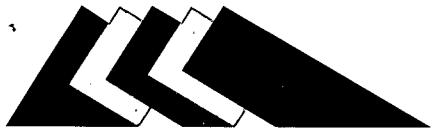


3R - 77

REPORTS

DATE:

June 21, 1994



GEOWEST
Golden, Inc.

RECEIVED, OIL DIVISION
RECEIVED

JUN 21 1994 8 50

June 21, 1994

Mr. William C. Olson, Hydrogeologist
State of New Mexico Oil Conservation Division
P.O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87504

RE: Ground Water Quality Monitoring Report, Maverik Refinery and Tank Farm
Kirtland, New Mexico

Dear Bill:

On behalf of our client, Maverik Country Stores, Inc., transmitted herewith are the analytical results of the semiannual ground water monitoring conducted at the referenced site in May 1994. As agreed in previous communications, included is an updated table providing a summary of analytical results. Analytical data sheets are also provided.

As was planned, nutrient addition to the area within the slurry wall confines was recently conducted to stimulate biodegradation. The addition of nutrients was conducted in the manner described in the Report of Ground Water Monitoring results dated January 28, 1994. Results will be discussed in a report to be submitted following performance of the second semiannual sampling of on-site wells and annual sampling of off-site wells.

Our next planned activity at the site will involve sampling of both on-site and off-site wells. It is anticipated that this work will be completed in October or early November. We will advise you in advance relative to the performance of this activity.

9131.01\COR\131OLSN2.LTR

Mr. William Olson
June 21, 1994

Page 2

Please feel free to call if you have any questions or require any further information at this time.

Sincerely,
GeoWest Golden, Inc.

A handwritten signature in cursive script, reading "Paul R. Weissenborn".

Paul R. Weissenborn
Project Manager

cc Denny Foust, New Mexico OCD
Dan Murray, Maverik Country Stores, Inc.
Bob Krueger, GeoWest Golden

TABLE 5

**SUMMARY OF GROUND WATER QUALITY MONITORING RESULTS
SINCE INSTALLATION OF SLURRY WALL**

Location	Sampling Period	DCA	B	T	E	X	Total BTEX	pH	SC
<u>Within Slurry Wall</u> MW-17	1 (9/90)	360*	11,000*	15,000*	1,160*	13,000*	40,000	7.01	2,500
	2 (3/91)	400*	11,000*	10,000*	1,900*	15,000*	37,900	7.04	2,700
	3 (6/91)	420*	9,800*	6,300*	1,800*	16,000*	33,900	7.04	2,650
	4 (1/92)	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG
	5 (6/92)	45*	9,240*	7,580*	1,150*	7,190*	25,160	7.26	2,730
	6 (8/92)	27*	7,710*	1,920*	669	5,130*	15,429	7.23	2,810
	7 (12/92)	17.3*	7,990*	4,740*	638	4,600*	17,968	7.54	2,970
	8 (3/93)	16.8*	13,800*	6,830*	1,110*	6,930*	28,670	7.37	2,610
	9 (5/93)	12.5*	13,700*	6,360*	993*	10,530*	31,583	7.33	2,470
	10 (11/93)	30.9*	8,590*	2,820*	636	4,880*	16,926	7.39	2,360
	11 (5/94)	8.3	10,900	4,340	823	5,660	21,723	7.30	2,830
MW-22	1 (9/90)	7,200*	21,000*	20,000*	1,100*	8,300*	50,400	7.00	1,500
	2 (3/91)	2,200*	17,000*	9,500*	910*	6,600*	34,010	6.87	1,900
	3 (6/91)	3,600*	15,000*	3,200*	760*	3,000*	21,960	7.06	1,700
	4 (1/92)	5,400*	36,000*	27,000*	1,900*	13,500*	78,400	6.86	1,600
	5 (6/92)	3,170*	21,200*	7,540*	1,040*	5,730*	35,510	7.13	1,690
	6 (8/92)	568*	20,500*	4,610*	588	3,280*	28,978	7.28	1,545
	7 (12/92)	908*	12,100*	4,220*	514	3,254*	20,088	7.43	1,508
	8 (3/93)	1,930*	29,800*	14,100*	1,170*	7,030*	52,100	7.26	1,408
	9 (5/93)	28*	17,000*	6,520*	1,100*	6,150*	30,770	7.61	6,550
	10 (11/93)	2,780*	18,400*	8,480*	1,150*	7,300*	35,330	8.01	1,610
	11 (5/94)	379	9,340	2,250	845	3,725	16,160	7.15	1,505
P-1	9 (5/93)	<1	4,110*	18.8	361	2,522*	7,012	7.04	2,290
	10 (11/93)	<1	3,580*	10.2	506	3,215*	7,311	7.22	1,460
	Dry								
P-2	9 (5/93)	3.2	5.2*	<1	<1	<1	5.2	7.36	3,910
	10 (11/93)	<1	<1	<1	<1	<1	<1	7.92	3,540
	11 (5/94)	1.3	<1	<1	<1	<1	<1	7.48	3,980
P-3	9 (5/93)	10.6*	<1	<1	<1	<1	<1	7.24	11,160
	10 (11/93)	11.5*	<1	<1	<1	<1	<1	7.31	9,140
	11 (5/94)	12.1	<1	<1	<1	<1	<1	7.28	8,070
P-4	9 (5/93)	8.3	6,690*	4,090*	559	6,260*	17,599	NA	NA
	10 (11/93)	2.1	6,400*	4,420*	900*	7,700*	19,420	NA	NA
	Dry								

TABLE 5 (continued)

**SUMMARY OF GROUND WATER QUALITY MONITORING RESULTS
SINCE INSTALLATION OF SLURRY WALL**

Location	Sampling Period	DCA	B	T	E	X	Total BTEX	pH	SC
<u>On-Site</u>									
MW-10	1 (9/90)	1.4	<0.5	<0.5	<0.5	<1	<1	6.95	1,550
	2 (3/91)	<1	<0.5	<0.5	<0.5	<0.5	<0.5	7.29	1,700
	3 (6/91)	NA	NA	NA	NA	NA	NA	NA	NA
	4 (1/92)	<5	<5	<5	<5	<5	<5	7.31	1,840
	5 (6/92)	1.6	<1	<1	<1	<1	1.6	7.65	1,400
	6 (8/92)	<1	<1	<1	<1	<1	<1	7.85	1,160
	7 (12/92)	<1	<1	<1	<1	<1	<1	7.64	6,110
	8 (3/93)	<1	<1	<1	<1	<1	<1	7.22	9,060
	9 (5/93)	1	<1	<1	<1	<1	<1	7.93	2,320
	10 (11/93)	<1	<1	<1	<1	<1	<1	7.73	1,320
	11 (5/94)	<1	<1	<1	<1	<1	<1	7.75	1,335
MW-18	1 (9/90)	<1	17*	<12	84	880*	981	7.00	1,500
	2 (3/91)	<1	26*	<12	85	770*	881	7.24	1,200
	3 (6/91)	<1	<25	<25	78	930*	1,008	6.77	1,200
	4 (1/92)	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG
	5 (6/92)	<1	313*	1.1	200	1,710*	2,224	7.07	1,480
	6 (8/92)	<1	527*	10.8	258	2,075*	2,871	7.26	2,100
	7 (12/92)	<25	294*	<25	224	1,460*	1,978	7.31	1,930
	8 (3/93)	<1	117*	8	96	226	447	7.07	2,780
	9 (5/93)	<1	73*	<1	31.2	259	363	7.15	2,220
	10 (11/93)	<1	337*	4.9	261	1,352*	1,955	7.00	1,870
	11 (5/94)	<1	51	10.0	7	99	167	7.00	1,510
MW-19	1 (9/90)	45*	<0.5	<0.5	1.1	1.9	3	6.95	3,000
	2 (3/91)	35*	<0.5	<0.5	<0.5	<0.5	<0.5	7.22	2,500
	3 (6/91)	44*	<0.5	<0.5	5.9	<0.5	5.9	7.10	2,400
	4 (1/92)	14*	<5	<5	<5	<5	<5	7.66	460
	5 (6/92)	11.4*	<1	<1	<1	<1	<1	7.76	1,970
	6 (8/92)	9.0	<1	<1	<1	<1	<1	7.72	1,320
	7 (12/92)	6.6	<1	<1	<1	<1	<1	7.70	1,620
	8 (3/93)	2.4	<1	<1	<1	<1	<1	7.74	1,750
	9 (5/93)	7.9	<1	<1	<1	<1	<1	7.73	1,630
	10 (11/93)	6.6	<1	<1	<1	<1	<1	7.78	1,380
	11 (5/94)	8.0	<1	<1	<1	<1	<1	7.65	1,762
MW-20	1 (9/90)	<1	<0.5	<0.5	<0.5	<1	<1	7.01	1,350
	2 (3/91)	2.0	<0.5	<0.5	<0.5	0.7	1	7.39	3,000
	3 (6/91)	NA	NA	NA	NA	NA	NA	NA	NA
	4 (1/92)	<5	<5	<5	<5	<5	<5	7.54	3,750
	5 (6/92)	<1	<1	<1	<1	<1	<1	7.62	1,600
	6 (8/92)	<1	<1	<1	<1	<1	<1	6.97	1,310
	7 (12/92)	<1	<1	<1	<1	<1	<1	7.87	1,340
	8 (3/93)	2.1	<1	<1	<1	<1	2	7.10	6,740
	9 (5/93)	<1	<1	<1	<1	<1	<1	7.86	1,430
	10 (11/93)	<1	<1	<1	<1	<1	<1	7.69	1,230
	11 (5/94)	<1	<1	<1	<1	<1	<1	7.38	1,292

TABLE 5 (continued)

**SUMMARY OF GROUND WATER QUALITY MONITORING RESULTS
SINCE INSTALLATION OF SLURRY WALL**

Location	Sampling Period	DCA	B	T	E	X	Total BTEX	pH	SC
MW-21	1 (9/90)	67*	<0.5	1.5	1.1	5	8	7.01	1,500
	2 (3/91)	44*	<0.5	<0.5	<0.5	<0.5	<0.5	7.62	1,700
	3 (6/91)	40*	<0.5	<0.5	<0.5	<0.5	<0.5	7.44	1,700
	4 (1/92)	8.8	<5	<5	<5	<5	<5	8.31	5,110
	5 (6/92)	21.9*	<1	<1	<1	<1	<1	7.37	2,400
	6 (8/92)	8.3	<1	<1	<1	<1	<1	6.96	1,730
	7 (12/92)	1.7	<1	<1	<1	<1	<1	7.69	2,030
	8 (3/93)	5.9	<1	<1	<1	<1	<1	7.58	1,590
	9 (5/93)	14.8*	<1	<1	<1	<1	<1	7.63	2,530
	10 (11/93)	3.7	<1	<1	<1	<1	<1	7.58	1,580
	11 (5/94)	8.3	<1	<1	<1	<1	<1	7.66	1,592
<u>Off-Site</u>									
MW-9	1 (9/90)	2.1	<0.5	<0.5	<0.5	<1	<1	6.97	1,550
	2 (3/91)	1.8	<0.5	<0.5	<0.5	1.2	1.2	7.57	2,000
	3 (6/91)	NA	NA	NA	NA	NA	NA	NA	NA
	4 (1/92)	<5	<5	<5	<5	<5	<5	7.31	4,360
	5 (6/92)	1.5	<1	<1	<1	<1	<1	7.58	1,680
	6 (8/92)	<1	<1	<1	<1	<1	<1	7.81	1,325
	7 (12/92)	<1	<1	<1	<1	<1	<1	7.33	1,827
	8 (3/93)	1.5	<1	<1	<1	<1	<1	7.63	1,640
	9 (5/93)	NA	NA	NA	NA	NA	NA	NA	NA
	10 (11/93)	<1	<1	<1	<1	<1	<1	7.62	1,460
MW-13	1 (9/90)	<1	<0.5	1.5	<0.5	<1	1.5	7.02	2,950
	2 (3/91)	<1	<0.5	<0.5	<0.5	<0.5	<0.5	7.84	3,250
	3 (6/91)	NA	NA	NA	NA	NA	NA	NA	NA
	4 (1/92)	NA	NA	NA	NA	NA	NA	NA	NA
	5 (6/92)	<1	<1	<1	<1	<1	<1	7.11	4,260
	6 (8/92)	<1	<1	<1	<1	<1	<1	7.06	2,910
	7 (12/92)	NA	NA	NA	NA	NA	NA	NA	NA
	8 (3/93)	<1	<1	<1	<1	<1	<1	7.72	3,410
	9 (5/93)	NA	NA	NA	NA	NA	NA	NA	NA
	10 (9/93)	<1	<1	<1	<1	<1	<1	7.45	4,150
MW-14	1 (9/90)	2.0	<0.5	<0.5	<0.5	<1	<1	6.97	5,450
	2 (3/91)	<1	<0.5	<0.5	<0.5	1.7	<0.5	7.51	8,400
	3 (6/91)	NA	NA	NA	NA	NA	NA	NA	NA
	4 (1/92)	<5	<5	<5	<5	<5	<5	7.20	19,380
	5 (6/92)	2.3	<1	<1	<1	<1	<1	7.62	4,520
	6 (8/92)	<1	<1	<1	<1	<1	<1	7.38	5,760
	7 (12/92)	<1	<1	<1	<1	<1	<1	7.40	9,090
	8 (3/93)	<1	<1	<1	<1	<1	<1	7.02	15,280
	9 (5/93)	NA	NA	NA	NA	NA	NA	NA	NA
	10 (11/93)	1.2	<1	<1	<1	<1	<1	7.61	6,030

TABLE 5 (continued)

**SUMMARY OF GROUND WATER QUALITY MONITORING RESULTS
SINCE INSTALLATION OF SLURRY WALL**

Location	Sampling Period	DCA	B	T	E	X	Total BTEX	pH	SC
MW-15	1 (9/90)	<1	<0.5	<0.5	<0.5	<1	<1	7.00	3,250
	2 (3/91)	<1	<0.5	<0.5	<0.5	<0.5	<0.5	7.02	8,500
	3 (6/91)	NA	NA	NA	NA	NA	NA	NA	NA
	4 (1/92)	<5	<5	<5	<5	<5	<5	7.15	12,120
	5 (6/92)	<1	<1	<1	<1	<1	<1	7.27	3,430
	6 (8/92)	<1	<1	<1	<1	<1	<1	7.39	2,450
	7 (12/92)	NA	NA	NA	NA	NA	NA	NA	NA
	8 (3/93)	<1	<1	<1	<1	<1	<1	7.42	9,810
	9 (5/93)	NA	NA	NA	NA	NA	NA	NA	NA
	10 (11/93)	<1	<1	<1	<1	<1	<1	8.01	1,630
MW-16	1 (9/90)	<1	<0.5	<0.5	<0.5	<1	<1	6.97	1,370
	2 (3/91)	<1	<0.5	<0.5	<0.5	<0.5	<0.5	7.57	1,200
	3 (6/91)	NA	NA	NA	NA	NA	NA	NA	NA
	4 (1/92)	<5	<5	<5	<5	<5	<5	7.30	2,050
	5 (6/92)	<1	<1	<1	<1	<1	<1	7.50	1,430
	6 (8/92)	<1	<1	<1	<1	<1	<1	7.76	1,230
	7 (12/92)	<1	<1	<1	<1	<1	<1	7.12	1,735
	8 (3/93)	<1	<1	<1	<1	<1	<1	7.23	2,400
	9 (5/93)	NA	NA	NA	NA	NA	NA	NA	NA
	10 (11/93)	<1	<1	<1	<1	<1	<1	7.31	1,760
<u>Water Quality Stds.</u>									
New Mexico		10	10	750	750	620		6-9	----
EPA MCL		5	5	1,000	700	10,000		----	----

NOTES:

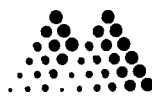
Abbreviations: DCA = 1,2-dichloroethane; B = benzene; T = toluene; E = ethylbenzene; X = xylenes; SC = specific conductivity; TDS = total dissolved solids; MSG = well missing; NA = not analyzed

Organic values in $\mu\text{g/l}$; pH in standard units; SC in $\mu\text{mhos/cm}$

Sampling dates: 1 = Sept. 13 & 14, 1990; 2 = March 18 & 19, 1991; 3 = June 13, 1991; 4 = January 20 & 21, 1992; 5 = June 9 & 12, 1992; 6 = August 19 & 20, 1992; 7 = December 16, 1992; 8 = March 30, 1993; 9 = May 23, 1993; 10 = November 29 & 30, 1993; 11 = May 25, 1994

* = exceeds New Mexico MCL for drinking water

From sampling period 5 onward, samples were obtained from replacement wells at MW-17 and MW-18



Mountain States Analytical

The Quality Solution

Geowest Golden, Inc. Salt Lake Office
175 West 200 South
Suite # 2006
Salt Lake City, Ut 84101

Attn: Mr. Paul Weissenborn
Project: Maverik - Kirtland NM

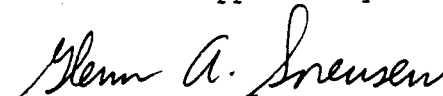
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Matrix: Waste Water

MSAI Sample: 19461
MSAI Group: 4781
Date Reported: 06/09/94

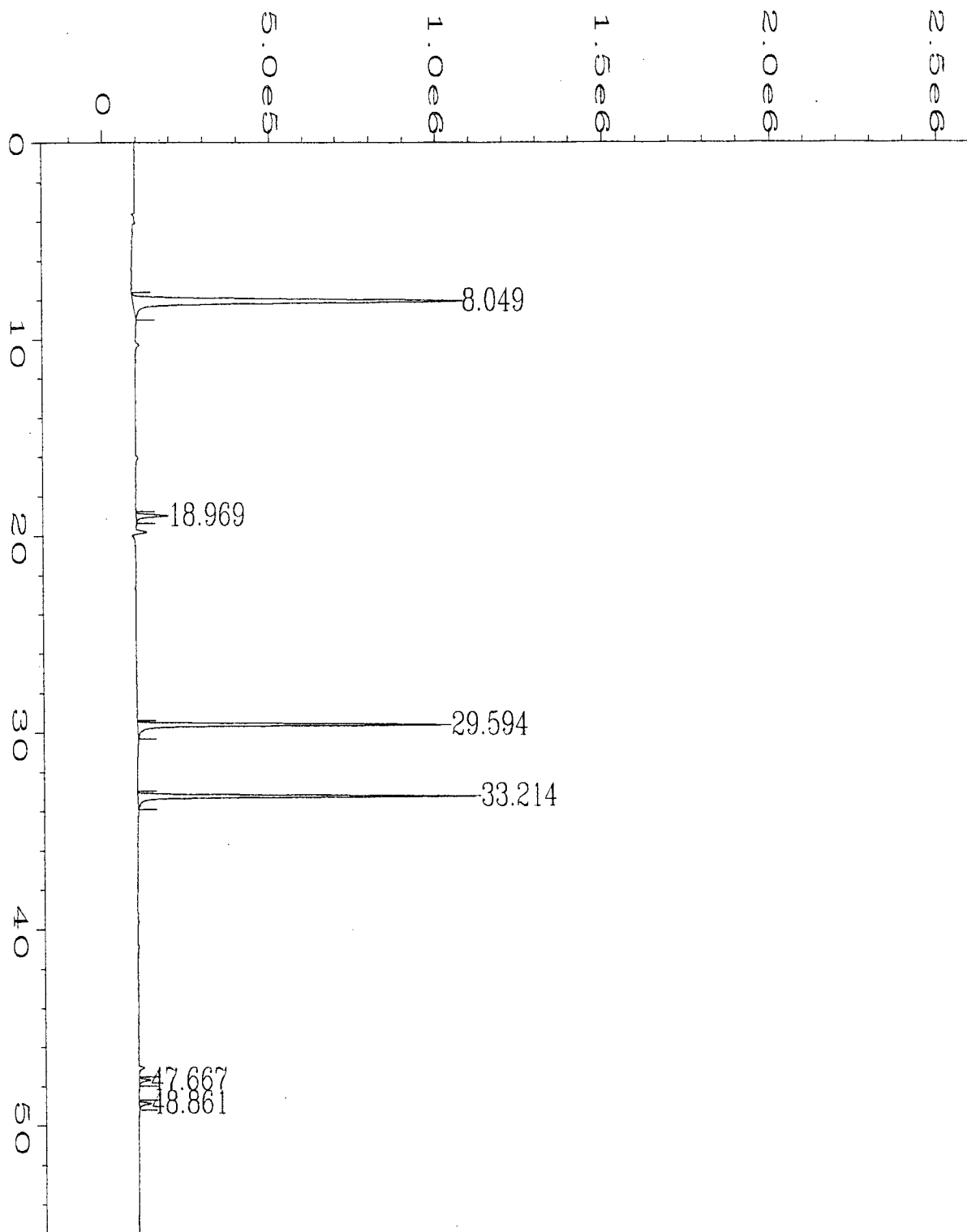
Discard Date: 07/09/94
Date Submitted: 05/27/94
Date Sampled: 05/25/94
Collected by: DA
Purchase Order: 9131.01
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation
----	-----	-----	-----	-----
5515	Purgeable Aromatics/Halocarbons Method: 600 SERIES 601/602			
	1,2-Dichloroethane	< 1.0	ug/l	1.0
	Benzene	< 1.0	ug/l	1.0
	Toluene	< 1.0	ug/l	1.0
	Ethylbenzene	< 1.0	ug/l	1.0
	m,p-Xylene	< 1.0	ug/l	1.0
	o-Xylene	< 1.0	ug/l	1.0
6159	Chromatograms/Etc. GC Method: IN HOUSE MSAI	See Attached		

