Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112765
CLIENT: URIBE & ASSOCIATES
PROJECT ID: 96-209
LOCATION: SHIPPER'S IMPERIAL

DATE SAMPLED: 10/15/93
DATE RECEIVED: 10/15/93
DATE EXTRACTED: 10/18/93
DATE ANALYZED: 10/19/93
DATE REPORTED: 10/20/93

Extractable Petroleum Hydrocarbons in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
112765-001	CON-1-2.0	**	25	1
112765-002	CON-2-2.0	**	140	10

** Kerosene range not reported due to overlap of hydrocarbon ranges.

* Reporting limit applies to all analytes.

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112627
CLIENT: URIBE & ASSOCIATES
PROJECT ID: 96-209
LOCATION: SHIPPERS IMPERIAL

DATE SAMPLED: 10/05/93
DATE RECEIVED: 10/06/93
DATE ANALYZED: 10/12/93
DATE REPORTED: 10/13/93

Total Volatile Hydrocarbons with BTXE in Soils & Wastes
TVH by California DOHS Method/LUFT Manual October 1989
BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
112627-1	CON-1	900	2,500	20,000	15,000	65,000
112627-2	CON-2	1,500	5,700	36,000	22,000	82,000

QA/QC SUMMARY	
RPD, %	4
RECOVERY, %	90

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 112627
CLIENT: URIBE & ASSOCIATES
PROJECT ID: 96-209
LOCATION: SHIPPERS IMPERIAL

DATE SAMPLED: 10/05/93
DATE RECEIVED: 10/06/93
DATE ANALYZED: 10/08/93
DATE REPORTED: 10/12/93

Total Volatile Hydrocarbons with BTXE in Soils & Wastes
TVH by California DOHS Method/LUFT Manual October 1989
BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
112627-3	CON-3	ND(1)	ND(5)	ND(5)	ND(5)	ND(5)

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY	
LCS RECOVERY, %	96

Curtis & Tompkins, Ltd

LABORATORY NUMBER: 112627
CLIENT: URIBE & ASSOCIATES
PROJECT ID: 96-209
LOCATION: SHIPPERS IMPERIAL

DATE SAMPLED: 10/05/93
DATE RECEIVED: 10/06/93
DATE EXTRACTED: 10/12/93
DATE ANALYZED: 10/13/93
DATE REPORTED: 10/13/93

Extractable Petroleum Hydrocarbons in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
112627-1	CON-1	**	6,700	100
112627-2	CON-2	**	1,600	10
112627-3	CON-3	ND	ND	2
112627-4	BLANK	**	340	10

ND = Not detected at or above reporting limit.

* Reporting limit applies to all analytes.

** Kerosene range not reported due to overlap of hydrocarbon ranges.

QA/QC SUMMARY

RPD,%	7
RECOVERY, %	63

U&A

OAKLAND
2930 Lakeshore Ave., Suite 200
Oakland, CA 94610

510•832-2233
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PALO ALTO
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415•325-9195
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BAKERSFIELD
110 New Stine Road, Suite E
Bakersfield, CA 93309

805•832-4226
FAX•832-8745
Modem 805•832-0452

LIVERMORE
Lawrence Livermore National Laboratory
DOE T-5974, 7000 East Ave.
Livermore, CA 94550

510•422-0710
FAX•423-7601

TIME FAX

URIBE & ASSOCIATES
ENVIRONMENTAL CONSULTING SERVICES

DATE 10.28.93

PAGES 3 INCLUDING COVER PAGE

(If you did not receive any of these pages, please contact U&A immediately)

ATTENTION Tom Barnes.

phone # _____

COMPANY Alameda Health Department.

