B U C K
ENVIRONMENTAL LABORATORIES, INC.
accredited environmental analysis

Note:

This Annual Report has been reproduced without the 38 pages of analytical laboratory reports. The results of these reports are included in the summary on the two page spreadsheet titled "SCM Site, Town of Cortlandville, Historical TCE, Total VOC."

January 10, 2003

Kevin Delaney, P.E.
Environmental Engineer I
Division of Environmental Remediation
NYS Department of Environmental Conservation
615 Erie Boulevard West
Syracuse, NY 13204

Re: SCM Site - Town of Cortlandville - 2002 Annual Report

Dear Kevin:

This report will summarize the remediation activities at the subject site during the year 2002 and is submitted in support of the consent agreement between SCM and NYSDEC. As reported in previous correspondence, the property is owned by S.C.W.P., LLC and this report is submitted at the direction of Michael Chernago, the S.C.W.P., LLC on-site representative.

In your letter of May 10, 2001, S.C.W.P., LLC was advised that the blower to the air stripper could be shut off if three conditions were met. Two of these stipulations were that groundwater still be treated through the air stripper and that the blowers (primary and back-up) remain in operating order. The third condition required monthly sampling of influent and effluent samples with effluent results below the 5 ug/l regulatory limit. System performance samples have been taken on a monthly basis since May 2001 per your directive. Results have been graphed since the start of this remediation project and trendlines have been added to the current graphs. These graphs follow this narrative.

There have been twenty such sampling events of the performance samples. In your above cited letter, item 3) addressed the frequency of sampling and went on to say that S.C.W.P. could petition for a return to quarterly sampling if supporting data showed adequate treatment without blower usage. At no time since the discontinuance of the blower has the concentration of TCE at the outfall at the cascade exceeded 5 ug/l, the average for 2002 being 2 ug/l. We believe that sufficient data has been accumulated to document that treatment through the air stripper is adequate without the blower. We request permission to reduce the sampling to quarterly for the year 2003.

During the year 2002, Buck Environmental Laboratories, Inc. (BEL) was advised by Mike Chernago on two occasions that the remediation system at S.C.W.P., LLC had been shut down. The first such occurrence was August 16 through August 20. Routine maintenance and scarification of the lagoons took place. The second occurrence was the period from October 14 through October 31. The gate valves at the lagoons had not been functioning properly and were rebuilt at that time. New grouting was completed at the site and lime deposits were removed. Both maintenance shutdowns are consistent with historical practices. The average pumping rate for the year was calculated to be approximately 710 gpm. Meter readings indicate that at least 363 million gallons of water were pumped and treated during 2002.

Seventeen monitoring wells were sampled November 14, 2002 and analyzed for volatile organic contaminants. An eighteenth well was unable to be sampled due to a blockage. Seven of the wells have TCE concentrations in excess of the 5 ug/l groundwater standard. Of the ten wells meeting the standard, three of the wells were non-detect for all volatile compounds. The laboratory reports follow and data are summarized along with historical results on an enclosed spreadsheet entitled ***SCM Site, Historical TCE, Total VOC***. The three wells with the highest total VOC concentrations are MW-12S (46.2 ug/l), MW-10S (20.7 ug/l) and MW-6 (15.4 ug/l).

Please let me know if there are any questions concerning this report or the data presented.

Sincerely,

John H. Buck, P.E.
President

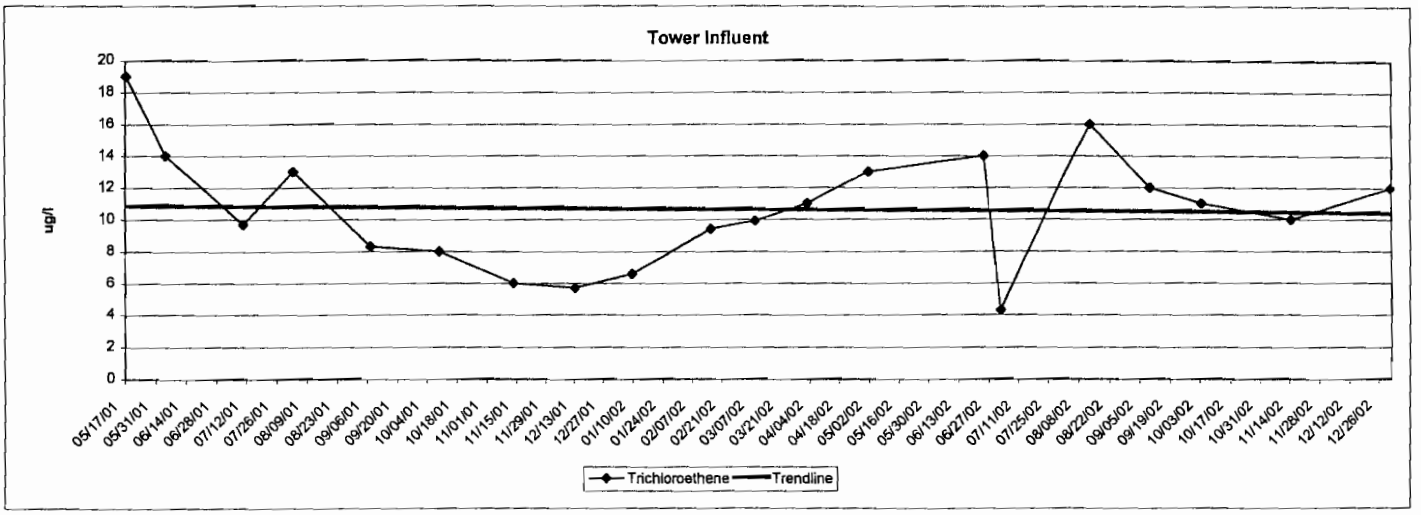
Attachments:
Graphs
Spreadsheet
Lab reports

