoundEarth Strategies, Inc.
2811 Fairview Avenue East, Suite 2000
Seattle, Washington 98102

August 29, 2011

Mr. Sam Farrazaino
Equinox Development Unlimited, LLC
6545 Fifth Avenue South
Seattle, Washington 98108

SUBJECT: SUMMARY OF SUBSURFACE INVESTIGATION ACTIVITIES
Former Mastermark Printing Property – DRPH in Soil
6545 Fifth Avenue South
Seattle, Washington
SoundEarth Project Number 0761-001

Dear Mr. Farrazaino:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this summary letter to document the results of recent investigation activities at the Former Mastermark Printing Property, a rectangular-shaped parcel located at 6545 Fifth Avenue South in Seattle, Washington (hereinafter referred to as the Property). The Property location is shown on Figure 1. Based on a review of historical information, it appears that the Property was undeveloped until 1941, when the existing single-story commercial building originally occupied by Sulak Manufacturing Co., a machine shop, was constructed. Additions to the original building were constructed in 1945 and 1952. Mastermark Printing operated at the Property from 1970 to approximately 2000.

BACKGROUND

The results of a previous subsurface investigation performed by SoundEarth in August 2010 and reported in the *Summary of Findings-Subsurface Investigation* confirmed the presence of diesel-range petroleum hydrocarbons (DRPH) in soil in push-probe P05 boring in the Fifth Avenue right-of-way (ROW) near the northeast corner of the Property. The elevated concentration of DRPH in soil indicated an area of contamination that was likely limited in extent.

DRPH was not detected in groundwater sampled from the boring advanced in the ROW in August 2010 (boring P05). In addition, the distance between the depth of the contamination and the ground surface (7 feet) and the overlying right-of-way (Fifth Avenue South) provide a measure of protection against direct contact; therefore, the DRPH contamination in its current state does not appear to represent an immediate risk to human health or the environment.

The scope of work summarized in the following sections included advancing an additional eight borings in the vicinity of P05 to evaluate whether the Property was impacted by the release and to further evaluate the extent of DRPH impacts in soil.

SUBSURFACE INVESTIGATION

The following subsections describe the field activities conducted to meet the objective of the subsurface investigation conducted by SoundEarth in April 2011.

Field Program

The scope of work associated with the subsurface investigation included the following:

- Preparing a health and safety plan in accordance with the Washington State Model Toxics Control Act (MTCA) and Part 1910.120 of Title 29 of the Code of Federal Regulations prior to initiating field activities.
- Performing a utility locate at the proposed boring locations using a private utility location service and contacting the One-Call Center for utility location.
- Advancing eight soil borings (P06 through P13) near the northeast corner of the Property to further evaluate the source and extent of DRPH impacts in soil.
- Collecting three soil samples from each boring for laboratory analysis for DRPH and oil-range petroleum hydrocarbons (ORPH) by Northwest Total Petroleum Hydrocarbon Method NWTPH-Dx.
- Preparing this report.

A detailed description of the subsurface investigation activities is provided in the following subsections.

Field Activities

The activities conducted as part of this investigation were performed on April 5, 2011. Drilling activities were conducted under the supervision of a SoundEarth geologist. Prior to investigation activities, a private utility location survey was conducted by Underground Detection Services of Seattle, Washington. Drilling services were provided by Environmental Services Network Northwest of Olympia, Washington.

Soil Sample Collection

To further evaluate the lateral and vertical extent of DRPH contamination in soil near the northeast corner of the Property, eight soil borings (P06 through P13) were advanced to a maximum depth of 12 feet bgs (Figure 2). The borings were advanced near the northeastern corner of the Property, surrounding boring P05, where DRPH contamination was initially confirmed in soil.

The soil borings were advanced using a limited-access, direct-push probe drill rig. Each boring was sampled at approximately 4-foot intervals from ground surface to the total depth explored of 12 feet bgs. After the maximum depth was achieved in each sample interval, relatively undisturbed, discrete soil samples were collected. The soil was classified using the Unified Soil Classification System. Soil characteristics, including moisture content, relative density, texture, and color were recorded on the boring logs, which are provided as Attachment A. The depths at which changes in soil lithology were observed and where groundwater was first encountered are also included on the boring logs. Selected portions of recovered soil core samples were placed in a plastic bag so the presence or absence of volatile organic compounds could be quantified using a photoionization detector (PID).

Soil samples were placed into labeled laboratory-prepared glassware, placed on ice in a cooler, and delivered to Friedman & Bruya, Inc., of Seattle, Washington, under standard chain-of-custody protocols for laboratory analysis. All of the collected soil samples were submitted for laboratory analysis of DRPH and ORPH by Northwest Total Petroleum Hydrocarbon Method NWTPH-Dx.

All non-dedicated field sampling equipment was cleaned and decontaminated between uses and prior to leaving the Property. Soil cuttings and decontamination wash water were contained on the Property in labeled 55-gallon drums pending waste profiling and proper disposal.

RESULTS

The following sections summarize the results of the investigation conducted at the Site in April 2011. The analytical results for the soil samples collected during this investigation, along with the previous investigation in August 2010, are presented in Table 1. The laboratory analytical report for the soil samples is included as Attachment B.

Subsurface Conditions

Soil encountered during drilling activities generally consisted of an upper 6 to 7 feet of fine to medium sand (fill material), overlying silty sand to the maximum explored depth of 12 feet bgs. Elevated PID readings and hydrocarbon odors were observed in soil samples obtained from borings P10 (strong hydrocarbon odor at 7 feet bgs and moderate hydrocarbon odor at 8 feet bgs), P11 (moderate hydrocarbon odor at 7 feet bgs), P12 (slight hydrocarbon odor at 6 feet bgs), and P13 (slight hydrocarbon odor at 6 feet bgs). No hydrocarbon odors or elevated PID readings were observed for the soil samples recovered from borings P06, P07, P08, or P09.

Groundwater was encountered at depths ranging from approximately 6 to 7.5 feet bgs during drilling.

Soil

Soil analytical results for samples obtained from borings P06 through P013 on April 5, 2011, are presented on Figure 2 and in Table 1 and are summarized below:

- The concentration of DRPH in the soil sample collected from boring P10 at a depth of 7 feet bgs (3,000 milligrams per kilogram [mg/kg]) exceeded the MTCA Method A cleanup level for unrestricted land use of 2,000 mg/kg. Boring P10 was advanced within the ROW adjacent to former boring P05.
- Concentrations of DRPH below the MTCA Method A cleanup level were reported in the soil samples collected from boring P12 at 6 feet bgs (160 mg/kg) and from boring P13 at 6 feet bgs (1,600 mg/kg). Both P12 and P13 are located on the Property.
- A low concentration of ORPH (530 mg/kg) was reported in the soil sample collected from boring P08 at a depth of 11 feet bgs, which is below the MTCA Method A cleanup level of 2,000 mg/kg.
- DRPH and ORPH were not detected above the laboratory reporting limits in the remaining soil samples.

The concentrations of DRPH reported in analyzed soil samples were evaluated in accordance with the 1992 Washington State Department of Ecology (Ecology) document *Statistical Guidance for Ecology Site*

Managers and Ecology's 2010 Guidance for Remediation of Petroleum Contaminated Sites. As detailed in the guidance documents, confirming whether the cleanup levels are achieved can be based on a comparison of the 95th percent upper confidence limit on the mean (UCL₉₅) with the defined cleanup level.

The data developed to date was tested for conformance with distributional assumptions (normal versus lognormal), and the UCL₉₅ was calculated based on the methods described in Ecology's 1992 and 2010 guidance documents (Attachment C).

Review of the statistical analysis and laboratory data indicates that concentrations of DRPH in soil in the ROW are compliant with MTCA for the following reasons:

- The calculated UCL₉₅ value of 753.7 mg/kg is below the MTCA Method A cleanup level of 2,000 mg/kg for DRPH in soil.
- Less than 10 percent of the soil samples had reported DRPH concentrations exceeding the MTCA Method A Cleanup level.
- No single soil sample had a reported DRPH concentration of more than two times the MTCA Method A cleanup level.

Data Quality Review

SoundEarth reviewed laboratory quality control data provided with the Friedman & Bruya, Inc., reports to evaluate the usability of the analytical results. The analytical results for all soil samples are considered to be usable for the purposes intended. A copy of the laboratory analytical report is provided as Attachment B.

CONCLUSION

The results of the subsurface investigation indicate that a possible spill in the ROW may have resulted in a release of DRPH to soil in the ROW. Based on the findings of the subsurface investigation, the extent of the DRPH-impacted soil appears to be limited to the ROW at a depth of 7 feet bgs.

The concentrations of DRPH reported in analyzed soil samples were statistically evaluated in accordance with Ecology's 1992 and 2010 guidance documents; based on the results of the analysis, the concentrations of DRPH beneath the ROW are compliant with MTCA.

In addition, DRPH contamination in soil is located beyond the Property boundary and below the conditional point of compliance of 6 feet bgs (WAC 173-340-7490[4][a]), the impacted soil is capped by Fifth Avenue South, and groundwater is not affected by the release. Therefore, no additional action is warranted on behalf of the Property owner.

LIMITATIONS

The findings and conclusions documented in this report have been prepared for the specific application to this project and have been developed in a manner consistent with that level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in the area. Sampling was conducted at widely spaced boring locations and depths, and a

potential always remains for unknown, unidentified, or unforeseen subsurface contamination to exist on portions of the Property that were not accessed in the course of this investigation. No warranty, expressed or implied, is made. This report is intended for the exclusive use of Equinox Development Unlimited, LLC.

CLOSING

SoundEarth appreciates the opportunity to work with you on this project. Please contact the undersigned at (206) 306-1900 if you have any questions or require additional information.

Respectfully,
SoundEarth Strategies, Inc.



Chris G. Cass, LG
Project Geologist



Erin K. Rothman, MS
Senior Scientist

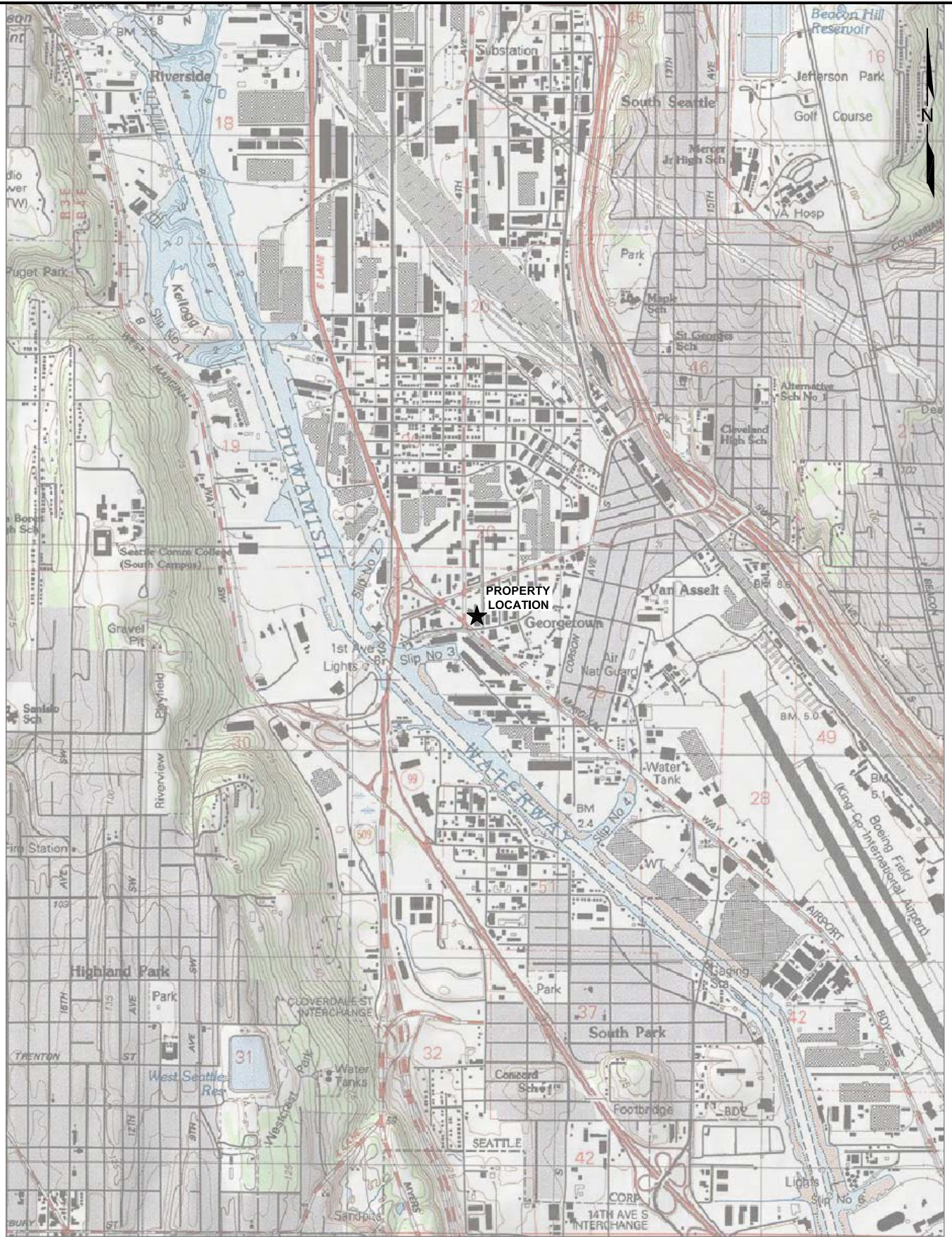
John R. Funderburk, MSPH
Principal

- Attachments: Figure 1, Property Location Map
Figure 2, Soil Analytical Results for Diesel and Heavy Oil
Table 1, Summary of Soil Analytical Results
Attachment A, Boring Logs
Attachment B, Laboratory Analytical Report
Friedman & Bruya, Inc. # 104047
Attachment C, UCL Statistical Analysis

CGC/EKR:syh

FIGURES

P:\0761 EQUINOX DEVELOPMENT UNLIMITED\0761-001 FORMER MASTERMARK PRINTING\TECHNICAL\CAD\2011Q1\0761-001_FIG 1_F.DWG



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APPROXIMATE SCALE: 1:24,000

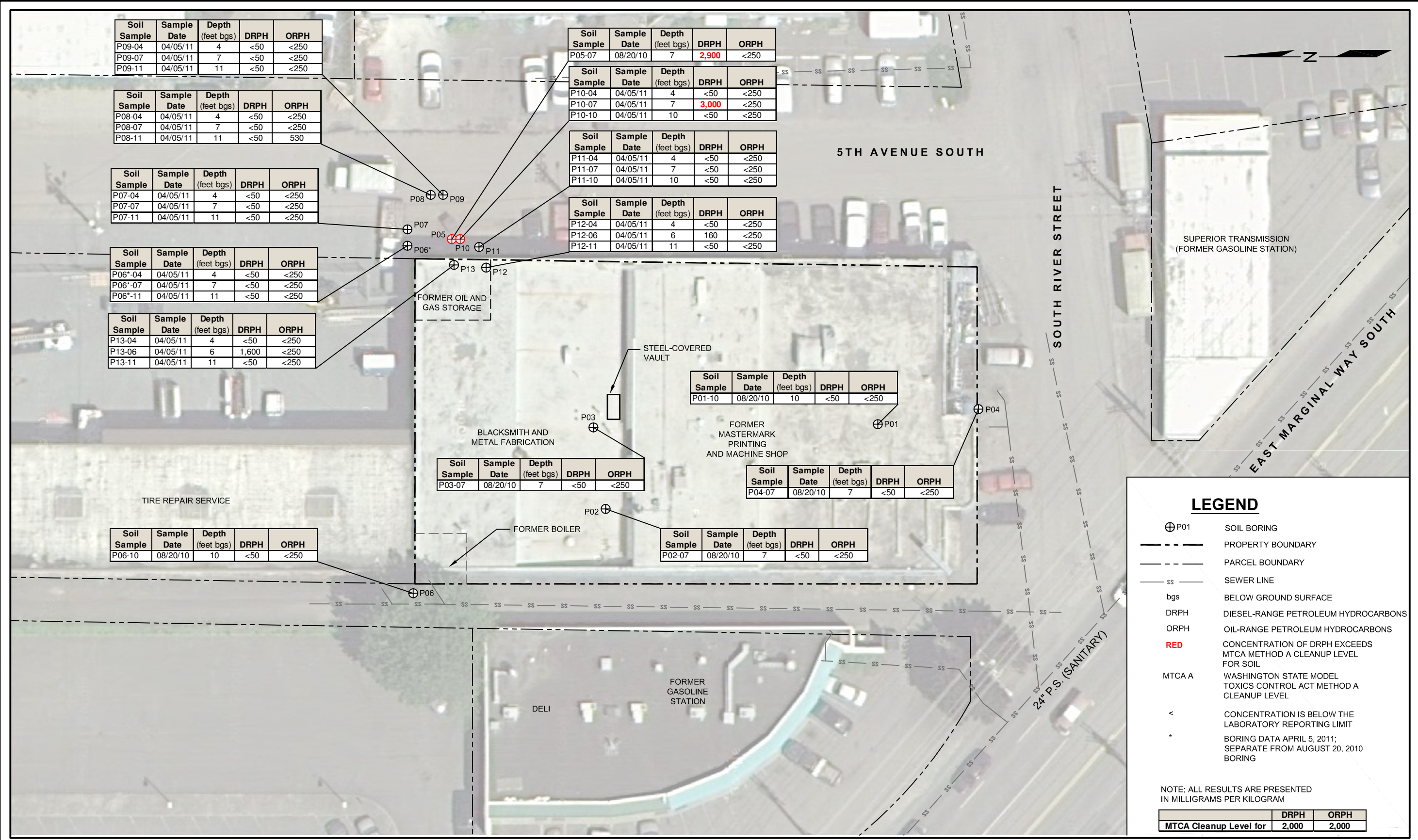


DATE: _____ 04/29/11
 DRAWN BY: _____ V. BACHMANN
 CHECKED BY: _____ E. ROTHMAN
 CAD FILE: _____ 0761-001_FIG 1

PROJECT NAME: _____ FORMER MASTERMARK PRINTING
 PROJECT NUMBER: _____ 0761-001
 STREET ADDRESS: _____ 6545 5TH AVENUE SOUTH
 CITY, STATE: _____ SEATTLE, WASHINGTON

