



# GETTLER-RYAN INC.

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August 14, 1997

Mr. Roger S. Gaither  
Redwood Christian Schools  
4200 James Avenue  
Castro Valley, California 94546

**Subject: Soil Sampling at an 8 Acre Parcel and Adjacent 4 Acre Parcel  
East Castro Valley Boulevard, Castro Valley, California.**

Mr. Gaither:

At the request of Redwood Christian Schools, Gettler-Ryan Inc. (GR) conducted a soil investigation at the above referenced site. The purpose was to evaluate whether the soil at the upper and lower terraces of an eight acre parcel and an adjacent four acre parcel has been impacted by petroleum hydrocarbons. The scope of work included collecting and analyzing soil samples from the upper and lower terraces and adjacent parcel and preparing a report documenting the work.

## **SITE DESCRIPTION**

The subject site (the eight acre parcel) is a vacant parcel located southwest of the intersection of East Castro Valley Boulevard and Eden Canyon Road (Figure 1). There are currently no existing structures present at the site. A concrete slab is present on the upper terrace, along with debris from a former wooden structure. A single-wall above-ground steel tank is located at the west end of the subject site. This tank appears to have been used to store water. The adjacent four acre parcel contains numerous abandoned wooden structures along the east property boundary. Pertinent site features are shown on Figure 2.

## **FIELD WORK**

Soil sampling work was conducted by GR personnel. Soil samples collected during the initial phase of investigation were delivered under chain-of-custody to American Environmental Network (AEN) laboratories in Pleasant Hill, California (ELAP #1172). Soil samples collected during the second phase of investigation were delivered under chain-of-custody to Sequoia Analytical (Sequoia) laboratories in Redwood City, California (ELAP #1210). Analytical methods and results are summarized in Table 1. Copies of the laboratory analytical reports and chain-of-custody records are attached.

## **Soil Sampling**

On July 25, 1997, eight soil samples (R-1 through R-8) were collected at the subject site. Four samples were collected from both the upper and lower terraces of the eight acre parcel (Figure 2). Samples were collected by removing the upper 2 inches of soil from each sample location, then driving a clean brass sample tube into the soil with a hand-driven sampling device fitted with a 2-inch diameter by 4-inch long clean brass tube. After removal from the sampling device, the sample tubes were covered on both ends

with teflon sheeting, capped, labeled, and placed in a cooler with ice for preservation. A chain-of-custody form was initiated in the field and accompanied the soil samples to AEN.

Each sample was analyzed for Total Petroleum Hydrocarbons calculated as gasoline (TPHg) according to EPA Method 5030/GC-FID and a fuel fingerprint for Extractable Total Petroleum Hydrocarbons calculated as diesel (TPHd) and oil (TPHo) according to EPA Method 3550/GC-FID.

TPHo was detected in samples R-1 through R-8 at concentrations ranging from 6 to 930 parts per million (ppm). TPHg and TPHd were not detected in any sample. Chemical analytical data are summarized in Table 1.

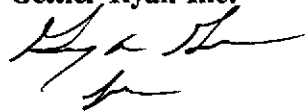
Upon receipt of the analytical data on August 8, 1997, additional soil samples were collected. Soil sample R-8A was collected immediately adjacent to the location of R-8 at a depth of 0.5 feet below ground surface(bgs). A shovel and pick were then used to excavate the area around R-8 and R-8A to a depth of approximately 1.75 feet bgs. Soil sample R-8-2 was then driven into the bottom of the excavation to a depth of 2 feet bgs. The soil near R-8 ranged from loose soil and roots (surface to 0.20 feet bgs), to a well-compacted silt and clay with varying amounts of gravel (0.20 to 0.75 feet bgs), to silt (0.75 to 2 feet bgs). A third sample, R-9, was collected at a depth of 0.5 feet bgs from a four acre parcel located immediately south of the eight acre parcel (Figure 2).

These three samples were collected and handled as mentioned above and transported to Sequoia Analytical for a Fuel Fingerprint analysis according to EPA Method 8015. Sample R-8A and R-8-2 contained 15 and 4.1 ppm of an unidentified hydrocarbon between C9 and C40, respectively. R-9 contained 19 ppm of an unidentified hydrocarbon between C9 and C40. Chemical analytical data are summarized in Table 1.

An extract of sample R-8 was transported from AEN to Sequoia Analytical on August 11, 1997, for Fuel Fingerprint analysis. Analysis of the extract by Sequoia detected 880 ppm of an unidentified hydrocarbon between C9 and C40. This concentration can be compared to the 930 ppm TPHo reported by AEN. Chemical analytical data are summarized in Table 1.

If you should have any questions please call us in Dublin at (510) 551-7555.

Sincerely,  
Gettler-Ryan Inc.



Clyde J. Galantine  
Project Geologist



Stephen J. Carter  
Senior Geologist  
R.G. 5577



Attachments: Table 1. Analytical Results  
Figure 1. Vicinity Map  
Figure 2. Site Plan/Sample Location Map  
Laboratory Analytical Reports and Chain-of-Custody Records

**Table 1 - Analytical Results of Soil Samples**

Redwood Christian Schools  
 East Castro Valley Boulevard - 8 Acre Parcel  
 Castro Valley, California

Sample Location and ID	Date Collected	Sample Depth (feet)	TPHg (ppm)	TPHd (ppm)	TPHo (ppm)	Fuel Fingerprint (ppm)
<b>Lower Terrace (8-acre parcel)</b>						
R-1	7/25/97	0.5	<0.2	<5	660	--
R-2	7/25/97	0.5	<0.2	<1	7	--
R-3	7/25/97	0.5	<0.2	<1	44	--
R-4	7/25/97	0.5	<0.2	<1	10	--
<b>Upper Terrace (8-acre parcel)</b>						
R-5	7/25/97	0.5	<0.2	<1	6	--
R-6	7/25/97	0.5	<0.2	<5	440	--
R-7	7/25/97	0.5	<0.2	<1	260	--
R-8	7/25/97	0.5	<0.2	<5	930	880 <sup>1</sup>
R-8A	8/8/97	0.5	--	--	--	15 <sup>1</sup>
R-8-2	8/8/97	2	--	--	--	4.1 <sup>1</sup>
<b>Lower Parcel (4-acre parcel)</b>						
R-9	8/8/97	0.5	--	--	--	19 <sup>1</sup>