CC:
K. Ochs (SCWP)
J. Sidd, Esq. (RS&S)
M. Chernago (SCWP)
J. Helgren (CCHD)
P. Reidy (CCS&W)

2002 Annual Report
Charts with Trendlines

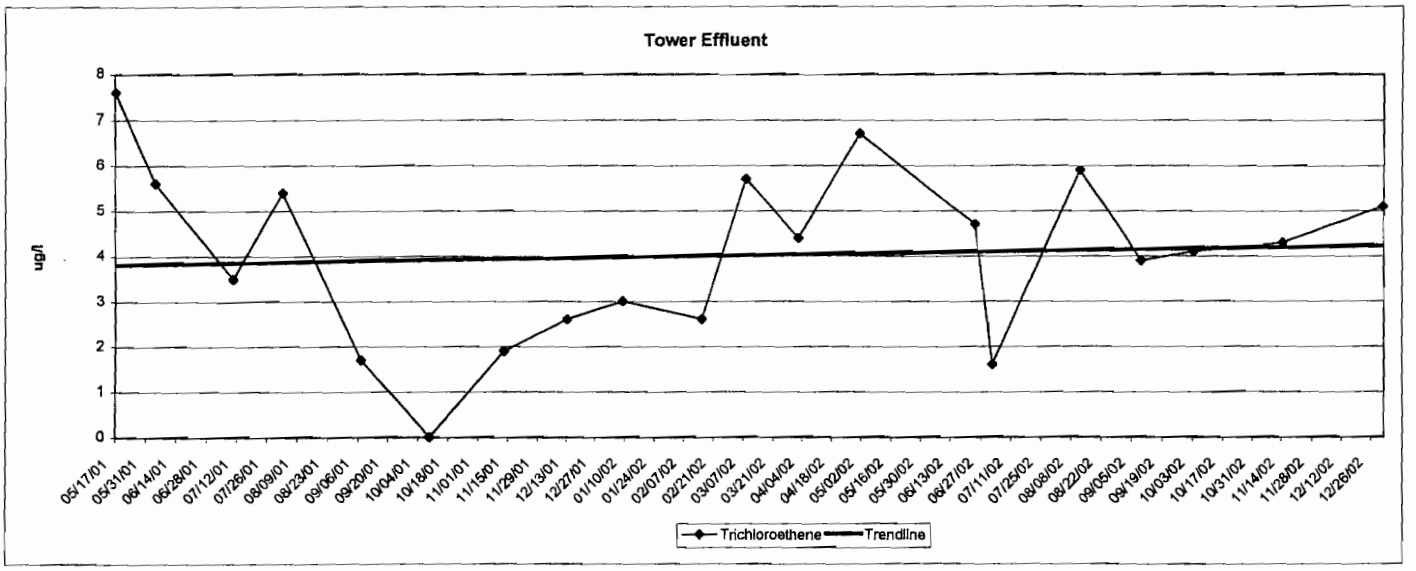
Tower Influent

	May-01	Jun-01	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02
Trichloroethene	19	14	9.7	13	8.3	8.0	6.0	5.7	6.6	9.4	9.9	11.0	13.0	14.0	4.3	16.0	12.0	11.0	10.0	12.0



