SUMMARY OF GROUND-WATER SAMPLING AND LNAPL MONITORING DATA

September 25, 1998

Prepared for:

SOLUTIA, INC.
#1 Monsanto Road
Nitro, West Virginia 25143

Prepared by:

ROUX ASSOCIATES, INC.
1222 Forest Parkway, Suite 190
West Deptford, New Jersey 08066

ROUX

MO06619J08.43

Summary of Ground-Water Sampling and LNAPL Monitoring Data

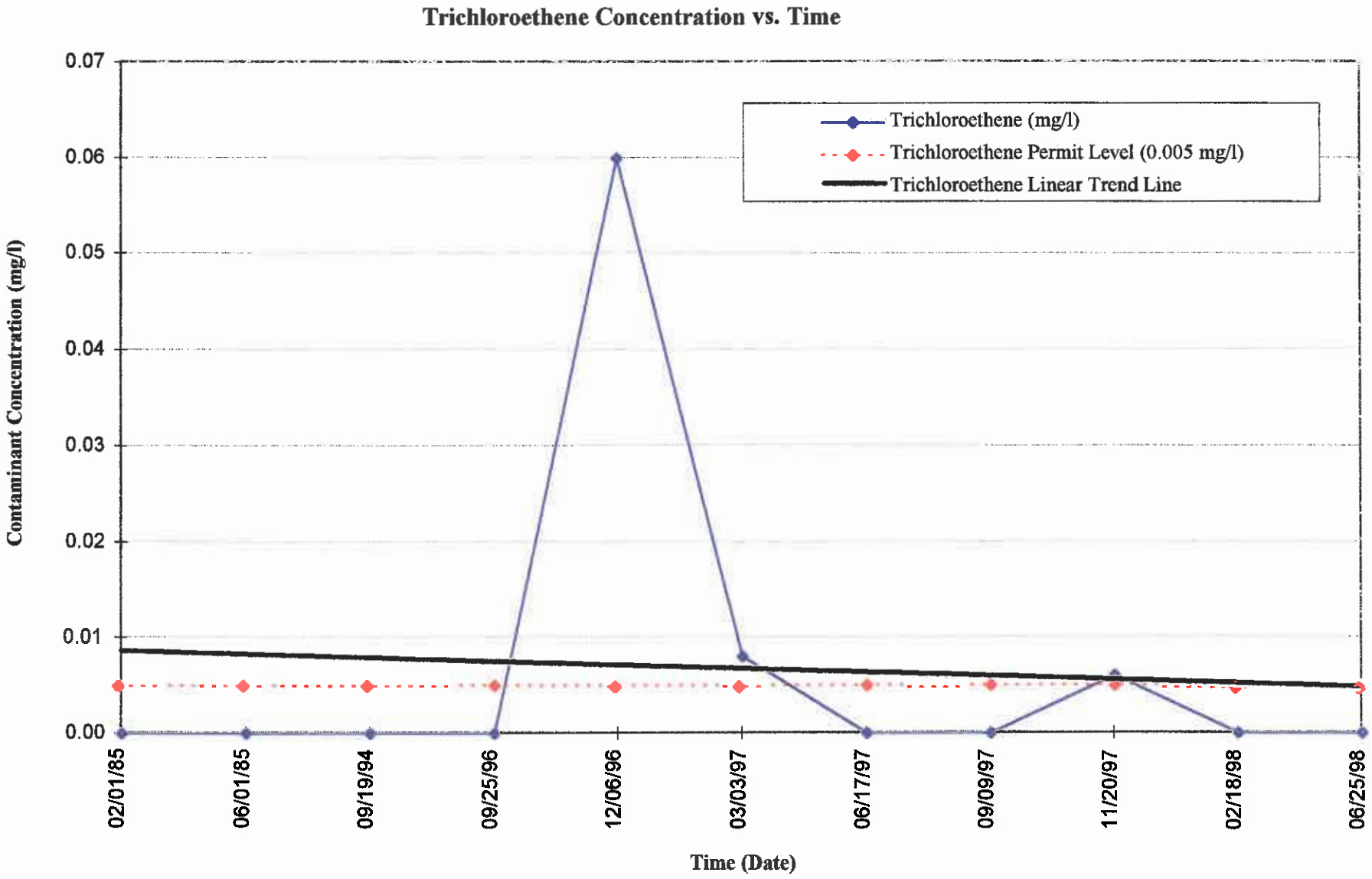
Solutia, Inc., Nitro, West Virginia

TCE Hot Spot Area	Rationale	Constituent	Appendix
MW-1A/B *	Background	TCE	A
MW-5A/B *	Hot Spot	TCE	B
MW-20A/B *	Hot Spot	TCE	C
MW-23A *	Hot Spot	TCE	D
EW-5A/B *	Extraction Well	TCE	E
EW-6A/B *	Extraction Well	TCE	F
EW-7A/B *	Extraction Well	TCE	G
EW-8 *	Extraction Well	TCE	H
Nitro Dump Area	**Rationale**	**Constituent**	**Appendix**
WT-15A	Background	Benzene/Phenols	I
WT-14A	Hot Spot	Benzene/Phenols	J
WT-13A	Perimeter	Benzene/Phenols	K
TD-5	Perimeter	Benzene/Phenols	L
Past Disposal Area (LNAPL)	**Rationale**	**Constituent**	**Appendix**
MW-14	Background	Benzene	M
MW-7 *	Hot Spot	Benzene	N
MW-22R *	Perimeter	TCE/Benzene	O
MW-24A *	Hot Spot	TCE/Benzene	P
EW-1,2,3,4	Extraction Wells	LNAPL	Q
MW-7	Hot Spot	LNAPL	R
M-1	Hot Spot	LNAPL	S
R-2	Hot Spot	LNAPL	T
B-1	Hot Spot	LNAPL	U
B-2	Hot Spot	LNAPL	V
B-3	Hot Spot	LNAPL	W
B-4	Hot Spot	LNAPL	X

* = Wells which have trend plots prepared.