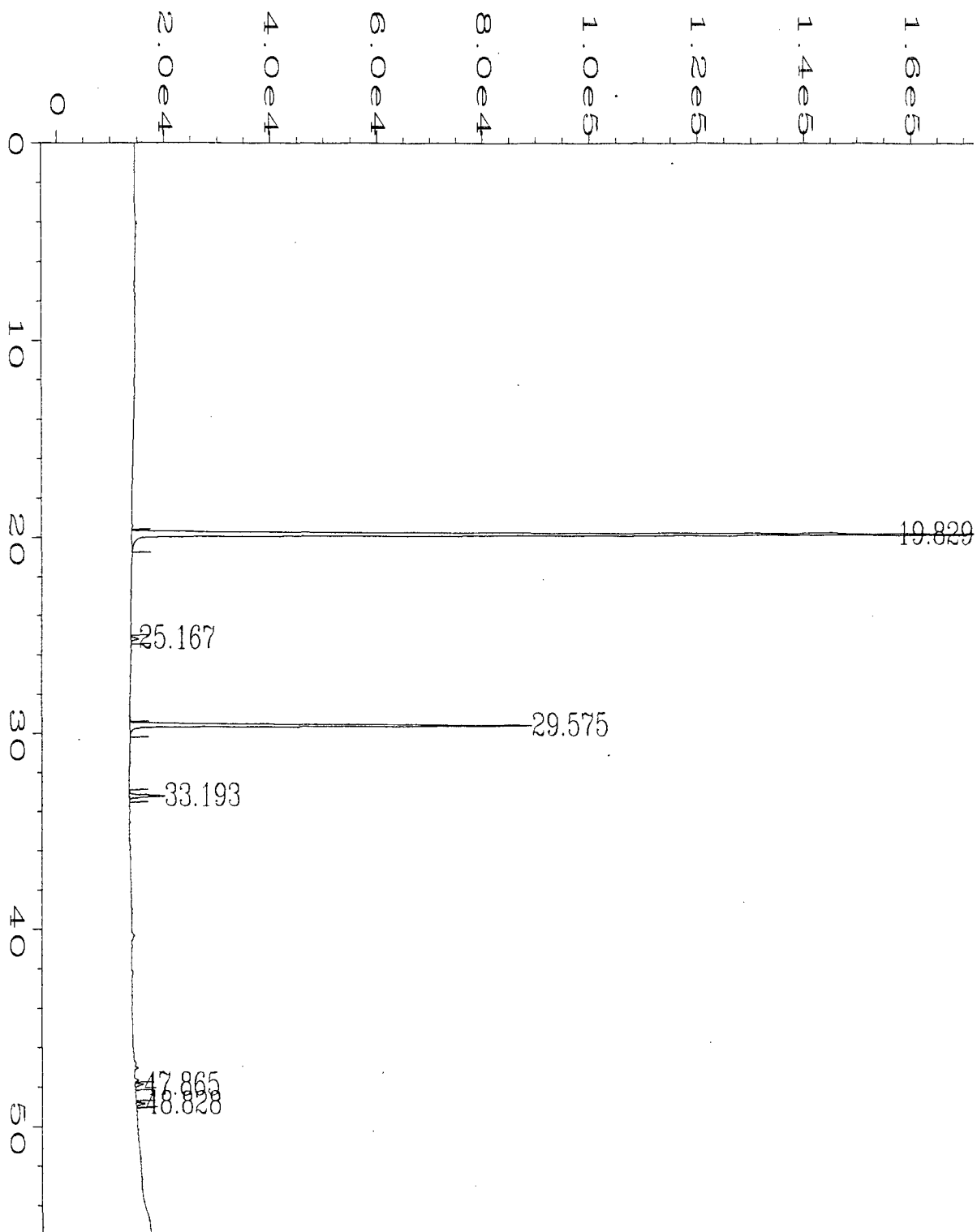
Respectfully Submitted,
Reviewed and Approved by:


Glenn A. Sorensen
Project Manager





Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\086F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 86
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19461 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 502VOL1.MTH
Acquired on	: 01 Jun 94 09:56 AM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 08:57 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\086R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 86
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19461 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 502VOL1.MTH
Acquired on	: 01 Jun 94 09:56 AM	Analysis Method	: 502VOL2.MTH
Report Created on:	: 08 Jun 94 07:10 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



Mountain States Analytical

The Quality Solution

Geowest Golden, Inc. Salt Lake Office
175 West 200 South
Suite # 2006
Salt Lake City, Ut 84101

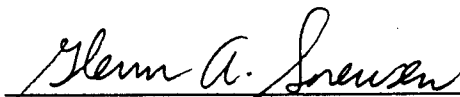
Attn: Mr. Paul Weissenborn
Project: Maverik - Kirtland NM

Sample ID: MW-17
Matrix: Waste Water

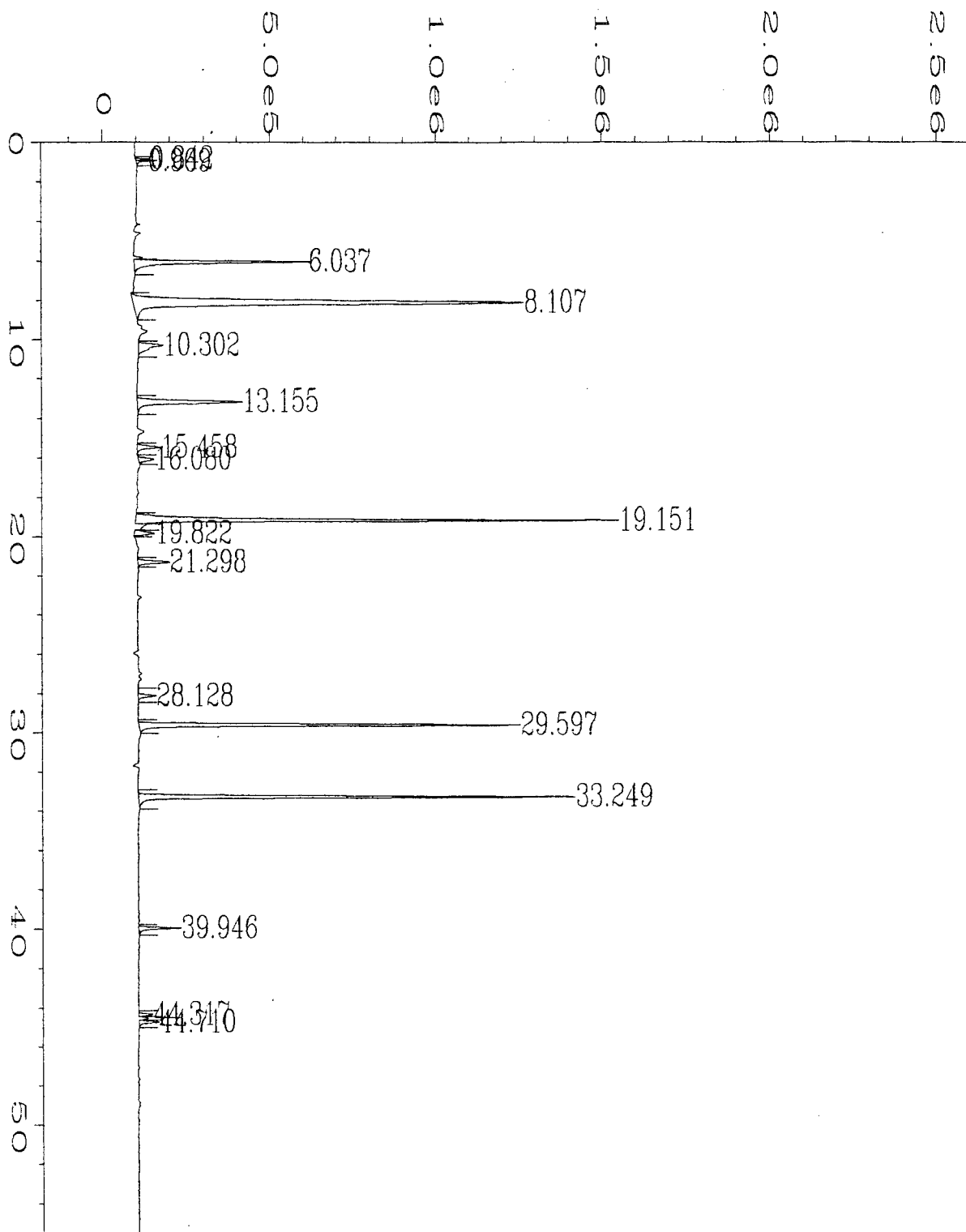
MSAI Sample: 19462
MSAI Group: 4781
Date Reported: 06/09/94
Discard Date: 07/09/94
Date Submitted: 05/27/94
Date Sampled: 05/25/94
Collected by: DA
Purchase Order: 9131.01
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation
5515	Purgeable Aromatics/Halocarbons Method: 600 SERIES 601/602			
	1,2-Dichloroethane	8.3	ug/l	1.0
	Benzene	10,900	ug/l	1,000
	Toluene	4,340	ug/l	200
	Ethylbenzene	823	ug/l	200
	m,p-Xylene	4,120	ug/l	200
	o-Xylene	1,540	ug/l	200
6159	Chromatograms/Etc. GC Method: IN HOUSE MSAI	See Attached		

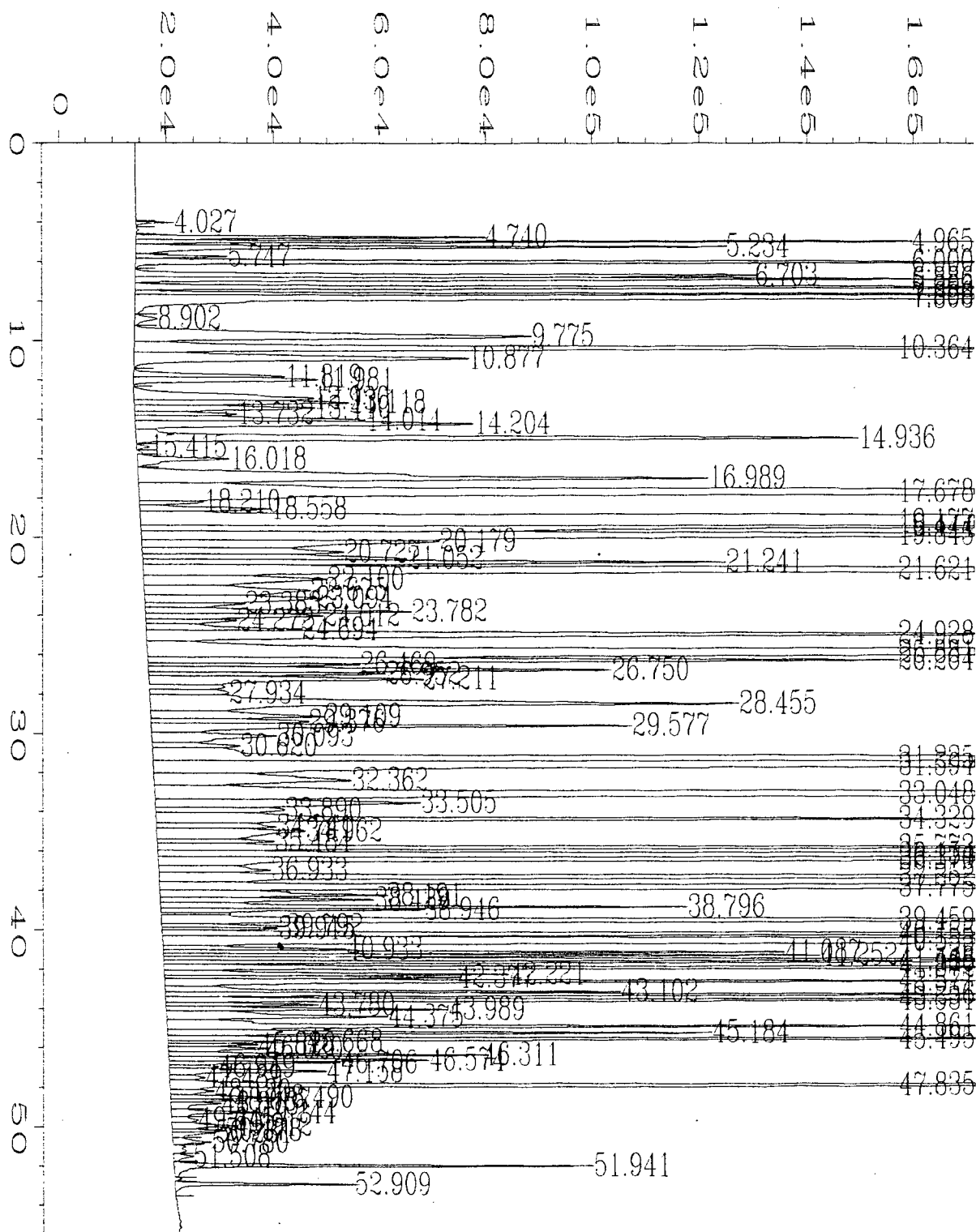
Respectfully Submitted,
Reviewed and Approved by:


Glenn A. Sorensen
Project Manager

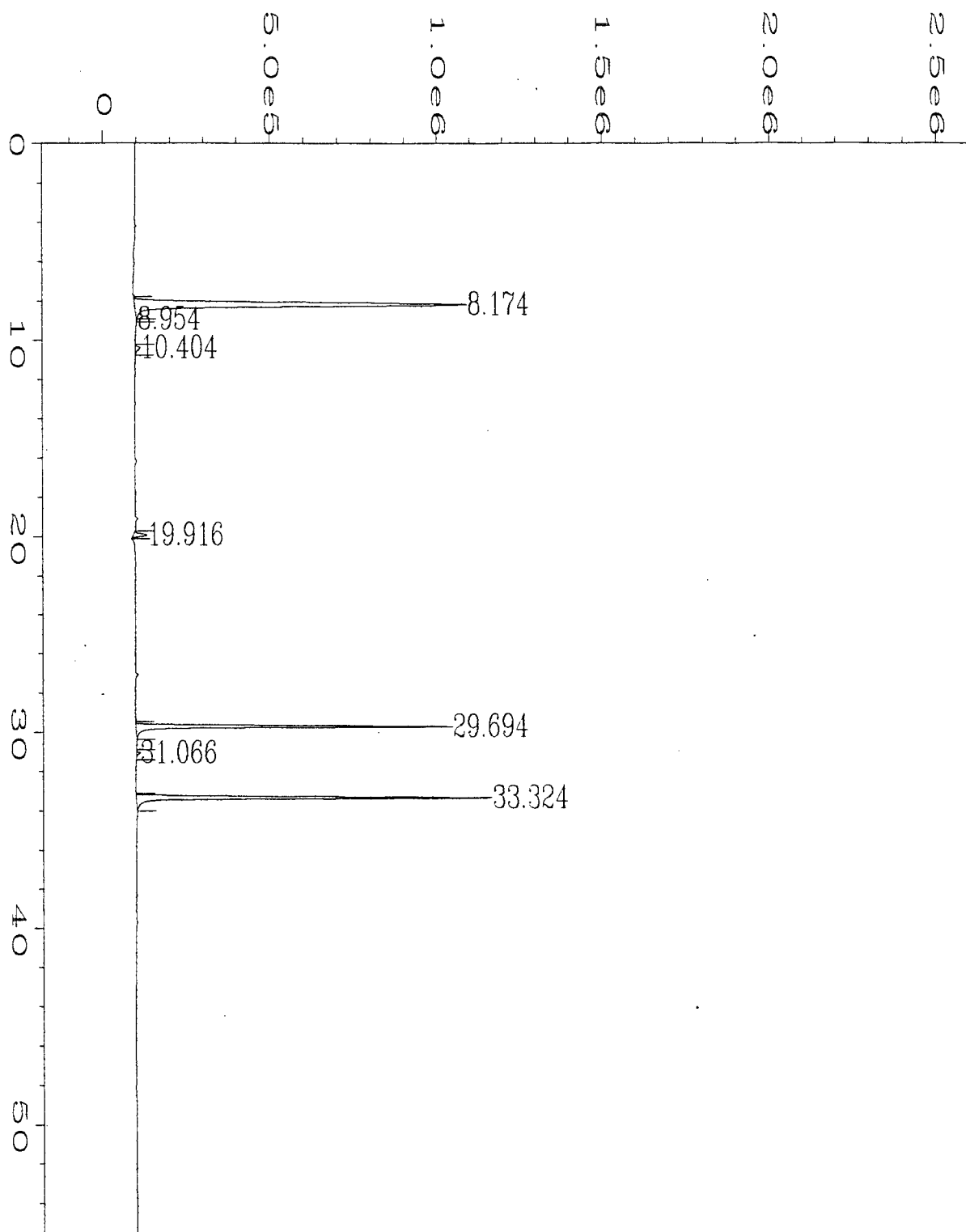




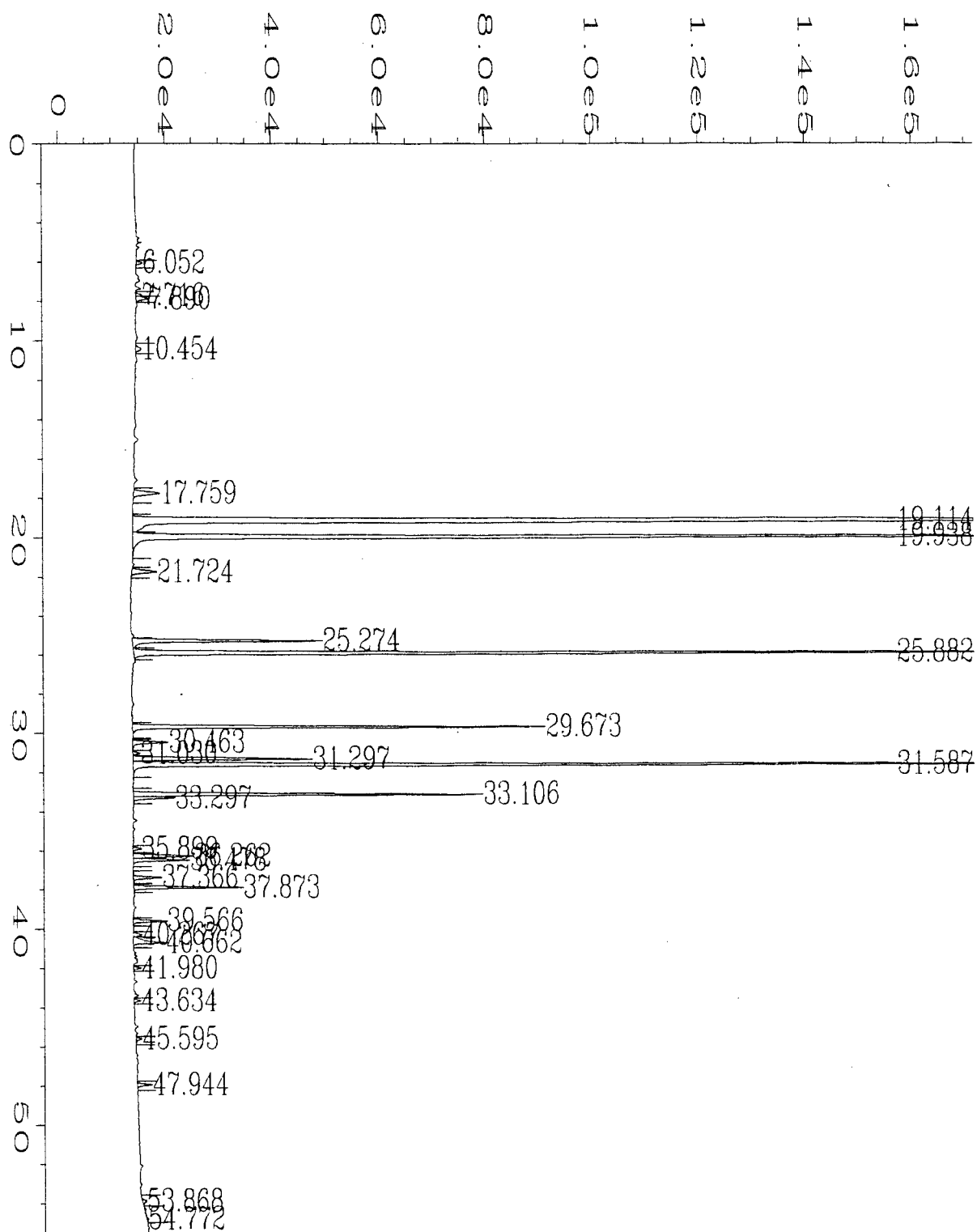
Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\087F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 87
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19462 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 10:59 AM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 08:57 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