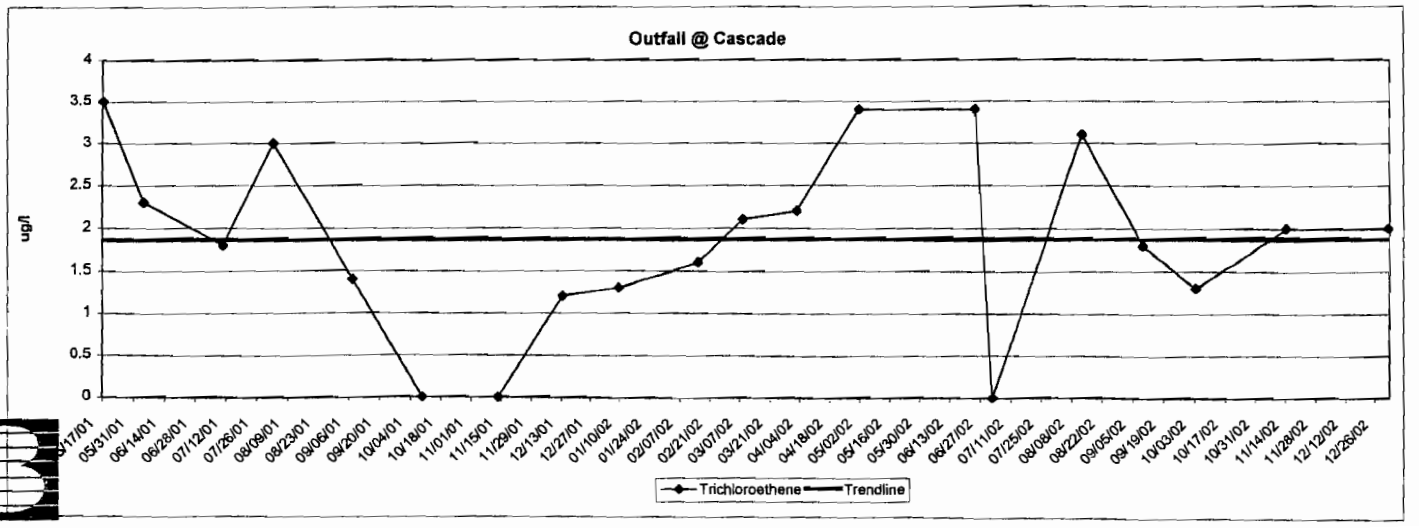
Tower Effluent

	May-01	Jun-01	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02
Trichloroethene	7.6	5.6	3.5	5.4	1.7	<1	1.9	2.6	3.0	2.6	5.7	4.4	6.7	4.7	1.6	5.9	3.9	4.1	4.3	5.1



Outfall @ Bottom of Cascade

	May-01	Jun-01	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01	Dec-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02
Trichloroethene	3.5	2.3	1.8	3.0	1.4	<1	<1	1.2	1.3	1.6	2.1	2.2	3.4	3.4	ND<1	3.1	1.8	1.3	2.0	2.0



SCM SITE
Town of Cortlandville
Historical TCE, Total VOC
(ug/l in groundwater)

