

**GROUNDWATER MONITORING REPORT
MARCH 1994 SAMPLING EVENT**

BP SERVICE STATION No. 11060

**4580 Fauntleroy Way SW
Seattle, Washington**

Prepared for

BP Oil Company

11-09410-06

April, 1993

RZA AGRA, Inc.
(formerly Rittenhouse Zeman & Associates, Inc.)
Engineering & Environmental Services

11335 NE 122nd Way
Suite 100
Kirkland, WA 98034-6918
(206) 820-4669
FAX (206) 821-3914

20 April 1994

11-09410-06

BP Oil Company
Northwest Division
295 Southwest 41st Street
Building 13, Suite N
Renton, Washington 98055

Attention: Mr. Peter J. DeSantis

Subject: Groundwater Monitoring Report
March 1994
BP Service Station No. 11060
4580 Fauntleroy Way SW
Seattle, Washington
Contract Number G239007

3/22/94
3/29/94
CN

DEPARTMENT OF ECOLOGY
NWRO/TCP TANK UNIT *U186*

INTERIM CLEANUP REPORT	<input checked="" type="checkbox"/>
SITE CHARACTERIZATION	<input type="checkbox"/>
FINAL CLEANUP REPORT	<input type="checkbox"/>
OTHER _____	<input type="checkbox"/>
AFFECTED MEDIA: SOIL	<input checked="" type="checkbox"/>
OTHER _____ GW	<input checked="" type="checkbox"/>
INSPECTOR (INIT.) <i>GM</i> DATE <i>7-14-94</i>	

Mr. DeSantis:

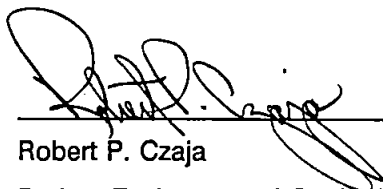
RZA AGRA, Inc. (RZA AGRA) is pleased to present this letter report presenting the results of groundwater monitoring and sampling conducted at the subject site on 4 March 1994 (Figure 1). Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, and MW-5 during this sampling event.

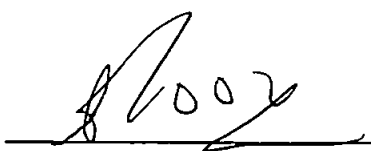
Measurements of groundwater temperature, conductivity, and pH were collected to verify that groundwater representative of the formation was being sampled. The readings and the amount of groundwater purged are recorded for each well on the attached Groundwater Monitoring and Sampling Form(s). Fluid level measurements collected at the subject site to date are summarized in Table 1. Figure 2 presents an isopleth map based on the fluid level data collected during this monitoring event. A groundwater remediation system has not been installed at the subject site. Groundwater samples collected during this sampling event were submitted to Analytical Technologies Inc. (ATI), of Renton, Washington for analysis.

The results of analyses performed on groundwater samples collected during this sampling event are summarized along with historical results in Table 2. Analytical results for this sampling event are also presented graphically on Figure 2. A copy of the ATI report and chain-of-custody documentation are attached.

We appreciate this opportunity to be of service to BP Oil Company. Please contact us if you have questions regarding this report or other aspects of this project.

Respectfully submitted,
RZA AGRA, Inc.



Robert P. Czaja
Project Environmental Geologist

K.V. Lew, P. Eng.
Senior Technical Engineer

RPC/SRTS/lad

Enclosures: Table 1 - Summary of Fluid Level Measurements
Table 2 - Summary of Analytical Results: Groundwater
Figure 1 - Site Vicinity Map
Figure 2 - Groundwater Surface Elevation Contour Map
RZA AGRA Groundwater Monitoring and Sampling Field Form(s)
ATI Report Number 9403-045 and Chain-of-Custody Document
Appendix A: Field Procedures



Table 1: Summary of Fluid Level Measurements
BP Service Station No. 11060
4580 Fauntleroy Way SW
Seattle, Washington
RZA AGRA, Inc. Project No. 11-09410-06

(page 1 of 1)

Well Number/ Top of Casing Elevation (ft)	Date Collected	Product Thickness (ft)	Depth to Water (ft)	Groundwater Elevation (ft)*
MW-1/ 99.89	11-May-93	0	23.02	76.87
	04-Mar-94	0	24.32	75.57
MW-2/ 99.05	11-May-93	0	22.98	76.07
	04-Mar-94	0	24.30	74.75
MW-3/ 98.53	07-Jun-93	0	22.28	76.25
	04-Mar-94	0	23.62	74.91
MW-4/ 100.26	11-May-93	0	23.03	77.23
	04-Mar-94	4.00	26.83	76.63
MW-5/ 100.88	11-May-93	0	22.97	77.91
	04-Mar-94	0	24.35	76.53

Notes:

Groundwater elevation established relative to an arbitrary datum of 100.00 feet.

* = Groundwater elevation is corrected for the effects of LPH using the following formula:

$TOC - [DTW - (PT)(0.80)]$ where TOC=Top of Casing, DTW=Depth to Water,

PT=Product Thickness, and 0.80=Typical Specific Gravity for Gasoline.

** = Groundwater elevation was not measured on this date.

Table 2: Summary of Analytical Results: Groundwater
BP Service Station No. 11060
4580 Fauntleroy Way SW
Seattle, Washington
RZA AGRA, Inc. Project No. 11-09410-06

page (1 of 1)

Well Number	Date Collected	WTPH-G (ppb)	WTPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Total Xylenes (ppb)	Total Lead (ppb)	Dissolved Lead (ppb)	Turbidity (NTU)
MW-1	13-May-93	3,300	NT	82	11	7.8	14	NT	NT	NT
	04-Mar-94	830	580	5.6	2.8	2.7	11	38	<3	550
MW-2	13-May-93	17,000	NT	2,500	48	100	240	NT	NT	NT
	04-Mar-94	4,300	1,300	1,500	20	130	180	4.9	<3	250
MW-3	07-Jun-93	2,200	NT	140	7.4	13	14	NT	NT	NT
	04-Mar-94	1,200	590	99	2.4	11	10	4.3	<3	80
MW-4	13-May-93	31,000	NT	8,700	4,000	57	3,200	NT	NT	NT
	04-Mar-94	4.0 feet of Liquid Petroleum Hydrocarbons present. Well was not sampled on this date.								
MW-5	13-May-93	1,800	NT	130	25	23	22	NT	NT	NT
	04-Mar-94	710	420	26	5.6	11	7.6	27	<3	180

Notes:

WTPH-G = total petroleum hydrocarbons - gasoline, by Ecology Method WTPH-G.

WTPH-D = total petroleum hydrocarbons - diesel, by Ecology Method WTPH-D.

Benzene, Toluene, Ethyl Benzene and Total Xylenes (BTEX) were analyzed by EPA Method 8020.

Total and dissolved lead by EPA Method 7421.

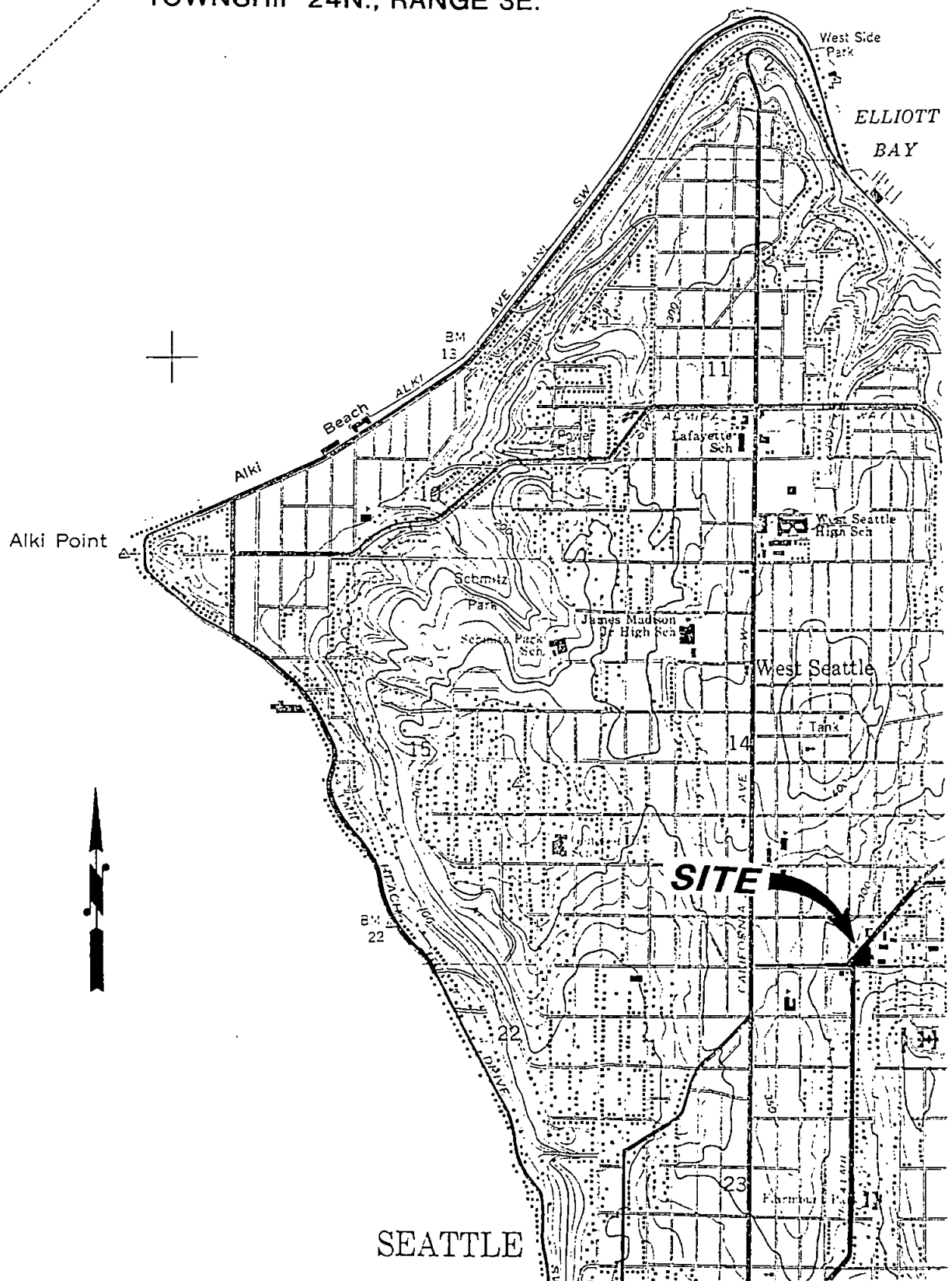
NT = Not tested.

All concentrations are expressed in parts per billion (ppb).

Concentrations preceded by a "<" are laboratory method detection limits. The method detection limit may vary depending on the laboratory used and sample characteristics.

TOWNSHIP 24N., RANGE 3E.

Duwamish Head



RZA-AGRA

ENGINEERING & ENVIRONMENTAL SERVICES

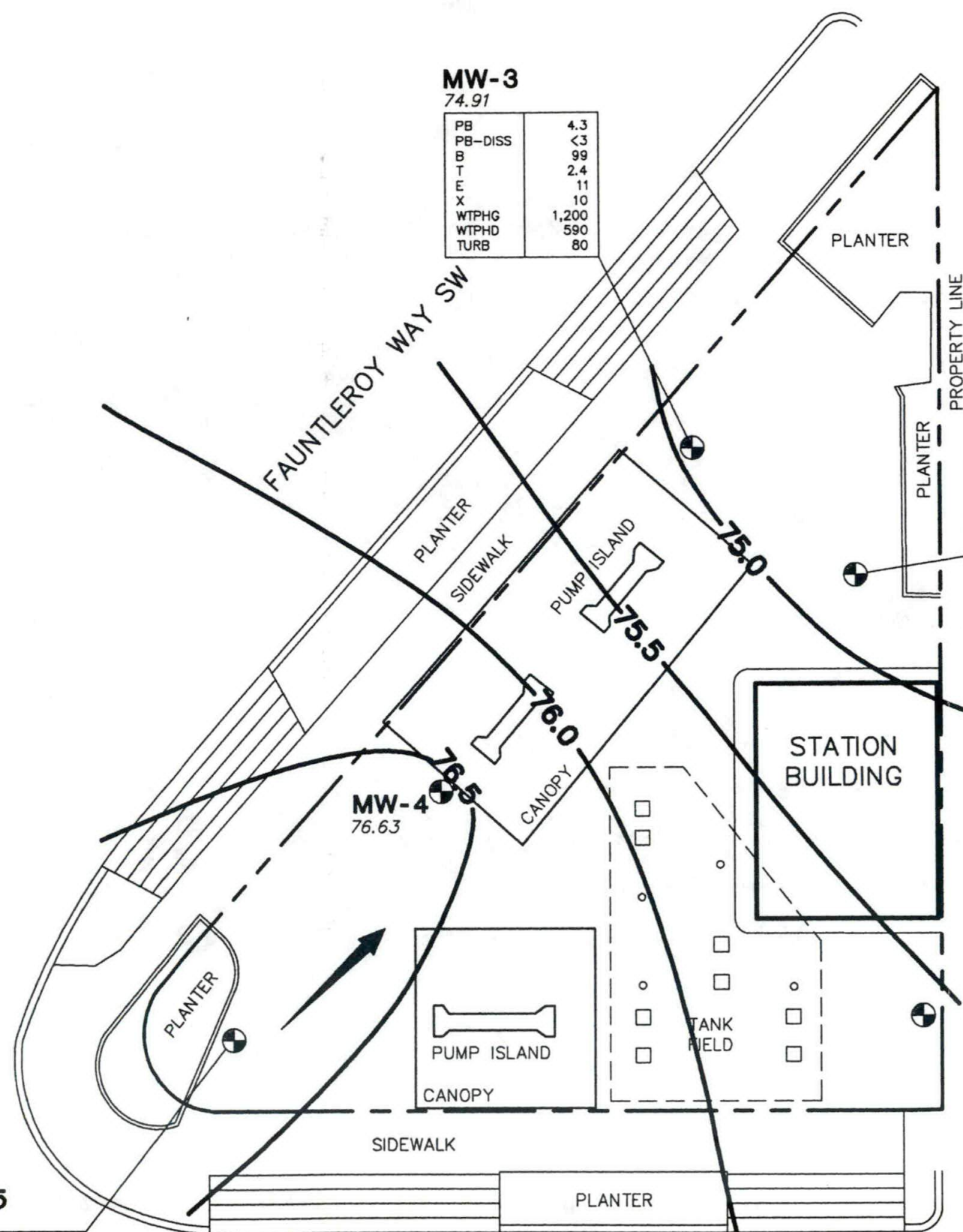
11335 N.E. 122nd Way
Suite 100
Kirkland, Washington
98034-6918

W.O.	W-8783-1
DESIGN	JC
DRAWN	MJF
DATE	MAY 1993
SCALE	N.T.S.