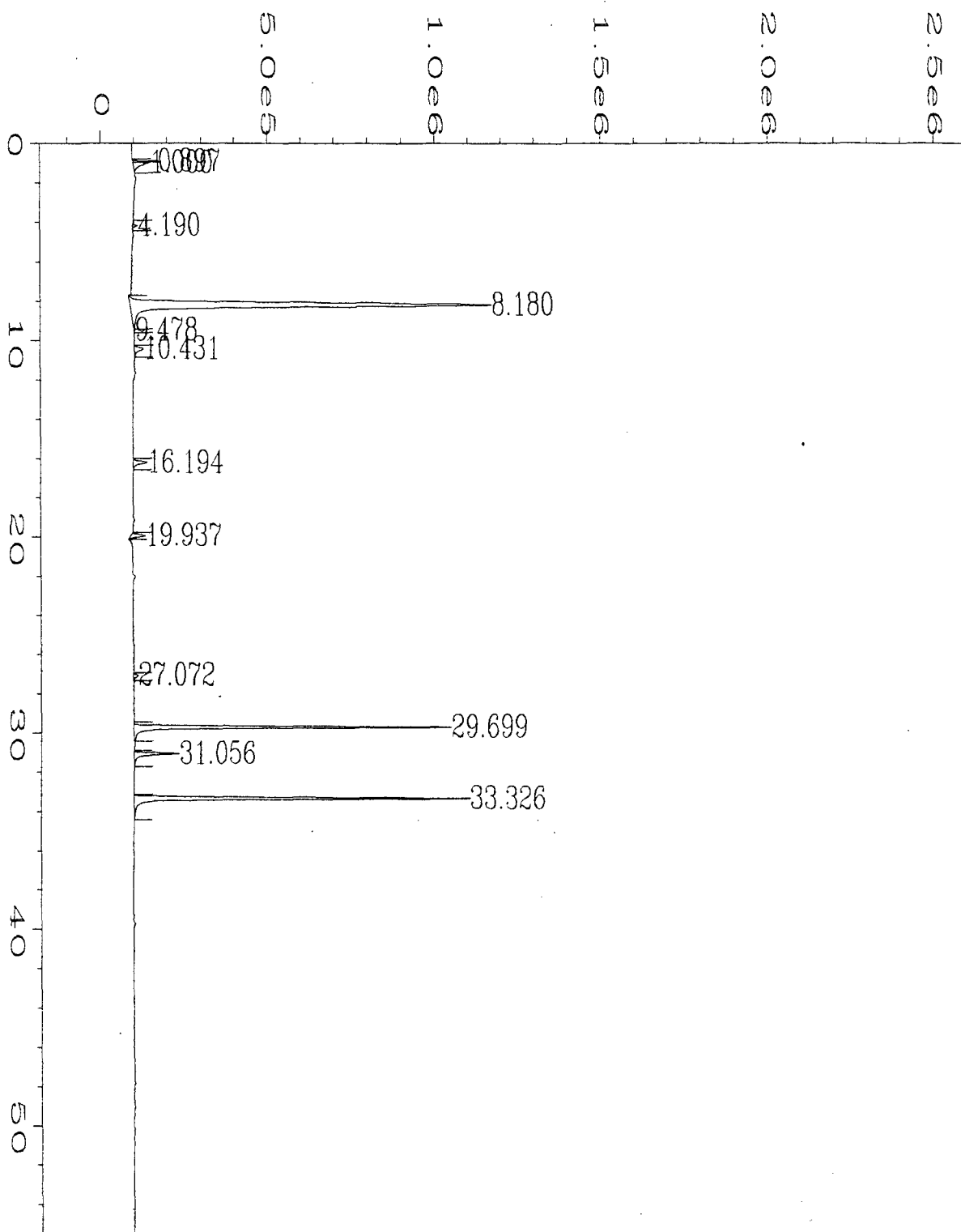
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Operator	: PWK	Vial Number	: 87
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19462 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 10:59 AM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 07:11 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



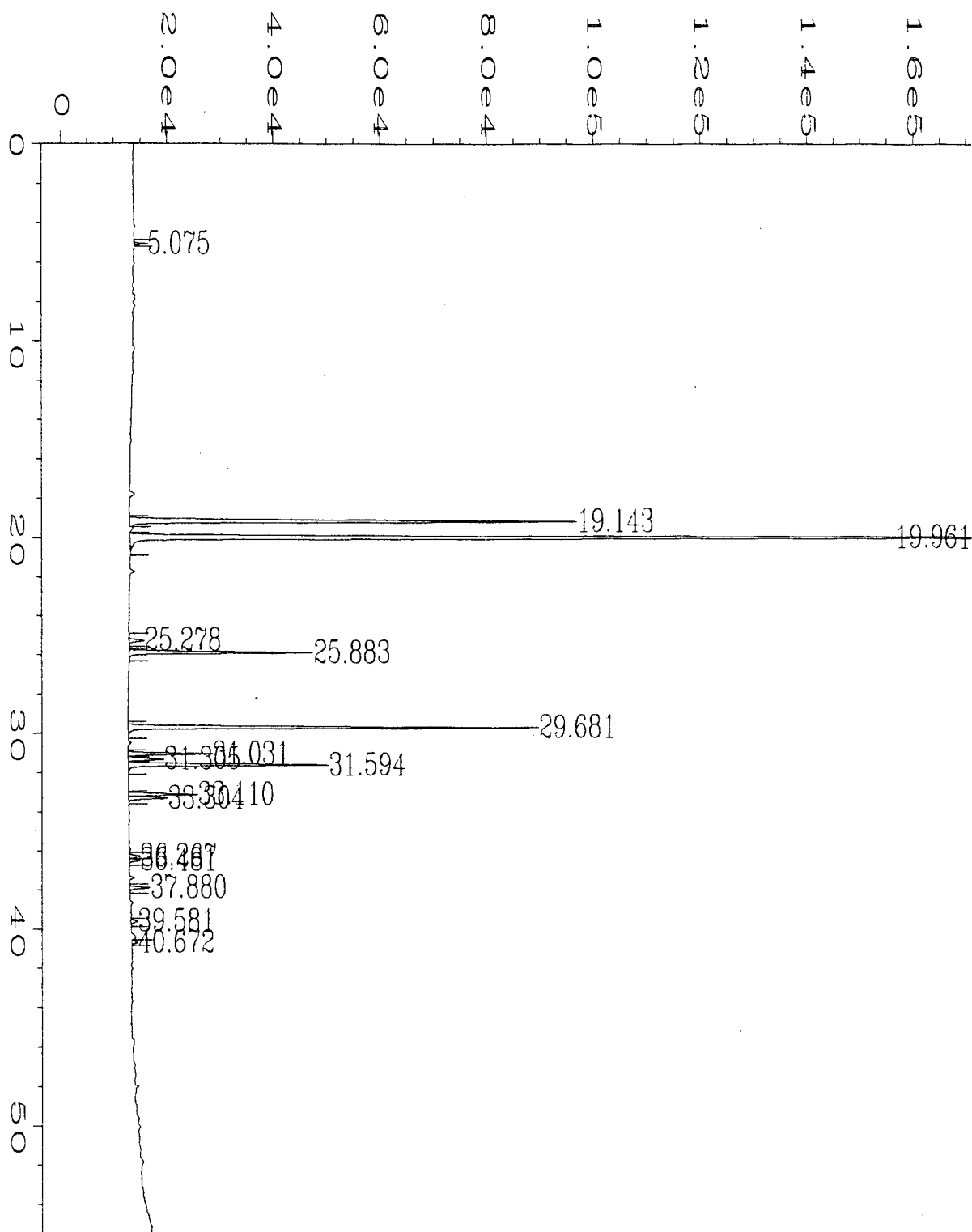
Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\022F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 22
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19462 DF200	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 02 Jun 94 09:27 PM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 08:51 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



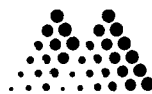
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Operator	: PWK	Vial Number	: 22
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19462 DF200	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 02 Jun 94 09:27 PM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 08:49 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\035F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 35
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19462 DF1000	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 03 Jun 94 10:24 PM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 08:51 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\035R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 35
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19462 DF1000	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 502VOL1.MTH
Acquired on	: 03 Jun 94 10:24 PM	Analysis Method	: 502VOL2.MTH
Report Created on:	: 08 Jun 94 08:49 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



Mountain States Analytical

The Quality Solution

Geowest Golden, Inc. Salt Lake Office
175 West 200 South
Suite # 2006
Salt Lake City, Ut 84101

Attn: Mr. Paul Weissenborn
Project: Maverik - Kirtland NM

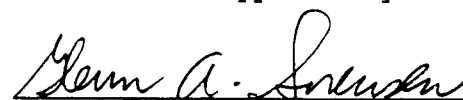
Sample ID: MW-17B
Matrix: Waste Water

MSAI Sample: 19463
MSAI Group: 4781
Date Reported: 06/09/94

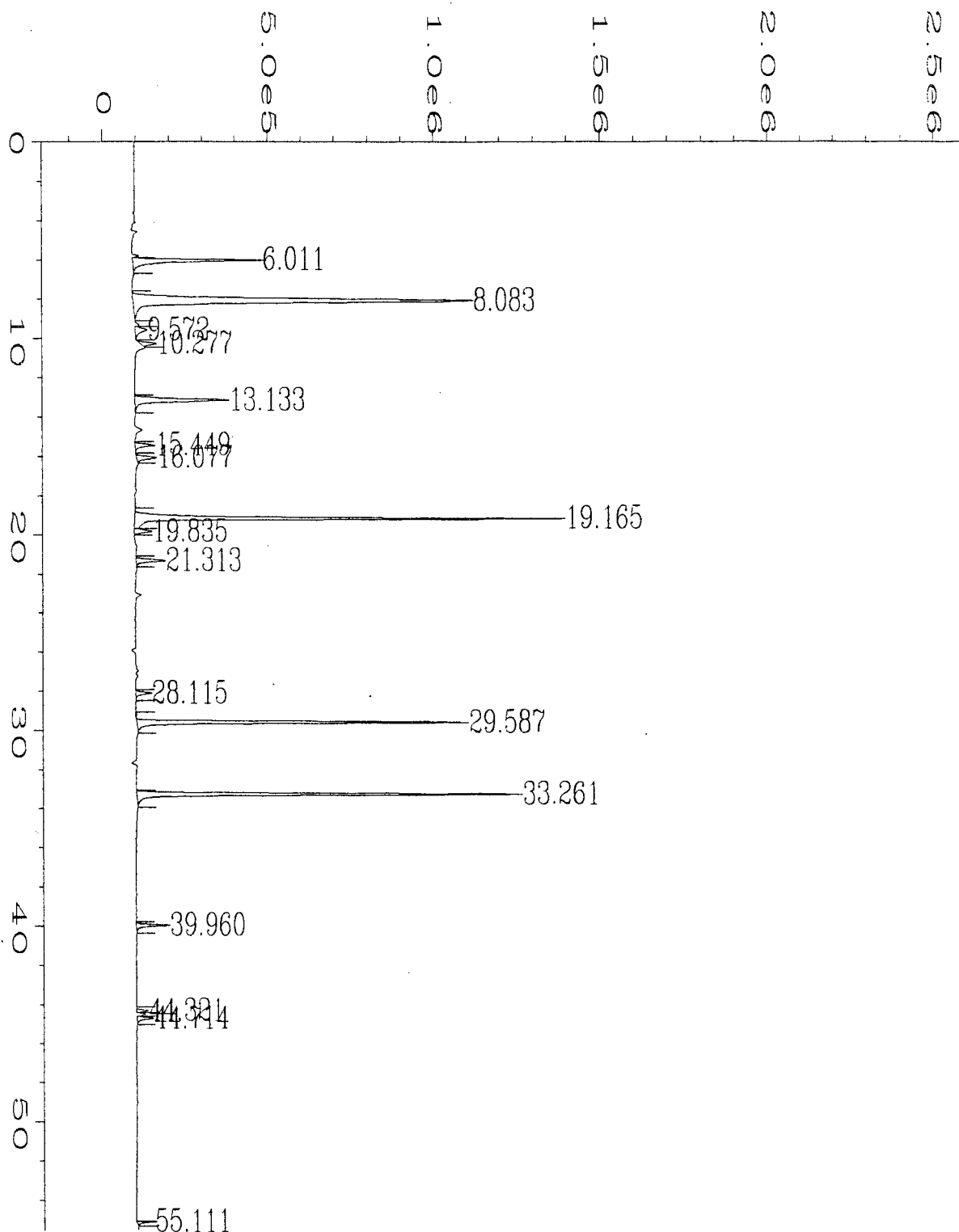
Discard Date: 07/09/94
Date Submitted: 05/27/94
Date Sampled: 05/25/94
Collected by: DA
Purchase Order: 9131.01
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation
5515	Purgeable Aromatics/Halocarbons Method: 600 SERIES 601/602			
	1,2-Dichloroethane	8.5	ug/l	1.0
	Benzene	10,300	ug/l	1,000
	Toluene	3,920	ug/l	200
	Ethylbenzene	800	ug/l	200
	m,p-Xylene	3,930	ug/l	200
	o-Xylene	1,490	ug/l	200
6159	Chromatograms/Etc. GC Method: IN HOUSE MSAI	See Attached		

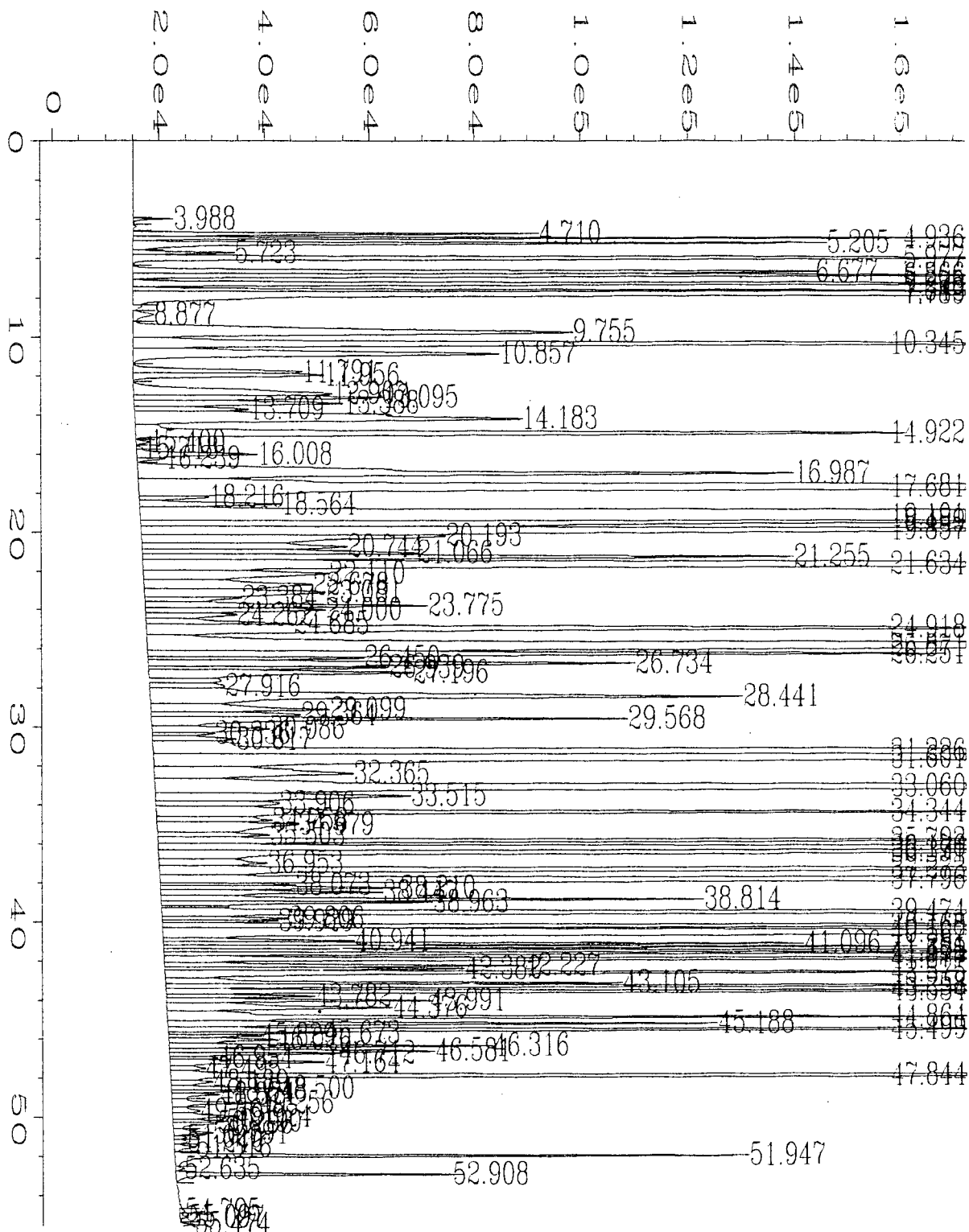
Respectfully Submitted,
Reviewed and Approved by:


Glenn A. Sorensen
Project Manager

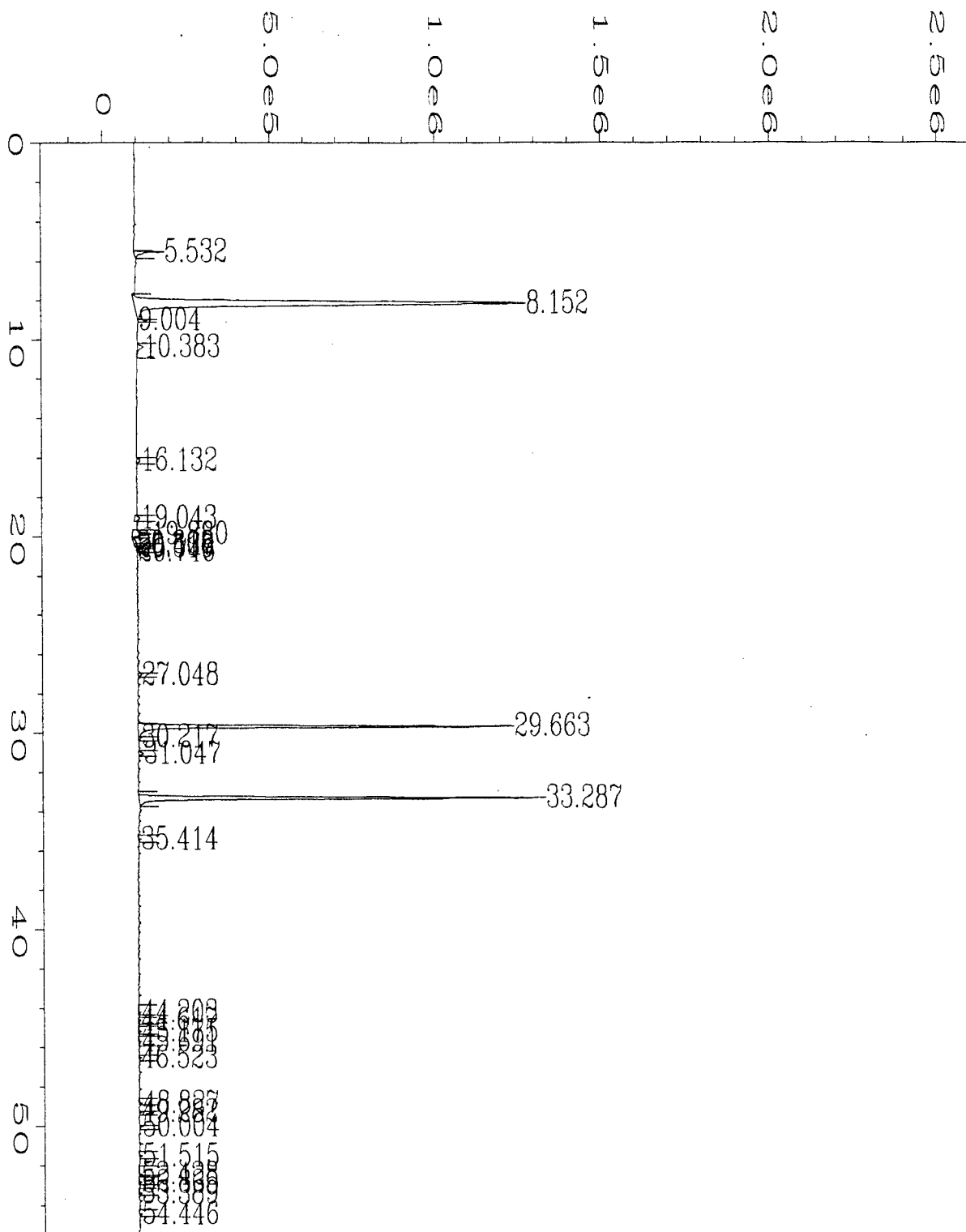




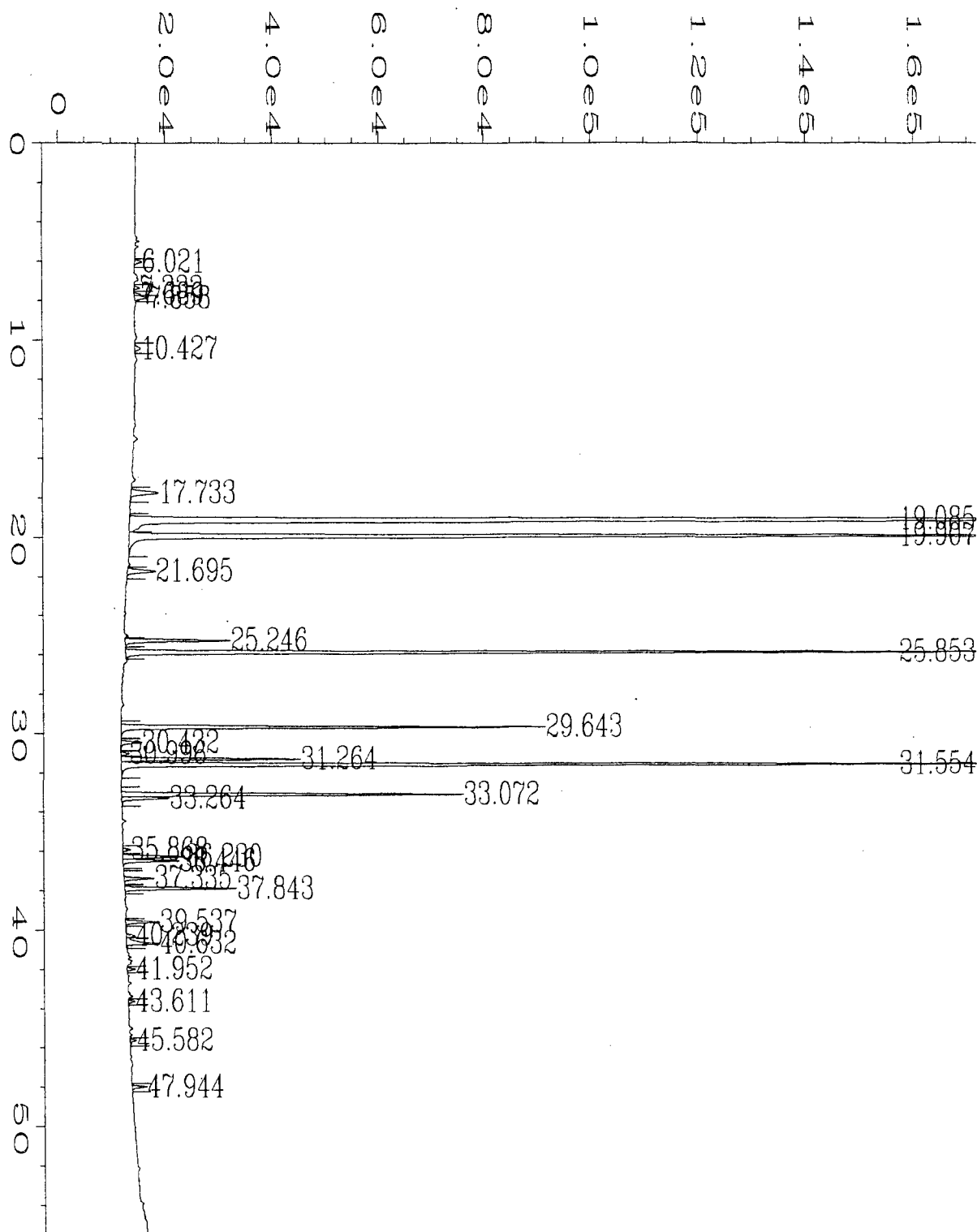
Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\088F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 88
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19463 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 12:03 PM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 08:58 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



