Weiss Associates *Environmental and Geologic Services*

5801 Christie Avenue, Suite 600, Emeryville, CA 94608-1827 *Fax: 510-547-5043* ***Phone: 510-450-6000***

November 29, 1999

Barney M. Chan
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Well Installation and Sampling**
Simpson Property
489 43rd Street
Oakland, California
WA Job No. 138-1231-02

Dear Mr. Chan:

Weiss Associates (WA) is pleased to present you the results for the well installation conducted in October and November 1999 at the site located at 489 43rd Street (Figure 1). As outlined in WA's September 1, 1999 workplan, the objectives were to install one ground water monitoring well and collect soil and ground water samples to assess the presence of contamination in soil and ground water at the site. WA's scope of work and the results of this investigation are presented below.

SCOPE OF WORK

WA's scope of work for this investigation was to:

1. Prepare a site safety plan;
2. Identify all underground utilities in the vicinity of the soil borings;
3. Obtain a well construction permit from the Alameda County Public Works Agency (ACPWA).
4. Drill one, 8-inch diameter soil boring to approximately 20 feet total depth and collect soil samples at five foot intervals for lithologic description and chemical analysis;
5. Complete the boring as 2-inch diameter ground water monitoring well;

6. Develop the monitoring well;

7. Survey the top-of-casing elevation of the new well;

8. Arrange for soil and water disposal;

9. Prepare a Well Installation Report;

10. Conduct quarterly monitoring; and

11. Prepare quarterly reports.

This report addresses tasks 1 through 9. Tasks 10 and 11, quarterly ground water monitoring and reporting, will be addressed in a separate report.

Site Summary

The subject property is located at 489 43rd Street in Oakland, California (Figure 1). The subject site consists of a commercial building occupying a corner lot (Figure 2). The building is adjacent to the sidewalk on 43rd Street and has a frontage on Telegraph Avenue. The presumed direction of ground water flow is to the south-southwest.

A former underground storage tank (UST) was located under the north sidewalk of 489 43rd Street, about 90 feet east of the intersection of 43rd Street and Telegraph Avenue in Oakland. The UST was removed by Accutite Environmental Engineering in September 1995. Laboratory analysis of soil samples collected from beneath the UST detected maximum concentrations of 1,900 parts per million (ppm) Total Petroleum Hydrocarbons as Gasoline (TPH-G), 1,300 ppm Total Petroleum Hydrocarbons as Diesel (~~TPH-D~~), 0.2 ppm benzene, 0.46 ppm toluene, 17 ppm ethyl benzene, 48 ppm total xylenes, and 1,300 ppm methyl tertiary-butyl ether (MTBE).

There is also a reported release from the former USTs located at 490 43rd Street, across the street and upgradient of the subject site. The 490 43rd Street USTs reportedly contained gasoline and paint thinner. Three ground water monitoring wells were installed at the 490 43rd Street site in 1993. TPH-G, Total Petroleum Hydrocarbons as Paint Thinner (TPH-PT), and BTEX have been detected in ground water samples from all three wells. A fourth well was requested by ACHCSA, so MW-4 was installed on July 23, 1999. Figure 2 shows the arrangement of the subject site and the one across the street.

On May 29, 1998, WA drilled one borehole (SB-01) on the down-gradient side of the subject site's former UST location and advanced the borehole to a total depth of 12 feet below ground surface (bgs). The soil sample was reported to have no concentrations of COCs above the laboratory-reporting limit. The ground water sample was reported to have a TPH-G concentration of 18,000 parts per billion (ppb), a benzene concentration of 2,400 ppb, a TPH-PT concentration of 8,800 ppb, and an MTBE concentration of <350 ppb. The laboratory indicated that the TPH-G and TPH-PT results included a large fraction of an unmodified or weakly modified gasoline. Due to the

interference from the TPH-G concentration, the laboratory had to raise the MTBE reporting limit to 350 ppb.

Following this investigation, the ACHCSA requested a follow-up ground water investigation workplan to install a permanent monitoring well at the subject site in the rear driveway behind the building per the ACHCSA letter dated September 14, 1999. This report details the well installation conducted in accordance with the WA September 1, 1999 workplan.

Well Installation

On October 29, 1999, WA conducted a subsurface investigation at the site and installed ground water monitoring well MWA-1 (Figure 2). The well was located in the courtyard area of the building on-site downgradient of the former UST.

Permits and Utility Clearance

Prior to the investigation, WA obtained well construction permit number 99WR595 from the Alameda County Public Works Agency. This permit is presented in Attachment A.

Underground Service Alert cleared the site and NORCAL geophysical consultants cleared the selected boring location prior to the start of drilling.

Drilling

The work was performed by Gregg Drilling and Testing Inc., of Martinez, California, under the supervision of Geologists Joyce Adams and Maile Smith. The boring was drilled using an 8-inch diameter hollow stem auger to a total depth of 20 feet below ground surface (ft bgs). Soil samples were collected every 5 feet, and drill cuttings were placed in three 55-gallon drums.

Lithology Encountered

Descriptions of the lithology observed while drilling the boreholes are presented in the attached boring log (Attachment B). Soils from the borehole were composed of sandy silt and silty sand to 5 ft bgs, underlain by silty clay to 10 ft bgs. Gravelly sand was encountered from 10 ft bgs to 15 ft bgs, followed by a range of clayey silt to sandy silt to a depth of 20.2 ft bgs. Gravelly sand was encountered from 20.2 ft bgs to the final boring depth of 21.6 ft bgs

Soil Analyses

The soil sample to be analyzed was selected based on the highest photoionization detector (PID) reading collected in the field. The soil sample at 16 ft bgs had the highest PID reading and therefore was selected to be analyzed for Total Petroleum Hydrocarbons (TPH) as Gasoline (G), Diesel (D) and Paint Thinner (PT) by EPA Method 8015 modified; benzene, toluene, ethyl benzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8020; and, total lead by EPA Method 6010. As shown in Attachment C, no analytes were detected in the soil sample analyzed.

Well Construction

The borehole was completed as a two-inch diameter ground water monitoring well. The well was constructed using 2-inch diameter schedule 40 PVC well casing with 0.010-inch slotted screen and #2/16 sand. The well was screened from 10 to 20 ft bgs. Well construction details are included with the boring log, which is presented as Attachment B.

Well Development, Flow Rate and Water Sampling

The well was developed on November 2, 1999 using surge block agitation and bailer excavation. The final development flow rate of the well was about 0.14 gallons per minute (gpm). The ground water sample collected during well development reported the following contaminant levels: 380 µg/L TPH-G, 0.77 µg/L benzene, 3.5 µg/L toluene, 2.1 µg/L ethyl benzene, 1.6 µg/L xylenes and 240 µg/L paint thinner. Results of the ground water sampling after the well development are in Table 1. TPH-D, MTBE and lead were non-detect for the sample. The paint thinner is believed to be a result of past activities involving a paint thinner tank located at the site across the street. BTEX results were below California Department of Health Services maximum concentration levels.

Well Survey

The top-of-casing elevation of the well will be surveyed by a licensed land surveyor and the survey report will be presented as an addendum to this report.

Ground Water Depth and Flow Direction

Ground water was encountered at a depth of 12.89 ft bgs. Based on groundwater elevation data for an adjacent site, ground water flows to the south-southwest.

Waste Disposal

The composite soil sample from the drums of soil cuttings was analyzed for waste disposal purposes for TPH-G and -D by EPA Method 8015 modified; BTEX by EPA Method 8020; and, total lead by EPA Method 6010. As shown in Attachment C, the only analyte detected in the soil sample was lead at a level of 8.2 mg/kg, well below the California hazardous waste Total Threshold Limit Concentration of 1,000 mg/kg.

Drummed soil and purge water from well development and sampling will be transported by Integrated Wastestream Management, of Milpitas, California, to an appropriate non-hazardous waste facility, for disposal.

Please call us if you have any questions regarding this report.