FAX # 510-569-4757

FROM Maria

☐ *Oakland* ☐ *Palo Alto* ☐ *Bakersfield* ☐ *Livermore*

SUBJECT/
COMMENTS: _____

☐ *Original will not follow*

☐ *Original will follow via:* _____ Code: _____

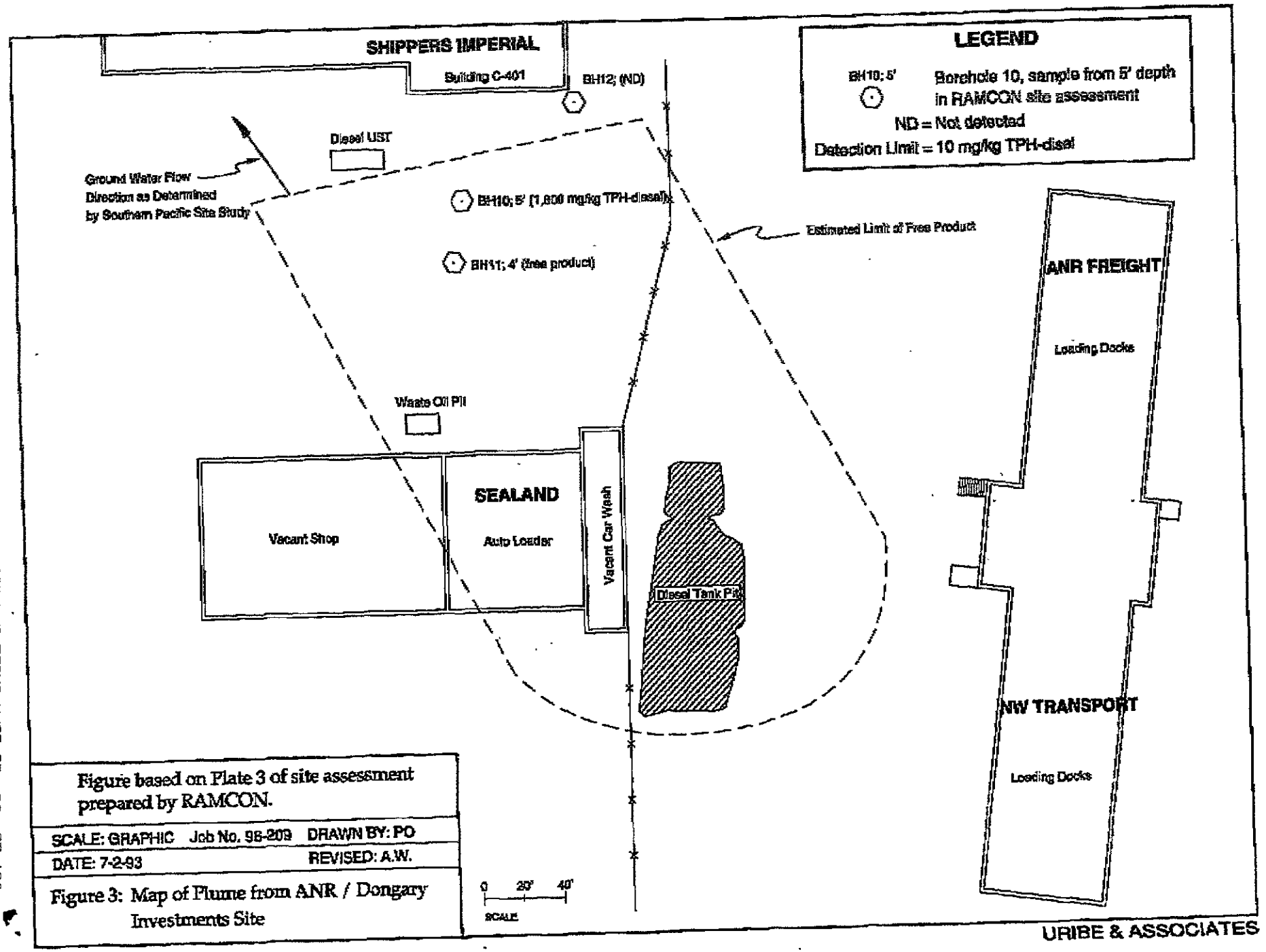


Figure based on Plate 3 of site assessment prepared by RAMCON.

SCALE: GRAPHIC Job No. 98-209 DRAWN BY: PO

DATE: 7-2-93 REVISED: A.W.

Figure 3: Map of Plume from ANR / Dongary Investments Site

FAX

TRANSMITTAL

To: Jennifer Eberle

Fax:

From: Michaeaux James

Name Of Sender: 1

Phone: 272-1178

Re:

No. Of Pages Including Cover Letter: 14

If there are any problems with this fax, please call as soon as possible.

NOTES

I forgot the Lab results. But, Here they are!

Partials, TEH fingerprints of W-1 & W-2

PORT OF OAKLAND
ENVIRONMENTAL
DEPARTMENT
530 WATER STREET,
5TH FLOOR
OAKLAND, CA 94607
FAX (510) 465-3755
PHONE (510) 272-1174

PORT OF OAKLAND

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112439
CLIENT: URIBE & ASSOCIATES
PROJECT ID: 96-209
LOCATION: SHIPPER'S IMPERIAL

DATE SAMPLED: 09/23/93
DATE RECEIVED: 09/24/93
DATE EXTRACTED: 09/24/93
DATE ANALYZED: 09/28/93
DATE REPORTED: 09/28/93

Extractable Petroleum Hydrocarbons in Soils & Wastes
California DOHS Method
LUFT Manual October 1989

LAB ID	SAMPLE ID	KEROSENE RANGE (mg/Kg)	DIESEL RANGE (mg/Kg)	REPORTING LIMIT* (mg/Kg)
112439-3	S-1	320	***	10
112439-4	S-2	**	5,500	100
112439-5	S-3	490	***	10
112439-6	S-6	350	***	10
112439-7	S-7	**	1,200	10
112439-8	S-8	ND	ND	1

ND = Not detected at or above reporting limit.

* Reporting limit applies to all analytes.

** Kerosene range not reported due to overlap of hydrocarbon ranges.

*** Diesel range not reported due to overlap of hydrocarbon ranges.

QA/QC SUMMARY

RPD,%	10
RECOVERY, %	103

DRAFT

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112436-1
CLIENT: URIBE & ASSOCIATES
PROJECT ID: 96-209
LOCATION: SHIPPERS IMPERIAL
SAMPLE ID: S-4

DATE SAMPLED: 09/23/93
DATE RECEIVED: 09/24/93
DATE EXTRACTED: 09/27/93
DATE ANALYZED: 09/28/93
DATE REPORTED: 09/29/93

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes
Extraction Method: EPA 3550 Sonication

	RESULT ug/Kg	REPORTING LIMIT ug/Kg
ACID COMPOUNDS		
Phenol	ND	300
2-Chlorophenol	ND	300
Benzyl Alcohol	ND	300
2-Methylphenol	ND	300
4-Methylphenol	ND	300
2-Nitrophenol	ND	2,000
2,4-Dimethylphenol	ND	300
Benzoic Acid	ND	2,000
2,4-Dichlorophenol	ND	2,000
4-Chloro-3-methylphenol	ND	300
2,4,6-Trichlorophenol	ND	300
2,4,5-Trichlorophenol	ND	2,000
2,4-Dinitrophenol	ND	2,000
4-Nitrophenol	ND	2,000
4,6-Dinitro-2-methylphenol	ND	2,000
Pentachlorophenol	ND	2,000
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	300
Aniline	ND	300
Bis(2-chloroethyl)ether	ND	300
1,3-Dichlorobenzene	ND	300
1,4-Dichlorobenzene	ND	300
1,2-Dichlorobenzene	ND	300
Bis(2-chloroisopropyl)ether	ND	300
N-Nitroso-di-n-propylamine	ND	300
Hexachloroethane	ND	300
Nitrobenzene	ND	300
Isophorone	ND	300
Bis(2-chloroethoxy)methane	ND	300
1,2,4-Trichlorobenzene	ND	300
Naphthalene	ND	300
4-Chloroaniline	ND	300
Hexachlorobutadiene	ND	300
2-Methylnaphthalene	ND	300
Hexachlorocyclopentadiene	ND	300
2-Chloronaphthalene	ND	2,000
2-Nitroaniline		

DRAFT

Curtis & Tompkins, Ltd.