APPENDIX A

Solutia, Inc.
Nitro, West Virginia
TCE Monitoring Well # MW-1A

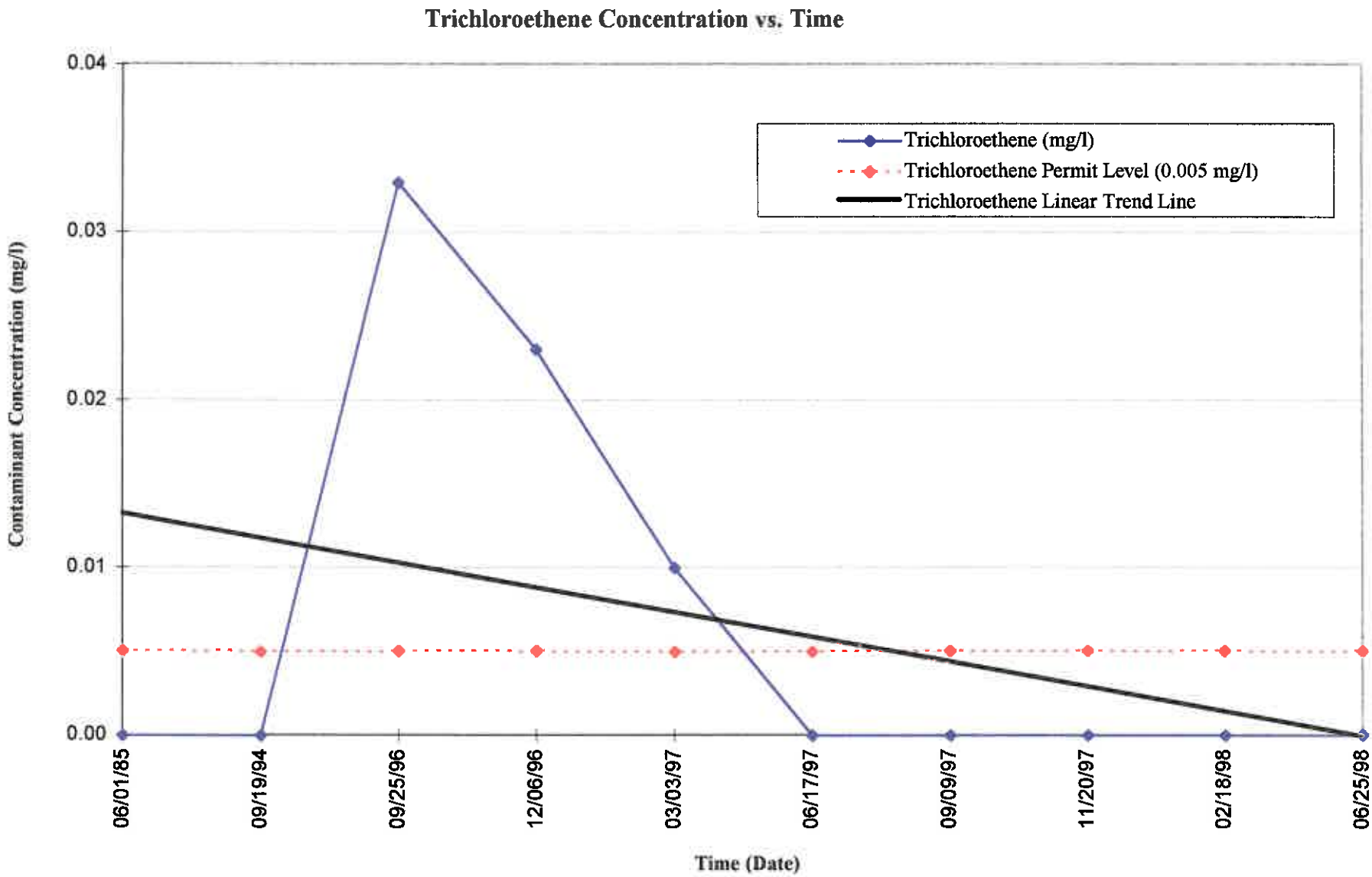


Summary of Ground-Water Analytical Data for TCE Monitoring Well # MW-1A
Solutia, Inc.
Nitro, West Virginia

Date	Trichloroethene (mg/l)
02/01/85	ND
06/01/85	ND
09/19/94	ND
09/25/96	ND
12/06/96	0.060
03/03/97	0.008
06/17/97	ND
09/09/97	ND
11/20/97	0.006
02/18/98	ND
06/25/98	ND

Abbreviations:
mg/l = milligrams per liter

Solutia, Inc.
Nitro, West Virginia
TCE Monitoring Well # MW-1B

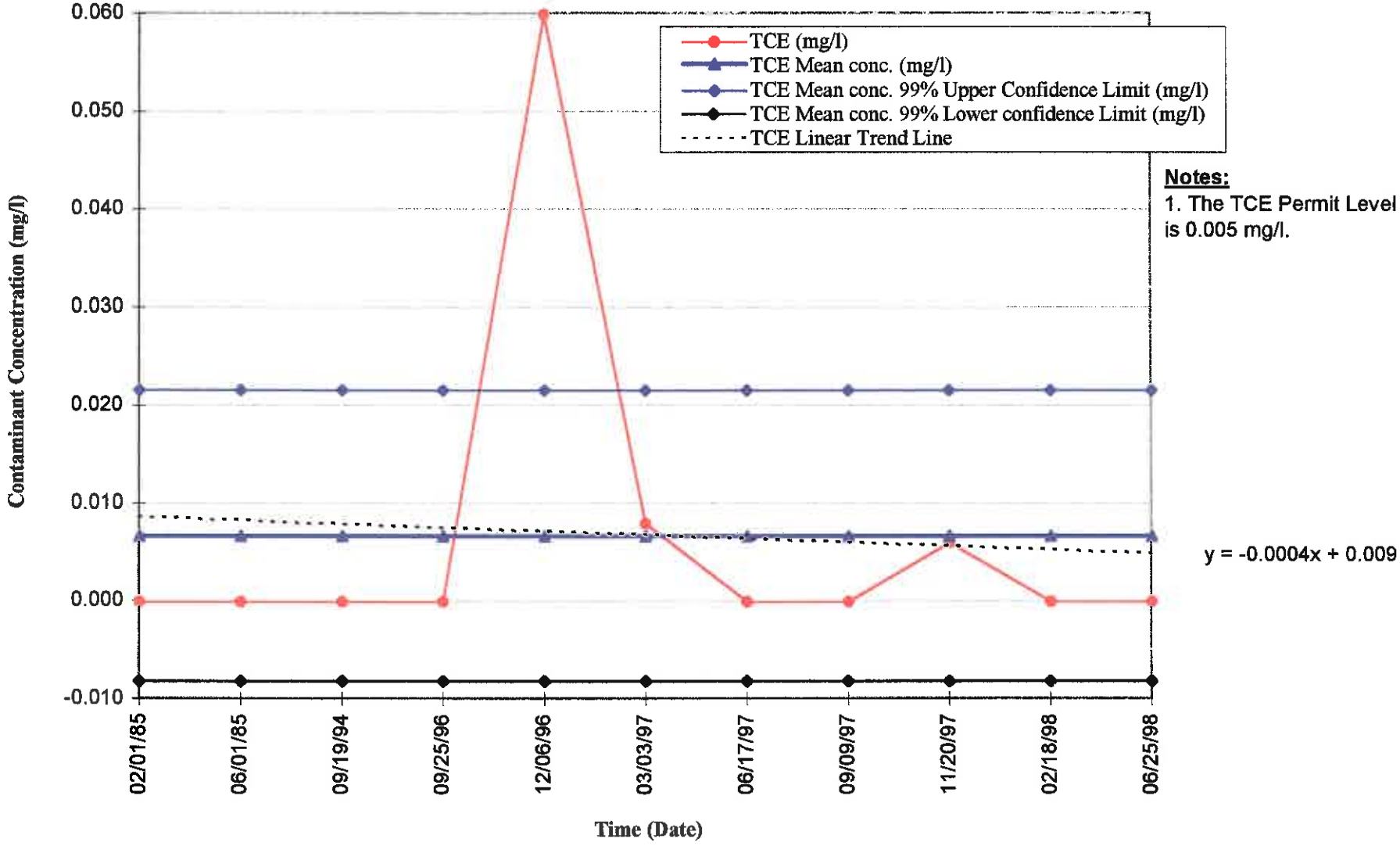


Summary of Ground-Water Analytical Data for TCE Monitoring Well # MW-1B
Solutia, Inc.
Nitro, West Virginia

Date	Trichloroethene (mg/l)
06/01/85	ND
09/19/94	ND
09/25/96	0.033
12/06/96	0.023
03/03/97	0.010
06/17/97	ND
09/09/97	ND
11/20/97	ND
02/18/98	ND
06/25/98	ND

Abbreviations:
mg/l = milligrams per liter

RCRA Statistical Analysis of MW-1A for Trichloroethene



RCRA Statistical Analysis of MW-1A for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
02/01/85	ND	0.0067	0.0216	-0.0082
06/01/85	ND	0.0067	0.0216	-0.0082
09/19/94	ND	0.0067	0.0216	-0.0082
09/25/96	ND	0.0067	0.0216	-0.0082
12/06/96	0.060	0.0067	0.0216	-0.0082
03/03/97	0.008	0.0067	0.0216	-0.0082
06/17/97	ND	0.0067	0.0216	-0.0082
09/09/97	ND	0.0067	0.0216	-0.0082
11/20/97	0.006	0.0067	0.0216	-0.0082
02/18/98	ND	0.0067	0.0216	-0.0082
06/25/98	ND	0.0067	0.0216	-0.0082