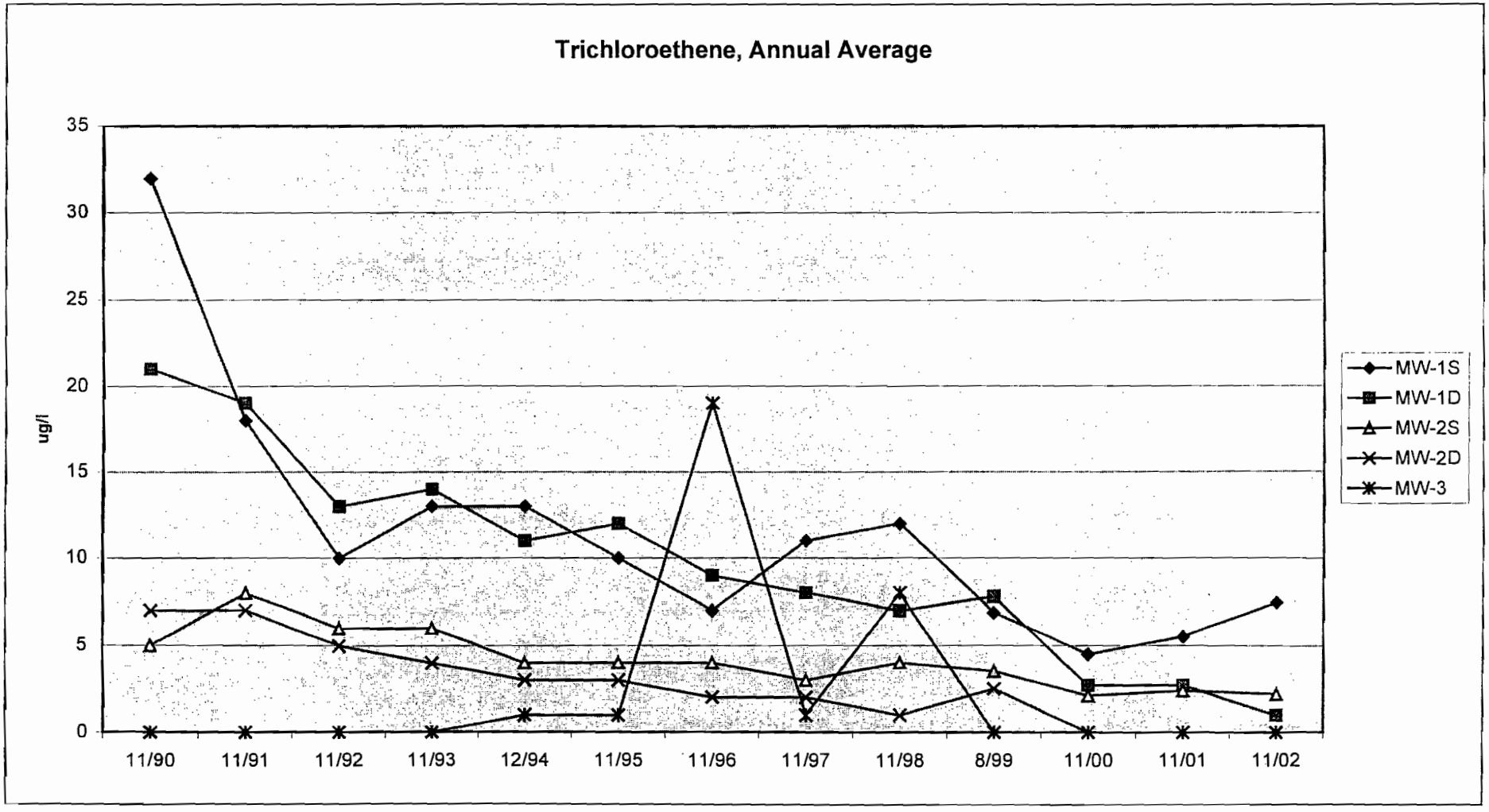
	2/90	4/90	8/90	11/90	2/91	5/91	8/91	11/91	2/92	5/92	8/92	11/92	2/93	5/93	8/93	11/93	2/94	6/94	9/94	12/94	2/95	5/95	11/95	5/96	11/96	5/97	11/97	5/98	11/98	8/99	11/00	11/01	11/02
-1S																																	
TCE	<1	39	47	41	25	17	19	12	9	13	15	2	11	26	3	13	7	19	13	9	11	8	11	5	8	10	11	15	8	6.9	4.5	5.5	7.5
TCE Yearly Ave.				32				18				10				13				13			10		7		11		12	6.9	4.5	5.5	7.5
Total VOC's	<1	39	47	41	25	21	23	13	9	15	17	2	13	34	3	13	7	22	15	9	13	8	11	5	8	10	11	16	8	6.9	4.5	5.5	7.5
Tot. VOC Yearly Ave.				32				21				11				16				13			11		7		11		12	6.9	4.5	5.5	7.5
-1D																																	
TCE	32	28	<1	25	25	18	19	12	13	13	14	13	14	13	12	16	12	13	9	11	12	12	13	7	10	7	8	7	7	7.8	2.7	2.7	1
TCE Yearly Ave.				21				19				13				14				11			12		9		8		7	7.8	2.7	2.7	1
Total VOC's	32	28	<1	25	25	24	24	12	13	14	16	15	16	16	115	17	13	13	10	13	14	14	13	7	11	7	8	7	7	7.8	2.7	2.7	2.7
Tot. VOC Yearly Ave.				21				21				15				16				12			14		9		8		7	7.8	2.7	2.7	2.7
-2S																																	
TCE	4	5	5	6	8	6	8	10	5	7	5	5	5	7	7	4	4	4	3	4	4	4	na	4	na	3	na	4	na	3.5	2.1	2.4	2.2
TCE Yearly Ave.				5				8				6				6				4			4		4		3		4	3.5	2.1	2.4	2.2
Total VOC's	4	5	5	6	8	6	8	12	5	7	8	5	5	7	7	4	4	4	3	4	4	4	na	4	na	3	na	4	na	3.5	2.1	2.4	2.2
Tot. VOC Yearly Ave.				5				9				6				6				4			3		4		3		4	3.5	2.1	2.4	2.2
-2D																																	
TCE	6	6	9	8	7	5	7	9	5	5	5	5	3	4	6	3	3	2	3	2	2	3	na	2	na	2	na	1	na	2.5	plugged	plugged	plugged
TCE Yearly Ave.				7				7				5				4				3			2		2		2		1	2.5	plugged	plugged	plugged
Total VOC's	6	6	9	8	7	5	7	10	5	5	5	5	3	4	6	3	3	2	6	2	2	3	na	2	na	2	na	1	na	2.5	plugged	plugged	plugged
Tot. VOC Yearly Ave.				7				7				5				4				3			2		2		2		1	2.5	plugged	plugged	plugged
-3																																	
TCE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	4	<1	<1	<1	<1	na	19	na	2	<1	8	na	<1	<1	<1	<1
TCE Yearly Ave.				0				0				0				0				1			1		19		1		8	<1	<1	<1	<1
Total VOC's	<1	<1	<1	<	<1	<1	<1	<1	<1	<1	<1	2	1	<1	<1	<1	<1	4	<1	<1	<1	<1	na	33	na	2	<1	12	na	<1	<1	<1	<1
Tot. VOC Yearly Ave.				0				0				1				0				1			0		33		1		12	<1	<1	<1	<1
-4S																																	
TCE	<1	1	<1	2	<1	1	2	1	<1	1	1	1	<1	1	<1	<1	na	<1	<1	<1	<1	1	na	<1	na	<1	na	<1	na	<1	<1	<1	<1
TCE Yearly Ave.				1				1				1				0				0			1		0		0		0	<1	<1	<1	<1