FIGURE 1
 PROPERTY LOCATION MAP

5/23/2011
P:\0761 EQUINOX DEVELOPMENT UNLIMITED\0761-001 FORMER MASTERMARK PRINTING\TECHNICAL\CAD\2011\0761-001-03_2011Q1_SD_F.DWG



LEGEND

- ⊕ P01 SOIL BORING
- PROPERTY BOUNDARY
- - - PARCEL BOUNDARY
- SS --- SEWER LINE
- bgs BELOW GROUND SURFACE
- DRPH DIESEL-RANGE PETROLEUM HYDROCARBONS
- ORPH OIL-RANGE PETROLEUM HYDROCARBONS
- RED CONCENTRATION OF DRPH EXCEEDS MTCA METHOD A CLEANUP LEVEL FOR SOIL
- MTCA A WASHINGTON STATE MODEL TOXICS CONTROL ACT METHOD A CLEANUP LEVEL
- < CONCENTRATION IS BELOW THE LABORATORY REPORTING LIMIT
- * BORING DATA APRIL 5, 2011; SEPARATE FROM AUGUST 20, 2010 BORING

NOTE: ALL RESULTS ARE PRESENTED IN MILLIGRAMS PER KILOGRAM

MTCA Cleanup Level for	DRPH	ORPH
	2,000	2,000



DATE: 04/29/11
 DRAWN BY: VPB/JQC
 CHECKED BY: CGC
 CAD FILE: 0761-001_2011Q1_SD

PROJECT NAME: FORMER MASTERMARK PRINTING
 PROJECT NUMBER: 0761-001
 STREET ADDRESS: 6545 5TH AVENUE SOUTH
 CITY, STATE: SEATTLE, WASHINGTON

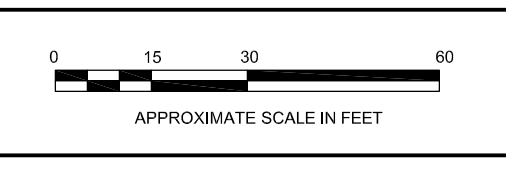
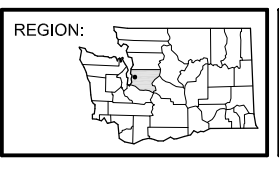


FIGURE 2
 SOIL ANALYTICAL RESULTS FOR DIESEL AND HEAVY OIL

SOURCE: MTCA

TABLE



Table 1
Summary of Soil Analytical Results
Former Mastermark Printing
6545 Fifth Avenue South
Seattle, Washington

Boring ID	Soil Sample ID	Date Sampled	Depth (feet bgs)	Analytical Results (mg/kg)	
				DRPH	ORPH
P01	P01-10	08/20/10	10	<50	<250
P02	P02-07	08/20/10	7	<50	<250
P03	P03-07	08/20/10	7	<50	<250
P04	P04-07	08/20/10	7	<50	<250
P05	P05-07	08/20/10	7	2,900	<250
P06	P06-10	08/20/10	10	<50	<250
P06*	P06-04	04/05/11	4	<50	<250
P06*	P06-07	04/05/11	7	<50	<250
P06*	P06-11	04/05/11	11	<50	<250
P07	P07-04	04/05/11	4	<50	<250
P07	P07-07	04/05/11	7	<50	<250
P07	P07-11	04/05/11	11	<50	<250
P08	P08-04	04/05/11	4	<50	<250
P08	P08-07	04/05/11	7	<50	<250
P08	P08-11	04/05/11	11	<50	530
P09	P09-04	04/05/11	4	<50	<250
P09	P09-07	04/05/11	7	<50	<250
P09	P09-11	04/05/11	11	<50	<250
P10	P10-04	04/05/11	4	<50	<250
P10	P10-07	04/05/11	7	3,000	<250
P10	P10-10	04/05/11	10	<50	<250
P11	P11-04	04/05/11	4	<50	<250
P11	P11-07	04/05/11	7	<50	<250
P11	P11-10	04/05/11	10	<50	<250
P12	P12-04	04/05/11	4	<50	<250
P12	P12-06	04/05/11	6	160	<250
P12	P12-11	04/05/11	11	<50	<250
P13	P13-04	04/05/11	4	<50	<250
P13	P13-06	04/05/11	6	1,600	<250
P13	P13-11	04/05/11	11	<50	<250
MTCA Method A Soil Cleanup Levels¹				2,000	2,000

NOTES:

Samples analyzed by Friedman & Bruya, Inc. of Seattle, Washington.

Red denotes concentration in excess of MTCA Method A Cleanup Level for Soil.

Analyzed by NWTPH-HCID and/or NWTPH-Dx.

* Separate boring from P06 drilled on 08/20/10.

¹MTCA Method A Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, revised November 2007.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

DRPH = diesel-range petroleum hydrocarbons

mg/kg = milligrams per kilogram

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbon

ORPH = oil-range petroleum hydrocarbons

**ATTACHMENT A
BORING LOGS**

Log of Exploratory Boring:

Notes
Sampler Type Split Spoon

Drilling Co./Driller:	ESN / Nole
Drilling Method:	LAR DIRECT PUSH
Location:	Inside warehouse former prining and machine shop south and central location.
Surface Condition:	Concrete
Total Depth:	10
First GW Depth:	10

Moisture Content:

Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Water Levels

▼ After Completion
▽ During Drilling

Hydrocarbon Odor:

NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	Concrete 1" thick		
1	1.5	100					SP	Damp, loose, fine to medium SAND, brown. No hydrocarbon odor. Fill material.		
2										
3	1.5	50			P01-04		ML	Damp, loose, SILT with trace fine sand, brown. No hydrocarbon odor. Fill material.		
4										
5	1.8	50					ML	Moist, loose, SILT with trace fine sand, brown. No hydrocarbon odor. Fill material.		
6										
7	1.4	50					SM	Moist, loose silty SAND, dark brown. No hydrocarbon odor. Fill material.		
8										
9	1.4	50					SP	Wet, loose, medium to fine SAND, black. No hydrocarbon odor. Native material.	▽	
10	0.0				P01-10					
11								Temporary screen 7' to 10' bgs. Boring backfilled with bentonite and finished with concrete at ground surface.		
12										
13										
14										
15										



6545 5th Avenue South
Former Mastermark Property
Seattle, Washington

Date Started: 8/20/2010
Date Finished: 8/20/2010
Logged By: RAH
Chk By: EKR
SES Project No.: 0761-001-01

BORING LOG
P01

Log of Exploratory Boring:

Drilling Co./Driller:	ESN / Nole
Drilling Method:	LAR DIRECT PUSH
Location:	Inside warehouse metal fabrication shop south western location
Surface Condition:	Concrete 3 inch thick
Total Depth:	12
First GW Depth:	7.5

Notes
Sampler Type Split Spoon

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
 ▼ After Completion
 ▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	Concrete 3" thick.		
1								Damp, loose, fine to medium SAND, brown. No hydrocarbon odor. Fill material.		
2		0.0	100							
3							SP			
4					P02-04					
5										
6		0.0	100				SM	Moist, loose, silty SAND, dark brown. No hydrocarbon odor. Fill material.		
7		0.0			P02-07					
8								Wet, loose, silty SAND, dark brown. No hydrocarbon odor. Native material.	▽	
9										
10		0.0	100				SM			
11		0.0			P02-11					
12										
13								Temporary screen 7' to 11' bgs. Boring backfilled with bentonite and finished with concrete at ground surface.		
14										
15										



6545 5th Avenue South
Former Mastermark Property
Seattle, Washington

Date Started: 8/20/2010
Date Finished: 8/20/2010
Logged By: RAH
Chk By: EKR
SES Project No.: 0761-001-01

BORING LOG
P02

Log of Exploratory Boring:

Notes
Sampler Type Split Spoon

Drilling Co./Driller:	ESN / Nole
Drilling Method:	LAR DIRECT PUSH
Location:	Inside warehouse metal fabrication shop west of steel covered vault
Surface Condition:	Concrete
Total Depth:	10
First GW Depth:	7

Moisture Content:

Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Water Levels

▼ After Completion
▽ During Drilling

Hydrocarbon Odor:

NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	Concrete		
1								Damp, loose, fine to medium SAND, brown. No hydrocarbon odor. Fill material.		
2		0.0								
3							SP			
4					P03-04					
5										
6		0.0					SM	Moist, loose, silty SAND, dark brown. No hydrocarbon odor. Fill material.		
7		0.0			P03-07				▽	
8							SP	Wet, loose, medium fo fine SAND, brown. No hydrocarbon odor. Native material.		
9		0.0								
10										
11								Temporary screen 6' to 10' bgs. Boring backfilled with bentonite and finished with concrete at ground surface.		
12										
13										
14										
15										



6545 5th Avenue South
Former Mastermark Property
Seattle, Washington

Date Started: 8/20/2010
Date Finished: 8/20/2010
Logged By: RAH
Chk By: EKR
SES Project No.: 0761-001-01

BORING LOG
P03

Log of Exploratory Boring:

Notes
Sampler Type Split Spoon

Drilling Co./Driller:	ESN / Nole
Drilling Method:	LAR DIRECT PUSH
Location:	5.5 feet south of roof drain.
Surface Condition:	Gravel
Total Depth:	11
First GW Depth:	7.5

Moisture Content:

Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Water Levels

▼ After Completion
▽ During Drilling

Hydrocarbon Odor:

NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								Damp, loose, fine to medium SAND, brown. No hydrocarbon odor. Fill material.		
1							SP			
2		0.0								
3										
4					P04-04		ML	Damp, loose, SILT with trace fine sand, light brown. No hydrocarbon odor. Fill material.		
5							SP	Damp, loose, fine to medium SAND, brown. No hydrocarbon odor. Fill material.		
6		0.0								
7		0.0			P04-07			Moist, loose, silty SAND, brown. NO hydrocarbon odor. Native material.		▽
8							SM			
9		0.0								
10										
11		0.0			P04-11					
12								Temporary screen 7' to 11' bgs. Boring backfilled with bentonite and finished with concrete at ground surface.		
13										
14										
15										



6545 5th Avenue South
Former Mastermark Property
Seattle, Washington

Date Started: 8/20/2010
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Logged By: RAH
Chk By: EKR
SES Project No.: 0761-001-01

BORING LOG
P04

Log of Exploratory Boring:

Drilling Co./Driller:	ESN / Nole
Drilling Method:	LAR DIRECT PUSH
Location:	6 feet east and 8 feet south of northeast corner of the warehouse
Surface Condition:	Gravel/ Soil
Total Depth:	12
First GW Depth:	7.5

Notes
Sampler Type Split Spoon

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
 ▼ After Completion
 ▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
1										
2		3.3	100		P05-03		SP	Damp, dense, fine to medium SAND with brick fragments, dark brown. No hydrocarbon odor. Fill material.		
3		3.3								
4										
5										
6		0.5	100		P05-07		ML	Moist, dense, SILT with trace fine sand, dark grey. Moderate hydrocarbon odor. Hydrocarbon sheen on soil at 7' bgs. Fill material.		
7		75.8					ML	Moist, dense, SILT with trace fine sand, dark grey. Moderate hydrocarbon odor. Fill material.	▽	
8										
9										
10		8.2	100				SM	Wet, dense, silty SAND, dark grey. No hydrocarbon odor. Native material.		
11										
12		4.7			P05-12					
13								Temporary screen 7' to 11' bgs. Boring backfilled with bentonite and finished with concrete at ground surface.		
14										
15										



6545 5th Avenue South
Former Mastermark Property
Seattle, Washington

Date Started: 8/20/2010
Date Finished: 8/20/2010
Logged By: RAH
Chk By: EKR
SES Project No.: 0761-001-01

BORING LOG
P05

Log of Exploratory Boring:

Drilling Co./Driller:	ESN / Nole
Drilling Method:	LAR DIRECT PUSH
Location:	4 feet west of southwest corner of the warehouse
Surface Condition:	Asphlt
Total Depth:	12
First GW Depth:	10

Notes
Sampler Type Split Spoon

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
 ▼ After Completion
 ▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							FILL	Asphalt 3" thick.		
1								Damp, fine to medium SAND with brick fragments, brown. No hydrocarbon odor. Fill material.		
2		0.0								
3										
4					P06-04		SP			
5										
6		0.0								
7										
8										
9										
10		0.0			P06-10		SP	Moist, loose, fine to medium SAND, brown. No hydrocarbon odor. Native material.	▽	
11										
12		0.0			P06-12		SM	Wet, loose, silty SAND, gray brown. No hydrocarbon odor. Native material.		
13								Temporary screen 8' to 12' bgs. Boring backfilled with bentonite and finished with concrete at ground surface.		
14										
15										



6545 5th Avenue South
Former Mastermark Property
Seattle, Washington

Date Started: 8/20/2010
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Chk By: EKR
SES Project No.: 0761-001-01

BORING LOG
P06
Page 1 of 1



Project: Former Mastermark Printer
Project Number: 0761-001-02
Logged by: R. Honsberger
Date Started: 4/5/2011
Surface Conditions: Gravel
Well Location N/S: 2.5' N of NE corner of building
Well Location E/W: 4' E of NE corner of building
Reviewed by: EKR
Date Completed: 4/5/2011

BORING LOG | **P06**
 --

Site Address: 6545 5th Avenue South
 Seattle, WA

Water Depth At Time of Drilling: 7 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0				0.4		SP (FILL)		Gravel (1 inch).	
			100					Damp, loose, fine SAND, with sandy silt and subangular gravel and brick fragments, brown, no hydrocarbon odor (FILL).	
				0.2	P06-04	SP (FILL)		Damp, loose, fine to medium SAND, dark brown, no hydrocarbon odor.	
5				0.8					
			100						
				0.7	P06-07	SM		Wet, loose, silty fine SAND, light brown, no hydrocarbon odor.	
				0.9		SM		Wet, loose, silty fine SAND, light brown, no hydrocarbon odor.	
10									
			100		P06-11			Moist, loose, silty SAND, dark brown, no hydrocarbon odor.	
				0.9					
								Boring completed at 12 feet below ground surface (bgs). Backfilled with bentonite and capped with cold patch.	
15									

Drilling Co./Driller: ESN/Marty
Drilling Equipment: LAR Probe
Sampler Type: Push Probe
Hammer Type/Weight: -- lbs
Total Boring Depth: 12 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: -- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Cold Patch
Annular Seal: Bentonite backfill
Monument Type: --

Notes/Comments:



Project: Former Mastermark Printer
Project Number: 0761-001-02
Logged by: R. Honsberger
Date Started: 4/5/2011
Surface Conditions: Gravel
Well Location N/S: 2.5' N of NE corner of building
Well Location E/W: 9' E of NE corner of building
Reviewed by: EKR
Date Completed: 4/5/2011

BORING LOG | **P07**
 --

Site Address: 6545 5th Avenue South
 Seattle, WA

Water Depth At Time of Drilling: 7.5 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0				0.1		SP (FILL)		Damp, loose, fine to medium SAND, with silt and subangular gravel, brown to dark brown, no hydrocarbon odor (FILL).	
			100	0.4	P07-04	SP (FILL)		Damp, loose, fine to medium SAND, dark brown, no hydrocarbon odor (FILL).	
5			100	0.4	P07-07	SP-SM (FILL)		Moist, loose, fine to medium SAND with silt, dark brown, no hydrocarbon odor (FILL).	
				0.4		SM		Wet, loose, silty SAND, with reeds, dark brown, no hydrocarbon odor.	
				0.4		SM		Wet, loose, silty SAND with reeds, dark brown, no hydrocarbon odor.	
10			100	0.4	P07-11			Moist, silty SAND with wood, dark brown, no hydrocarbon odor.	
15								Boring completed at 12 feet below ground surface (bgs). Backfilled with bentonite and capped with cold patch.	

Drilling Co./Driller: ESN/Marty
Drilling Equipment: LAR Probe
Sampler Type: --
Hammer Type/Weight: - lbs
Total Boring Depth: 12 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: -

Well/Auger Diameter: -- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Cold Patch
Annular Seal: Bentonite backfill
Monument Type: --

Notes/Comments:



Project: Former Mastermark Printer
Project Number: 0761-001-02
Logged by: R. Honsberger
Date Started: 4/5/2011
Surface Conditions: Asphalt
Well Location N/S: 5' S of NE corner of building
Well Location E/W: 20' E of NE corner of building
Reviewed by: EKR
Date Completed: 4/5/2011

BORING LOG | **P08**
 --

Site Address: 6545 5th Avenue South
 Seattle, WA

Water Depth At Time of Drilling: 7 feet bgs
 Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						SP (FILL)		Damp, dense, fine to medium SAND with silt and subangular gravel, light brown, no hydrocarbon odor (FILL).	
0.3			100		P08-04			Damp, loose, fine to medium SAND, dark brown, no hydrocarbon odor.	
0.2						SP (FILL)		Moist, loose, fine to medium SAND, dark brown, no hydrocarbon odor.	
0.1			100		P08-07	SM		Wet, loose, silty fine SAND, light gray to dark brown, no hydrocarbon odor.	
0.0						SM		Wet, loose, silty fine SAND, gray to dark brown, no hydrocarbon odor.	
0.1									
10			100		P08-11				
0.1									
15								Boring completed at 12 feet below ground surface (bgs). Backfilled with bentonite and capped with cold patch.	