EPA 8270

LABORATORY NUMBER: 112436-1
SAMPLE ID: S-4

BASE/NEUTRAL COMPOUNDS	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Dimethylphthalate	ND	300
Acenaphthylene	ND	300
2,6-Dinitrotoluene	ND	300
3-Nitroaniline	ND	2,000
Acenaphthene	ND	300
Dibenzofuran	ND	300
2,4-Dinitrotoluene	ND	300
Diethylphthalate	ND	300
4-Chlorophenyl-phenylether	ND	300
Fluorene	ND	300
4-Nitroaniline	ND	2,000
N-Nitrosodiphenylamine	ND	300
Azobenzene	ND	300
4-Bromophenyl-phenylether	ND	300
Hexachlorobenzene	ND	300
Phenanthrene	ND	300
Anthracene	ND	300
Di-n-butylphthalate	ND	300
Fluoranthene	ND	300
Pyrene	ND	300
Butylbenzylphthalate	ND	2,000
3,3'-Dichlorobenzidine	ND	300
Benzo(a)anthracene	ND	300
Chrysene	ND	300
Bis(2-ethylhexyl)phthalate	ND	300
Di-n-octylphthalate	ND	300
Benzo(b)fluoranthene	ND	300
Benzo(k)fluoranthene	ND	300
Benzo(a)pyrene	ND	300
Indeno(1,2,3-cd)pyrene	ND	300
Dibenzo(a,h)anthracene	ND	300
Benzo(g,h,i)perylene	ND	300

ND = Not detected at or above reporting limit.

DRAFT

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112436-2
CLIENT: URIBE & ASSOCIATES
PROJECT ID: 96-209
LOCATION: SHIPPERS IMPERIAL
SAMPLE ID: S-5

DATE SAMPLED: 09/23/93
DATE RECEIVED: 09/24/93
DATE EXTRACTED: 09/27/93
DATE ANALYZED: 09/28/93
DATE REPORTED: 09/29/93

EPA 8270: Base/Neutral and Acid Extractables in Soils & Wastes
Extraction Method: EPA 3550 Sonication

	RESULT ug/Kg	REPORTING LIMIT ug/Kg
ACID COMPOUNDS		
Phenol	ND	300
2-Chlorophenol	ND	300
Benzyl Alcohol	ND	300
2-Methylphenol	ND	300
4-Methylphenol	ND	300
2-Nitrophenol	ND	2,000
2,4-Dimethylphenol	ND	300
Benzoic Acid	ND	2,000
2,4-Dichlorophenol	ND	2,000
4-Chloro-3-methylphenol	ND	300
2,4,6-Trichlorophenol	ND	300
2,4,5-Trichlorophenol	ND	2,000
2,4-Dinitrophenol	ND	2,000
4-Nitrophenol	ND	2,000
4,6-Dinitro-2-methylphenol	ND	2,000
Pentachlorophenol	ND	2,000
BASE/NEUTRAL COMPOUNDS		
N-Nitrosodimethylamine	ND	300
Aniline	ND	300
Bis(2-chloroethyl)ether	ND	300
1,3-Dichlorobenzene	ND	300
1,4-Dichlorobenzene	ND	300
1,2-Dichlorobenzene	ND	300
Bis(2-chloroisopropyl)ether	ND	300
N-Nitroso-di-n-propylamine	ND	300
Hexachloroethane	ND	300
Nitrobenzene	ND	300
Isophorone	ND	300
Bis(2-chloroethoxy)methane	ND	300
1,2,4-Trichlorobenzene	ND	300
Naphthalene	ND	300
4-Chloroaniline	ND	300
Hexachlorobutadiene	ND	300
2-Methylnaphthalene	ND	300
Hexachlorocyclopentadiene	ND	300
2-Chloronaphthalene	ND	300
2-Nitroaniline	ND	2,000