Sincerely,
Weiss Associates

Melissa Chamberlain
Senior Staff Engineer

Mary Stallard, C.E.G.
Senior Project Manager

Attachments: Figure 1 - Site Location Map
Figure 2 - Monitoring Well Location

Table 1 - Soil and Ground Water Sampling and Analyses

A - Permits
B - Boring Logs
C - Analytic Reports and Chain-of-Custody Forms

MJZ:mjc
J:\BUCATE\reports\1999\rpt.DOC

Figure 1 Site Location - 489 43rd Street, Oakland, California

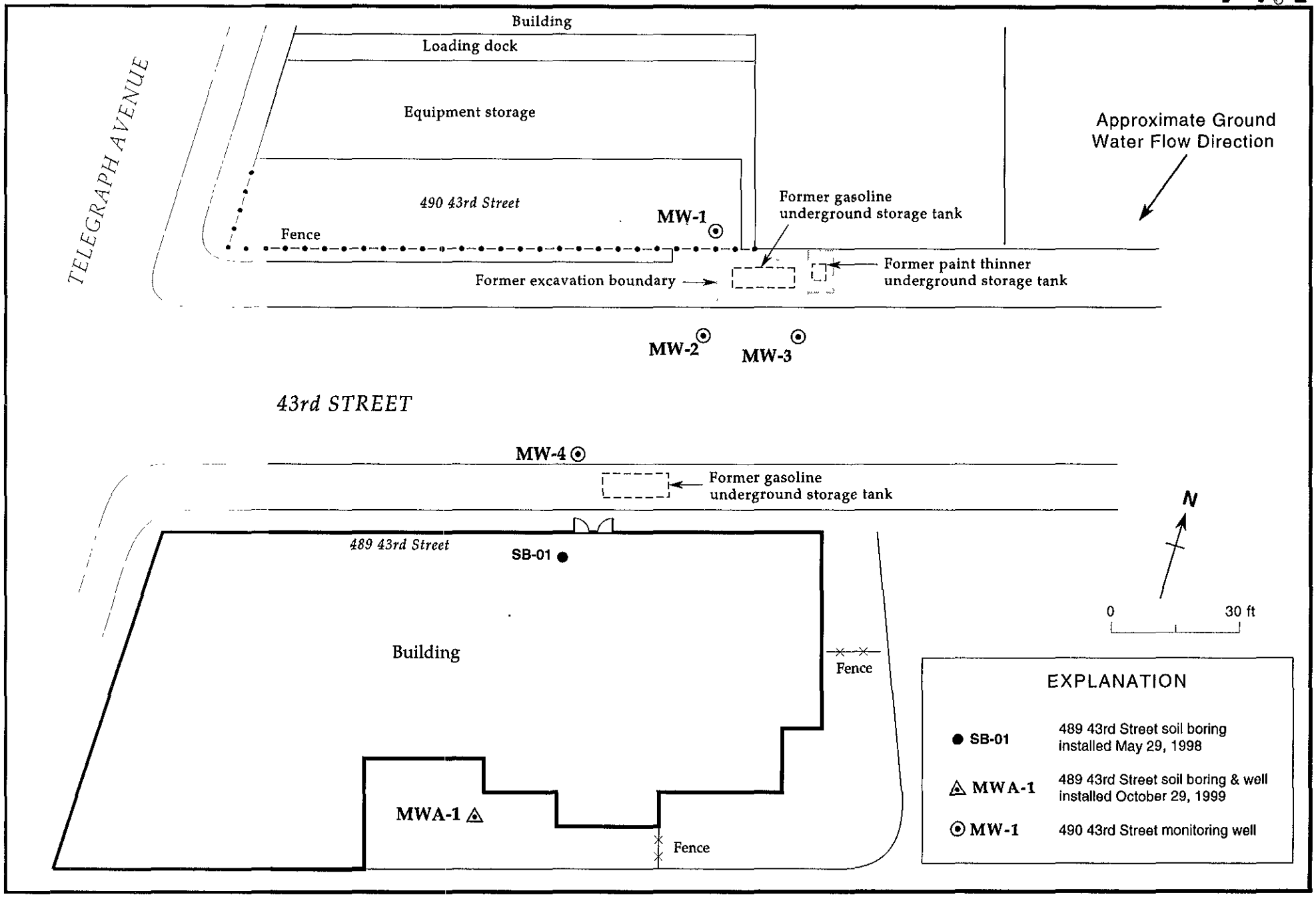


Figure 2 Well Location - 489 43rd Street, Oakland, California

Table 1. Soil and Ground Water Sampling and Analyses
Monitoring Well Installation on October 29, 1999, 489 43rd Street, Bucate Plata

Sample ID	Date	Matrix Sampled	TPH-D	TPH-G	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Lead	Paint Thinner
MWA 16	10/29/99	Soil	ND	ND	ND	ND	ND	ND	ND	ND	ND
D1&D2	10/29/99	Soil	ND	ND	ND	ND	ND	ND	NA	8.2 mg/kg	NA
Detection Limit		Soil	1 mg/kg	1 mg/kg	0.0050 mg/kg	0.0050 mg/kg	0.0050 mg/kg	0.0050 mg/kg	0.0050 mg/kg	5.0 mg/kg	1 mg/kg
1199A	11/2/99	Water	ND	380 µg/l*	0.77 µg/l	3.5 µg/l	2.1 µg/l	1.6 µg/l	ND	ND	240 µg/l*
1199B	11/2/99	Water	ND	ND	ND	ND	ND	ND	ND	ND	ND
Detection Limit		Water	50 µg/L	50 µg/L	0.50 µg/L	0.50 µg/L	0.50 µg/L	0.50 µg/L	5.0 µg/L	0.0050 mg/L	50 µg/L
Maximum Concentration Level (set by the California Dept of Health Services)			Not available	Not available	1 µg/L	150 µg/L	700 µg/L	1750 µg/L	Not available	15 µg/L	Not available

Legend

Gasoline and paint thinner did not meet respective calibration standards.
Sample ID MWA-16 soil sample collected at 16 ft bgs.
D1 & D2 composite soil sample taken from drums of investigation-derived waste, collected for waste disposal purposes.
1199A ground water sample collected during well development
1199B trip blank sample
ND = at or below laboratory detection limit.
TPH-D = total petroleum hydrocarbons as diesel
TPH-G = total petroleum hydrocarbons as gasoline

ATTACHMENT A

PERMITS

ALAMEDA COUNTY PUBLIC WORKS AGENCY

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

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 489 43rd Street
Oakland, CA

CLIENT
Name Ronn Simpson
Address P.O. Box 3090 Phone (510) 841-3727
City Berkeley, CA Zip 94703

APPLICANT
Name Weiss Associates
Fax (510) 547-5043
Address 5321 Chiles Ave. Phone (510) 450-6075
City Emeryville, CA Zip 94608-1827

TYPE OF PROJECT

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

PROPOSED WATER SUPPLY WELL USE

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

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☑
Cable	☐	Other	☐		

DRILLER'S LICENSE NO. C57 # 485165

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 30 ft.
Surface Seal Depth 6 ft. Number 1

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

ESTIMATED STARTING DATE 10/13/99
ESTIMATED COMPLETION DATE 1/15/99

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

APPLICANT'S SIGNATURE [signature] DATE 10/6/99
for Weiss Associates

FOR OFFICE USE

PERMIT NUMBER 99WR-545
WELL NUMBER
APN

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

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

(C.) GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

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

F. WELL DESTRUCTION
See attached.

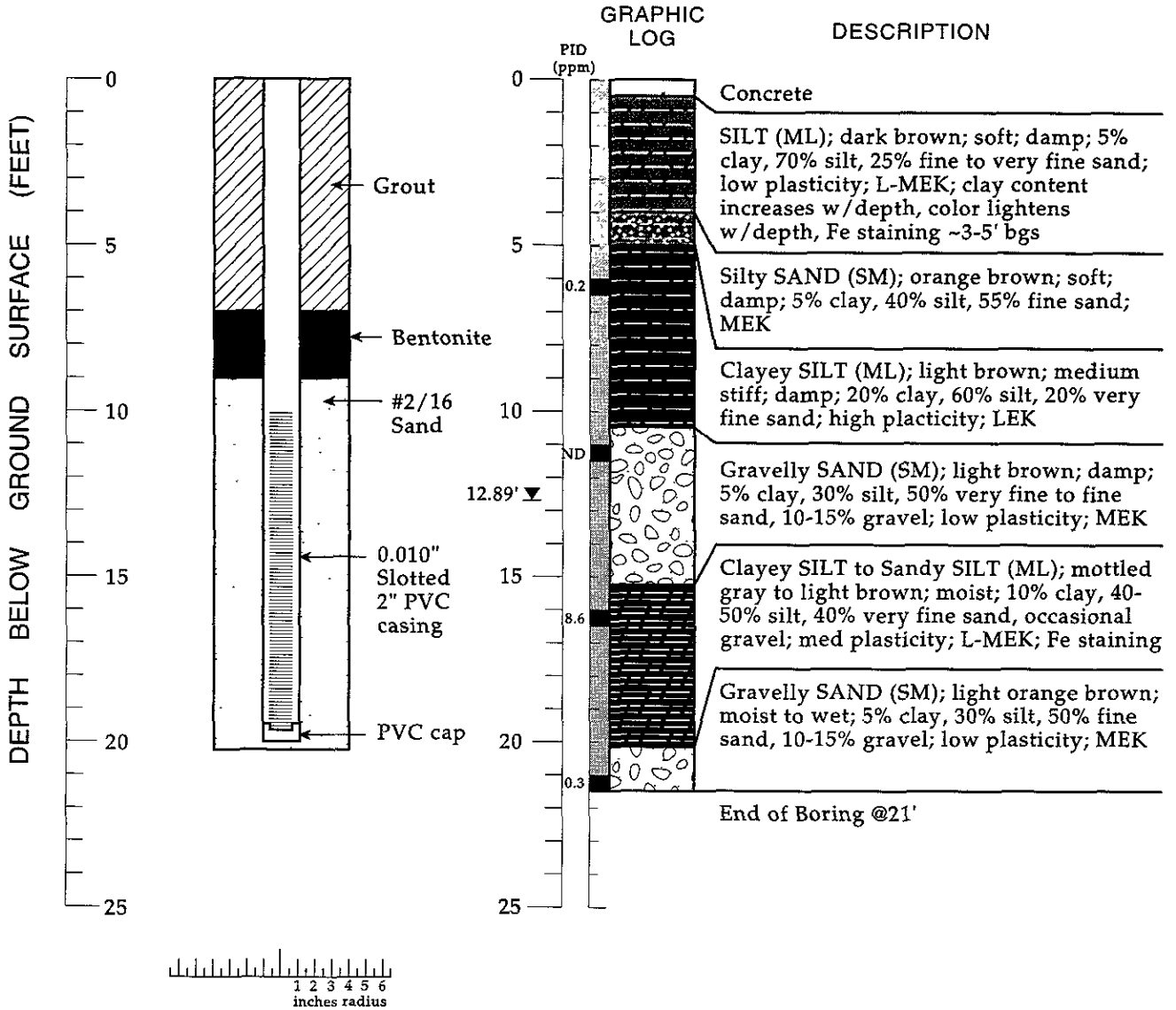
G. SPECIAL CONDITIONS

APPROVED [signature] DATE

ATTACHMENT B

BORING LOG

MWA-1



EXPLANATION

- Water level during well development (11/2/99)
- Contact (dotted where approximate)
- Uncertain contact
- Gradational contact
- Location of recovered core
- Location of core sample sealed for chemical analysis
- EK = Estimated hydraulic conductivity, L= low, M= moderate, H= high
- PID = Photoionization detector
- PPM = Parts per million

Logged By:	L.M. Smith
Supervisor:	Mary Stallard, CEG #1704
Drilling Company:	Gregg Drilling, Martinez, CA
License Number:	C-57107979
Driller:	Rich
Drilling Method:	HSA
Date Drilled:	October 29, 1999
Well Head Completion:	N/A
Type of Sampler:	Split Spoon
Ground Surface Elevation:	Not available

Figure 1 Boring Log and Well Construction Details—Well MWA-1 489 43rd Street, Oakland, California

ATTACHMENT C

LABORATORY RESULTS AND CHAIN-OF-CUSTODY FORMS

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 1999-10-0535
Date: November 8, 1999

Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608

Attn.: Ms. Melissa Chamberlain

Project: 138-1231-02
489 43rd St.