**EXPLANATION:**

ppm = parts per million

-- = Not Analyzed

<sup>1</sup> = Unidentified Hydrocarbon C9-C40**ANALYTICAL LABORATORY:**

American Environmental Network (ELAP #1172)

Sequoia Analytical (ELAP #1210)

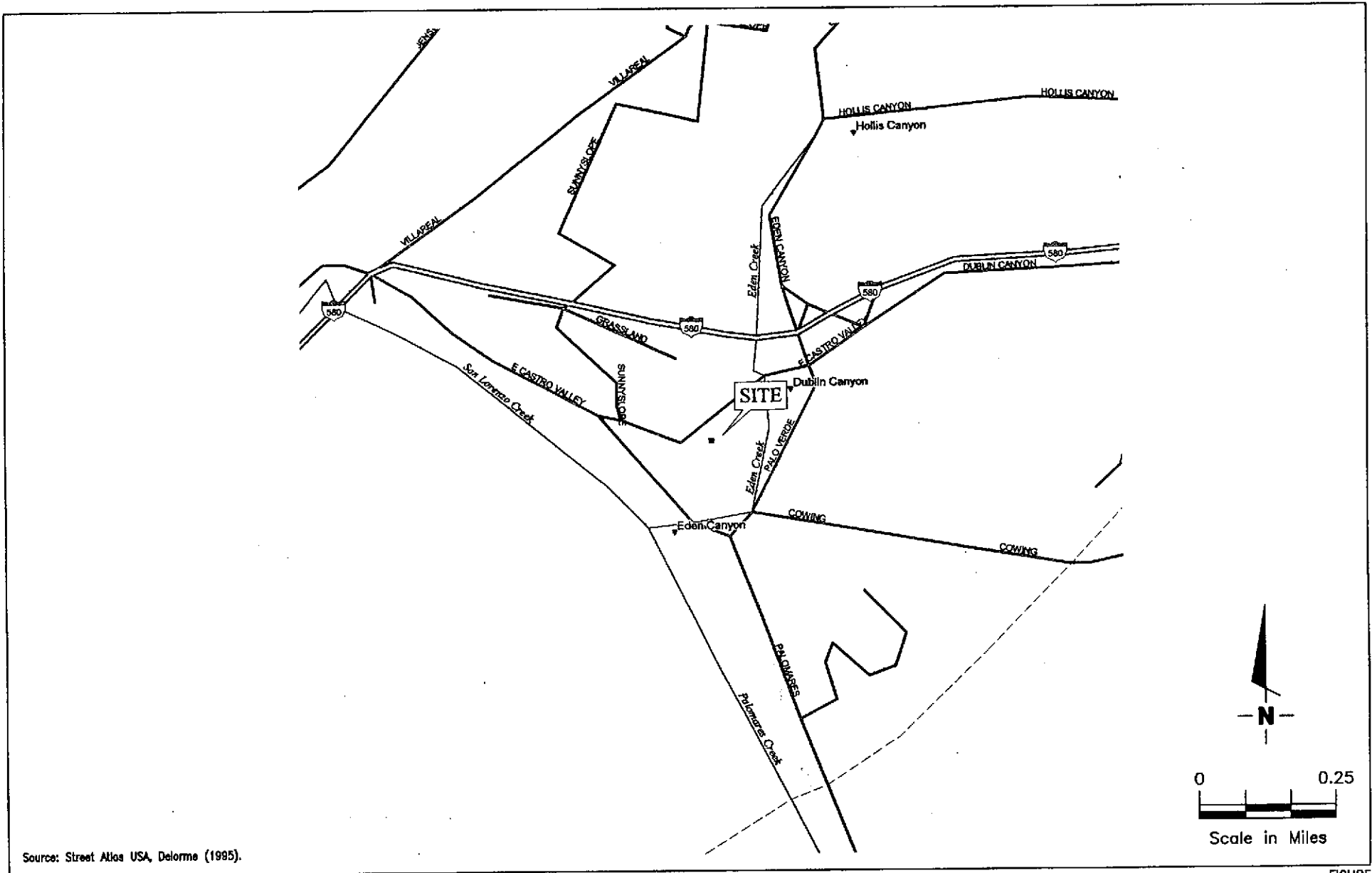
**ANALYTICAL METHODS:**

TPHg = Total Petroleum Hydrocarbons calculated as gasoline according to EPA Method 5030/GC-FID (AEN)

TPHd = Extractable Total Petroleum Hydrocarbons calculated as diesel according to EPA Method 3350/GC-FID (AEN)

TPHo = Extractable Total Petroleum Hydrocarbons calculated as oil according to EPA Method 3350/GC-FID (AEN)

Fuel Fingerprint = Extractable Total Petroleum Hydrocarbons according to EPA Method 8015 Modified (Sequoia)



Source: Street Atlas USA, Delorme (1985).



