• Consulting Hydrogeologists
• Engineers
• Environmental Scientists

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(12)

July 15, 1999

Mr. Scott Bigger
Spillane's Service Center
1951 Shelburne Road
Shelburne, VT 05482

RE: Spillane's Service Center
Shelburne, Vermont
Quarterly Monitoring Report

Dear Scott:

Quarterly groundwater sampling and monitoring was completed at Spillane's Service Center in Shelburne, VT on May 17, 1999. Field and laboratory results are presented below.

1.0 GROUNDWATER FLOW

As shown by the water table contour map on page 1 of Appendix 1, the groundwater flow direction is from southeast to northwest at a gradient of ±1.0%. This is consistent with previous maps. Water table elevations measured in May 1999 are about a foot lower for this season of the year, as illustrated by comparing measurements recorded since 1991 at selected wells (Appendix 1, pages 2-4).

2.0 PLUME CONFIGURATION

Laboratory reports from the May 1999 sampling round are included on pages 1-13 of Appendix 2. A BTEX concentration contour map can be found on page 1 of Appendix 1. Contaminant concentrations remain elevated in the center of the site, with the highest BTEX levels occurring at SB-27 (<17,320 ppb), SB-11 (<8,914 ppb), SB-40 (8,308 ppb), SB-28 (7,132 ppb), and MW-1 (<6,587 ppb). The extent of detectable contamination is similar to that shown in the previous quarter, but concentrations have increased at several wells. Most notably, BTEX concentrations increased at SB-11 (<20.5 ppb to <8,914 ppb), SB-27 (<5,052 ppb to <17,320 ppb), SB-28 (<4,027 ppb to 7,132 ppb), MW-1 (3,934 ppb to <6,587 ppb), SB-6A (3,456 ppb to <4,393 ppb), and RW-1 (1,890 ppb to <4,589 ppb). However, concentrations decreased at wells SB-21 (1,759 ppb to 42.9 ppb), CW-2 (389.6 ppb to 88.2 ppb), and SB-32 (49.8 ppb to <4 ppb). At the time

of sample collection, hydrocarbon odors were still noted in several of the wells, as summarized on page 5 of Appendix 1.

The annual average BTEX concentrations from 1991 through the present for the site are summarized in the graphs on pages 6-7 of Appendix 1. Benzene, BTEX, and MTBE concentrations reported from 1991 through the present for ten selected wells on the site are summarized in the tables on pages 8-11 of Appendix 1. The graphs on pages 12-21 illustrate BTEX concentrations and water table elevations for these ten wells. Several of these monitoring points (e.g. SB-11, SB-21, SB-25, SB-28, SB-29, and SB-32) show a relatively steady decline in BTEX between 1991 and 1999. Data for wells MW-1 and SB-27 show fluctuations that are attributable to seasonal variations in the groundwater across the smear zone.

The table shown below summarizes all of the compounds that exceed Vermont Groundwater Enforcement Standards (VGES) during the May 1999 sampling round.

Well	Compounds Exceeding VGES (ppb)	Detection Limits Exceeding VGES (ppb)
SB-6A	Ethylbenzene (803)	Benzene (ND<50); MTBE (ND <500)
SB-11	Ethylbenzene (774); Toluene (1,270)	Benzene (TBQ<50); MTBE (ND <500)
SB-24	MTBE (82.3)	
SB-25	Benzene (18.3)	
SB-27	Ethylbenzene (2,170); Toluene (1,950); Xylenes (13,100)	Benzene (ND<100); MTBE (ND<1000); 1,4-Dichlorobenzene (ND<100)
SB-28	Benzene (261); Ethylbenzene (741)	MTBE (ND<100)
SB-40	Benzene (262); Ethylbenzene (966); Toluene (1,530)	MTBE (ND <1000); 1,4-Dichlorobenzene (ND<100)
MW-1	Toluene (2,900)	Benzene (ND<50); MTBE (ND <100)
MW-110	Benzene (38.0)	MTBE (ND<100)
MW-113	Benzene (10.3)	
RW-1		Benzene (ND<20); MTBE (ND<200)

A general improvement in water quality at the site since sampling was initiated is demonstrated by comparing the average BTEX concentration at each well from year to year (pages 5 and 6 of Appendix 1). The percent decrease in BTEX at these wells between 1991 and 1999 is shown in the following table:

First Quarter Average BTEX Concentration (ppb)			
Well No.	2nd Quarter 1991	2nd Quarter 1999	Percent Decrease
SB-11	14,205	8,914	37 %
SB-27	28,427	17,320	39 %
SB-28	31,669	7,132	77 %
SB-32	2,035	< 4	> 99 %

These calculations show that though contaminant concentrations remain elevated in the core of the site, there has been considerable improvement in water quality through natural degradation processes on the perimeter of the plume. Two exceptions to the general decline in BTEX concentrations are noted at SB-27 and MW-1. Average concentrations of BTEX at SB-27 had shown an increasing trend in 1997 and 1998 and is appears to be stabilizing in 1999. This appears to be the result of seasonal fluctuations. MW-1, also in the core of the site, had similar increases in 1997 and 1998, but appears to be decreasing in 1999.

There are several wells that have had BTEX concentrations below detection limits for at least the past two sampling rounds (SB-12, SB-13, SB-14, SB-23, SB-26, SB-33, SB-35, MW-100, MW-105, and CW-1).

3.0 CONCLUSIONS AND RECOMMENDATIONS

May 1999 sampling showed a plume configuration with the same lateral extent of detectable contamination but an increase in contaminant concentrations at several wells. Long term trends confirm an improvement in water quality at the site.

In compliance with Vermont's Groundwater Rules, this report serves as notification of the exceedance of at least one standard for this monitoring period in wells SB-6A, SB-11, SB-24, , SB-25, SB-27, SB-28, SB-40, MW-1, MW-110, and MW-113.

We recommend continued quarterly sampling at all monitor wells to further document changes in the plume configuration. The next sampling round is scheduled for August 1999.

Please feel free to contact our office if you have any questions or comments on this report.

Sincerely,

Kathleen E Bauman

Kathleen Bauman
Staff Scientist

Enclosures

cc: Richard Spiese, Sites Management Section
Peter McCarthy, Key Bank of Vermont

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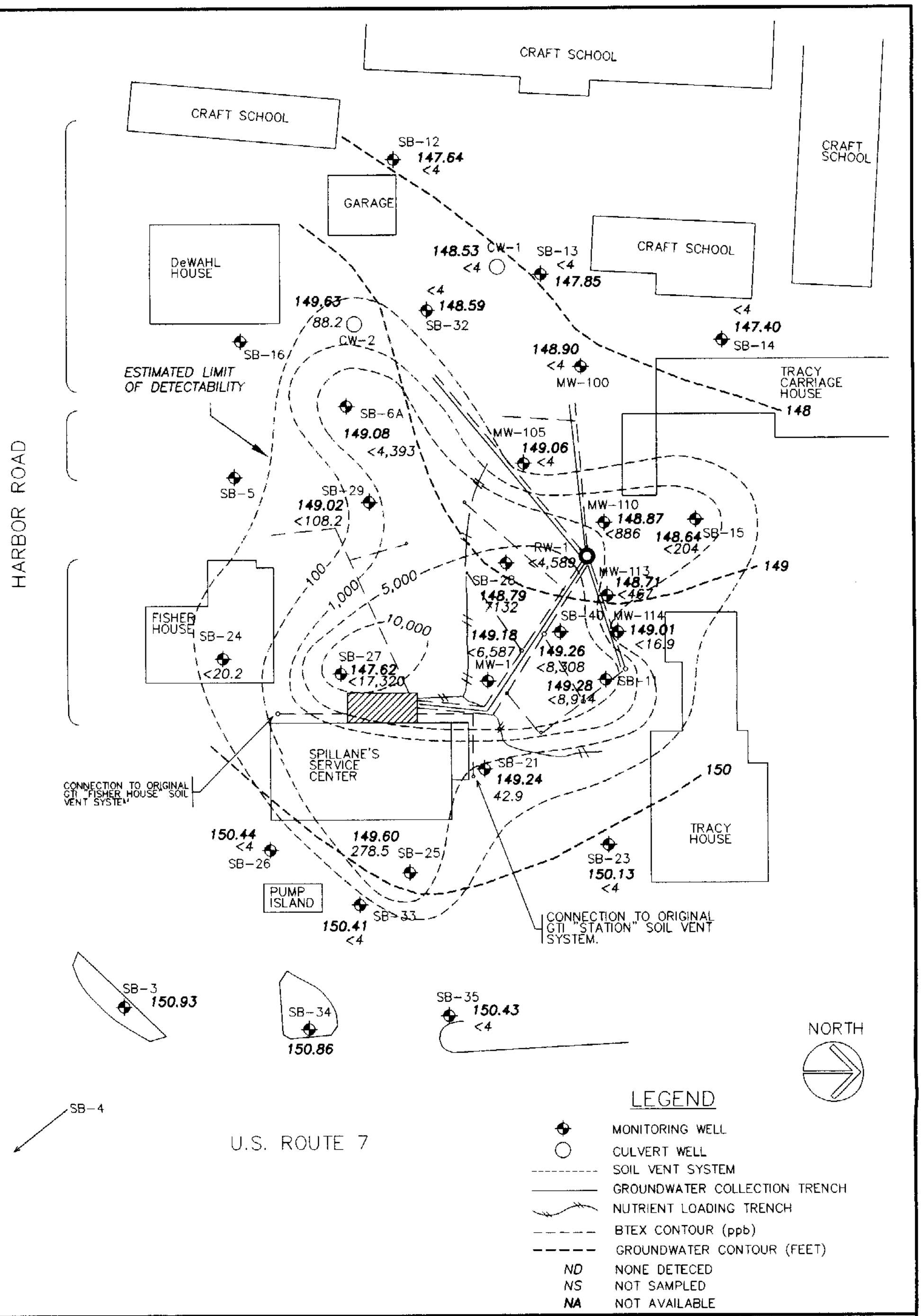

Spillane's Service Center

SHELBURNE, VERMONT

WATER TABLE AND TOTAL BTEX CONCENTRATION CONTOUR MAP - 5/17/99

SCALE: 1" = 30'

FILE: C:\SPILLANE\SPILLANE

DATE: JULY 9, 1999

PROJECT NO. 93856

DRAWN BY: S. Smith

PROJ. MGR: D. Grover

APPROVED: J. Noyes

☐ DRAFT ☒ FINAL

Heindel and Noyes

• Hydrogeology • Ecology •
• Environmental Engineering •
CONSULTING SCIENTISTS AND ENGINEERS
P.O. BOX 64709
BURLINGTON, VERMONT 05406-4709

Prepared By:
Information & Visualization Services

SPILLANE'S SERVICENTER
Shelburne, Vermont
Water Table Elevations (ft)

Well	Top of Pipe Elevation	1/11/91	2/12/91	3/12/91	4/12/91	5/19/91	6/11/91	7/19/91	8/19/91	9/11/91	10/18/91	11/15/91	12/23/91	1/27/92	2/5/92	3/9/92	4/7/92	5/5/92
SB-03	159.05																	
SB-04	159.02																	
SB-05	156.06																	
SB-06A	154.29																	
SB-11	154.39	149.40	149.70	150.20	150.30	149.63	148.81	148.19								147.33		148.71
SB-12	154.04																	
SB-13	152.47																	
SB-14	153.48																	
SB-15	153.76																	
SB-16	156.47																	
SB-21	154.15				150.80	150.79	150.04	148.94								148.06		149.59
SB-23	154.77																	
SB-24																		
SB-25	156.93	151.20	150.90	151.10	151.40	151.03	150.33	149.47								148.92		150.78
SB-26	157.29			151.20		151.18	150.70	149.66								149.51		150.88
SB-27	157.45			150.40		150.17	149.55	148.52								148.51		149.95
SB-28	152.52	150.20	150.20	150.20	150.30	149.46	148.73	148.00								147.68		149.50
SB-29	156.12	150.10	149.90	150.10	149.80	149.37	148.66	147.69								147.96		149.29
SB-32	153.51	149.10	149.20	149.20	149.40	148.16	147.60	146.92								147.68		148.81
SB-33	156.78																	
SB-34	157.73																	
SB-35	156.48																	
SB-40	153.42																	
MW-1*	153.29					144.81	153.29	143.21										149.24
MW-100	152.30																	148.28
MW-105	152.29																	
MW-110	152.96																	
MW-113	153.82																	
MW-114	154.39																	
CW-1	152.58																	
CW-2	154.01																	

* RW-1 water level data is used for MW-1 up to November 91.
** Measurement taken on 8/27/98.

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SPILLANE'S SERVICENTER
Shelburne, Vermont
Water Table Elevations (ft)

Well	Top of Pipe Elevation	6/9/92	7/22/92	8/26/92	9/29/92	10/29/92	12/1/92	12/30/92	12/31/92	1/27/93	2/24/93	3/24/93	4/28/93	5/27/93	6/28/93	9/27/93	4/22/94	7/20/94
SB-03	159.05																	
SB-04	159.02																	
SB-05	156.06																	
SB-06A	154.29																	
SB-11	154.39	149.24	147.93	147.35	147.12	147.49	148.55	147.53		147.66	147.24	146.09	149.89	150.14	149.13	147.76	151.39	148.86
SB-12	154.04																	
SB-13	152.47																	
SB-14	153.48																	
SB-15	153.76																	
SB-16	156.47																	
SB-21	154.15	149.60	148.73	148.50		148.14	148.94	148.19		148.34		147.83	150.75	150.51	149.79	148.27	151.65	149.40
SB-23	154.77																	
SB-24																		
SB-25	156.93	150.40	149.50	148.63	149.56	149.08	149.67	149.21		149.21	148.48	148.48	151.88	151.20	150.74	149.22	152.18	150.07
SB-26	157.29	150.83	149.75	149.55	149.11			149.59				149.03			150.69	149.87	151.93	150.19
SB-27	157.45	150.03	148.94	149.50	148.20	149.57	150.81	149.84		149.60	148.87	149.30	151.78	151.37	151.18	149.76	152.36	150.34
SB-28	152.52	148.77		147.36	146.94	147.41	148.26	147.29		147.58	146.89	146.58	149.58	149.87	148.84	147.51	151.04	148.67
SB-29	156.12	149.17	148.14	147.84	147.44	147.93	148.61	147.57		148.12	147.16		150.60	150.47	149.44	147.90	151.44	149.03
SB-32	153.51	148.58	147.39	147.15	147.04	148.99		146.64				146.27			148.89	147.36	150.64	148.34
SB-33	156.78																	
SB-34	157.73																	
SB-35	156.48																	
SB-40	153.42																	
MW-1*	153.29	149.23		148.17	147.75			147.85				147.50			149.27	149.40	151.37	149.18
MW-100	152.30	148.53	147.09	146.67	146.99			147.15				146.66			148.74	147.52	150.38	148.50
MW-105	152.29																	
MW-110	152.96																	
MW-113	153.82																	
MW-114	154.39																	
CW-1	152.58																	
CW-2	154.01																	

* RW-1 water level data is used for MW-1 up to November 91.
** Measurement taken on 8/27/98.