Dear Ms. Chamberlain,

Attached is our report for your samples received on Friday October 29, 1999. This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after November 28, 1999 unless you have requested otherwise. We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

Sincerely,

Afsaneh Salimpour

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0535

Total Extractable Petroleum Hydrocarbons (TEPH)

Weiss Associates

5500 Shellmound Street
Emeryville, CA 94608

Attn: Melissa Chamberlain

Phone: (510) 450-6000 Fax: (510) 547-5043

Project #: 138-1231-02

Project: 489 43rd St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MWA-1@16.0	Soil	10/29/1999	1

To: **Weiss Associates**
Attn.: Melissa Chamberlain

Test Method: 8015M
Prep Method: 3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**MWA-1@16.0**	Lab Sample ID:	**1999-10-0535-001**
Project:	138-1231-02 489 43rd St.	Received:	10/29/1999 15:28
		Extracted:	11/01/1999 09:00
Sampled:	10/29/1999	QC-Batch:	1999/11/01-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/02/1999 11:05	
Paint Thinner	ND	1.0	mg/Kg	1.00	11/02/1999 11:05	
Surrogate(s)						
o-Terphenyl	100.3	60-130	%	1.00	11/02/1999 11:05	

To: **Weiss Associates**
Attn.: Melissa Chamberlain

Test Method: 8015M
Prep Method: 3550/8015M

Batch QC Report
Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank **Soil** **QC Batch # 1999/11/01-01.10**

MB: 1999/11/01-01.10-001 Date Extracted: 11/01/1999 08:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	11/01/1999 11:39	
Paint Thinner	ND	1	mg/Kg	11/01/1999 11:39	
Surrogate(s)					
o-Terphenyl	99.0	60-130	%	11/01/1999 11:39	

To: **Weiss Associates** Test Method: 8015M

Attn: Melissa Chamberlain Prep Method: 3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 1999/11/01-01.10**

LCS: 1999/11/01-01.10-002 Extracted: 11/01/1999 08:00 Analyzed: 11/01/1999 10:28

LCSD: 1999/11/01-01.10-003 Extracted: 11/01/1999 08:00 Analyzed: 11/01/1999 11:37

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	25.0	29.6	41.7	41.7	60.0	71.0	16.8	60-130	25		
Surrogate(s)											
o-Terphenyl	18.7	20.1	20.0	20.0	93.5	100.5		60-130			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0535

Diesel

Weiss Associates	☒ 5500 Shellmound Street Emeryville, CA 94608
Attn: Melissa Chamberlain	Phone: (510) 450-6000 Fax: (510) 547-5043
Project #: 138-1231-02	Project: 489 43rd St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
D1 & D2	Soil	10/29/1999	5

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0535

To: **Weiss Associates**
Attn.: Melissa Chamberlain

Test Method: 8015m
Prep Method: 3550/8015M

Diesel

Sample ID:	**D1 & D2**	Lab Sample ID:	**1999-10-0535-005**
Project:	138-1231-02 489 43rd St.	Received:	10/29/1999 15:28
		Extracted:	11/01/1999 09:00
Sampled:	10/29/1999	QC-Batch:	1999/11/01-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/02/1999 11:42	
Surrogate(s)						
o-Terphenyl	101.7	60-130	%	1.00	11/02/1999 11:42	

To: **Weiss Associates**
Attn.: Melissa Chamberlain

Test Method: 8015m
Prep Method: 3550/8015M

Batch QC Report
Diesel

Method Blank | **Soil** | **QC Batch # 1999/11/01-01.10**

MB: 1999/11/01-01.10-001 | Date Extracted: 11/01/1999 08:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	11/01/1999 11:39	
Surrogate(s)					
o-Terphenyl	99.0	60-130	%	11/01/1999 11:39	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0535

To: **Weiss Associates**
Attn: Melissa Chamberlain

Test Method: 8015m
Prep Method: 3550/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 1999/11/01-01.10**

LCS: 1999/11/01-01.10-002 Extracted: 11/01/1999 08:00 Analyzed: 11/01/1999 10:28
LCSD: 1999/11/01-01.10-003 Extracted: 11/01/1999 08:00 Analyzed: 11/01/1999 11:37

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	25.0	29.6	41.7	41.7	60.0	71.0	16.8	60-130	25		
Surrogate(s)											
o-Terphenyl	18.7	20.1	20.0	20.0	93.5	100.5		60-130			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0535

Gas/BTEX

Weiss Associates

5500 Shellmound Street
Emeryville, CA 94608

Attn: Melissa Chamberlain

Phone: (510) 450-6000 Fax: (510) 547-5043

Project #: 138-1231-02

Project: 489 43rd St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
D1 & D2	Soil	10/29/1999	5

To: **Weiss Associates**

Attn.: Melissa Chamberlain

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX

Sample ID:	**D1 & D2**	Lab Sample ID:	**1999-10-0535-005**
Project:	138-1231-02 489 43rd St.	Received:	10/29/1999 15:28
		Extracted:	11/08/1999 08:26
Sampled:	10/29/1999	QC-Batch:	1999/11/08-01.04
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	11/08/1999 08:26	
Benzene	ND	0.0050	mg/Kg	1.00	11/08/1999 08:26	
Toluene	ND	0.0050	mg/Kg	1.00	11/08/1999 08:26	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/08/1999 08:26	
Xylene(s)	ND	0.0050	mg/Kg	1.00	11/08/1999 08:26	
Surrogate(s)						
Trifluorotoluene	68.9	53-125	%	1.00	11/08/1999 08:26	
4-Bromofluorobenzene-FID	63.5	58-124	%	1.00	11/08/1999 08:26	

To: **Weiss Associates**

Attn.: Melissa Chamberlain

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank | **Soil** | **QC Batch # 1999/11/08-01.04**

MB: 1999/11/08-01.04-001

Date Extracted: 11/08/1999 04:23

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	11/08/1999 04:23	
Benzene	ND	0.0050	mg/Kg	11/08/1999 04:23	
Toluene	ND	0.0050	mg/Kg	11/08/1999 04:23	
Ethyl benzene	ND	0.0050	mg/Kg	11/08/1999 04:23	
Xylene(s)	ND	0.0050	mg/Kg	11/08/1999 04:23	
Surrogate(s)					
Trifluorotoluene	76.2	53-125	%	11/08/1999 04:23	
4-Bromofluorobenzene-FID	79.2	58-124	%	11/08/1999 04:23	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0535

To: **Weiss Associates**

Test Method: 8020
8015M

Attn: Melissa Chamberlain

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 1999/11/08-01.04**

LCS: 1999/11/08-01.04-002 Extracted: 11/08/1999 04:51 Analyzed: 11/08/1999 04:51

LCSD: 1999/11/08-01.04-003 Extracted: 11/08/1999 05:18 Analyzed: 11/08/1999 05:18

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	0.561	0.534	0.500	0.500	112.2	106.8	4.9	75-125	35		
Benzene	0.104	0.0835	0.1000	0.1000	104.0	83.5	21.9	77-123	35		
Toluene	0.105	0.0851	0.1000	0.1000	105.0	85.1	20.9	78-122	35		
Ethyl benzene	0.106	0.0864	0.1000	0.1000	106.0	86.4	20.4	70-130	35		
Xylene(s)	0.305	0.251	0.300	0.300	101.7	83.7	19.4	75-125	35		
Surrogate(s)											
Trifluorotoluene	408	319	500	500	81.6	63.8		53-125			
4-Bromofluorobenzene-FI	440	417	500	500	88.0	83.4		58-124			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0535

Gas/BTEX and MTBE

Weiss Associates

5500 Shellmound Street
Emeryville, CA 94608

Attn: Melissa Chamberlain

Phone: (510) 450-6000 Fax: (510) 547-5043

Project #: 138-1231-02

Project: 489 43rd St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MWA-1@16.0	Soil	10/29/1999	1

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0535

To: **Weiss Associates**

Attn.: Melissa Chamberlain

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MWA-1@16.0**	Lab Sample ID:	**1999-10-0535-001**
Project:	138-1231-02 489 43rd St.	Received:	10/29/1999 15:28
		Extracted:	11/08/1999 07:59
Sampled:	10/29/1999	QC-Batch:	1999/11/08-01.04
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	11/08/1999 07:59	
Benzene	ND	0.0050	mg/Kg	1.00	11/08/1999 07:59	
Toluene	ND	0.0050	mg/Kg	1.00	11/08/1999 07:59	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/08/1999 07:59	
Xylene(s)	ND	0.0050	mg/Kg	1.00	11/08/1999 07:59	
MTBE	ND	0.0050	mg/Kg	1.00	11/08/1999 07:59	
Surrogate(s)						
Trifluorotoluene	64.9	53-125	%	1.00	11/08/1999 07:59	
4-Bromofluorobenzene-FID	63.3	58-124	%	1.00	11/08/1999 07:59	

To: **Weiss Associates**

Attn.: Melissa Chamberlain

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Soil** | **QC Batch # 1999/11/08-01.04**

MB: 1999/11/08-01.04-001

Date Extracted: 11/08/1999 04:23

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	11/08/1999 04:23	
Benzene	ND	0.0050	mg/Kg	11/08/1999 04:23	
Toluene	ND	0.0050	mg/Kg	11/08/1999 04:23	
Ethyl benzene	ND	0.0050	mg/Kg	11/08/1999 04:23	
Xylene(s)	ND	0.0050	mg/Kg	11/08/1999 04:23	
MTBE	ND	0.0050	mg/Kg	11/08/1999 04:23	
Surrogate(s)					
Trifluorotoluene	76.2	53-125	%	11/08/1999 04:23	
4-Bromofluorobenzene-FID	79.2	58-124	%	11/08/1999 04:23	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0535

To: **Weiss Associates**

Attn: Melissa Chamberlain

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 1999/11/08-01.04**

LCS: 1999/11/08-01.04-002 Extracted: 11/08/1999 04:51 Analyzed: 11/08/1999 04:51

LCSD: 1999/11/08-01.04-003 Extracted: 11/08/1999 05:18 Analyzed: 11/08/1999 05:18