Drilling Co./Driller: ESN/Marty
Drilling Equipment: LAR Probe
Sampler Type: Push Probe
Hammer Type/Weight: -- lbs
Total Boring Depth: 12 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: -

Well/Auger Diameter: -- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Cold Patch
Annular Seal: --
Monument Type: --

Notes/Comments:



Project: Former Mastermark Printer
Project Number: 0761-001-02
Logged by: R. Honsberger
Date Started: 4/5/2011
Surface Conditions: Asphalt
Well Location N/S: 9' S of NE corner of building
Well Location E/W: 20' E of NE corner of building
Reviewed by: EKR
Date Completed: 4/5/2011

BORING LOG | **P09**
 --

Site Address: 6545 5th Avenue South
 Seattle, WA

Water Depth At Time of Drilling: 7 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0				0.0		SP (FILL)		Damp, dense, fine to medium SAND with silt and subangular gravel, light brown, no hydrocarbon odor (FILL).	
			100	0.0	P09-04	SP (FILL)		Damp, loose, fine to medium SAND, dark brown, no hydrocarbon odor.	
5				0.0		SP (FILL)		Damp, loose, fine to medium SAND, dark brown, no hydrocarbon odor.	
			100	0.0	P09-07	SM		Wet, loose, silty fine SAND with reeds, gray, no hydrocarbon odor.	
				0.0		SM		Wet, loose, silty fine SAND with reeds, dark brown, no hydrocarbon odor.	
10				0.0					
			100	0.0	P09-11				
				0.0					
								Boring completed at 12 feet below ground surface (bgs). Backfilled with bentonite and capped with cold patch.	
15									

Drilling Co./Driller: ESN/Marty
Drilling Equipment: LAR Probe
Sampler Type: Push Probe
Hammer Type/Weight: -- lbs
Total Boring Depth: 12 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: -- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Cold Patch
Annular Seal: Bentonite backfill
Monument Type: --

Notes/Comments:



Project: Former Mastermark Printer
Project Number: 0761-001-02
Logged by: R. Honsberger
Date Started: 4/5/2011
Surface Conditions: Gravel
Well Location N/S: 14' S of NE corner of building
Well Location E/W: 6' E of NE corner of building
Reviewed by: EKR
Date Completed: 4/5/2011

BORING LOG | **P10**
 --

Site Address: 6545 5th Avenue South
 Seattle, WA

Water Depth At Time of Drilling: 7 feet bgs
 Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0				0.0		SP (FILL)		Damp, dense, fine to medium SAND with silt and subangular gravel, light brown, no hydrocarbon odor (FILL).	
			100	0.0	P10-04	SP (FILL)		Damp, loose, fine to medium SAND, dark brown, no hydrocarbon odor.	
5				0.1		SP (FILL)		Similar to previous, no hydrocarbon odor.	
			100	85.4	P10-07	SM		Wet, loose, silty fine SAND, gray, strong hydrocarbon odor.	
				22.3		SM		Wet, loose, silty fine SAND, gray, moderate hydrocarbon odor.	
				13.6				Wet, loose, silty fine SAND, gray to dark brown, no hydrocarbon odor.	
10				1.0	P10-10				
			100	0.8		SP		Wet, loose, fine to medium SAND, dark brown, no hydrocarbon odor.	
								Boring completed at 12 feet below ground surface (bgs). Backfilled with bentonite and capped with cold patch.	
15									

Drilling Co./Driller: ESN/Marty
Drilling Equipment: LAR Probe
Sampler Type: Push Probe
Hammer Type/Weight: - lbs
Total Boring Depth: 12 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: -- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Cold Patch
Annular Seal: Bentonite backfill
Monument Type: --

Notes/Comments:



Project: Former Mastermark Printer
Project Number: 0761-001-02
Logged by: R. Honsberger
Date Started: 4/5/2011
Surface Conditions: Cement
Well Location N/S: 20.5' S of NE corner of building
Well Location E/W: 3.9' E of NE corner of building
Reviewed by: EKR
Date Completed: 4/5/2011

BORING LOG | **P11**
 --

Site Address: 6545 5th Avenue South
 Seattle, WA

Water Depth At Time of Drilling: 7 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						SP (Fill)		Damp, loose, fine to medium SAND, dark brown, no hydrocarbon odor.	
			80	0.0					
				0.1	P11-04	SP (Fill)		Damp, loose, fine to medium SAND, dark brown, no hydrocarbon odor.	
5				4.7					
			100						
				40.8	P11-07	SM		Wet, loose, silty fine SAND, gray, moderate hydrocarbon odor, sheen on soil.	
				4.8		SM		Wet, loose, silty fine SAND, gray, no hydrocarbon odor.	
10									
			100		P11-10				
				1.7					
								Boring completed at 12 feet below ground surface (bgs). Backfilled with bentonite and capped with cold patch.	
15									

Drilling Co./Driller: ESN/Marty
Drilling Equipment: LAR Probe
Sampler Type: Push Probe
Hammer Type/Weight: -- lbs
Total Boring Depth: 12 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: -- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Bentonite backfill
Monument Type: --

Notes/Comments:



Project: Former Mastermark Printer
Project Number: 0761-001-02
Logged by: R. Honsberger
Date Started: 4/5/2011
Surface Conditions: Concrete
Well Location N/S: 22.5' S of NE corner of building
Well Location E/W: 2.6' W of NE corner of building
Reviewed by: EKR
Date Completed: 4/5/2011

BORING LOG | **P12**
 --

Site Address: 6545 5th Avenue South
 Seattle, WA

Water Depth At Time of Drilling: 6 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						SP (FILL)		Damp, loose, fine to medium SAND, dark brown, no hydrocarbon odor.	
			90	0.0					
				0.2	P12-04				
				0.5		SP (FILL)		Damp, loose, fine to medium SAND, dark brown, no hydrocarbon odor.	
5									
			100	39.0	P12-06	SM		Wet, loose, silty fine SAND, gray, slight hydrocarbon odor.	
				2.1				Wet, loose, silty fine SAND, gray, no hydrocarbon odor.	
				0.2		SM			
10									
			100		P12-11			Wet, loose, silty fine SAND, gray, no hydrocarbon odor.	
				0.1					
								Boring completed at 12 feet below ground surface (bgs). Backfilled with bentonite and capped with cold patch.	
15									

Drilling Co./Driller: ESN/Marty
Drilling Equipment: LAR Probe
Sampler Type: Push Probe
Hammer Type/Weight: -- lbs
Total Boring Depth: 12 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: -- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Bentonite backfill
Monument Type: --

Notes/Comments:



Project: Former Mastermark Printer
Project Number: 0761-001-02
Logged by: R. Honsberger
Date Started: 4/5/2011
Surface Conditions: Concrete
Well Location N/S: 12' S of NE corner of building
Well Location E/W: 2' W of NE corner of building
Reviewed by: EKR
Date Completed: 4/5/2011

BORING LOG | **P13**
 --

Site Address: 6545 5th Avenue South
 Seattle, WA

Water Depth At Time of Drilling: 6 feet bgs
 Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0				0.0		SP (FILL)		Damp, loose, medium SAND, dark brown, no hydrocarbon odor.	
			100	0.0	P13-04	SP (FILL)		Damp, loose, fine to medium SAND, dark brown, no hydrocarbon odor.	
5			100	33.2	P13-06	SM		Wet, silty fine SAND with rootlets, gray, slight hydrocarbon odor.	
				1.8		SM			
				2.1					
10			100		P13-11			Wet, silty fine SAND, gray, no hydrocarbon odor.	
				1.1					
								Boring completed at 12 feet below ground surface (bgs). Backfilled with bentonite and capped with cold patch.	
15									

Drilling Co./Driller: ESN/Marty
Drilling Equipment: LAR Probe
Sampler Type: Push Probe
Hammer Type/Weight: -- lbs
Total Boring Depth: 12 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: -- inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: Concrete
Annular Seal: Bentonite backfill
Monument Type: --

Notes/Comments:

**ATTACHMENT B
LABORATORY ANALYTICAL REPORT**

Friedman & Bruya, Inc. #104047

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
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3012 16th Avenue West
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TEL: (206) 285-8282
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April 11, 2011

Erin Rothman, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Ms. Rothman:

Included are the results from the testing of material submitted on April 6, 2011 from the SOU_0761_20110406, F&BI 104047 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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.



Michael Erdahl
Project Manager

Enclosures
SOU0411R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 6, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0761_20110406, F&BI 104047 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
104047-01	P06-04
104047-02	P06-07
104047-03	P06-11
104047-04	P07-04
104047-05	P07-07
104047-06	P07-11
104047-07	P08-04
104047-08	P08-07
104047-09	P08-11
104047-10	P09-04
104047-11	P09-07
104047-12	P09-11
104047-13	P10-04
104047-14	P10-07
104047-15	P10-10
104047-16	P11-04
104047-17	P11-07
104047-18	P11-10
104047-19	P12-04
104047-20	P12-06
104047-21	P12-11
104047-22	P13-04
104047-23	P13-06
104047-24	P13-11

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/11/11
Date Received: 04/06/11
Project: SOU_0761_20110406, F&BI 104047
Date Extracted: 04/07/11
Date Analyzed: 04/07/11 and 04/08/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
P06-04 104047-01	<50	<250	106
P06-07 104047-02	<50	<250	116
P06-11 104047-03	<50	<250	108
P07-04 104047-04	<50	<250	118
P07-07 104047-05	<50	<250	118
P07-11 104047-06	<50	<250	109
P08-04 104047-07	<50	<250	112
P08-07 104047-08	<50	<250	115
P08-11 104047-09	<50	530	115
P09-04 104047-10	<50	<250	107
P09-07 104047-11	<50	<250	109

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/11/11
 Date Received: 04/06/11
 Project: SOU_0761_20110406, F&BI 104047
 Date Extracted: 04/07/11
 Date Analyzed: 04/07/11 and 04/08/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR TOTAL PETROLEUM HYDROCARBONS AS
 DIESEL AND MOTOR OIL
 USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis
 Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
P09-11 104047-12	<50	<250	109
P10-04 104047-13	<50	<250	115
P10-07 104047-14	3,000	<250	114
P10-10 104047-15	<50	<250	87
P11-04 104047-16	<50	<250	118
P11-07 104047-17	<50	<250	104
P11-10 104047-18	<50	<250	118
P12-04 104047-19	<50	<250	121
P12-06 104047-20	160	<250	114
P12-11 104047-21	<50	<250	96
P13-04 104047-22	<50	<250	96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/11/11
Date Received: 04/06/11
Project: SOU_0761_20110406, F&BI 104047
Date Extracted: 04/07/11
Date Analyzed: 04/07/11 and 04/08/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
P13-06 104047-23	1,600	<250	95
P13-11 104047-24	<50	<250	96
Method Blank 01-607 MB	<50	<250	103
Method Blank 01-606 MB	<50	<250	126

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/11/11

Date Received: 04/06/11

Project: SOU_0761_20110406, F&BI 104047

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 104047-22 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	104	105	73-135	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	104	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 04/11/11

Date Received: 04/06/11

Project: SOU_0761_20110406, F&BI 104047

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 104047-01 (Matrix Spike)

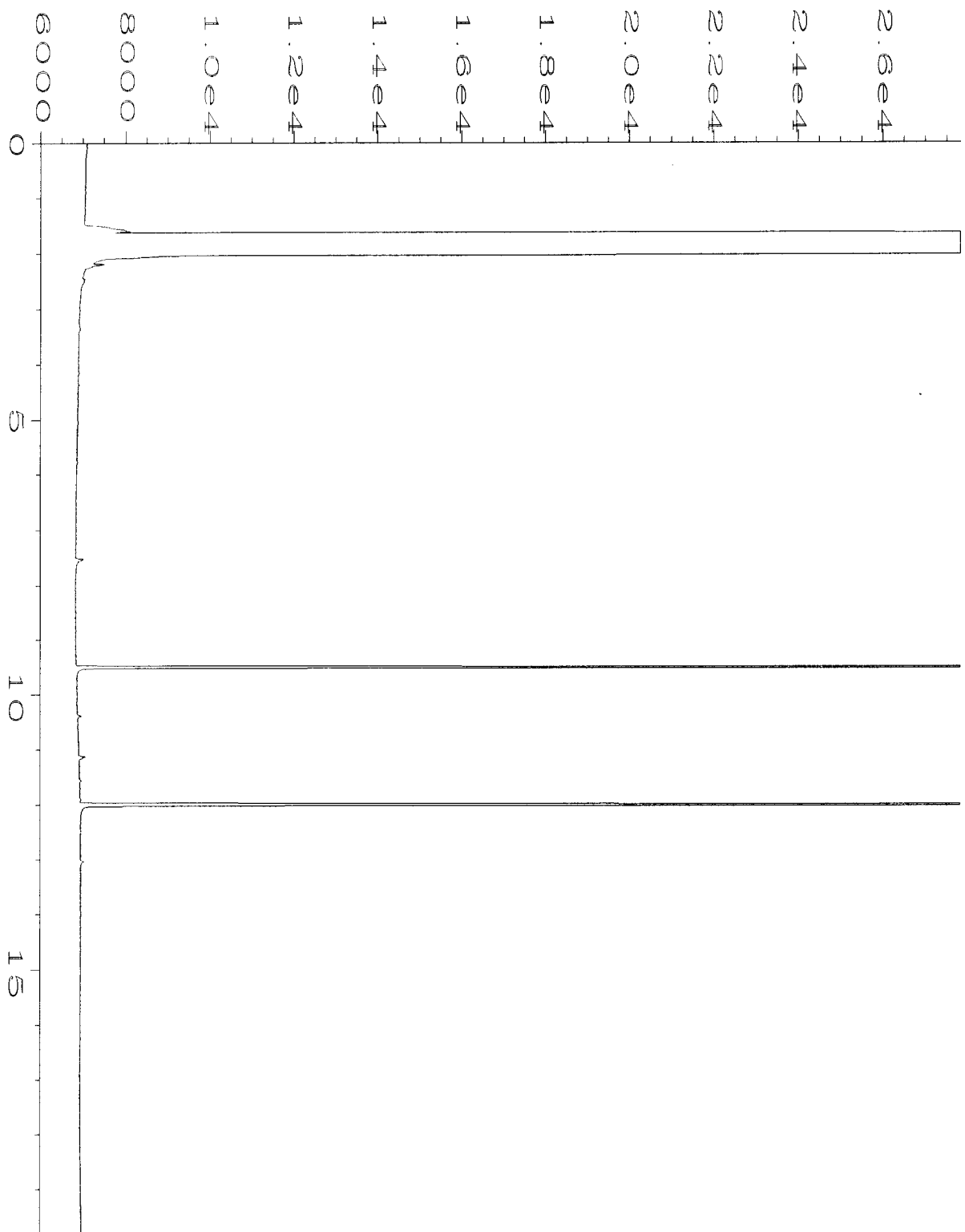
Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	120	121	63-146	1

Laboratory Code: Laboratory Control Sample

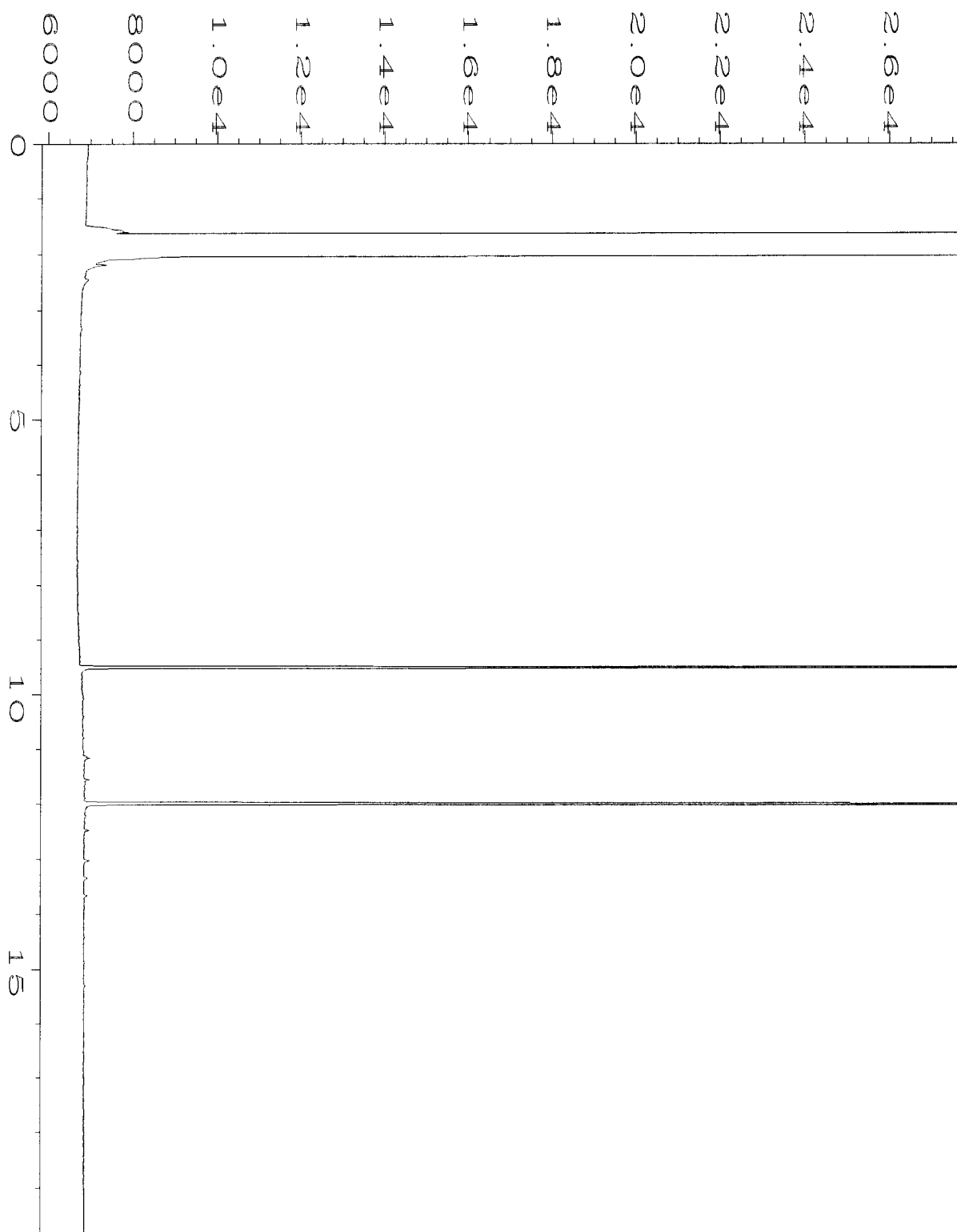
Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	121	79-144