**Gertler - Ryan Inc.**

6747 Sierra Ct., Suite J (510) 551-7555  
 Dublin, CA 94568

VICINITY MAP  
 Redwood Christian Schools  
 East Castro Valley Boulevard — 8 Acre Parcel  
 Castro Valley, California

FIGURE

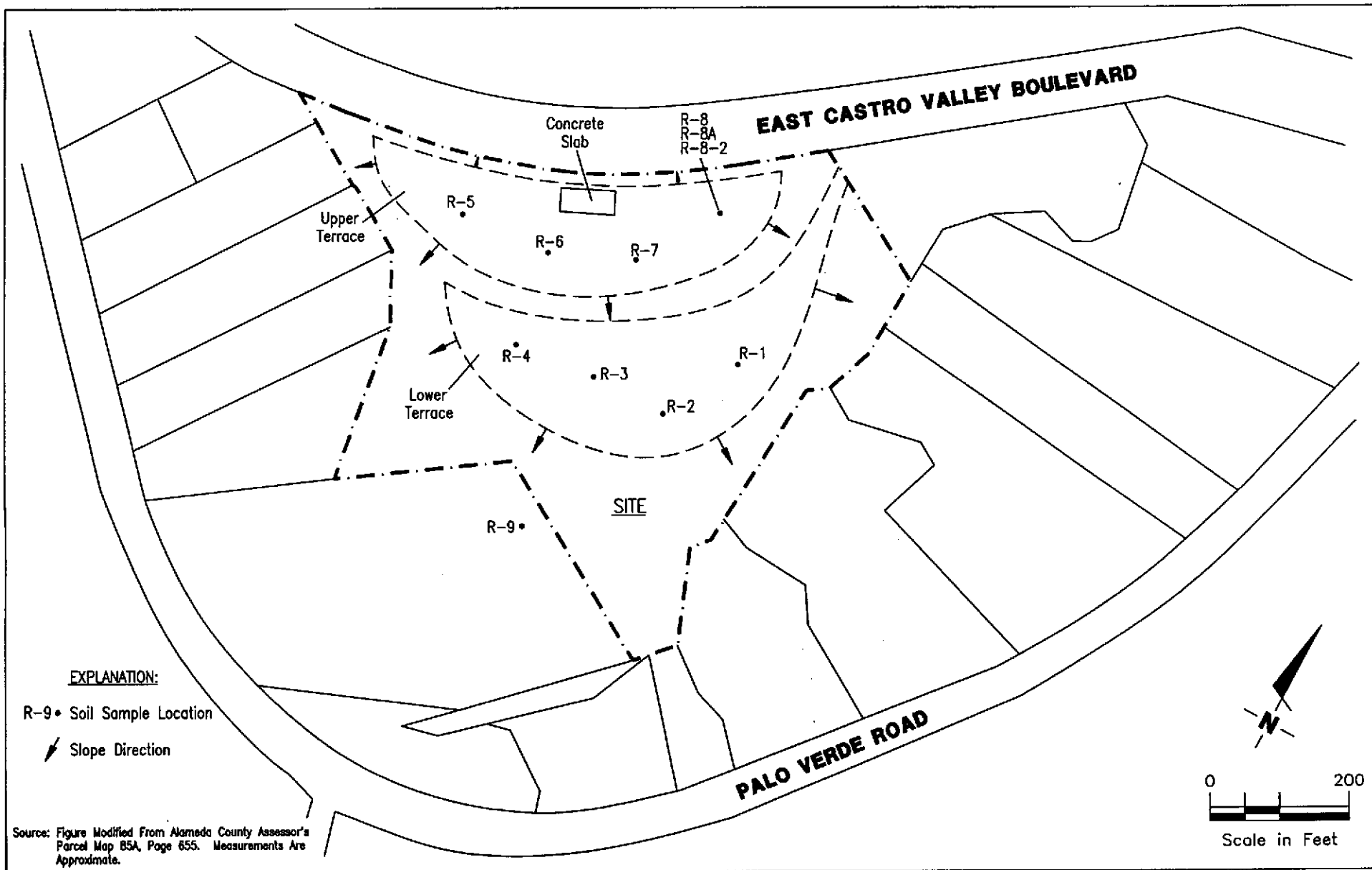
**1**

JOB NUMBER  
 8148

REVIEWED BY

DATE  
 07/97

REVISED DATE



**Gettler - Ryan Inc.**

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Dublin, CA 94568

**SITE PLAN/SAMPLE LOCATION MAP**

Redwood Christian Schools  
East Castro Valley Boulevard - 8 Acre Parcel  
Castro Valley, California

FIGURE

**2**

JOB NUMBER  
8148

REVIEWED BY

DATE  
07/97

REVISED DATE

**LABORATORY ANALYTICAL REPORTS AND  
CHAIN-OF-CUSTODY RECORDS**

AUG-08-97 FRI 09:18

AEN CALIFORNIA

FAX NO. 5109300258

P. 02/10

PAGE 2

## GETTLER-RYAN, INC.

SAMPLE ID: R-1  
 AEN LAB NO: 9707332-01  
 AEN WORK ORDER: 9707332  
 CLIENT PROJ. ID: 8148.01

DATE SAMPLED: 07/25/97  
 DATE RECEIVED: 07/25/97  
 REPORT DATE: 08/08/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas	5030 GC-FID	ND	0.2 mg/kg		07/30/97
#Extraction for TPH	EPA 3550	-		Extrn Date	07/28/97
TPH as Diesel	GC-FID	ND	5 mg/kg		07/30/97
TPH as Oil	GC-FID	660 *	20 mg/kg		07/30/97

ND = Not detected at or above the reporting limit  
 \* = Value at or above reporting limit



AUG-08-97 FRI 09:18

AEN CALIFORNIA

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P. 03/10

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## GETTLER-RYAN, INC.

SAMPLE ID: R-2  
AEN LAB NO: 9707332.02  
AEN WORK ORDER: 9707332  
CLIENT PROJ. ID: 8148.01

DATE SAMPLED: 07/25/97  
DATE RECEIVED: 07/25/97  
REPORT DATE: 08/08/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas	5030 GC-FID	ND	0.2 mg/kg		07/30/97
#Extraction for TPH	EPA 3550	-	Extrn Date		07/28/97
TPH as Diesel	GC-FID	ND	1 mg/kg		07/29/97
TPH as Oil	GC-FID	7 *	5 mg/kg		07/29/97

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

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FAX NO. 5109300256

P.04/10

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## GETTLER-RYAN, INC.