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	0.561	0.534	0.500	0.500	112.2	106.8	4.9	75-125	35		
Benzene	0.104	0.0835	0.1000	0.1000	104.0	83.5	21.9	77-123	35		
Toluene	0.105	0.0851	0.1000	0.1000	105.0	85.1	20.9	78-122	35		
Ethyl benzene	0.106	0.0864	0.1000	0.1000	106.0	86.4	20.4	70-130	35		
Xylene(s)	0.305	0.251	0.300	0.300	101.7	83.7	19.4	75-125	35		
Surrogate(s)											
Trifluorotoluene	408	319	500	500	81.6	63.8		53-125			
4-Bromofluorobenzene-FI	440	417	500	500	88.0	83.4		58-124			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0535

Total Lead

Weiss Associates	✉ 5500 Shellmound Street Emeryville, CA 94608
Attn: Melissa Chamberlain	Phone: (510) 450-6000 Fax: (510) 547-5043
Project #: 138-1231-02	Project: 489 43rd St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MWA-1@16.0	Soil	10/29/1999	1
D1 & D2	Soil	10/29/1999	5

To: **Weiss Associates**
Attn.: Melissa Chamberlain

Test Method: 6010B
Prep Method: 3050B

Total Lead

Sample ID:	**MWA-1@16.0**	Lab Sample ID:	**1999-10-0535-001**
Project:	138-1231-02 489 43rd St.	Received:	10/29/1999 15:28
		Extracted:	11/01/1999 09:16
Sampled:	10/29/1999	QC-Batch:	1999/11/01-02.15
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	5.0	mg/Kg	1.00	11/01/1999 13:15	

To: **Weiss Associates**
Attn.: Melissa Chamberlain

Test Method: 6010B
Prep Method: 3050B

Total Lead

Sample ID:	**D1 & D2**	Lab Sample ID:	**1999-10-0535-005**
Project:	138-1231-02 489 43rd St.	Received:	10/29/1999 15:28
		Extracted:	11/01/1999 09:16
Sampled:	10/29/1999	QC-Batch:	1999/11/01-02.15
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	8.2	5.0	mg/Kg	1.00	11/01/1999 13:26	

To: **Weiss Associates**
Attn.: Melissa Chamberlain

Test Method: 6010B
Prep Method: 3050B

Batch QC Report
Total Lead

Method Blank | **Soil** | **QC Batch # 1999/11/01-02.15**

MB: 1999/11/01-02.15-036 | Date Extracted: 11/01/1999 09:16

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Lead	ND	1.0	mg/Kg	11/01/1999 13:05	

To: **Weiss Associates** Test Method: 6010B

Attn: Melissa Chamberlain Prep Method: 3050B

Batch QC Report

Total Lead

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 1999/11/01-02.15**

LCS: 1999/11/01-02.15-037 Extracted: 11/01/1999 09:16 Analyzed: 11/01/1999 13:08

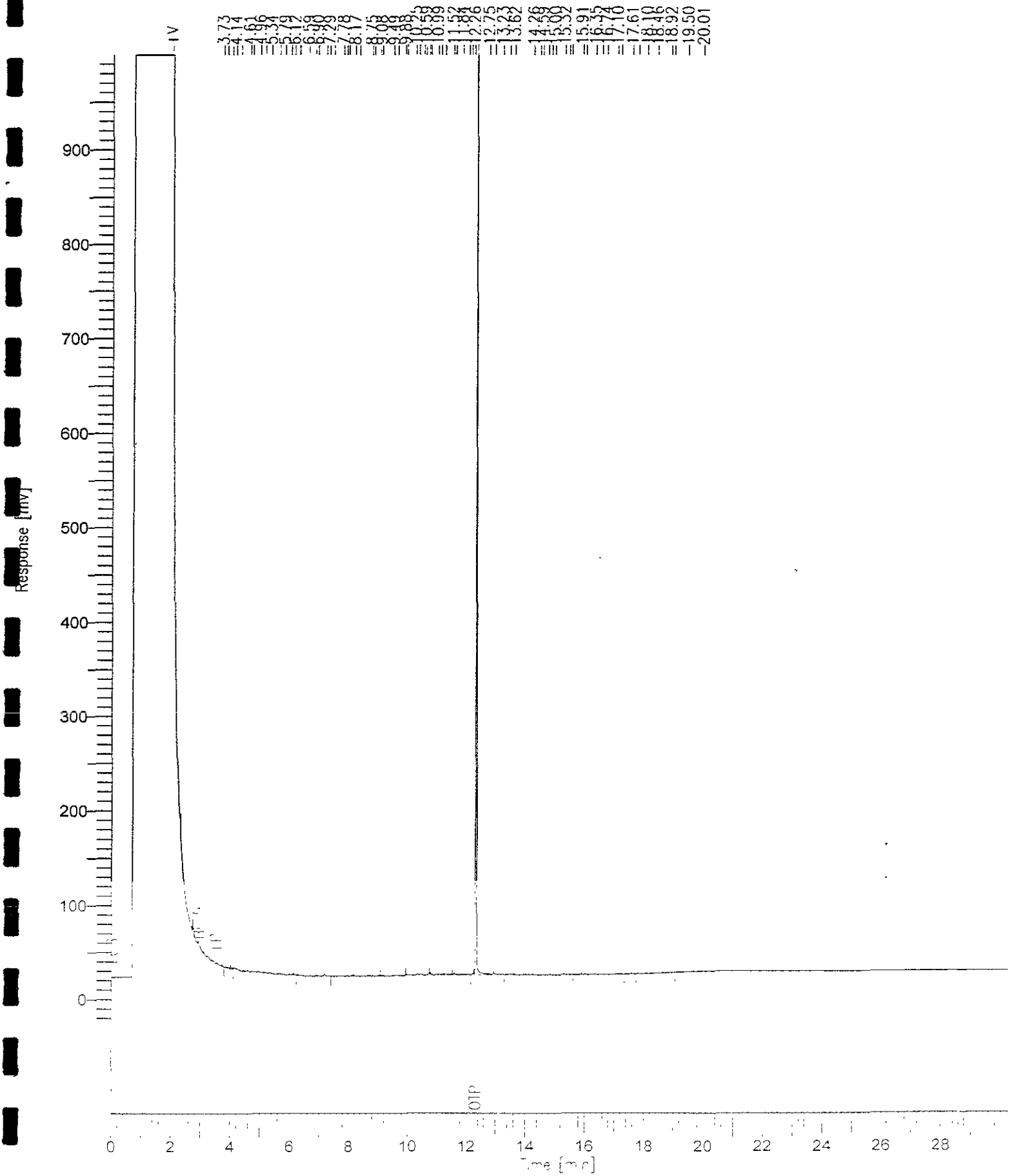
LCSD: 1999/11/01-02.15-038 Extracted: 11/01/1999 09:16 Analyzed: 11/01/1999 13:12

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Lead	95.8	96.7	100.0	100.0	95.8	96.7	0.9	80-120	20		

Chromatogram

Sample Name : 100535-01
FileName : O:\199911\DATA\5N02007.raw
Method : 5TPH0929
Start Time : 0.00 min End Time : 30.25 min
Scale Factor: 1.0 Plot Offset: -25 mV

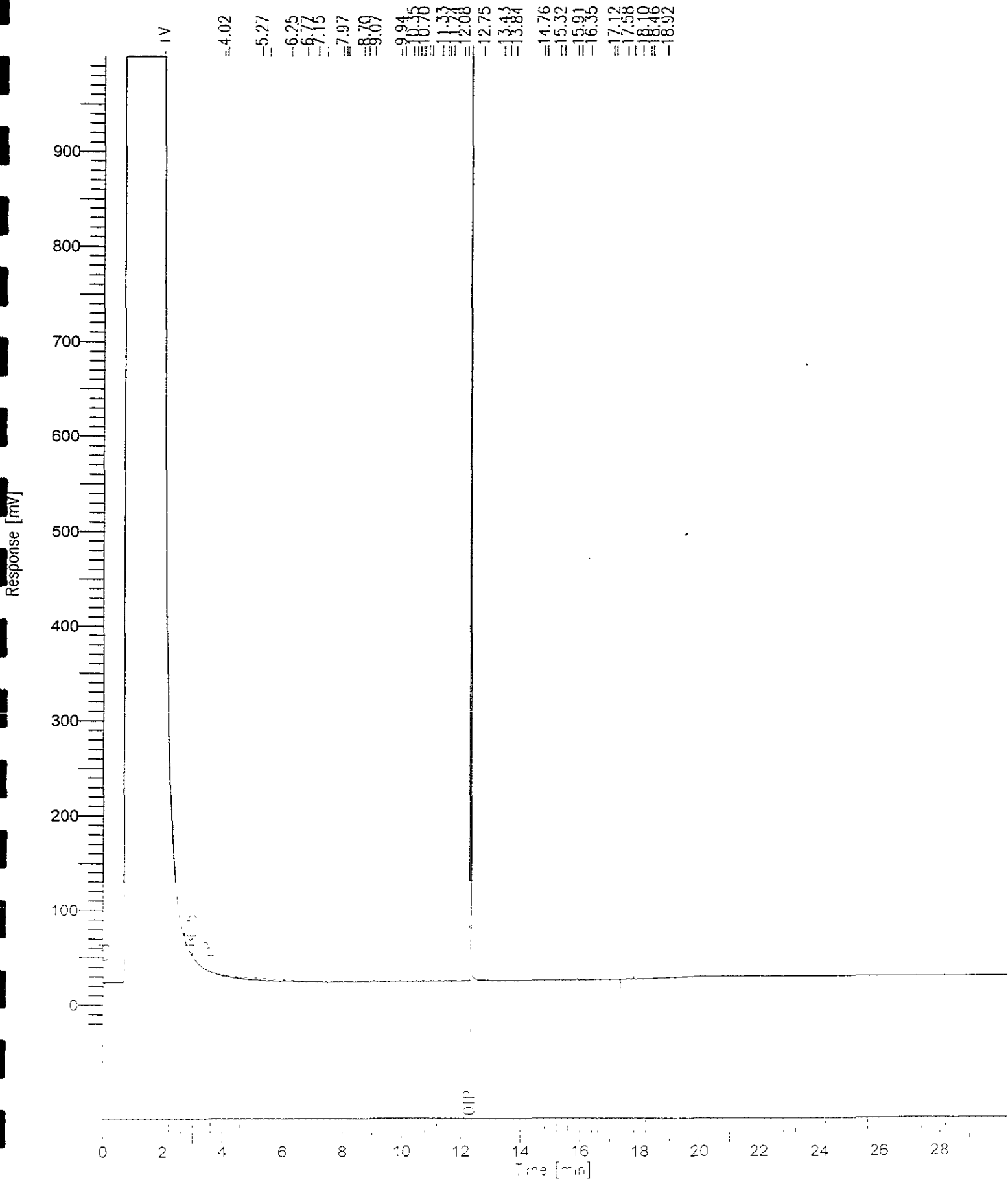
Sample #: 110101 Page 1 of 1
Date : 11/2/99 11:36
Time of Injection: 11/2/99 11:05
Low Point : -25.32 mV High Point : 1000.00 mV
Plot Scale: 1025.3 mV