Data Qualifiers & Definitions

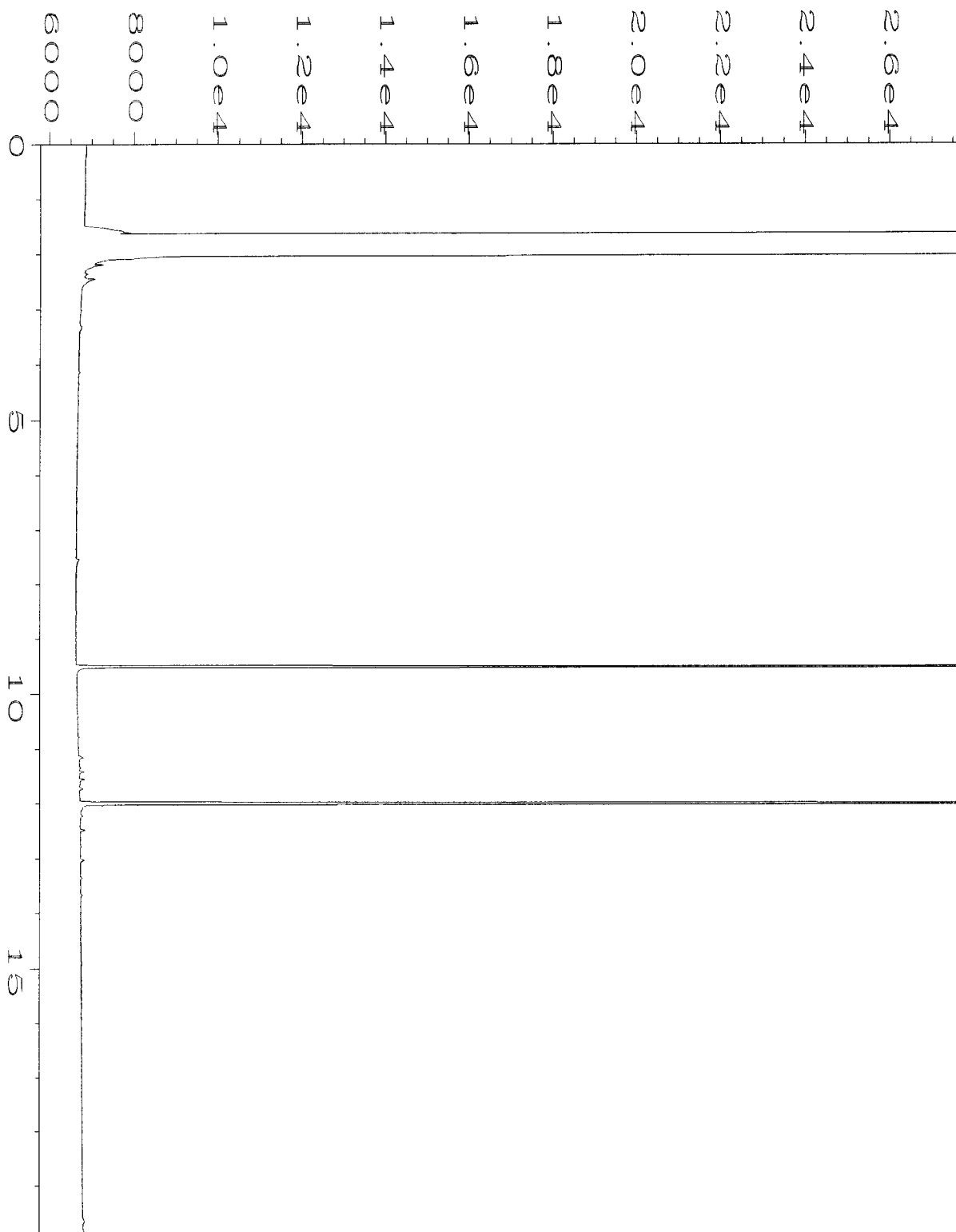
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- A1 – More than one compound of similar molecule structure was identified with equal probability.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte indicated may be due to carryover from previous sample injections.
- d - The sample was diluted. Detection limits may be raised due to dilution.
- ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb - Analyte present in the blank and the sample.
- fc – The compound is a common laboratory and field contaminant.
- hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.
- ht - Analysis performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j – The result is below normal reporting limits. The value reported is an estimate.
- J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc - The presence of the compound indicated is likely due to laboratory contamination.
- L - The reported concentration was generated from a library search.
- nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- vo - The value reported fell outside the control limits established for this analyte.
- x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



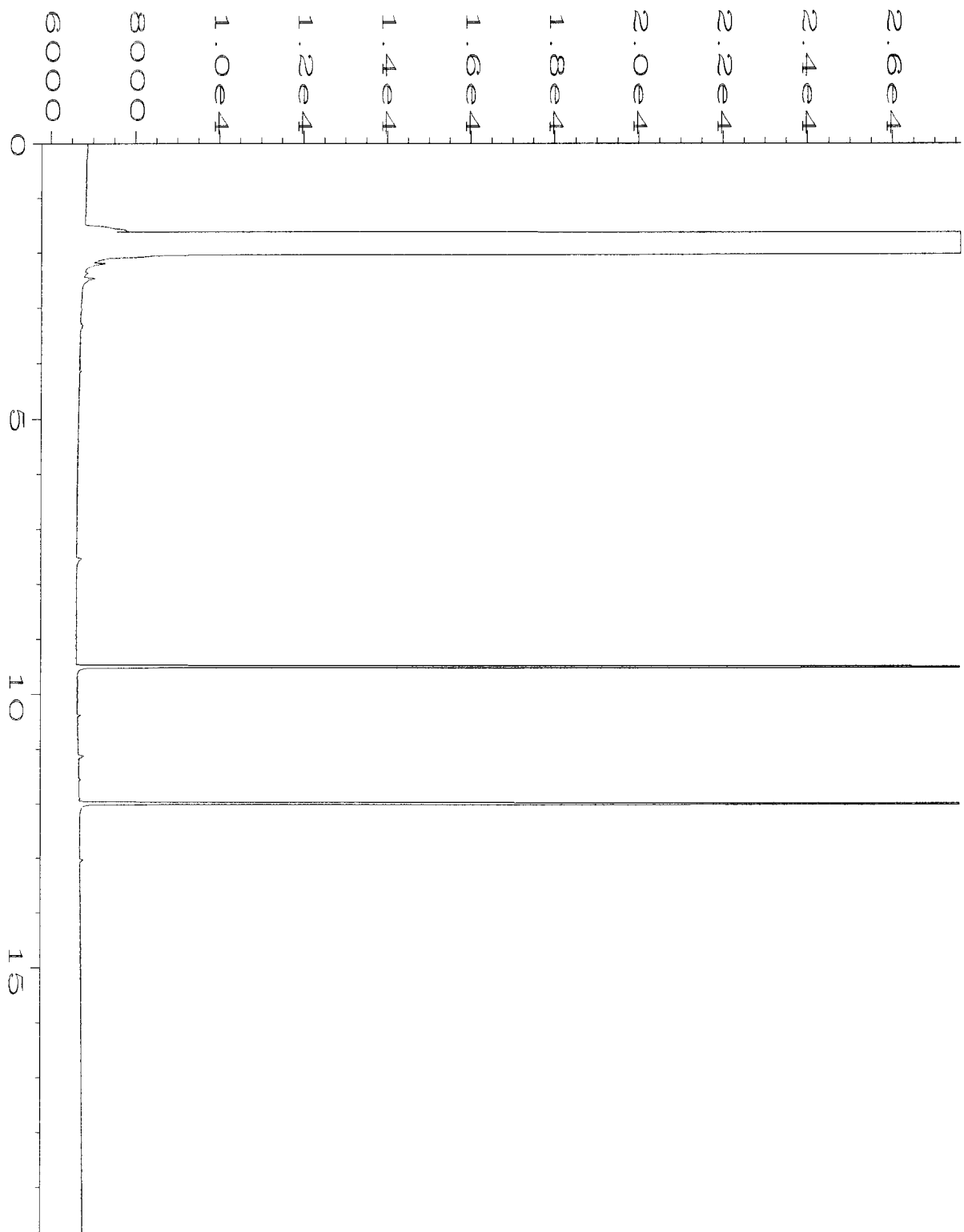
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\008F0301.D	Page Number	: 1
Operator	: ML	Vial Number	: 8
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 08:16 AM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:55 AM		



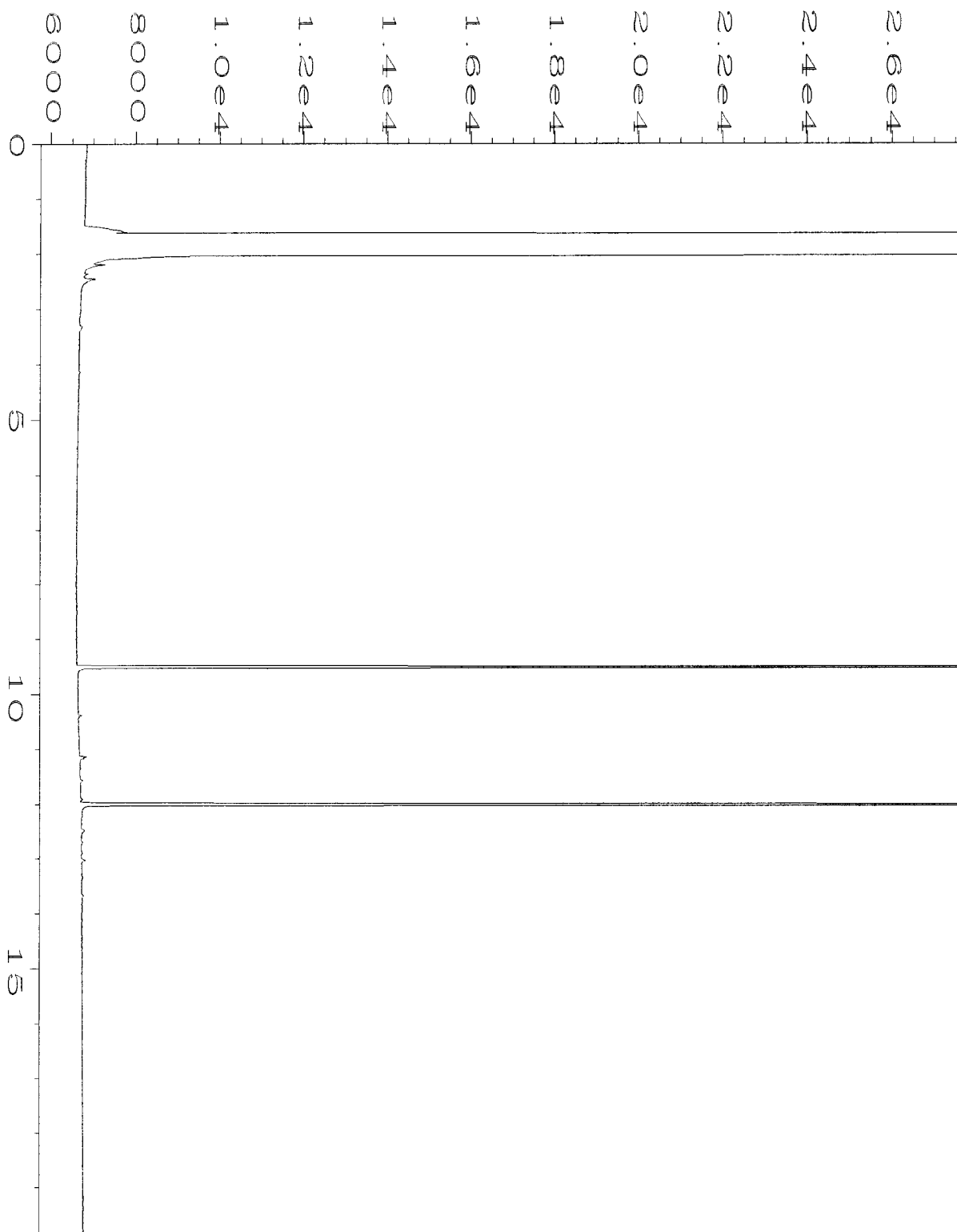
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\011F0501.D	Page Number	: 1
Operator	: ML	Vial Number	: 11
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-02	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 10:29 AM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:55 AM		



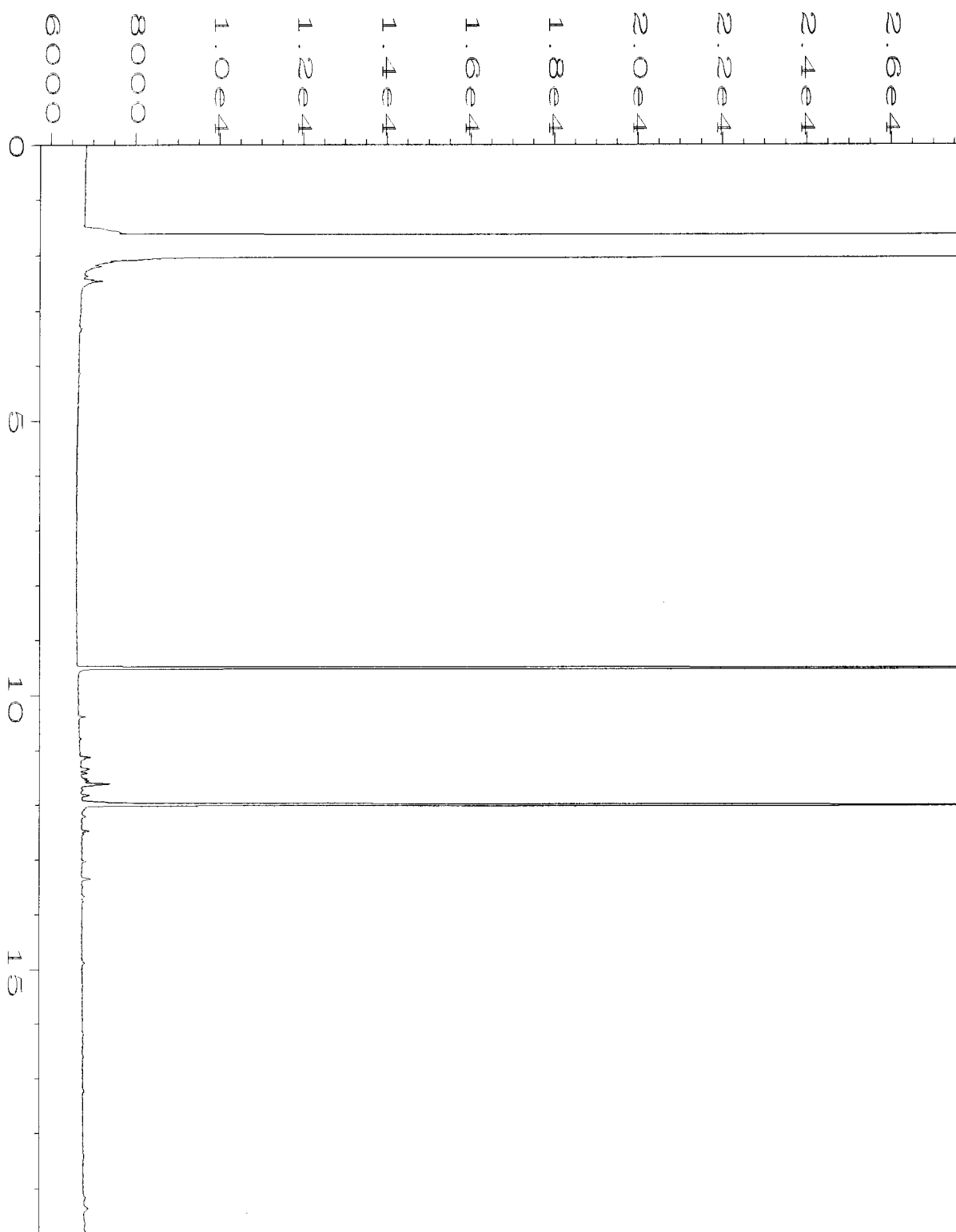
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\014F0501.D	Page Number	: 1
Operator	: ML	Vial Number	: 14
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-03	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 11:49 AM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:56 AM		



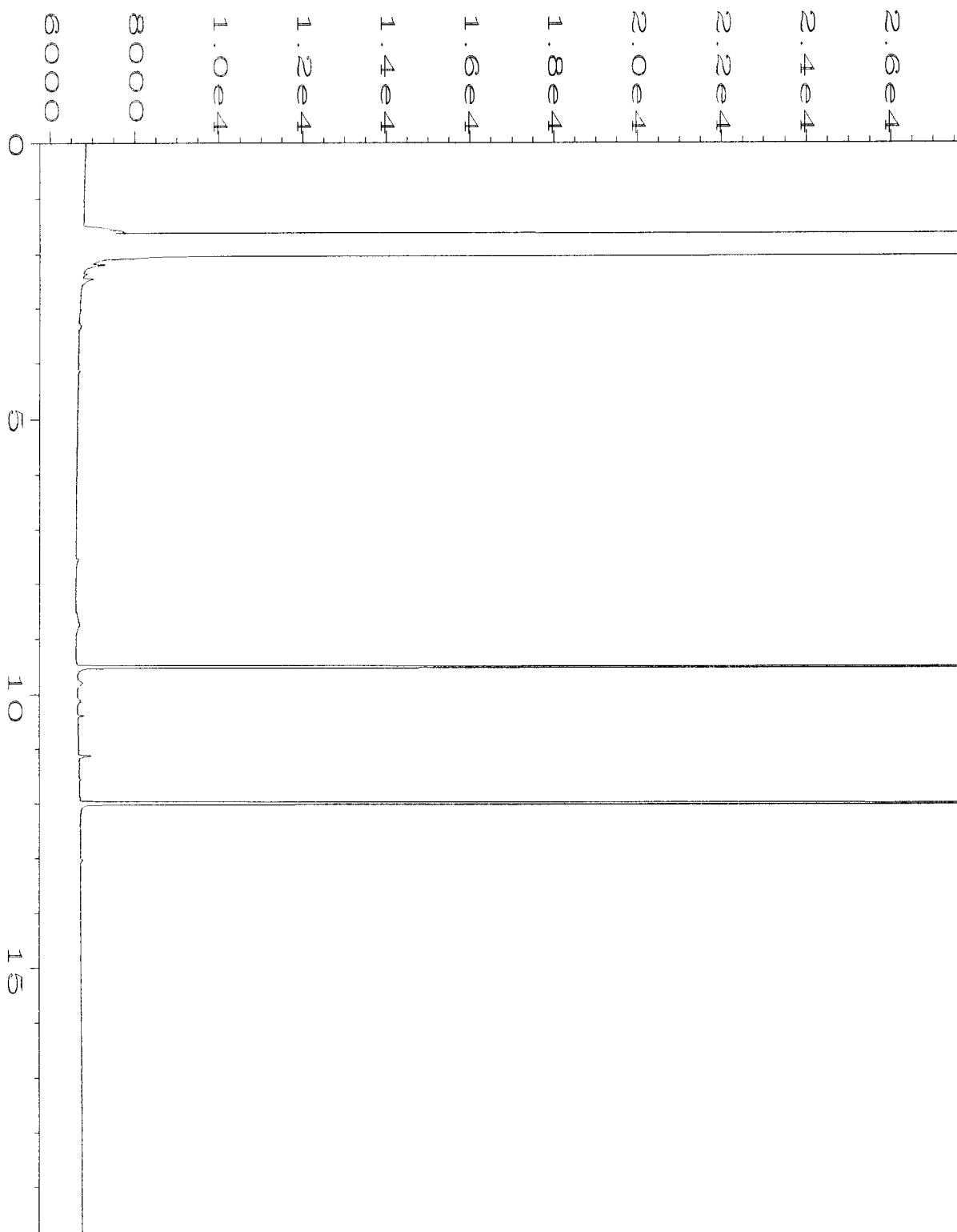
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\015F0501.D	Page Number	: 1
Operator	: ML	Vial Number	: 15
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-04	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 12:16 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:56 AM		