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 0.006727 mg/l

Standard Deviation, s= 0.017894641 mg/l

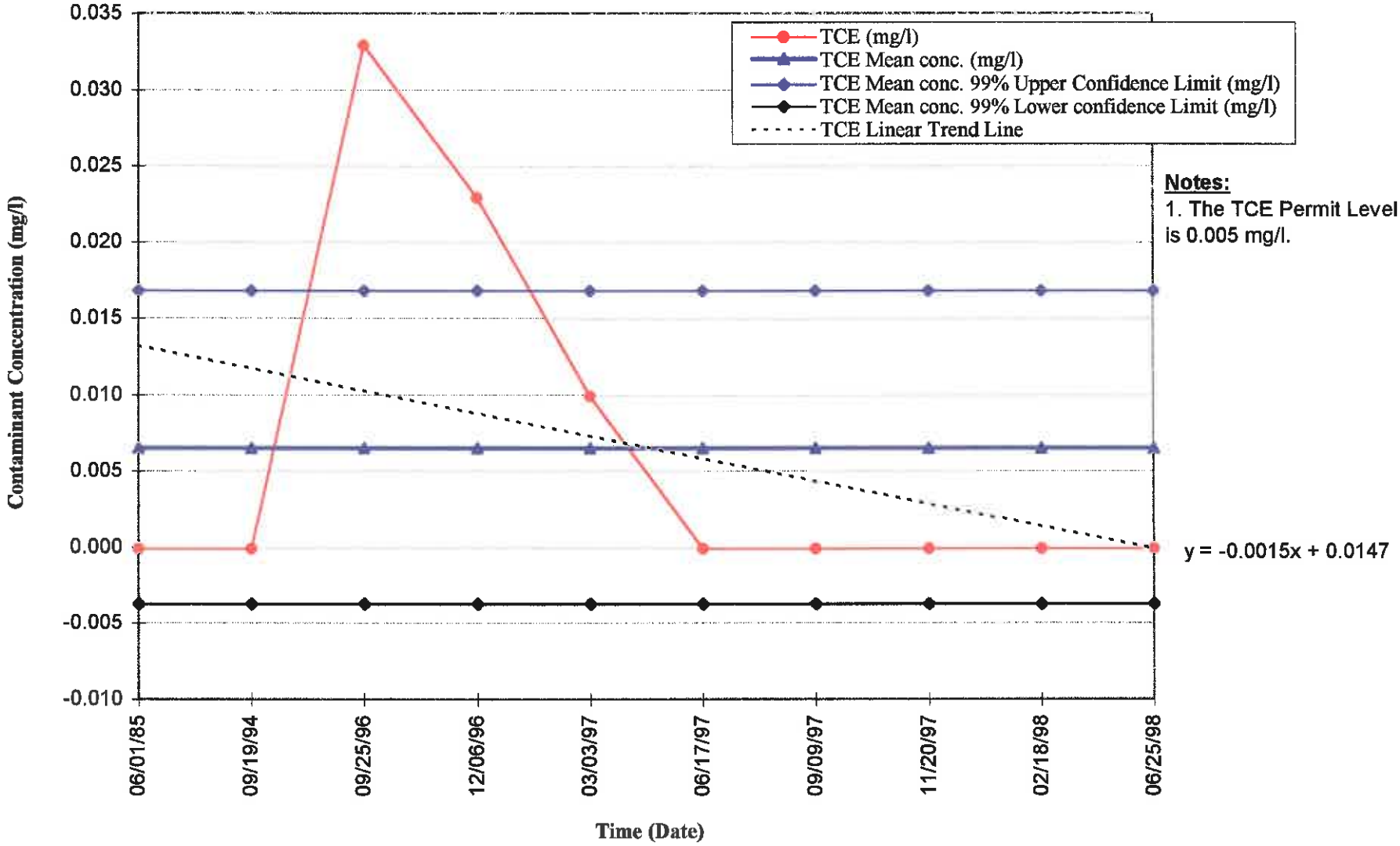
Degrees of Freedom = 10

t Distribution, t0.99 = 2.764

Confidence Interval (upper limit)= 0.02164 mg/l

Confidence Interval (lower limit)= -0.00819 mg/l

RCRA Statistical Analysis of MW-1B for Trichloroethene



RCRA Statistical Analysis of MW-1B for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
06/01/85	ND	0.0066	0.0169	-0.0037
09/19/94	ND	0.0066	0.0169	-0.0037
09/25/96	0.033	0.0066	0.0169	-0.0037
12/06/96	0.023	0.0066	0.0169	-0.0037
03/03/97	0.010	0.0066	0.0169	-0.0037
06/17/97	ND	0.0066	0.0169	-0.0037
09/09/97	ND	0.0066	0.0169	-0.0037
11/20/97	ND	0.0066	0.0169	-0.0037
02/18/98	ND	0.0066	0.0169	-0.0037
06/25/98	ND	0.0066	0.0169	-0.0037