SAMPLE ID: R-3  
 AEN LAB NO: 9707332-03  
 AEN WORK ORDER: 9707332  
 CLIENT PROJ. ID: 8148.01

DATE SAMPLED: 07/25/97  
 DATE RECEIVED: 07/25/97  
 REPORT DATE: 08/08/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas	5030 GC-FID	ND	0.2	mg/kg	07/31/97
#Extraction for TPH	EPA 3550	-		Extrn Date	07/28/97
TPH as Diesel	GC-FID	ND	1	mg/kg	07/30/97
TPH as Oil	GC-FID	44 *	5	mg/kg	07/30/97

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

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FAX NO. 5108300256

P. 05/10

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## GETTLER-RYAN, INC.

SAMPLE ID: R-4  
 AEN LAB NO: 9707332-04  
 AEN WORK ORDER: 9707332  
 CLIENT PROJ. ID: 8148.01

DATE SAMPLED: 07/25/97  
 DATE RECEIVED: 07/25/97  
 REPORT DATE: 08/08/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas	5030 GC-FID	ND	0.2 mg/kg		07/30/97
#Extraction for TPH	EPA 3550	-		Extrn Date	07/28/97
TPH as Diesel	GC-FID	ND	1 mg/kg		07/29/97
TPH as Oil	GC-FID	10 *	5 mg/kg		07/29/97

ND = Not detected at or above the reporting limit  
 \* = Value at or above reporting limit

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## GETTLER-RYAN, INC.

SAMPLE ID: R-5  
 AEN LAB NO: 9707332-05  
 AEN WORK ORDER: 9707332  
 CLIENT PROJ. ID: 8148.01

DATE SAMPLED: 07/25/97  
 DATE RECEIVED: 07/25/97  
 REPORT DATE: 08/08/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas	5030 GC-FID	ND	0.2	mg/kg	07/30/97
#Extraction for TPH	EPA 3550	-		Extrn Date	07/28/97
TPH as Diesel	GC-FID	ND	1	mg/kg	07/29/97
TPH as Oil	GC-FID	6 *	5	mg/kg	07/29/97

ND = Not detected at or above the reporting limit  
 \* = Value at or above reporting limit

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P.07/10

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## GETTLER-RYAN, INC.

SAMPLE ID: R-6  
 AEN LAB NO: 9707332-06  
 AEN WORK ORDER: 9707332  
 CLIENT PROJ. ID: 6148.01

DATE SAMPLED: 07/25/97  
 DATE RECEIVED: 07/25/97  
 REPORT DATE: 08/08/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas	5030 GC-FID	ND	0.2	mg/kg	07/30/97
#Extraction for TPH	EPA 3550	-		Extrn Date	07/28/97
TPH as Diesel	GC-FID	ND	5	mg/kg	07/31/97
TPH as Oil	GC-FID	440 *	20	mg/kg	07/31/97

ND = Not detected at or above the reporting limit  
 \* = Value at or above reporting limit

AUG-08-97 FRI 09:21

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FAX NO. 5109300256

P. 08/10

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## GETTLER-RYAN, INC.

SAMPLE ID: R-7  
 AEN LAB NO: 9707332-07  
 AEN WORK ORDER: 9707332  
 CLIENT PROJ. ID: 8148.01

DATE SAMPLED: 07/25/97  
 DATE RECEIVED: 07/25/97  
 REPORT DATE: 08/08/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas	5030 GC-FID	ND	0.2 mg/kg		07/30/97
#Extraction for TPH	EPA 3550	-		Extrn Date	07/28/97
TPH as Diesel	GC-FID	ND	1 mg/kg		07/31/97
TPH as Oil	GC-FID	260 *	5 mg/kg		07/31/97

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

AUG-08-97 FRI 09:21

AEN CALIFORNIA

FAX NO. 5109300256

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## GETTLER-RYAN, INC.

SAMPLE ID: R 8  
AEN LAB NO: 9707332-08  
AEN WORK ORDER: 9707332  
CLIENT PROJ. ID: 8148.01

DATE SAMPLED: 07/25/97  
DATE RECEIVED: 07/25/97  
REPORT DATE: 08/08/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
TPH as Gas	5030 GC-FID	ND	0.2 mg/kg		07/31/97
#Extraction for TPH	EPA 3550	-	Extrn Date		07/28/97
TPH as Diesel	GC-FID	ND	5 mg/kg		08/04/97
TPH as Oil	GC-FID	930 *	20 mg/kg		08/04/97

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

Gottler - Ryan Inc.

ENVIRONMENTAL DIVISION

COMPANY

Redwood Christian Schools

JOB NO. 8148.01

JOB LOCATION

E. Castro Valley Blvd near El Cerrito Canyon Rd.

CITY

Castro Valley

PHONE NO.

AUTHORIZED

DATE

7/25/97

P.O. NO.