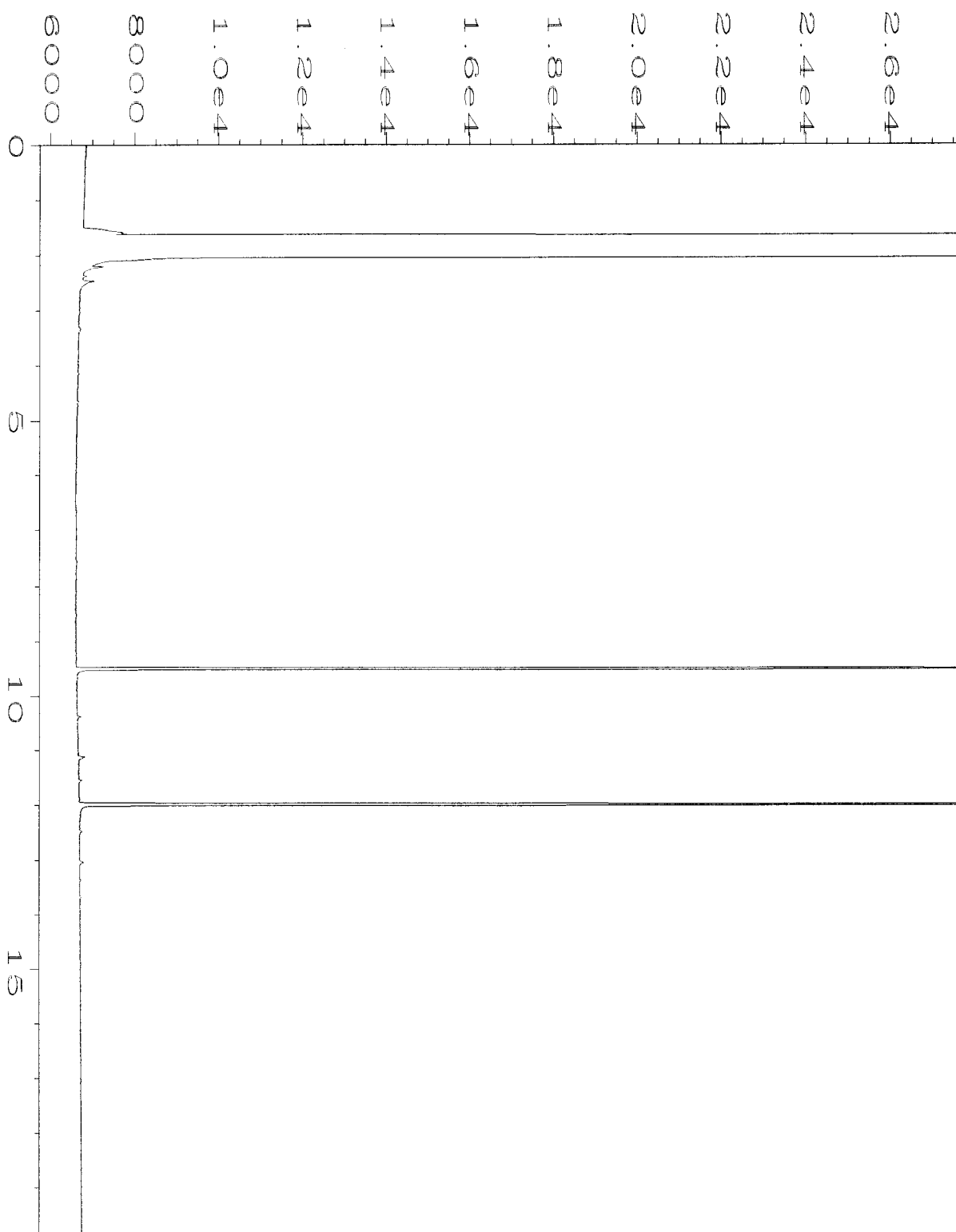
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\016F0501.D	Page Number	: 1
Operator	: ML	Vial Number	: 16
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-05	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 12:43 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:56 AM		



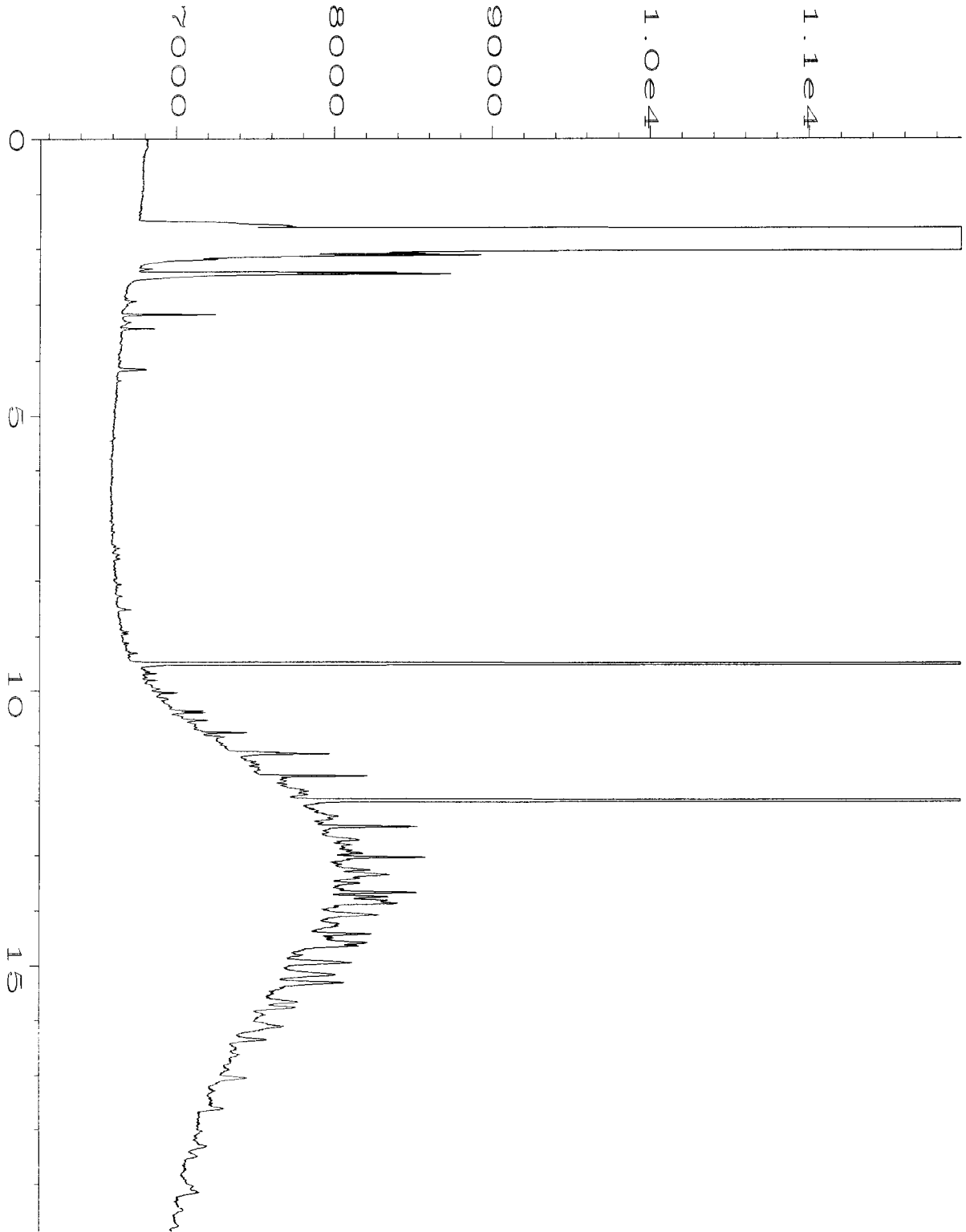
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\017F0501.D	Page Number	: 1
Operator	: ML	Vial Number	: 17
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-06	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 01:10 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:56 AM		



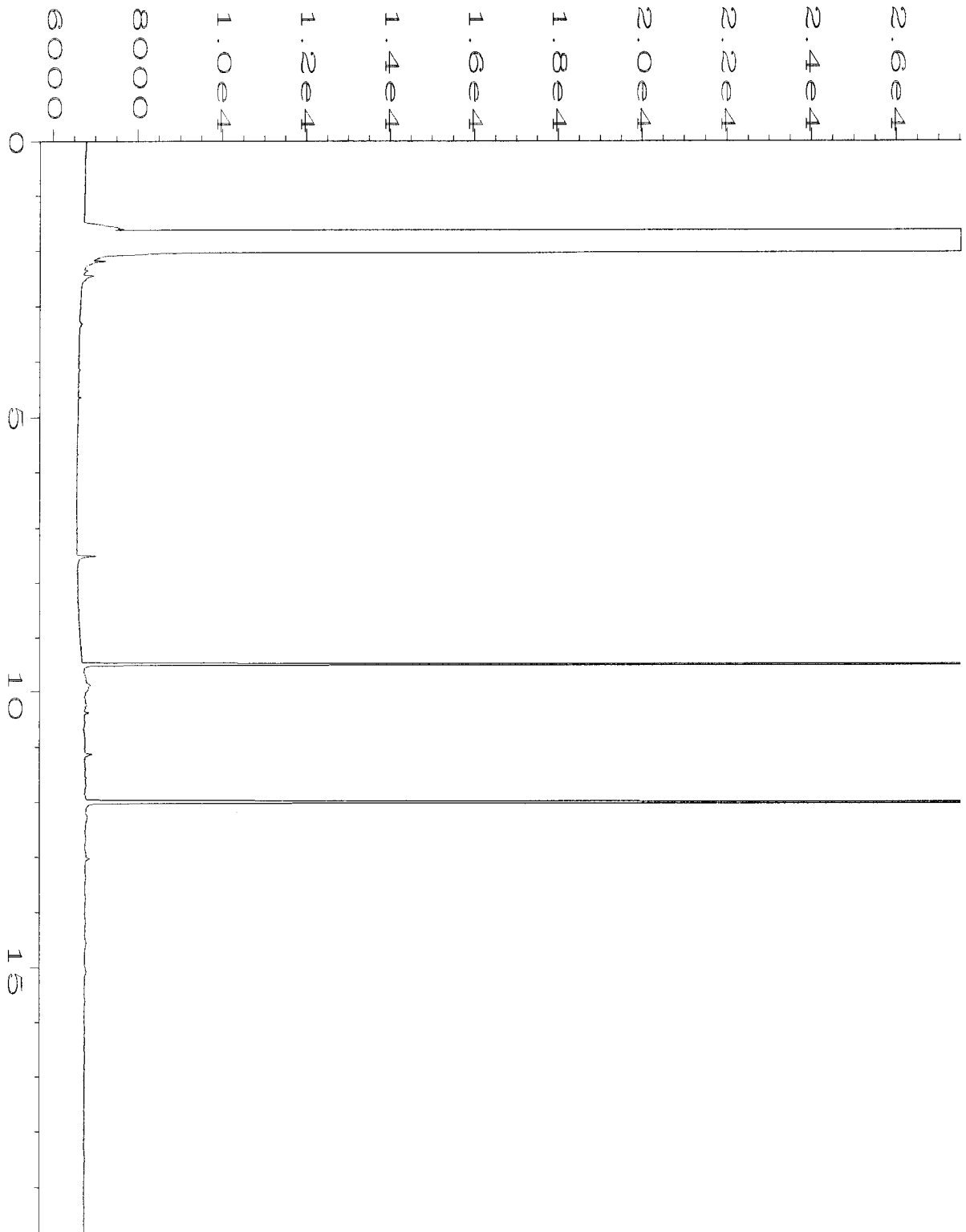
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\018F0501.D	Page Number	: 1
Operator	: ML	Vial Number	: 18
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-07	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 01:37 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:56 AM		



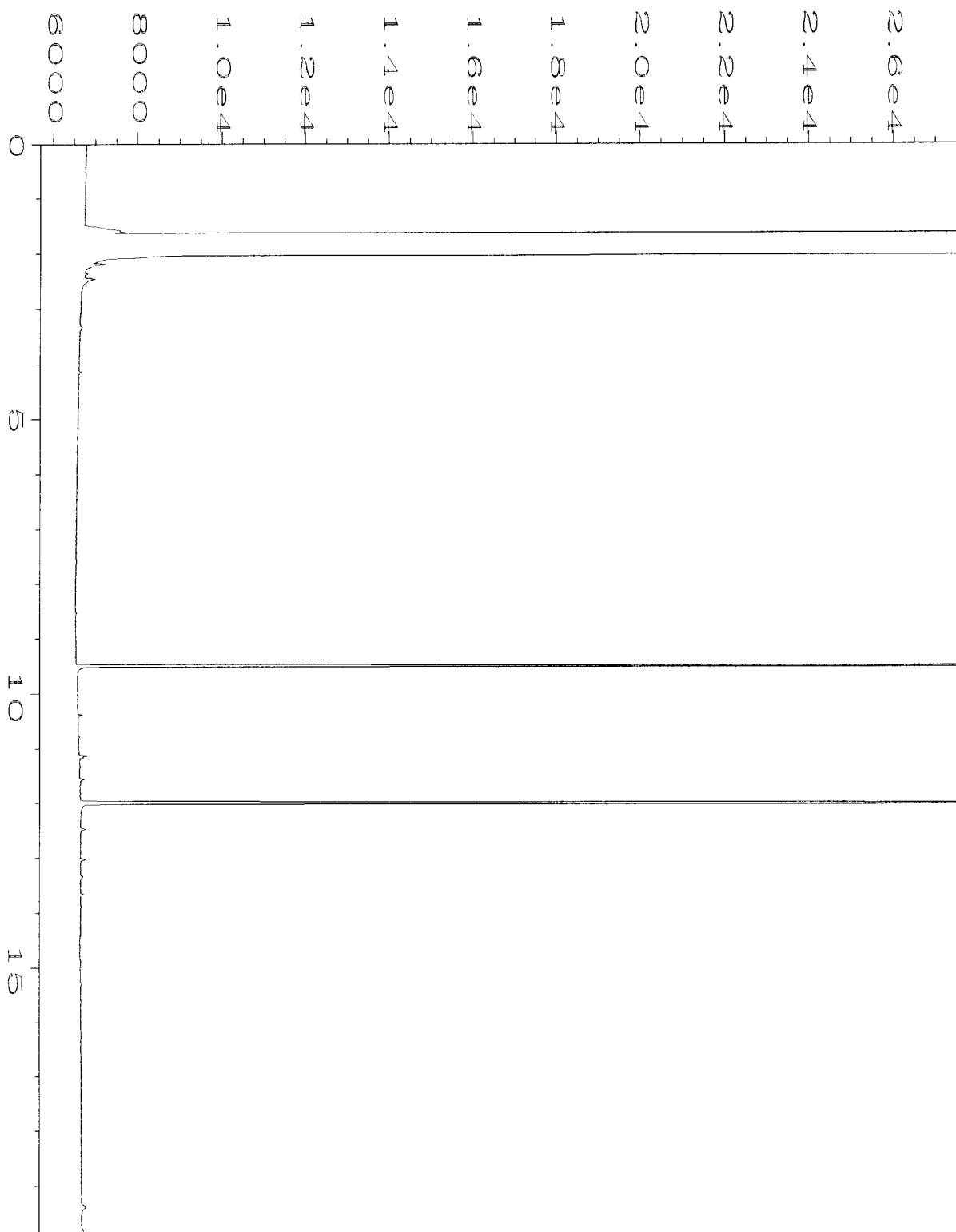
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\019F0501.D	Page Number	: 1
Operator	: ML	Vial Number	: 19
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-08	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 02:03 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:56 AM		



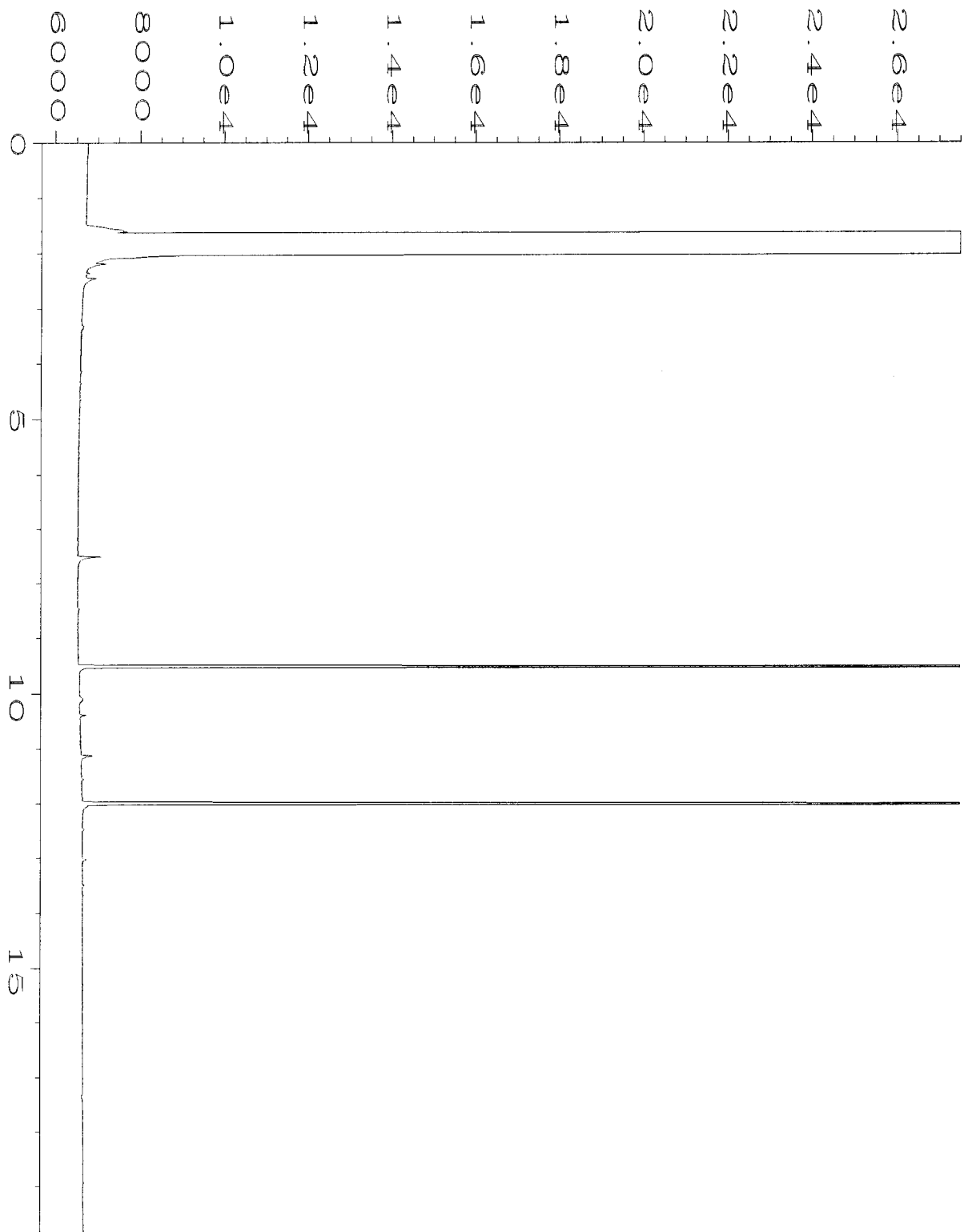
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\020F0701.D	Page Number	: 1
Operator	: ML	Vial Number	: 20
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-09	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 03:24 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:56 AM		