Chromatogram

Sample Name : 100535-05
FileName : C:\199911\DATA\SN02008.raw
Method : STPH0929
Start Time : 0.00 min End Time : 30.25 min
Scale Factor: 1.0 Plot Offset: -25 mV

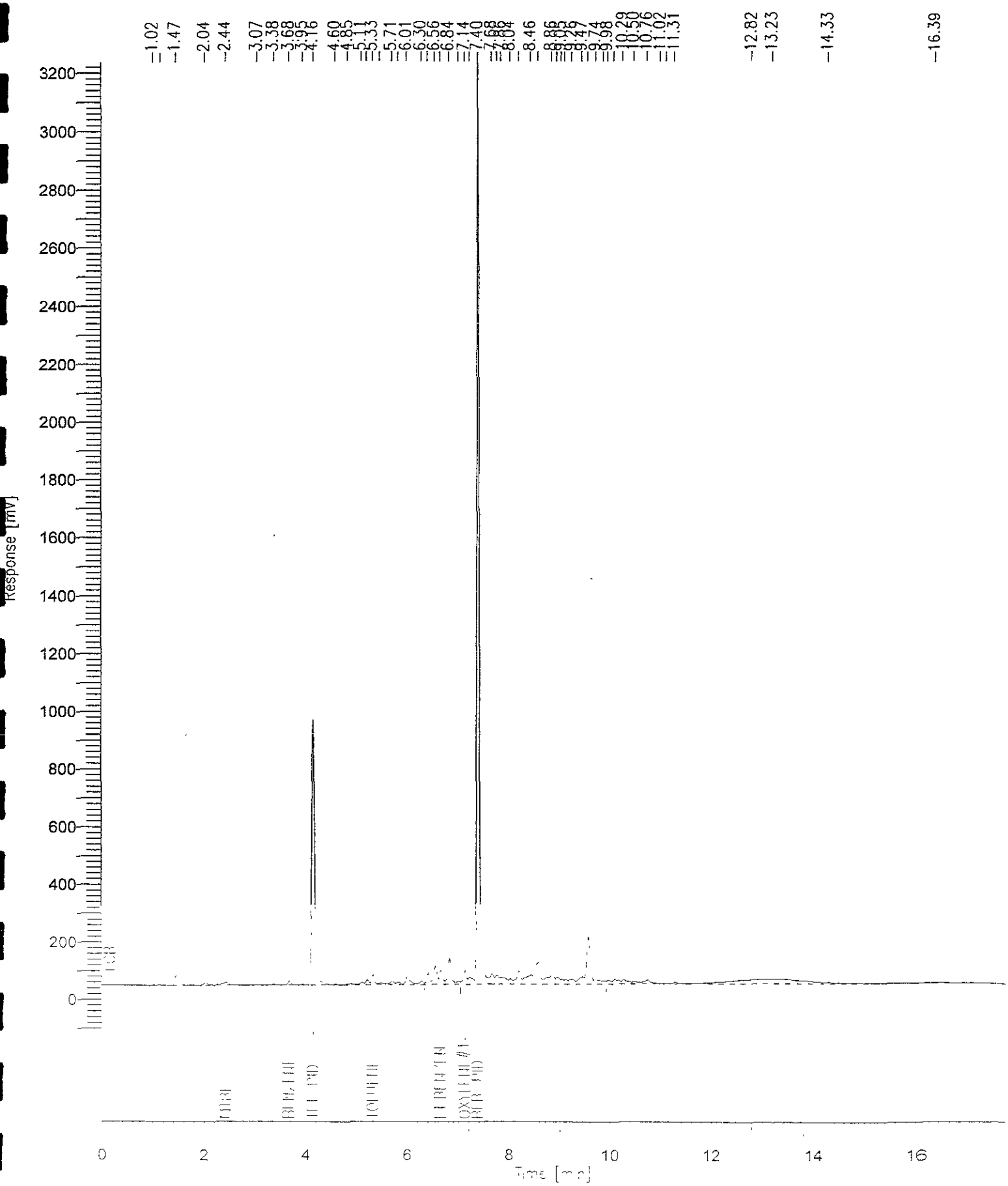
Sample #: 110101 Page 1 of 1
Date : 11/2/99 12:12
Time of Injection: 11/2/99 11:42
Low Point : -25.35 mV High Point : 1000.00 mV
Plot Scale: 1025.3 mV



BTEX Chromatogram

Sample Name : SA-SO-1999-10-0535-001 => MWA-1@16.0
FileName : I:\199911\DATA\4B110811.raw
Method : 4B110299
Start Time : 0.00 min End Time : 17.75 min
Scale Factor: 1.0 Plot Offset: -109 mV

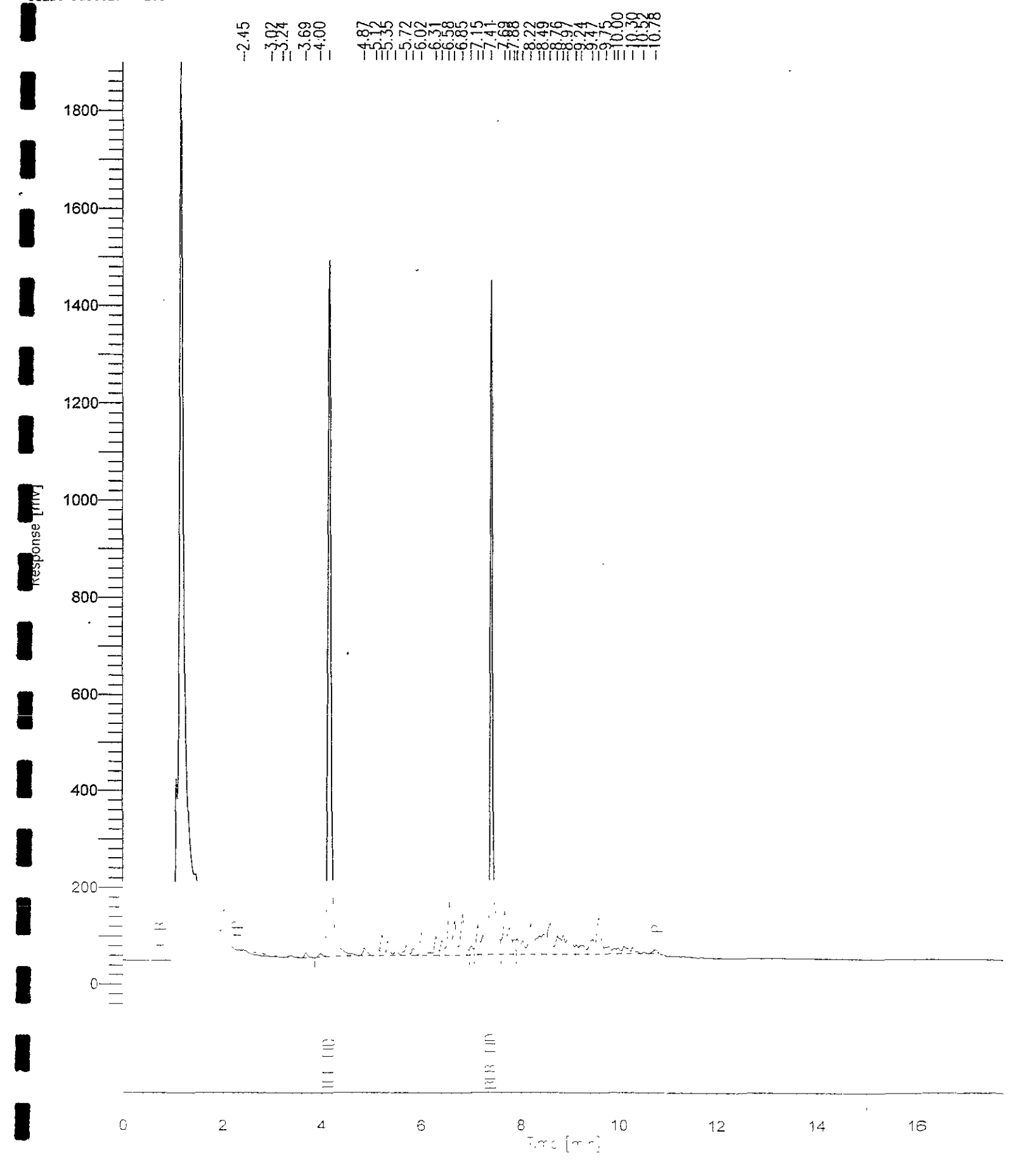
Sample #: Page 1 of 1
Date : 11/8/99 08:17
Time of Injection: 11/8/99 07:59
Low Point : -109.35 mV High Point : 3235.70 mV
Plot Scale: 3345.0 mV



Gasoline Chromatogram

Sample Name : SA-SO-1999-10-0535-001 => MWA-1@16.0
FileName : I:\199911\DATA\4G110811.raw
Method : 4G102299
Start Time : 0.00 min End Time : 17.75 min
Scale Factor: 1.0 Plot Offset: -43 mV