**BP SERVICE STATION No. 11060
SEATTLE, WASHINGTON**

LOCATION MAP

FIGURE 1



MW-3
74.91

PB	4.3
PB-DISS	<3
B	99
T	2.4
E	11
X	10
WTPHG	1,200
WTPHD	590
TURB	80

MW-2
74.75

PB	4.9
PB-DISS	<3
B	1,500
T	20
E	130
X	180
WTPHG	4,300
WTPHD	1,300
TURB	250

MW-1
75.57

PB	38
PB-DISS	<3
B	5.6
T	2.8
E	2.7
X	11
WTPHG	830
WTPHD	580
TURB	550

MW-5
76.53

PB	27
PB-DISS	<3
B	26
T	5.6
E	11
X	7.6
WTPHG	710
WTPHD	420
TURB	180

LEGEND

MW-5



MONITORING WELL NUMBER AND LOCATION
(INSTALLED 6 & 7 MAY 1993)

- 76.5 -

INFERRED GROUNDWATER SURFACE
ELEVATION CONTOUR IN FEET

76.53

SPOT GROUNDWATER SURFACE
ELEVATION IN FEET



INFERRED DIRECTION OF GROUNDWATER
MIGRATION

GROUND WATER TEST RESULTS 4 MARCH 1994

CONCENTRATIONS IN PARTS PER BILLION (PPB)

ND

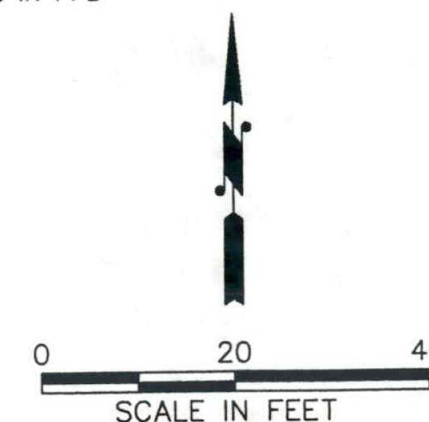
NOT DETECTED, BELOW METHOD DETECTION LIMIT

PB
PB-DISS
B
T
E
X
WTPHG
WTPHD
TURB

TOTAL LEAD BY EPA METHOD 7421
DISSOLVED LEAD BY EPA METHOD 7421
BENZENE BY EPA METHOD 8020
TOLUENE BY EPA METHOD 8020
ETHYLBENZENE BY EPA METHOD 8020
XYLENES BY EPA METHOD 8020
WASHINGTON TOTAL PETROLEUM HYDROCARBONS
FOR GASOLINE (EPA METHOD 8015)
WASHINGTON TOTAL PETROLEUM HYDROCARBONS
FOR DIESEL (EPA METHOD 8015)
TURBIDITY IN NTU's

PB	ND
PB-DISS	ND
B	ND
T	ND
E	ND
X	ND
WTPHG	ND
WTPHD	ND
TURB	N/A

CONCENTRATIONS IN PPB
COMPOUNDS



RZA AGRA, INC.
Engineering & Environmental Services

11335 N.E. 122nd Way
Suite 100
Kirkland, Washington 98034-6918

W.O. 11-09410-06
DESIGN RPC
DRAWN BDT
DATE APR 1994
SCALE 1"=20'

BP SERVICE STATION No. 11060
SEATTLE, WASHINGTON
GROUNDWATER SURFACE ELEVATION
CONTOUR MAP FOR 4 MARCH 1994
FIGURE 2

RZA AGRA, Inc.
Engineering & Environmental Services

GROUNDWATER MONITORING AND SAMPLING

PROJECT NAME: BP Service Station No. 11060 FIELD REPORT No.: 574 PAGE 1 OF 1

SAMPLER: Jeff Kasper / Scott Overdick DATE SAMPLED: 4 March 1994 PROJECT No.: 11-9410-06

METHOD OF COLLECTION: Single Check Valve Disposable Plastic Bailers WEATHER: Sunny, 50's

PURGE WATER DISPOSITION: RZA AGRA, INC. TREATMENT ☒ DRUMMED ON-SITE ☐ OTHER (SPECIFY) _____ DRUM COUNT _____

PRODUCT DISPOSITION: DRUMMED ON-SITE ☐ DRUM COUNT _____ OTHER (SPECIFY) _____

1 WELL VOLUME = (COLUMN HEIGHT)(WELL VOLUME CONSTANT)

WELL VOLUME CONSTANTS: 1"ID...0.041 gal/ft 1.5"ID...0.092 gal/ft 2"ID...0.163 gal/ft 4"ID...0.653 gal/ft 6"ID...1.469 gal/ft

SAMPLE	WELL DIAMETER	LAB I.D.	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (ft)	PRODUCT THICKNESS (ft)	DEPTH TO BOTTOM (ft)	COLUMN HEIGHT (ft)	1 WELL VOLUME	VOLUME PURGED	BAILED DRY (Y/N)	TIME SAMPLED	CONDUCTIVITY (uMHOS)	DISSOLVED O ₂ % (mg/L)	TEMP. (C)	pH
MW-1	4"	CFF-06	not detected	24.32		26.10	1.78	1.16	3	Y	12:00	975	43 4.6	15.2	6.22
MW-1												978	41 4.4	15.3	6.27
MW-1												976	40 4.4	15.3	6.25
MW-2	4"	CFF-06	not detected	24.30		27.80	3.50	2.29	6	X	12:30	865	56 5.8	15.0	6.87
MW-2												862	54 5.6	15.0	6.85
MW-2												865	53 5.6	15.1	6.84
MW-3	4"	CFF-06	not detected	23.62		33.50	9.88	6.5	15	Y	12:15	815	67 7.9	14.7	7.07
MW-3												812	65 7.6	14.7	7.10
MW-3												811	64 7.6	14.8	7.11

TOTAL PURGED Project 28 gal

WELL VOLUME CONSTANTS: 1"ID...0.041 gal/ft 1.5"ID...0.092 gal/ft 2"ID...0.163 gal/ft 4"ID...0.653 gal/ft 6"ID...1.469 gal/ft

TOTAL PURGED	4 gallons
-----------------	-----------

REMARKS: MW-1 - Brown, turbid, petroleum odor/no sheen
MW-3 - Brown, turbid, petroleum odor/no sheen
MW-5 - Brown, turbid, petroleum odor/no sheen

mw-2 - Brown, turbid, petroleum odor / no sheen
mw-4 - Product found upon drilling, forced back
into well. measured fluid levels prior to
departing the site



Analytical**Technologies, Inc.**

560 Naches Avenue, S.W., Suite 101, Renton, WA 98055 (206) 228-8335

Karen L. Mixon, Laboratory Manager

ATI I.D. # 9403-045

March 16, 1994

RZA AGRA, Inc.
11335 N.E. 122nd Way
Suite 100
Kirkland WA 98034-6918

Attention : Bob Czaja

Project Number : BP #11060

Project Name : BP #11060/Fauntleroy 11-09410-06

Dear Mr. Czaja:

On March 4, 1994, Analytical Technologies, Inc. (ATI), received five samples for analysis. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The results, sample cross reference, and quality control data are enclosed.

Sincerely,

Diana Spence
Project Manager

DS/hal/mrj

Enclosure



ATI I.D. # 9403-045

SAMPLE CROSS REFERENCE SHEET

CLIENT : RZA AGRA, INC.
 PROJECT # : BP #11060
 PROJECT NAME : BP #11060/FAUNTLEROY 11-09410-06

ATI #	CLIENT DESCRIPTION	DATE SAMPLED	MATRIX
9403-045-1	CFA-06	03/04/94	WATER
9403-045-2	CFC-06	03/04/94	WATER
9403-045-3	CFD-06	03/04/94	WATER
9403-045-4	CFE-06	03/04/94	WATER
9403-045-5	TRIP BLANK	N/A	WATER

=====

----- TOTALS -----

MATRIX	# SAMPLES
WATER	5

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of the report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



ATI I.D. # 9403-045

ANALYTICAL SCHEDULE

CLIENT : RZA AGRA, INC.
 PROJECT # : BP #11060
 PROJECT NAME : BP #11060/FAUNTLEROY 11-09410-06

ANALYSIS	TECHNIQUE	REFERENCE	LAB
BETX	GC/PID	EPA 8020	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-G	R
TOTAL PETROLEUM HYDROCARBONS	GC/FID	WA DOE WTPH-D	R
LEAD	AA/GF	EPA 7421	R
TURBIDITY	NEPHELOMETRIC	EPA 180.1	R

R = ATI - Renton
 SD = ATI - San Diego
 PHX = ATI - Phoenix
 PNR = ATI - Pensacola
 FC = ATI - Fort Collins
 SUB = Subcontract

Analytical**Technologies**, Inc.

ATI I.D. # 9403-045

BETX - GASOLINE
DATA SUMMARY

CLIENT	: RZA AGRA, INC.	DATE SAMPLED	: N/A
PROJECT #	: BP #11060	DATE RECEIVED	: N/A
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 03/07/94
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

BENZENE	<0.5
ETHYLBENZENE	<0.5
TOLUENE	<0.5
TOTAL XYLENES	<0.5
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	105	76 - 120
TRIFLUOROTOLUENE	102	50 - 150



ATI I.D. # 9403-045

BETX - GASOLINE
DATA SUMMARY

CLIENT	: RZA AGRA, INC.	DATE SAMPLED	: N/A
PROJECT #	: BP #11060	DATE RECEIVED	: N/A
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE EXTRACTED	: N/A
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 03/08/94
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

BENZENE	<0.5
ETHYLBENZENE	<0.5
TOLUENE	<0.5
TOTAL XYLENES	<0.5
 FUEL HYDROCARBONS	 <100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	108	76 - 120
TRIFLUOROTOLUENE	101	50 - 150



ATI I.D. # 9403-045-1

BETX - GASOLINE
DATA SUMMARY

CLIENT	: RZA AGRA, INC.	DATE SAMPLED	: 03/04/94
PROJECT #	: BP #11060	DATE RECEIVED	: 03/04/94
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE EXTRACTED	: N/A
CLIENT I.D.	: CFA-06	DATE ANALYZED	: 03/08/94
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 1

COMPOUNDS

RESULTS

BENZENE	26
ETHYLBENZENE	11
TOLUENE	5.6
TOTAL XYLENES	7.6

FUEL HYDROCARBONS	710
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	106	76 - 120
TRIFLUOROTOLUENE	104	50 - 150



ATI I.D. # 9403-045-2

BETX - GASOLINE
DATA SUMMARY

CLIENT : RZA AGRA, INC.	DATE SAMPLED : 03/04/94
PROJECT # : BP #11060	DATE RECEIVED : 03/04/94
PROJECT NAME : BP #11060/FAUNTLEROY 11-09410-06	DATE EXTRACTED : N/A
CLIENT I.D. : CFC-06	DATE ANALYZED : 03/08/94
SAMPLE MATRIX : WATER	UNITS : ug/L
METHOD : WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR : 1

COMPOUNDSRESULTS

BENZENE	99
ETHYLBENZENE	11
TOLUENE	2.4
TOTAL XYLENES	10
FUEL HYDROCARBONS	1200
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	105	76 - 120
TRIFLUOROTOLUENE	106	50 - 150



ATI I.D. # 9403-045-3

BETX - GASOLINE
DATA SUMMARY

CLIENT	: RZA AGRA, INC.	DATE SAMPLED	: 03/04/94
PROJECT #	: BP #11060	DATE RECEIVED	: 03/04/94
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE EXTRACTED	: N/A
CLIENT I.D.	: CFD-06	DATE ANALYZED	: 03/08/94
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 20