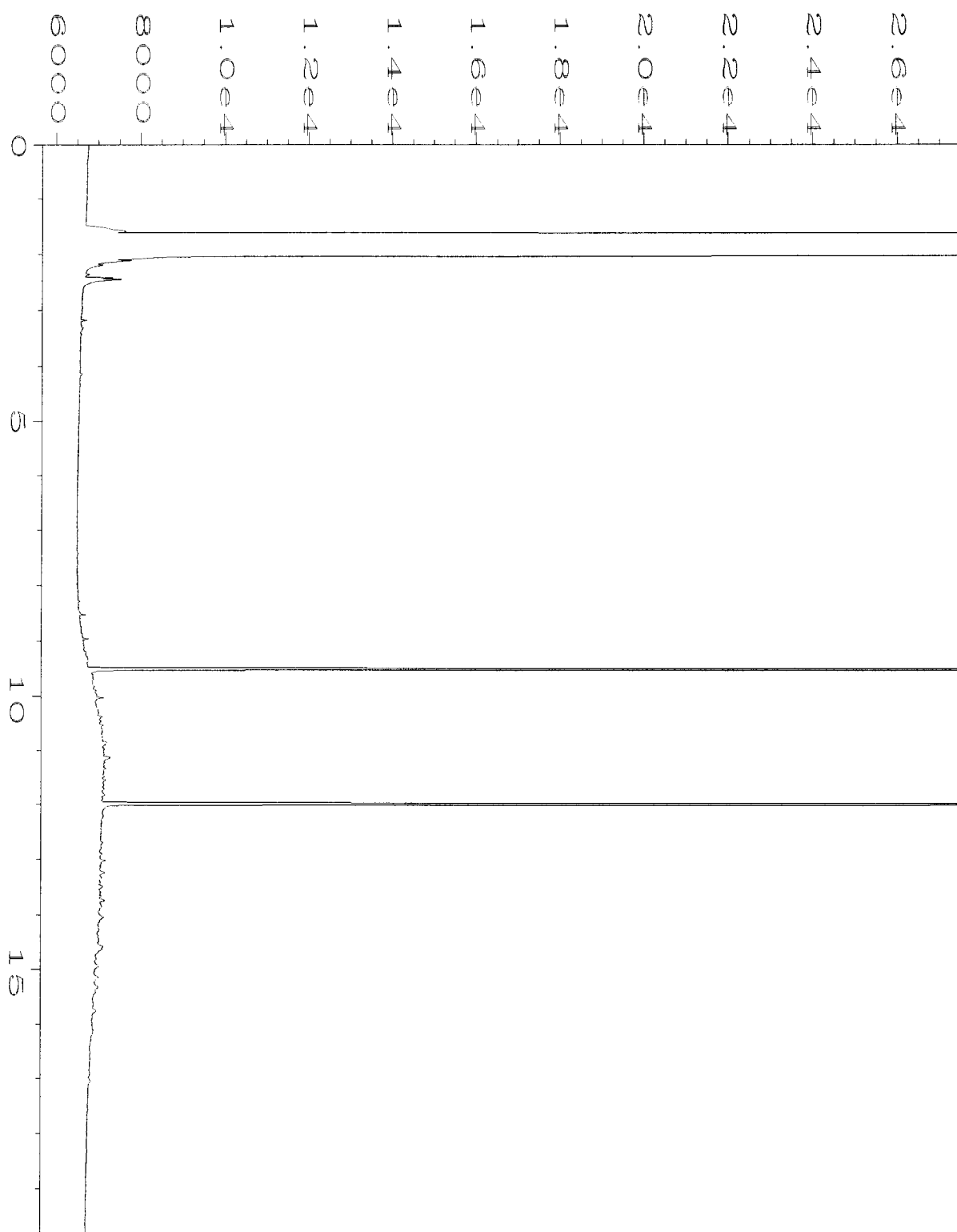
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\021F0701.D	Page Number	: 1
Operator	: ML	Vial Number	: 21
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-10	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 03:51 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:56 AM		



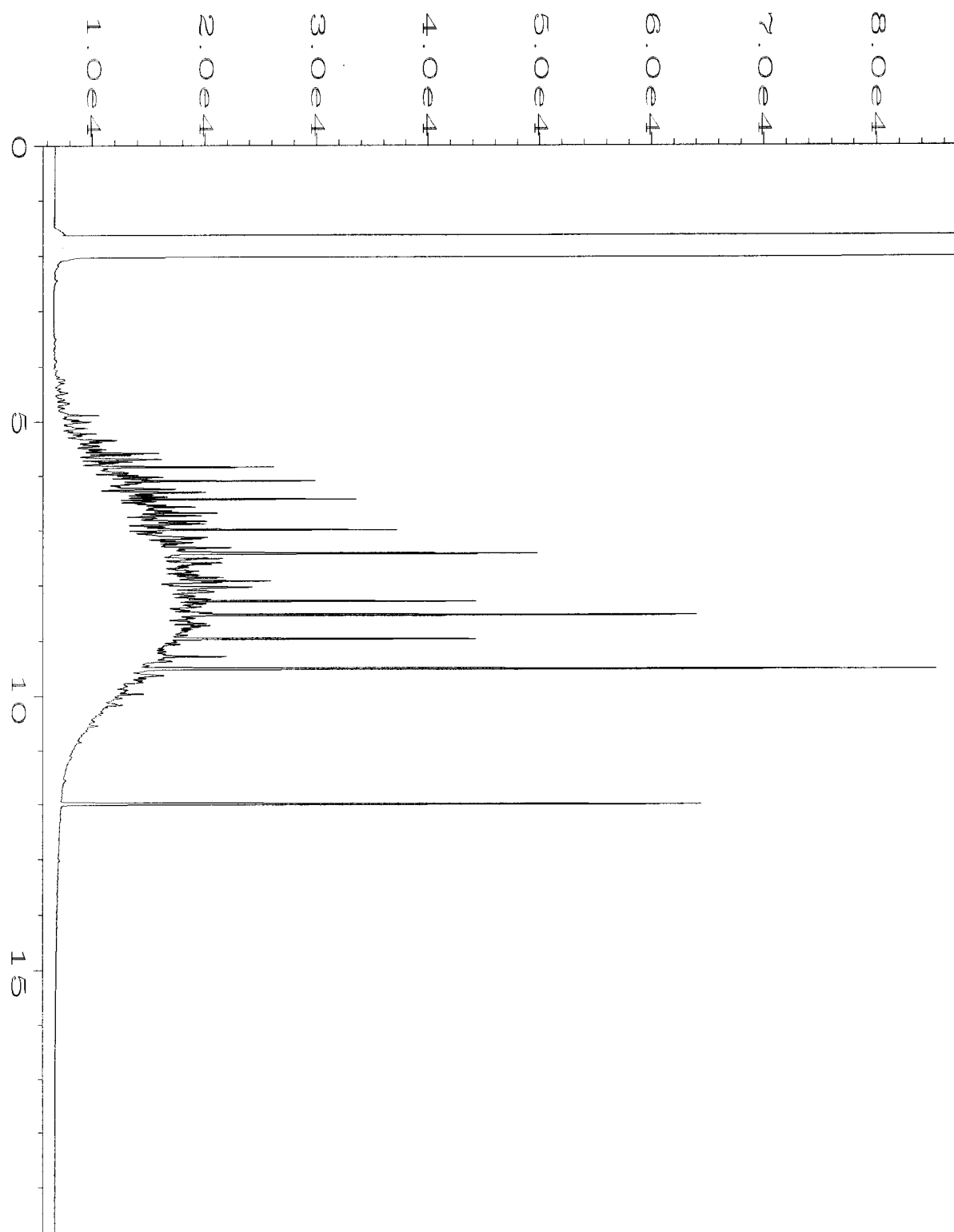
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\022F0701.D	Page Number	: 1
Operator	: ML	Vial Number	: 22
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-11	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 04:18 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:56 AM		



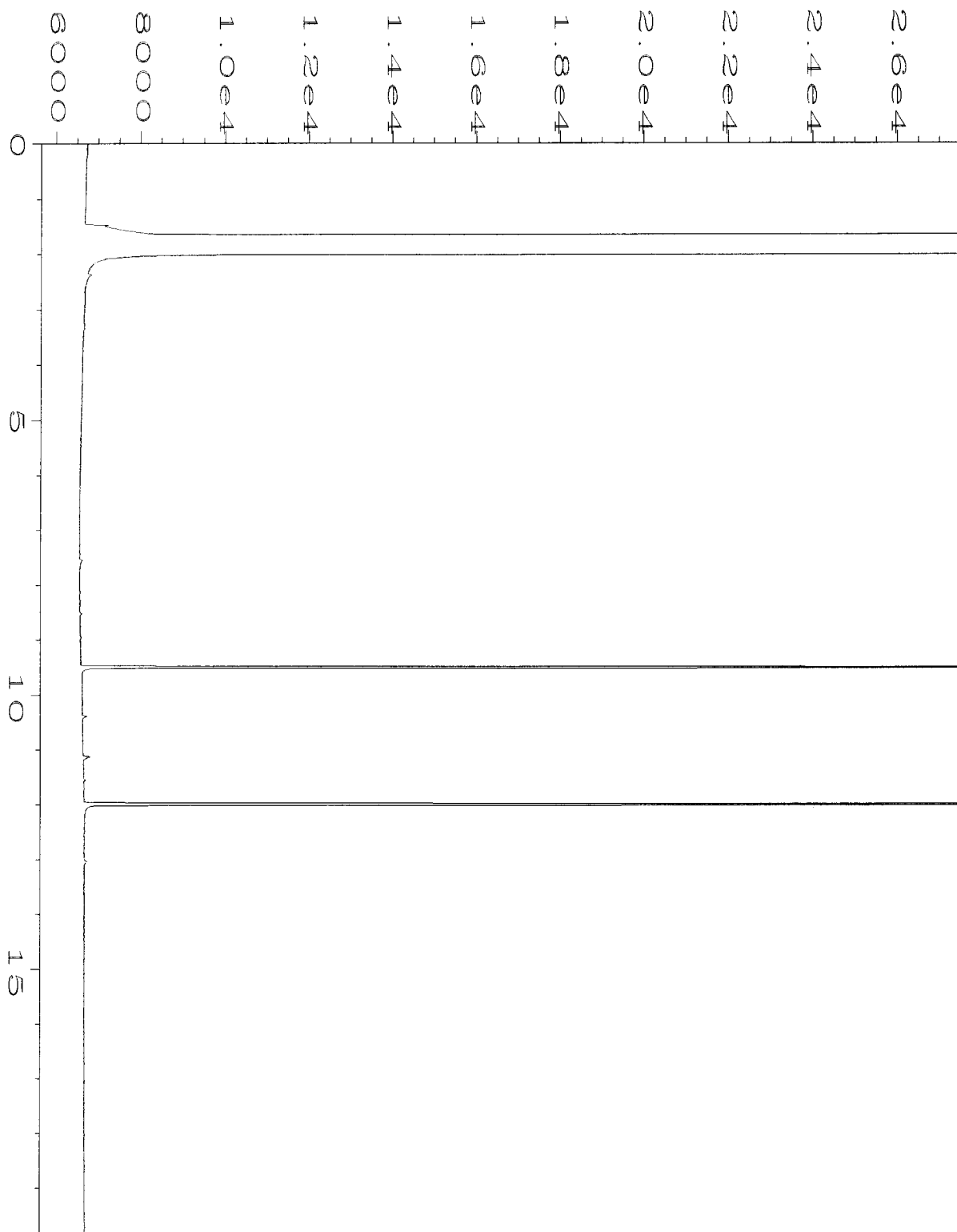
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\023F0701.D	Page Number	: 1
Operator	: ML	Vial Number	: 23
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-12	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 04:45 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:57 AM		



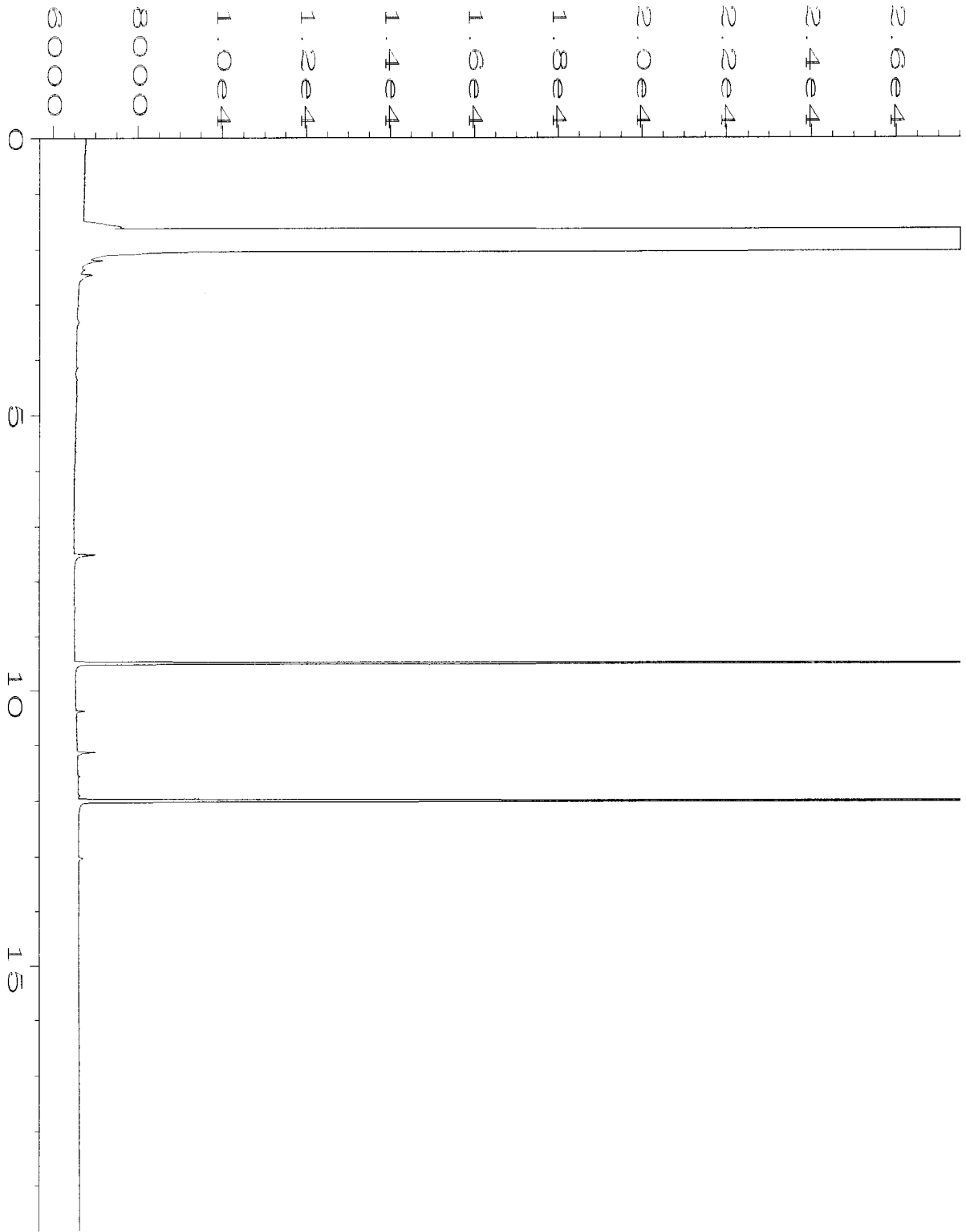
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\024F0701.D	Page Number	: 1
Operator	: ML	Vial Number	: 24
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-13	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 05:12 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:57 AM		