SAMPLE ID	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS REQUIRED	SAMPLE CONDITION LAB ID
R-1	1	Soil	7/25/97	TPH <sub>g</sub> , Fuel Oil (per J. 3580)	01A
R-2	1	↓	↓	↓	02A
R-3	1	↓	↓	↓	03A
R-4	1	↓	↓	↓	04A
R-5	1	↓	↓	↓	05A
R-6	1	↓	↓	↓	06A
R-7	1	↓	↓	↓	07A
R-8	1	↓	↓	↓	08A

SEE Change order request for changed analysis to gas, diesel, motor hydraulic oil & R-Boas

RELINQUISHED BY:

*Chad Adams*

7/25/97  
12:10

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY:

*Anna Antelope* 7/25/97

RELINQUISHED BY:

RECEIVED BY LAB:

1210

DESIGNATED LABORATORY:

DHS #

REMARKS:

7 Day TAT (normal)

DATE COMPLETED

FOREMAN





**Sequoia  
Analytical**

680 Chesapeake Drive Redwood City, CA 94063 (650) 364-9600 FAX (650) 364-9233  
404 N. Wigeo Lane Walnut Creek, CA 94598 (910) 988-9600 FAX (510) 988-9673  
819 Striker Avenue, Suite J Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Gettler Ryan/Geostrategies Client Proj. ID: 6149.01 Sampled: 08/08/97  
3164 Gold Camp Drive #240 Sample Descript: R-6A Received: 08/08/97  
Rancho Cordova, CA 95670 Matrix: SOLID Extracted: 08/08/97  
Attention: Greg Gursz Analysis Method: EPA 8016 Mod Analyzed: 08/08/97  
Lab Number: 9708945-01 Reported: 08/11/97


QC Batch Number: GC0808970-RBPEXA  
Instrument ID: GCHP4B

**Fuel Fingerprint**

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Extractable Hydrocarbons	1.0	15
Chromatogram Pattern: Unidentified HC		C9-C40
Sumogates	Control Limits %	% Recovery
n-Pentacosane (C25)	80 150	82

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Mike Gregory  
Project Manager



**Sequoia Analytical**

680 Chesapeake Drive  
404 N. Wiger Lane  
819 Striker Avenue, Suite 8

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834

(830) 864-9600  
(510) 988-9600  
(916) 921-9600

FAX (830) 864-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

Gettler Ryan/Geostrategies 3164 Gold Camp Drive #240 Rancho Cordova, CA 95670	Client Proj. ID: 8148.01 Sample Descript: R-8-2 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9708345-02	Sampled: 08/08/97 Received: 08/08/97 Extracted: 08/08/97 Analyzed: 08/08/97 Reported: 08/11/97
Attention: Greg Gurse		
QC Batch Number: GC0808970HBPEXA		
Instrument ID: GCHP4B		

### Fuel Fingerprint

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Extractable Hydrocarbons Chromatogram Pattern: Unidentified HC	1.0	4.1 C9-C40
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 79

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Mike Gregory  
Project Manager



**Sequoia  
Analytical**

880 Chesapeake Drive  
404 N. Wiget Lane  
819 Stejler Avenue, Suite 8

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834

(950) 864-9600  
(910) 988-9600  
(916) 921-9600

FAX (650) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

Gettler Ryan/Geostrategies  
3164 Gold Camp Drive #240  
Rancho Cordova, CA 95670

Client Proj. ID: 8148.01  
Sample Descript: R-9  
Matrix: SOLID  
Analysis Method: EPA 8015 Mod  
Lab Number: 9708345-03

Sampled: 08/08/97  
Received: 08/08/97  
Extracted: 08/08/97  
Analyzed: 08/08/97  
Reported: 08/11/97

Attention: Greg Guras

QC Batch Number: GC0808270HSPEXA  
Instrument ID: GCHP4B

### Fuel Fingerprint

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Extractable Hydrocarbons Chromatogram Pattern: Unidentified HC	1.0	19 C9-C40
Burrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 94

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Mike Gregory  
Project Manager