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 0.006600 mg/l

Standard Deviation, s= 0.011532563 mg/l

Degrees of Freedom = 9

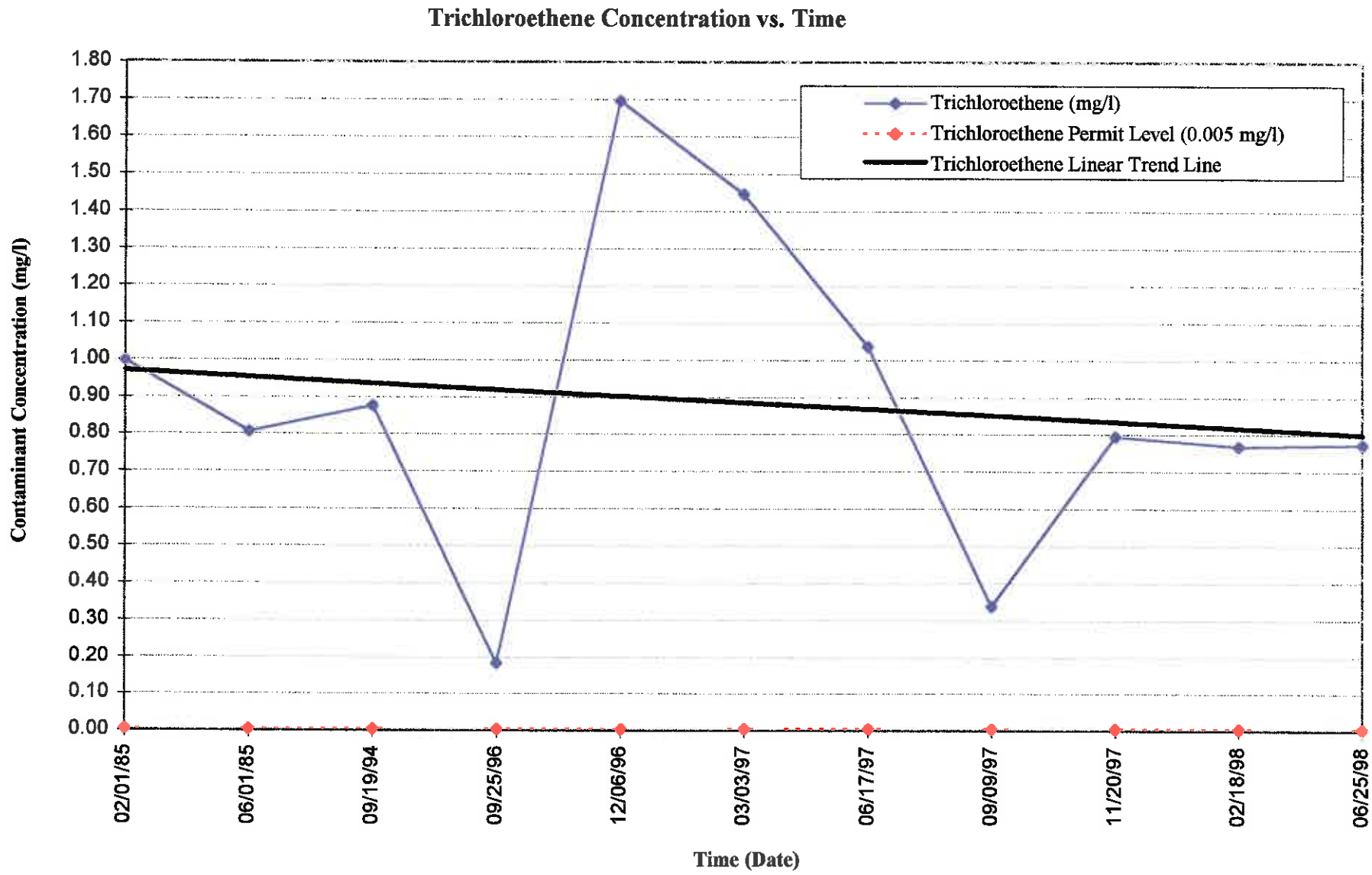
t Distribution, t0.99 = 2.821

Confidence Interval (upper limit)= 0.01689 mg/l

Confidence Interval (lower limit)= -0.00369 mg/l

APPENDIX B

Solutia, Inc.
Nitro, West Virginia
TCE Monitoring Well # MW-5A

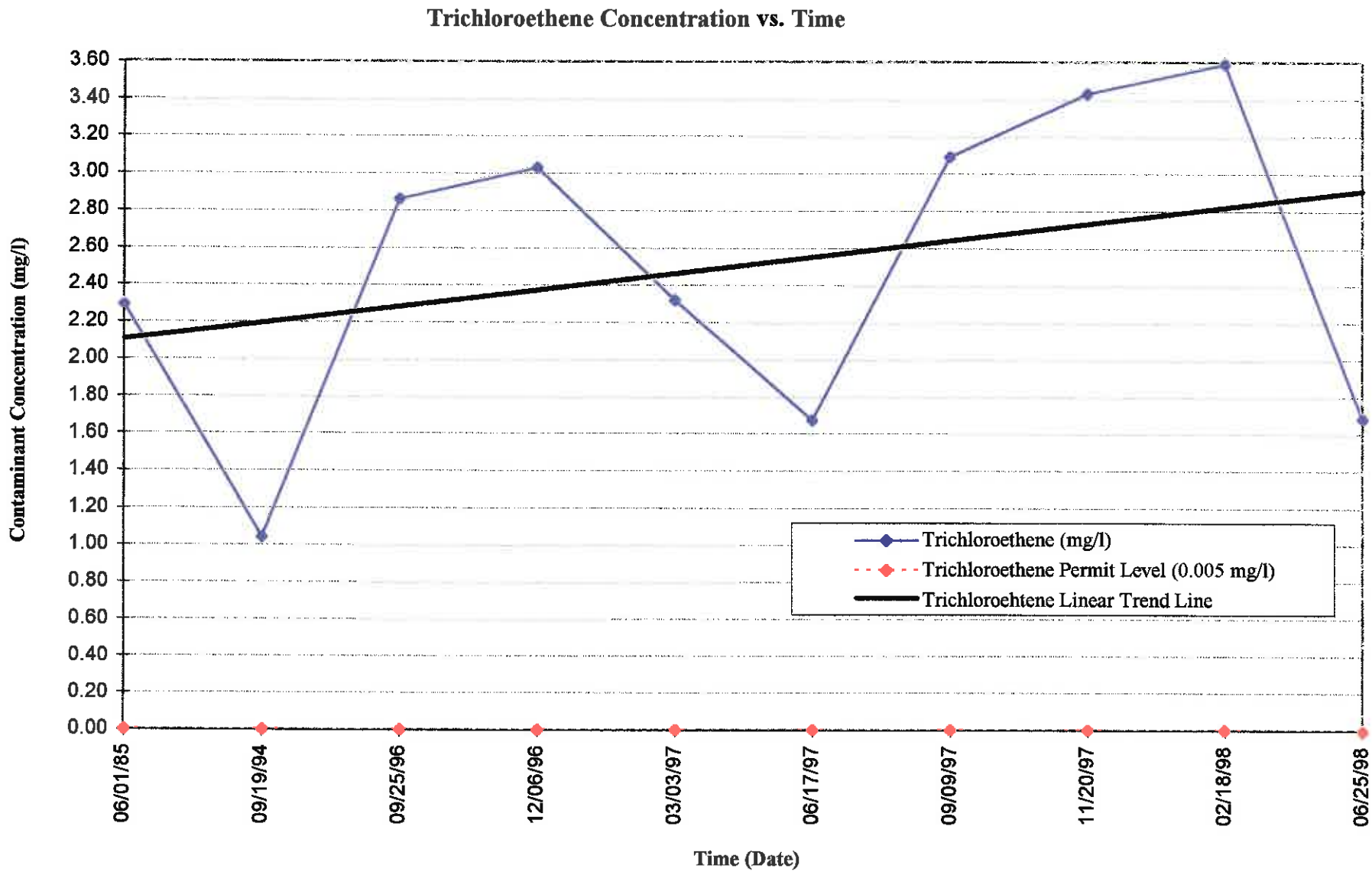


Summary of Ground-Water Analytical Data for TCE Monitoring Well # MW-5A
Solutia, Inc.
Nitro, West Virginia

Date	Trichloroethene (mg/l)
02/01/85	1.000
06/01/85	0.810
09/19/94	0.880
09/25/96	0.186
12/06/96	1.700
03/03/97	1.450
06/17/97	1.040
09/09/97	0.341
11/20/97	0.797
02/18/98	0.771
06/25/98	0.776