COMPOUNDS

RESULTS

BENZENE	1500
ETHYLBENZENE	130
TOLUENE	20
TOTAL XYLENES	180
 FUEL HYDROCARBONS	 4300
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	104	76 - 120
TRIFLUOROTOLUENE	102	50 - 150



ATI I.D. # 9403-045-4

BETX - GASOLINE
DATA SUMMARY

CLIENT	: RZA AGRA, INC.	DATE SAMPLED	: 03/04/94
PROJECT #	: BP #11060	DATE RECEIVED	: 03/04/94
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE EXTRACTED	: N/A
CLIENT I.D.	: CFE-06	DATE ANALYZED	: 03/08/94
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 5

COMPOUNDSRESULTS

BENZENE	5.6
ETHYLBENZENE	2.7
TOLUENE	2.8
TOTAL XYLENES	11
 FUEL HYDROCARBONS	 830
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	105	76 - 120
TRIFLUOROTOLUENE	101	50 - 150



ATI I.D. # 9403-045-5

BETX - GASOLINE
DATA SUMMARY

CLIENT	: RZA AGRA, INC.	DATE SAMPLED	: N/A
PROJECT #	: BP #11060	DATE RECEIVED	: 03/04/94
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE EXTRACTED	: N/A
CLIENT I.D.	: TRIP BLANK	DATE ANALYZED	: 03/08/94
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)	DILUTION FACTOR	: 1

COMPOUNDS

RESULTS

BENZENE	<0.5
ETHYLBENZENE	<0.5
TOLUENE	<0.5
TOTAL XYLENES	<0.5
FUEL HYDROCARBONS	<100
HYDROCARBON RANGE	TOLUENE TO DODECANE
HYDROCARBON QUANTITATION USING	GASOLINE

SURROGATE PERCENT RECOVERY

LIMITS

BROMOFLUOROBENZENE	103	76 - 120
TRIFLUOROTOLUENE	101	50 - 150



ATI I.D. # 9403-045

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT	: RZA AGRA, INC.	SAMPLE I.D. #	: BLANK
PROJECT #	: BP #11060	DATE EXTRACTED	: N/A
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE ANALYZED	: 03/07/94
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)		

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.500	20.0	19.5	98	N/A	N/A	N/A
TOLUENE	<0.500	20.0	19.6	98	N/A	N/A	N/A
TOTAL XYLENES	<0.500	40.0	39.2	98	N/A	N/A	N/A
GASOLINE	<100	1000	866	87	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
BENZENE	89 - 110	10
TOLUENE	89 - 113	10
TOTAL XYLENES	89 - 111	10
GASOLINE	78 - 116	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	106	N/A	76 - 120
TRIFLUOROTOLUENE	99	N/A	50 - 150



ATI I.D. # 9403-045

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT	: RZA AGRA, INC.	SAMPLE I.D. #	: BLANK
PROJECT #	: BP #11060	DATE EXTRACTED	: N/A
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE ANALYZED	: 03/08/94
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)		

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
BENZENE	<0.500	20.0	19.3	97	N/A	N/A	N/A
TOLUENE	<0.500	20.0	19.7	99	N/A	N/A	N/A
TOTAL XYLENES	<0.500	40.0	39.0	98	N/A	N/A	N/A
GASOLINE	<100	1000	934	93	N/A	N/A	N/A

CONTROL LIMITS	% REC.	RPD
BENZENE	89 - 110	10
TOLUENE	89 - 113	10
TOTAL XYLENES	89 - 111	10
GASOLINE	78 - 116	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	107	N/A	76 - 120
TRIFLUOROTOLUENE	103	N/A	50 - 150



ATI I.D. # 9403-045

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT	: RZA AGRA, INC.	SAMPLE I.D. #	: 9403-077-1
PROJECT #	: BP #11060	DATE EXTRACTED	: N/A
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE ANALYZED	: 03/08/94
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)		

COMPOUNDS	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
GASOLINE	<100	<100	NC	N/A	N/A	N/A	N/A	N/A	N/A
CONTROL LIMITS						% REC.			RPD
GASOLINE						N/A			20
SURROGATE RECOVERIES				SAMPLE		SAMPLE DUP.		LIMITS	
TRIFLUOROTOLUENE				101		101		50 - 150	



ATI I.D. # 9403-045

BETX - GASOLINE
QUALITY CONTROL DATA

CLIENT	: RZA AGRA, INC.	SAMPLE I.D. #	: 9403-068-4
PROJECT #	: BP #11060	DATE EXTRACTED	: N/A
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE ANALYZED	: 03/08/94
SAMPLE MATRIX	: WATER	UNITS	: ug/L
METHOD	: WA DOE WTPH-G/8020 (BETX)		

COMPOUNDS	SAMPLE RESULT	SAMPLE DUP. RESULT	RPD	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED RESULT	DUP. % REC.	RPD
BENZENE	<0.500	N/A	N/A	20.0	20.0	100	19.9	100	1
TOLUENE	<0.500	N/A	N/A	20.0	19.7	99	19.8	99	1
TOTAL XYLENES	<0.500	N/A	N/A	40.0	38.8	97	38.8	97	0
GASOLINE	<100	<100	NC	1000	947	95	950	95	0

CONTROL LIMITS	% REC.	RPD
BENZENE	86 - 113	10
TOLUENE	87 - 114	10
TOTAL XYLENES	85 - 113	10
GASOLINE	80 - 113	20

SURROGATE RECOVERIES	SPIKE	DUP. SPIKE	LIMITS
BROMOFLUOROBENZENE	104	102	76 - 120
TRIFLUOROTOLUENE	102	103	50 - 150

NC = Not Calculable.



ATI I.D. # 9403-045

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: RZA AGRA, INC.	DATE SAMPLED	: N/A
PROJECT #	: BP #11060	DATE RECEIVED	: N/A
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE EXTRACTED	: 03/04/94
CLIENT I.D.	: METHOD BLANK	DATE ANALYZED	: 03/04/94
SAMPLE MATRIX	: WATER	UNITS	: mg/L
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

FUEL HYDROCARBONS	<0.25
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	95	50 - 150
-------------	----	----------



ATT I.D. # 9403-045-1

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: RZA AGRA, INC.	DATE SAMPLED	: 03/04/94
PROJECT #	: BP #11060	DATE RECEIVED	: 03/04/94
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE EXTRACTED	: 03/04/94
CLIENT I.D.	: CFA-06	DATE ANALYZED	: 03/05/94
SAMPLE MATRIX	: WATER	UNITS	: mg/L
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

FUEL HYDROCARBONS	0.42
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	101	50 - 150
-------------	-----	----------



ATI I.D. # 9403-045-2

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: RZA AGRA, INC.	DATE SAMPLED	: 03/04/94
PROJECT #	: BP #11060	DATE RECEIVED	: 03/04/94
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE EXTRACTED	: 03/04/94
CLIENT I.D.	: CFC-06	DATE ANALYZED	: 03/05/94
SAMPLE MATRIX	: WATER	UNITS	: mg/L
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

FUEL HYDROCARBONS	0.59
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	106	50 - 150
-------------	-----	----------



ATI I.D. # 9403-045-3

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: RZA AGRA, INC.	DATE SAMPLED	: 03/04/94
PROJECT #	: BP #11060	DATE RECEIVED	: 03/04/94
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE EXTRACTED	: 03/04/94
CLIENT I.D.	: CFD-06	DATE ANALYZED	: 03/05/94
SAMPLE MATRIX	: WATER	UNITS	: mg/L
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

FUEL HYDROCARBONS	1.3
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	110	50 - 150
-------------	-----	----------



ATI I.D. # 9403-045-4

TOTAL PETROLEUM HYDROCARBONS
DATA SUMMARY

CLIENT	: RZA AGRA, INC.	DATE SAMPLED	: 03/04/94
PROJECT #	: BP #11060	DATE RECEIVED	: 03/04/94
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE EXTRACTED	: 03/04/94
CLIENT I.D.	: CFE-06	DATE ANALYZED	: 03/05/94
SAMPLE MATRIX	: WATER	UNITS	: mg/L
METHOD	: WA DOE WTPH-D	DILUTION FACTOR	: 1

COMPOUNDSRESULTS

FUEL HYDROCARBONS	0.58
HYDROCARBON RANGE	C12 - C24
HYDROCARBON QUANTITATION USING	DIESEL

SURROGATE PERCENT RECOVERY

LIMITS

O-TERPHENYL	106	50 - 150
-------------	-----	----------



Analytical Technologies, Inc.

ATT I.D. # 9403-045

TOTAL PETROLEUM HYDROCARBONS
QUALITY CONTROL DATA

CLIENT	: RZA AGRA, INC.	SAMPLE I.D. #	: BLANK
PROJECT #	: BP #11060	DATE EXTRACTED	: 03/04/94
PROJECT NAME	: BP #11060/FAUNTLEROY 11-09410-06	DATE ANALYZED	: 03/04/94
SAMPLE MATRIX	: WATER	UNITS	: mg/L
METHOD	: WA DOE WTPH-D		

COMPOUNDS	SAMPLE RESULT	SPIKE ADDED	SPIKED RESULT	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
DIESEL	<0.250	2.50	2.29	92	2.58	103	12
CONTROL LIMITS				% REC.			RPD
DIESEL				70 - 114			20
SURROGATE RECOVERIES		SPIKE		DUP. SPIKE		LIMITS	
O-TERPHENYL		90		103		50 - 150	



ATI I.D. # 9403-045

METALS ANALYSIS

CLIENT : RZA AGRA, INC. MATRIX : WATER
PROJECT # : BP #11060
PROJECT NAME : BP #11060/FAUNTLEROY 11-09410-06

ELEMENT	DATE PREPARED	DATE ANALYZED
LEAD (SAMPLES -1T, -2T -3T, -1D THROUGH -4D)	03/08/94	03/10/94
LEAD (SAMPLE -4T)	03/08/94	03/11/94



ATI I.D. # 9403-045

METALS ANALYSIS
DATA SUMMARY

CLIENT : RZA AGRA, INC. MATRIX : WATER
PROJECT # : BP #11060
PROJECT NAME : BP #11060/FAUNTLEROY 11-09410-06 UNITS : mg/L

ATI I.D. #	CLIENT I.D.	LEAD (TOTAL)	LEAD (DISSOLVED)
9403-045-1	CFA-06	0.027	<0.0030
9403-045-2	CFC-06	0.0043	<0.0030
9403-045-3	CFD-06	0.0049	<0.0030
9403-045-4	CFE-06	0.038	<0.0030
METHOD BLANK	-	<0.0030	<0.0030



ATI I.D. # 9403-045

METALS ANALYSIS
QUALITY CONTROL DATA

CLIENT : RZA AGRA, INC. MATRIX : WATER
 PROJECT # : BP #11060
 PROJECT NAME : BP #11060/FAUNTLEROY 11-09410-06 UNITS : mg/L

ELEMENT	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
LEAD	BLANK	<0.0030	N/A	N/A	0.0233	0.0250	93
LEAD	9403-045-1D	<0.0030	<0.0030	NC	N/A	N/A	N/A
LEAD	9403-045-2D	<0.0030	N/A	N/A	0.0240	0.0250	96

NC = Not Calculable.

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{|(\text{Sample Result} - \text{Duplicate Result})|}{\text{Average Result}} \times 100$$

Analytical**Technologies**,Inc.