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SPILLANE'S SERVICENTER
Shelburne, Vermont
Water Table Elevations (ft)

Well	Top of Pipe Elevation	10/31/94	2/17/95	6/20/95	9/22/95	12/22/95	3/13/96	11/14/96	1/24/97	4/25/97	7/31/97	11/4/97	2/13/98	5/27/98	8/28/98	11/12/98	2/11/99	5/17/99
SB-03	159.05								151.40	152.10	150.97	150.79		151.19	152.85	152.04		150.93
SB-04	159.02																	
SB-05	156.06								150.69	151.72								
SB-06A	154.29							149.29	149.64	150.33		148.45		148.44	150.14	149.17	149.14	149.08
SB-11	154.39	144.56	148.67	148.52	147.10	148.83	149.16	149.37	149.44	150.63	149.23	148.53	150.14	149.49	150.47	149.26	148.14	149.28
SB-12	154.04							147.93	148.09	149.12	147.45	147.19		147.88	148.67	147.79	147.89	147.64
SB-13	152.47						152.47	148.30	148.45	149.69	147.99	147.91	152.47	149.32	149.32	148.30	148.47	147.85
SB-14	153.48							147.83	147.91	149.13	147.43	147.10		147.85	148.82	147.74	147.58	147.40
SB-15	153.76							148.79	148.99	150.20	148.65	148.22		148.96	149.78	148.73	148.51	148.64
SB-16	156.47							150.30	150.55	151.34	150.02	149.54		150.40	150.97			
SB-21	154.15	147.78	149.03	148.95		149.30	149.50	149.40	152.83	150.86	149.52	148.79	150.33	149.78	150.65	149.53	149.50	149.24
SB-23	154.77							149.55	149.89	150.90	149.71	148.79		149.93	150.55	149.73	148.37	150.13
SB-24																		
SB-25	156.93	145.87	149.79	149.63	148.33	149.84	150.18	150.15	150.64	151.43	150.22	149.45	150.65	150.55	150.92	150.23		149.60
SB-26	157.29	144.04	149.90	149.97	148.72	150.25	150.38	150.49	150.90	151.50	150.41	149.89	151.87	150.67	151.24	150.41	150.29	150.44
SB-27	157.45	142.82	149.87	150.15	148.88	150.35		150.50	150.84	151.73	150.44	150.04	151.15	150.69	151.35**	150.50	149.70	147.62
SB-28	152.52	143.04	148.31	148.02	147.47	147.96	148.98	149.03	149.40	150.34	148.82	148.30	148.89	149.17	150.00	148.97	148.62	148.79
SB-29	156.12	142.99	148.59	148.56	147.17	148.87		149.02	149.55	156.12	149.13	148.57	150.07	149.49	150.17**	149.22	148.12	149.02
SB-32	153.51	139.01	148.21	147.98	146.52	148.41	148.53	148.74	149.00	150.03	148.59	148.04	149.60	149.00	149.67	148.77	148.71	148.59
SB-33	156.78								150.86	151.64	150.51	150.04		150.76	151.31	150.53	149.78	150.41
SB-34	157.73							151.09	151.26	152.02	150.89	150.60		151.16	151.71	150.75		150.86
SB-35	156.48							150.53	151.07	151.84	150.62	149.96		150.93	151.29	150.51	149.98	150.43
SB-40	153.42							149.15	149.55	150.57	149.14	148.63		149.45	150.27	149.41		149.26
MW-1*	153.29	140.52	148.96	148.89	147.57	149.12	149.50	149.43	149.75	150.59	149.41	148.83	150.26	149.40	150.28	149.49	149.29	149.18
MW-100	152.30	132.99	148.35			148.70	148.76	148.45	149.21	150.14	148.73	148.15	150.50	149.11	150.47	148.25	148.70	148.90
MW-105	152.29							148.97	149.41	150.51	149.14	148.43		149.44	150.19	149.19	148.69	149.06
MW-110	152.96							149.04	149.40	150.51	148.95	148.27		148.25	150.15	149.03	148.96	148.87
MW-113	153.82							149.24	149.46	150.47	149.04	148.46		149.36	150.16	149.12	148.05	148.71
MW-114	154.39							149.21	149.62	150.53	149.15	148.42		149.39	150.19	149.19	148.04	149.01
CW-1	152.58								148.50	149.59	148.05	147.74		148.58	149.30	148.39		148.53
CW-2	154.01								149.23	150.31	148.77	148.19		149.17	149.81	149.01	147.91	149.63

* RW-1 water level data is used for MW-1 up to November 91.
** Measurement taken on 8/27/98.

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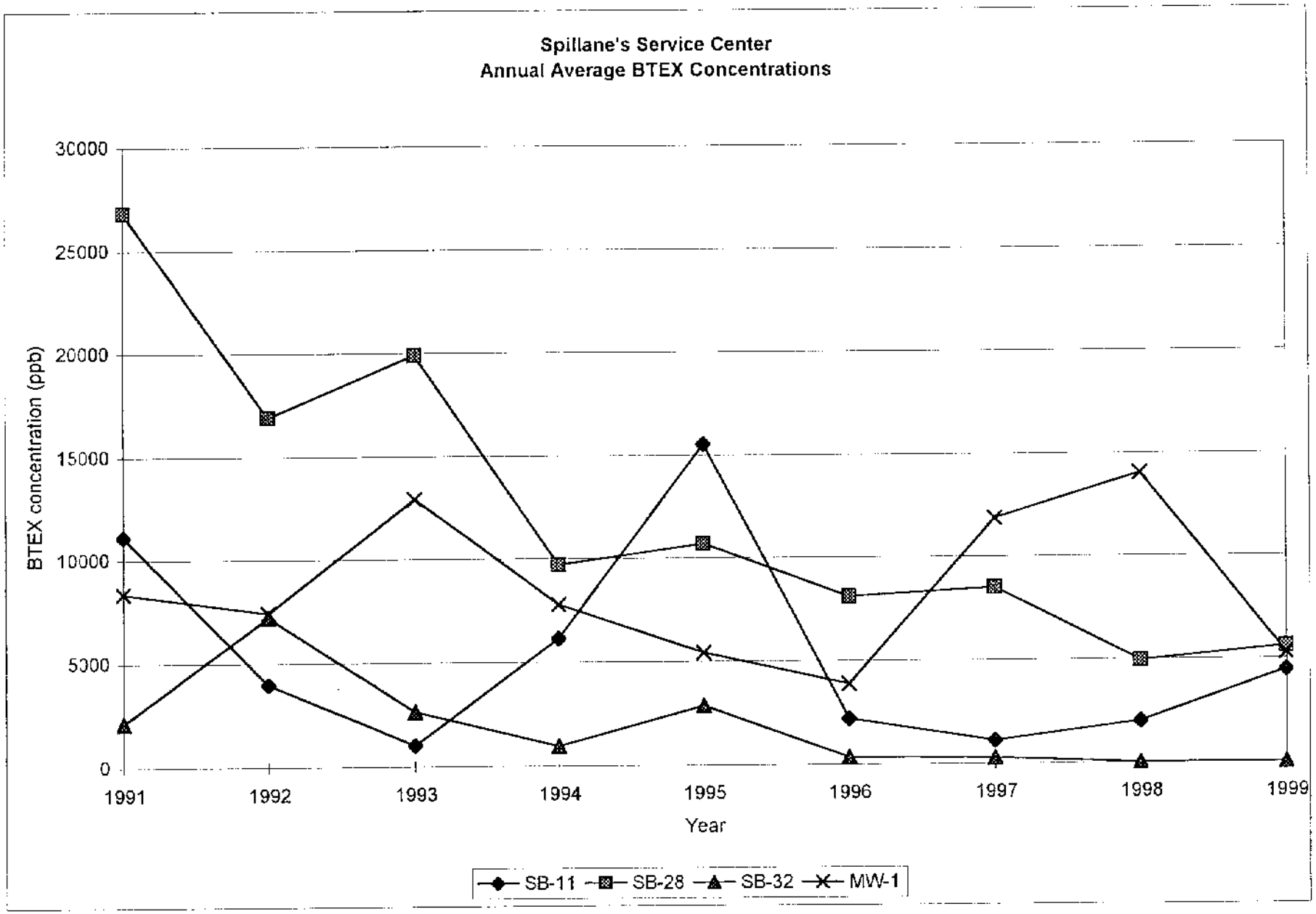
SPILLANE'S -- SHELBURNE, VT -- WQ SAMPLING FIELD NOTES

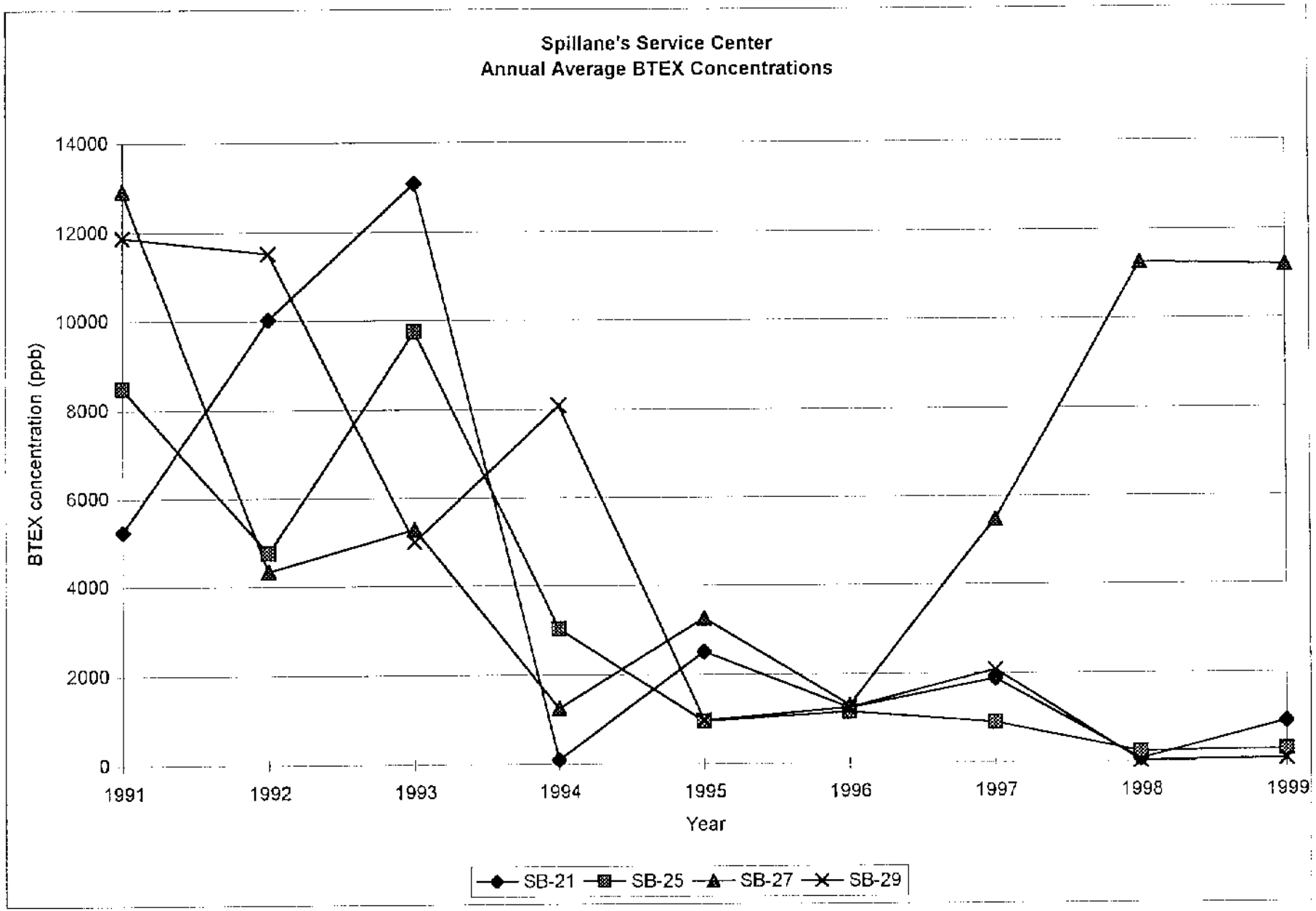
DATE: May 17, 1999 SAMPLING CONDUCTED BY: Kevin Brooks, H&N

WEATHER: 62 degrees F, winds S at 10 mph, sunny

SB-3, 34, 35
SAMPLE 1 PER QTR

MONITOR WELL	TOTAL DPTH FT BTP	WATER LVL FT BTP	AMT BAILED GALLONS	SAMPLE TIME	INITIALS	NOTES
SB-3	14.25	8.12	3.0	--	KB	Sampled SB-35
SB-4	11.58	Destroyed	--	--	KB	--
SB-5	8.00	Destroyed	--	--	KB	--
SB-6A	13.46	5.21	3.5	1456	KB	Gas odor, light Fe color
SB-11	9.83	5.11	2.0	1546	KB	Clear and odorless
SB-12	10.98	6.4	2.5	1453	KB	Odorless. heavy Fe growth
SB-13	7.81	4.62	1.5	1408	KB	Clear and odorless
SB-14	10.88	6.08	2.0	1412	KB	Odorless, light Fe growth
SB-15	6.50	5.12	0.75	1733	KB	Light silt, odorless
SB-16	10.54	Destroyed	--	--	KB	--
SB-21	6.37	4.91	0.75	1551	KB	Gas odor, dirty Fe color
SB-23	6.67	4.64	1.0	1555	KB	Clear and odorless
SB-24	3.90	2.75	0.5	1202	KB	Clear and odorless
SB-25	11.06	7.33	2.0	1427	KB	Odorless, dirty, light silt
SB-26	13.25	6.85	3.0	1408	KB	Light gas odor, clear
SB-27 *	14.63	9.83	2.5	1347	KB	Gas odor, Fe growth
SB-28 *	9.48	3.73	2.5	1702	KB	Light gas odor, clear
SB-29	13.13	7.1	3.0	1352	KB	Light silt, odorless
SB-32	14.50	4.92	5.0	1404	KB	Clear and odorless
SB-33	14.52	6.37	4.0	1420	KB	Clear and odorless
SB-34	21.25	6.87	7.0	--	KB	Sampled SB-35
SB-35	18.60	6.05	6.0	1413	KB	Light Fe growth, light gas odor
SB-40	14.50	4.16	5.0	1601	KB	Light Fe growth, odorless
MW-1 *	12.77	4.11	4.0	1547	KB	Light Fe growth, light gas odor
MW-100	19.31	3.4	8.0	1738	KB	Clear and odorless
MW-105	17.94	3.23	7.0	1654	KB	Clear and odorless
MW-110	17.52	4.09	6.0	1705	KB	Light Fe growth, odorless
MW-113	18.00	5.11	6.0	1658	KB	Light Fe growth, odorless
MW-114	17.65	5.38	6.0	1559	KB	Light Fe growth, odorless
CW-1	--	4.05	--	1400	KB	Clear and odorless
CW-2	--	4.38	--	1439	KB	Clear and odorless
RW-1	--	5.26	--	1447	KB	Clear and odorless
DUPLICATE	on MW 6A		--	1456	KB	--
TRIP BLANK	--		--	1507	KB	--
NOTES	* = analyzed for BTEX by EPA 8260					