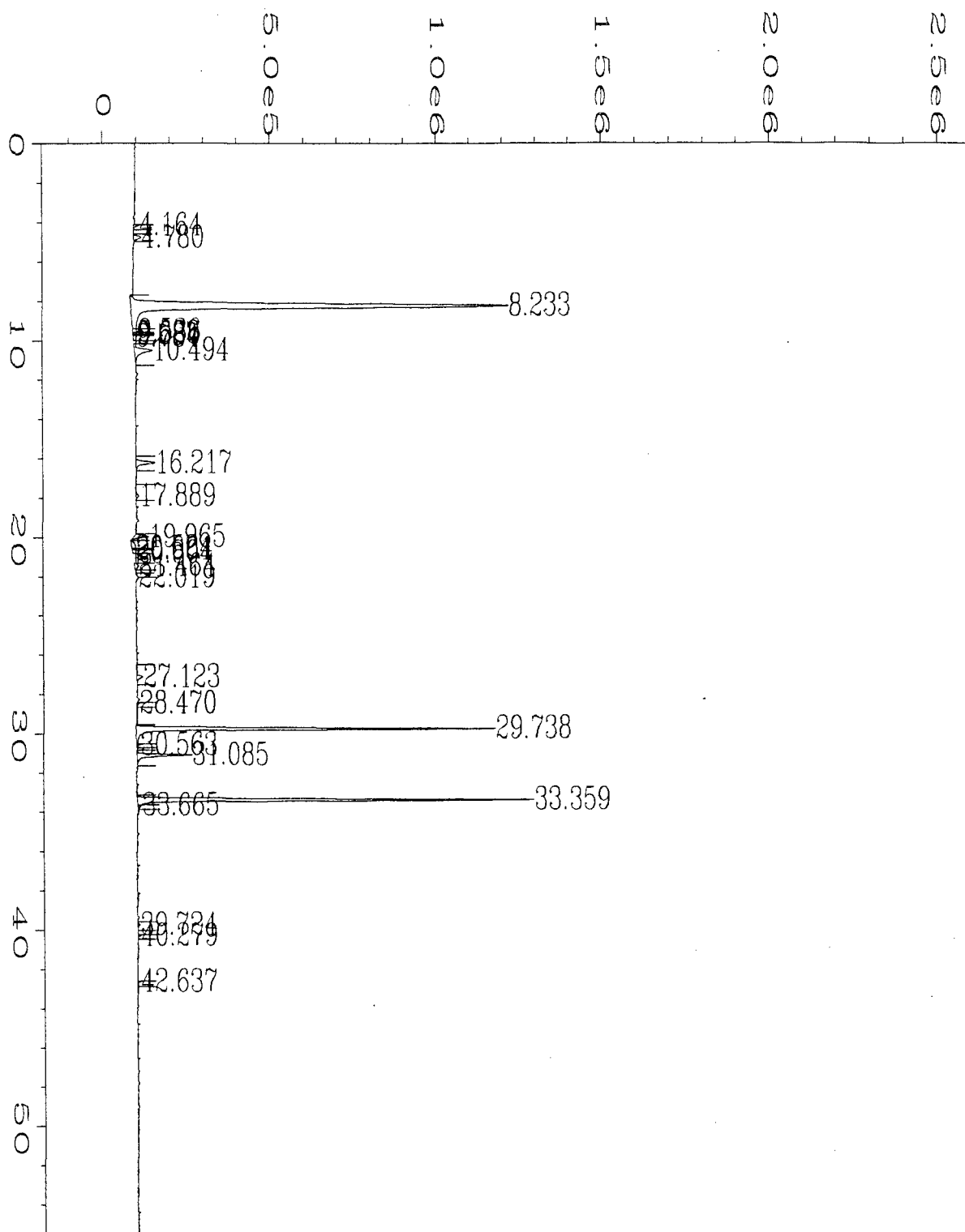
Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\088R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 88
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19463 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 12:03 PM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 07:12 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



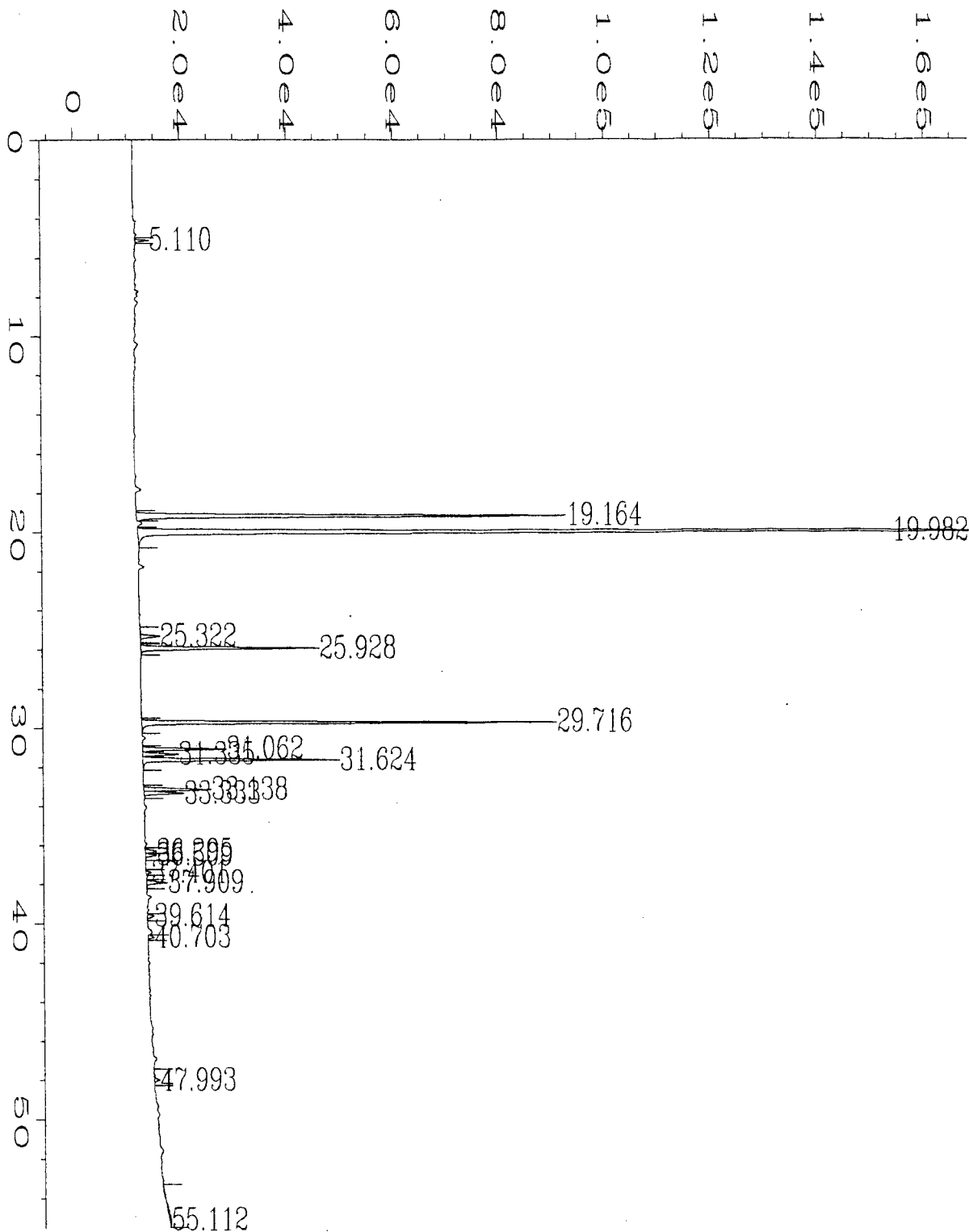
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Operator	: PWK	Vial Number	: 23
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19463 DF200	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 02 Jun 94 10:33 PM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 08:52 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



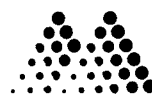
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Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19463 DF200	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 02 Jun 94 10:33 PM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 08:48 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\036F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 36
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19463 DF1000	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 04 Jun 94 09:11 AM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 08:52 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\036R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 36
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19463 DF1000	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 502VOL1.MTH
Acquired on	: 04 Jun 94 09:11 AM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 08:47 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



Mountain States Analytical

The Quality Solution

Geowest Golden, Inc. Salt Lake Office
175 West 200 South
Suite # 2006
Salt Lake City, Ut 84101

Attn: Mr. Paul Weissenborn
Project: Maverik - Kirtland NM

Sample ID: MW-18
Matrix: Waste Water

MSAI Sample: 19464
MSAI Group: 4781
Date Reported: 06/09/94

Discard Date: 07/09/94
Date Submitted: 05/27/94
Date Sampled: 05/25/94
Collected by: DA
Purchase Order: 9131.01
Project No.:

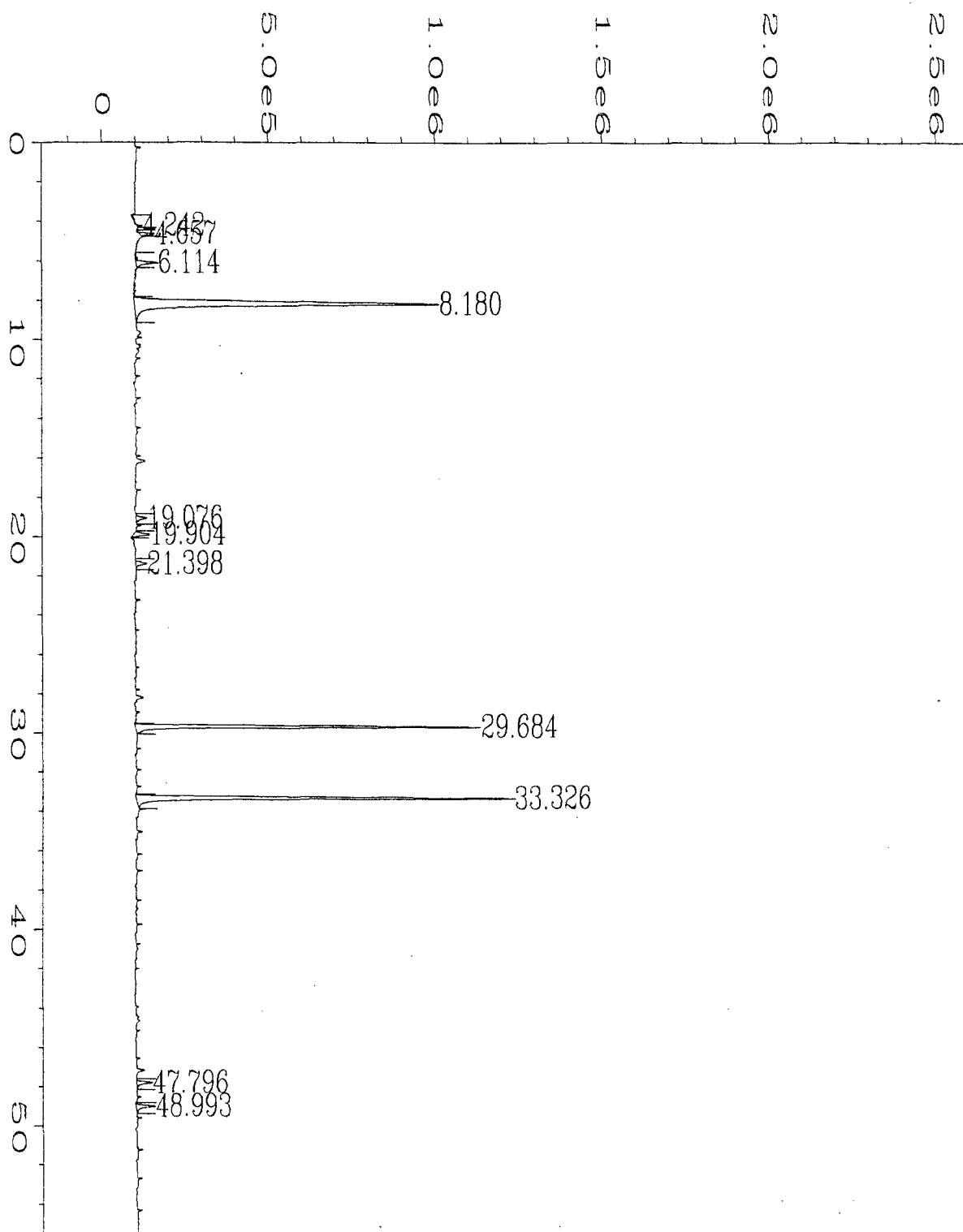
Test	Analysis	Results as Received	Units	Limit of Quantitation
5515	Purgeable Aromatics/Halocarbons Method: 600 SERIES 601/602			
	1,2-Dichloroethane	< 1.0	ug/l	(1) 1.0
	Benzene	50.6	ug/l	1.0
	Toluene	10.0	ug/l	1.0
	Ethylbenzene	6.9	ug/l	1.0
	m,p-Xylene	95.5	ug/l	1.0
	o-Xylene	3.7	ug/l	1.0
6159	Chromatograms/Etc. GC Method: IN HOUSE MSAI	See Attached		

- (1) Note: Benzene and m,p-Xylene are outside the calibration range. Due to restricted sample volume, reruns were not possible. Therefore, these results are approximate.

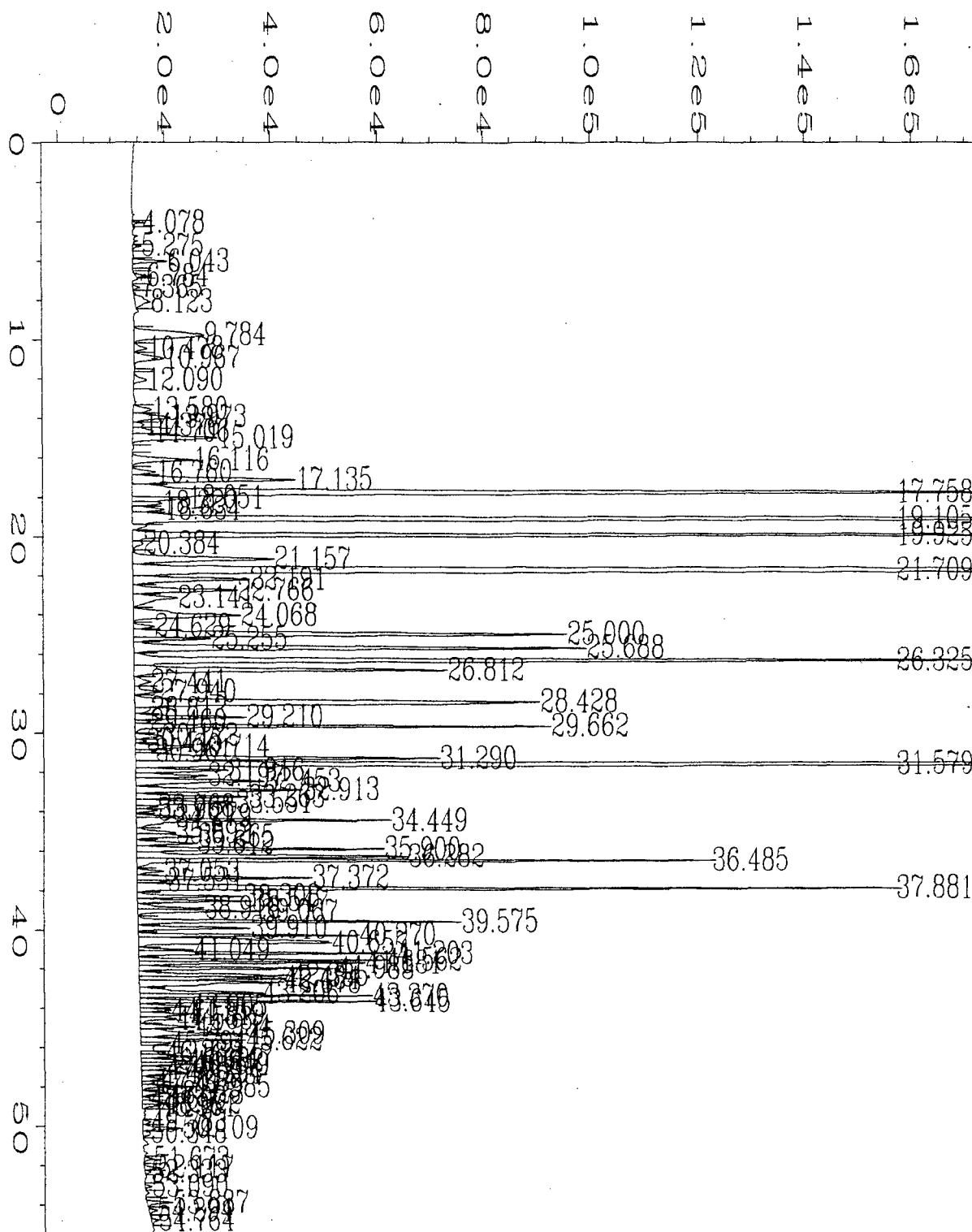
Respectfully Submitted,
Reviewed and Approved by:


Glenn A. Sorensen
Project Manager





Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\020F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 20
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19464 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 02 Jun 94 07:17 PM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 08:53 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\020R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 20
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19464 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 502VOL1.MTH
Acquired on	: 02 Jun 94 07:17 PM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 08:47 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



Mountain States Analytical

The Quality Solution

Geowest Golden, Inc. Salt Lake Office
175 West 200 South
Suite # 2006
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Attn: Mr. Paul Weissenborn
Project: Maverik - Kirtland NM

Sample ID: MW-19
Matrix: Waste Water

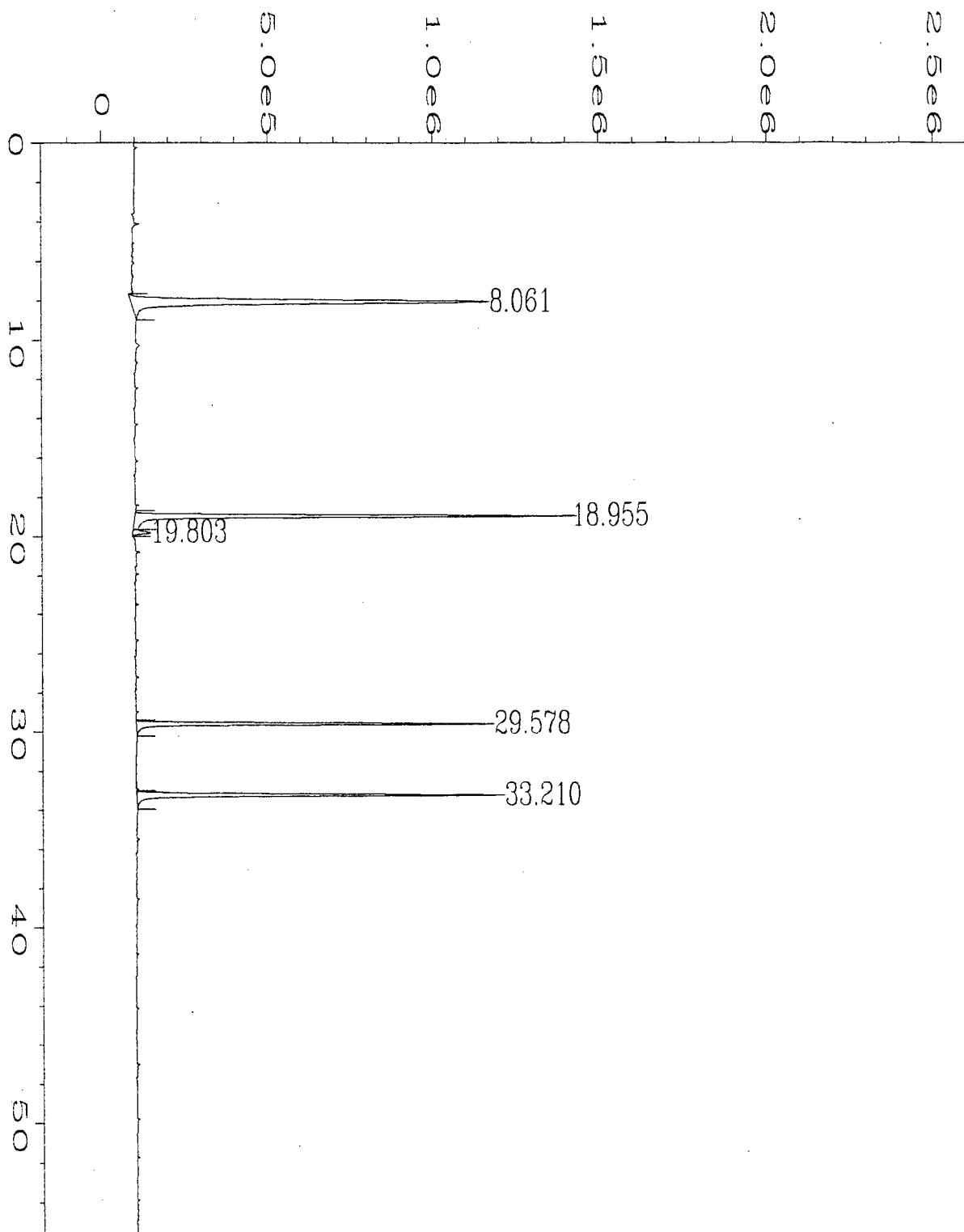
MSAI Sample: 19465
MSAI Group: 4781
Date Reported: 06/09/94
Discard Date: 07/09/94
Date Submitted: 05/27/94
Date Sampled: 05/25/94
Collected by: DA
Purchase Order: 9131.01
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation
5515	Purgeable Aromatics/Halocarbons Method: 600 SERIES 601/602			
	1,2-Dichloroethane	8.0	ug/l	1.0
	Benzene	< 1.0	ug/l	1.0
	Toluene	< 1.0	ug/l	1.0
	Ethylbenzene	< 1.0	ug/l	1.0
	m,p-Xylene	< 1.0	ug/l	1.0
	o-Xylene	< 1.0	ug/l	1.0
6159	Chromatograms/Etc. GC Method: IN HOUSE MSAI	See Attached		