Abbreviations:
mg/l = milligrams per liter

Solutia, Inc.
Nitro, West Virginia
TCE Monitoring Well # MW-5B

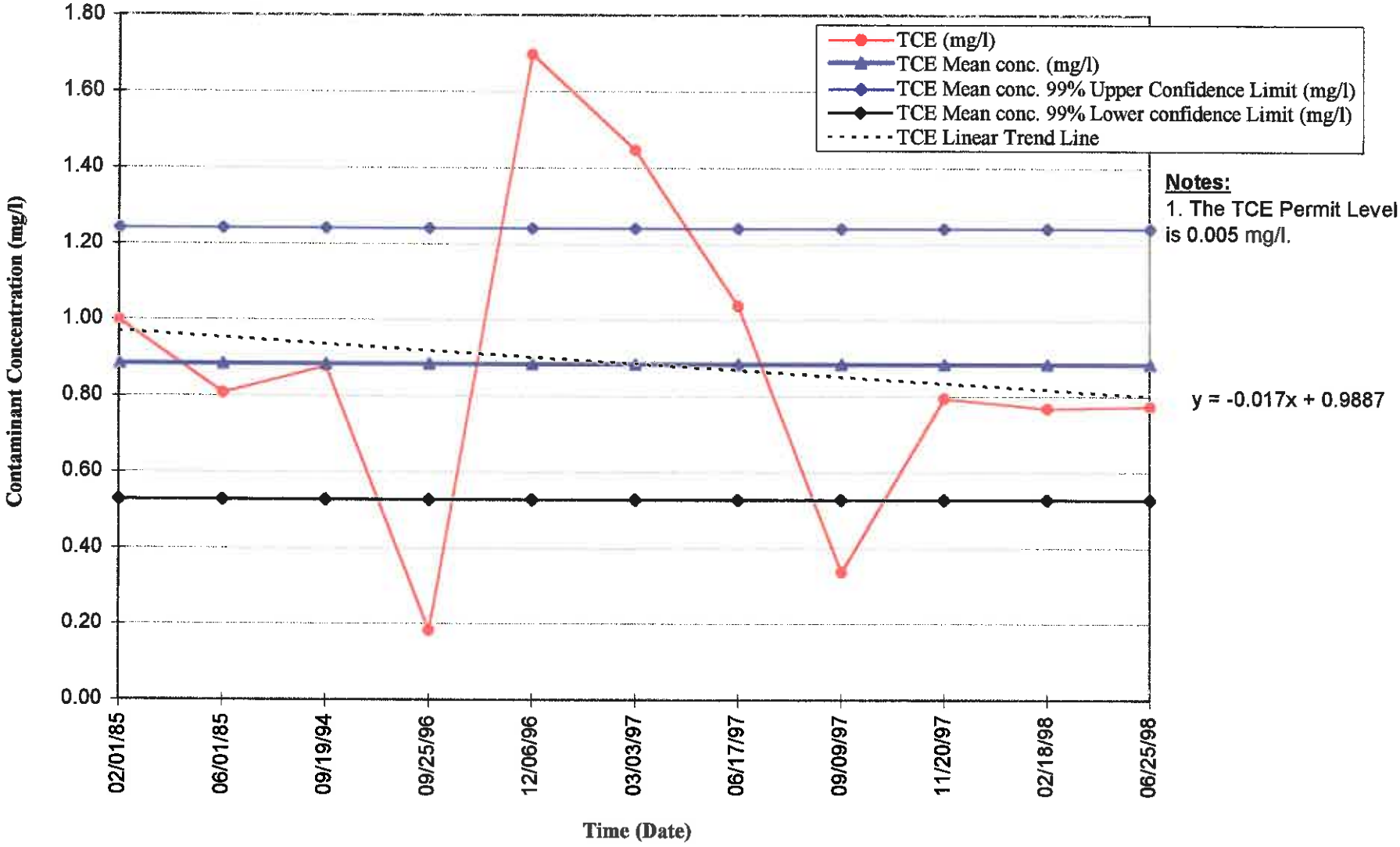


Summary of Ground-Water Analytical Data for TCE Monitoring Well # MW-5B
Solutia, Inc.
Nitro, West Virginia

Date	Trichloroethene (mg/l)
06/01/85	2.300
09/19/94	1.050
09/25/96	2.870
12/06/96	3.040
03/03/97	2.330
06/17/97	1.680
09/09/97	3.100
11/20/97	3.440
02/18/98	3.600
06/25/98	1.690

Abbreviations:
mg/l = milligrams per liter

RCRA Statistical Analysis of MW-5A for Trichloroethene



RCRA Statistical Analysis of MW-5A for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
02/01/85	1.000	0.8865	1.2443	0.5286
06/01/85	0.810	0.8865	1.2443	0.5286
09/19/94	0.880	0.8865	1.2443	0.5286
09/25/96	0.186	0.8865	1.2443	0.5286
12/06/96	1.700	0.8865	1.2443	0.5286
03/03/97	1.450	0.8865	1.2443	0.5286
06/17/97	1.040	0.8865	1.2443	0.5286
09/09/97	0.341	0.8865	1.2443	0.5286
11/20/97	0.797	0.8865	1.2443	0.5286
02/18/98	0.771	0.8865	1.2443	0.5286
06/25/98	0.776	0.8865	1.2443	0.5286

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 0.886455 mg/l

Standard Deviation, s= 0.42935821 mg/l

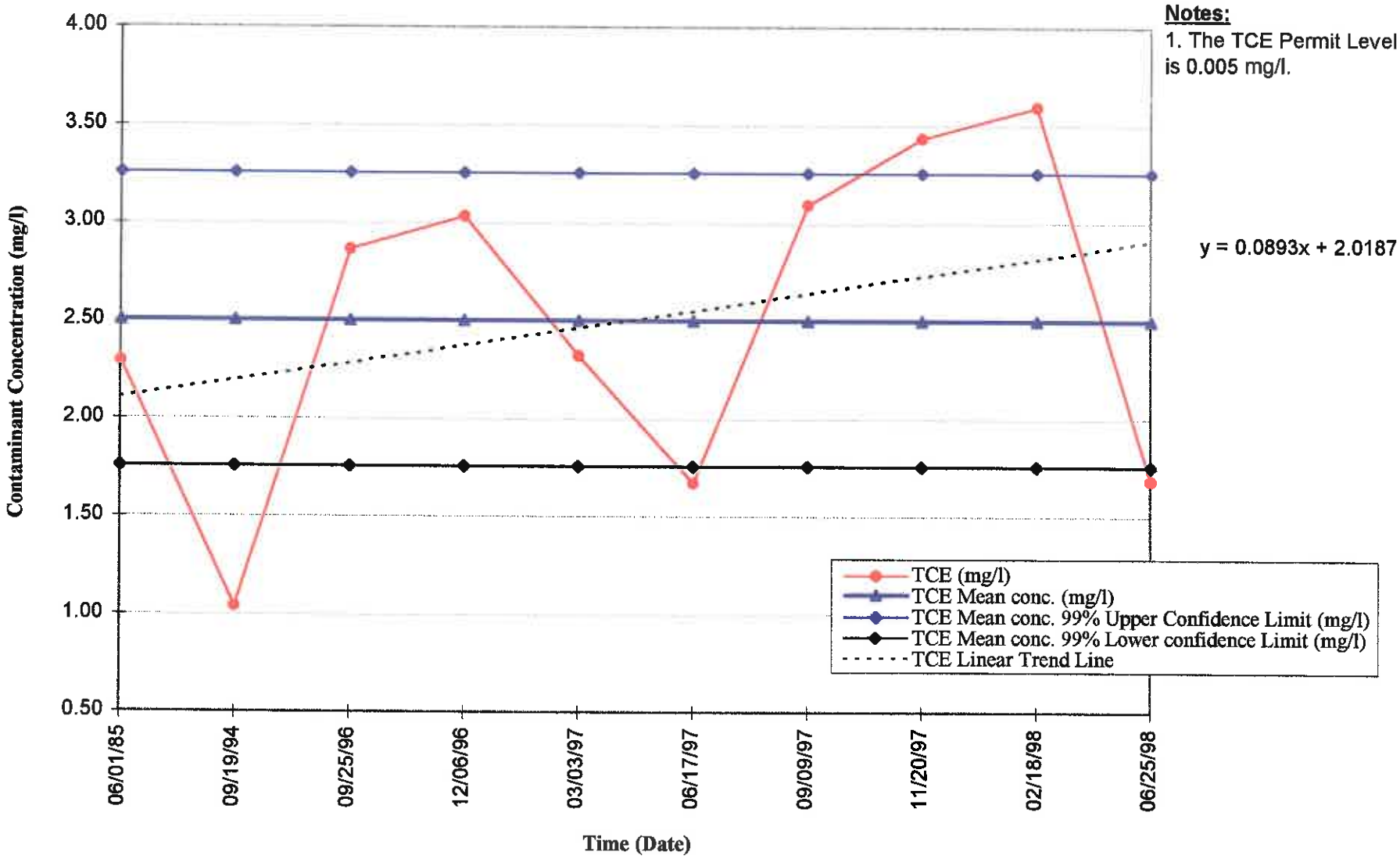
Degrees of Freedom = 10

t Distribution, t0.99 = 2.764

Confidence Interval (upper limit)= 1.24427 mg/l

Confidence Interval (lower limit)= 0.52864 mg/l

RCRA Statistical Analysis of MW-5B for Trichloroethene



RCRA Statistical Analysis of MW-5B for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
06/01/85	2.300	2.5100	3.2611	1.7589
09/19/94	1.050	2.5100	3.2611	1.7589
09/25/96	2.870	2.5100	3.2611	1.7589
12/06/96	3.040	2.5100	3.2611	1.7589
03/03/97	2.330	2.5100	3.2611	1.7589
06/17/97	1.680	2.5100	3.2611	1.7589
09/09/97	3.100	2.5100	3.2611	1.7589
11/20/97	3.440	2.5100	3.2611	1.7589
02/18/98	3.600	2.5100	3.2611	1.7589
06/25/98	1.690	2.5100	3.2611	1.7589