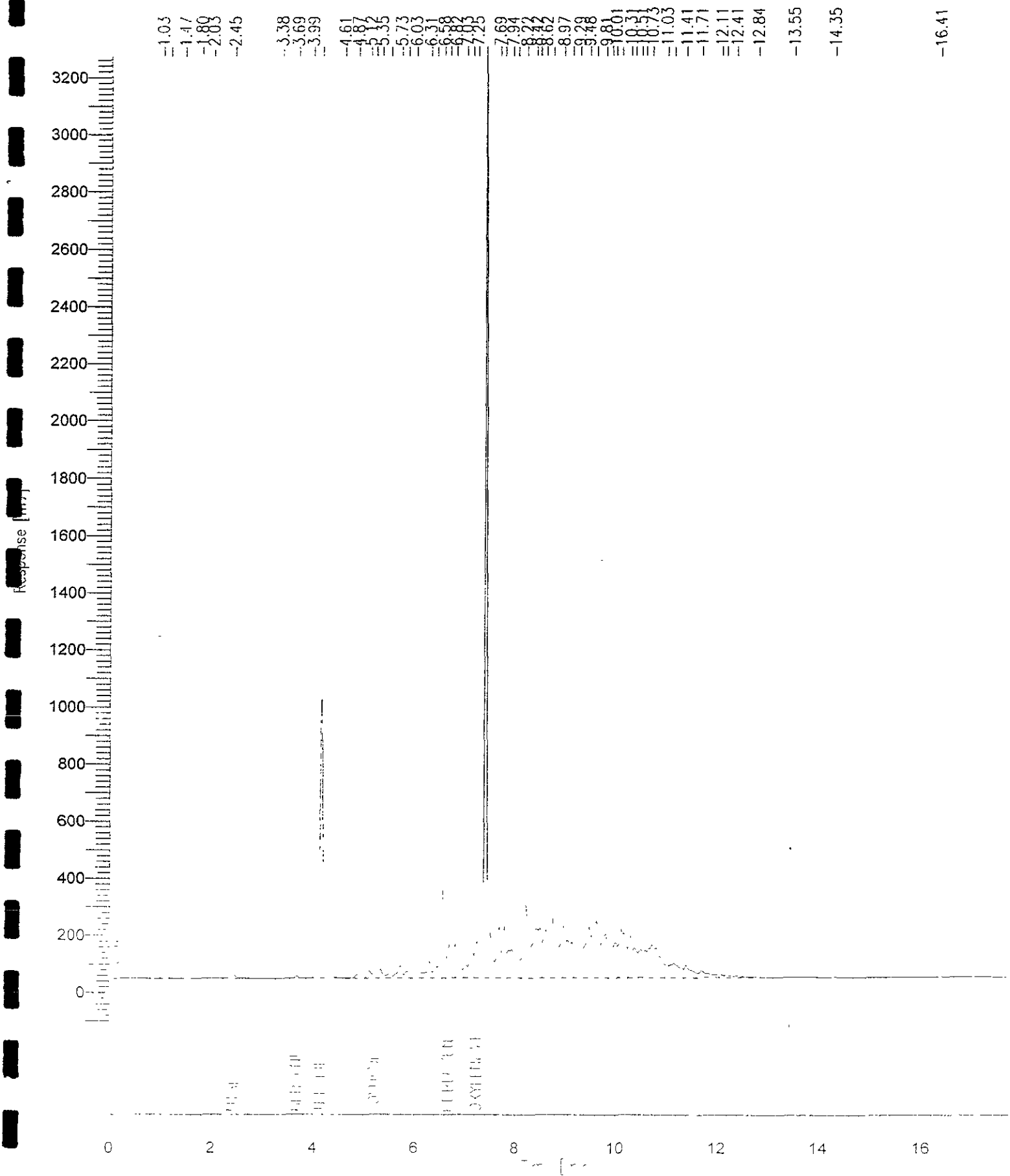
Sample #: Page 1 of 1
Date : 11/8/99 08:17
Time of Injection: 11/8/99 07:59
Low Point : -42.59 mV High Point : 1899.40 mV
Plot Scale: 1942.0 mV



BTEX Chromatogram

Sample Name : SA-SO-1999-10-0535-005 => D1 & D2
FileName : I:\199911\DATA\4B110812.raw
Method : 4B110299
Start Time : 0.00 min End Time : 17.75 min
Scale Factor: 1.0 Plot Offset: -111 mV

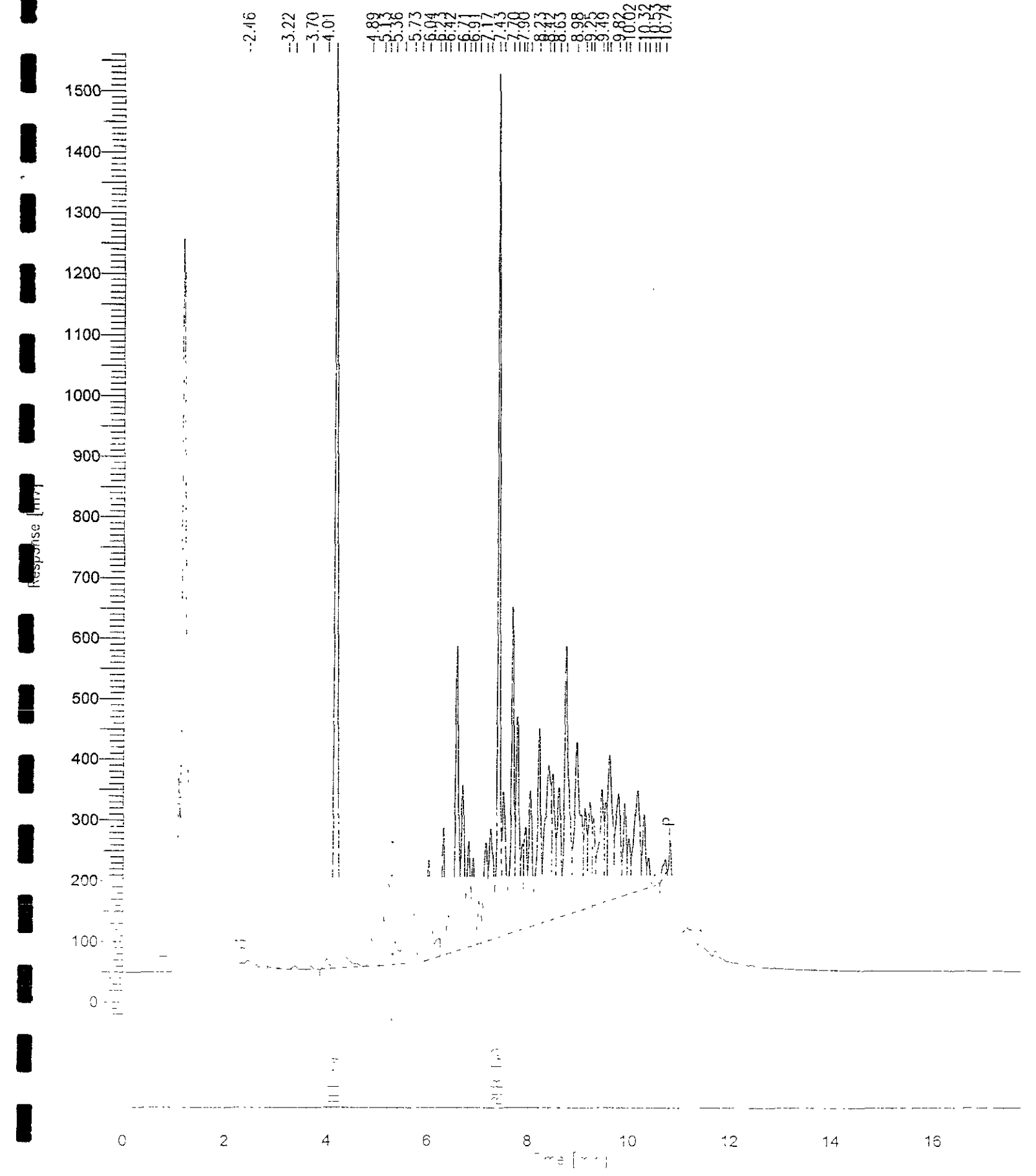
Sample #: Page 1 of 1
Date : 11/8/99 08:44
Time of Injection: 11/8/99 08:26
Low Point : -110.97 mV High Point : 3271.45 mV
Plot Scale: 3382.4 mV



Gasoline Chromatogram

Sample Name : SA-SO-1999-10-0535-005 => D1 & D2
FileName : I:\199911\DATA\4G110812.raw
Method : 4G102299
Start Time : 0.00 min End Time : 17.75 min
Scale Factor: 1.0 Plot Offset: -26 mV

Sample #: Page 1 of 1
Date : 11/8/99 08:44
Time of Injection: 11/8/99 08:26
Low Point : -25.63 mV High Point : 1562.15 mV
Plot Scale: 1587.8 mV



9900535

Weiss Associates
Environmental and Geologic Services
5500 Shellmound Street, Emeryville, CA 94608
Phone: 510-450-6000 Fax: 510-547-5043
AguaTierra Associates Incorporated, DBA

Please send analytic results and a copy of the signed chain of custody form to:
Melissa Chamberlain
Project ID: 138-1231-02
Site Name: 489 43rd st

Lab Personnel:

PLEASE INCLUDE QA/QC DATA IF BOX IS CHECKED.

- ✓ 1) Specify analytic method and detection limit in report.
- ✓ 2) Notify us if there are any anomalous peaks in GC or other scans.
- ✓ 3) ANY QUESTIONS/CLARIFICATIONS: CALL US.

CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sampled by JEA/LMS Laboratory Name: Chromalab

No of Containers	Sample ID	Container Type[1]	Sample Date	Sample Time	Vol[2]	Filter[3]	Refrig[4]	Preservative (specify)	Analyze for	Analytic Method	Turn[5]	COMMENTS
1	MWA-1@6.0	2x4 Brass	10/29/99	10:		N	Y	N	Soluble lead TPH-G, TPH-PT TPH-D, BTEX MTBE	8015, 8020/6010	N	
1	MWA-1@6	2x4	10/29/99								HOLD	
	MWA-1@11	↓	↓								HOLD	
↓	MWA-1@21	↓	↓								HOLD	
1	D-1	2x4	10/29/99			N	Y	N	TPH-G/TPH-D BTEX total lead	8015/8020/6010		Composite D1 + D2
1	D-2	↓	↓									prior to analysis
												4.8

1 Jaye Adams 10/29/99 13:52
Released by (Signature), Date, Time
1 Weiss Associates
Affiliation
2 Gary Cook 10/29/99 13:52
Received by (Signature), Date, Time
2 _____
Affiliation

3 Gary Cook 10/29/99 15:25
Released by (Signature), Date, Time
3 Chroma
Affiliation
4 _____
Shipping Carrier, Method, Date, Time
4 _____
Affiliation

5 _____
Released by (Signature), Date, Time
5 _____
Affiliation
6 _____ CRUSERVA
Received by Lab Personnel, Date, Time 10/29/99 15:20
6 _____
Affiliation, Telephone

x _____
Seal intact?