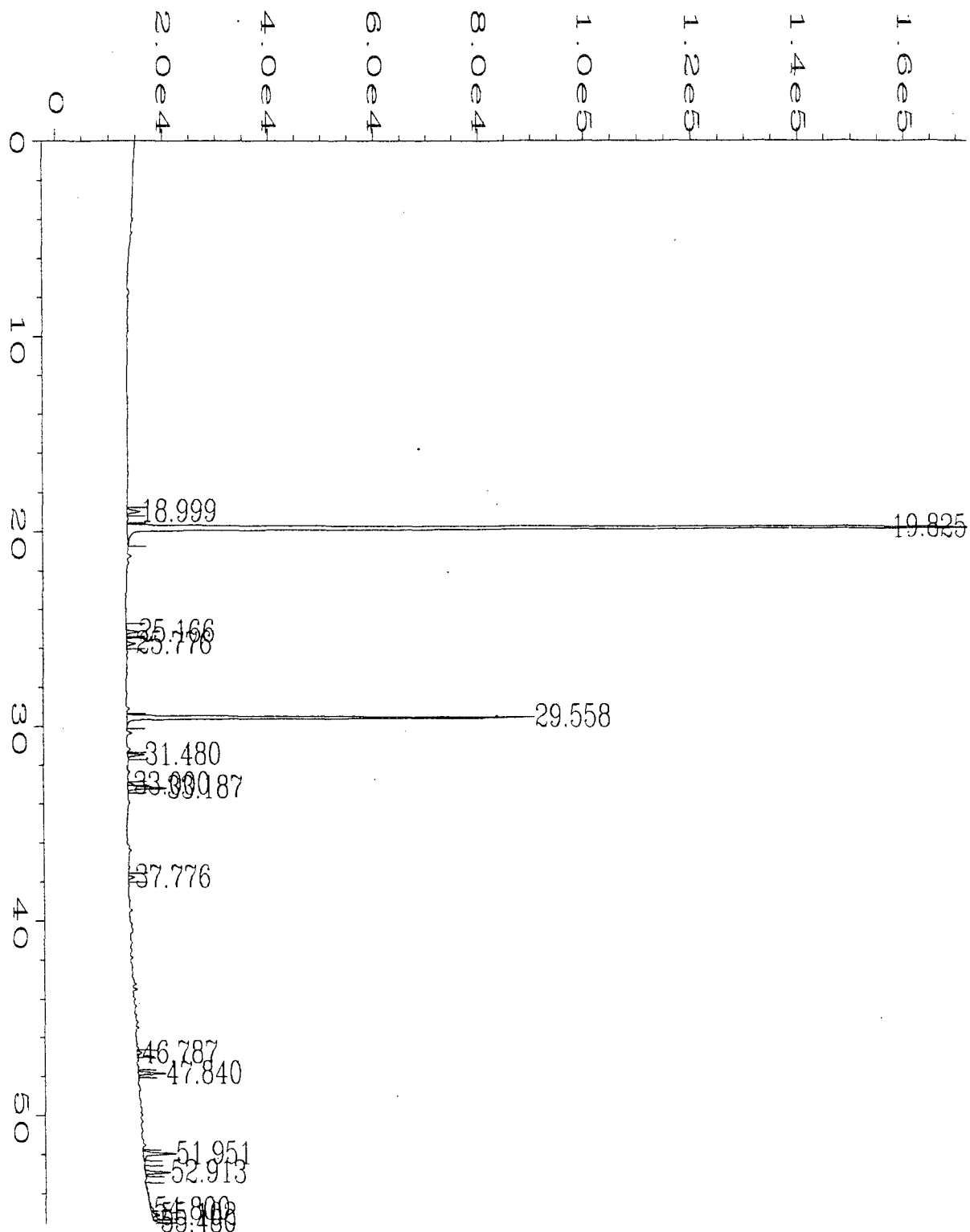
Respectfully Submitted,
Reviewed and Approved by:


Glenn A. Sorensen
Project Manager





Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\090F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 90
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19465 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 02:11 PM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 08:58 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\090R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 90
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19465 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 02:11 PM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 07:13 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



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Geowest Golden, Inc. Salt Lake Office
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Attn: Mr. Paul Weissenborn
Project: Maverik - Kirtland NM

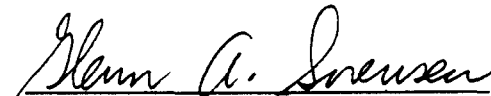
Sample ID: MW-20
Matrix: Waste Water

MSAI Sample: 19466
MSAI Group: 4781
Date Reported: 06/09/94

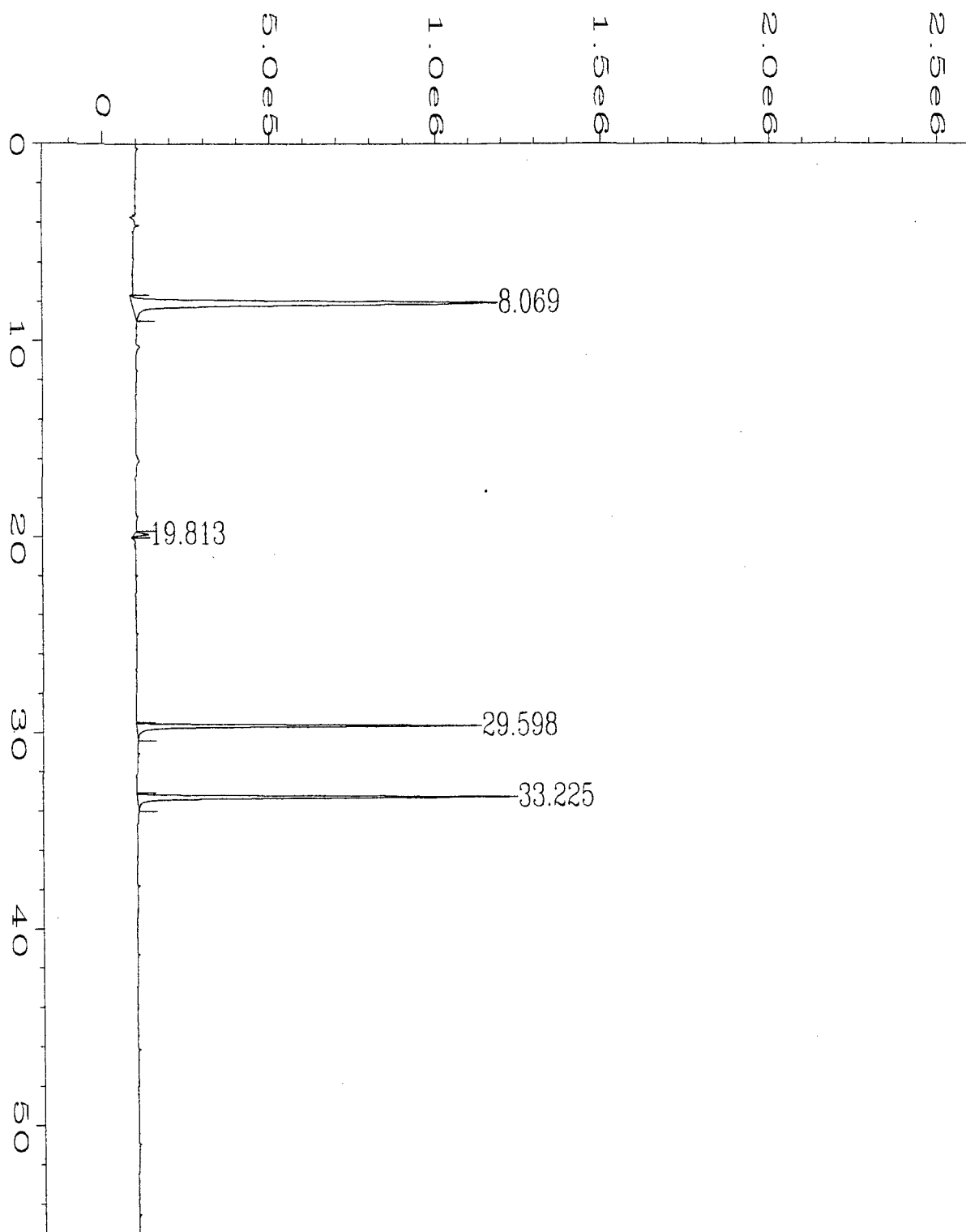
Discard Date: 07/09/94
Date Submitted: 05/27/94
Date Sampled: 05/25/94
Collected by: DA
Purchase Order: 9131.01
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation
5515	Purgeable Aromatics/Halocarbons Method: 600 SERIES 601/602			
	1,2-Dichloroethane	< 1.0	ug/l	1.0
	Benzene	< 1.0	ug/l	1.0
	Toluene	< 1.0	ug/l	1.0
	Ethylbenzene	< 1.0	ug/l	1.0
	m,p-Xylene	< 1.0	ug/l	1.0
	o-Xylene	< 1.0	ug/l	1.0
6159	Chromatograms/Etc. GC Method: IN HOUSE MSAI	See Attached		

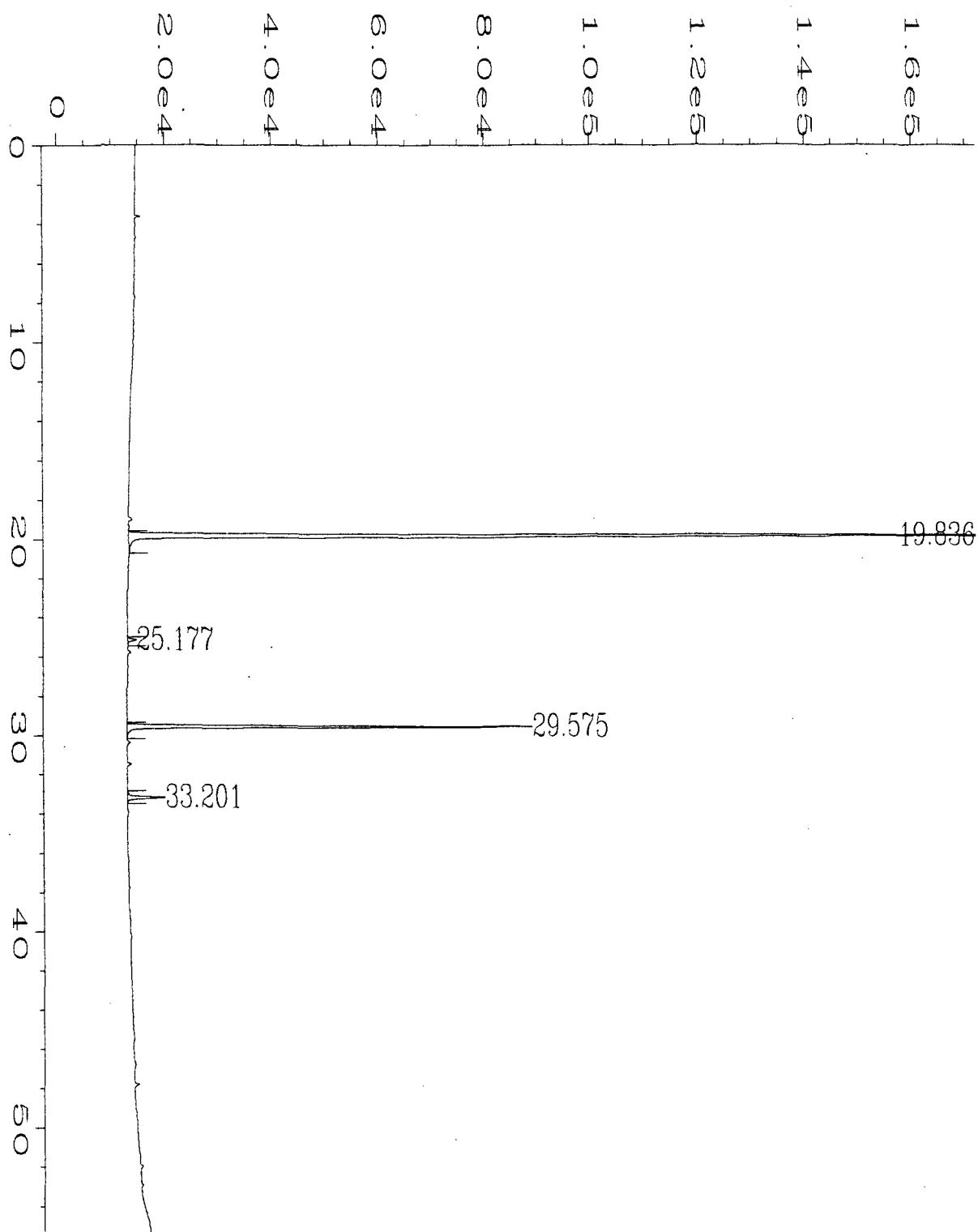
Respectfully Submitted,
Reviewed and Approved by:


Glenn A. Sorensen
Project Manager





Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\092F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 92
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19466 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 04:21 PM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 09:00 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\092R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 92
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19466 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 04:21 PM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 07:14 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



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175 West 200 South
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Attn: Mr. Paul Weissenborn
Project: Maverik - Kirtland NM

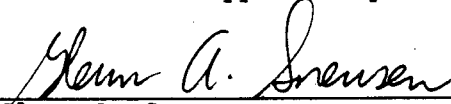
Sample ID: MW-21
Matrix: Waste Water

MSAI Sample: 19467
MSAI Group: 4781
Date Reported: 06/09/94

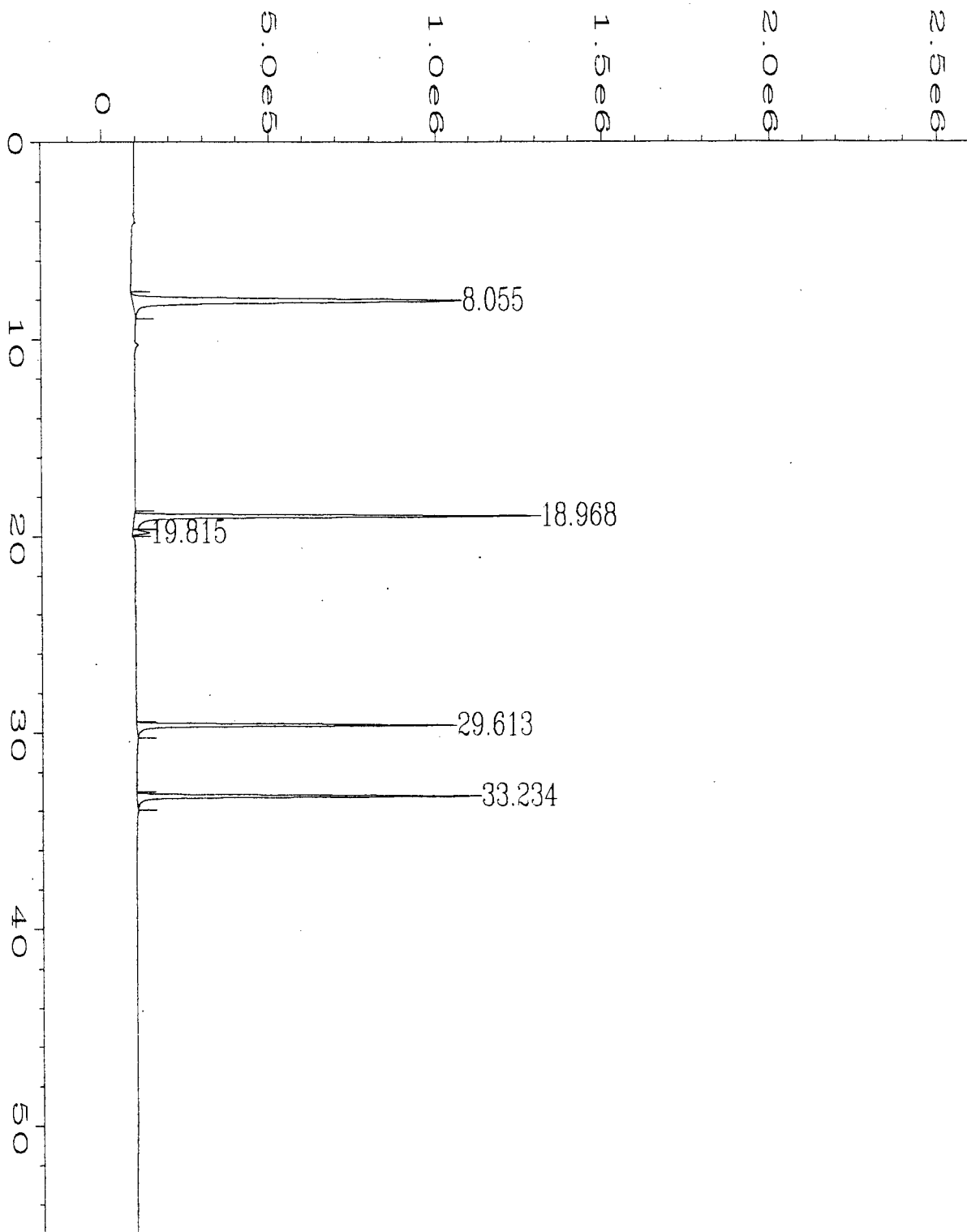
Discard Date: 07/09/94
Date Submitted: 05/27/94
Date Sampled: 05/25/94
Collected by: DA
Purchase Order: 9131.01
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation
5515	Purgeable Aromatics/Halocarbons Method: 600 SERIES 601/602			
	1,2-Dichloroethane	8.3	ug/l	1.0
	Benzene	< 1.0	ug/l	1.0
	Toluene	< 1.0	ug/l	1.0
	Ethylbenzene	< 1.0	ug/l	1.0
	m,p-Xylene	< 1.0	ug/l	1.0
	o-Xylene	< 1.0	ug/l	1.0
6159	Chromatograms/Etc. GC Method: IN HOUSE MSAI	See Attached		

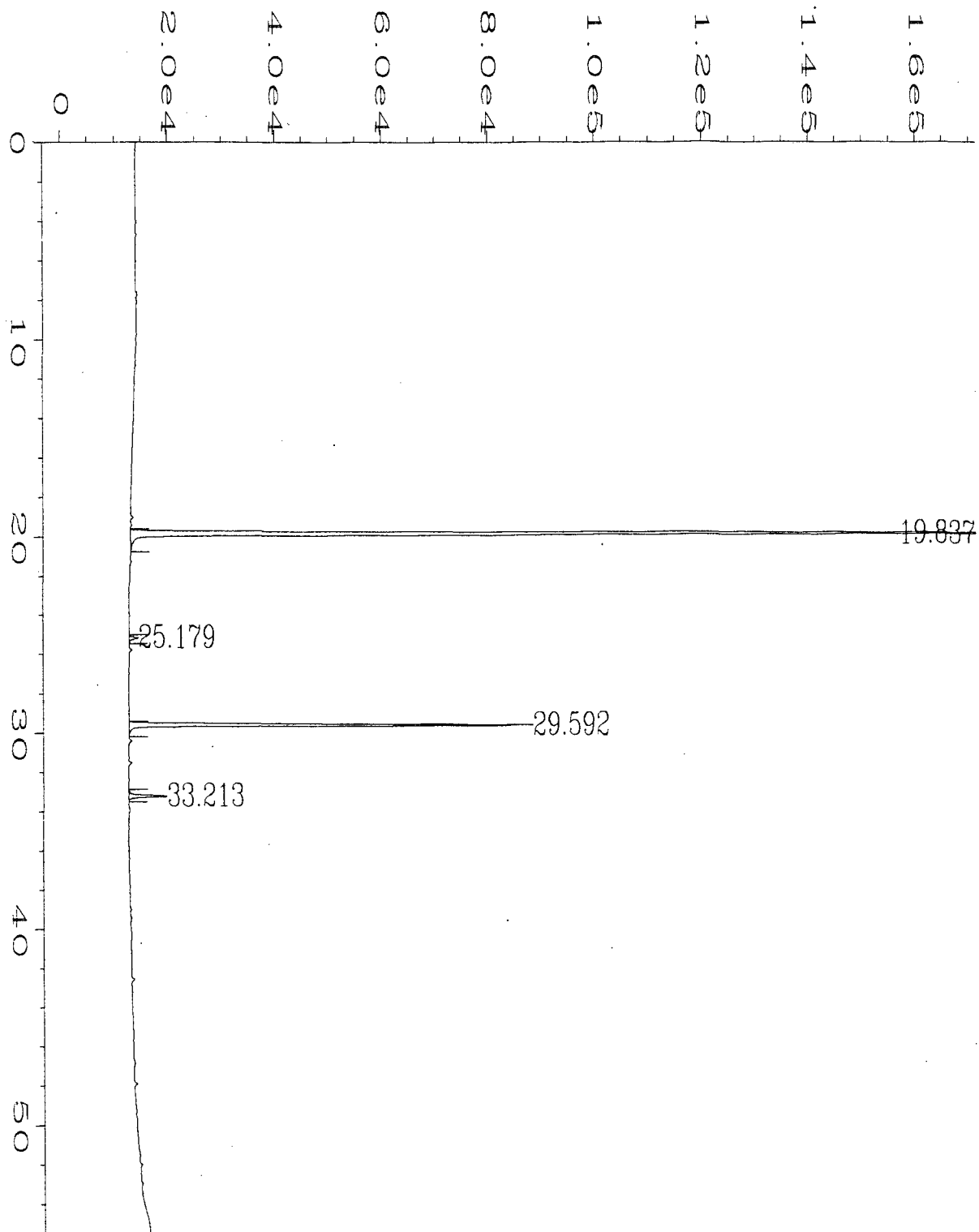
Respectfully Submitted,
Reviewed and Approved by:


Glenn A. Sorensen
Project Manager





Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\093F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 93
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19467 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 05:25 PM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 09:00 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\093R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 93
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19467 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 05:25 PM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 07:15 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



Mountain States Analytical

The Quality Solution

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175 West 200 South
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Salt Lake City, Ut 84101

Attn: Mr. Paul Weissenborn
Project: Maverik - Kirtland NM

Sample ID: MW-22
Matrix: Waste Water

MSAI Sample: 19468
MSAI Group: 4781
Date Reported: 06/09/94

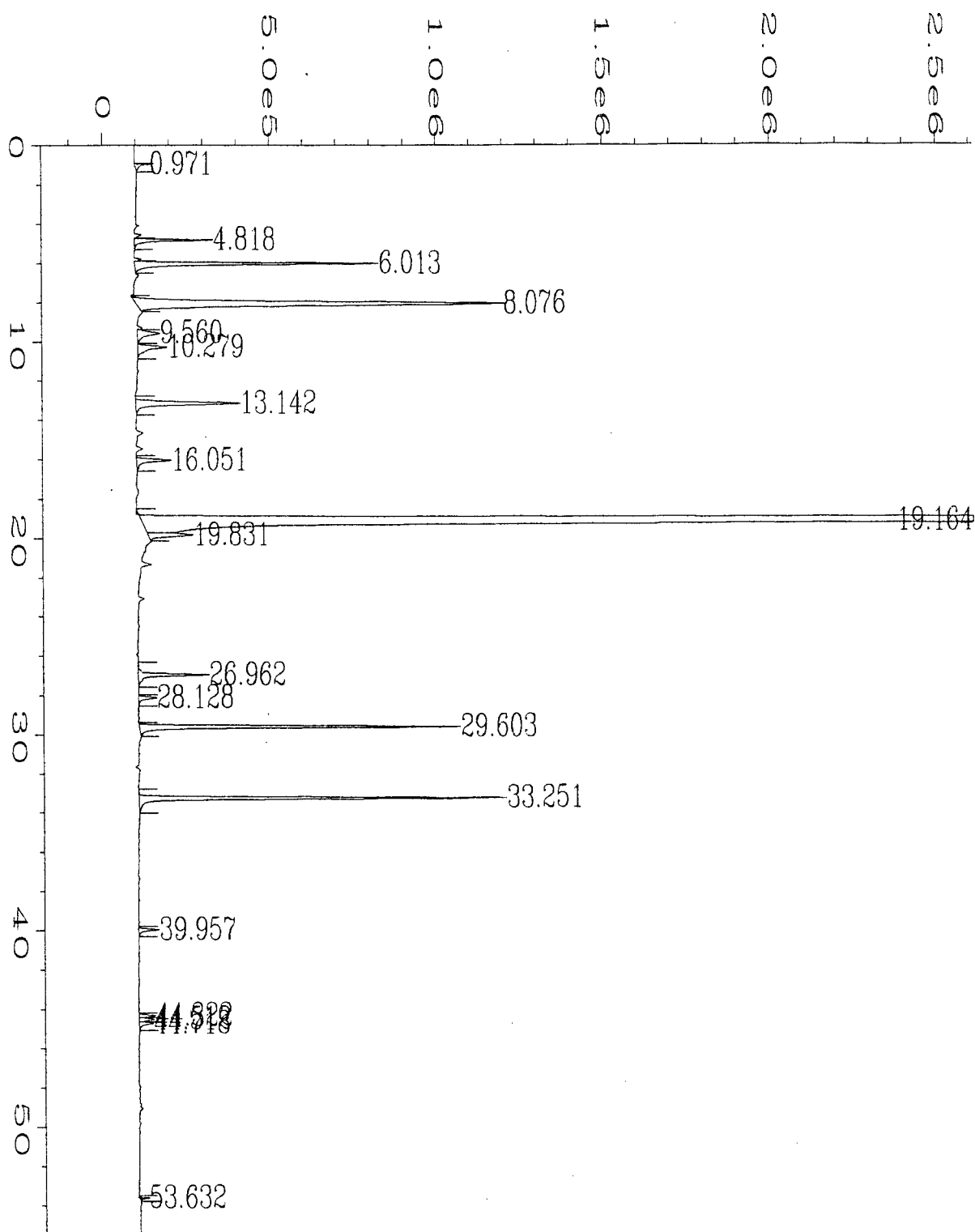
Discard Date: 07/09/94
Date Submitted: 05/27/94
Date Sampled: 05/25/94
Collected by: DA
Purchase Order: 9131.01
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation
5515	Purgeable Aromatics/Halocarbons Method: 600 SERIES 601/602			
	1,2-Dichloroethane	379	ug/l	200
	Benzene	9,340	ug/l	1,000
	Toluene	2,250	ug/l	200
	Ethylbenzene	845	ug/l	200
	m,p-Xylene	2,750	ug/l	200
	o-Xylene	975	ug/l	200
6159	Chromatograms/Etc. GC Method: IN HOUSE MSAI	See Attached		

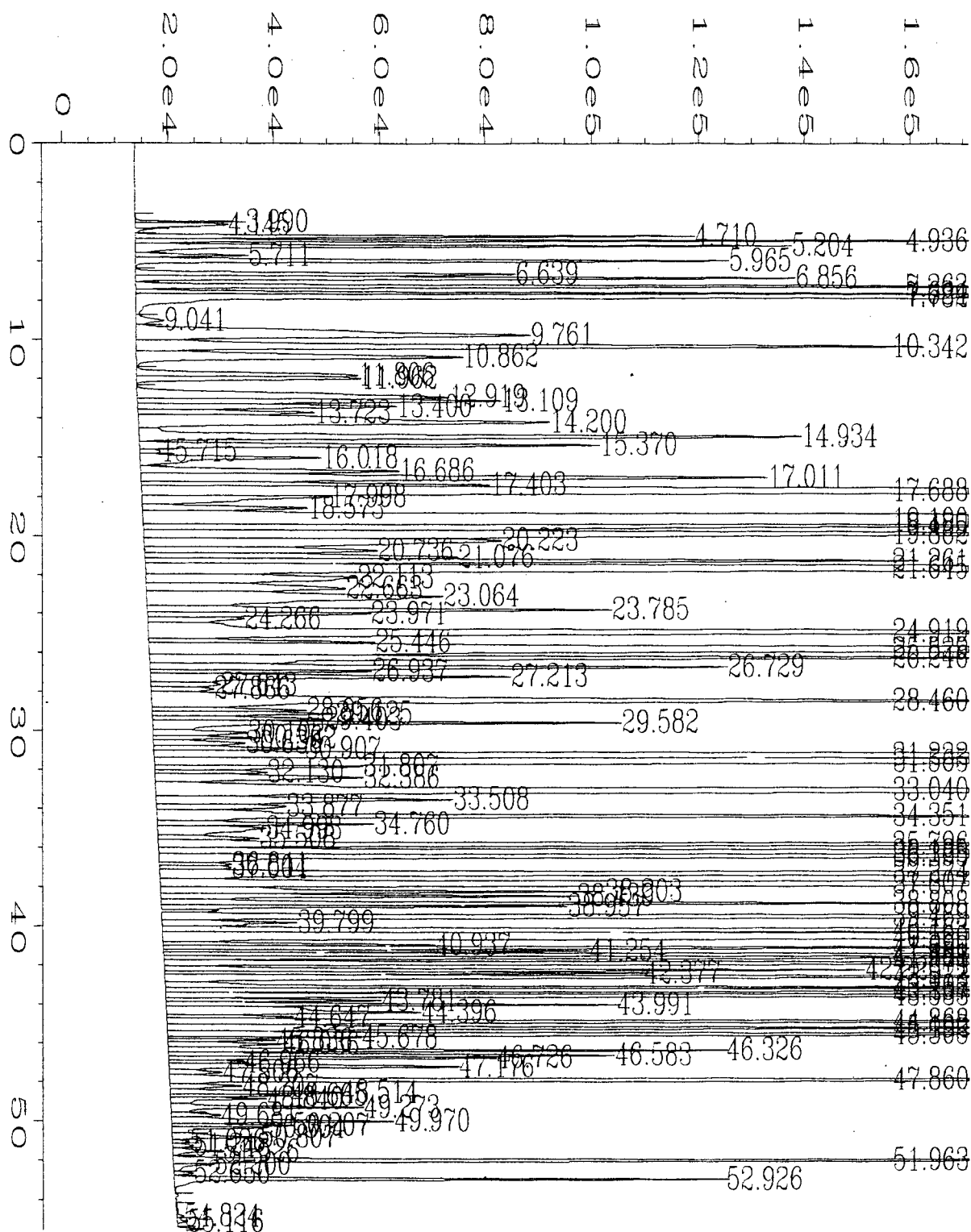
Respectfully Submitted,
Reviewed and Approved by:

Glenn A. Sorensen
Project Manager

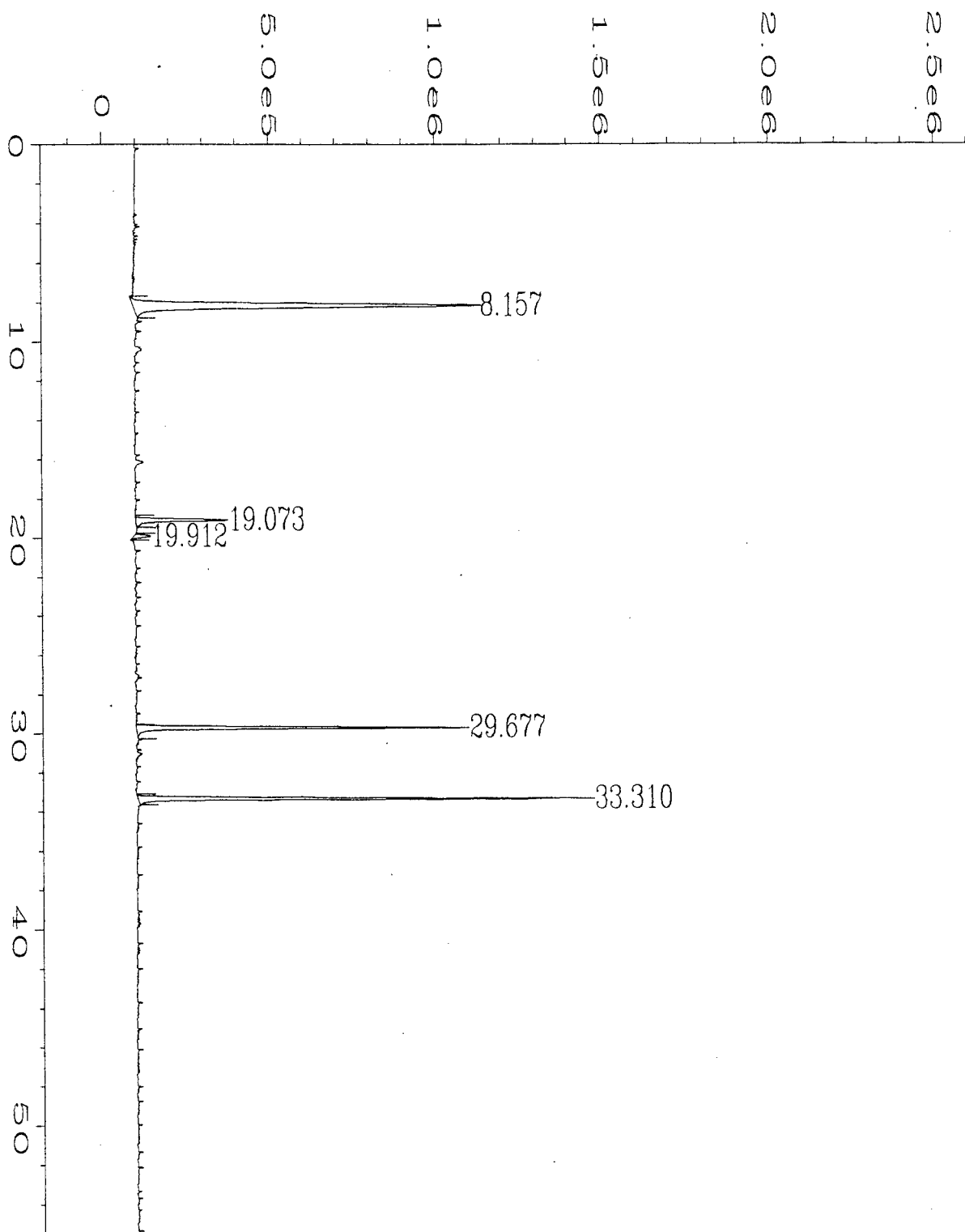




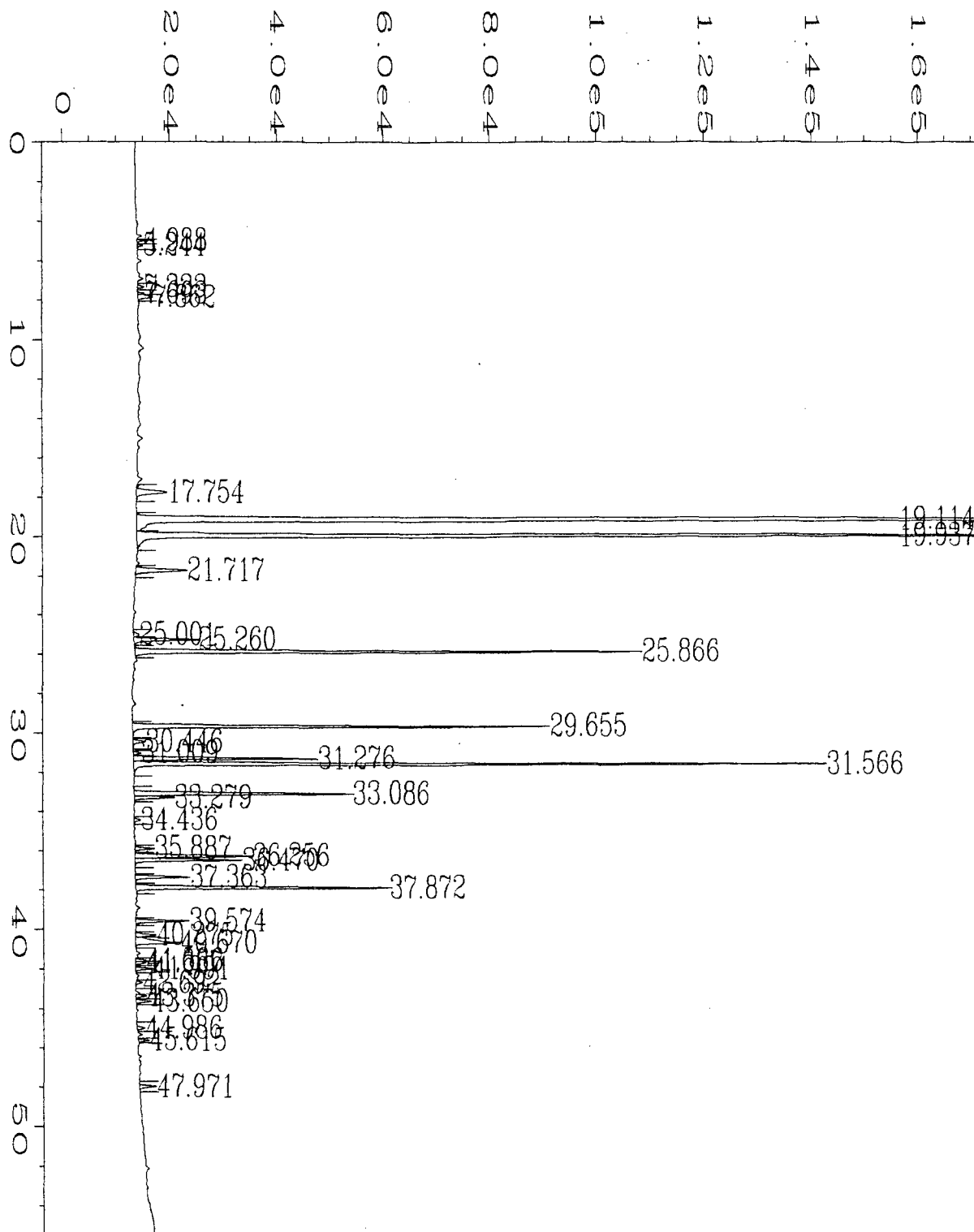
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Operator	: PWK	Vial Number	: 94
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19468 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 502VOL1.MTH
Acquired on	: 01 Jun 94 06:29 PM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 09:01 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



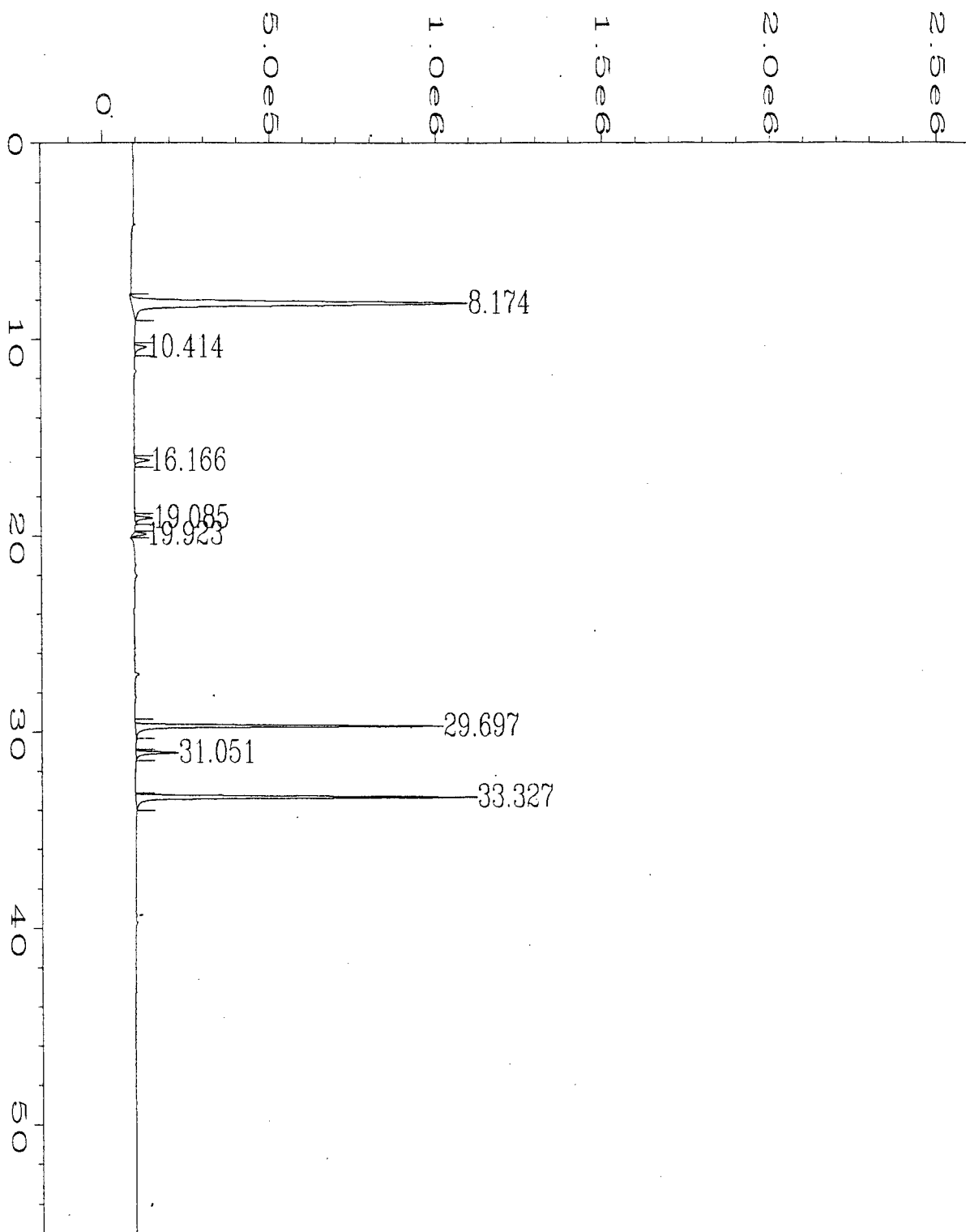
Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\094R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 94
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19468 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 502VOL1.MTH
Acquired on	: 01 Jun 94 06:29 PM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 07:16 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