Total VOC's	<1	1	<1	2	<1	1	2	1	<1	1	1	1	<1	1	<1	<1	na	<1	<1	<1	<1	1	na	<1	na	<1	na	<1	na	<1	<1	<1	<1
Tot. VOC Yearly Ave.				1				1				1				0				0			0		0		0		0	<1	<1	<1	<1
-4D																																	
TCE	<1	1	1	<1	1	<1	1	1	<1	<1	<1	<1	<1	<1	<1	<1	na	<1	<1	<1	<1	<1	na	<1	na	<1	na	<1	na	<1	<1	<1	<1
TCE Yearly Ave.				1				1				0				0				0			1		0		0		0	<1	<1	<1	<1
Total VOC's	<1	1	1	<1	1	<1	1	1	<1	<1	<1	<1	<1	<1	<1	<1	na	<1	<1	<1	<1	<1	na	<1	na	<1	na	<1	na	<1	<1	<1	<1
Tot. VOC Yearly Ave.				1				1				0				0				0			0		0		0		0	<1	<1	<1	<1
-5S																																	
TCE	1	1	2	3	<1	1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	na	<1	na	<1	na	<1	na	<1	<1	<1	1
TCE Yearly Ave.				2				1				0				0				0			1		0		0		0	<1	<1	<1	1
Total VOC's	1	1	3	3	<1	1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	na	<1	na	<1	na	<1	na	<1	<1	<1	2.1
Tot. VOC Yearly Ave.				2				1				0				0				0			0		0		0		0	<1	<1	<1	2.1
-5D																																	
TCE	2	3	3	5	3	3	3	1	<1	1	2	1	<1	2	2	<1	<1	<1	<1	<1	<1	1	na	2	na	2	na	<1	na	<1	<1	<1	1
TCE Yearly Ave.				3				3				1				1				0			1		2		2		<1	<1	<1	<1	1
Total VOC's	2	3	8	5	3	3	3	1	<1	1	2	1	<1	2	2	<1	<1	<1	<1	<1	<1	2	na	2	na	2	na	<1	na	<1	<1	<1	2.3
Tot. VOC Yearly Ave.				5				3				1				1				0			1		2		2		<1	<1	<1	<1	2.3
TCE	na	26	43	35	38	62	8	na	18	30	40	21	21	70	32	19	45	50	20	17	18	14	7	34	14	18	7	<1	10	5	11	3.9	14
TCE Yearly Ave.				35				36				27				36				33			13		24		13		5	5	11	3.9	14
Total VOC's	na	26	43	35	38	62	8	na	18	30	40	21	21	70	32	19	45	50	20	17	18	14	7	34	14	18	7	<1	10	5	11	3.9	15.4
Tot. VOC Yearly Ave.				26				27				27				36				33			13		24		13		5	5	11	3.9	15.4
TCE	290	300	19	63	190	57	19	na	11	57	130	130	120	67	25	18	85	60	49	49	45	23	na	56	na	25	na	26	na	24	24	12	4
TCE Yearly Ave.				168				89				82				58				61			34		56		25		26	24	24	12	4
Total VOC's	290	300	19	63	190	157	30	na	15	167	250	250	175	136	25	19	137	153	84	82	84	25	na	73	na	35	na	39	na	31	30	23.2	5.2
Tot. VOC Yearly Ave.				168				94				171				89				114			55		73		35		39	31	30	23.2	5.2
TCE	70	260	10	48	31	110	8	3	31	31	48	16	12	14	18	10	61	11	10	12	9	8	3	98	6	8	2	10	3	2	1.5	<1	1.7
TCE Yearly Ave.				97				38				32				14				24			7		52		5		7	2	1.5	<1	1.7
Total VOC's	70	283	10	48	31	110	8	3	31	31	48	16	12	14	18	10	61	11	10	12	9	8	3	98	6	8	2	10	3	2	1.5	<1	1.7
Tot. VOC Yearly Ave.				103				38				32				14				24			7		52		5		7	2	1.5	<1	1.7