1 Sample Type Codes W = Water, S = Soil, Describe Other; Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B - Clear/Brown Glass, Describe Other;
Cap Codes PT = Plastic, Teflon Lined 2 = Volume per container; 3 = Filtered YY/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 Week, R = 24 Hour, HOLD (write out)]
ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

K:\OFFICE\FORMS\COC\COC.DOC

Weiss Associates
5801 Christie Ave, Suite 600
Emeryville, CA 94608-1827

Attn.: .

Project: 138-1231-02
Buchate Plata

Attached is our report for your samples received on Wednesday November 3, 1999. This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after December 3, 1999 unless you have requested otherwise. We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

Sincerely,

Afsaneh Salimpour

Gas/BTEX and MTBE

Weiss Associates

5801 Christie Ave, Suite 600
Emeryville, CA 94608-1827

Attn: .

Phone: (510) 450-6000 Fax: (510) 547-5043

Project #: 138-1231-02

Project: Buchate Plata

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
1199-A	Water	11/02/1999 10:45	1
1199-B	Water	11/02/1999 10:45	2

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-11-0060

To: **Weiss Associates**

Attn.: .

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**1199-A**	Lab Sample ID:	**1999-11-0060-001**
Project:	138-1231-02 Buchate Plata	Received:	11/03/1999 16:59
		Extracted:	11/10/1999 15:28
Sampled:	11/02/1999 10:45	QC-Batch:	1999/11/10-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	380	50	ug/L	1.00	11/10/1999 15:28	g
Benzene	0.77	0.50	ug/L	1.00	11/10/1999 15:28	
Toluene	3.5	0.50	ug/L	1.00	11/10/1999 15:28	
Ethyl benzene	2.1	0.50	ug/L	1.00	11/10/1999 15:28	
Xylene(s)	1.6	0.50	ug/L	1.00	11/10/1999 15:28	
MTBE	ND	5.0	ug/L	1.00	11/10/1999 15:28	
Surrogate(s)						
Trifluorotoluene	91.4	58-124	%	1.00	11/10/1999 15:28	
4-Bromofluorobenzene-FID	91.4	50-150	%	1.00	11/10/1999 15:28	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-11-0060

To: **Weiss Associates**

Attn.: .

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**1199-B**	Lab Sample ID:	**1999-11-0060-002**
Project:	138-1231-02 Buchate Plata	Received:	11/03/1999 16:59
		Extracted:	11/10/1999 15:55
Sampled:	11/02/1999 10:45	QC-Batch:	1999/11/10-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/10/1999 15:55	
Benzene	ND	0.50	ug/L	1.00	11/10/1999 15:55	
Toluene	ND	0.50	ug/L	1.00	11/10/1999 15:55	
Ethyl benzene	ND	0.50	ug/L	1.00	11/10/1999 15:55	
Xylene(s)	ND	0.50	ug/L	1.00	11/10/1999 15:55	
MTBE	ND	5.0	ug/L	1.00	11/10/1999 15:55	
Surrogate(s)						
Trifluorotoluene	82.1	58-124	%	1.00	11/10/1999 15:55	
4-Bromofluorobenzene-FID	72.2	50-150	%	1.00	11/10/1999 15:55	

To: **Weiss Associates**

Attn.: .

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Method Blank **Water** **QC Batch # 1999/11/10-01.01**

MB: 1999/11/10-01.01-001 Date Extracted: 11/10/1999 05:24

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	11/10/1999 05:24	
Benzene	ND	0.5	ug/L	11/10/1999 05:24	
Toluene	ND	0.5	ug/L	11/10/1999 05:24	
Ethyl benzene	ND	0.5	ug/L	11/10/1999 05:24	
Xylene(s)	ND	0.5	ug/L	11/10/1999 05:24	
MTBE	ND	5.0	ug/L	11/10/1999 05:24	
Surrogate(s)					
Trifluorotoluene	92.0	58-124	%	11/10/1999 05:24	
4-Bromofluorobenzene-FID	71.8	50-150	%	11/10/1999 05:24	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-11-0060

To: **Weiss Associates**

Test Method: 8020
8015M

Attn: .

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/11/10-01.01**

LCS: 1999/11/10-01.01-002 Extracted: 11/10/1999 05:55 Analyzed: 11/10/1999 05:55

LCSD: 1999/11/10-01.01-003 Extracted: 11/10/1999 06:22 Analyzed: 11/10/1999 06:22

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	542	447	500	500	108.4	89.4	19.2	75-125	20		
Benzene	96.7	100	100.0	100.0	96.7	100.0	3.4	77-123	20		
Toluene	97.7	99.9	100.0	100.0	97.7	99.9	2.2	78-122	20		
Ethyl benzene	94.6	98.5	100.0	100.0	94.6	98.5	4.0	70-130	20		
Xylene(s)	282	291	300	300	94.0	97.0	3.1	75-125	20		
Surrogate(s)											
Trifluorotoluene	453	476	500	500	90.6	95.2		58-124			
4-Bromofluorobenzene-FI	420	343	500	500	84.0	68.6		50-150			

To: **Weiss Associates**

Test Method: 8015M
8020

Attn:.

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analyte Flags

g

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

Soluble Metals

Weiss Associates

5801 Christie Ave, Suite 600
Emeryville, CA 94608-1827

Attn: .

Phone: (510) 450-6000 Fax: (510) 547-5043

Project #: 138-1231-02

Project: Buchate Plata

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
1199-A	Water	11/02/1999 10:45	1

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-11-0060

To: **Weiss Associates**
Attn.: .

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

Sample ID:	**1199-A**	Lab Sample ID:	**1999-11-0060-001**
Project:	138-1231-02 Buchate Plata	Received:	11/03/1999 16:59
		Extracted:	11/05/1999 08:28
Sampled:	11/02/1999 10:45	QC-Batch:	1999/11/05-05.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	0.0050	mg/L	1.00	11/05/1999 10:34	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-11-0060

To: **Weiss Associates**

Attn.: .

Test Method: 6010B

Prep Method: 3005A

Batch QC Report

Soluble Metals

Method Blank | **Water** | **QC Batch # 1999/11/05-05.15**

MB: 1999/11/05-05.15-018 | Date Extracted: 11/05/1999 08:28

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Lead	ND	0.0050	mg/L	11/05/1999 10:22	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-11-0060

To: **Weiss Associates**

Attn: .

Test Method: 6010B

Prep Method: 3005A

Batch QC Report

Soluble Metals

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/11/05-05.15**

LCS: 1999/11/05-05.15-019 Extracted: 11/05/1999 08:28 Analyzed: 11/05/1999 10:26

LCSD: 1999/11/05-05.15-020 Extracted: 11/05/1999 08:28 Analyzed: 11/05/1999 10:30

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Lead	0.478	0.481	0.500	0.500	95.6	96.2	0.6	80-120	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-11-0060

Total Extractable Petroleum Hydrocarbons (TEPH)

Weiss Associates	5801 Christie Ave, Suite 600 Emeryville, CA 94608-1827
Attn: .	Phone: (510) 450-6000 Fax: (510) 547-5043
Project #: 138-1231-02	Project: Buchate Plata

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
1199-A	Water	11/02/1999 10:45	1

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-11-0060

To: **Weiss Associates**
Attn.: .

Test Method: 8015m
Prep Method: 3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID:	**1199-A**	Lab Sample ID:	**1999-11-0060-001**
Project:	138-1231-02 Buchate Plata	Received:	11/03/1999 16:59
		Extracted:	11/04/1999 08:00
Sampled:	11/02/1999 10:45	QC-Batch:	1999/11/04-03.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	11/10/1999 11:18	
Paint Thinner	240	50	ug/L	1.00	11/10/1999 11:18	,npt
Surrogate(s)						
o-Terphenyl	96.0	60-130	%	1.00	11/10/1999 11:18	

To: **Weiss Associates**

Attn.: .

Test Method: 8015m

Prep Method: 3510/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank **Water** **QC Batch # 1999/11/04-03.10**

MB: 1999/11/04-03.10-001 Date Extracted: 11/04/1999 09:44

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	11/05/1999 09:44	
Paint Thinner	ND	50	ug/L	11/05/1999 09:44	
Surrogate(s)					
o-Terphenyl	97.0	60-130	%	11/05/1999 09:44	

To: **Weiss Associates**

Attn: .

Test Method: 8015m

Prep Method: 3510/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/11/04-03.10**

LCS: 1999/11/04-03.10-002 Extracted: 11/04/1999 09:00 Analyzed: 11/04/1999 13:38

LCSD: 1999/11/04-03.10-003 Extracted: 11/04/1999 09:00 Analyzed: 11/04/1999 15:50

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1210	1150	1250	1250	96.8	92.0	5.1	60-130	25		
Surrogate(s)											
o-Terphenyl	20.9	24.3	20.0	20.0	104.5	121.5		60-130			

To: **Weiss Associates**

Attn:.