Spillane's Service Center
Annual Average BTEX Concentrations
BTEX concentration (ppb)
30000
25000
20000
15000
10000
5000
0
1991
1992
1993
1994
1995
1996
1997
1998
1999
Year
SB-11
SB-28
SB-32
MW-1


Spillane's Service Center
Annual Average BTEX Concentrations
BTEX concentration (ppb)
14000
12000
10000
8000
6000
4000
2000
0
1991
1992
1993
1994
1995
1996
1997
1998
1999
Year
SB-21
SB-25
SB-27
SB-29

SPILLANE'S SERVICENTER
Shelburne, Vermont
Groundwater Quality Data (ug/L)

Well	Compound	1/11/91	2/12/91	3/12/91	4/12/91	5/19/91	6/11/91	7/19/91	8/19/91	9/11/91	10/18/91	11/15/91	12/23/91	1/27/92
SB-11	Benzene	801	1170	332	940	281	843	468	394	135	45.2		40.6	16.5
	BTEX	15891	22860	7773	20970	4751	16893	12818	10020	8210	1321.3		781.1	236.86
	MTBE	281	667	ND	374	ND	TBQ	545	262	60.2	30.9		ND	ND
SB-21	Benzene				339	383	511	272					568	312
	BTEX				5488	6012	10274.6	2051					2324.9	2324.3
	MTBE				ND	ND	86.3	ND					ND	ND
SB-25	Benzene	581	635	509	492	605	91.6	680	70.3	160	189	21	234	53.7
	BTEX	9225	12512	9863	11851	14765	18474.6	12277	2830.3	2323.5	4000	1071.4	2565.2	2158.7
	MTBE	829	850	730	176	447	1140	829	128	61.4	3.46	ND	ND	ND
SB-26	Benzene			ND			2.68		14.93	ND			2.4	
	BTEX			20.57			14.93			ND			11.32	
	MTBE			ND			1.26			ND			ND	
SB-27	Benzene			3820			3490			1460	158	196	537	251
	BTEX			26410			28427			8160	509.95	5823.4	8160	3162.3
	MTBE			ND			928			717	317	26.3	9.18	20.5
SB-28	Benzene	706	154	391	ND	860	572	791	739	1750			2250	341
	BTEX	19836	25474	16838	24608	34910	35488	32004	23327	28780			27030	16639
	MTBE	ND	ND	ND	ND	ND	200	ND	ND	520			161	ND
SB-29	Benzene	88	ND	160	68.6	216	775	878	1120	337	1550	1410	1370	1140
	BTEX	2530	223.7	3672	4969.6	10738	23995	23088	17150	6109	12360	14585	23060	11644
	MTBE	ND	ND		ND	ND	566	710	533	98.8	83.2	ND	ND	ND
SB-32	Benzene	2220	364	855	2030	2650	262	888	906	2250	ND	81.7	1610	
	BTEX	6079	392.29	1015.5	2717	2920	469.1	1001	1092.1	2957.4	ND	1141.6	3315.1	
	MTBE	839	16.5	105	129	ND	95	179	78.5	130	27.7	55.2	120	
MW-1	Benzene			195		160								
	BTEX			14211		2478								
	MTBE			190		TBQ								
MW-100	Benzene												4.83	
	BTEX												4.83	
	MTBE												1.45	

ND = None detected
TBQ = Trace beyond quantitation limit
* =Duplicate laboratory analysis of SB28 by way of EPA Methods 602 and 8260 produced irreconcilable amounts. Method 8260 reported.
**SB-29 was sampled on 2/17/99.

u:\projects\spillane\spin_tbl.xls

SPILLANE'S SERVICENTER
Shelburne, Vermont
Groundwater Quality Data (ug/L)

Well	Compound	2/5/92	3/9/92	4/7/92	5/5/92	6/9/92	7/22/92	8/26/92	9/29/92	10/29/92	12/1/92	12/30/92	12/31/92	1/27/93
SB-11	Benzene	39	33.2	TBQ	ND	8.5	11.9	34.1	281	394	ND		ND	ND
	BTEX	674.5	1099.7	1386	539	100.5	700.2	3466.1	14011	15284	7033		2853	2273.8
	MTBE	ND	ND	ND	ND	ND	ND	81.7	ND	821	TBQ		ND	88
SB-21	Benzene	922	4520	151	993	847		877			2340	2060		5170
	BTEX	7098.6	27100	984.4	6433.5	8677		8613			14518	14423		46280
	MTBE	ND	ND	ND	ND	ND		ND			591	ND		2430
SB-25	Benzene	55.1	ND	TBQ	ND	TBQ	ND	ND	ND	23.9	ND	75.9		
	BTEX	3406.6	1256.9	95.71	8552	9831	12375	11089	2274	187.1	1400	4289.9		878
	MTBE	ND	ND	1.63	ND	ND	ND	ND	ND	ND	141	ND		
SB-26	Benzene		ND			ND			ND			ND		
	BTEX		ND						ND			ND		
	MTBE		ND			ND			ND			ND		
SB-27	Benzene	694	150	350	377	ND	132	241	237	337	TBQ	329		324
	BTEX	13244	3520	8295	5738	302	3106.1	3148	2223	5567	4.2	3640		5109
	MTBE	19.1	555	ND	ND	ND	33	121	ND	715	15.7	219		402
SB-28	Benzene	1120	ND	78.5	537	677		276	259	329	935	194		433
	BTEX	19910	1119.22	13318.5	24795	12737		15003	24859	14041	23285	20247		31419
	MTBE	39.3		ND	ND	ND		ND	ND	326	422	ND		ND
SB-29	Benzene	868	1190	1300	277	457	496	444	384	977	193	260		530
	BTEX	11724	15945	15120	11367	9507	16111	10114	10064	10397	9277	6970		9368
	MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	TBQ	ND		559
SB-32	Benzene		ND			520			875	710		1380		
	BTEX		ND			1783.4			12755	9120		5114		
	MTBE		8.77			ND			ND	813		ND		
MW-1	Benzene					790			249			693		
	BTEX					10028			2881			9306		
	MTBE					157			ND			279		
MW-100	Benzene		ND		54.6	ND			27.2			19.5		
	BTEX		38.2		54.6	ND			27.2			21.1		
	MTBE		ND		5.4	3.5			ND			ND		

ND = None detected
TBQ = Trace beyond quantitation limit
* =Duplicate laboratory analysis of SB28 by way of EPA Methods 602 and 8260 produced irreconcilable amounts. Method 8260 reported.
**SB-29 was sampled on 2/17/99.

u:\projects\spillane\spln_tbl.xls

SPILLANE'S SERVICENTER
Shelburne, Vermont
Groundwater Quality Data (ug/L)

Well	Compound	2/24/93	3/24/93	4/28/93	5/27/93	6/28/93	9/27/93	4/22/94	7/20/94	10/27/94	2/17/95	6/20/95	9/22/95	12/22/95
SB-11	Benzene	ND	ND	ND	ND	ND	ND	ND		55.3	532	324	314	TBQ
	BTEX	2420	1514	235	244	99.9	346.9			6123.3	20482	12816	13924	14860
	MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-21	Benzene			138	303	TBQ		ND	5.2		1430	15.3		3.9
	BTEX			1275.4	3533	1246		10.4	175.4		7361	132.2		12.8
	MTBE			ND	ND	ND		ND	ND		ND	ND		ND
SB-25	Benzene	TBQ	10.3	163	84.7	70.5	ND	ND	ND	ND	ND	40.9	TBQ	ND
	BTEX	6.6	275.6	9356	14084.7	21316.5	22318	5991	2963.2	95.9	301.9	2477.3	132	870
	MTBE	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-26	Benzene		ND			ND	ND	ND	ND	ND	ND	ND	ND	ND
	BTEX		ND			2.1	ND	1.2	ND	ND	ND	ND	ND	ND
	MTBE		ND			ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-27	Benzene	49.3	270	70.2	230	244	208	65.2	6.1	35.9	102	175	26.2	67.2
	BTEX	533.3	2748	5595.2	6704	7037	9158	2160.2	421.1	1132	3873	5079	695.3	3346.2
	MTBE	ND	121	ND	ND	180	ND	ND	ND	ND	ND	ND	ND	ND
SB-28	Benzene	158	1110	TBQ	198	127	ND	42	143	81.4	ND	394	90.2	66
	BTEX	22291	23530	15728	14035	13784	18370	3288.9	12569	13224.4	9170	10741	11729.2	11044
	MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-29	Benzene	396		ND	ND	31.1	155	ND	ND		51.8	25.2	164	12.6
	BTEX	9217		545.1	164	4361.1	6284		8081		86.1	988.2	2439	342.3
	MTBE	ND		ND	ND	ND	ND	ND	ND	ND	19.6	ND	ND	ND
SB-32	Benzene		699			335	774	3.4	259	462	414	420	333	277
	BTEX		2144.7			3756	1946	16.6	364.7	2454.2	1481	2366	6713	800
	MTBE		ND			ND	ND	ND	ND		ND	ND	ND	58.7
MW-1	Benzene		1090			571	335	ND	547	306	131	291	194	400
	BTEX		14220			15661	8876	3272	15257	4729	2041	6041	3979	9606
	MTBE		ND			ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-100	Benzene		5.6			ND	1.4	4.2	4.2	ND	ND	ND	ND	ND
	BTEX		5.6			ND	1.4	4.2	7.6	ND	ND	ND	ND	ND
	MTBE		ND			ND	ND	ND	ND	ND	4.2	ND	ND	ND

ND = None detected
TBQ = Trace beyond quantitation limit
* =Duplicate laboratory analysis of SB28 by way of EPA Methods 602 and 8260 produced irreconcilable amounts. Method 8260 reported.
**SB-29 was sampled on 2/17/99.

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SPILLANE'S SERVICENTER
Shelburne, Vermont
Groundwater Quality Data (ug/L)

Well	Compound	3/13/96	11/14/96	1/24/97	4/25/97	7/31/97	11/4/97	2/14/98	5/27/98	8/28/98	11/12/98	2/11/99	5/17/99
SB-11	Benzene	ND	29.9	TBQ	< 2	TBQ	2.6	< 1	TBQ	21.2	< 10	TBQ < 1	TBQ < 50
	BTEX	487.7	3894.9	3719	< 256.3	< 238.9	220.2	23.4	4754	1512.2	< 1742.7	< 20.5	< 8914.0
	MTBE	ND	ND	ND	< 20	< 50	25.6	< 10	< 500	< 100	< 100	< 10	< 500
SB-21	Benzene	41.5	216	ND	6.4	8.9	328	TBQ	8.5	2.4	5.5	106	3.3
	BTEX	444.8	2011	ND	39.1	40.6	5553	8.8	108.3	44.5	78.8	1758.8	42.9
	MTBE	ND	ND	ND	< 10	< 10	500	< 10	< 10	< 10	< 10	< 100	< 10
SB-25	Benzene	ND	1.2	21.5	20	35.8	14.9	7.5	7.6	1.7	3.2		18.3
	BTEX	2266	34.5	1282.7	< 1020	1102.8	175.7	363.7	386.5	12.9	163.8		278.5
	MTBE	ND	ND	ND	< 200	< 200	26.9	32.0	50.0	< 10	< 10		< 20
SB-26	Benzene	ND	ND	ND	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	BTEX	ND	ND	TBQ	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	MTBE	ND	ND	ND	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
SB-27	Benzene		14.1	35.8	30.2	23.42	TBQ <20	< 20	< 50	< 20	< 50	< 50	< 100
	BTEX		1292	5944.8	7380.2	5420.4	3115	6650	16030	< 5770	< 16540	< 5052	< 17320
	MTBE		17.8	51.2	TBQ <40	TBQ <40	< 40	< 40	< 100	< 200	< 100	< 100	< 1000
SB-28	Benzene	65.0	65.0	ND	< 50	*55	< 50	121	113	TBQ < 50	79	< 20	261
	BTEX	8537	7626	7158	< 5850	*8611	< 12317	4571	4607	4760	5748	< 4027	7132
	MTBE	ND	ND	ND	< 100	*279	< 100	< 100	< 100	< 100	< 100	< 40	< 100
SB-29	Benzene		29.8	ND		TBQ	36.6	< 1	< 1	2.4	< 1	< 1**	< 1
	BTEX		1246.8	ND		< 2666	1484.6	< 4	50.6	6.4	5.8	< 12.4**	< 108.2
	MTBE		TBQ	ND		< 200	< 200	< 10	< 10	ND	< 10	< 10**	15.0
SB-32	Benzene	238	84.4	31.2	< 1	11.4	116	< 1	14.7	< 1	19.0	28.3	< 1
	BTEX	516	169.8	39	< 4	< 16.8	984	< 4	17.7	< 4	< 23.7	49.8	< 4
	MTBE	97.9	75	11.0	< 10	10.1	79.8	< 10	TBQ<10	< 10	11.3	17.2	< 10
MW-1	Benzene	36.0	264.0	320.0	368	181	203	284	159	241	22.2	45.4	< 50
	BTEX	1008	6740	13780	13608	12771	7305	12674	15969	22721	4710.2	3934.4	< 6587
	MTBE	ND	ND	ND	< 200	598	< 200	< 200	< 200	ND	TBQ < 40	TBQ < 40	< 100
MW-10C	Benzene	ND	ND	ND	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	BTEX	77.3	< 4	ND	< 4	< 5.1	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	MTBE	ND	ND	ND	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

ND = None detected
TBQ = Trace beyond quantitation limit
* =Duplicate laboratory analysis of SB28 by way of EPA Methods 602 and 8260 produced irreconcilable amounts. Method 8260 reported.
**SB-29 was sampled on 2/17/99.