DRAFT

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112436-2
SAMPLE ID: S-5

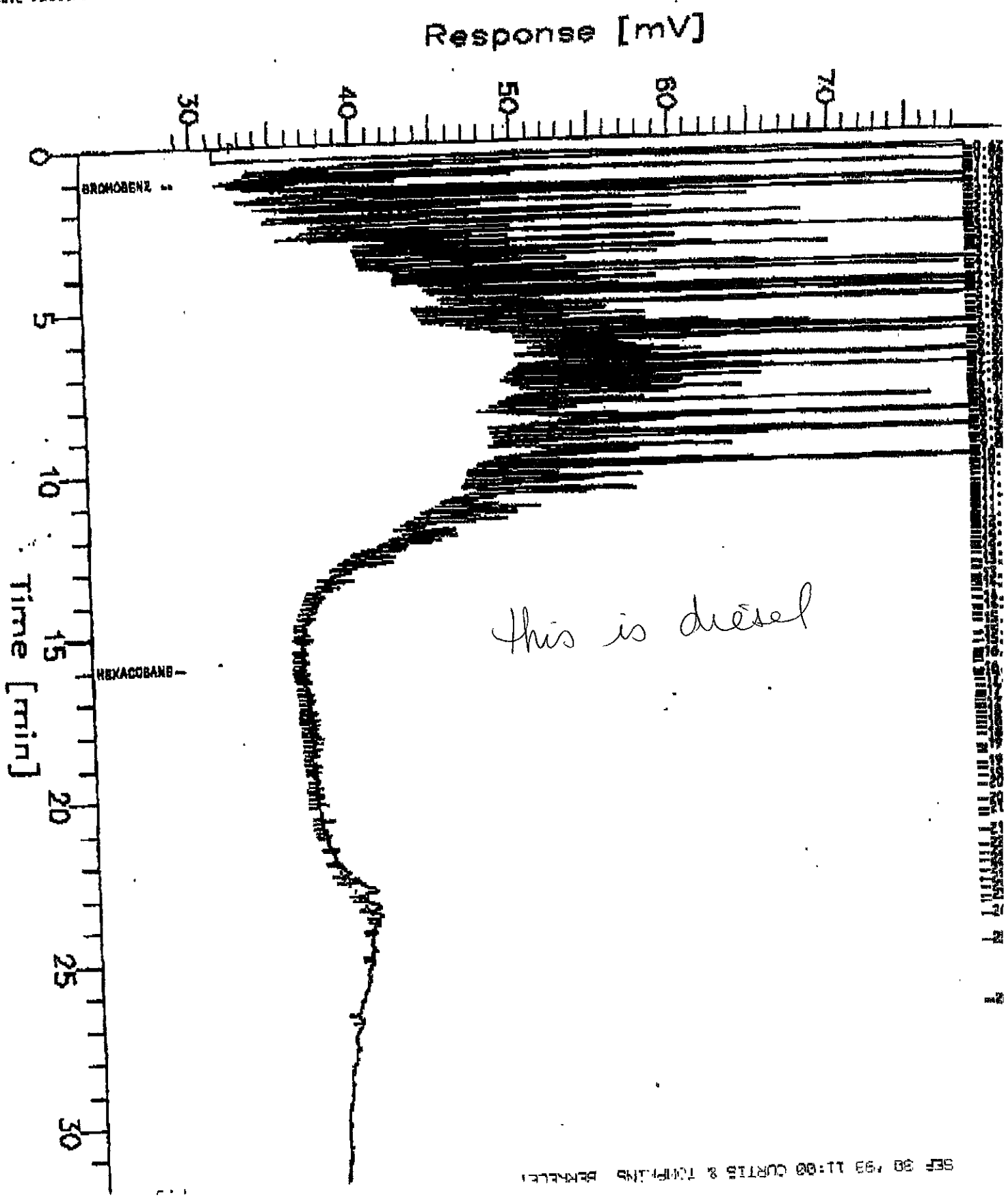
EPA 8270

BASE/NEUTRAL COMPOUNDS	RESULT ug/Kg	REPORTING LIMIT ug/Kg
Dimethylphthalate	ND	300
Acenaphthylene	ND	300
2,6-Dinitrotoluene	ND	300
3-Nitroaniline	ND	2,000
Acenaphthene	ND	300
Dibenzofuran	ND	300
2,4-Dinitrotoluene	ND	300
Diethylphthalate	ND	300
4-Chlorophenyl-phenylether	ND	300
Fluorene	ND	300
4-Nitroaniline	ND	2,000
N-Nitrosodiphenylamine	ND	300
Azobenzene	ND	300
4-Bromophenyl-phenylether	ND	300
Hexachlorobenzene	ND	300
Phenanthrene	ND	300
Anthracene	ND	300
Di-n-butylphthalate	ND	300
Fluoranthene	ND	300
Pyrene	ND	300
Butylbenzylphthalate	ND	300
3,3'-Dichlorobenzidine	ND	2,000
Benzo(a)anthracene	ND	300
Chrysene	ND	300
Bis(2-ethylhexyl)phthalate	ND	300
Di-n-octylphthalate	ND	300
Benzo(b)fluoranthene	ND	300
Benzo(k)fluoranthene	ND	300
Benzo(a)pyrene	ND	300
Indeno(1,2,3-cd)pyrene	ND	300
Dibenzo(a,h)anthracene	ND	300
Benzo(g,h,i)perylene	ND	300

ND = Not detected at or above reporting limit.

Sample Name : 112439-002 W-2
FileName : g:\gc13\che\272a016.raw
Method : TEN_CHA.fms
Start Time : 0.00 min End Time : 31.92 min
Scale Factor: -1 Plot Offset: 29 mV

Sample #: fingerprin
Date : 9/30/93 5:10 AM
Time of Injection: 9/30/93 4:38 AM
Low Point : 28.80 mV High Point : 78.80 mV
Plot Scale: 50 mV



Sample Name : 112439-001 GJ -1
FileName : g:\pc13\cha\278a015.raw
Method : TEH_CHA.fms
Start Time : 0.00 min End Time : 31.92 min
Scale Factor: -1 Plot Offset: 29 mV

Sample #: fingerprin
Date : 9/30/93 4:28 AM
Time of Injection: 9/30/93 3:53 AM
Low Point : 28.76 mV High Point : 78.76 mV
Plot Scale: 50 mV

Response [mV]

30 40 50 60 70

0

BROMOBENZ

5

10

15

HEXACOSANE

20

25

30

Time [min]