SCM SITE
Town of Cortlandville
Historical TCE, Total VOC
(ug/l in groundwater)

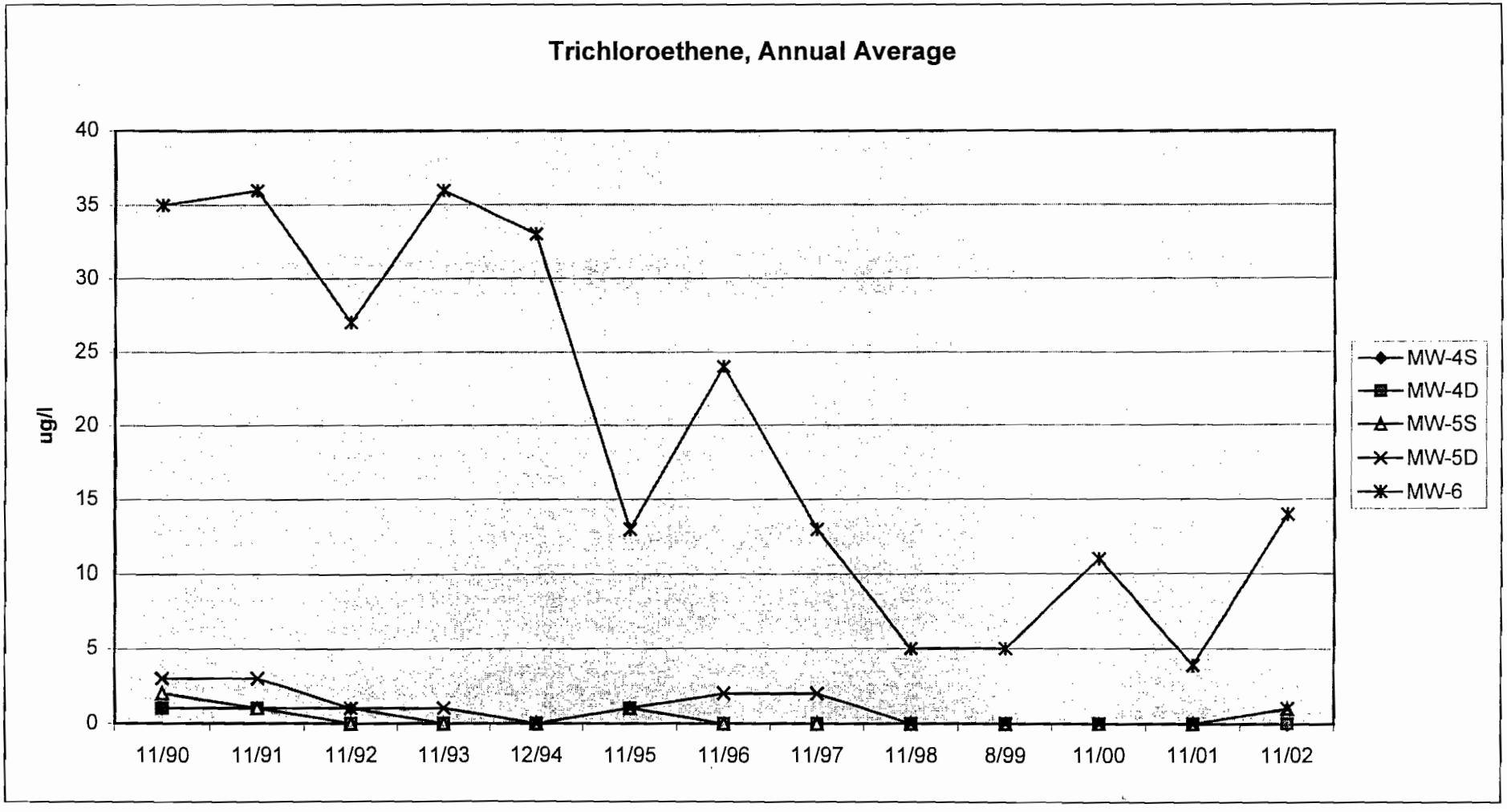
	2/90	4/90	8/90	11/90	2/91	5/91	8/91	11/91	2/92	5/92	8/92	11/92	2/93	5/93	8/93	11/93	2/94	6/94	9/94	12/94	2/95	5/95	11/95	5/96	11/96	5/97	11/97	5/98	11/98	8/99	11/00	11/01	11/02
-9																																	
TCE	16	3	5	10	4	11	3	4	3	3	4	4	4	33	8	1	2	24	5	3	5	5	<1	18	2	1	<1	<1	5	7	5.2	4.2	5.2
TCE Yearly Ave.				9				6				4				12				9			3		10		1		3	7	5.2	4.2	5.2
Total VOC's	16	4	5	10	4	14	3	4	3	3	4	4	4	42	8	1	2	24	5	3	5	5	<1	22	2	1	<1	<1	5	7	5.2	4.2	5.2
Tot. VOC Yearly Ave.				9				6				4				14				9			3		12		1		3	7	5.2	4.2	5.2
-10S																																	
TCE	73	63	110	59	63	27	32	50	44	170	40	32	26	25	37	27	28	31	24	15	16	16	23	17	18	13	13	15	19	16	17	9.4	19
TCE Yearly Ave.				76				43				72				29				25			18		18		13		18	16	17	9.4	19
Total VOC's	73	63	110	59	110	33	44	62	57	228	46	37	29	32	37	31	31	31	27	16	17	18	25	18	20	13	13	17	19	17	17	9.4	20.7
Tot. VOC Yearly Ave.				76				62				92				32				26			20		19		13		18	17	17	9.4	20.7
-10D																																	
TCE	23	27	33	60	33	54	31	40	30	10	41	37	32	19	32	25	21	21	22	22	30	23	19	10	16	12	18	10	20	13	11	8.4	7
TCE Yearly Ave.				36				40				30				27				23			24		13		15		15	13	11	8.4	7
Total VOC's	23	27	33	60	33	66	39	45	35	12	46	43	36	21	32	28	22	21	25	24	32	26	19	10	16	12	18	10	20	13	11	8.4	7
Tot. VOC Yearly Ave.				36				46				34				29				23			26		13		15		15	13	11	8.4	7
-11																																	
TCE	2600	150	44	3400	480	290	31	na	50	420	29	<50	54	170	<50	<50	72	<50	51	51	42	38	19	170	85	46	10	27	11	14	5.4	6.6	6.3
TCE Yearly Ave.				1549				267				125				56				44			33		128		28		19	14	5.4	6.6	6.3
Total VOC's	2600	150	44	3400	480	5090	141	na	440	630	375	230	344	1170	1700	<50	1062	1260	105	130	101	87	144	300	415	96	41	49	11	35	5.4	31.2	6.3
Tot. VOC Yearly Ave.				1549				1428				419				804				639			111		358		69		30	35	5.4	31.2	6.3
-12S																																	
TCE	190	220	280	120	270	190	100	21	46	50	150	140	150	150	180	100	110	170	88	88	100	na	24	82	60	82	11	80	23	11	59	10	44
TCE Yearly Ave.				203				145				97				145				114			62		71		47		52	11	59	10	44
Total VOC's	190	220	280	120	270	330	137	23	83	62	196	179	172	183	180	109	119	192	99	102	101	na	57	93	73	88	11	102	23	11	59	10	46.2
Tot. VOC Yearly Ave.				203				190				130				161				128			56		83		50		63	11	59	10	46.2
-12D																																	
TCE	21	13	17	23	17	12	12	13	10	45	10	9	13	11	15	8	7	16	9	5	7	6	6	5	5	5	4	2	8	11	7.8	10	4.8
TCE Yearly Ave.				19				14				19				11				9			6		5		5		5	11	7.8	10	4.8
Total VOC's	21	13	17	23	17	14	12	13	11	52	12	9	13	13	15	8	7	16	9	5	7	6	6	5	5	5	4	2	8	12	7.8	12	6.6
Tot. VOC Yearly Ave.				19				14				21				12				9			6		5		5		5	12	7.8	12	6.6
-BE1																																	
TCE																														<1	na	na	na
TCE Yearly Ave.																														<1	na	na	na
Total VOC's																														<1	na	na	na
Tot. VOC Yearly Ave.																														<1	na	na	na
BE2																																	
TCE																														<1	na	na	na
TCE Yearly Ave.																														<1	na	na	na
Total VOC's																														<1	na	na	na
Tot. VOC Yearly Ave.																														<1	na	na	na

Notes: 1. Units are ug/l.
2. Data from 2/90 thru 11/98 were transcribed from an OBG spreadsheet.
3. Data after 11/98 were entered directly from lab reports.
4. Most data are from Upstate Labs, Inc. Data after 3/99 are from Buck Env. Labs, Inc.
5. Wells MW-BE1 and MW-BE2 were installed in 1999 by Buck Engineering.