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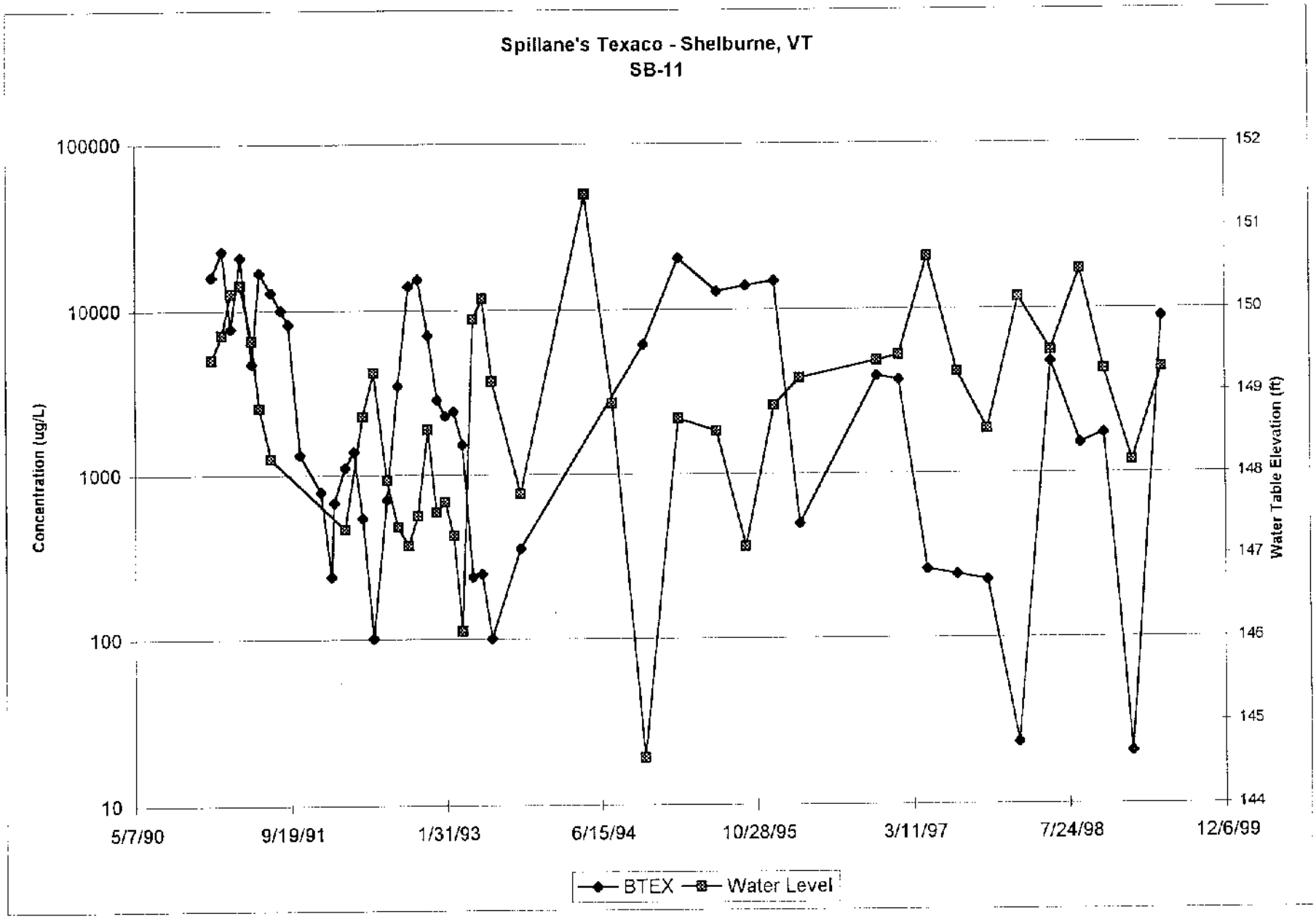

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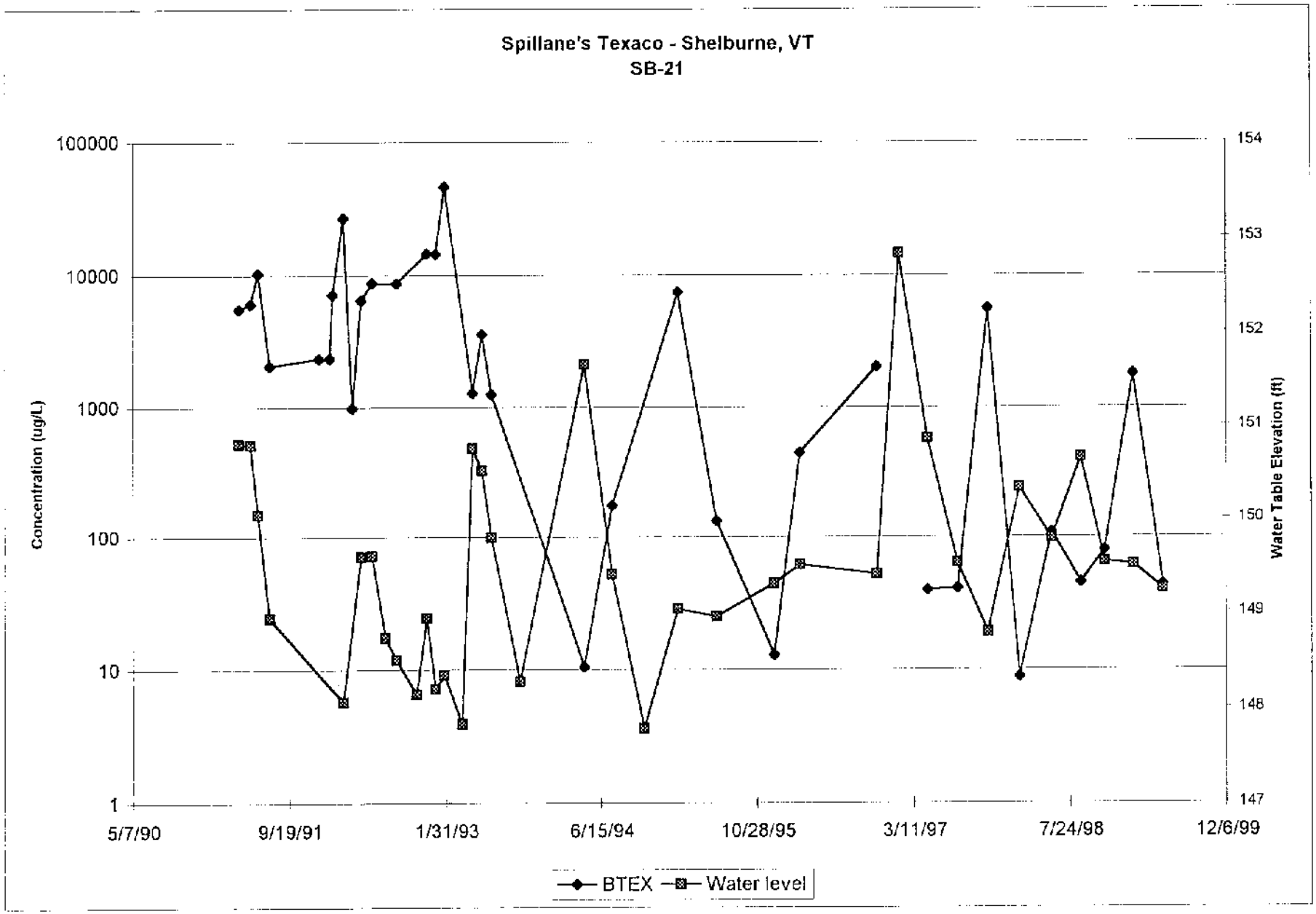

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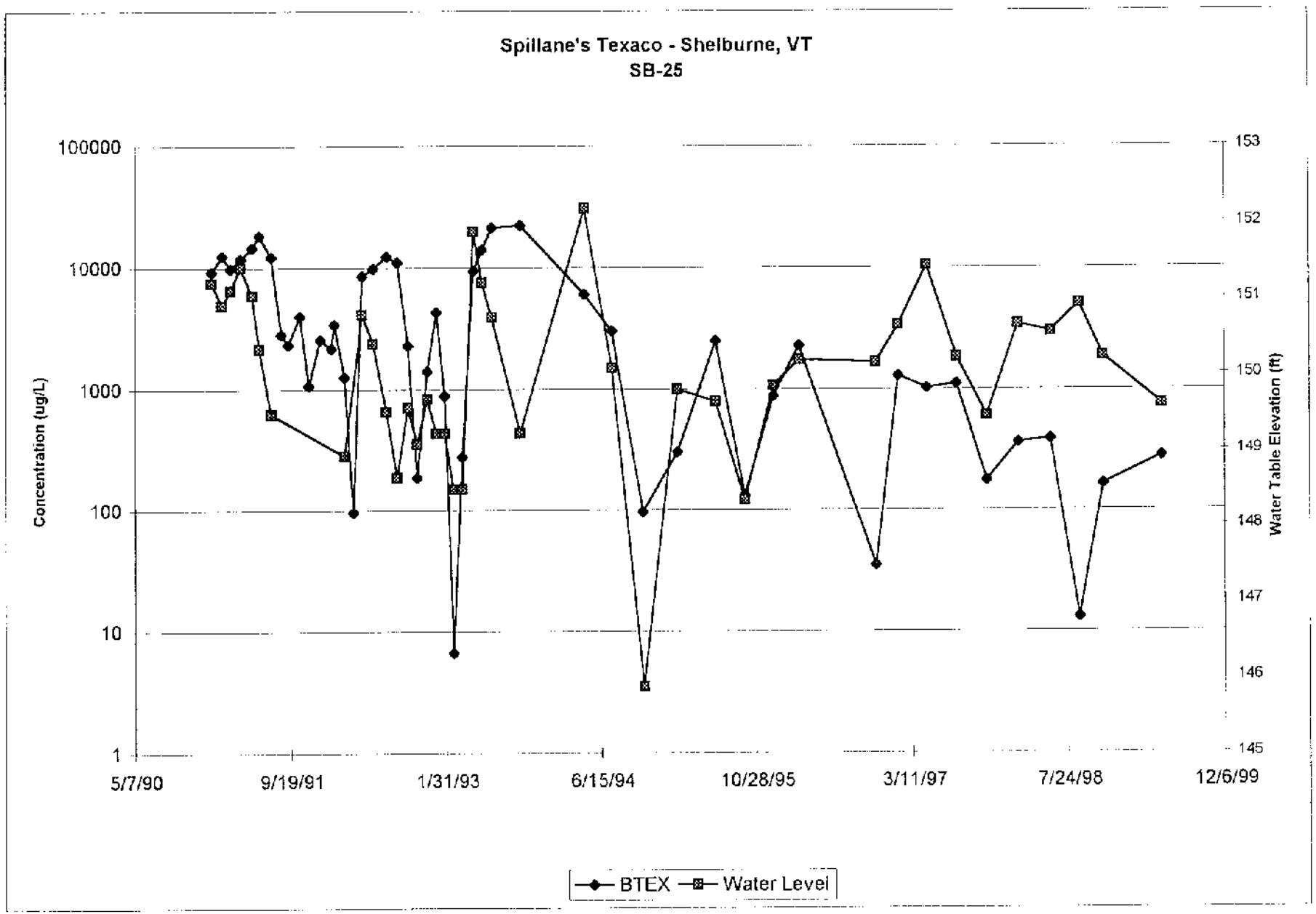

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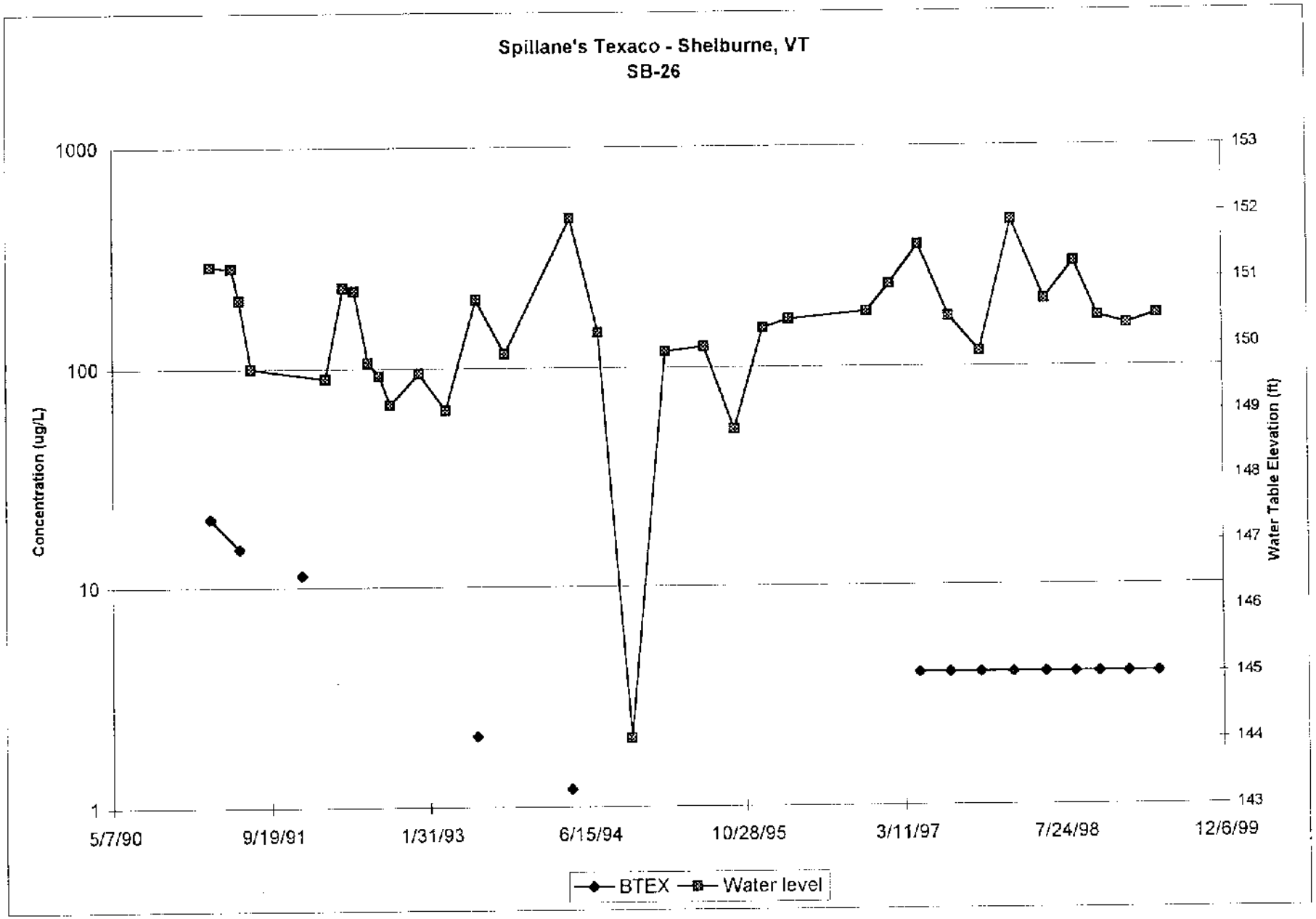