this is diesel

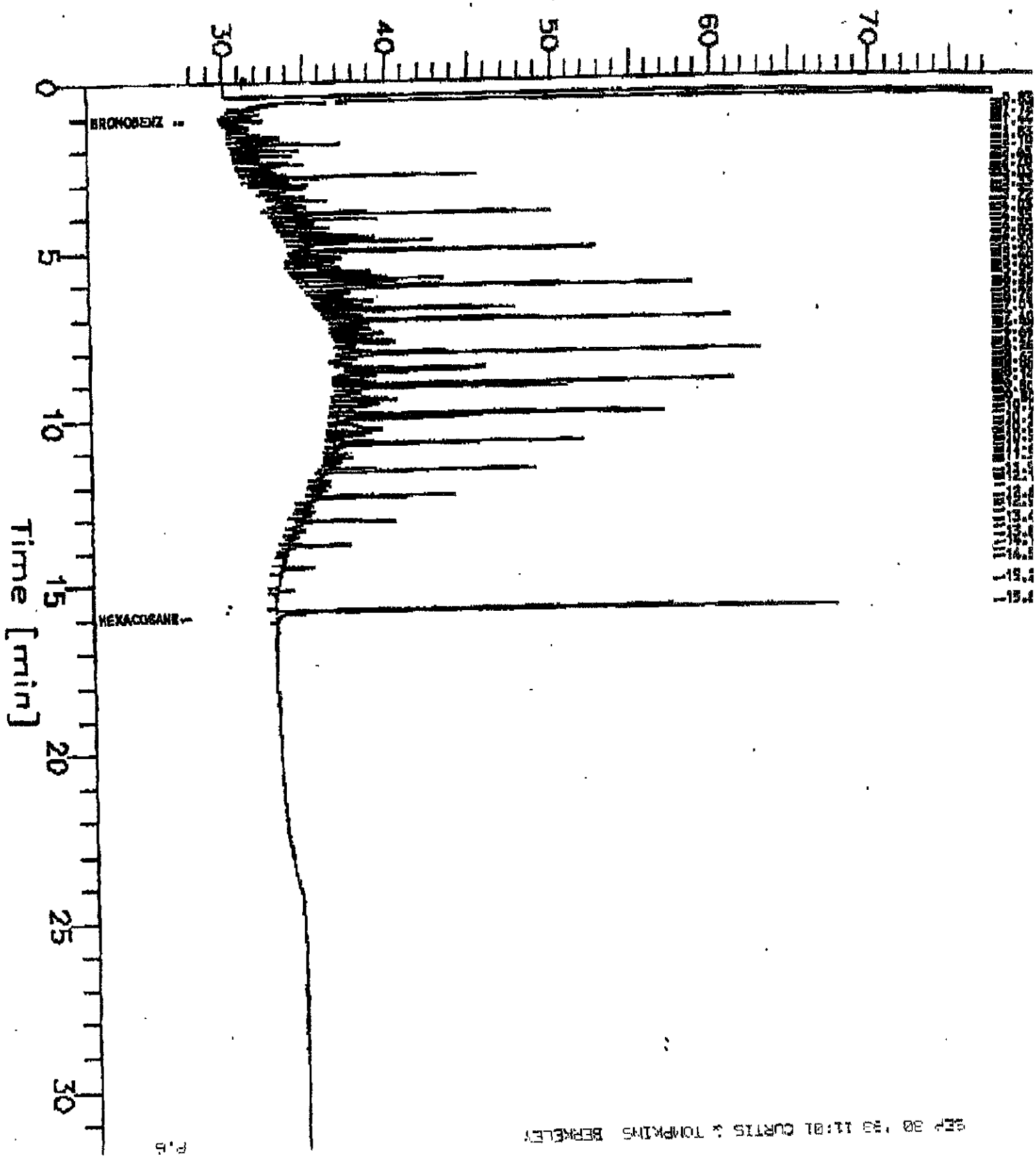
Sample Name : diesel 515 ng/L
Filename : d:\oct13\chn\272n003.raw
Method : TEH_CHN.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 31.92 min
Plot Offset: 28 mV

Sample #: 95wa5585
Date : 9/29/93 7:55 PM
Time of Injection: 9/29/93 7:21 PM
Low Point : 27.56 mV
High Point : 77.56 mV
Plot Scale: 50 mV

diesel Std.

Response [mV]

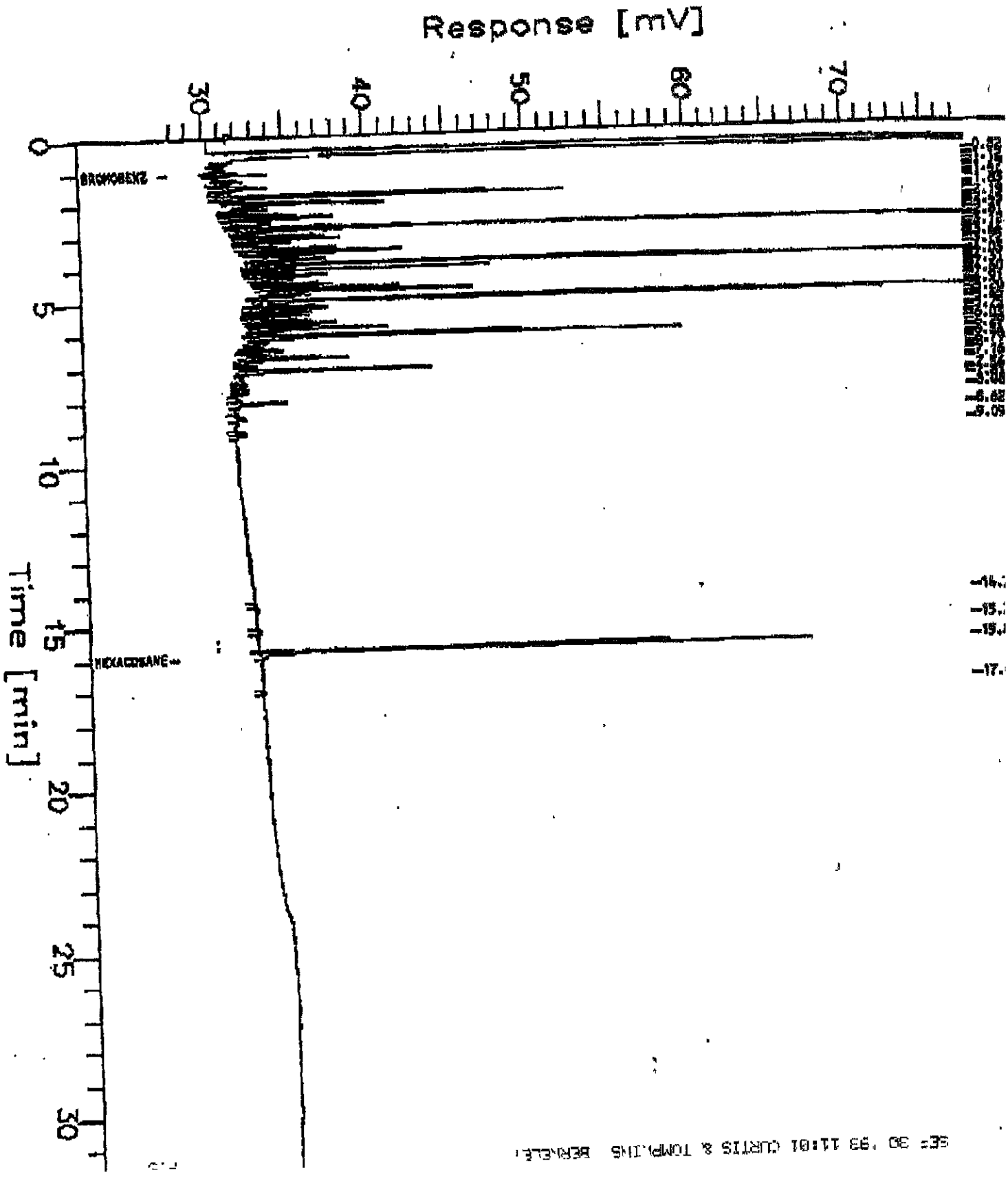


Page 1 of 1

Sample Name : kerosene 255 ug/L
FileName : g:\ge13\che\272a002.raw
Method : TEH_CHA.!ms
Start Time : 0.00 min
Scale Factor: 1