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 2.510000 mg/l

Standard Deviation, s= 0.842021377 mg/l

Degrees of Freedom = 9

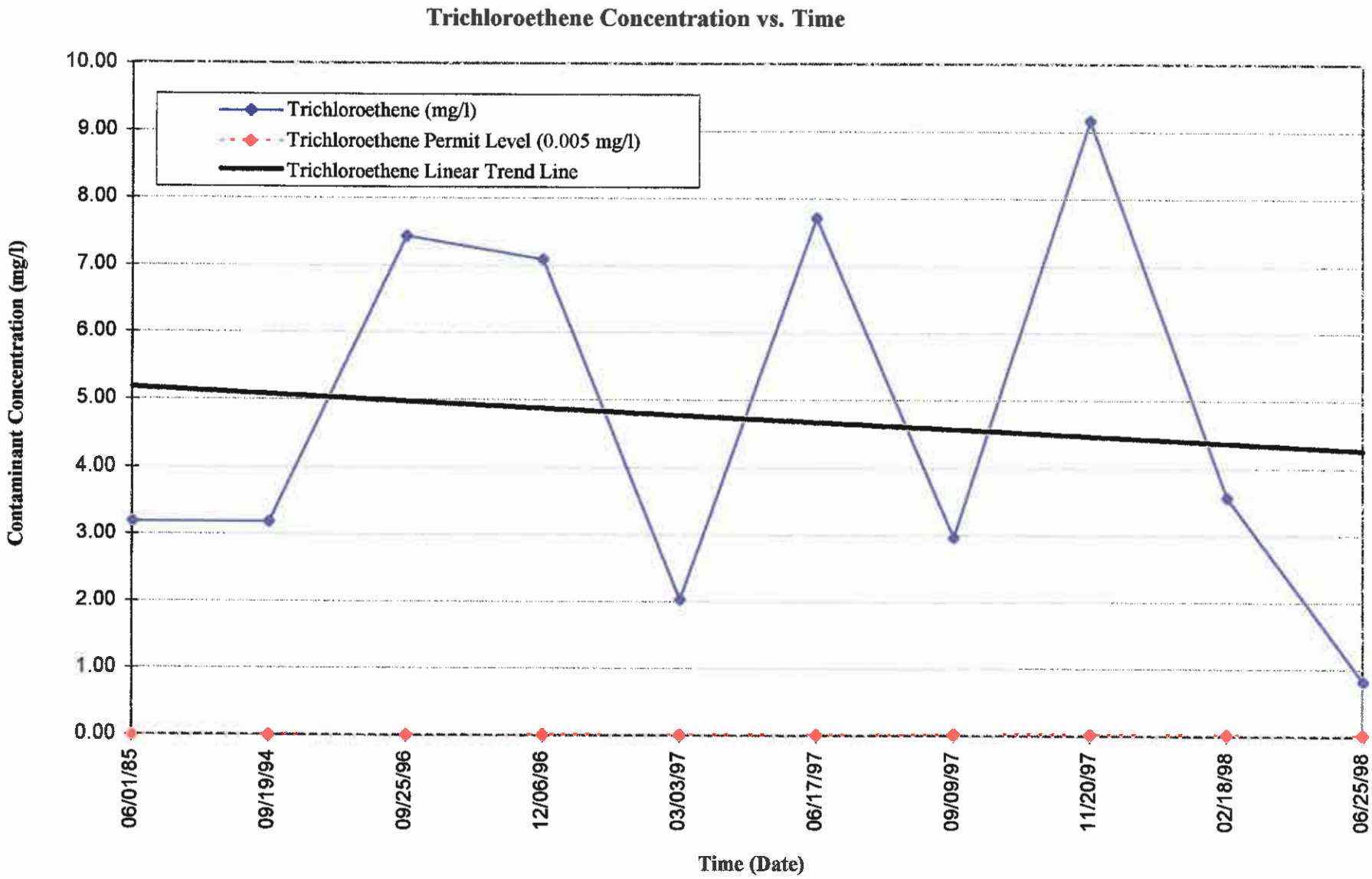
t Distribution, t0.99 = 2.821

Confidence Interval (upper limit)= 3.26115 mg/l

Confidence Interval (lower limit)= 1.75885 mg/l

APPENDIX C

Solutia, Inc.
Nitro, West Virginia
TCE Monitoring Well # MW-20A

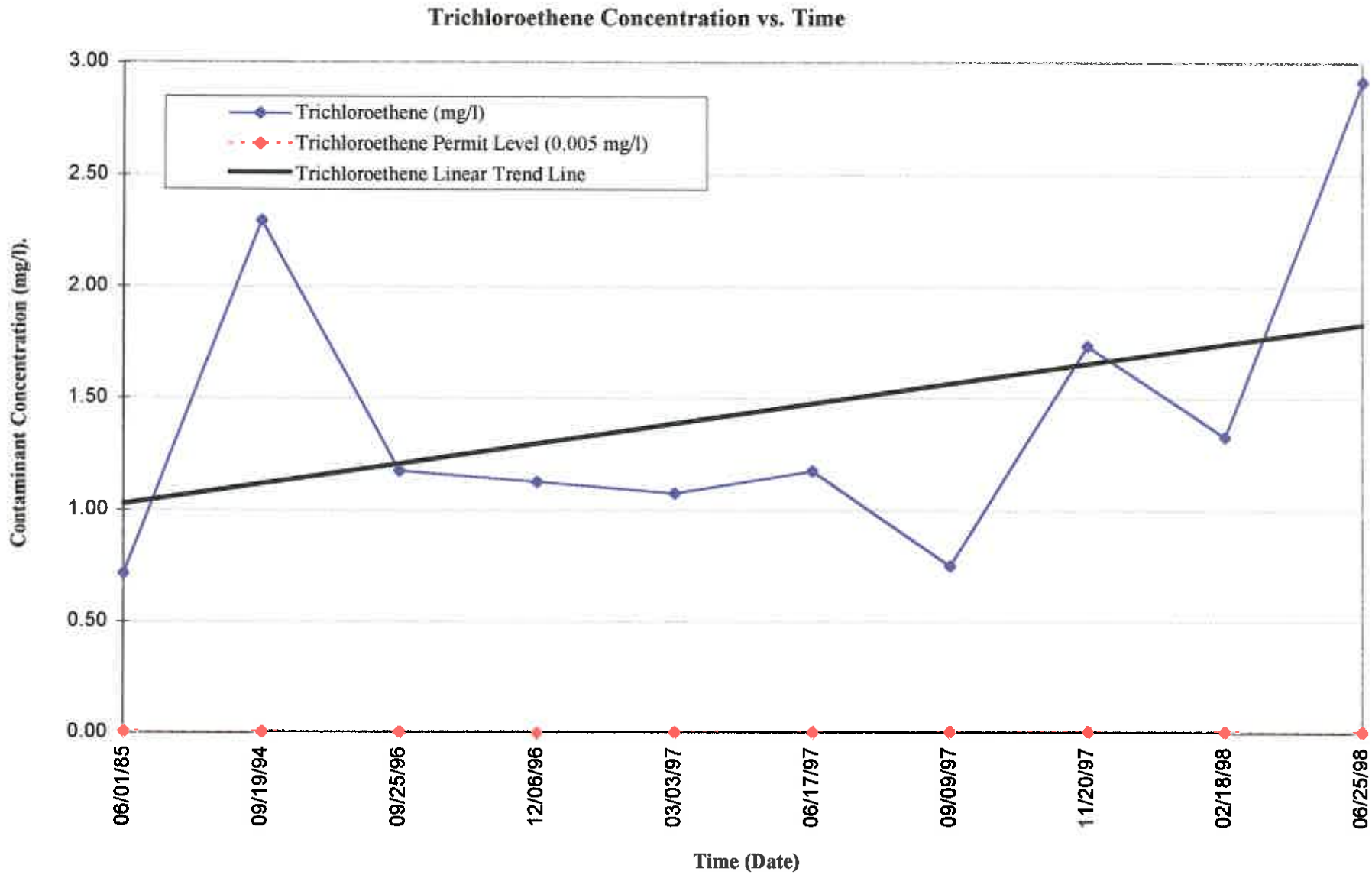


Summary of Ground-Water Analytical Data for TCE Monitoring Well # MW-20A
Solutia, Inc.
Nitro, West Virginia