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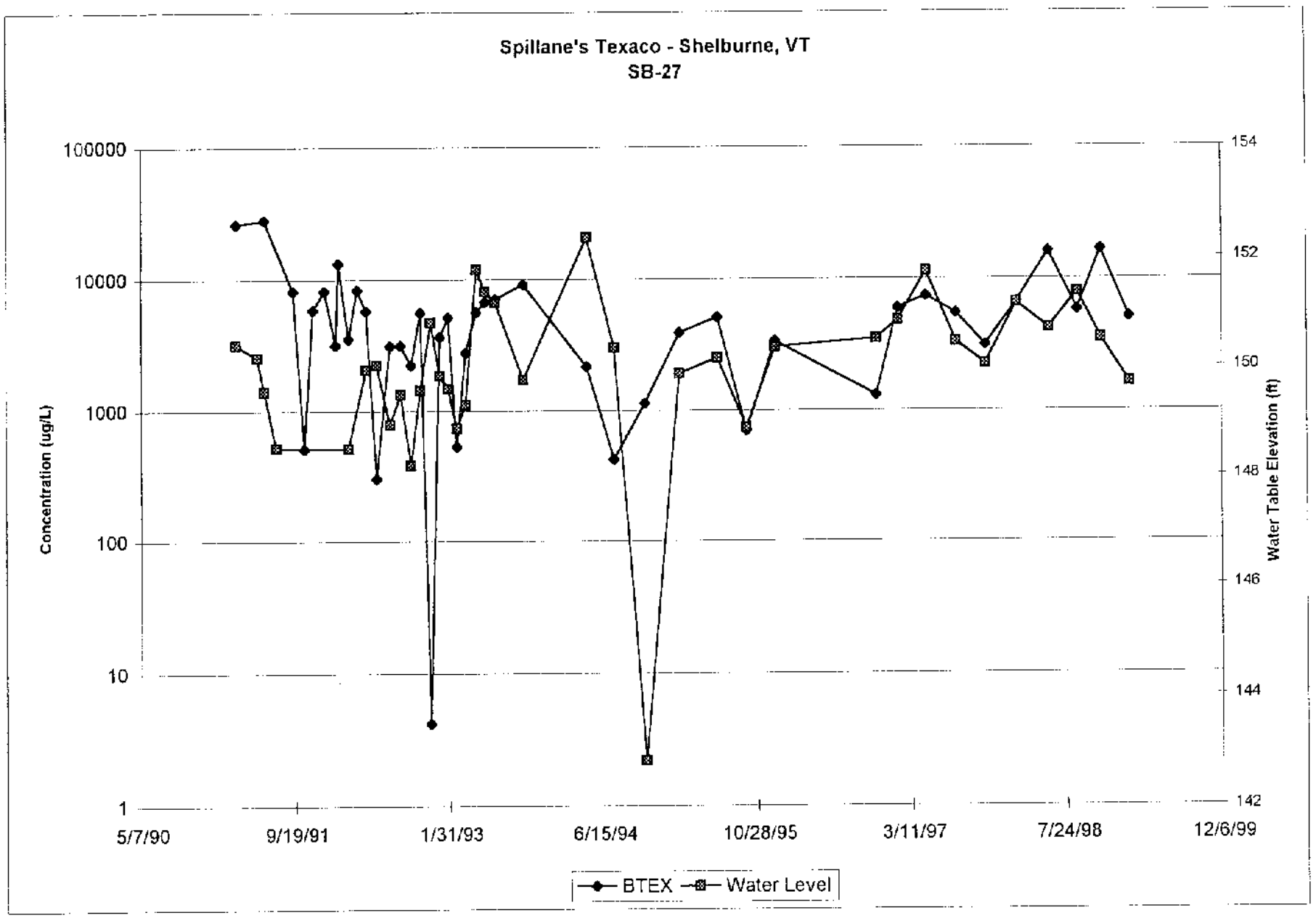

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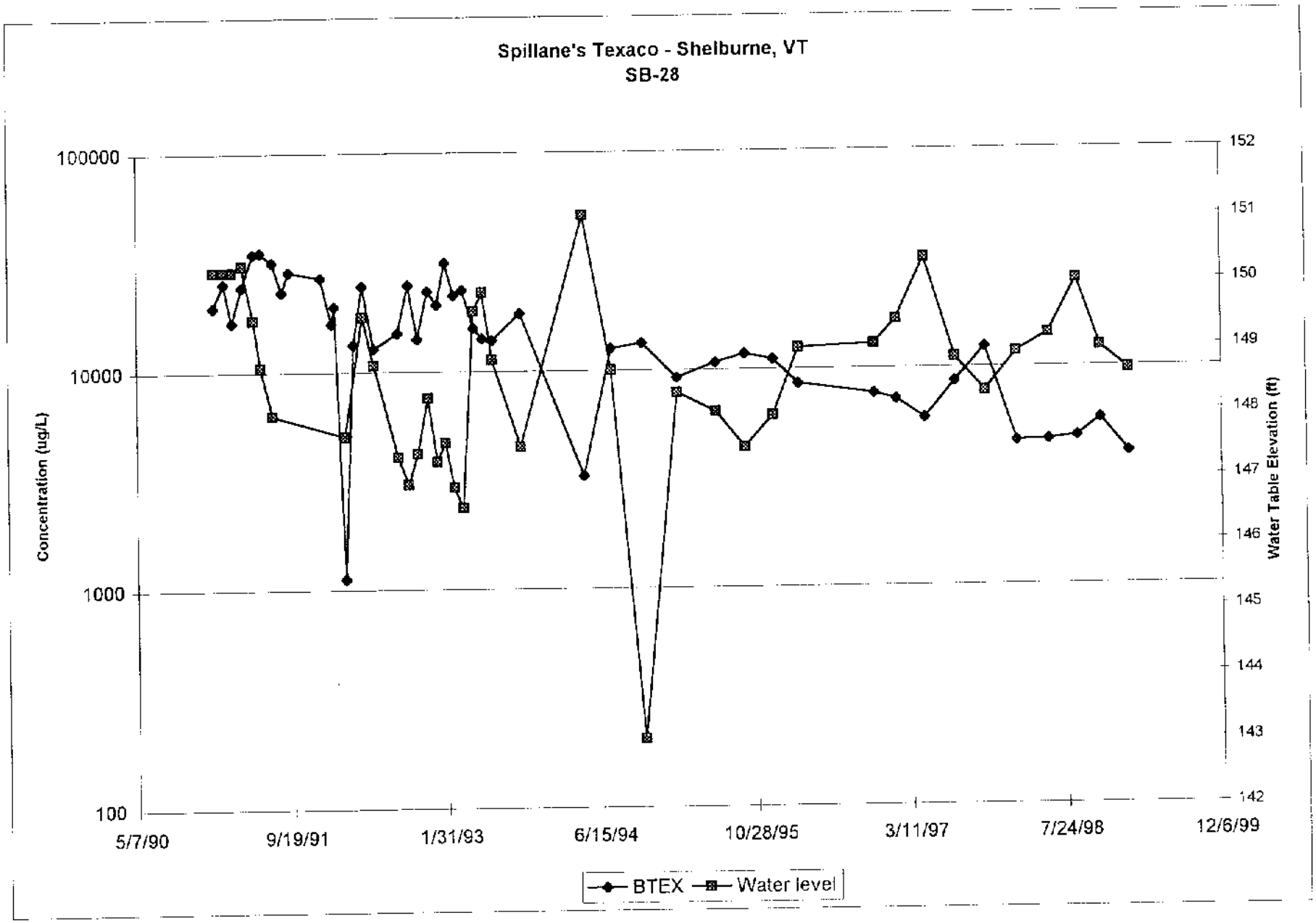

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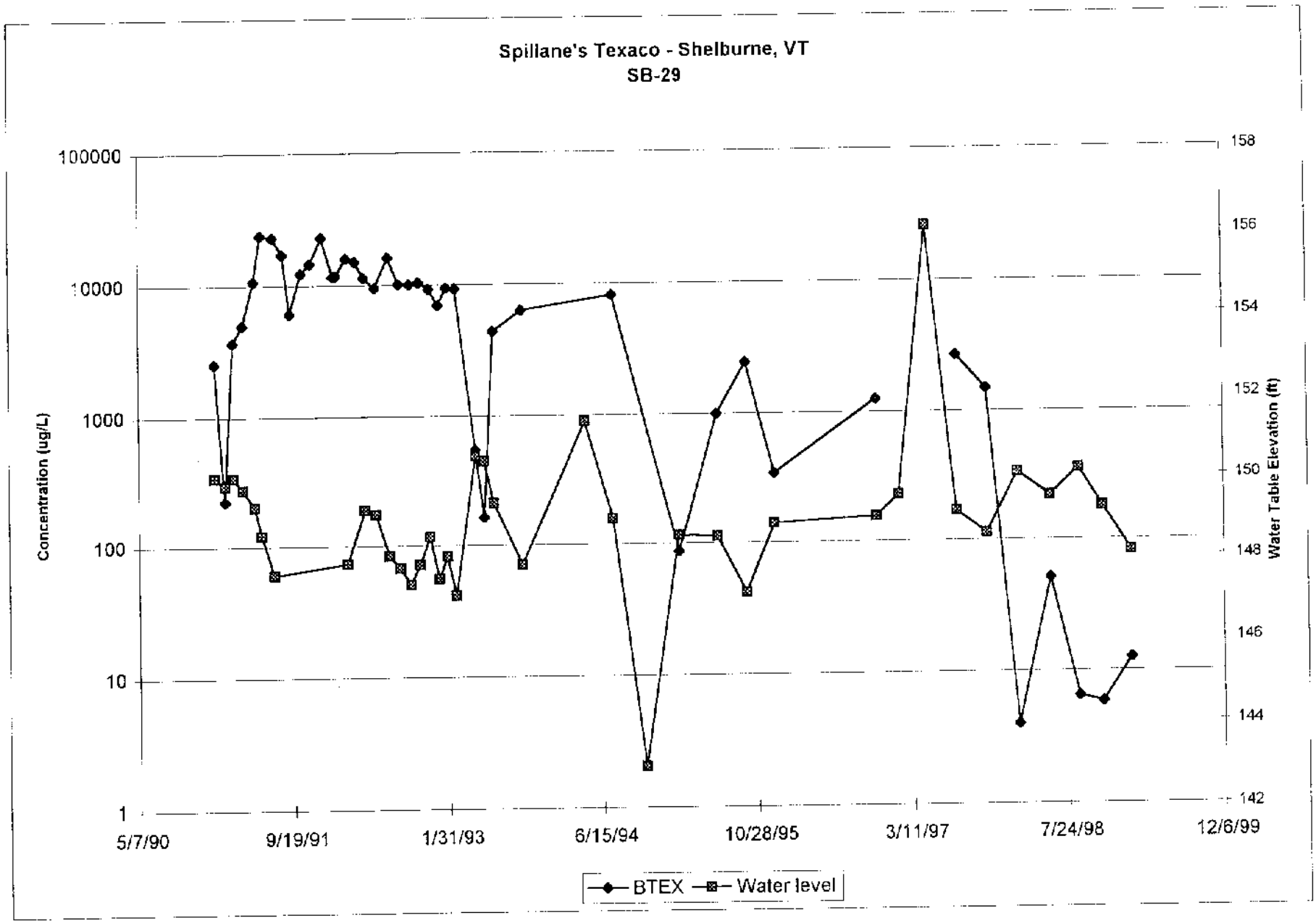

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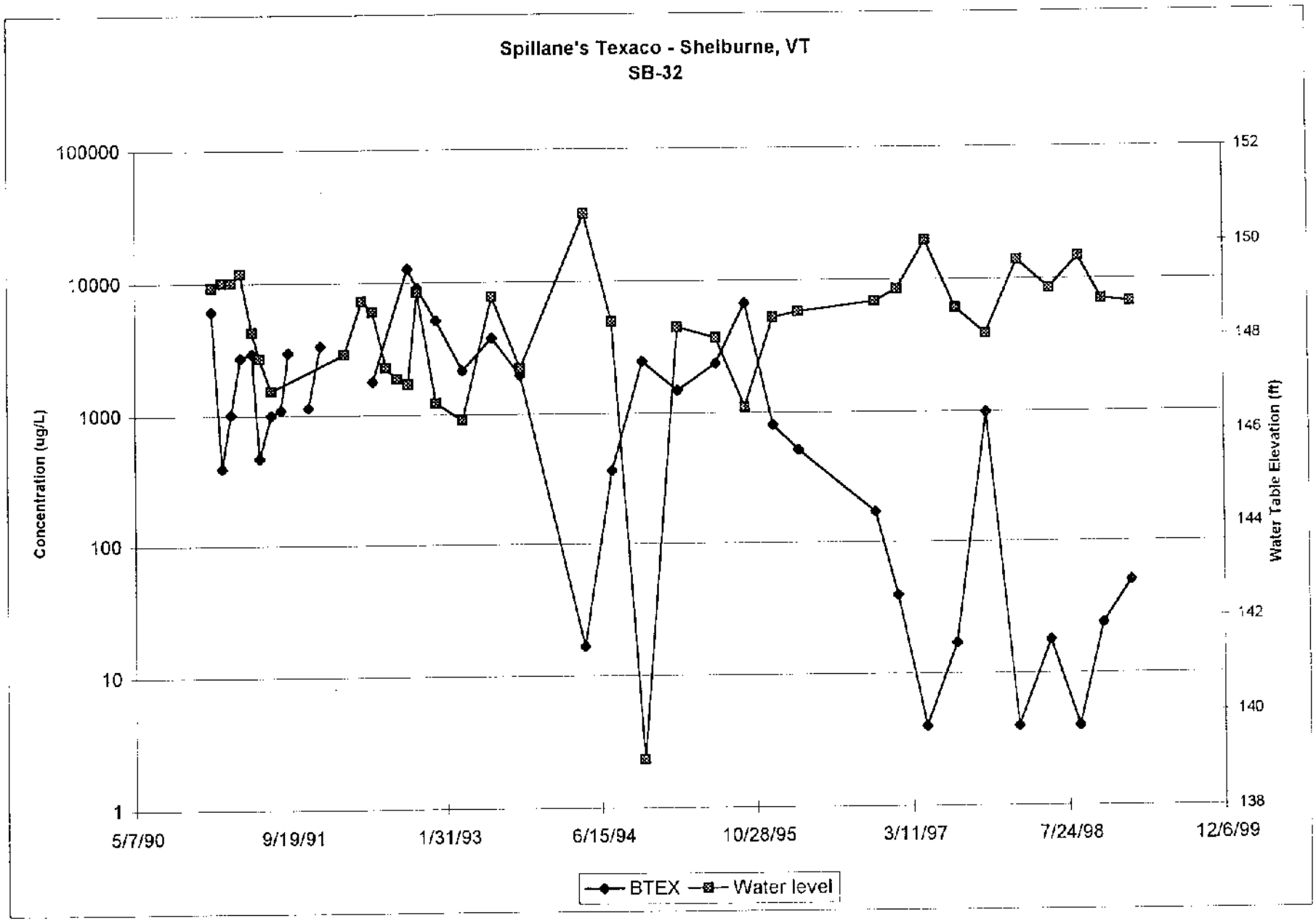