ATI I.D. # 9403-045

GENERAL CHEMISTRY ANALYSIS

CLIENT : RZA AGRA, INC. MATRIX : WATER
PROJECT # : BP #11060
PROJECT NAME : BP #11060/FAUNTLEROY 11-09410-06

PARAMETER DATE ANALYZED

TURBIDITY 03/04/94



ATI I.D. # 9403-045

GENERAL CHEMISTRY ANALYSIS
DATA SUMMARY

CLIENT : RZA AGRA, INC. MATRIX : WATER
PROJECT # : BP #11060
PROJECT NAME : BP #11060/FAUNTLEROY 11-09410-06 UNITS : NTU

ATI I.D. # CLIENT I.D. TURBIDITY

9403-045-1	CFA-06	180
9403-045-2	CFC-06	80
9403-045-3	CFD-06	250
9403-045-4	CFE-06	550
METHOD BLANK	-	<1



ATI I.D. # 9403-045

GENERAL CHEMISTRY ANALYSIS
QUALITY CONTROL DATA

CLIENT : RZA AGRA, INC. MATRIX : WATER
 PROJECT # : BP #11060
 PROJECT NAME : BP #11060/FAUNTLEROY 11-09410-06 UNITS : NTU

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP RESULT	RPD	SPIKED RESULT	SPIKE ADDED	% REC
TURBIDITY	9403-039-1	600	590	2	N/A	N/A	N/A

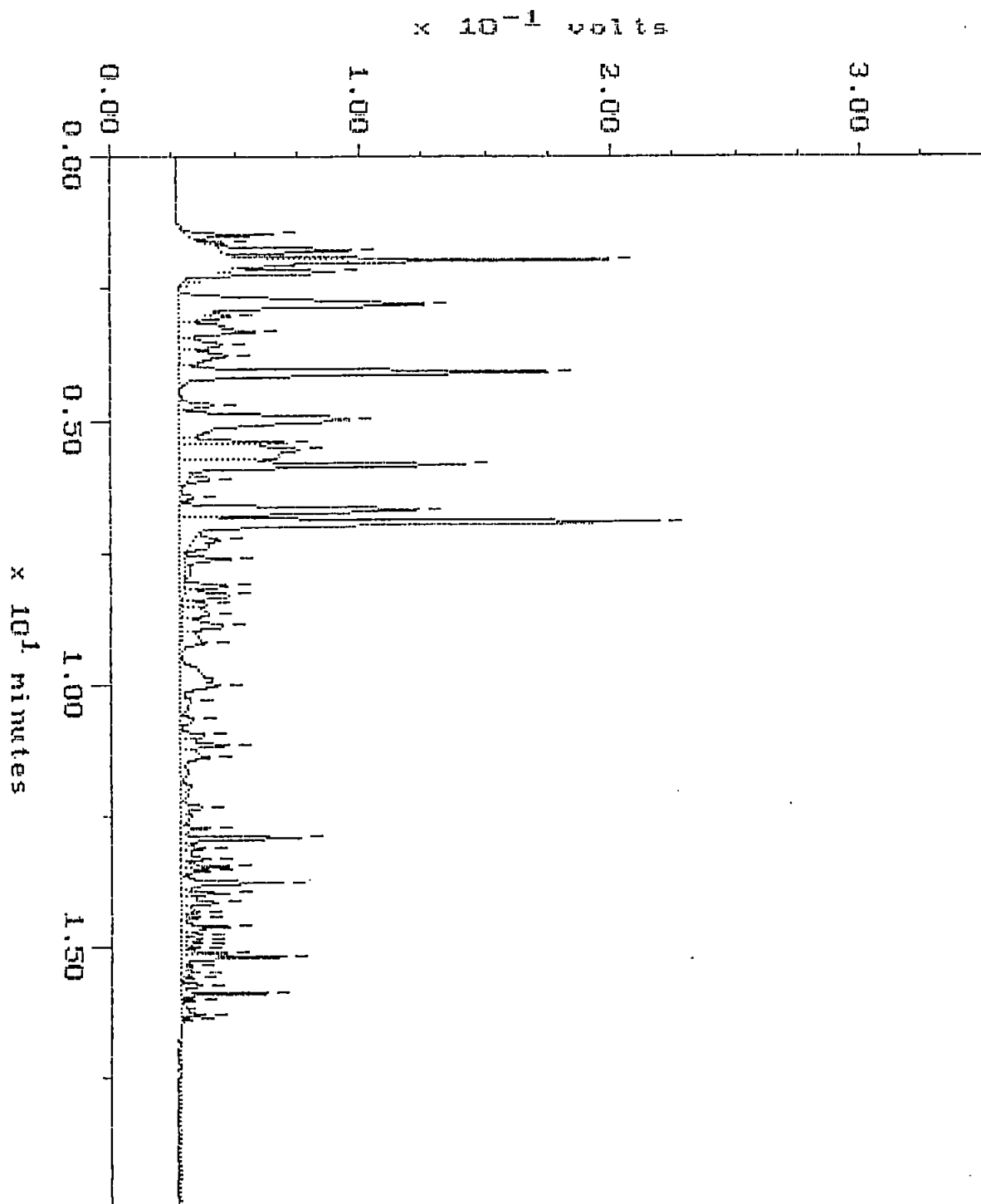
$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{|(\text{Sample Result} - \text{Duplicate Result})|}{\text{Average Result}} \times 100$$

WA DOE WTPH-G

Sample: 9403-045-1 Channel: FID
Acquired: 08-MAR-94 18:36 Method: F:\BRO2\MAXDATA\PICARD\030894PC
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

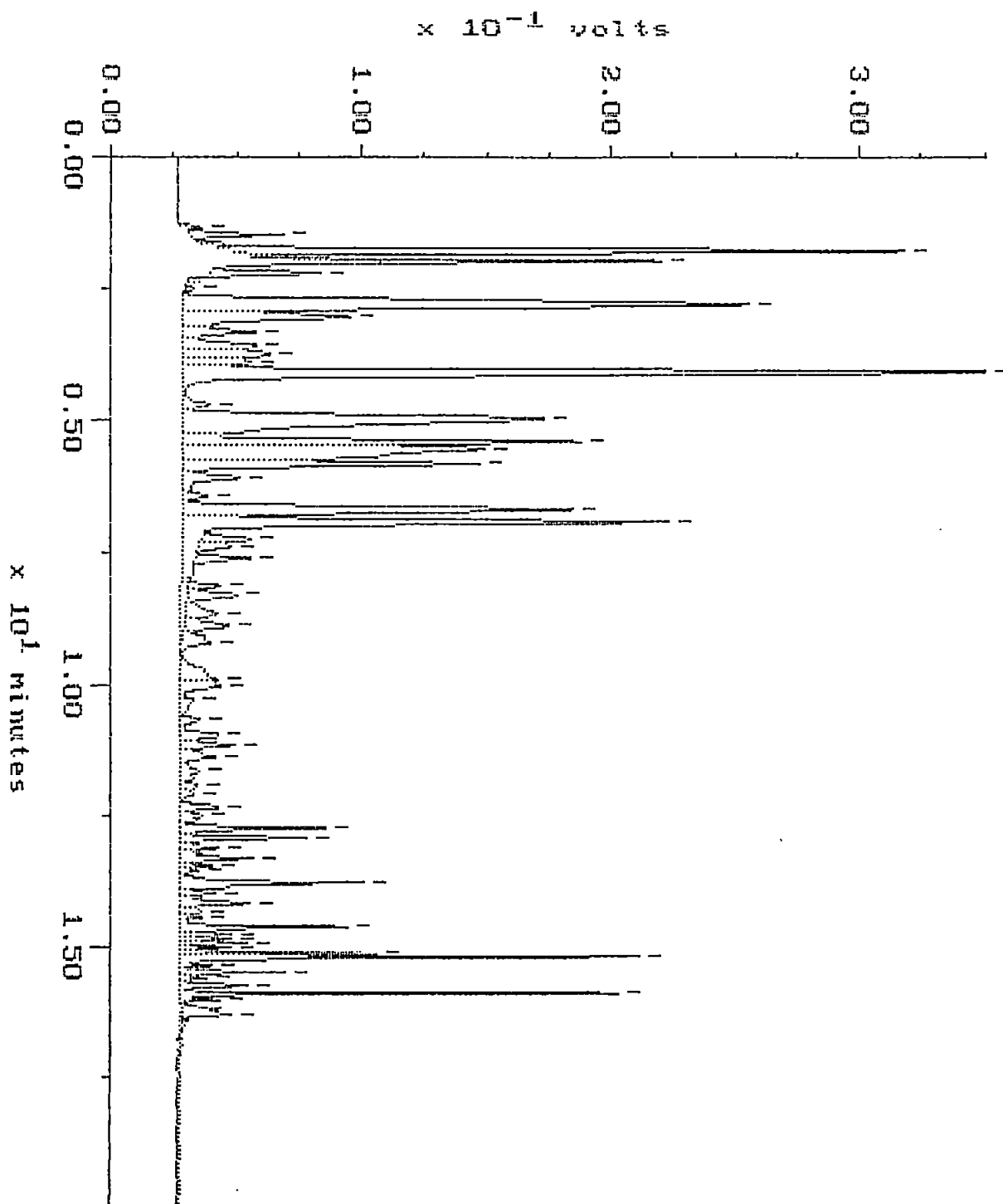
Filename: R3059P20
Operator: ATI



WA DOE WTPH-G

Sample: 9403-045-2 Channel: FID
Acquired: 08-MAR-94 18:06 Method: F:\BRO2\MAXDATA\PICARD\030894PC
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

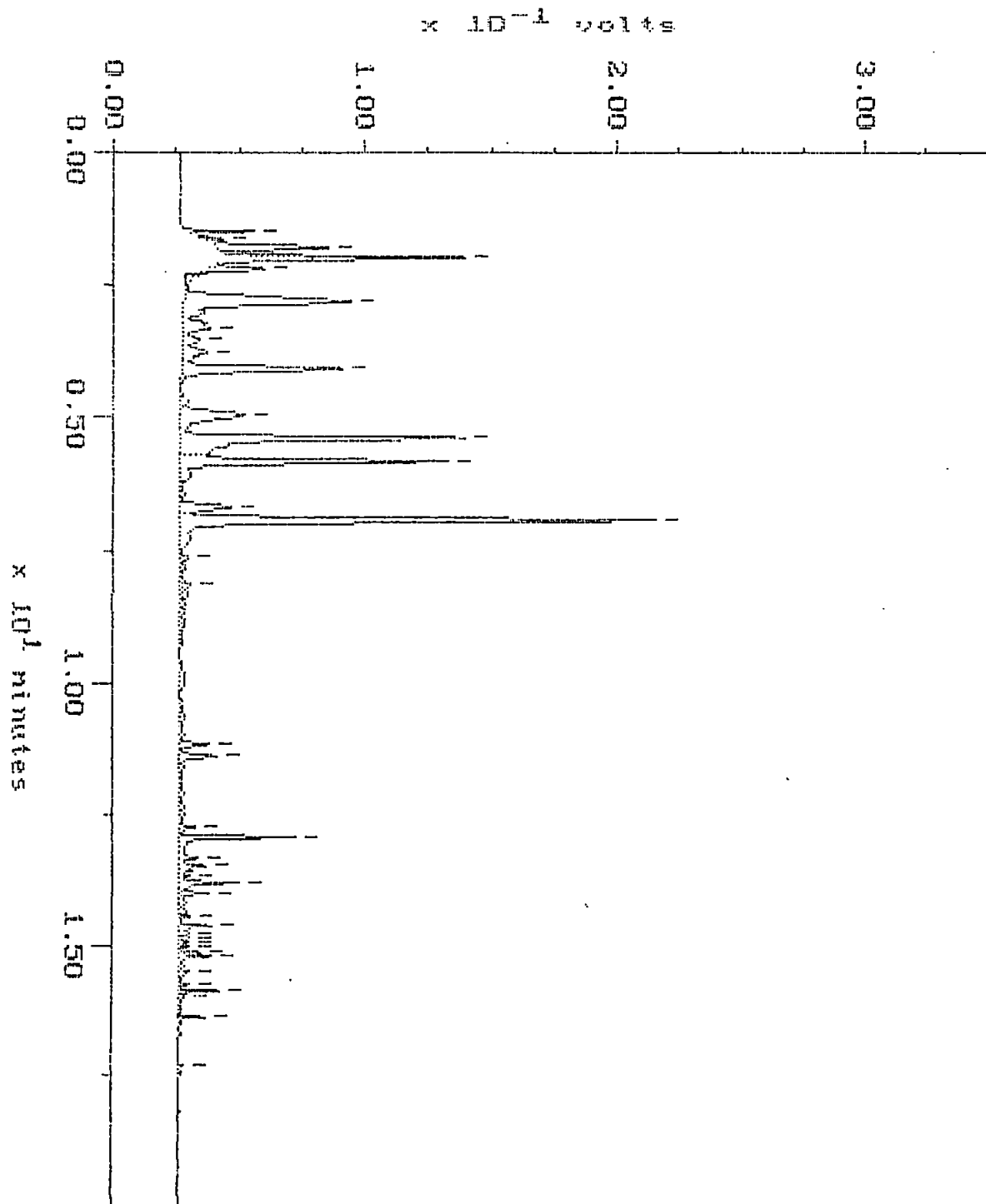
Filename: R3089P19
Operator: ATI



WA DOE WTPH-G

Sample: 9403-045-3 DIL Channel: FID
Acquired: 08-MAR-94 4:13 Method: F:\BP02\MAXDATA\PCARD\030794PC
Dilution: 1 : 20.000
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