End Time : 31.92 min
Plot Offset: 28 mV

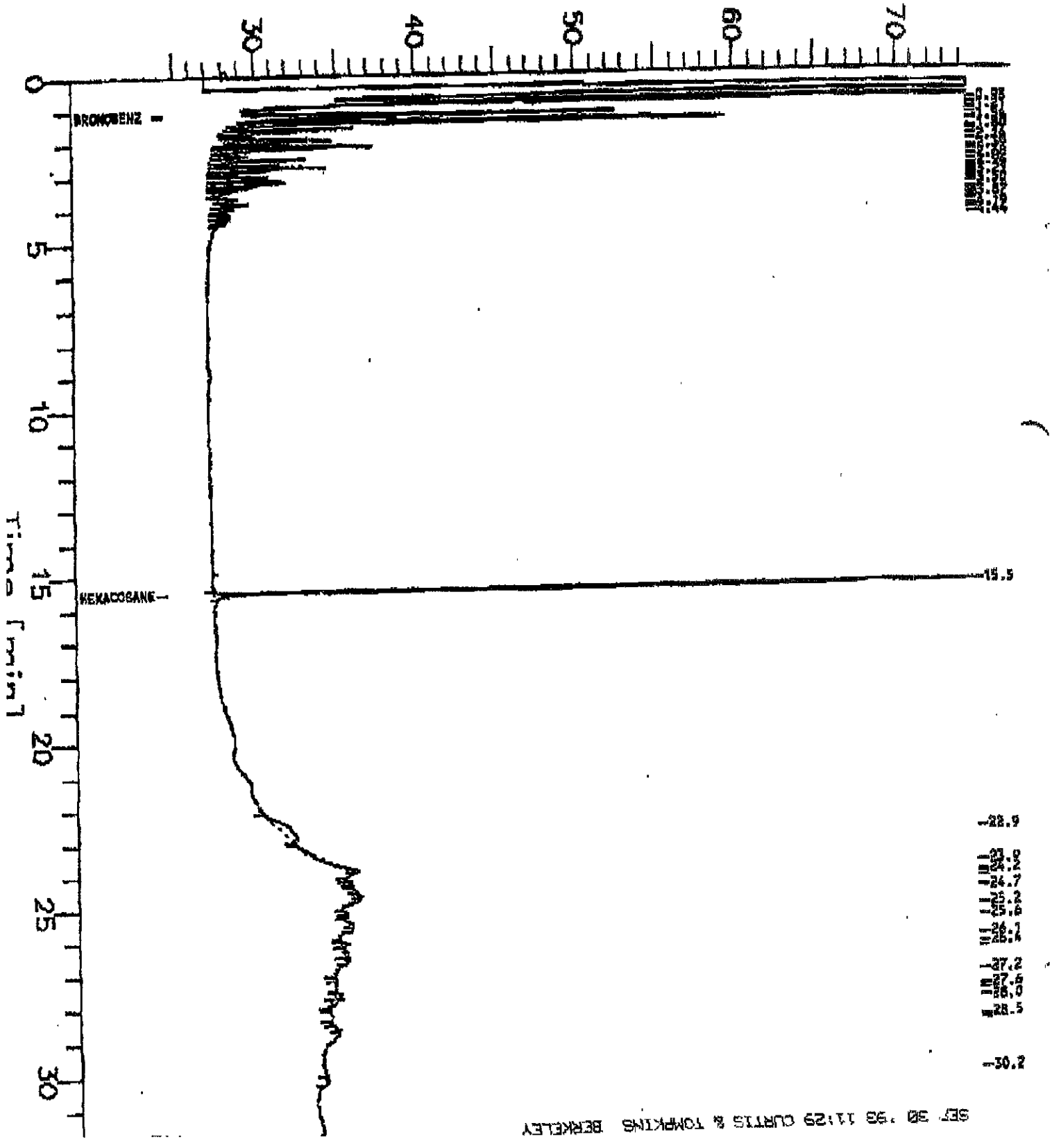
Sample #: 93ua2584
Date : 9/29/93 7:12 PM
Time of Injection: 9/29/93 8:39 PM
Low Point : 27.82 mV
High Point : 77.82 mV
Plot Scale: 50 mV



ple Name : gasoline 219 mg/L
eName : f:\gc13\cha\165a003.raw
hod : TEH_CHA.ins
rt Time : 0.00 min End Time : 31.92 min
le Factor: 1 Plot Offset: 24 mV

Sample #: ws2801 Page 1 of 1
Data : 7/3/92 9:09 PM
Time of Injection: 7/3/92 8:36 PM
Low Point : 24.41 mV High Point : 74.41 mV
Plot Scale: 50 mV

Response [mV]