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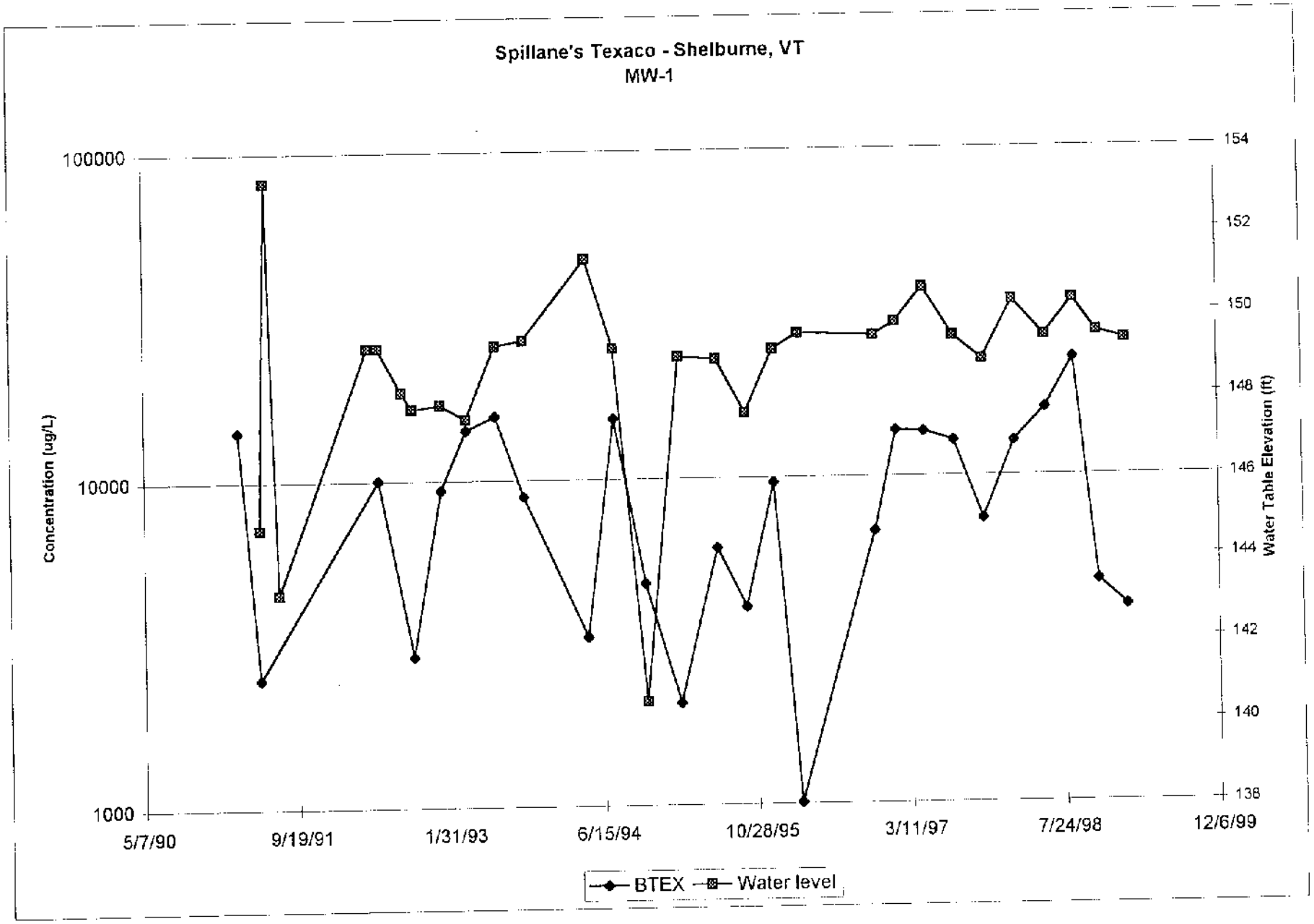

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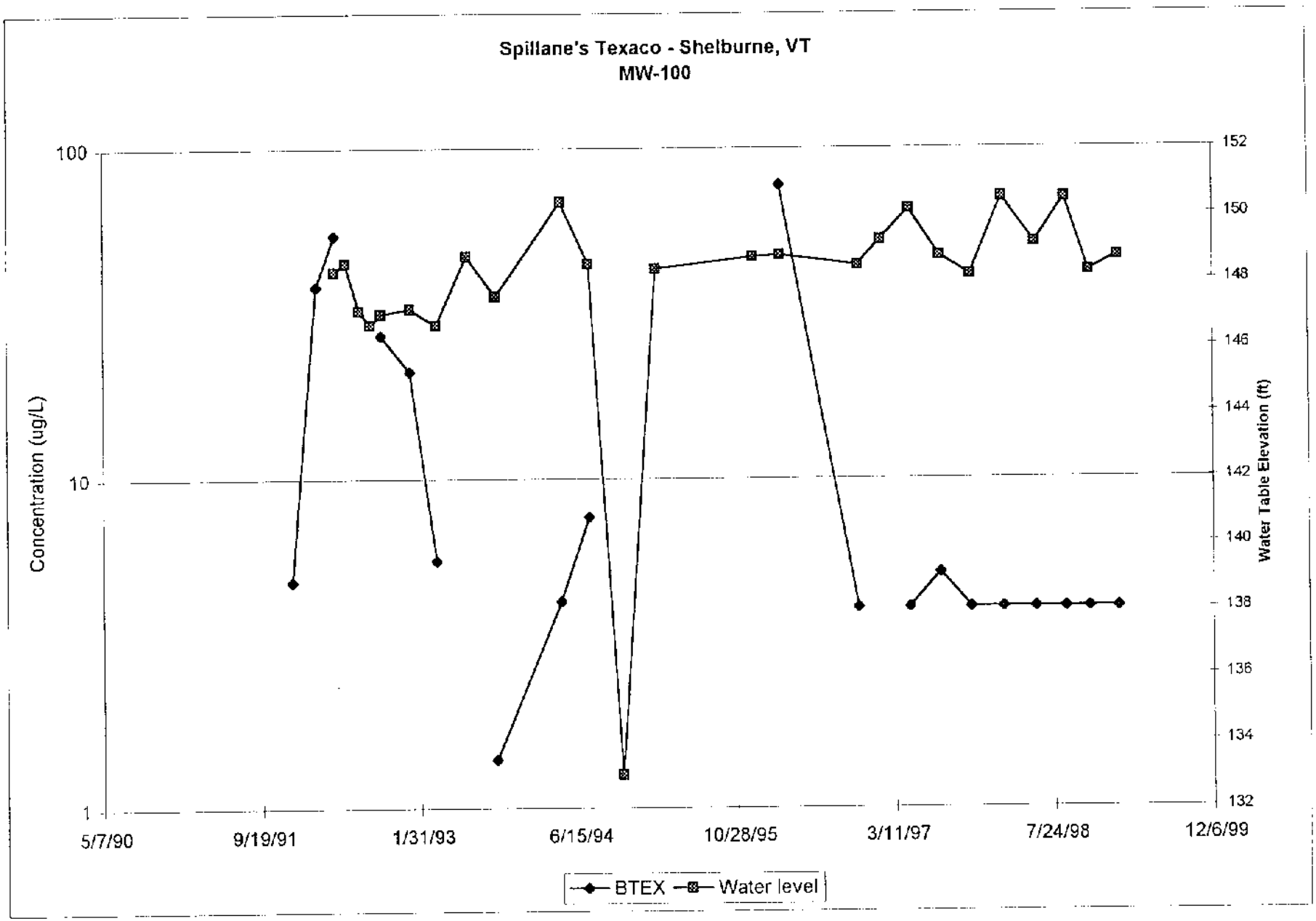

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ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Heindel & Noyes
PROJECT NAME: Spillanes/#93856.10
REPORT DATE: June 1, 1999
DATE SAMPLED: May 17, 1999

ORDER ID: 2407
REF.#: 138,708 - 138,736

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Chain of custody indicated sample preservation with HCl.

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times. All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method. Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Heindel & Noyes
PROJECT NAME: Spillanes/#93856.10
CLIENT PROJ. #: 93856.10T0

DATE RECEIVED: May 20, 1999
REPORT DATE: June 1, 1999
ORDER ID: 2407

Ref. #:	138,708	138,709	138,710	138,711	138,712
Site:	SB-6A	SB-11	SB-12	SB-13	SB-14
Date Sampled:	5/17/99	5/17/99	5/17/99	5/17/99	5/17/99
Time Sampled:	14:56	15:46	14:53	14:08	14:12
Sampler:	KB	KB	KB	KB	KB
Date Analyzed:	5/28/99	5/28/99	5/26/99	5/26/99	5/26/99
UIP Count:	>10	>10	0	0	0
Dil. Factor (%):	2	2	100	100	100
Surr % Rec. (%):	105	100	87	86	86
Parameter	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)
MTBE	<500	<500	25.4	<10	<10
Benzene	<50	TBQ <50	<1	<1	<1
Toluene	<50	1,270.	<1	<1	<1
Ethylbenzene	803.	774.	<1	<1	<1
Xylenes	3,490.	6,820.	<1	<1	<1
Chlorobenzene	<50	<50	<1	<1	<1
1,3-Dichlorobenzene	<50	<50	<1	<1	<1
1,4-Dichlorobenzene	<50	<50	<1	<1	<1
1,2-Dichlorobenzene	<50	<50	<1	<1	<1

Ref. #:	138,713	138,714	138,715	138,716	138,717
Site:	SB-15	SB-21	SB-23	SB-24	SB-25
Date Sampled:	5/17/99	5/17/99	5/17/99	5/17/99	5/17/99
Time Sampled:	17:33	15:51	15:55	12:02	14:27
Sampler:	KB	KB	KB	KB	KB
Date Analyzed:	5/26/99	5/26/99	5/26/99	5/27/99	5/26/99
UIP Count:	0	>10	0	>10	>10
Dil. Factor (%):	50	100	100	50	50
Surr % Rec. (%):	97	87	88	117	75
Parameter	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)
MTBE	<20	<10	<10	82.3	<20
Benzene	<2	3.3	<1	<2	18.3
Toluene	198.	6.4	<1	<2	10.8
Ethylbenzene	<2	6.3	<1	<2	79.4
Xylenes	<2	26.9	<1	14.2	170.
Chlorobenzene	<2	<1	<1	<2	<2
1,3-Dichlorobenzene	<2	<1	<1	<2	<2
1,4-Dichlorobenzene	<2	<1	<1	<2	<2
1,2-Dichlorobenzene	<2	<1	<1	<2	<2

Note: UIP = Unidentified Peaks TBQ = Trace Below Quantitation NI = Not Indicated

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Heindel & Noyes
PROJECT NAME: Spillanes/#93856.10
CLIENT PROJ. #: 93856.1010

DATE RECEIVED: May 20, 1999
REPORT DATE: June 1, 1999
ORDER ID: 2407

Ref. #:	138,718	138,719	138,720	138,721	138,722
Site:	SB-26	SB-27	SB-28	SB-29	SB-32
Date Sampled:	5/17/99	5/17/99	5/17/99	5/17/99	5/17/99
Time Sampled:	14:08	17:47	17:02	13:52	14:04
Sampler:	KB	KB	KB	KB	KB
Date Analyzed:	5/26/99	5/27/99	5/24/99	5/24/99	5/26/99
UIP Count:	0	>10	>10	4	0
Dil. Factor (%):	100	1	2	100	100
Surr % Rec. (%):	88	117	115	115	86
Parameter	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)
MTBE	<10	<1000	<100	15.0	<10
Benzene	<1	<100	261.	<1	<1
Toluene	<1	1,950.	1,000.	26.6	<1
Ethylbenzene	<1	2,170.	741.	14.6	<1
Xylenes	<1	13,100.	5,130.	66.0	<1
Chlorobenzene	<1	<100	<50	<1	<1
1,3-Dichlorobenzene	<1	<100	<50	<1	<1
1,4-Dichlorobenzene	<1	<100	<50	<1	<1
1,2-Dichlorobenzene	<1	<100	<50	<1	<1

Ref. #:	138,723	138,724	138,725	138,726	138,727
Site:	SB-33	SB-35	SB-40	MW-1	MW-100
Date Sampled:	5/17/99	5/17/99	5/17/99	5/17/99	5/17/99
Time Sampled:	14:20	14:13	16:01	15:47	17:38
Sampler:	KB	KB	KB	KB	KB
Date Analyzed:	5/27/99	5/27/99	5/28/99	5/25/99	5/28/99
UIP Count:	0	0	>10	8	0
Dil. Factor (%):	100	100	1	2	100
Surr % Rec. (%):	109	109	91	113	101
Parameter	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)
MTBE	<10	<10	<1000	<100	<10
Benzene	<1	<1	262.	<50	<1
Toluene	<1	<1	1,530.	2,900.	<1
Ethylbenzene	<1	<1	966.	617.	<1
Xylenes	<1	<1	5,550.	3,020.	<1
Chlorobenzene	<1	<1	<100	<50	<1
1,3-Dichlorobenzene	<1	<1	<100	<50	<1
1,4-Dichlorobenzene	<1	<1	<100	<50	<1
1,2-Dichlorobenzene	<1	<1	<100	<50	<1

Note: UIP = Unidentified Peaks TBQ = Trace Below Quantitation NI = Not Indicated

ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Heindel & Noyes
PROJECT NAME: Spillanes/#93856.10
CLIENT PROJ. #: 93856.10T0