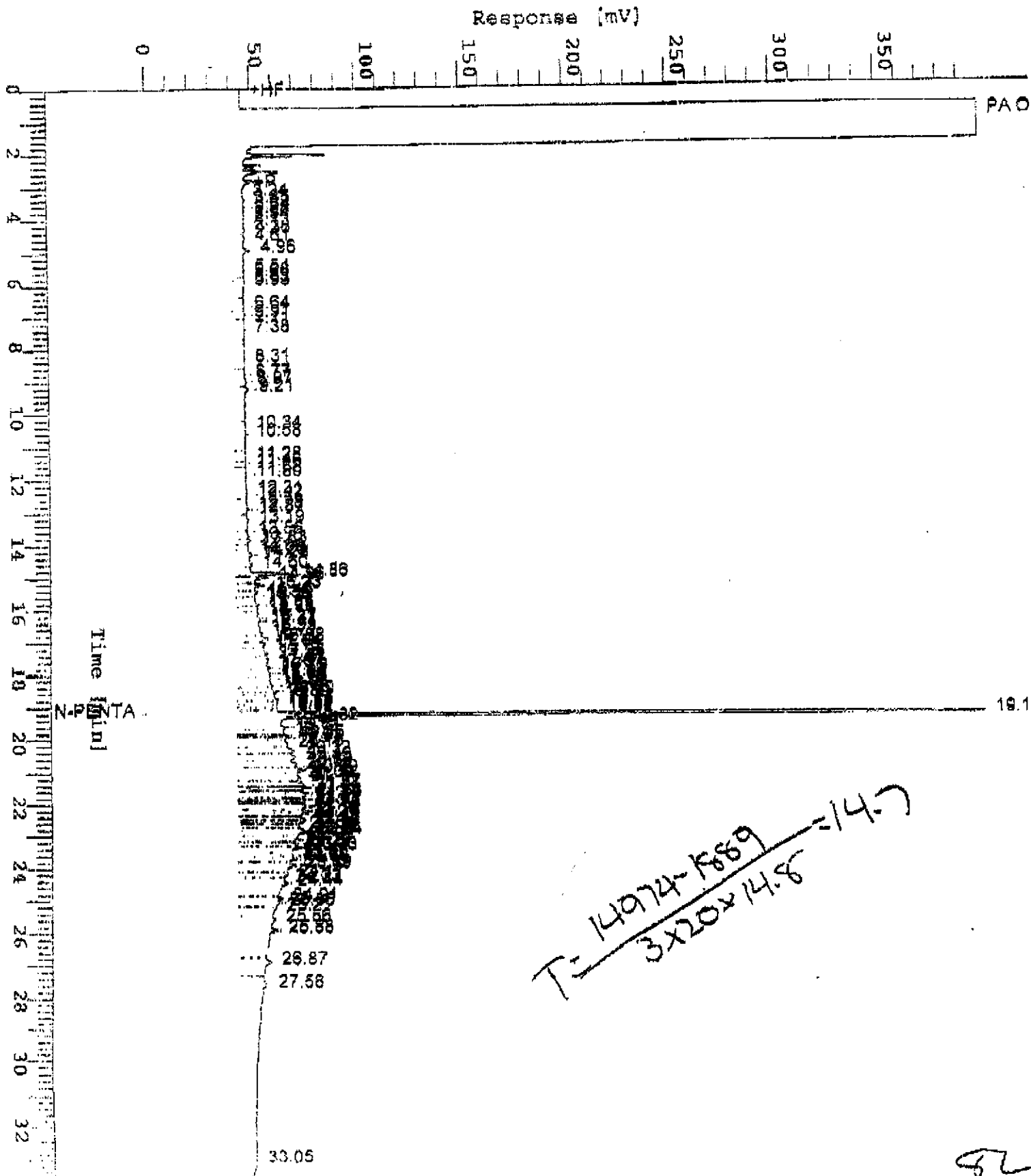
AUG 11 '97 11:39AM SEQUOIA ANALYTICAL

# Chromatogram

Sample Name : D59705145-1 (20.1)  
 FileName : S:\GHP\_04\0810\05282008.raw  
 Method : TPH04A  
 Start Time : 0.00 min  
 Scale Factor : 0.0

End Time : 27.65 min  
 Plot Offset : 0 mV

Sample #: K-3A  
 Date : 8/8/97 18:00  
 Time of Injection: 8/8/97 18:28  
 Low Point : 0.00 mV  
 High Point : 400.00 mV  
 Plot Scale: 400.0 mV



52

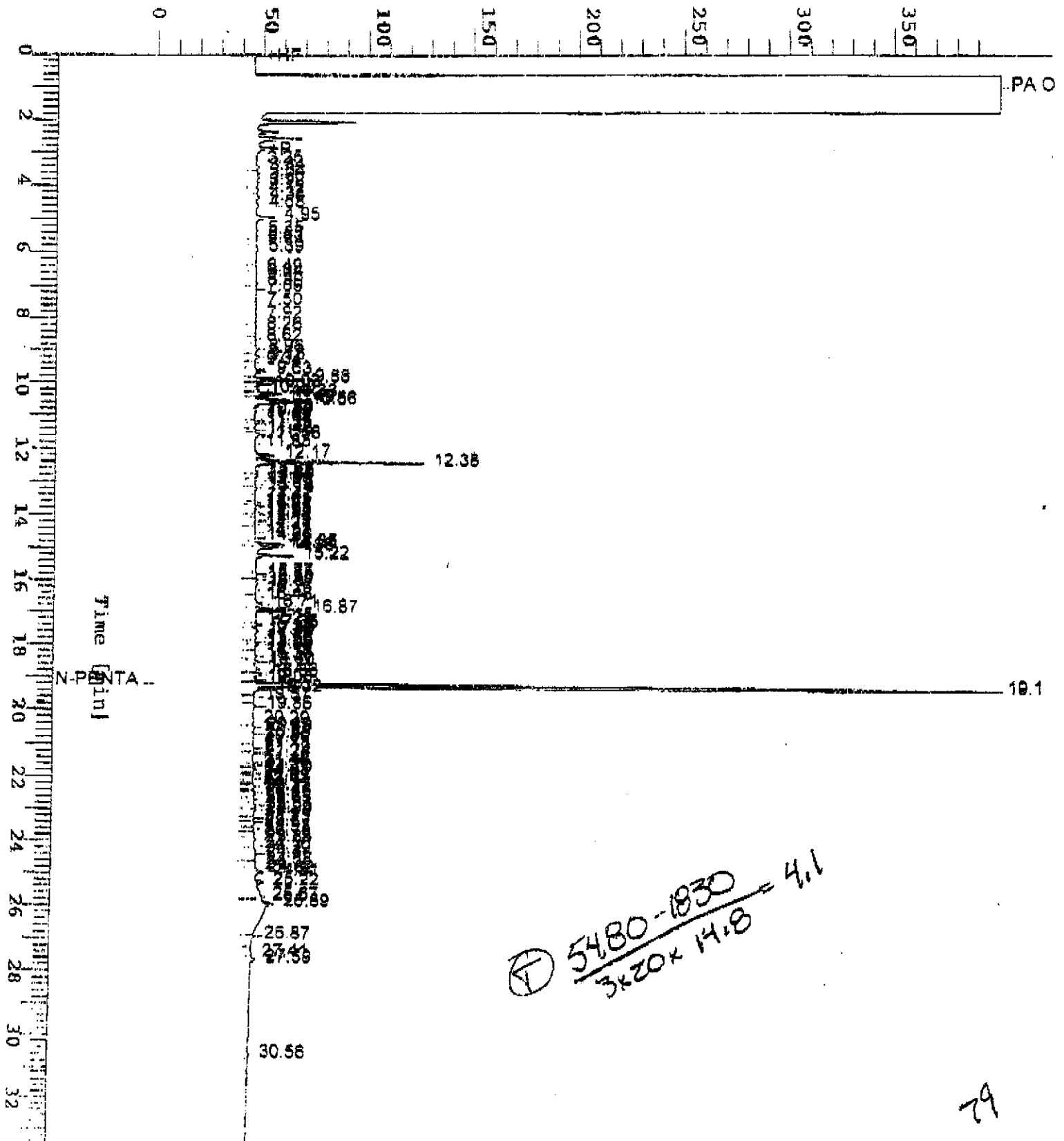
# Chromatogram

Sample Name : CS9708345-2 (20:1)  
 FileName : S:\GHP\_04\0810\8088012.raw  
 Method : TPH04A  
 Start Time : 0.00 min  
 Scale Factor: 0.0