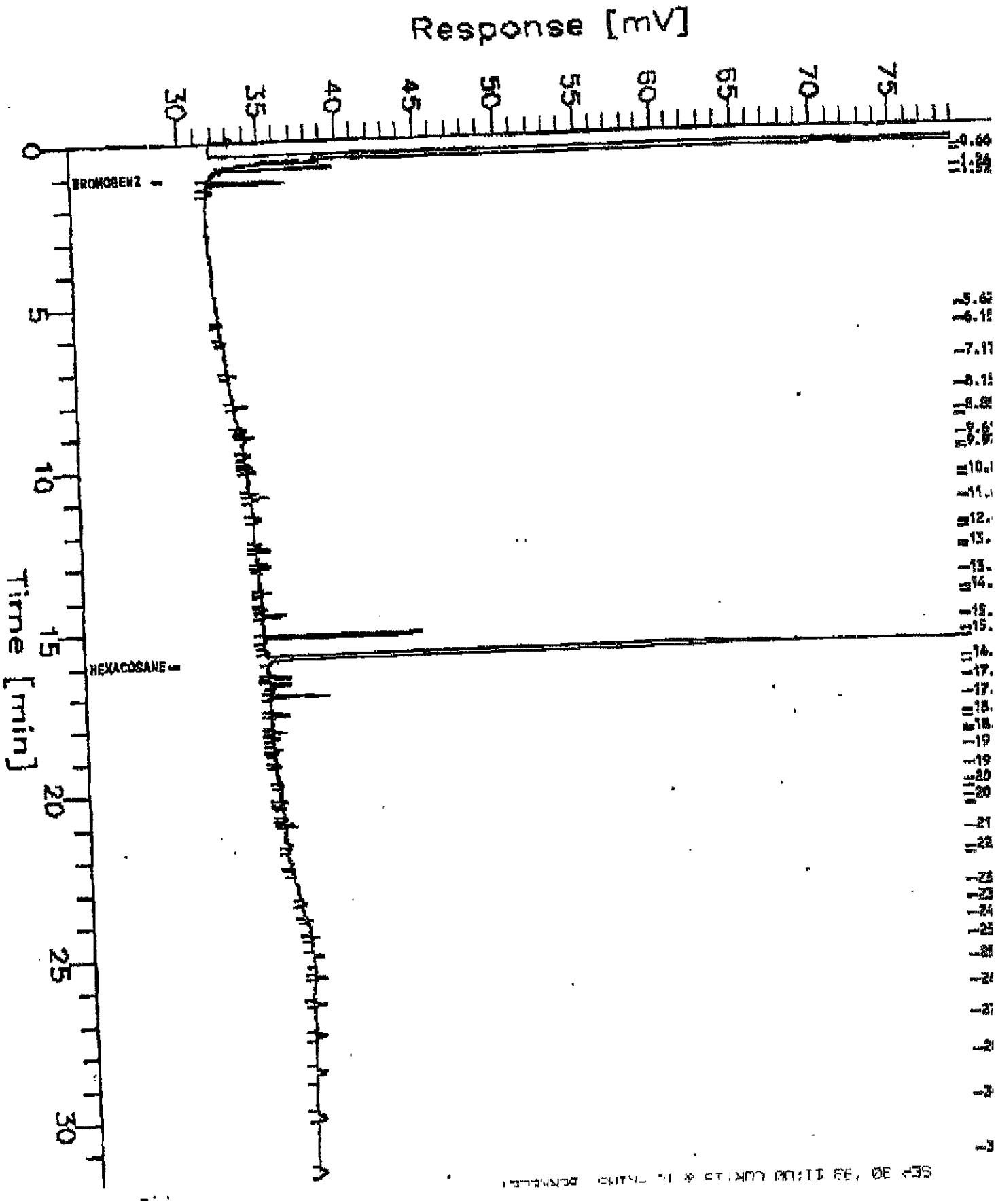


SEP 30 '93 11:29 CURTIS & TOMPKINS BERKELEY

Sample Name : Method Blank 092793
FileName : B:\gc13\cha\270a005.raw
Method : TEH_CNA.ins
Start Time : 0.00 min
Scale Factor: -1

End Time : 31.92 min
Plot Offset: 29 mV

Data ID#: 10689
Date : 9/27/93 11:21 PM
Time of Injection: 9/27/93 10:49 PM
Low Point : 29.05 mV
High Point : 79.05 mV
Plot Scale: 50 mV



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112439
CLIENT: URIBE & ASSOCIATES
PROJECT ID: 96-209
LOCATION: SHIPPER'S IMPERIAL

DATE SAMPLED: 09/23/93
DATE RECEIVED: 09/24/93
DATE ANALYZED: 09/29/93
DATE REPORTED: 09/29/93

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
Extraction by EPA 5030 Purge and Trap

LAB ID	SAMPLE ID	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)	REPORTING LIMIT (ug/Kg)
		ppm				
112439-1	W-1	110 110,000*	ND	1,400,000	3,100,000	200,000
112439-2	W-2	180 180,000**	330,000**	1,800,000	5,600,000	300,000

why is water in ug/kg ? Should be ug/L
indicates gasoline

*Analyzed at a 1:32,000 dilu...

**Analyzed at a 1:50,000 dilutio...

ND = Not detected at or above reporting ...

Reporting Limit applies to all analytes.

QA/QC SUMMARY

RPD, %	5
RECOVERY, %	93

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

2323 5th Street
Berkeley, CA 94710
Phone: (510) 486-0900
FAX: (510) 486-0532

FAX TRANSMISSION

To:

NAME Michael James 465-3755

COMPANY FAX NUMBER

From:

NAME Tomiko Brown

Reference:

Message:

If you do not receive all pages, Please Call (510) 486-0900 **Page:**_____ **of** _____

Date:_____

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112439
CLIENT: URIBE & ASSOCIATES
PROJECT ID: 96-209
LOCATION: SHIPPER'S IMPERIAL

DATE SAMPLED: 09/23/93
DATE RECEIVED: 09/24/93
DATE ANALYZED: 09/28/93
DATE REPORTED: 09/29/93

Total Volatile Hydrocarbons with BTXE in Soils & Wastes
TVH by California DOHS Method/LUFT Manual October 1989
BTXE by EPA 5030/8020

8015

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
				ppm		
112439-3	S-1	700	6,700	6.7 2,600	9,200	25,000
112439-4	S-2	5	23	.023 19	30	66
112439-5	S-3	1,700	ND(500)	2,000	13,000	52,000
112439-6	S-6	1,300	290	.29 8,500	11,000	51,000
112439-7	S-7	190	51	.051 250	410	4,200
112439-8	S-8	8	ND(5)	6	ND(5)	23