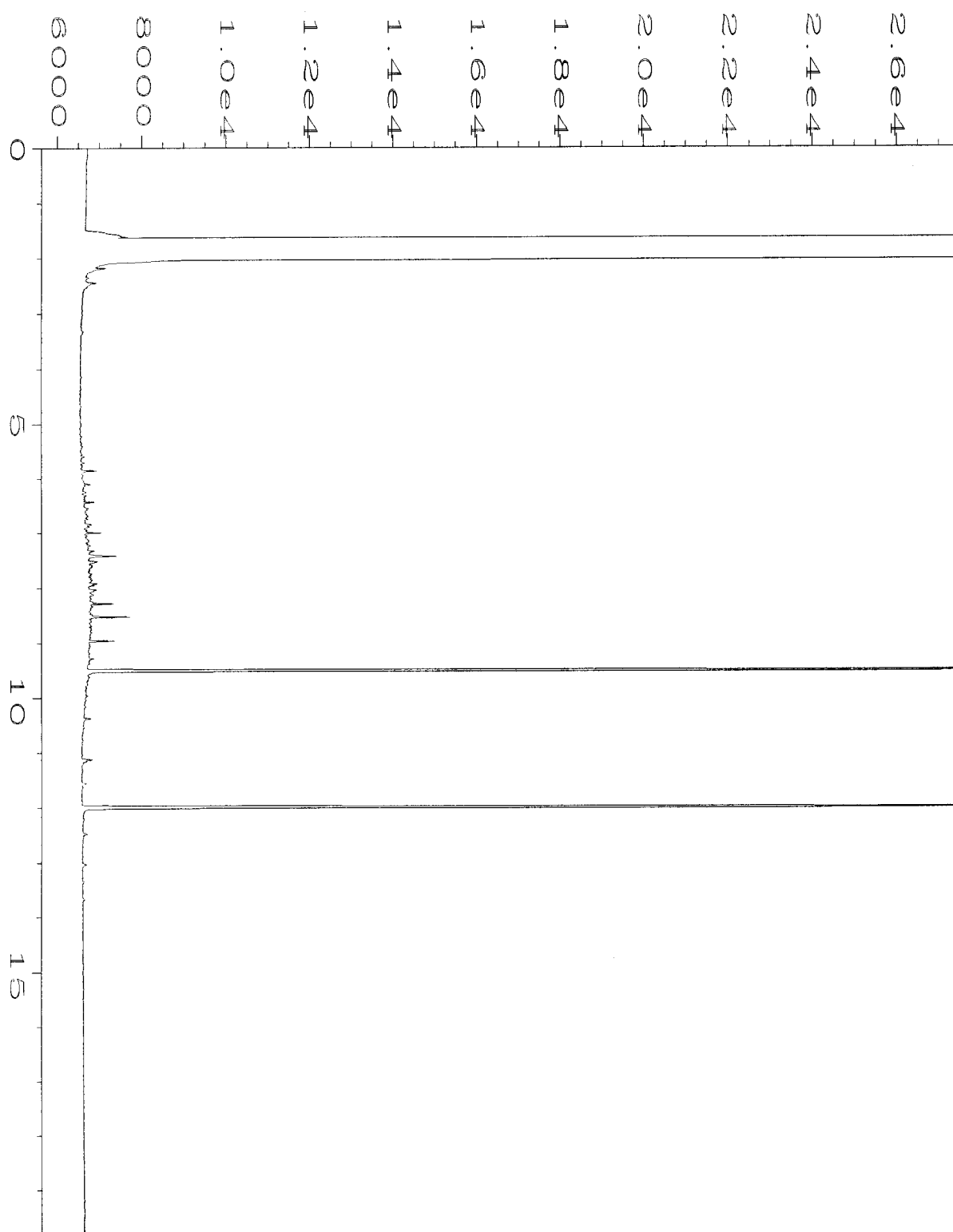
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\025F0701.D	Page Number	: 1
Operator	: ML	Vial Number	: 25
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-14	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 05:39 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:57 AM		



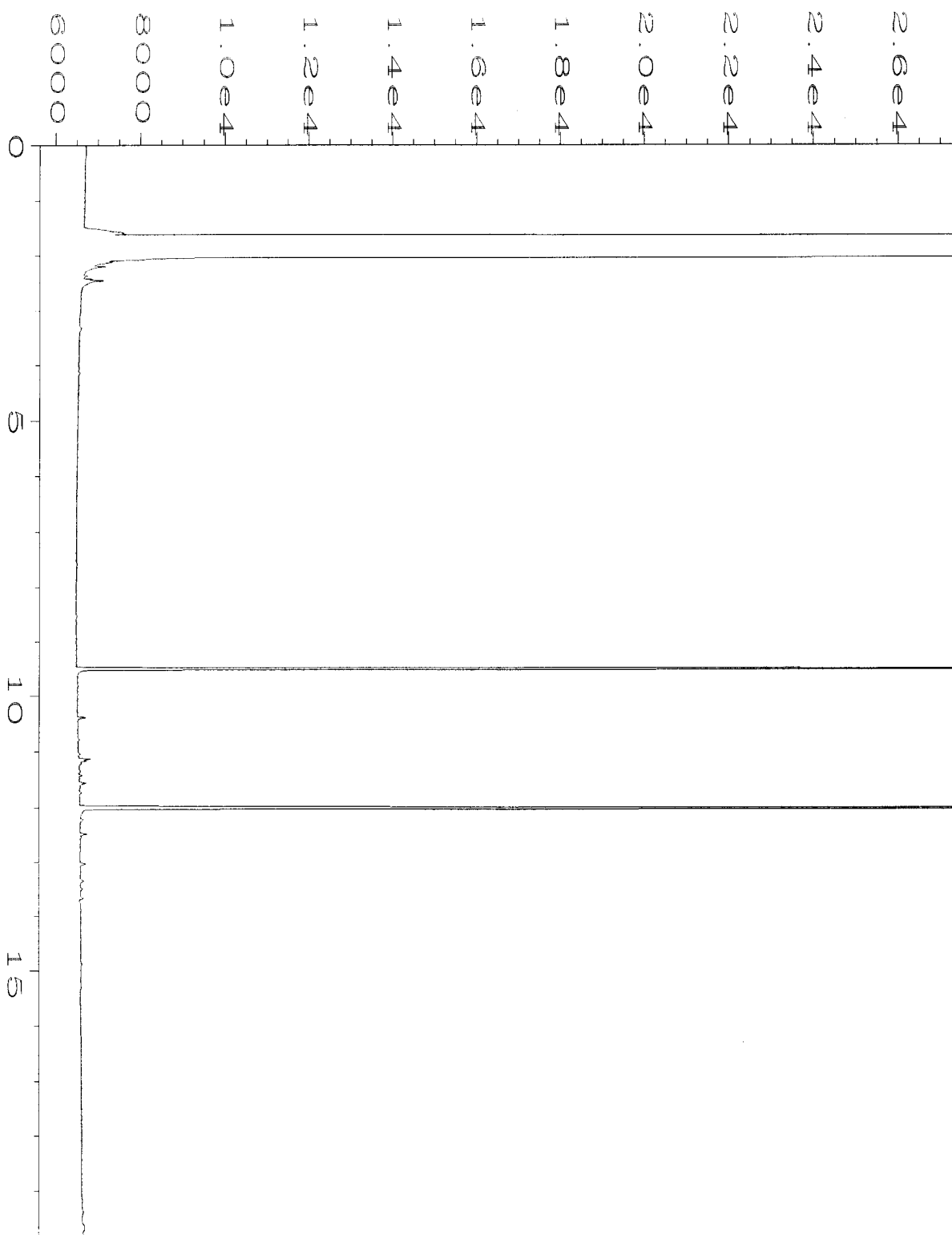
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\026F0701.D	Page Number	: 1
Operator	: ML	Vial Number	: 26
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-15	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 06:06 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:57 AM		



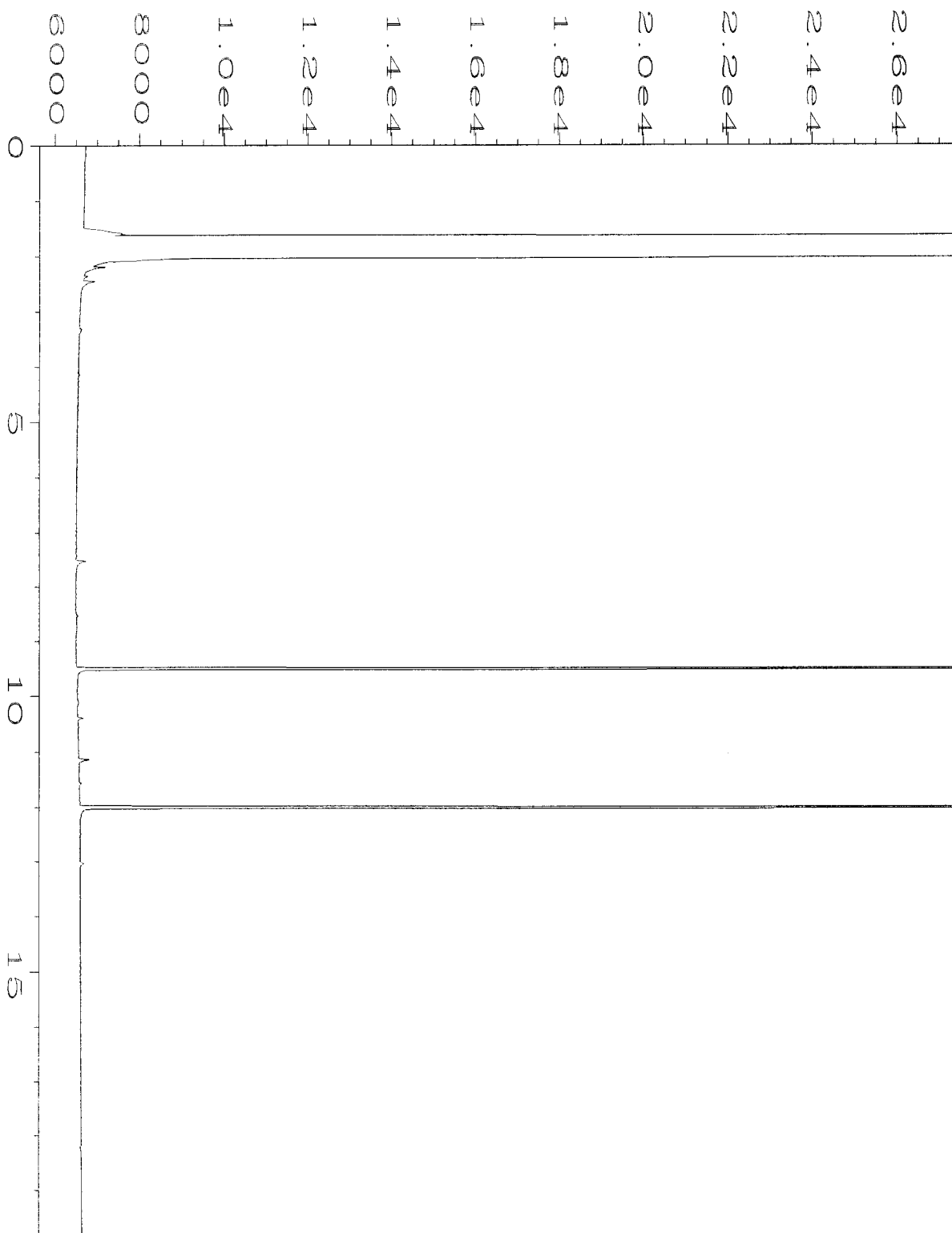
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\027F0701.D	Page Number	: 1
Operator	: ML	Vial Number	: 27
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-16	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 06:33 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:57 AM		



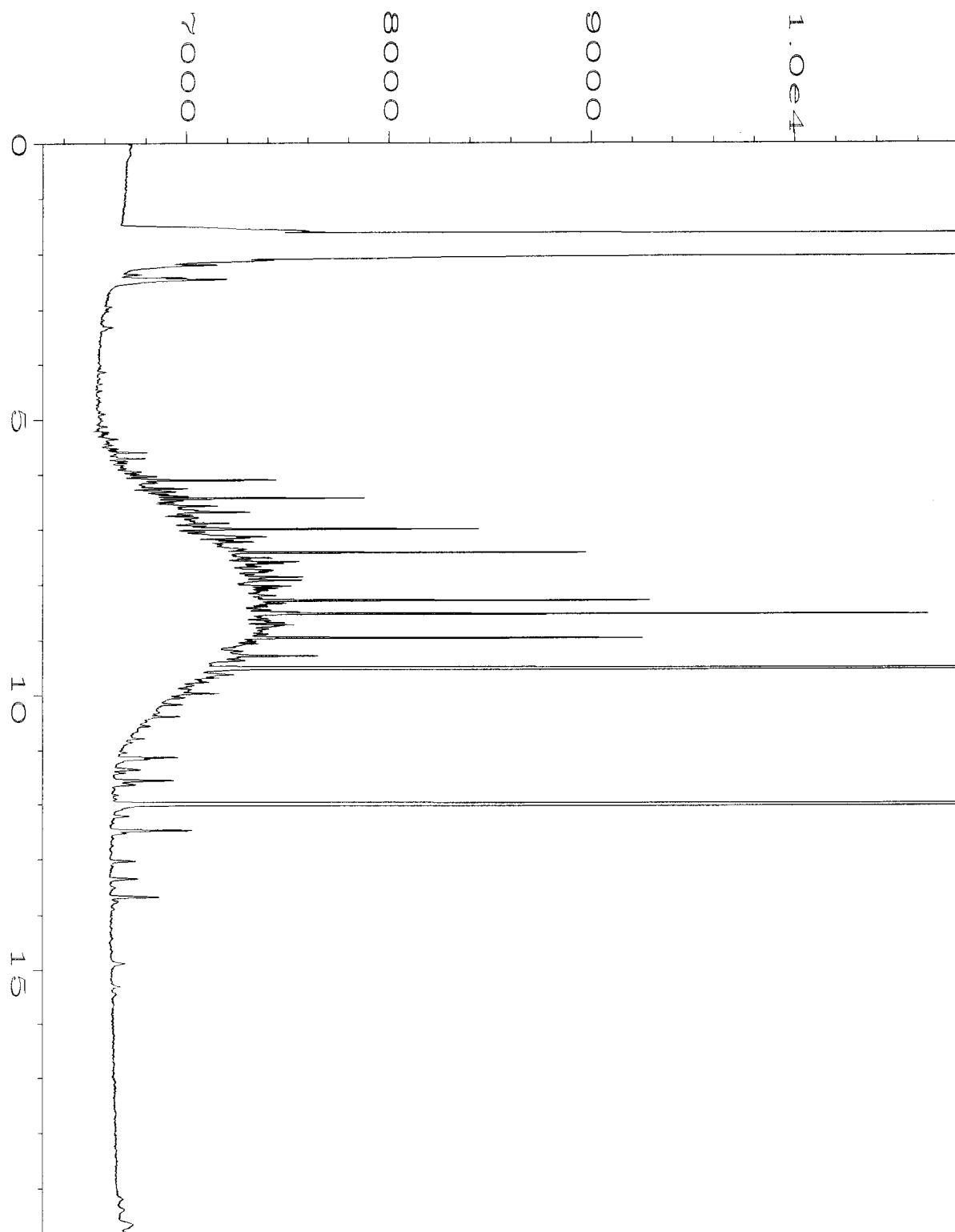
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\028F0701.D	Page Number	: 1
Operator	: ML	Vial Number	: 28
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-17	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 07:00 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:57 AM		



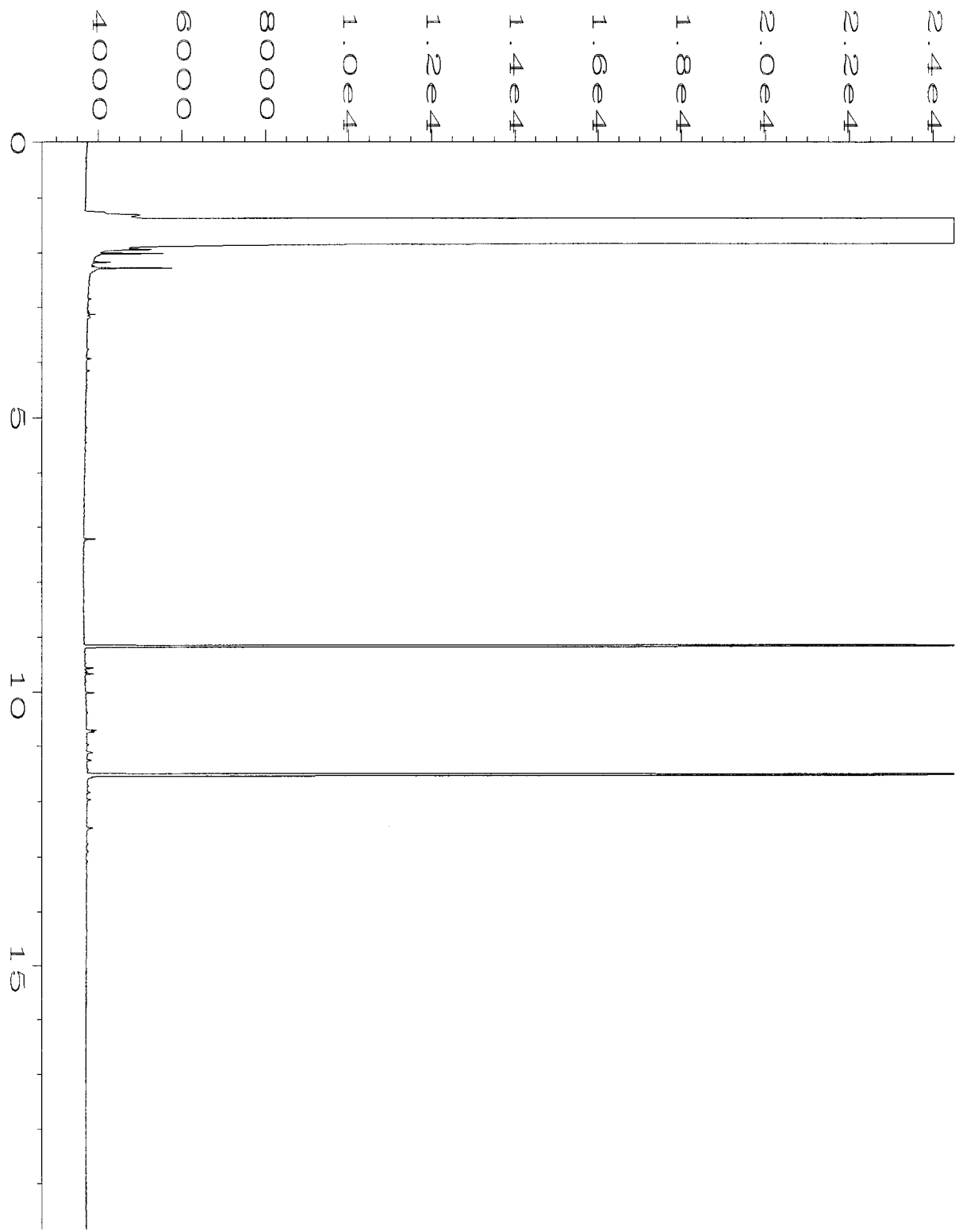
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\029F0701.D	Page Number	: 1
Operator	: ML	Vial Number	: 29
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-18	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 07:26 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:57 AM		