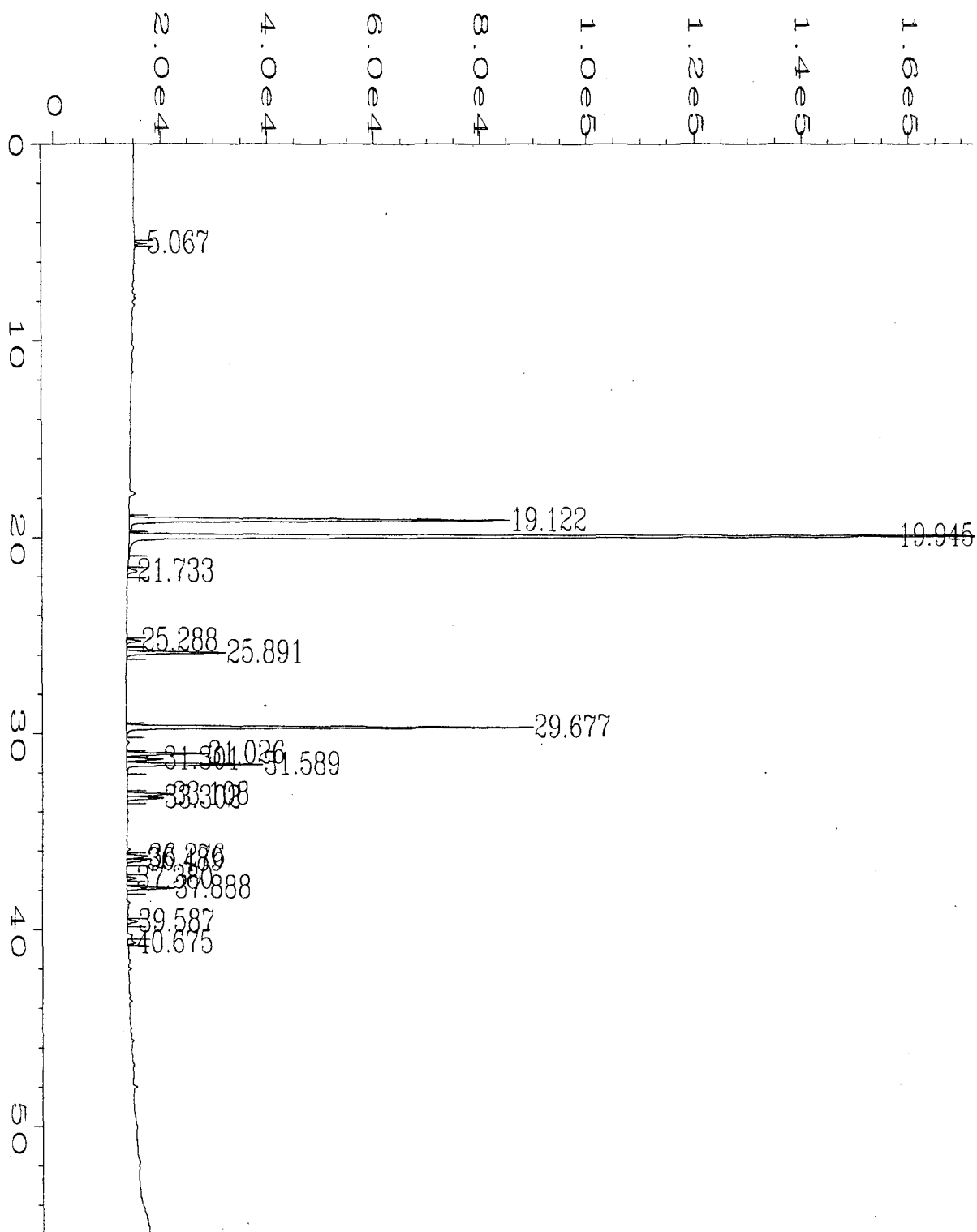
Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\024F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 24
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19468 DF200	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 502VOL1.MTH
Acquired on	: 02 Jun 94 11:37 PM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 08:54 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\024R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 24
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19468 DF200	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 02 Jun 94 11:37 PM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 08:46 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\037F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 37
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19468 DF1000	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 502VOL1.MTH
Acquired on	: 04 Jun 94 10:15 AM	Analysis Method	: 502VOL1.MTH
Report Created on:	: 08 Jun 94 08:55 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\037R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 37
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19468 DF1000	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 502VOL1.MTH
Acquired on	: 04 Jun 94 10:15 AM	Analysis Method	: 502VOL2.MTH
Report Created on:	: 08 Jun 94 08:46 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



Mountain States Analytical

The Quality Solution

Geowest Golden, Inc. Salt Lake Office
175 West 200 South
Suite # 2006
Salt Lake City, Ut 84101

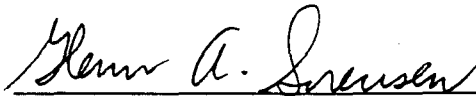
Attn: Mr. Paul Weissenborn
Project: Maverik - Kirtland NM

Sample ID: MW-25 ^{blind} (duplicate of MW-21)
Matrix: Waste Water

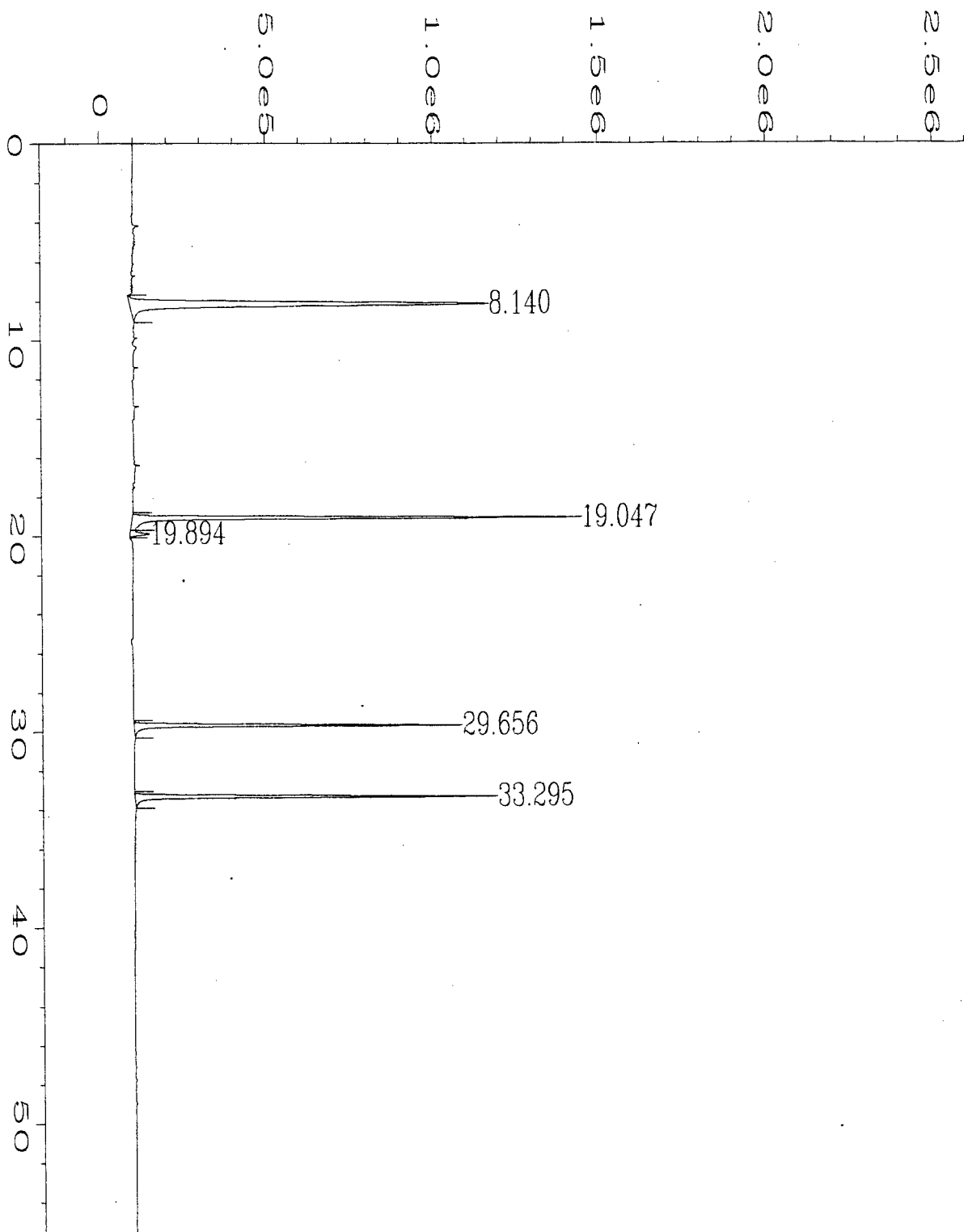
MSAI Sample: 19469
MSAI Group: 4781
Date Reported: 06/09/94
Discard Date: 07/09/94
Date Submitted: 05/27/94
Date Sampled: 05/25/94
Collected by: DA
Purchase Order: 9131.01
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation
5515	Purgeable Aromatics/Halocarbons Method: 600 SERIES 601/602			
	1,2-Dichloroethane	9.3	ug/l	1.0
	Benzene	< 1.0	ug/l	1.0
	Toluene	< 1.0	ug/l	1.0
	Ethylbenzene	< 1.0	ug/l	1.0
	m,p-Xylene	< 1.0	ug/l	1.0
	o-Xylene	< 1.0	ug/l	1.0
6159	Chromatograms/Etc. GC Method: IN HOUSE MSAI	See Attached		

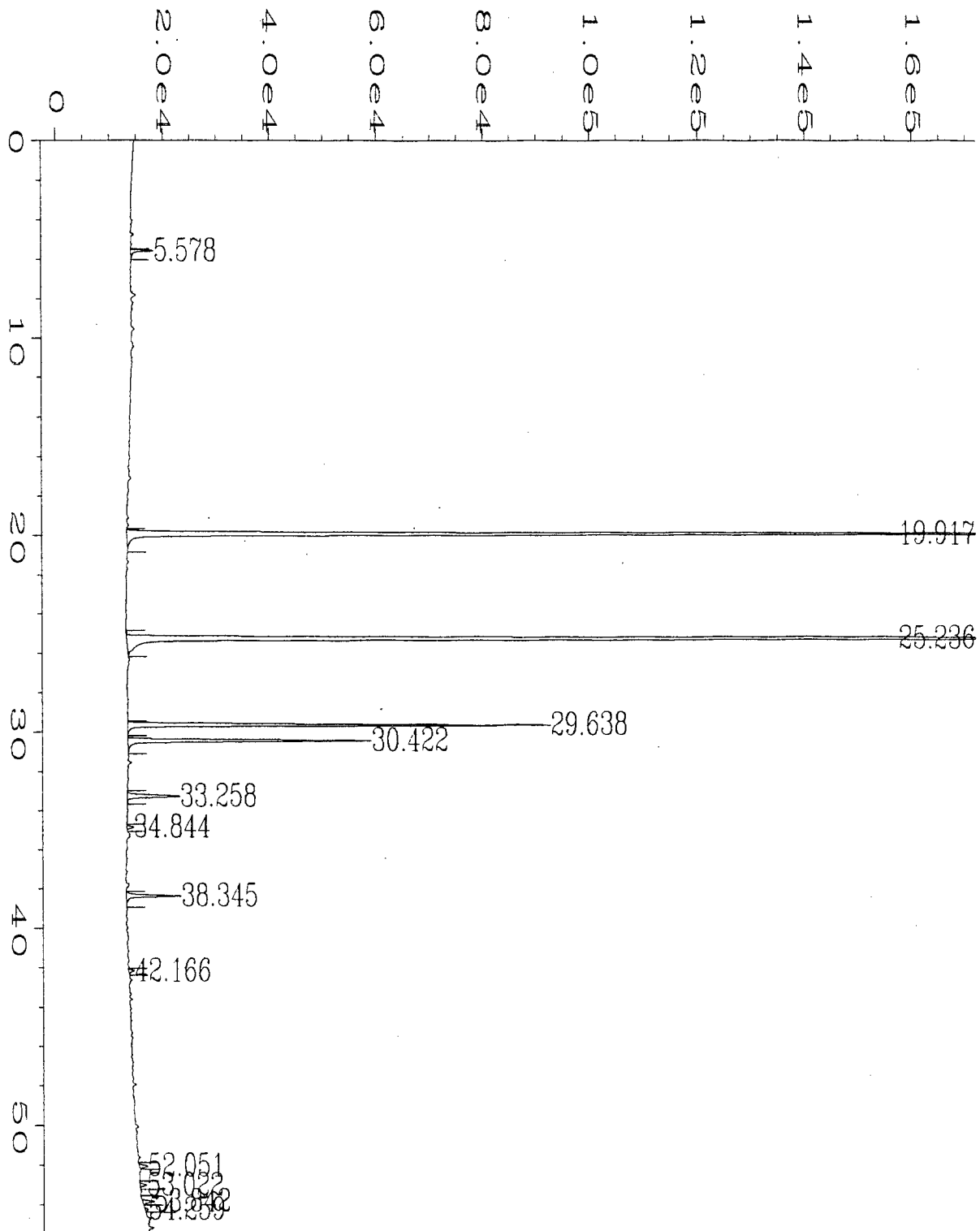
Respectfully Submitted,
Reviewed and Approved by:


Glenn A. Sorensen
Project Manager





Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\021F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 21
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19469 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 502VOL1.MTH
Acquired on	: 02 Jun 94 08:23 PM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 08:56 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\01JUNVOL\021R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 21
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19469 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 02 Jun 94 08:23 PM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 08:45 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



Mountain States Analytical

The Quality Solution

Geowest Golden, Inc. Salt Lake Office
175 West 200 South
Suite # 2006
Salt Lake City, Ut 84101

Attn: Mr. Paul Weissenborn
Project: Maverik - Kirtland NM

Sample ID: Equipment Blank
Matrix: Waste Water

MSAI Sample: 19478
MSAI Group: 4781
Date Reported: 06/09/94

Discard Date: 07/09/94
Date Submitted: 05/27/94
Date Sampled: 05/25/94
Collected by: DA
Purchase Order: 9131.01
Project No.:

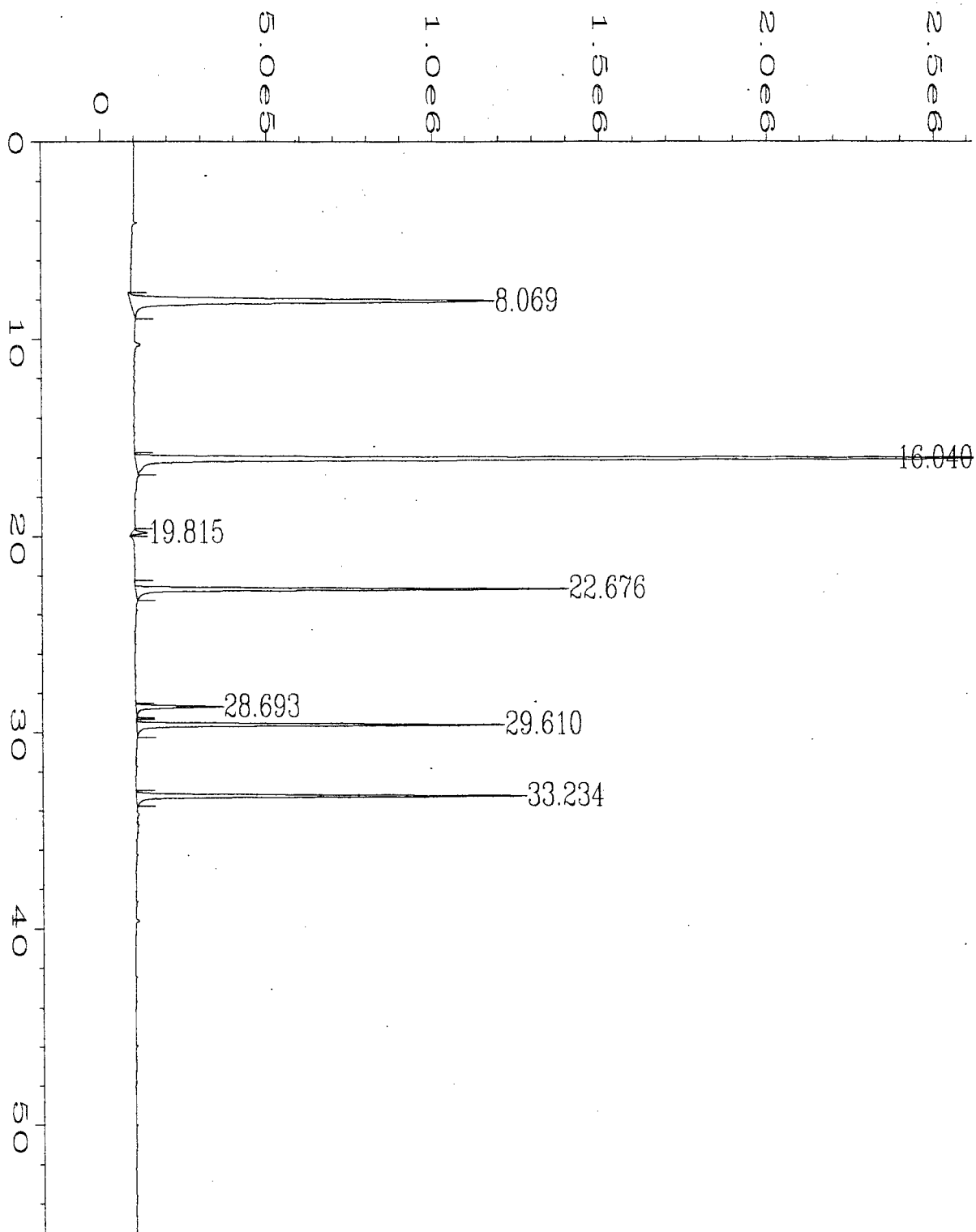
Test	Analysis	Results as Received	Units	Limit of Quantitation
-----	-----	-----	-----	-----
5515	Purgeable Aromatics/Halocarbons Method: 600 SERIES 601/602			
	1,2-Dichloroethane	< 1.0	ug/l	1.0
	Benzene	< 1.0	ug/l	1.0
	Toluene	< 1.0	ug/l	1.0
	Ethylbenzene	< 1.0	ug/l	1.0
	m,p-Xylene	< 1.0	ug/l	1.0
	o-Xylene	< 1.0	ug/l	1.0
6159	Chromatograms/Etc. GC Method: IN HOUSE MSAI	See Attached		

Respectfully Submitted,
Reviewed and Approved by:

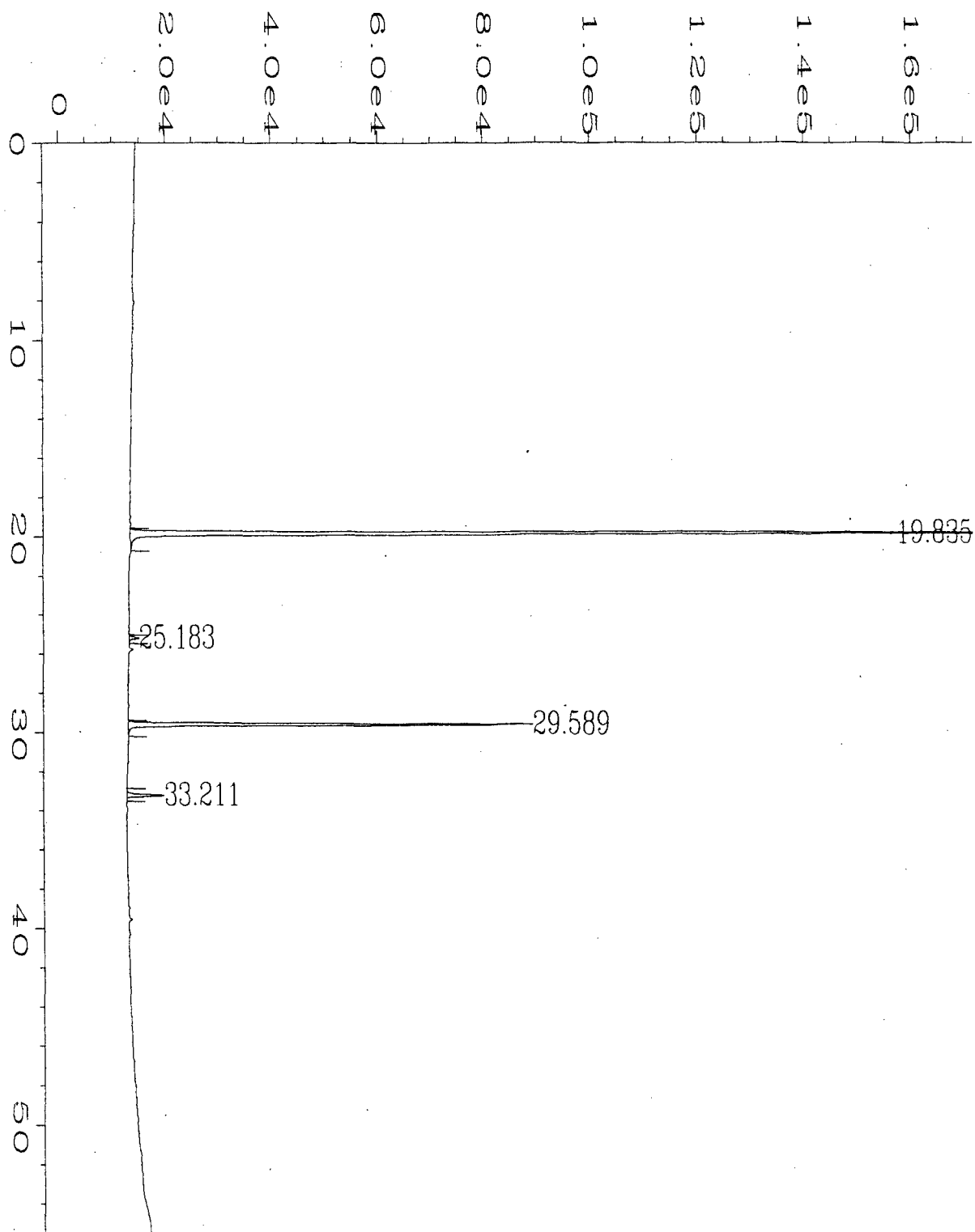


Glenn A. Sorensen
Project Manager





Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\082F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 82
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19478 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 05:39 AM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 09:01 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\082R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 82
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19478 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 05:39 AM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 07:17 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