DATE RECEIVED: May 20, 1999
REPORT DATE: June 1, 1999
ORDER ID: 2407

Ref. #:	138,728	138,729	138,730	138,731	138,732
Site:	MW-105	MW-110	MW-113	MW-114	CW-1
Date Sampled:	5/17/99	5/17/99	5/17/99	5/17/99	5/17/99
Time Sampled:	16:54	17:05	16:58	15:59	14:00
Sampler:	KB	KB	KB	KB	KB
Date Analyzed:	5/27/99	5/27/99	5/28/99	5/27/99	5/27/99
UIP Count:	6	>10	>10	7	0
Dil. Factor (%):	100	10	50	100	100
Surr % Rec. (%):	97	113	96	95	97
Parameter	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)
MTBE	<10	<100	<20	<10	<10
Benzene	<1	38.0	10.3	<1	<1
Toluene	<1	65.2	139.	<1	<1
Ethylbenzene	<1	78.8	49.3	3.2	<1
Xylenes	<1	703.	268.	11.7	<1
Chlorobenzene	<1	<10	<2	<1	<1
1,3-Dichlorobenzene	<1	<10	<2	<1	<1
1,4-Dichlorobenzene	<1	<10	<2	<1	<1
1,2-Dichlorobenzene	<1	<10	<2	<1	<1

Ref. #:	138,733	138,734	138,735	138,736	
Site:	CW-2	RW-1	Duplicate	Trip Blank	
Date Sampled:	5/17/99	5/17/99	5/17/99	5/17/99	
Time Sampled:	14:39	14:47	14:56	15:07	
Sampler:	KB	KB	KB	KB	
Date Analyzed:	5/28/99	5/27/99	5/28/99	5/28/99	
UIP Count:	>10	>10	>10	0	
Dil. Factor (%):	100	5	2	100	
Surr % Rec. (%):	93	97	105	103	
Parameter	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	
MTBE	<10	<200	<500	<10	
Benzene	1.4	<20	<50	<1	
Toluene	49.8	712.	TBQ <50	<1	
Ethylbenzene	10.3	547.	767.	<1	
Xylenes	26.7	3,240.	3,400.	<1	
Chlorobenzene	<1	<20	<50	<1	
1,3-Dichlorobenzene	<1	<20	<50	<1	
1,4-Dichlorobenzene	<1	<20	<50	<1	
1,2-Dichlorobenzene	<1	<20	<50	<1	

Note: UIP = Unidentified Peaks TBQ = Trace Below Quantitation NI = Not Indicated

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2407 1 of 3 01134

CHAIN-OF-CUSTODY RECORD

93856.10 Task D

Project Name: Spillanes/Shelburne Site Location: Shelburne VT	Reporting Address: Heindel + Noyes	Billing Address: H+N
Endyne Project Number: 2407	Company: H + N Contact Name/Phone #: Don Bo[illegible] 658-0826	Sampler Name: K. Brooks Phone #: 658-0826

Lab #	Sample Location	Matrix	GRAB	COMP	Date/Time 5/17/99	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
138708	SB-6A	GW	X		1456	3	40ml		602	HCl	
138709	-11				1546						
138710	-12				1453						
138711	-13				1408						
138712	-14				1412						
138713	-15				1733						
138714	-21				1551						
138715	-23				1555						
138716	-24				1202						
138717	-25				1427						
138718	-26				1408						
138719	-27				1347						

Relinquished by: Signature Kim Brooks	Received by: Signature [illegible]	Date/Time [illegible]
Relinquished by: Signature	Received by: Signature	Date/Time

New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify)	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pest/PCB
4	Nitrite N	9	BOD_5	14	Turbidity	19	BTEX	24	EPA 608 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (Specify):										

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93856.10 Task 0

20'

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31135

CHAIN-OF-CUSTODY RECORD

Project Name: Spillanes / Shelburne Site Location: Shelburne VT	Reporting Address: Heindel + Noyes	Billing Address: H+N
Endyne Project Number: 2407	Company: H+N Contact Name/Phone #: Dori B[illegible]ton 658-0820	Sampler Name: K. Brooks Phone #: 658-0820

Lab #	Sample Location	Matrix	GRAB	COMP	Date/Time 5/17/99	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
138720	SB-28	GW	X		1702		40 ml		8260	HCl	
138721	-29				1352						
138722	-32				1404				602		
138723	-33				1420						
~~138724~~	~~-34~~										KWB
138724	-35				1413						
138725	-40				1601						
138726	MW-1				1547				8260		
138727	-100				1738				602		
138728	-105				1654						
138729	-110				1705						
138730	-113				1658						

Relinquished by: Signature Kevin Brooks	Received by: Signature [illegible]	Date/Time [illegible]
Relinquished by: Signature	Received by: Signature	Date/Time

New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify)	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pest/PCB
4	Nitrite N	9	BOD_5	14	Turbidity	19	BTEX	24	EPA 608 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (Specify):										

2-

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31136

CHAIN-OF-CUSTODY RECORD

#93856.10 Task 0

Project Name: Spillanes / Shelburne Site Location: Shelburne, VT	Reporting Address: Heindel & Noyes	Billing Address: H+N
Endyne Project Number: 2407	Company: H+N Contact Name/Phone #: Dori Barron 658-0820	Sampler Name: K. Brooks Phone #: 658-0820

Lab #	Sample Location	Matrix	GRAB	COMP	Date/Time 5/17/99	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
138731	MW-114	GW	x		1559	2	40		602	HCl	
138732	CW-1				1400						
138733	CW-2				1439						
138734	RW-1				1447						
138735	Duplicate (MW-6A)				1456						
138736	Trip Blank				1507						

Relinquished by: Signature Kevin Brooks	Received by: Signature [illegible]	Date/Time [illegible]
Relinquished by: Signature	Received by: Signature	Date/Time

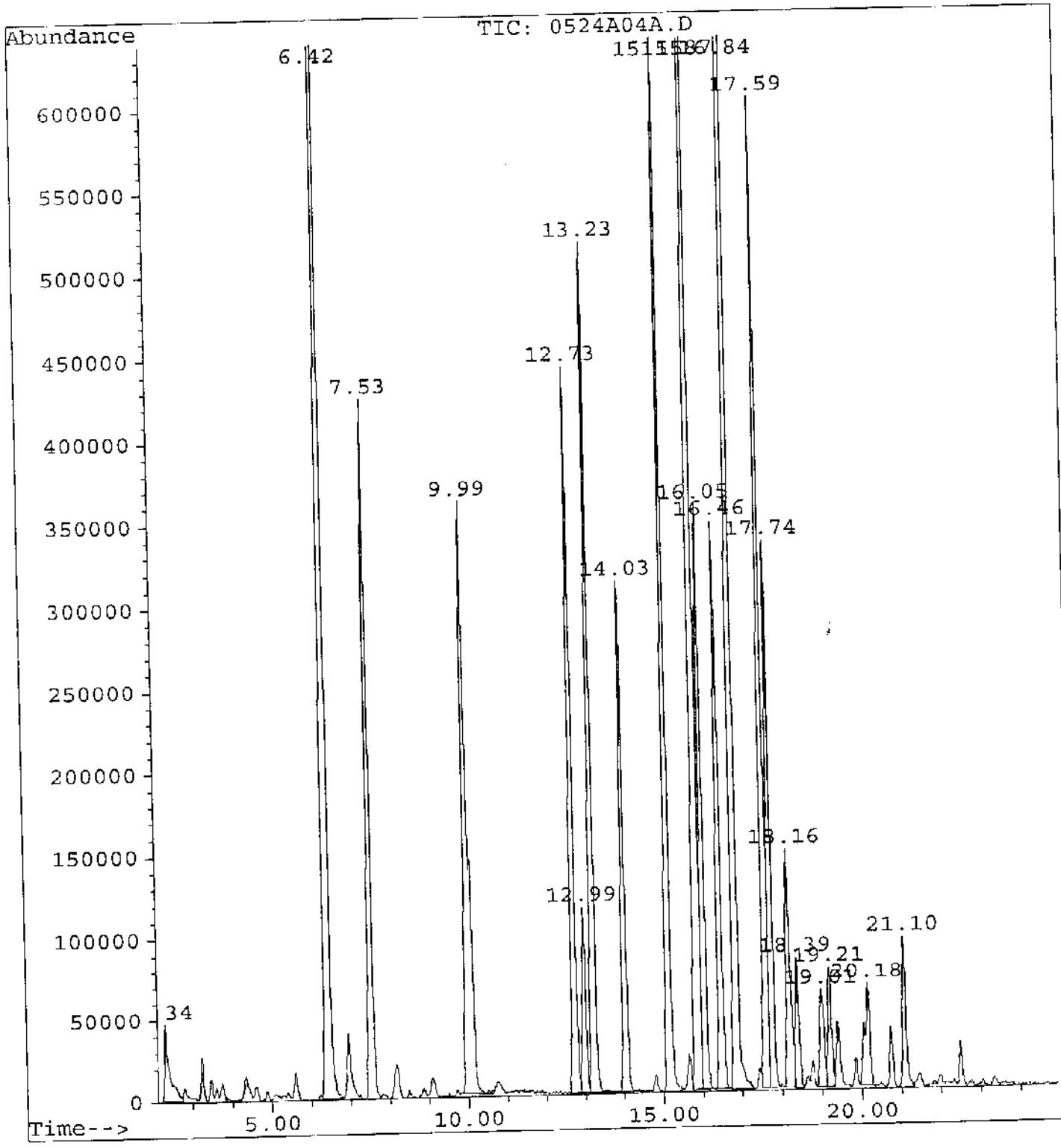
New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify)	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pest/PCB
4	Nitrite N	9	BOD_5	14	Turbidity	19	BTEX	24	EPA 608 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (Specify):										

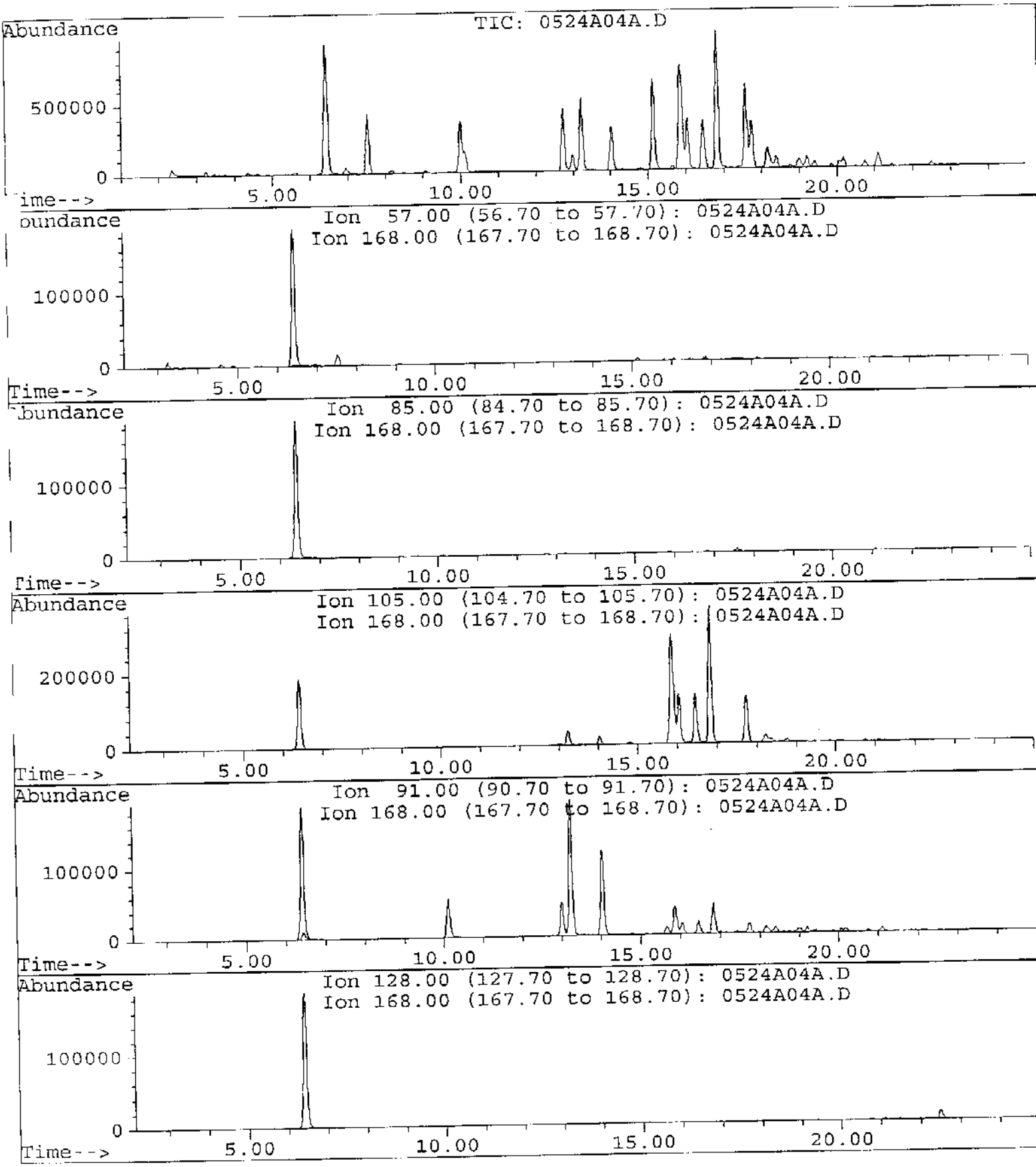
File : 0524A04A.D
Sample Name : 138720 2%
Current Method: 826-0517.M
Instrument : MS_5970
Acquired : 24 May 99 11:35 am
Date of report: 06/01/99
Operator : mlf