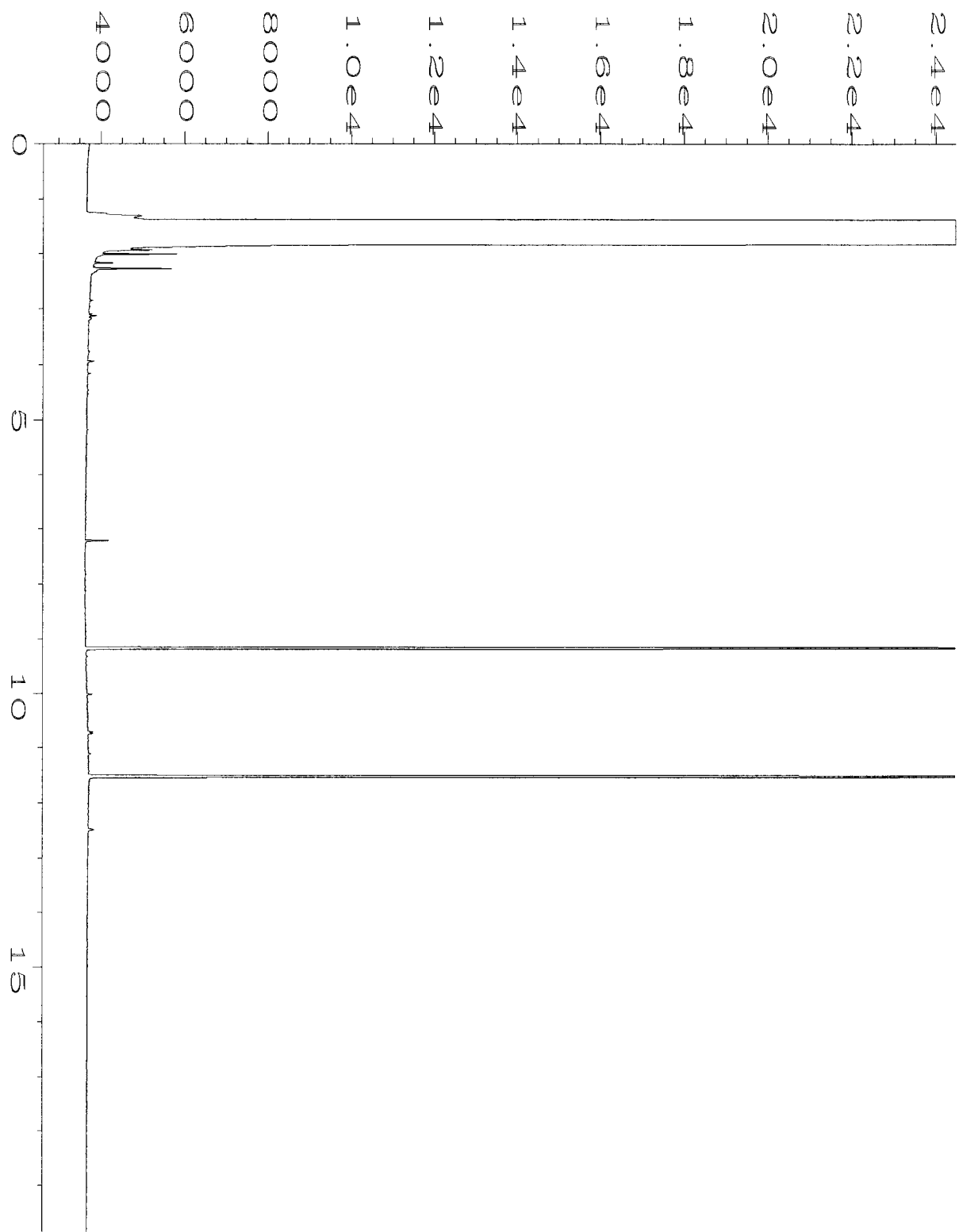
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Operator	: ML	Vial Number	: 30
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-19	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 07:53 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:57 AM		



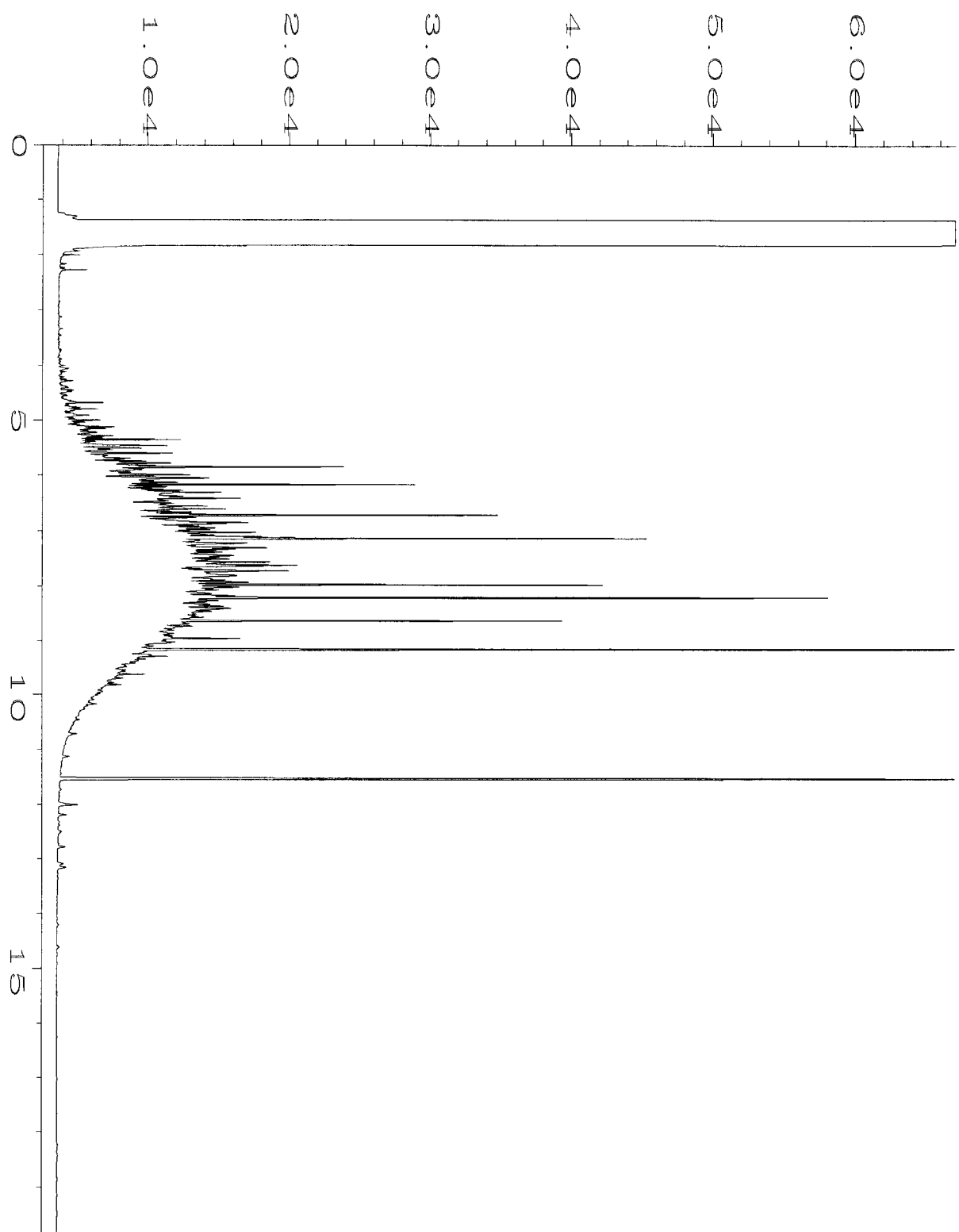
Data File Name	: C:\HPCHEM\1\DATA\04-08-11\031F0701.D	Page Number	: 1
Operator	: ML	Vial Number	: 31
Instrument	: GC1	Injection Number	: 1
Sample Name	: 104047-20	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 08 Apr 11 08:20 PM	Analysis Method	: TPHD.MTH
Report Created on:	11 Apr 11 08:58 AM		



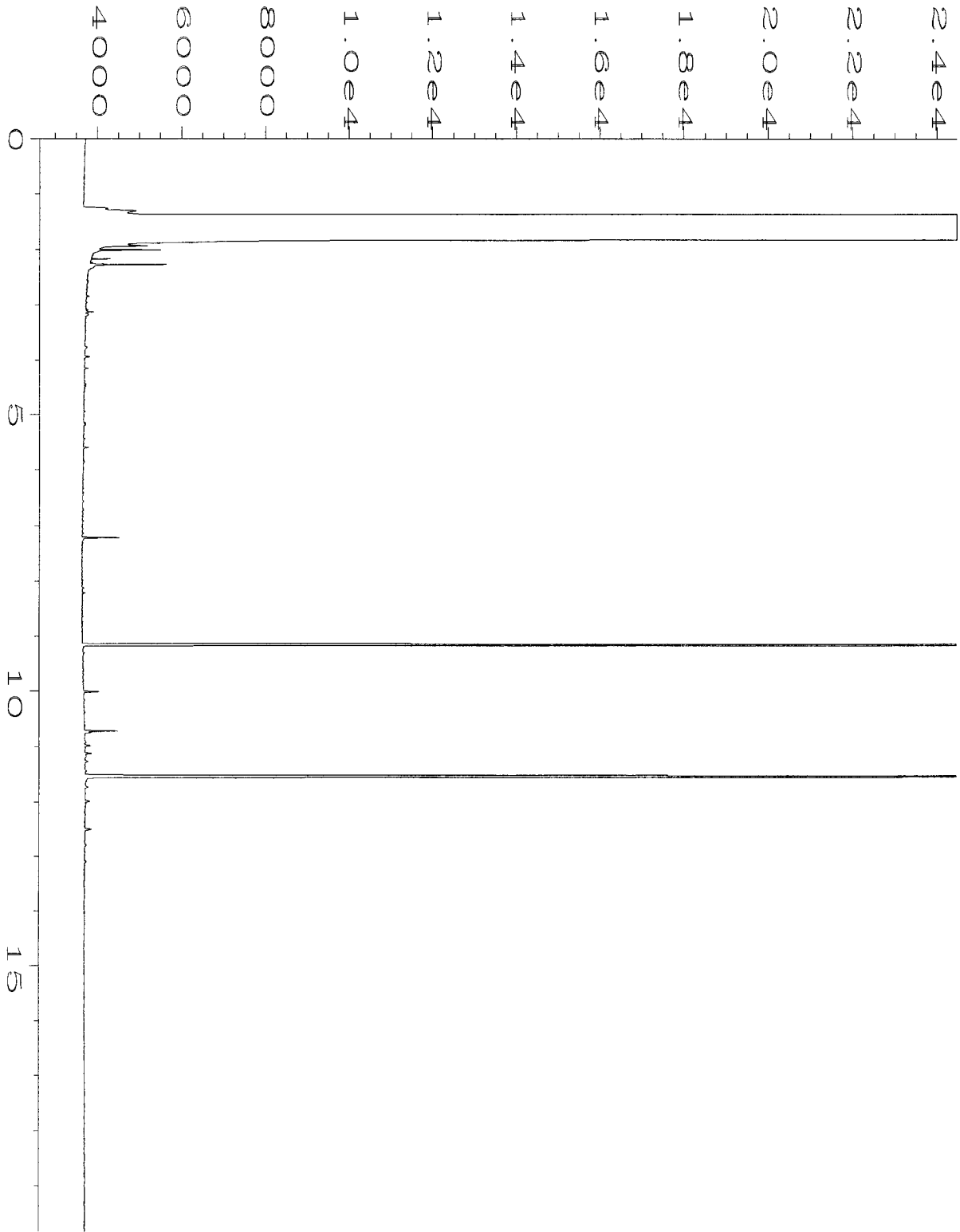
Data File Name	: C:\HPCHEM\4\DATA\04-07-11\026F0601.D	Page Number	: 1
Operator	: ML	Vial Number	: 26
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 104047-21	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 07 Apr 11 06:19 PM	Analysis Method	: TPHD.MTH
Report Created on:	08 Apr 11 08:59 AM		



Data File Name	: C:\HPCHEM\4\DATA\04-07-11\027F0601.D	Page Number	: 1
Operator	: ML	Vial Number	: 27
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 104047-22	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 07 Apr 11 06:45 PM	Analysis Method	: TPHD.MTH
Report Created on:	08 Apr 11 08:59 AM		



Data File Name	: C:\HPCHEM\4\DATA\04-07-11\028F0601.D	Page Number	: 1
Operator	: ML	Vial Number	: 28
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 104047-23	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 07 Apr 11 07:12 PM	Analysis Method	: TPHD.MTH
Report Created on:	08 Apr 11 08:59 AM		



Data File Name	: C:\HPCHEM\4\DATA\04-07-11\029F0601.D	Page Number	: 1
Operator	: ML	Vial Number	: 29
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 104047-24	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	TPHD.MTH
Acquired on	: 07 Apr 11 07:38 PM	Analysis Method	: TPHD.MTH
Report Created on:	08 Apr 11 08:59 AM		

104047

SAMPLE CHAIN OF CUSTODY

ME 04/06/11

C05

Send Report To Erin Ruthman

Company SES

Address 2811 Farrow Ave East Suite 2000

City, State, ZIP Seattle WA 98102

Phone # 206-306-1900 Fax # 206-306-1907

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME/NO. <u>0761</u>	PO #
REMARKS	GEMS Y / N

Page # 1 of 2

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED						Notes	
								NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals		
P06-04	P06	04	01	4-5-11	0820	Sol	1	X							
P06-07		07	02		0825		1	X							
P06-11		11	03		0830		1	X							
P07-04	4/6 P07	04	04		0845		1	X							
P07-07		07	05		0850		1	X							
P07-11		11	06		0855		1	X							
P08-04	P08	04	07		0905		1	X							
P08-07		07	08		0910		1	X							
P08-11		11	09		0915		1	X							
P09-04	P09	04	10		0935		1	X							
P09-07		07	11		0940		1	X							
P09-11		11	12		0945		1	X							
P10-04	P10	04	13		1005		1	X							

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>Robert A. Harberg</u>	<u>SES</u>	<u>4-6-11</u>	<u>0915</u>
Received by: <u>[Signature]</u>	<u>Nhan Pham</u>	<u>FEBT</u>	<u>4/6/11</u>	<u>V</u>
Relinquished by:				
Received by:				

Samples received: 2

104047

SAMPLE CHAIN OF CUSTODY

ME 04/06/11 005

Send Report To _____

Company _____

Address _____

City, State, ZIP _____

Phone # _____ Fax # _____

SAMPLERS (signature) *[Signature]*

PROJECT NAME/NO. 0761

PO # _____

REMARKS _____

GEMS Y / N _____

Page # 2 of 2

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED						Notes	
								NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals		
P10-07	P10	07	14	4-5-11	1010	Soil	1	X							
P10-10		10	15		1015		1	X							
P11-04	P11	04	16		1200		1	X							
P11-07		07	17		1205		1	X							
P11-10		10	18		1210		1	X							
P12-04	P12	04	19		1245		1	X							
P12-06		06	20		1250		1	X							
P12-11		11	21		1255		1	X							
P13-04	P13	04	22		1350		1	X							
P13-06		06	23		1355		1	X							
P13-11		11	24		1400		1	X							

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>[Signature]</i>	Robert A. Handberg	SRS	4/6/11	0915
Received by: <i>[Signature]</i>	Nhan Phan	FBI	4/6/11	0915
Relinquished by:				
Received by:				

Samples received at: 2 °C

ATTACHMENT C
UCL STATISTICAL ANALYSIS

General UCL Statistics for Data Sets with Non-Detects

User Selected Options
 From File C:\Documents and Settings\mselman\Desktop\SOU_0761.wst
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

Diesel

General Statistics			
Number of Valid Data	25	Number of Detected Data	4
Number of Distinct Detected Data	4	Number of Non-Detect Data	21
		Percent Non-Detects	84.00%
Raw Statistics		Log-transformed Statistics	
Minimum Detected	160	Minimum Detected	5.075
Maximum Detected	3000	Maximum Detected	8.006
Mean of Detected	1915	Mean of Detected	7.108
SD of Detected	1333	SD of Detected	1.386
Minimum Non-Detect	50	Minimum Non-Detect	3.912
Maximum Non-Detect	50	Maximum Non-Detect	3.912

Warning: There are only 4 Distinct Detected Values in this data
Note: It should be noted that even though bootstrap may be performed on this data set the resulting calculations may not be reliable enough to draw conclusions

It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.

UCL Statistics

Normal Distribution Test with Detected Values Only

Shapiro Wilk Test Statistic
 5% Shapiro Wilk Critical Value

Data appear Normal at 5% Significance Level

Assuming Normal Distribution

DL/2 Substitution Method

Mean
 SD
 95% DL/2 (t) UCL

Maximum Likelihood Estimate(MLE) Method
 MLE yields a negative mean

Lognormal Distribution Test with Detected Values Only

0.884 Shapiro Wilk Test Statistic
 0.748 5% Shapiro Wilk Critical Value

Data appear Lognormal at 5% Significance Level

Assuming Lognormal Distribution

DL/2 Substitution Method

327.4 Mean
 849.7 SD
 618.2 95% H-Stat (DL/2) UCL

N/A Log ROS Method
 Mean in Log Scale 1.95
 SD in Log Scale 3.334
 Mean in Original Scale 323
 SD in Original Scale 852
 95% t UCL 614.5
 95% Percentile Bootstrap UCL 616.2
 95% BCA Bootstrap UCL 671
 95% H-UCL 125715

Gamma Distribution Test with Detected Values Only

k star (bias corrected) 0.48
 Theta Star 3991
 nu star 3.839

Data Distribution Test with Detected Values Only

0.48 Data appear Normal at 5% Significance Level

A-D Test Statistic

0.53

Nonparametric Statistics

5% A-D Critical Value	0.664	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.664	Mean	440.8
5% K-S Critical Value	0.401	SD	791.8
Data appear Gamma Distributed at 5% Significance Level		SE of Mean	182.9
		95% KM (t) UCL	753.7
Assuming Gamma Distribution		95% KM (z) UCL	741.6
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	1339
Minimum	1.00E-06	95% KM (bootstrap t) UCL	591.7
Maximum	3000	95% KM (BCA) UCL	2912
Mean	306.4	95% KM (Percentile Bootstrap) UCL	2908
Median	1.00E-06	95% KM (Chebyshev) UCL	1238
SD	857.5	97.5% KM (Chebyshev) UCL	1583
k star	0.0739	99% KM (Chebyshev) UCL	2260
Theta star	4145		
Nu star	3.696	Potential UCLs to Use	
AppChi2	0.605	95% KM (t) UCL	753.7
95% Gamma Approximate UCL	1871	95% KM (Percentile Bootstrap) UCL	2908
95% Adjusted Gamma UCL	N/A		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). For additional insight, the user may want to consult a statistician.