Date	Trichloroethene (mg/l)
06/01/85	3.200
09/19/94	3.200
09/25/96	7.450
12/06/96	7.110
03/03/97	2.050
06/17/97	7.730
09/09/97	2.980
11/20/97	9.180
02/18/98	3.580
06/25/98	0.836

Abbreviations:
mg/l = milligrams per liter

Solutia, Inc.
Nitro, West Virginia
TCE Monitoring Well # MW-20B

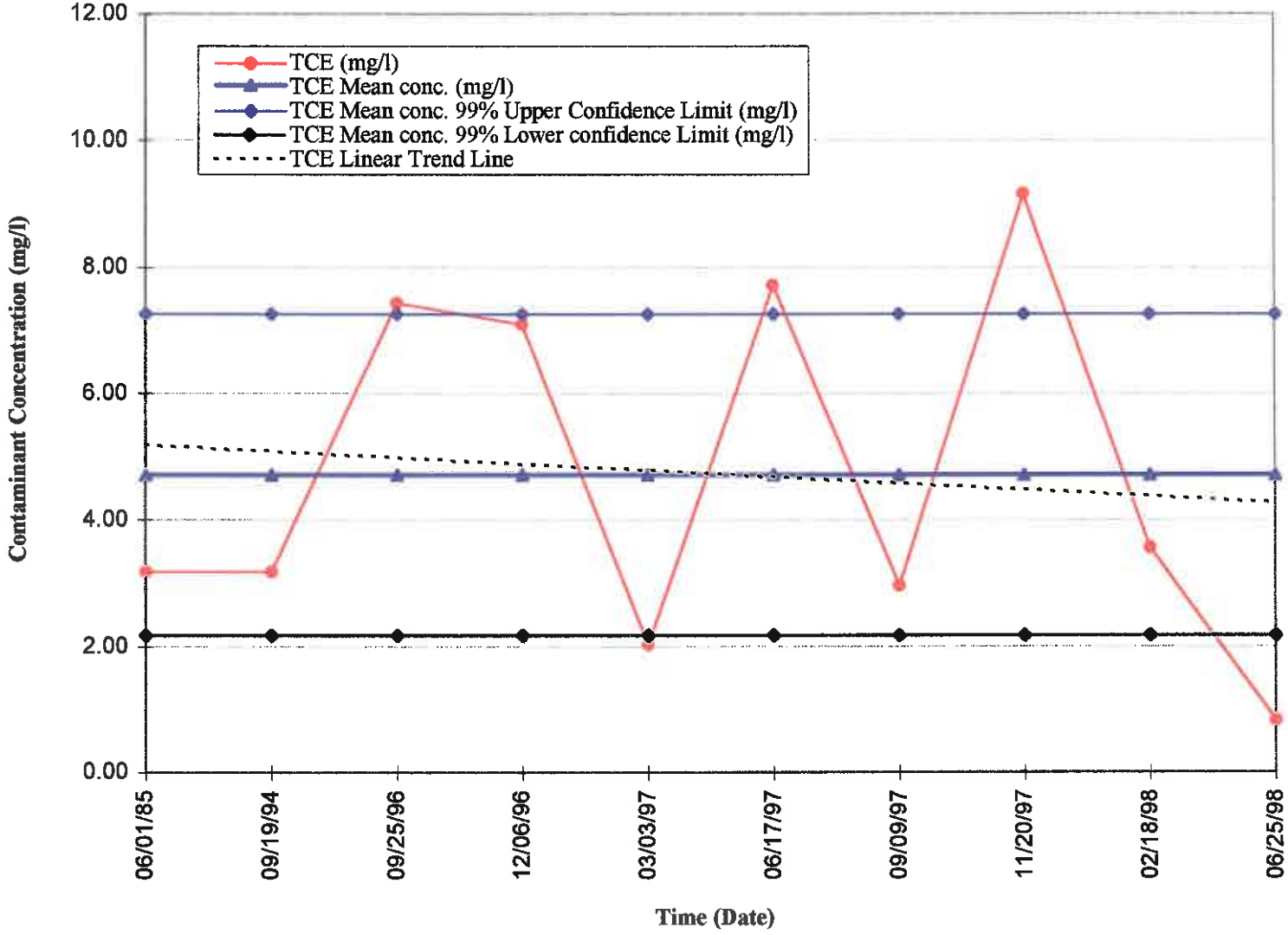


Summary of Ground-Water Analytical Data for TCE Monitoring Well # MW-20B
Solutia, Inc.
Nitro, West Virginia

Date	Trichloroethene (mg/l)
06/01/85	0.720
09/19/94	2.300
09/25/96	1.180
12/06/96	1.130
03/03/97	1.080
06/17/97	1.180
09/09/97	0.755
11/20/97	1.740
02/18/98	1.330
06/25/98	2.920

Abbreviations:
mg/l = milligrams per liter

RCRA Statistical Analysis of MW-20A for Trichloroethene



Notes:
1. The TCE Permit Level is 0.005 mg/l.

y = -0.1011x + 5.2875

RCRA Statistical Analysis of MW-20A for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
06/01/85	3.200	4.7316	7.2771	2.1861
09/19/94	3.200	4.7316	7.2771	2.1861
09/25/96	7.450	4.7316	7.2771	2.1861
12/06/96	7.110	4.7316	7.2771	2.1861
03/03/97	2.050	4.7316	7.2771	2.1861
06/17/97	7.730	4.7316	7.2771	2.1861
09/09/97	2.980	4.7316	7.2771	2.1861
11/20/97	9.180	4.7316	7.2771	2.1861
02/18/98	3.580	4.7316	7.2771	2.1861
06/25/98	0.836	4.7316	7.2771	2.1861