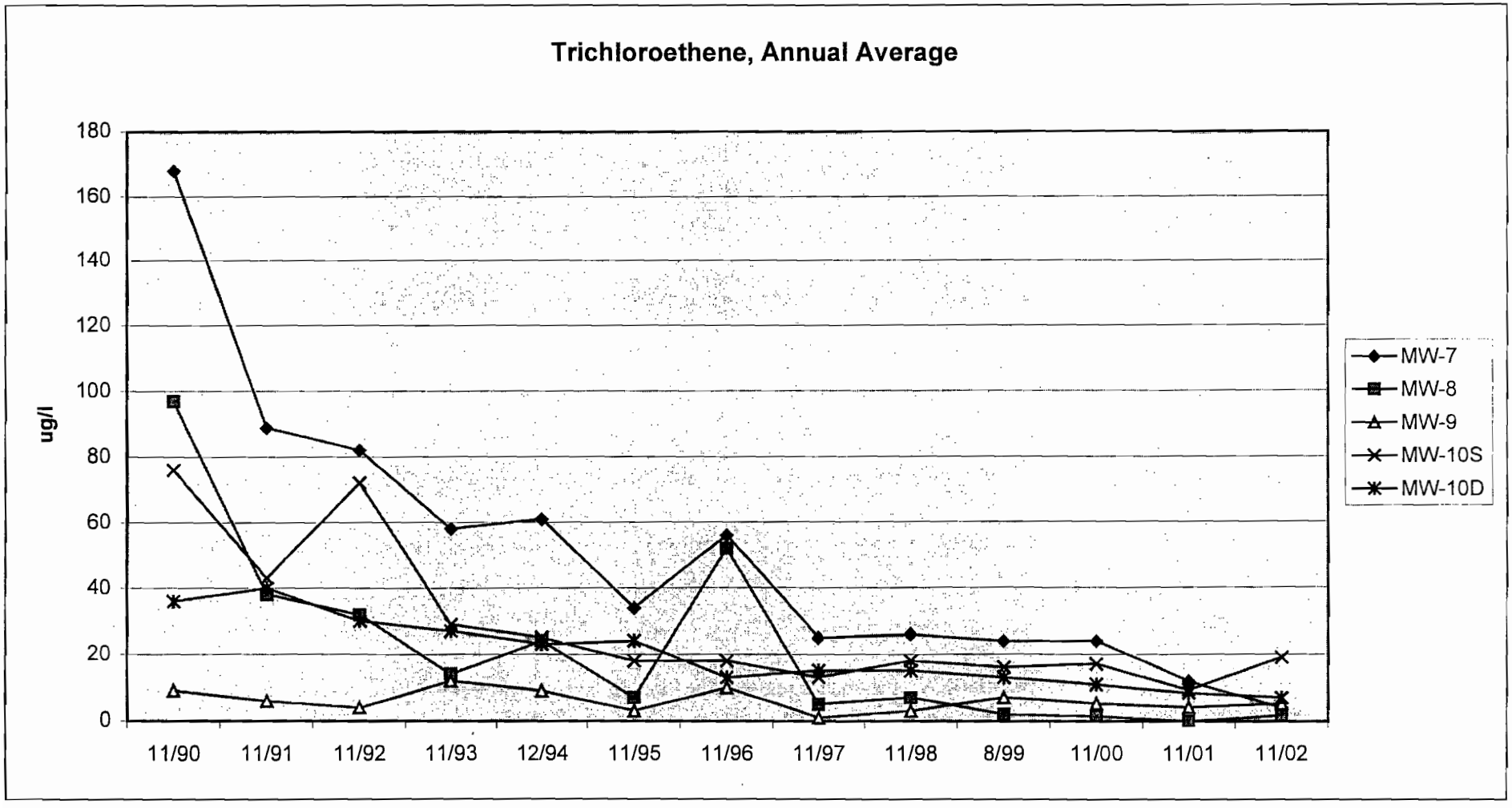
	11/90	11/91	11/92	11/93	12/94	11/95	11/96	11/97	11/98	8/99	11/00	11/01	11/02
MW-1S	32	18	10	13	13	10	7	11	12	6.9	4.5	5.5	7.5
MW-1D	21	19	13	14	11	12	9	8	7	7.8	2.7	2.7	1
MW-2S	5	8	6	6	4	4	4	3	4	3.5	2.1	2.4	2.2
MW-2D	7	7	5	4	3	3	2	2	1	2.5	-	-	-
MW-3	0	0	0	0	1	1	19	1	8	0	0	0	0