Test Method: 8015m

Prep Method: 3510/8015M

Legend & Notes

Total Extractable Petroleum Hydrocarbons (TEPH)

Analysis Notes

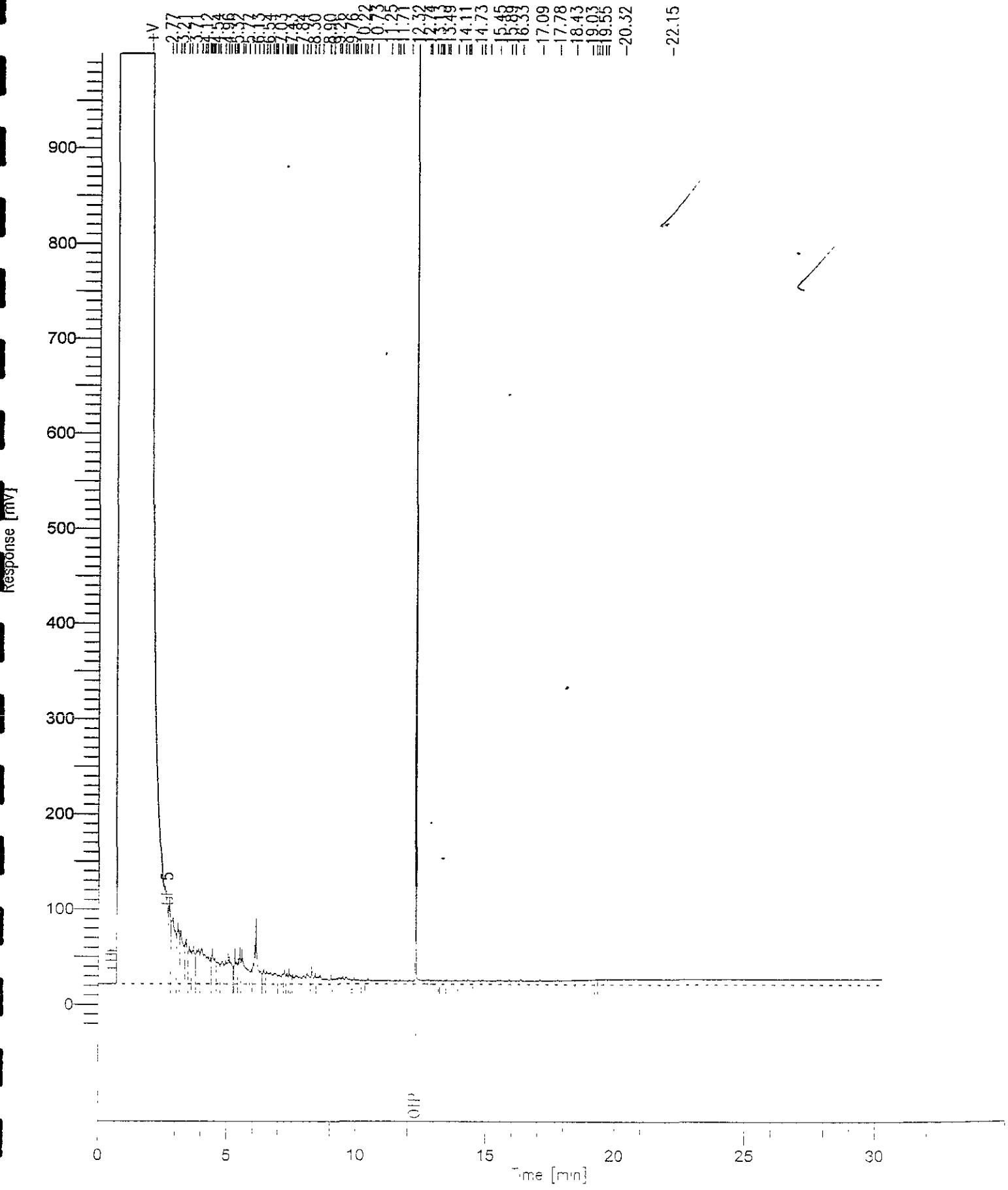
1199-A (Lab# 1999-11-0060-001)

npt=Hydrocarbon reported is in the Paint Thinner range and does not match the pattern of our paint thinner standard.

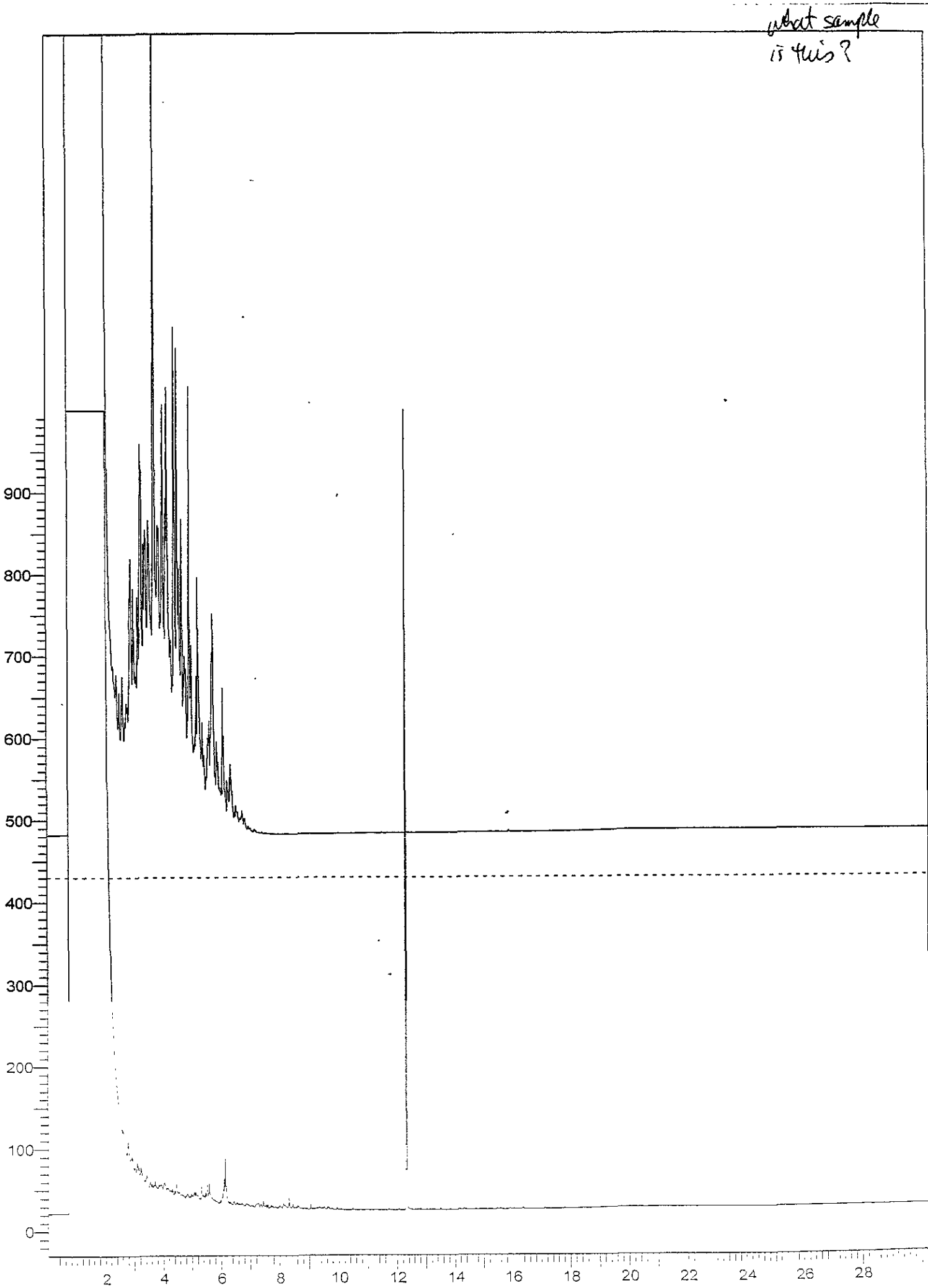
Chromatogram

Sample Name : 110060-01
FileName : O:\199911\DATA\5N09007A.raw
Method : 5MSK1018
Start Time : 0.00 min End Time : 35.00 min
Scale Factor: 1.0 Plot Offset: -27 mV

Sample #: 110403 Page 1 of 1
Date : 11/10/1999 11:48
Time of Injection: 11/10/1999 11:18
Low Point : -27.12 mV High Point : 1000.00 mV
Plot Scale: 1027.1 mV



what sample is this?



99-11 0060

48872

Weiss Associates
Environmental and Geologic Services
5500 Shellmound Street, Emeryville, CA 94608
Phone 510-450-6000 Fax: 510-547-5043
AguaTierra Associates Incorporated, DBA

Please send analytic results and a copy of the signed chain of custody form to:

Project ID: 138-1231-02

Site Name: Buchate Plata

Lab Personnel:

PLEASE INCLUDE QA/QC DATA IF BOX IS CHECKED.

1) Specify analytic method and detection limit in report.
2) Notify us if there are any anomalous peaks in GC or other scans.
3) ANY QUESTIONS/CLARIFICATIONS: CALL US.

CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sampled by Gary C.

Laboratory Name: Chromo

No. of Containers	Sample ID	Container Type[1]	Sample Date	Sample Time	Vol[2]	Filter[3]	Refrig[4]	Preservative (specify)	Analyze for	Analytic Method	Turn[5]	COMMENTS
3	1199-A	W/VOA	11-2-99	1045	40ml	N	Y	HCL	TPH-G/BTEX/MTBE	EPA 8015/8020	N	
2	1199-A	W/liter	11-2-99	1046	1 liter	W	Y	HCL	TPH-D TPH-Bunker, thinner	EPA 8015	N	
1	1199-A	W/500ml	11-2-99	1047	500ml	N	Y	—	Soluble Lead	EPA 6010	N	
3	1199-B	W/VOA	11-2-99	LAB	40ml	N	Y	HCL	TPH-G/BTEX/MTBE	EPA 8015/8020	N	

1 Gary C. 11-2-99
Released by (Signature), Date, Time
1 Weiss Assoc 11-2-99
Affiliation
2 Joyce Adams 11-3-99
Received by (Signature), Date, Time
2 Weiss Associates 1510
Affiliation

3 see #2
Released by (Signature), Date, Time
3 Tom Wright see #2
Affiliation
4 Tom Wright 11/3/99 1515
Shipping Carrier, Method, Date, Time
4 Chromo Lab.
Affiliation

5 Tom Wright 11/3/99 1645
Released by (Signature), Date, Time
5 C/L
Affiliation
6 Denise Harrington 11/3/99@1645
Received by Lab Personnel, Date, Time
6 Chromalab (925) 484-1919
Affiliation, Telephone

x NA
Seal intact?

2.4°C

1 Sample Type Codes W = Water, S = Soil, Describe Other; Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B - Clear/Brown Glass, Describe Other; Cap Codes PT = Plastic, Teflon Lined 2 = Volume per container; 3 = Filtered YY/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 Week, R = 24 Hour, HOLD (write out)]
ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS:

K:\OFFICE\FORMS\COFCOC.DOC