Mountain States Analytical

The Quality Solution

Geowest Golden, Inc. Salt Lake Office
175 West 200 South
Suite # 2006
Salt Lake City, Ut 84101

Attn: Mr. Paul Weissenborn
Project: Maverik - Kirtland NM

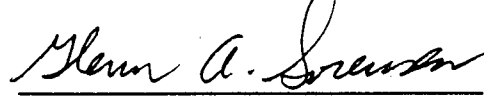
Sample ID: PZ-2
Matrix: Waste Water

MSAI Sample: 19480
MSAI Group: 4783
Date Reported: 06/09/94

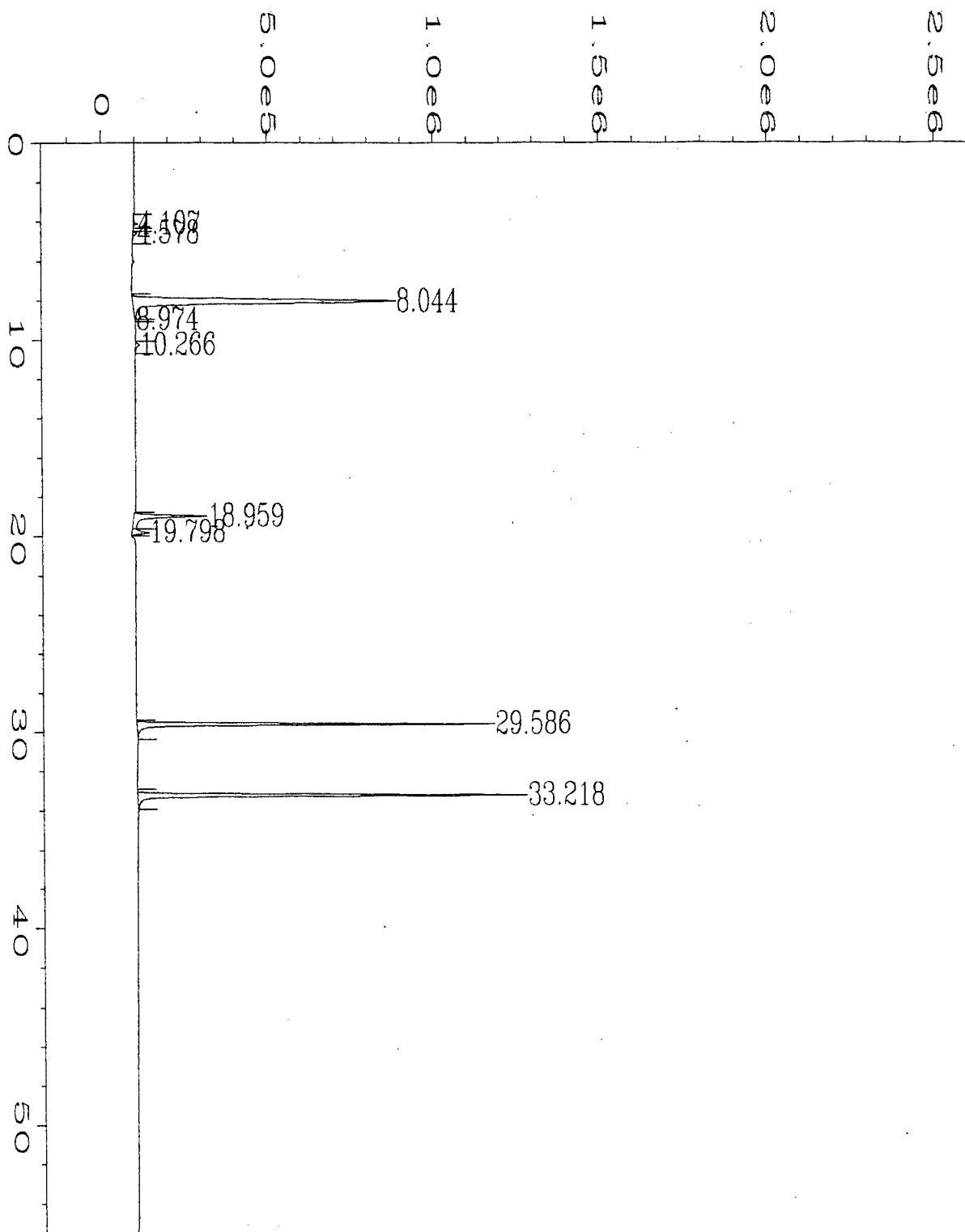
Discard Date: 07/09/94
Date Submitted: 05/27/94
Date Sampled: 05/25/94
Collected by: DA
Purchase Order: 9131.01
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation
----	-----	-----	-----	-----
5515	Purgeable Aromatics/Halocarbons Method: 600 SERIES 601/602			
	1,2-Dichloroethane	1.3	ug/l	1.0
	Benzene	< 1.0	ug/l	1.0
	Toluene	< 1.0	ug/l	1.0
	Ethylbenzene	< 1.0	ug/l	1.0
	m,p-Xylene	< 1.0	ug/l	1.0
	o-Xylene	< 1.0	ug/l	1.0
6159	Chromatograms/Etc. GC Method: IN HOUSE MSAI	See Attached		

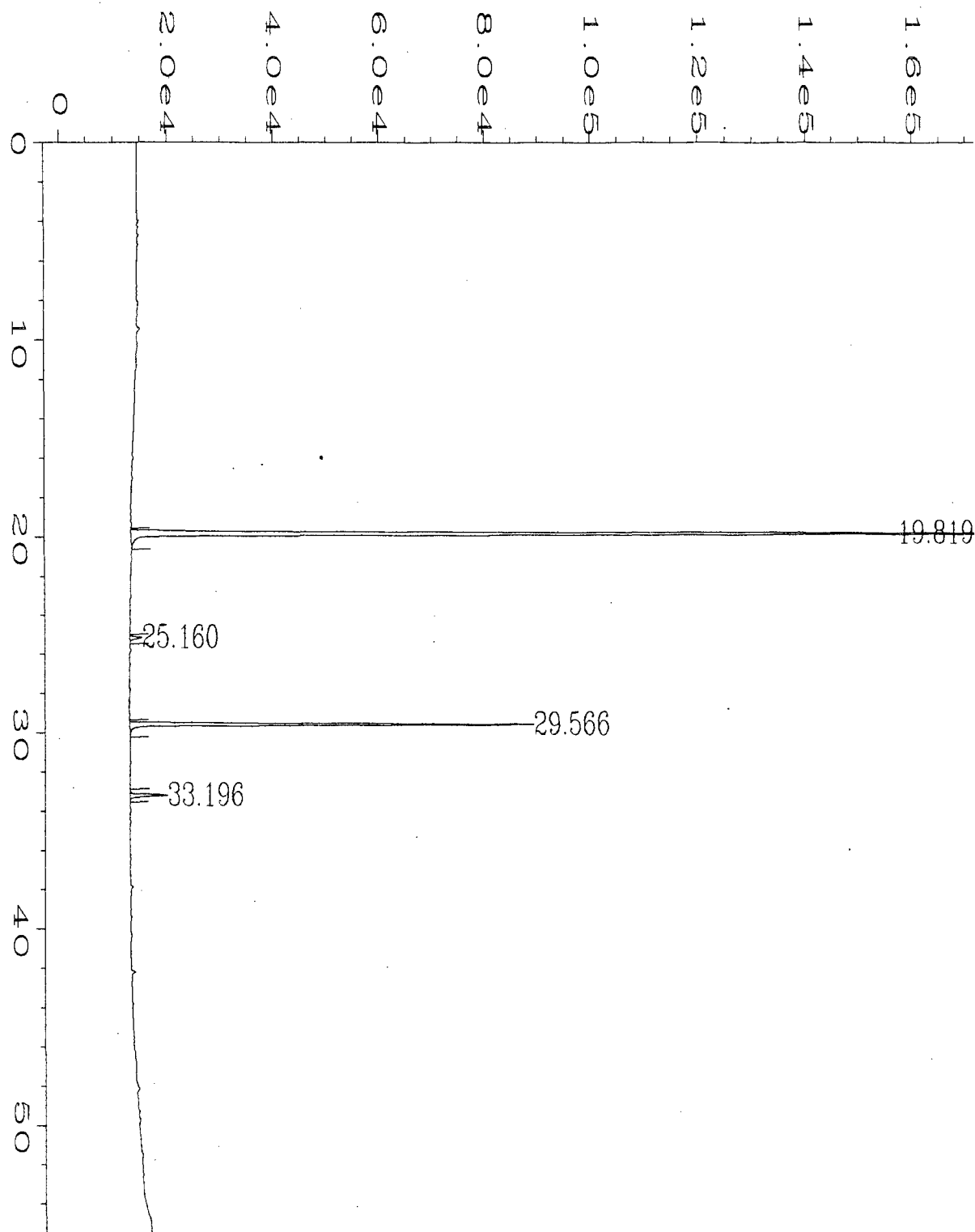
Respectfully Submitted,
Reviewed and Approved by:


Glenn A. Sorensen
Project Manager

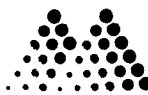




Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\080F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 80
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19480 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 03:29 AM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 07:07 PM	Sample Amount	: 0
Last Recalib on	: 08 Jun 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\080R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 80
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19480 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 03:29 AM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 07:10 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



Mountain States Analytical

The Quality Solution

Geowest Golden, Inc. Salt Lake Office
175 West 200 South
Suite # 2006
Salt Lake City, Ut 84101

Attn: Mr. Paul Weissenborn
Project: Maverik - Kirtland NM

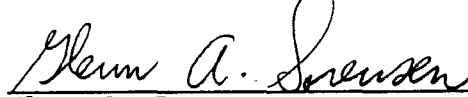
Sample ID: PZ-3
Matrix: Waste Water

MSAI Sample: 19481
MSAI Group: 4783
Date Reported: 06/09/94

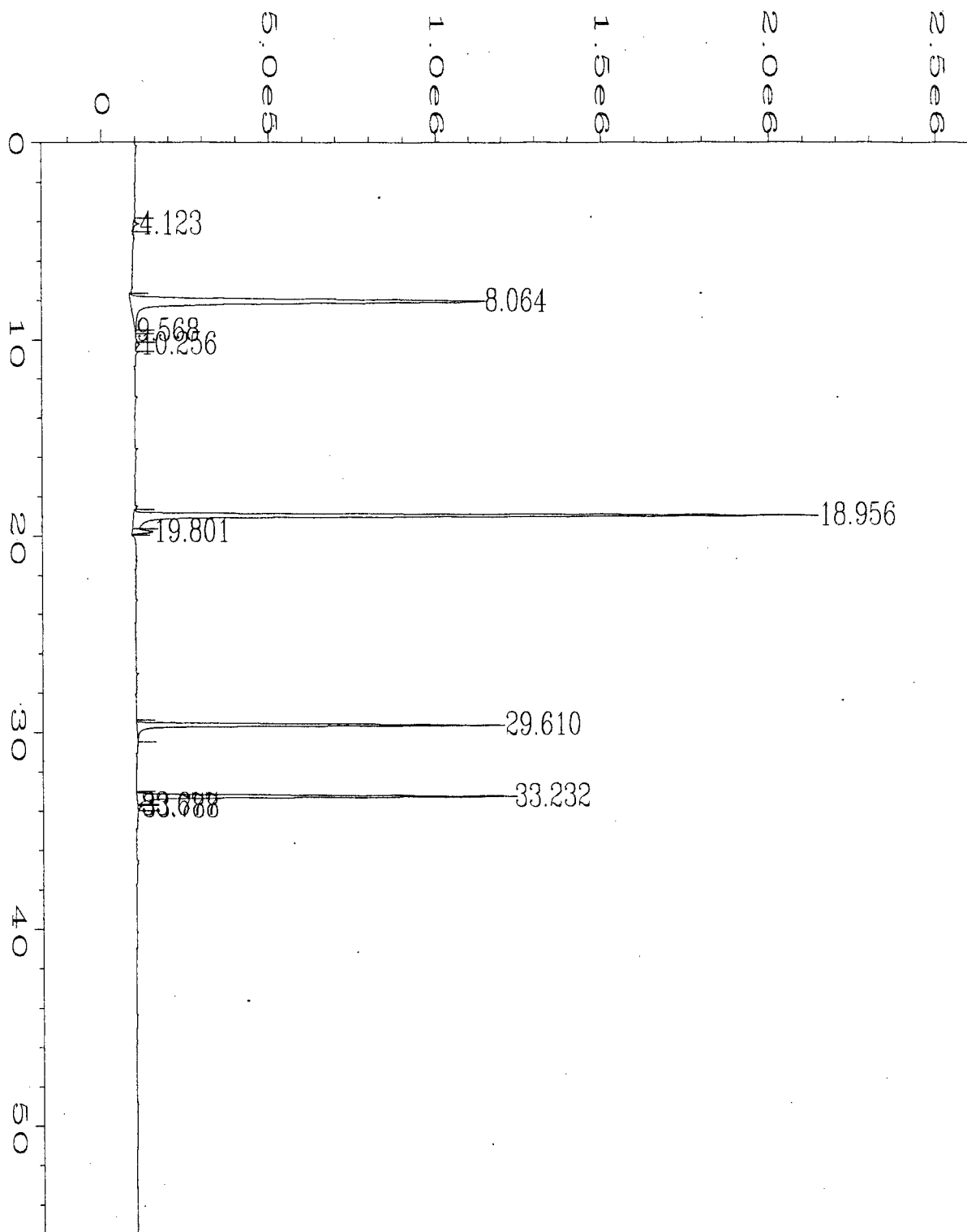
Discard Date: 07/09/94
Date Submitted: 05/27/94
Date Sampled: 05/25/94
Collected by: DA
Purchase Order: 9131.01
Project No.:

Test	Analysis	Results as Received	Units	Limit of Quantitation
5515	Purgeable Aromatics/Halocarbons Method: 600 SERIES 601/602			
	1,2-Dichloroethane	12.1	ug/l	1.0
	Benzene	< 1.0	ug/l	1.0
	Toluene	< 1.0	ug/l	1.0
	Ethylbenzene	< 1.0	ug/l	1.0
	m,p-Xylene	< 1.0	ug/l	1.0
	o-Xylene	< 1.0	ug/l	1.0
6159	Chromatograms/Etc. GC Method: IN HOUSE MSAI	See Attached		

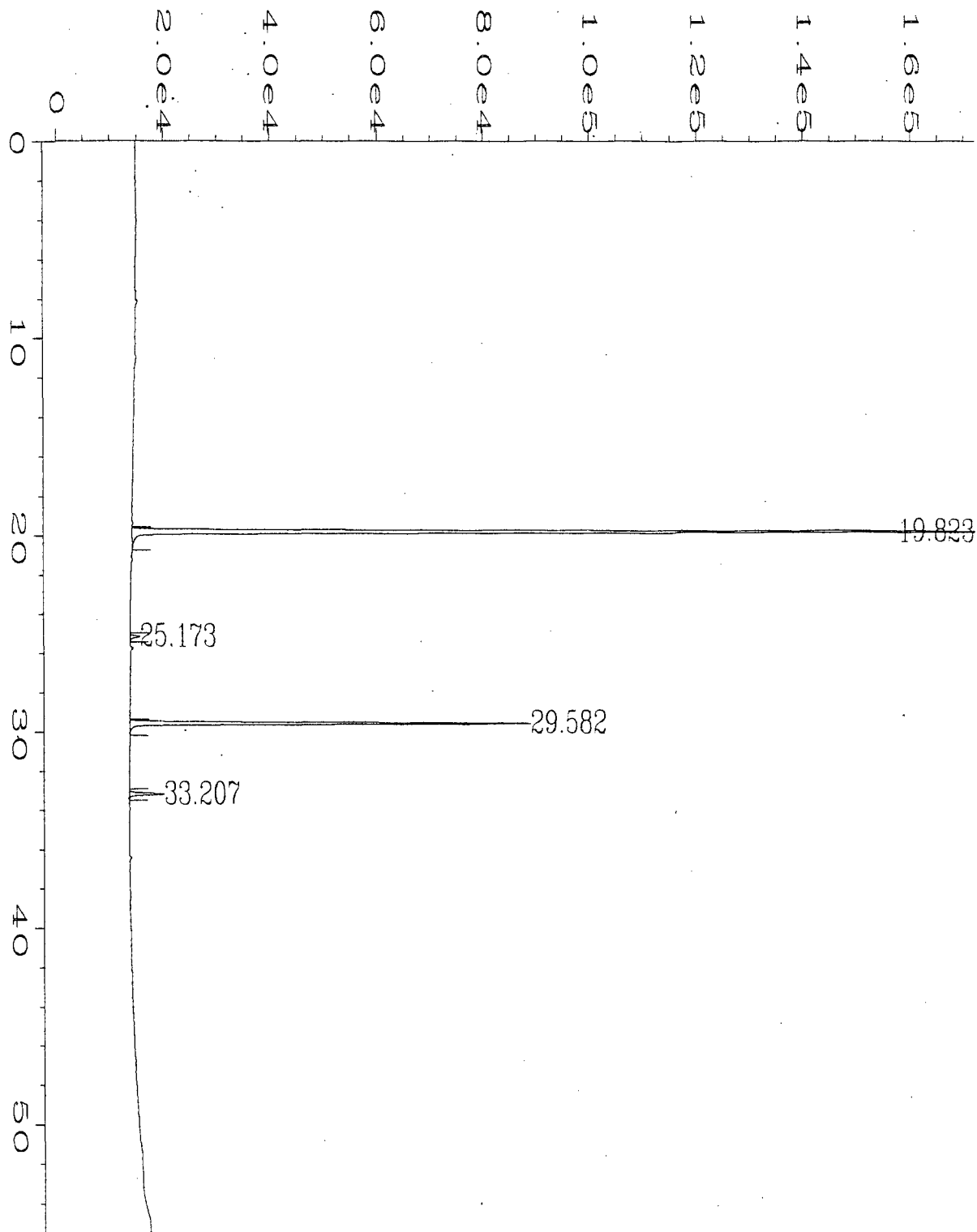
Respectfully Submitted,
Reviewed and Approved by:


Glenn A. Sorensen
Project Manager





Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\083F0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 83
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19481 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 06:43 AM	Analysis Method	: 502VOL1.MTH
Report Created on:	08 Jun 94 07:07 PM	Sample Amount	: 0
Last Recalib on	: 08 Jun 94 06:07 PM	ISTD Amount	: 10
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\23MAYVOL\083R0101.D	Page Number	: 1
Operator	: PWK	Vial Number	: 83
Instrument	: P&T #1	Injection Number	: 1
Sample Name	: 19481 DF1	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	502VOL1.MTH
Acquired on	: 01 Jun 94 06:43 AM	Analysis Method	: 502VOL2.MTH
Report Created on:	08 Jun 94 07:09 PM	Sample Amount	: 0
Last Recalib on	: 08 JUN 94 05:19 PM	ISTD Amount	: 10
Multiplier	: 1		



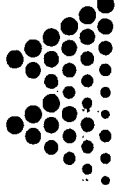
Nº 2786

Sample Chain of Custody

[illegible]

1645 West 2200 South, Salt Lake City, Utah 84119 (801) 973-0050 FAX (801) 972-6278

White Copy - Original Retain by Lab Yellow Copy - Return to Customer Pink Copy - Retain by Sampler



Mountain States Analytical

DEPT. OF

NO 2784

Sample Chain of Custody

JUN 20 1994

DEPT. OF

Client Name: MAVERIK / GEOWEST P.O.# 913101
Phone #: 801-359-3059 Fax #:
Project Name#: KIRTLAND, NM
Sampler: Danell R Anderson

Sample Identification	Date Collected	Time Collected	Analysis Required				Total of Containers	Rush?	Remarks	Temp. of Samples Upon Receipt
			Grab	Composite	Soil	Water				
MW - 10	5/25	1530								
MW - 17		1650								
MW - 18		1700								
MW - 19		1800								
MW - 20		1610								
MW - 21		1300								
MW - 22		1515								
MW - 25		1730								
LEGUP BLANK		1500								
Name of Shipper	Airbill No.	Date	Time	Sample relinquished by:	Date	Time	Sample received by:	Date	Time	
Received By (Lab)	Date	Time	Seals Intact?	Danell Anderson	5/27/94	1220	Samuel (Ser)	5/27/94	1220	
Turnaround Time Requested (please circle): Normal Rush										
(Rush TAT is subject to MSAI approval and surcharge)										
Report Results By: (Date)										
Rush results requested by (please circle): Phone Fax										
Report Results to: <u>7601 W. 2200 S.</u>										
Type of Disposal:										
Authorized for Disposal by:										
Date/Time of Disposal:										
Disposed of by:										