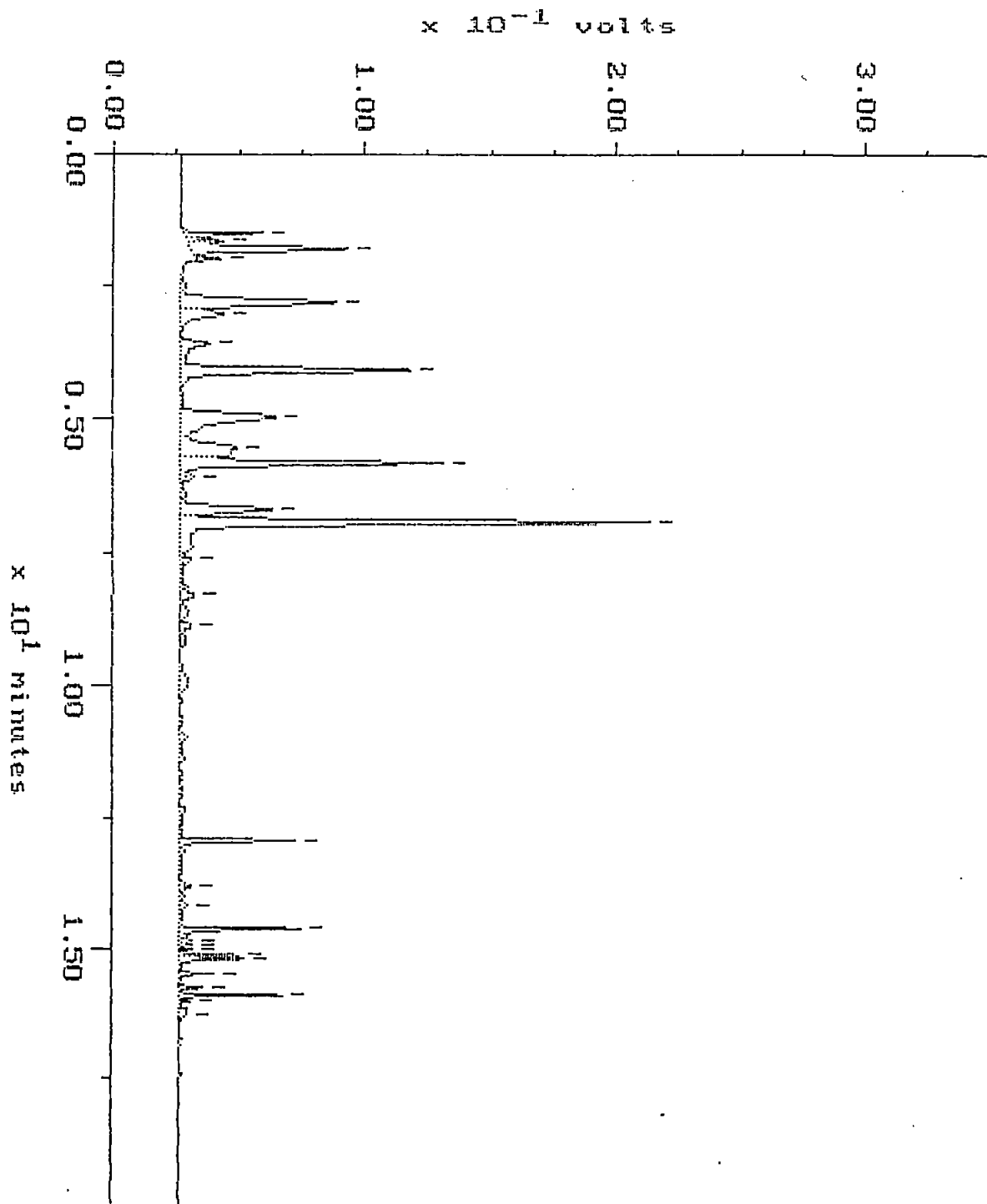
Filename: R3079P37
Operator: ATI



WA DOE WTPH-G

Sample: 9403-045-4 DIL Channel: FID
Acquired: 08-MAR-94 17:36 Method: F:\BRO2\MAXDATA\PICARD\030694PC
Dilution: 1 : 5.000
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

Filename: R3089P18
Operator: ATI

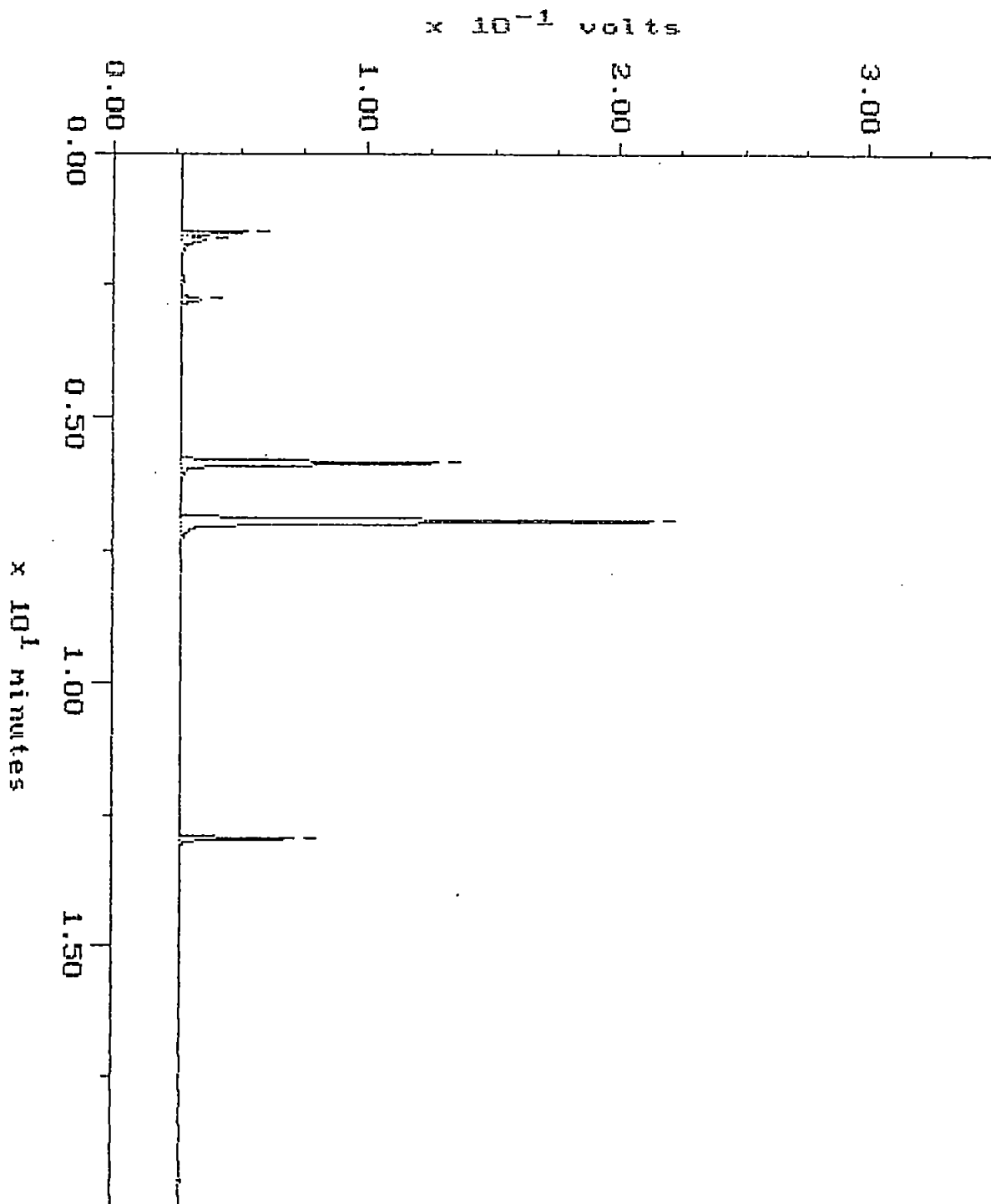


WA DOE WTPH-G

Blank

Sample: WRB 3-7 Channel: FID
 Acquired: 07-MAR-94 9:58 Method: F:\BRO2\MAXDATA\FICARD\030794PC
 Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

Filename: R3079P03
 Operator: ATI

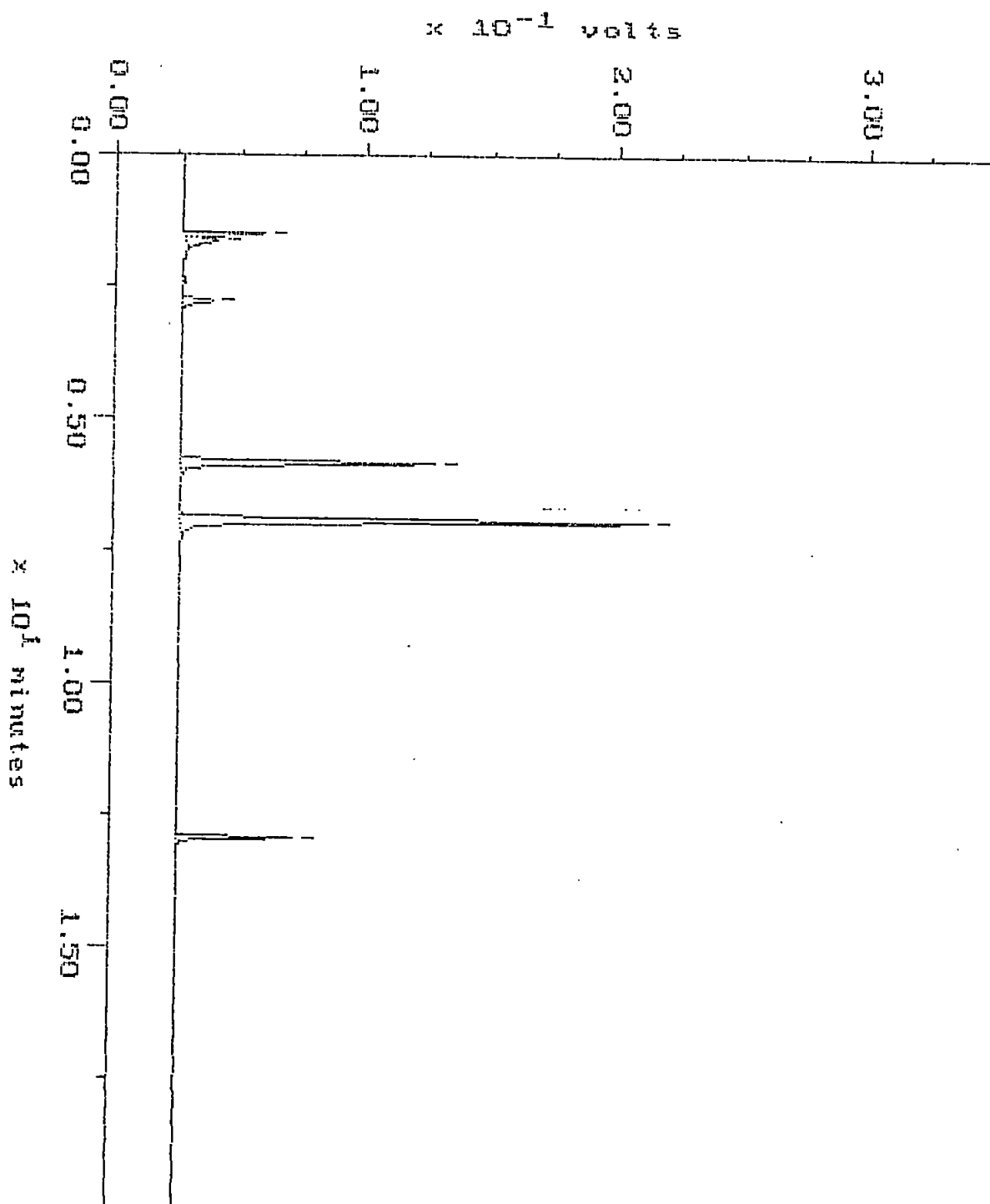


Blank

WA DOE WTPH-G

Sample: WRB 3-8 Channel: FID
Acquired: 08-MAR-94 9:34 Method: F:\2F02\MAXDATA\PICARD\030894PC
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

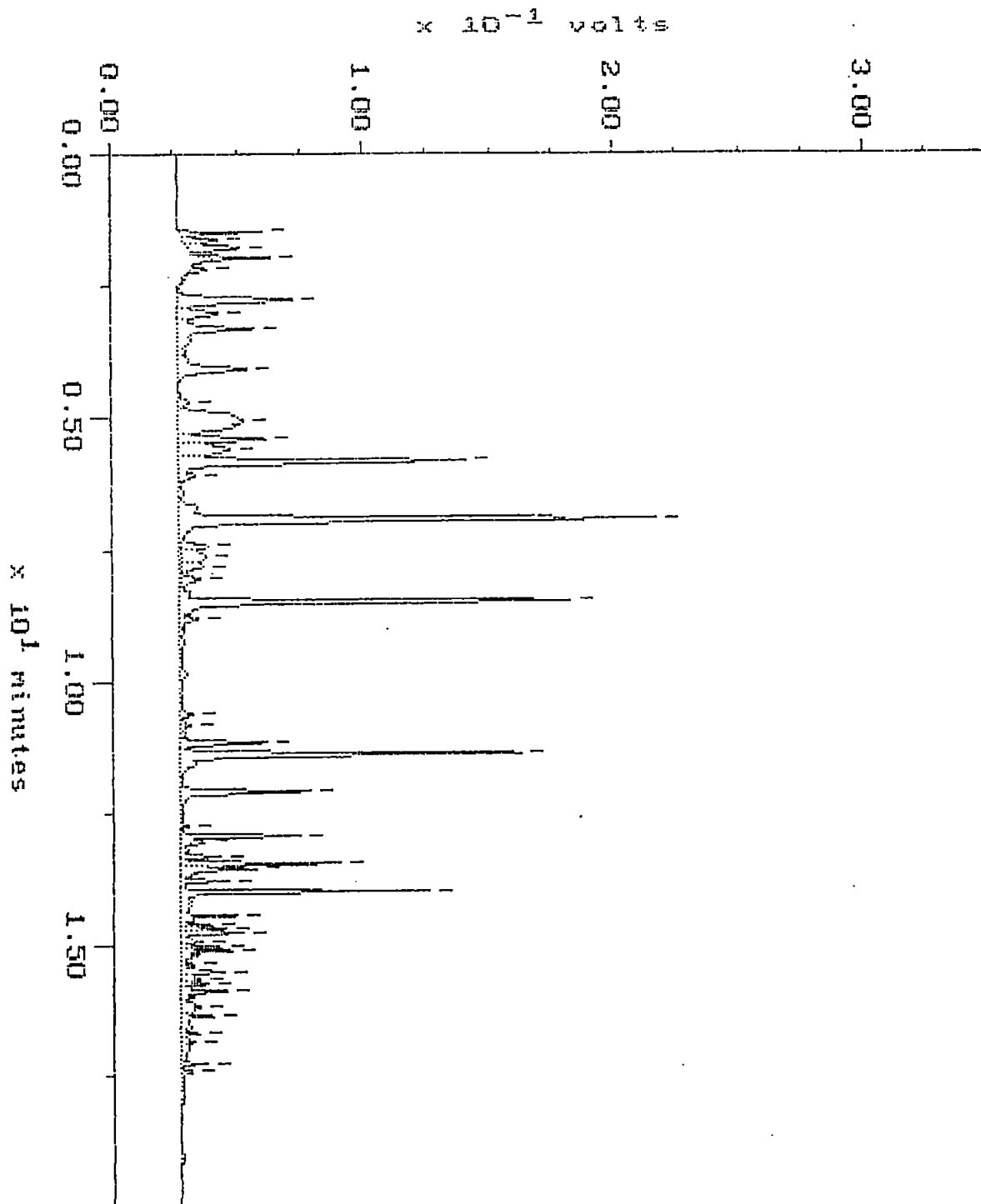
Filename: R3089P01
Operator: ATI



Continuing Calibration

Sample: STD-C 6 Channel: FID
Acquired: 07-MAR-94 9:33 Method: F:\BRO2\MAXDATA\PICARD\030794PC
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