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY

RPD, %	9
RECOVERY, %	92

Table 1 Summary of Gasoline and BTEX Results for Confirmation Samples

	Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes	diesel
	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	Ppm
10-5-93 CON-1 at 9'	900	2,500	20,000	15,000	65,000	6700
CON-2 9'	1,500	5,700	36,000	22,000	82,000	1600
CON-3 9'	ND	ND	ND	ND	ND	ND
10-15 CON-1-2.0	ND	ND	ND	ND	ND	.25
CON-2-2.0	ND	ND	ND	ND	ND	140

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 112765
CLIENT: URIBE & ASSOCIATES
PROJECT ID: 96-209
LOCATION: SHIPPER'S IMPERIAL

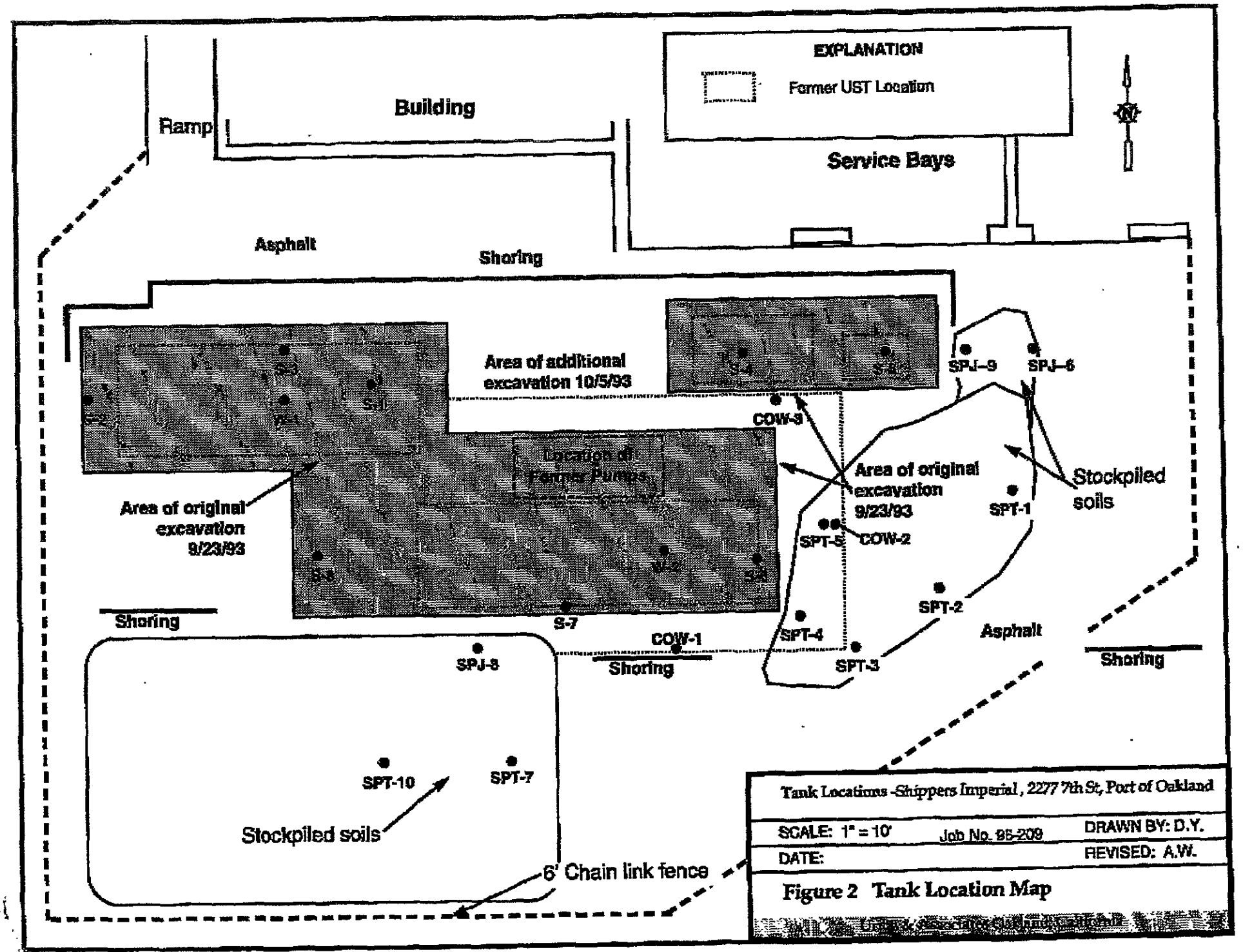
DATE SAMPLED: 10/15/93
DATE RECEIVED: 10/15/93
DATE ANALYZED: 10/19/93
DATE REPORTED: 10/19/93

Total Volatile Hydrocarbons with BTXE in Soils & Wastes
TVH by California DOHS Method/LUFT Manual October 1989
BTXE by EPA 5030/8020

LAB ID	SAMPLE ID	TVH AS GASOLINE (mg/Kg)	BENZENE (ug/Kg)	TOLUENE (ug/Kg)	ETHYL BENZENE (ug/Kg)	TOTAL XYLENES (ug/Kg)
112765-001	CON-1-2.0	ND(1)	ND(5)	ND(5)	ND(5)	ND(5)
112765-002	CON-2-2.0	ND(1)	ND(5)	ND(5)	ND(5)	ND(5)

ND = Not detected at or above reporting limit; Reporting limit indicated in parentheses.

QA/QC SUMMARY	
RPD, %	2
RECOVERY, %	99


EXPLANATION
Former UST Location
Building
Ramp
Service Bays
Asphalt
Shoring
Area of additional excavation 10/5/93
Area of original excavation 9/23/93
Location of Former Pumps
Area of original excavation 9/23/93
Stockpiled soils
Shoring
Shoring
Asphalt
Shoring
SPJ-9
SPJ-6
COW-3
SPT-1
SPT-5
COW-2
SPT-2
SPT-4
SPT-3
COW-1
SPJ-8
SPT-10
SPT-7
Stockpiled soils
6' Chain link fence
Tank Locations -Shippers Imperial, 2277 7th St, Port of Oakland
SCALE: 1" = 10'
Job No. 95-209
DRAWN BY: D.Y.
DATE:
REVISED: A.W.
Figure 2 Tank Location Map