Sample #: A-3-2  
 Date : 8/8/97 21:47  
 Time of Injection: 8/8/97 21:13  
 Low Point : 0.00 mV  
 High Point : 400.00 mV  
 Plot Scale: 400.0 mV

Page 1 of 1

Response [mV]



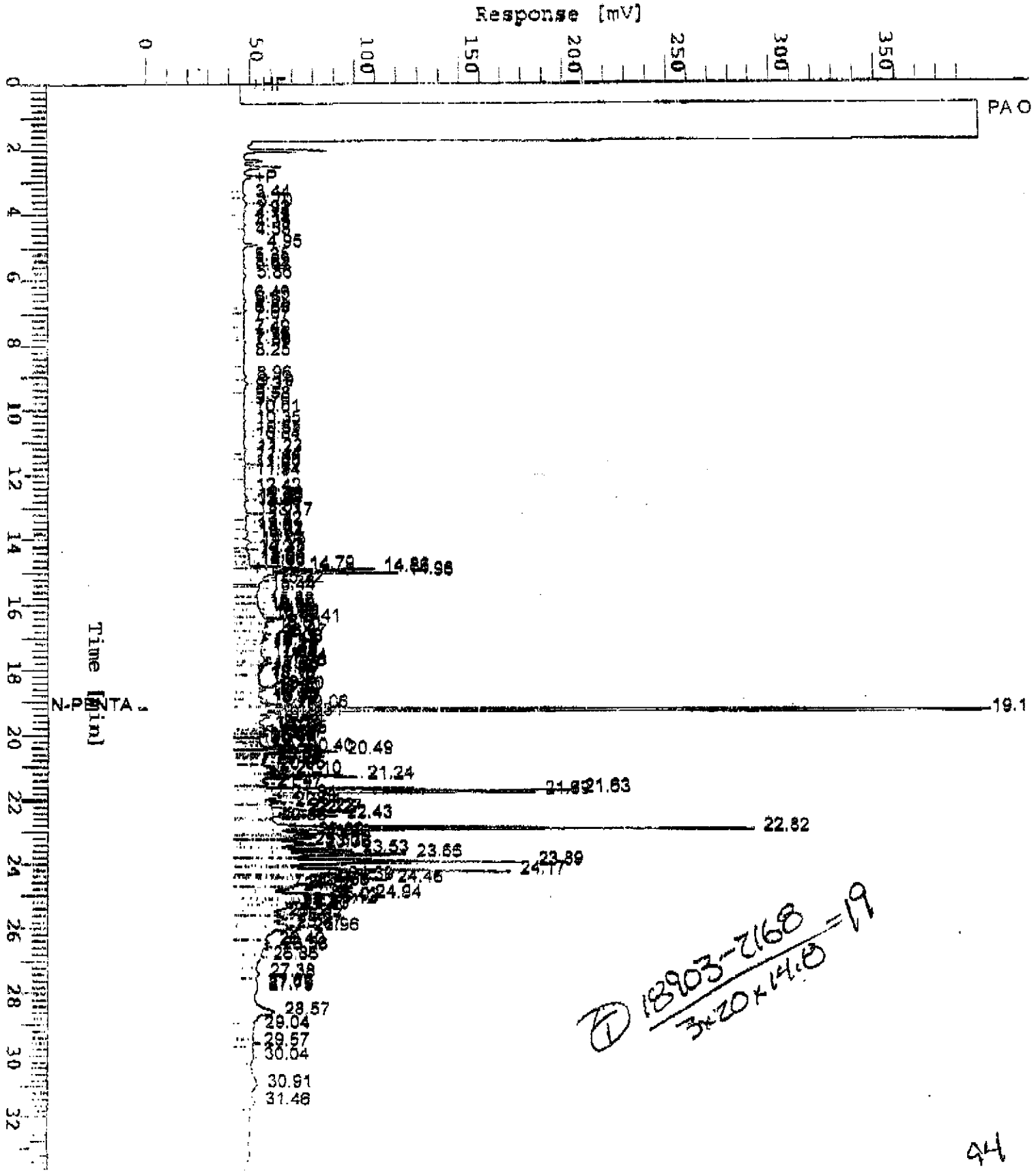
Ⓟ  $\frac{5480 - 1830}{3 \times 20 \times 14.8} = 4.1$

# Chromatogram

Sample Name : D89708348-3 (20:11)  
 FileName : S:\GMS\_04\0610\8068013.raw  
 Method : TDM06A  
 Start Time : 0.00 min  
 Scale Factor : 0.0

End Time : 22.69 min  
 Plot Offset : 0 mV

Sample #: R-9  
 Date : 8/8/97 22:28  
 Time of Injection: 8/8/97 21:54  
 Low Point : 0.00 mV  
 Plot Scale: 400.0 mV  
 High Point : 400.00 mV



① 18903-2168  
 3x20x14.8 = 19

AUG 11 '97 11:35AM SEQUOIA ANALYTICAL

Gottler - Ryan Inc.

9708345

ENVIRONMENTAL DIVISION

1870 Chain of Custody

COMPANY Redwood Christian Schools

JOB NO. 814801

JOB LOCATION E. Castro Valley Blvd. / Eden Canyon Rd.

CITY Castro Valley, CA

PHONE NO. Fax 916-631-1317  
916-631-1300

AUTHORIZED Clyde Gutierrez / Greg Guss DATE 8/8/97

P.O. NO.