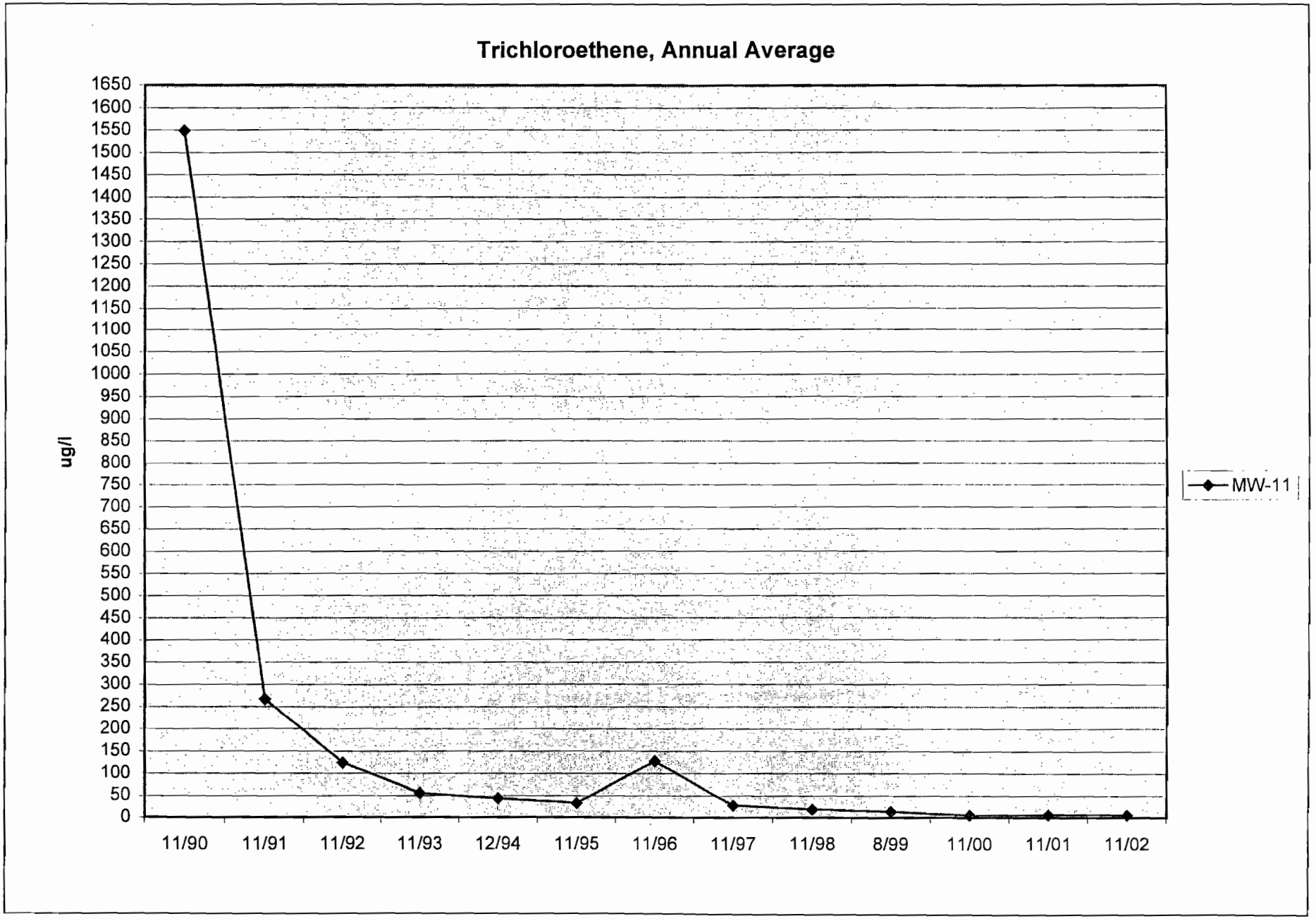
	11/90	11/91	11/92	11/93	12/94	11/95	11/96	11/97	11/98	8/99	11/00	11/01	11/02
MW-4S	1	1	1	0	0	1	0	0	0	0	0	0	0
MW-4D	1	1	0	0	0	1	0	0	0	0	0	0	0
MW-5S	2	1	0	0	0	1	0	0	0	0	0	0	1
MW-5D	3	3	1	1	0	1	2	2	0	0	0	0	1
MW-6	35	36	27	36	33	13	24	13	5	5	11	3.9	14



	11/90	11/91	11/92	11/93	12/94	11/95	11/96	11/97	11/98	8/99	11/00	11/01	11/02
MW-7	168	89	82	58	61	34	56	25	26	24	24	12	4
MW-8	97	38	32	14	24	7	52	5	7	2	1.5	0	1.7
MW-9	9	6	4	12	9	3	10	1	3	7	5.2	4.2	5.2
MW-10S	76	43	72	29	25	18	18	13	18	16	17	9.4	19
MW-10D	36	40	30	27	23	24	13	15	15	13	11	8.4	7



	11/90	11/91	11/92	11/93	12/94	11/95	11/96	11/97	11/98	8/99	11/00	11/01	11/02
MW-11	1549	267	125	56	44	33	128	28	19	14	5.4	6.6	6.3



	11/90	11/91	11/92	11/93	12/94	11/95	11/96	11/97	11/98	8/99	11/00	11/01	11/02
MW-12S	203	145	97	145	114	62	71	47	52	11	59	10	44
MW-12D	19	14	19	11	9	6	5	5	5	11	7.8	10	4.8