SB-28



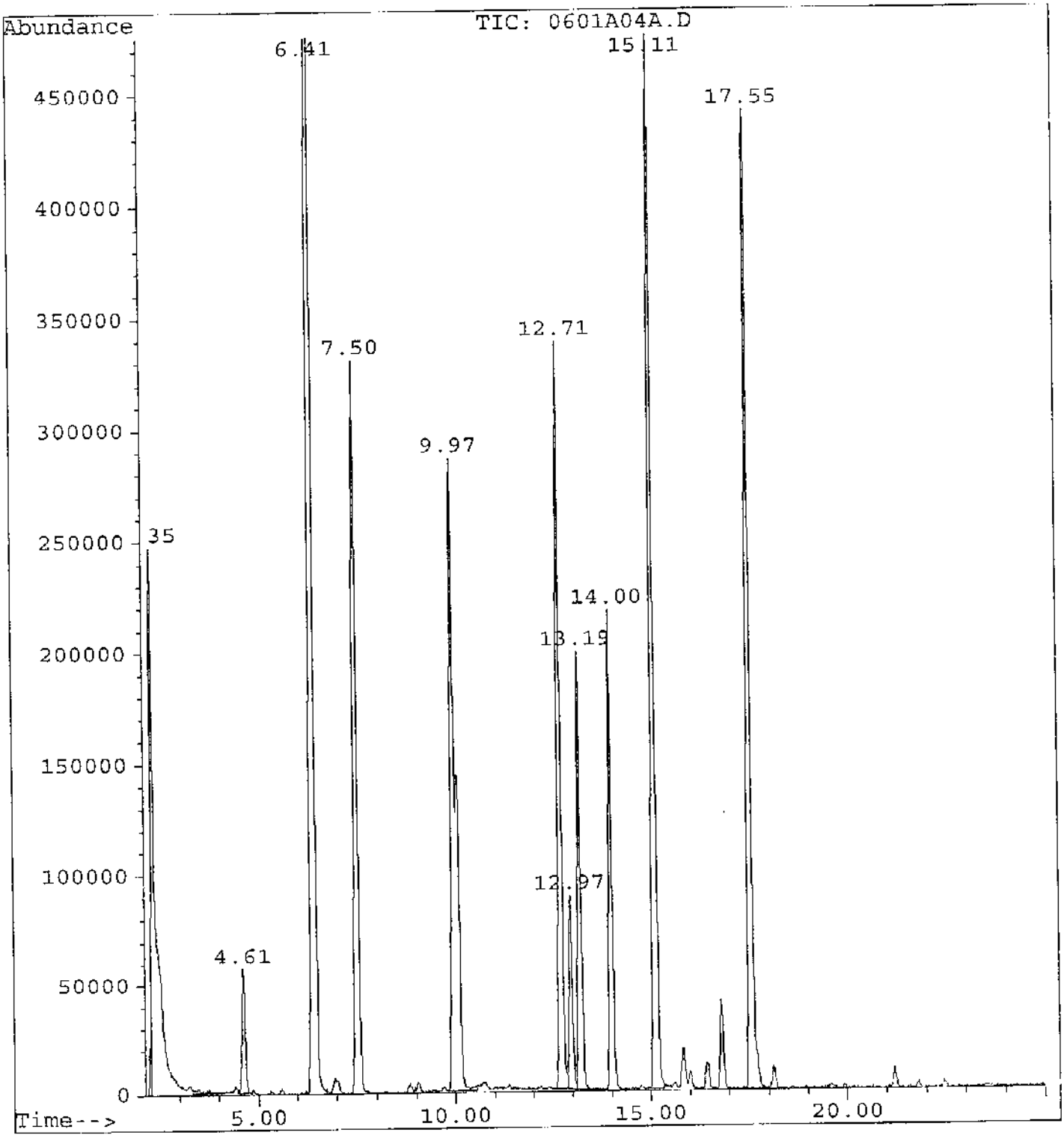
File : 0524A04A.D
Sample Name : 138720 2%
Current Method: 826-0517.M
Instrument : MS_5970
Acquired : 24 May 99 11:35 am
Date of report: 06/01/99

SB-28



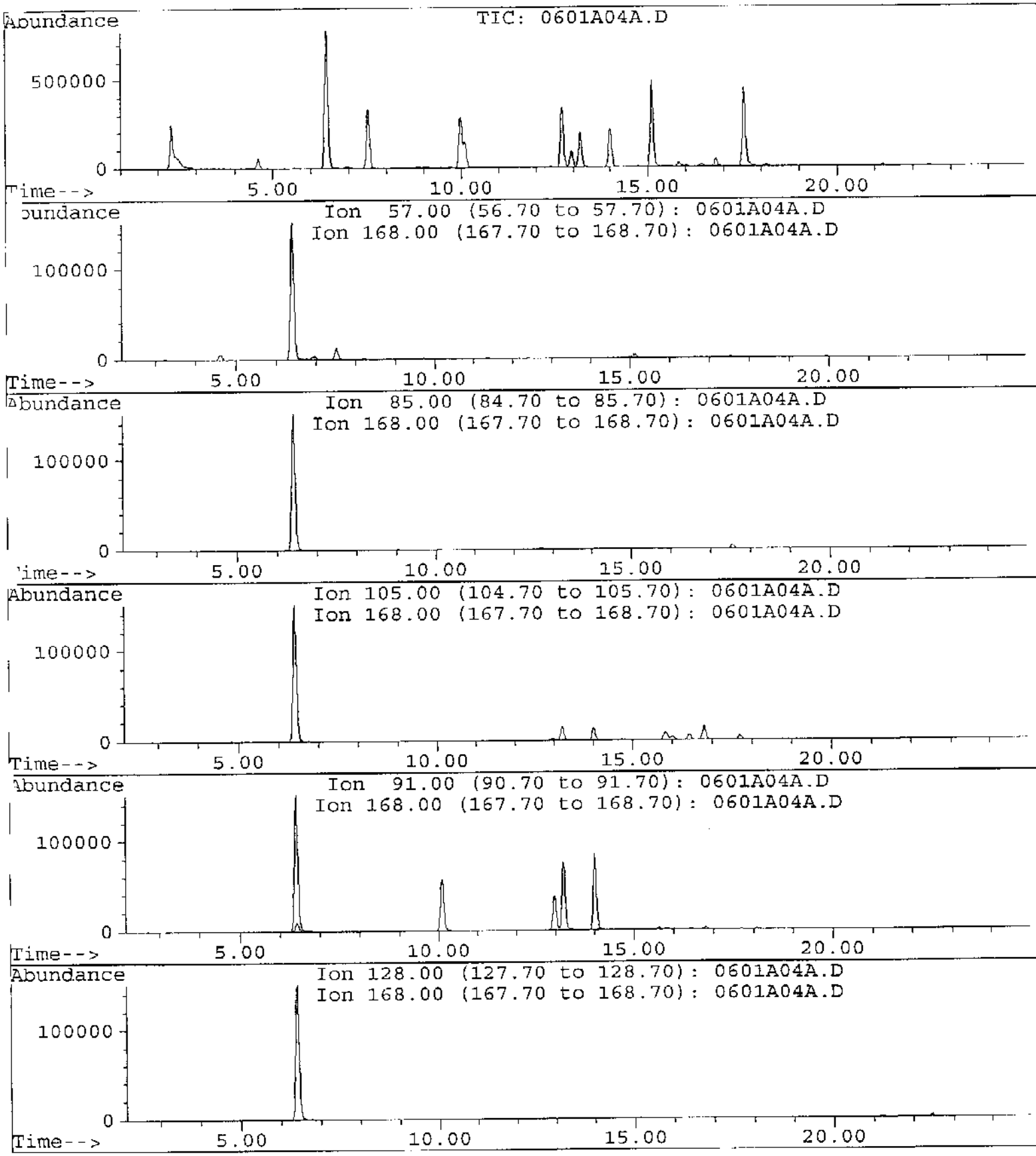
File : 0601A04A.D
Sample Name : 138721 100%
Current Method: 826-0517.M
Instrument : MS_5970
Acquired : 1 Jun 99 11:22 am
Date of report: 06/01/99
Operator : EP

SB-29



File : 0601A04A.D
Sample Name : 138721 100%
Current Method: 826-0517.M
Instrument : MS_5970
Acquired : 1 Jun 99 11:22 am
Date of report: 06/01/99

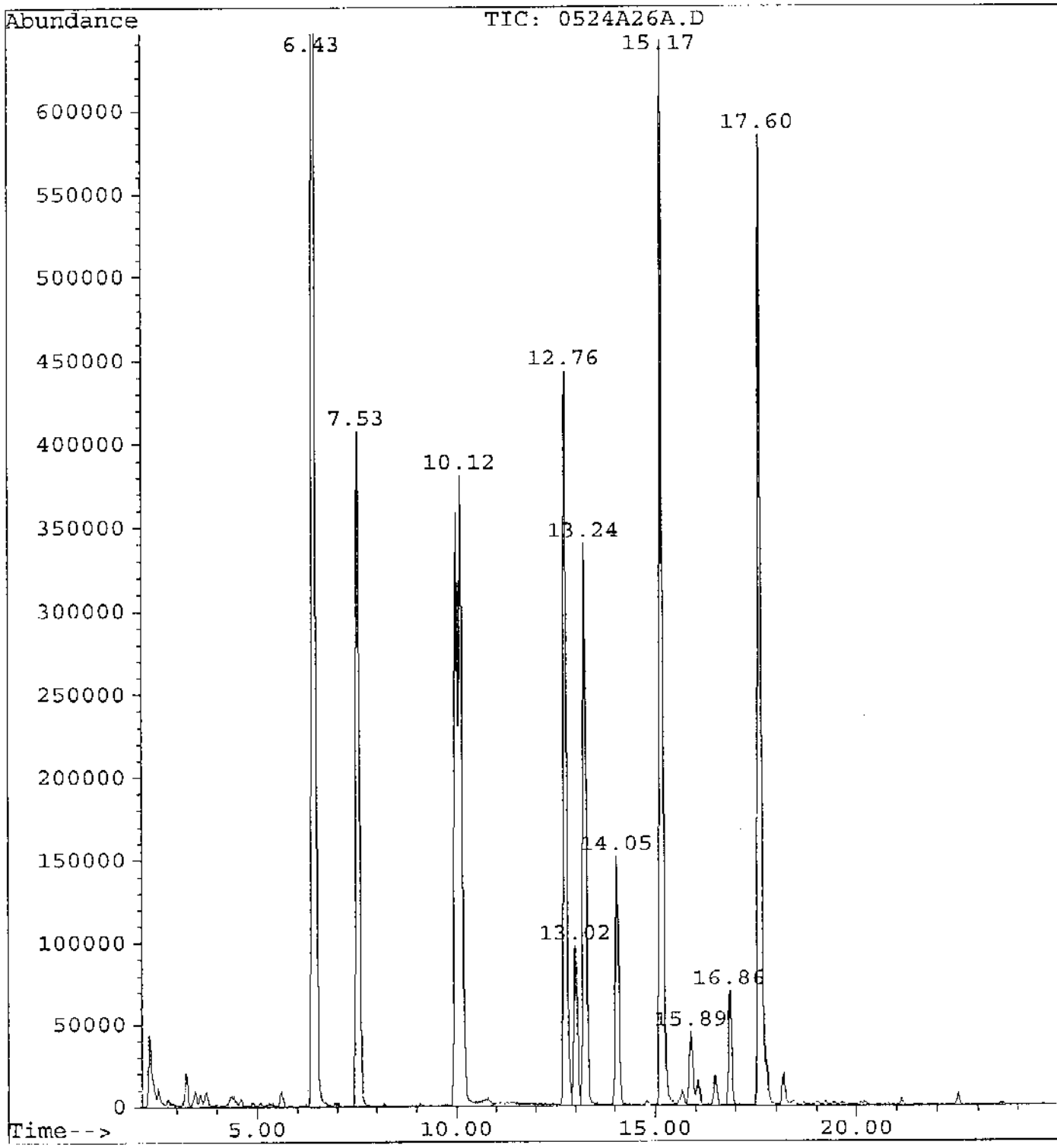
SB-29



2-1

File : 0524A26A.D
Sample Name : 138726 2%
Current Method: 826-0517.M
Instrument : MS_5970
Acquired : 25 May 99 4:21 am
Date of report: 06/01/99
Operator : mlf

MW-1



ile : 0524A26A.D
Sample Name : 138726 2%
Current Method: 826-0517.M
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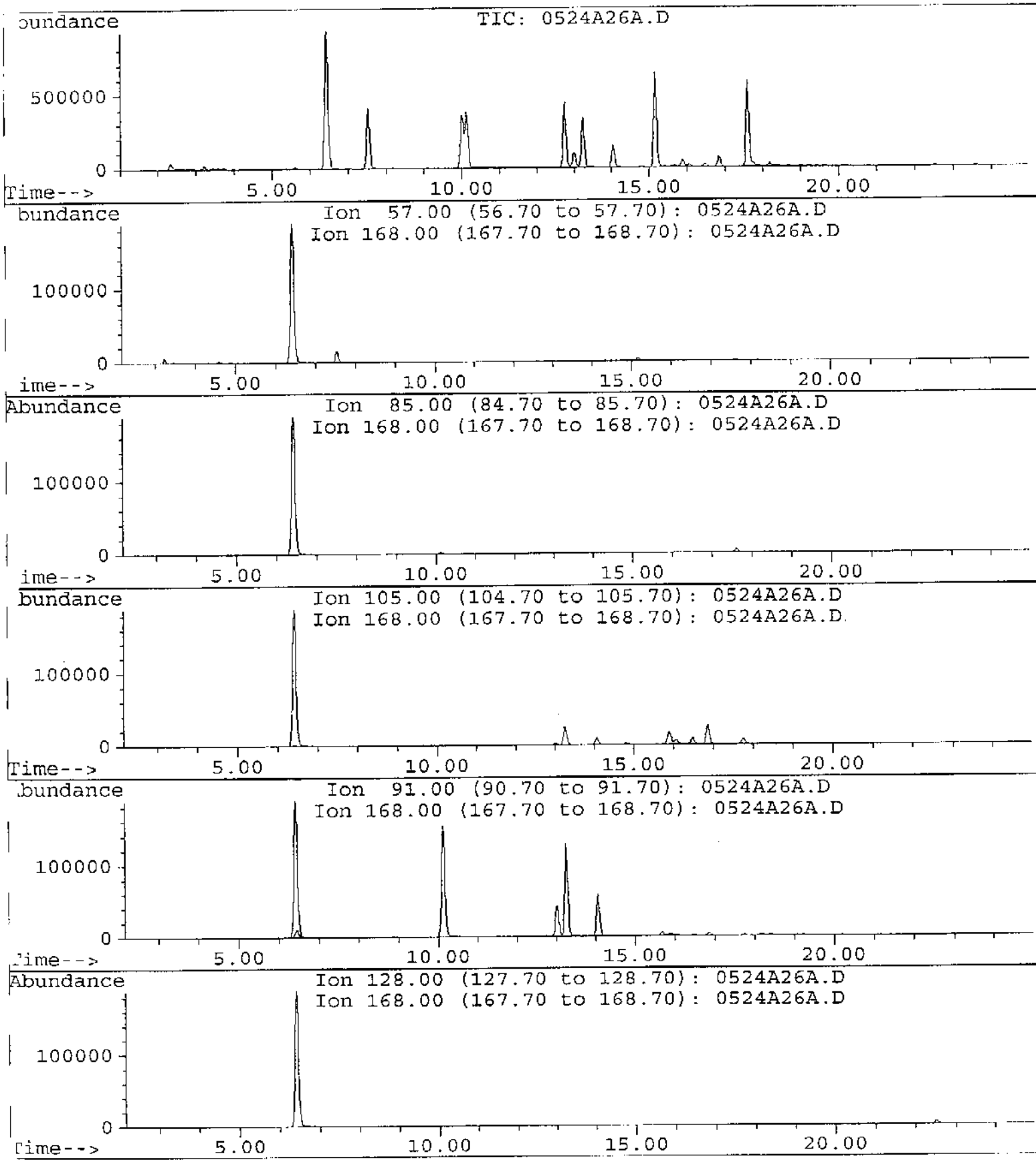
Acquired : 25 May 99 4:21 am
Date of report: 06/01/99

MW-1