SAMPLE ID	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS REQUIRED	SAMPLE CONDITION LAB ID
R-8A	1	Soil	8/8/97 7:30	Fuel Fingerprint	
R-8-2	1	↓	↓ 8:00	↓	
R-9	1	↓	↓ 8:30	↓	

RELINQUISHED BY: *Clyde Gutierrez* 9140 8/8/97

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

*W. Anderson* 8-8-97 0940  
RECEIVED BY LAB:

DESIGNATED LABORATORY: *Sequoia*

DHS #:

REMARKS: *1 Day TAT*

DATE COMPLETED

FOREMAN



**Sequoia  
Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834

(650) 364-9600  
(510) 938-9600  
(916) 921-9600

FAX (650) 364-9333  
FAX (510) 938-9673  
FAX (916) 921-0100

Gentler Ryan/Geostrategies 6747 Sierra Court Suite G Dublin, CA 94568	Client Proj. ID: Redwood Christian Schools Sample Descript: 9707332-8A Matrix: EXTRACT Analysis Method: EPA 8015 Mod Lab Number: 9708475-01	Sampled: 07/25/97 Received: 08/11/97 Extracted: 08/11/97 Analyzed: 08/11/97 Reported: 08/12/97
---	---	--

QC Batch Number: SEE NARRATIVE  
Instrument ID: GCHP4A

**Fuel Fingerprint**

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable Hydrocarbons Chromatogram Pattern: Unidentified HC	800	880 C9-C40
Surrogates n-Pentacosane (C25)	Control Limits % 60                      150	% Recovery Q

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Mike Gregory  
Project Manager

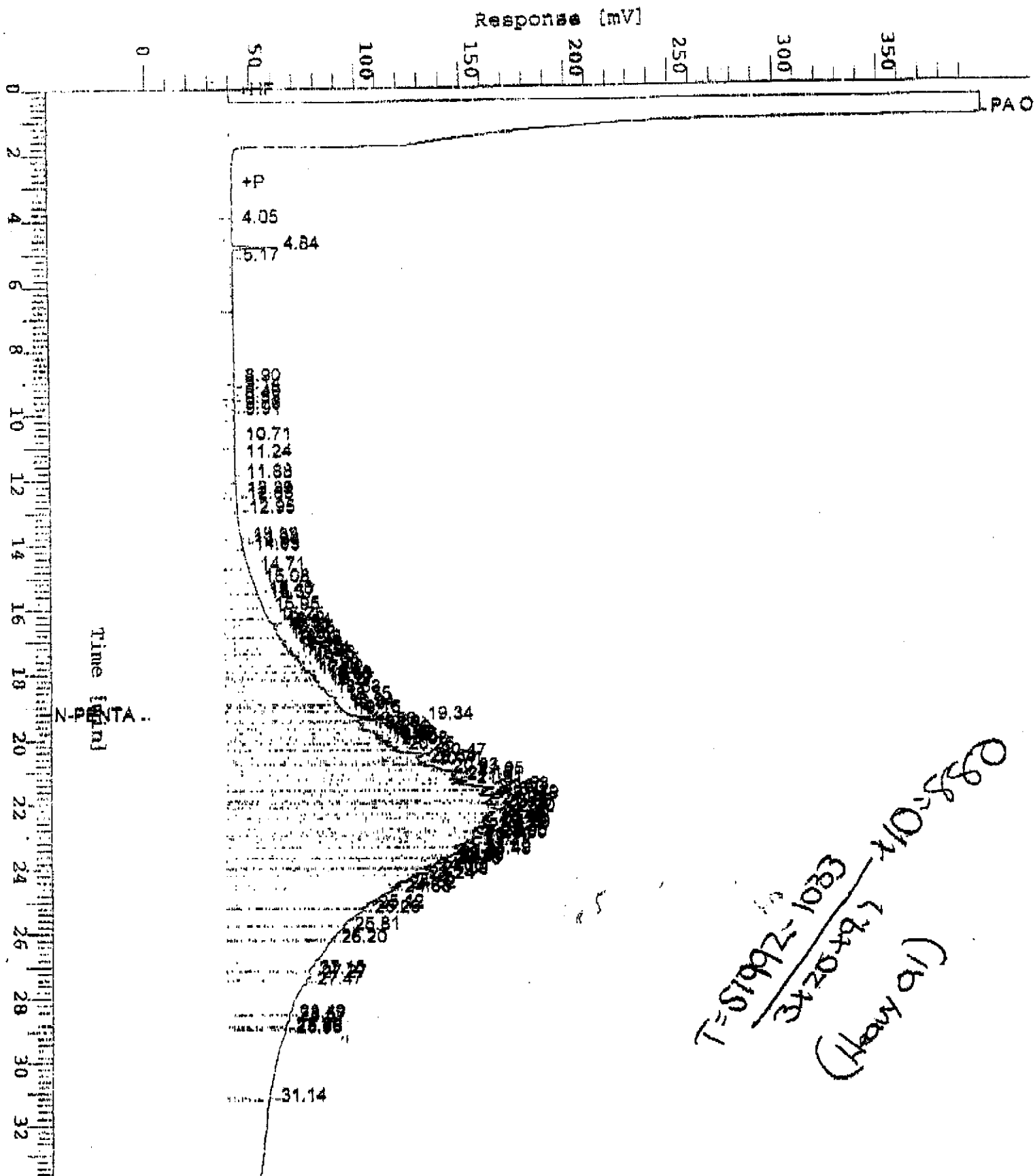




# Chromatogram

Sample Name : D89708A75-1 (10X DIL)  
FileName : S:\GHS\_G4\0817\811A011.raw  
Method : TSM04A  
Start Time : 0.00 min End Time : 31.65 min  
Scale Factor : 0.0 Plot Offset : 0 mV

Sample #: 9707332-8A  
Date : 8/11/97 16:43  
Time of Injection: 8/11/97 16:18  
Low Point : 0.00 mV High Point : 400.00 mV  
Plot Scale: 400.0 mV



*Handwritten:*  
T=81992-1033  
342049.7  
D89708A75-1  
(10X DIL)