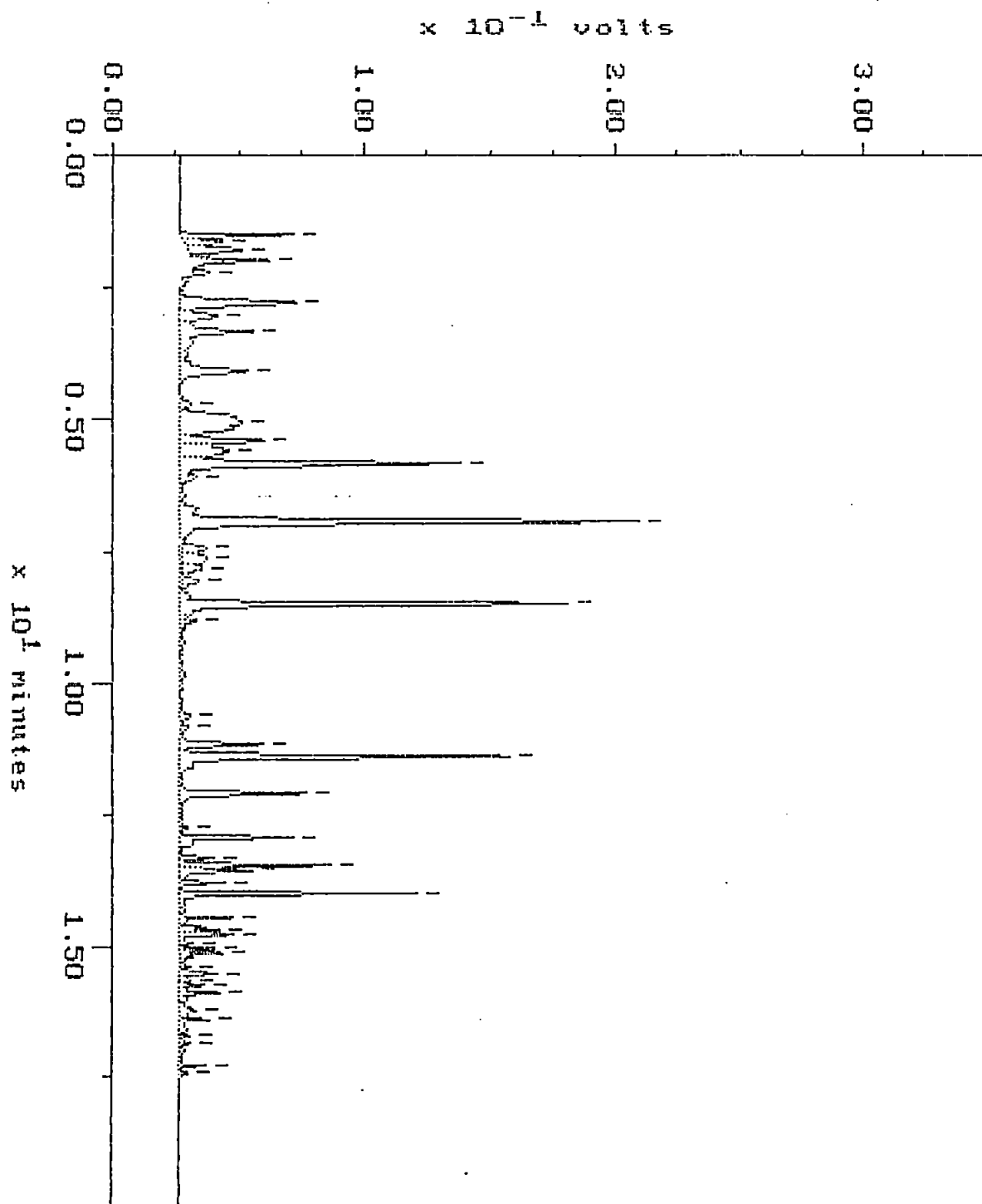
Filename: R3079P01
Operator: ATI



Continuing Calibration

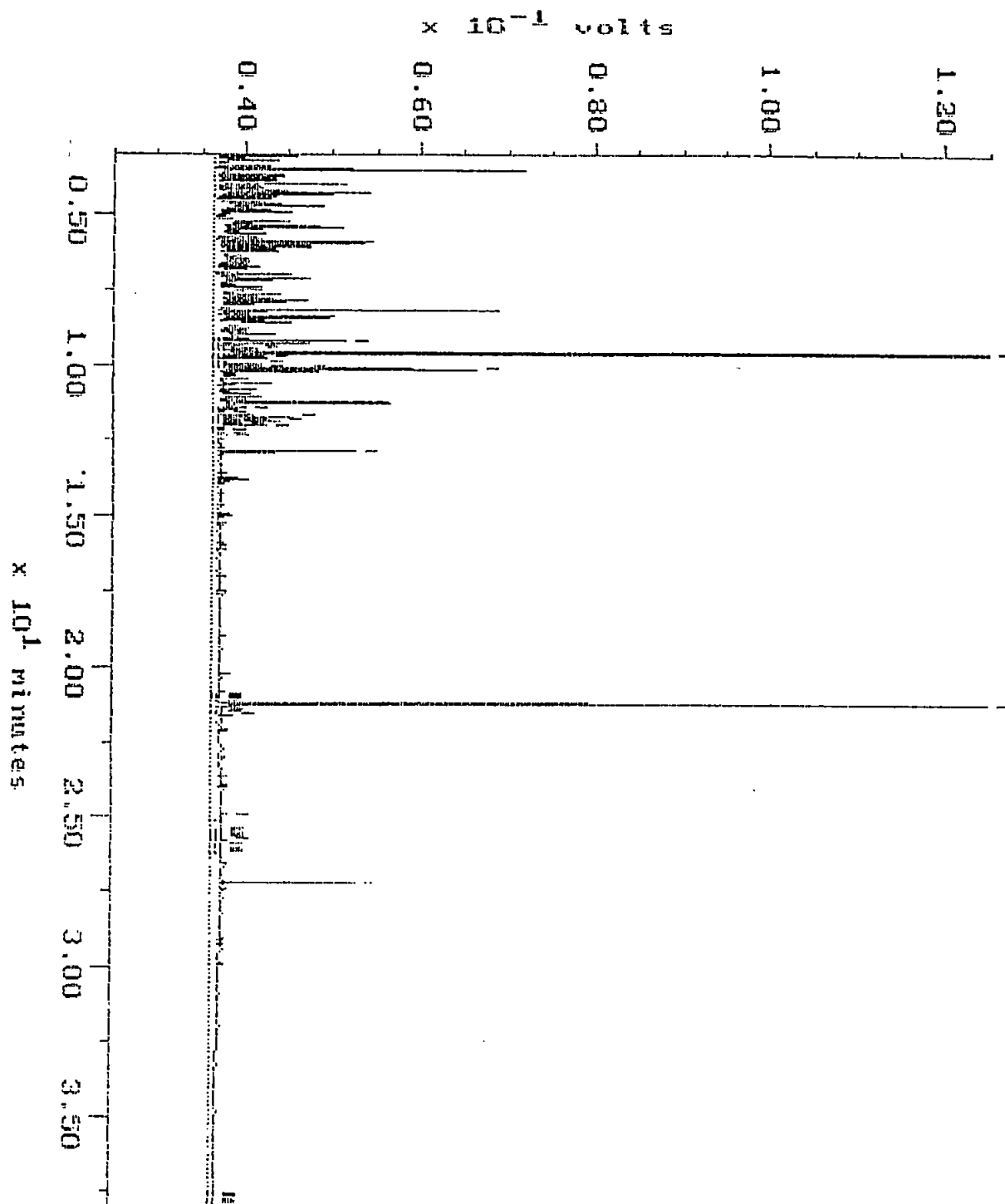
Sample: STD C G Channel: FID
Acquired: 08-MAR-94 16:06 Method: F:\BRO2\MAXDATA\PICARD\030894FC
Comments: ATI FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY.

Filename: R3089P15
Operator: ATI



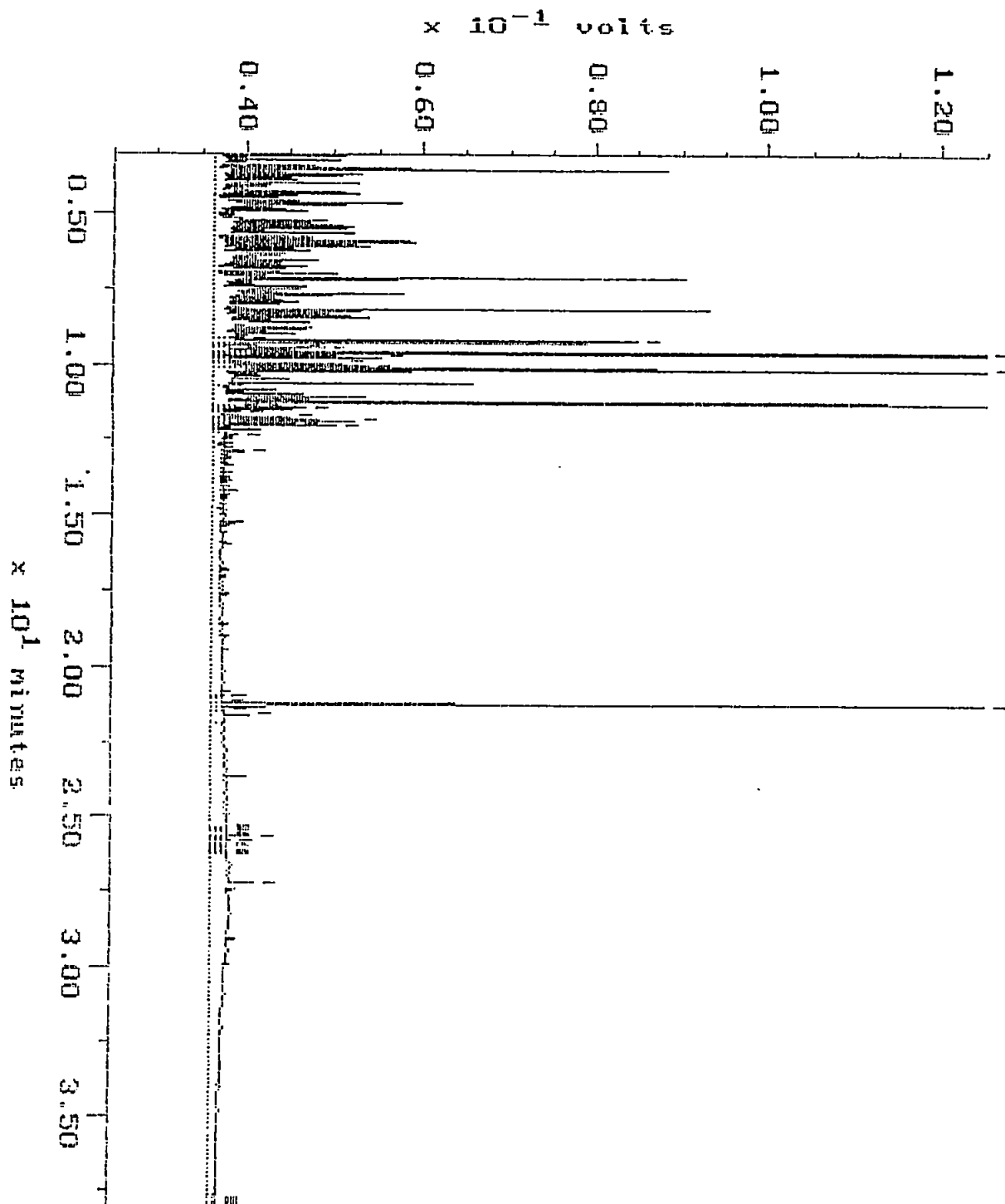
WALOE WTPH-D

Sample: 9403-045-1 Channel: DEMITRI Filename: R3048D13
Acquired: 05-MAR-94 0:54 Method: F:\BRO2\MAXDATA\SERGE-D\FUEL0304 Operator: ATI
Comments: ATI RUSH FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY



WALDEMAR-D

Sample: 9403-045-2 Channel: DEMITRI Filename: R3048517
 Acquired: 05-MAR-94 4:00 Method: F:\BRO2\MAXDATA\SERGE-DAFUEL0304 Operator: ATI
 Comments: ATI RUSH FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY



VALU SE WITH H-D

Sample: 9403-045-3

Channel: DEMITRI

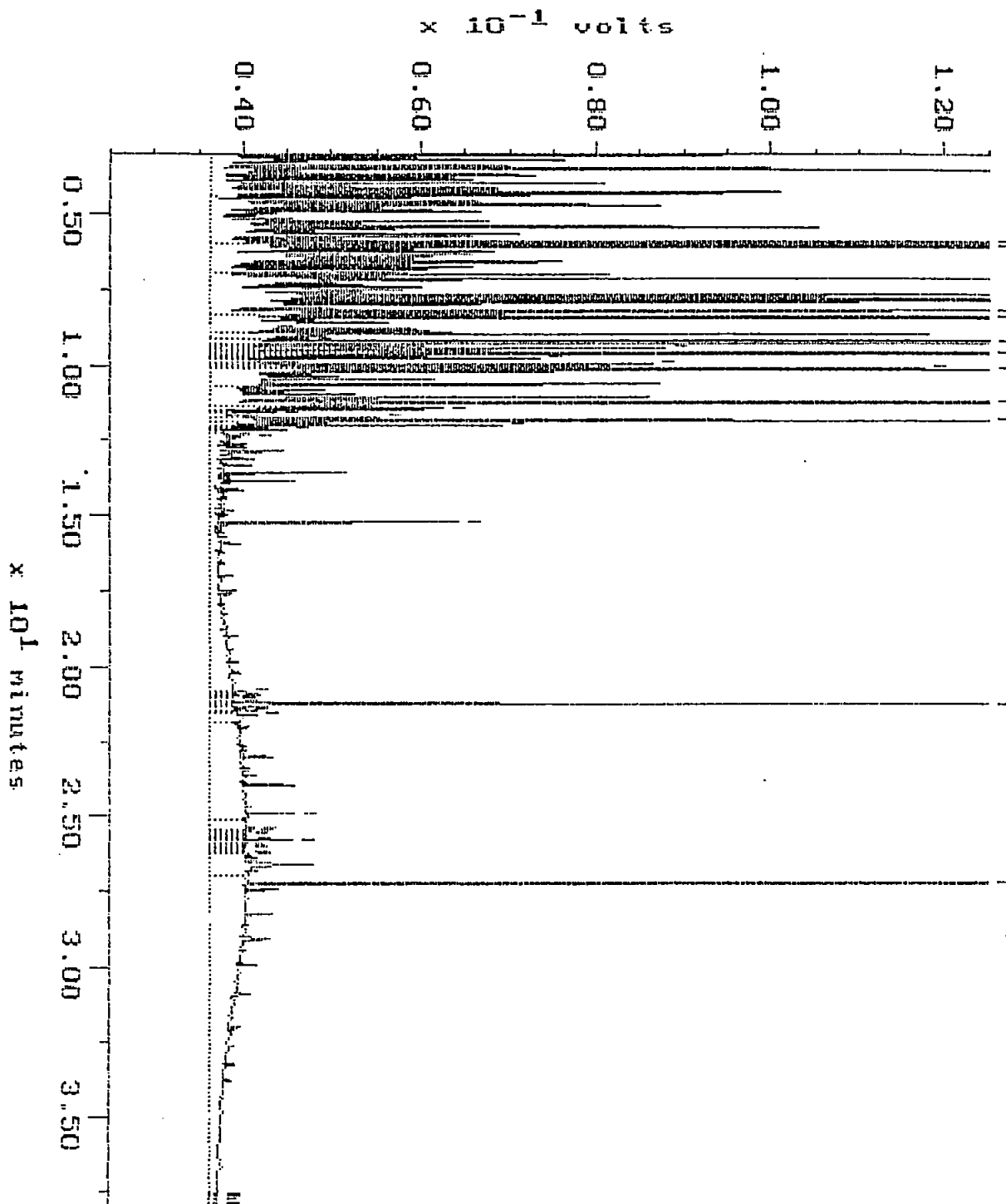
Filename: R3048D21

Acquired: 05-MAR-94 7:06

Method: F:\8802\MAXDATA\SERGE-D\FUEL0304

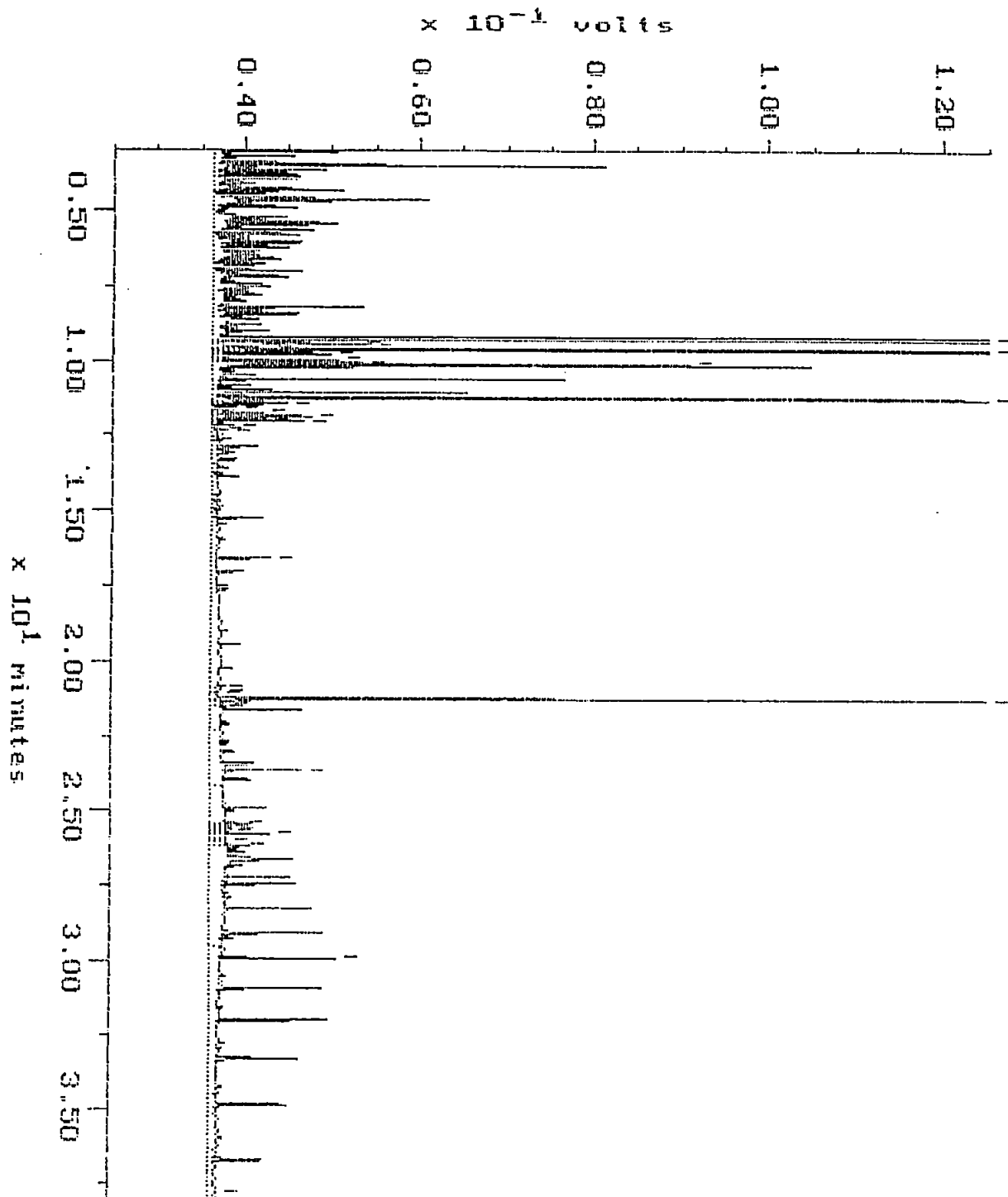
Operator: ATI

Comments: ATI RUSH FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY



VALUATION

Sample: 9403-045-4 Channel: DEMITR1 Filename: R3048022
 Acquired: 05-MAR-94 7:53 Method: F:\BRO2\MAXDATA\SERGE-DAFUEL0304 Operator: ATI
 Comments: ATI RUSH FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY

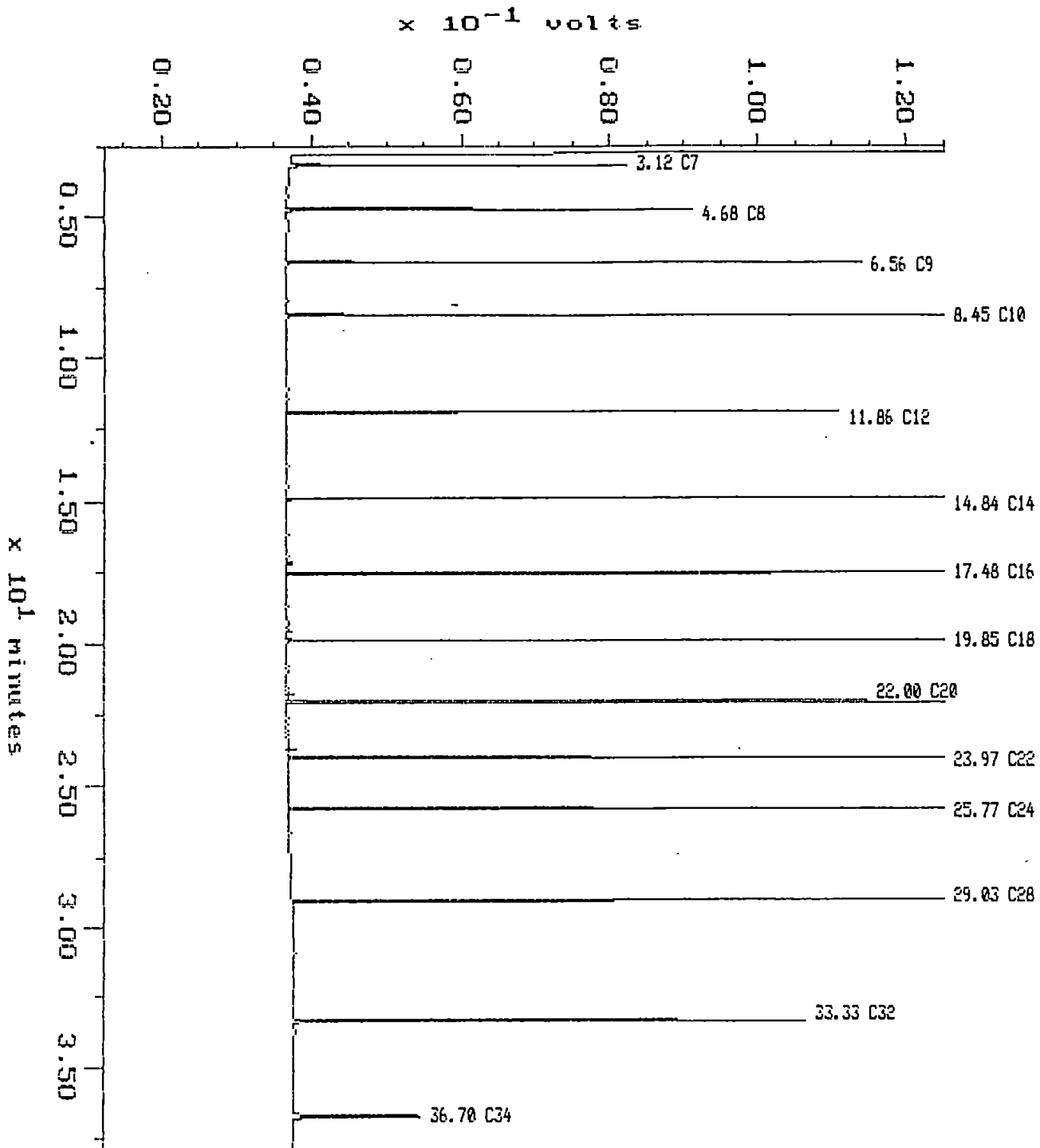


Alkane

Sample: ALKANE
Acquired: 28-FEB-94 13:07
Inj Vol: 1.00

Channel: DEMITRI
Method: F:\BRO2\MAXDATA\SERGE-D\FUEL0228

Filename: R2288D02
Operator: ATI



WALCE WIPH-D

Blank

Sample: WRB 03-04

Channel: DEMITRI

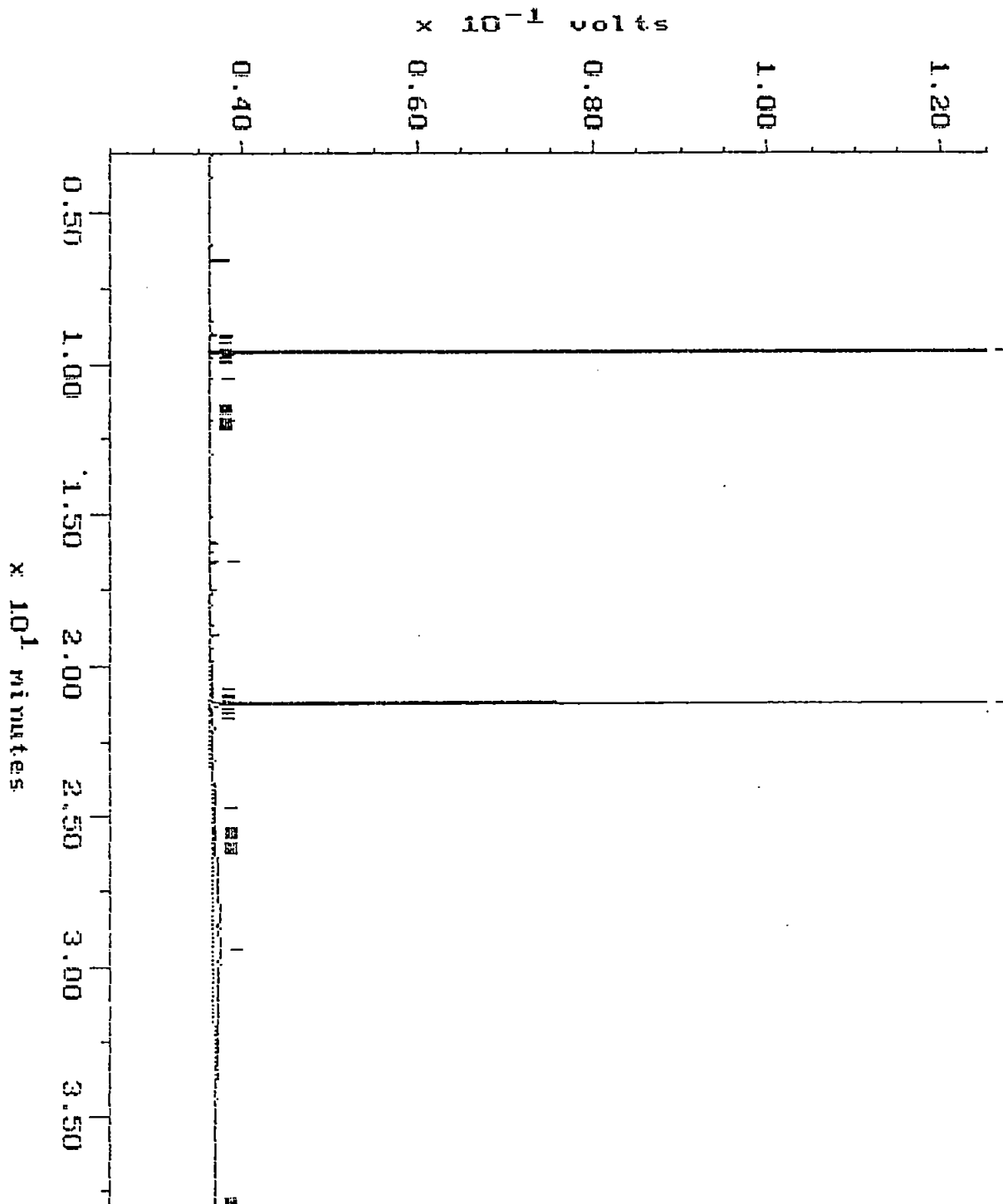
Filename: R3048D04

Acquired: 04-MAR-94 17:54

Method: F:\BRO2\MAXDATA\SERGE-D\FUEL0304

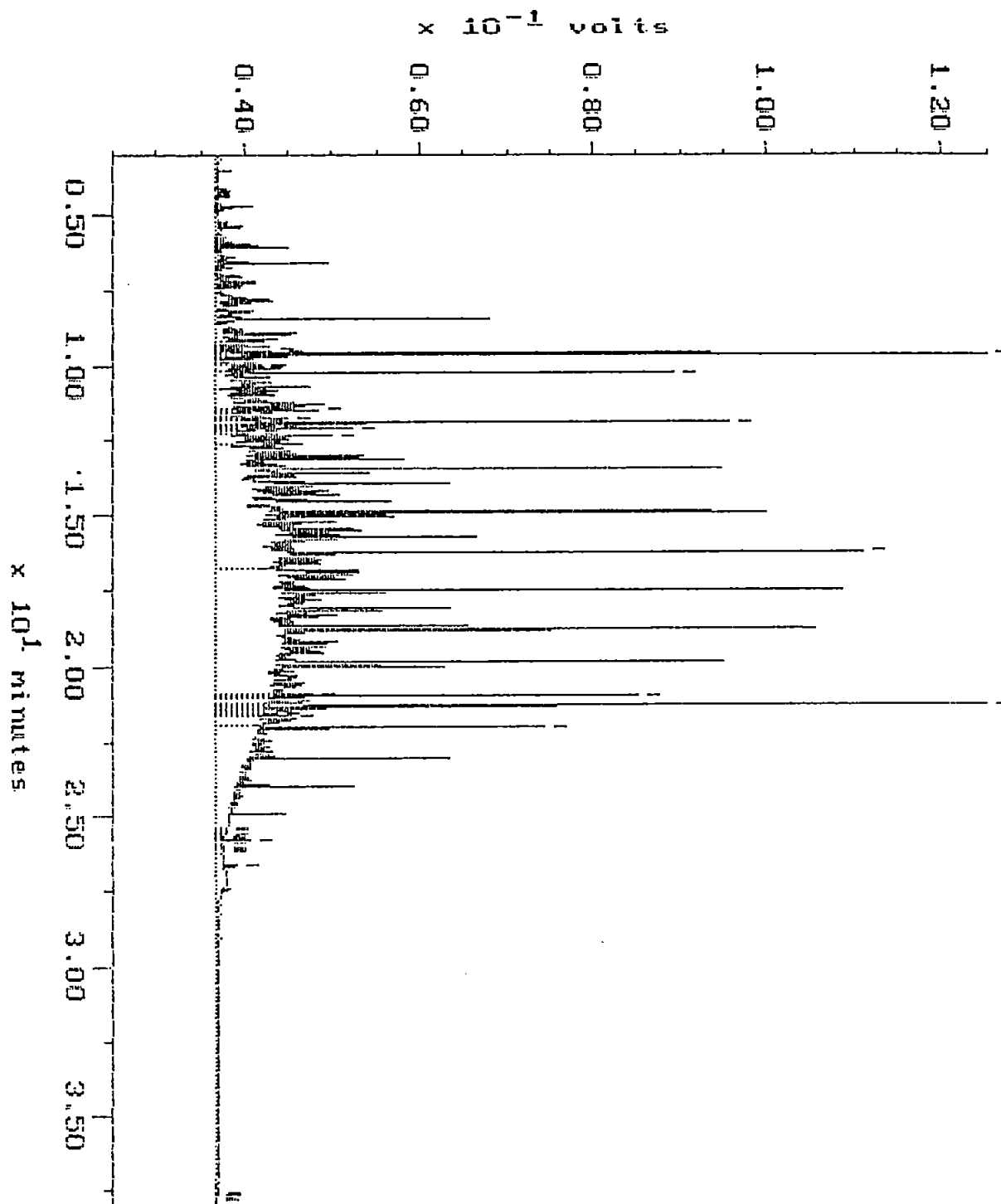
Operator: ATI

Comments: ATI RUSH FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY



Continuing Calibration

Sample: D 500 Channel: DEMITRI Filename: R3048D02
Acquired: 04-MAR-94 16:20 Method: F:\BRO2\MAXDATA\SERGE-D\FUEL0304 Operator: ATI
Comments: ATI RUSH FUELS: A MISSION OF EXCELLENCE IN ANALYTICAL CHROMATOGRAPHY





9403
9804.045

CHAIN OF CUSTODY

No 053246

Page 1 of 1

CONSULTANT'S NAME RZA AGRA		ADDRESS 11335 NE 12th Way, Suite 100, Kirkland, WA 98034		CITY WA	STATE WA	ZIP CODE 98034
BP SITE NUMBER 11060	BP CORNER ADDRESS/CITY 4580 Fawcett Way SW, Seattle WA			CONSULTANT PROJECT NUMBER 11-9410-06		
CONSULTANT PROJECT MANAGER Bob Crnja		PHONE NUMBER (206) 820-4669	FAX NUMBER (206) 821-3914	CONSULTANT CONTRACT NUMBER Per Pete De Santis		
BP CONTACT Pete De Santis	BP ADDRESS 295 SW 41st St. Renton WA	PHONE NUMBER (206) 251-8209	FAX NO. (206) 251-0736			
LAB CONTACT Dane Sprue - ATI	LABORATORY ADDRESS 560 Naches Ave SW, Renton WA	PHONE NUMBER (206) 228-8335	FAX NO. (206) 363-1742			
SAMPLED BY (Please Print Name) Jeffrey Kasper		SAMPLED BY (Signature) <i>[Signature]</i>		SHIPMENT DATE 3/4/94		SHIPMENT METHOD

TAT: ☒ 24 Hours ☐ 48 Hours ☐ 1 Week ☐ Standard 2 Weeks

ANALYSIS REQUIRED

AIRBILL NUMBER

SAMPLE DESCRIPTION	COLLECTION DATE	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	HCl	HNO3	None	None	None						COMMENTS
	COLLECTION TIME		NO.	TYPE (VOL.)	LAB SAMPLE #											
CFA-06	3/4/94	W	6	XX	1	X	X	X	X	X						
CFC-06	3/4/94	W	6	XX	2	X	X	X	X	X						
CED-06	3/4/94	W	6	XX	3	X	X	X	X	X						
CFF-06	3/4/94	W	6	XX	4	X	X	X	X	X						
Trip Blank	3/4/94	W	2	400ml	5	X										

RELINQUISHED BY / AFFILIATION <i>[Signature]</i> RZA AGRA	DATE 3/8/94	TIME 1:10	ACCEPTED BY / AFFILIATION <i>[Signature]</i>	DATE 3/4/94	TIME 1310	ADDITIONAL COMMENTS * TAT as per BP/ATI Contract ** 2,400ml Vials; 3, 500ml plastic; 1, 1 Liter glass Filter and pressure dissolved lead Samples upon Receipt
--	-----------------------	---------------------	---	-----------------------	---------------------	---

APPENDIX A
FIELD PROCEDURES



APPENDIX A

(11-09410-06)

FIELD PROCEDURES

Groundwater Monitoring

Depth to water measurements are taken in all wells prior to purging and sampling in order of least impacted to most impacted when this data is available. Before taking depth to water measurements, well caps are removed to allow equalization of air pressure and stabilization of the groundwater surface. Measurements are made with an Interface probe for wells with liquid petroleum hydrocarbons (LPH), or with a water analyzer for wells with no free product. All instruments are decontaminated with Alconox soap and rinsed with deionized water prior to measuring groundwater levels. If LPH is detected in the well, the instruments are decontaminated using isopropyl alcohol prior to scrubbing with the Liquinox solution. Measurements are made from a marked point at the top of the well casing. If no mark is identified, the measurement is made to the highest point on the well casing.

Groundwater Sampling

Casing volumes are calculated based on the amount of standing water in the well and the diameter of the well casing. Groundwater parameters (temperature, conductivity, pH) are then monitored until stable to verify that groundwater representative of the formation is being sampled. The groundwater parameters are considered to be stable when three successive measurements are made within the following ranges: Temperature: $\pm 0.5^{\circ}\text{C}$; Conductivity: $\pm 10\%$ of scale range; and pH: ± 0.1 pH unit.

Prior to sampling the monitoring wells were purged of approximately three to five well casing volumes of groundwater using a stainless steel or PVC bailer. The bailer used for purging was decontaminated between each well by scrubbing with a stiff brush and a solution of Liquinox and potable water. After scrubbing, the bailer was rinsed with potable water followed by de-ionized water. If a sheen or LPH was observed on the purge water, the bailer was rinsed with isopropyl alcohol prior to scrubbing with the Liquinox solution. Purge water from this sampling event was transported to RZA AGRA's Kirkland, Washington facility for treatment and disposal.

A new disposable bailer was used to collect each groundwater sample. The samples were decanted from the bailers into laboratory prepared containers. Each container was labeled, placed into a chilled cooler, and transported to Analytical Technologies Inc. (ATI), of Renton, Washington to be analyzed for the following compounds:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020;
- Gasoline range petroleum hydrocarbons ($\text{C}_7\text{-C}_{12}$) by Ecology Method WTPH-G;
- Diesel range petroleum hydrocarbons ($\text{C}_{12}\text{-C}_{24}$) by Ecology Method WTPH-D;
- Total and Dissolved lead by EPA Method 7421; and,
- Turbidity by EPA Method 180.1.