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 4.731600 mg/l

Standard Deviation, s= 2.853413363 mg/l

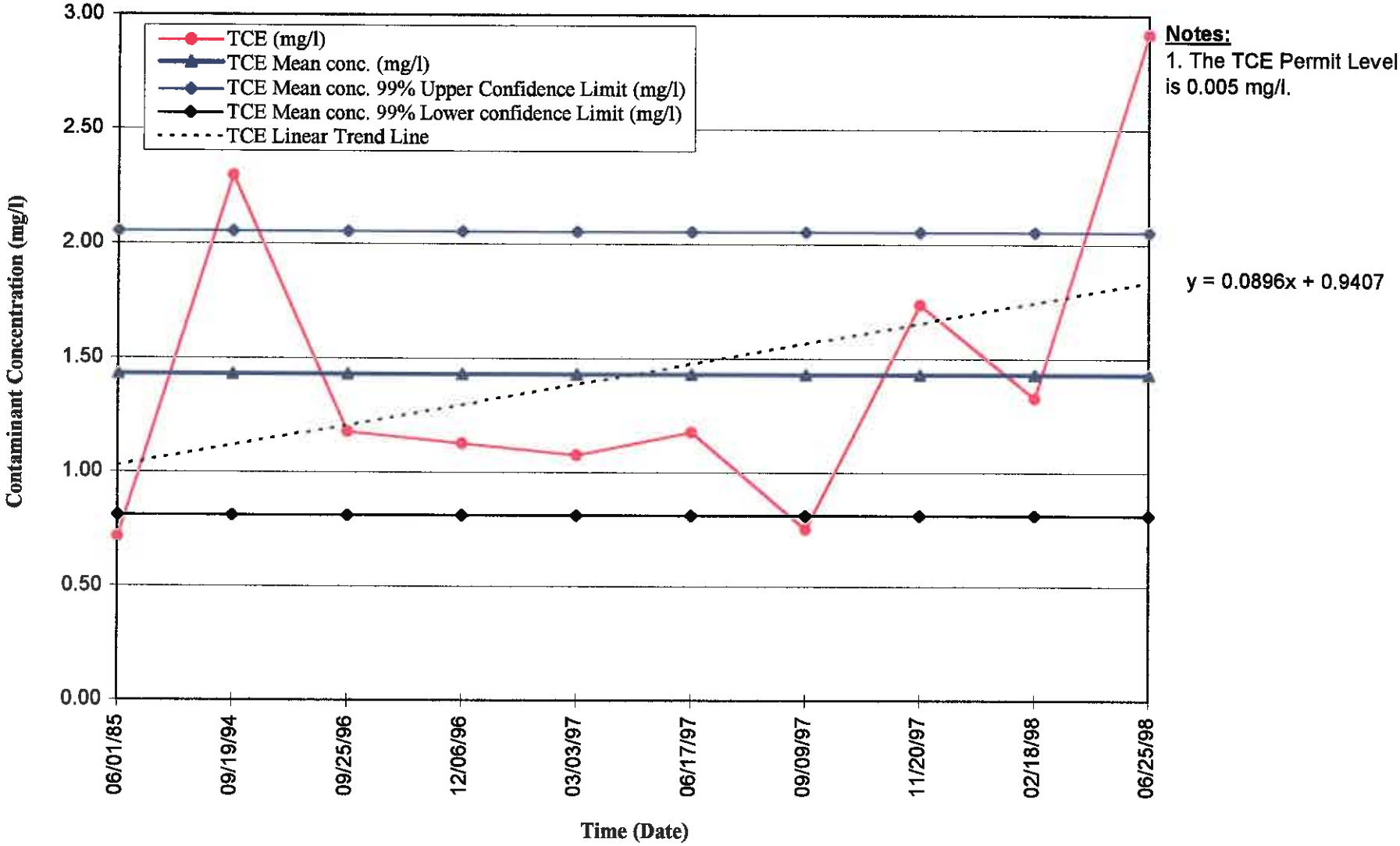
Degrees of Freedom = 9

t Distribution, t0.99 = 2.821

Confidence Interval (upper limit)= 7.27707 mg/l

Confidence Interval (lower limit)= 2.18613 mg/l

RCRA Statistical Analysis of MW-20B for Trichloroethene



Notes:
1. The TCE Permit Level is 0.005 mg/l.

RCRA Statistical Analysis of MW-20B for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
06/01/85	0.720	1.4335	2.0558	0.8112
09/19/94	2.300	1.4335	2.0558	0.8112
09/25/96	1.180	1.4335	2.0558	0.8112
12/06/96	1.130	1.4335	2.0558	0.8112
03/03/97	1.080	1.4335	2.0558	0.8112
06/17/97	1.180	1.4335	2.0558	0.8112
09/09/97	0.755	1.4335	2.0558	0.8112
11/20/97	1.740	1.4335	2.0558	0.8112
02/18/98	1.330	1.4335	2.0558	0.8112
06/25/98	2.920	1.4335	2.0558	0.8112

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 1.433500 mg/l

Standard Deviation, s= 0.697631111 mg/l

Degrees of Freedom = 9

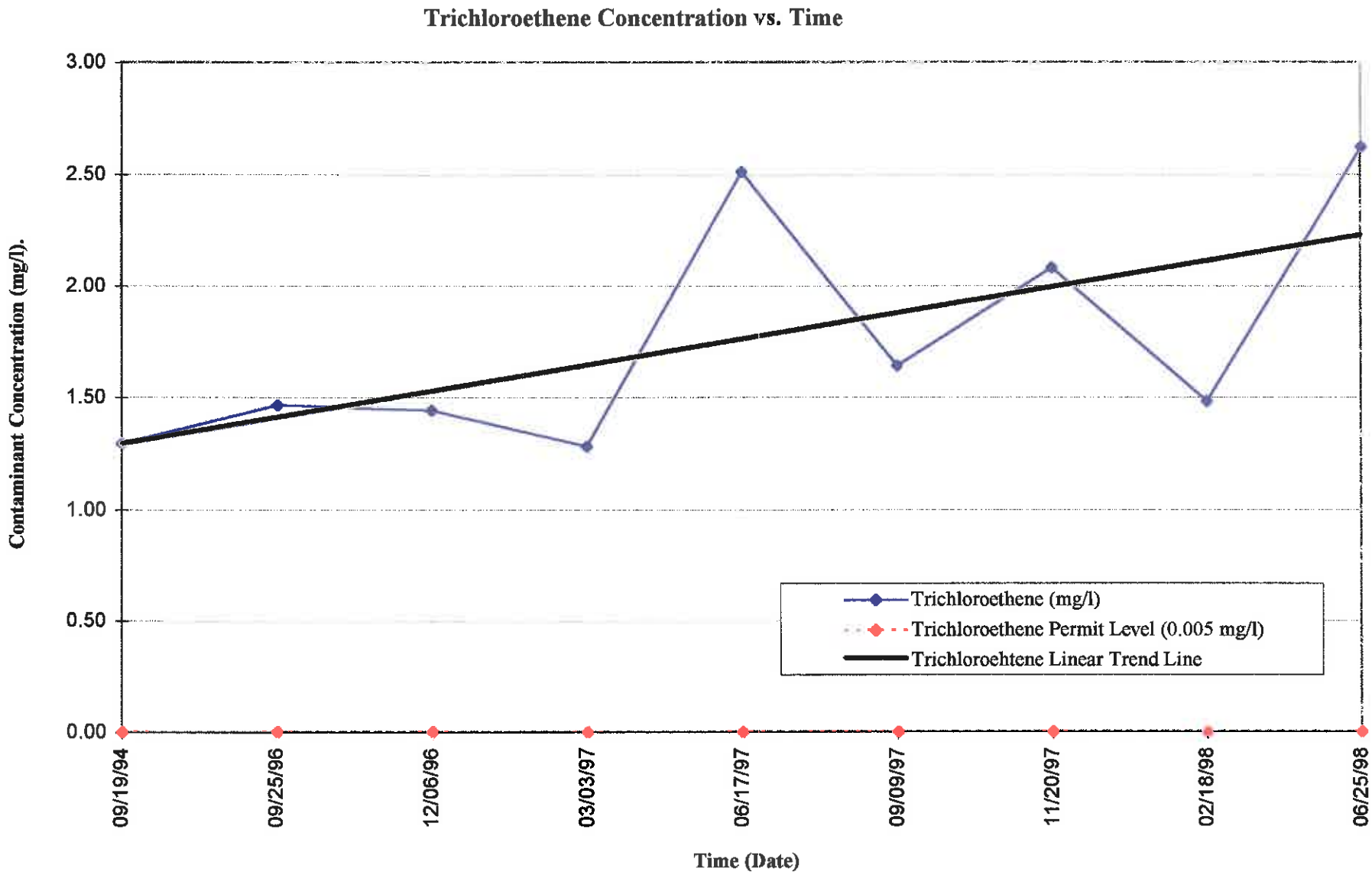
t Distribution, t0.99 = 2.821

Confidence Interval (upper limit)= 2.05584 mg/l

Confidence Interval (lower limit)= 0.81116 mg/l

APPENDIX D

Solutia, Inc.
Nitro, West Virginia
TCE Monitoring Well # MW-23A



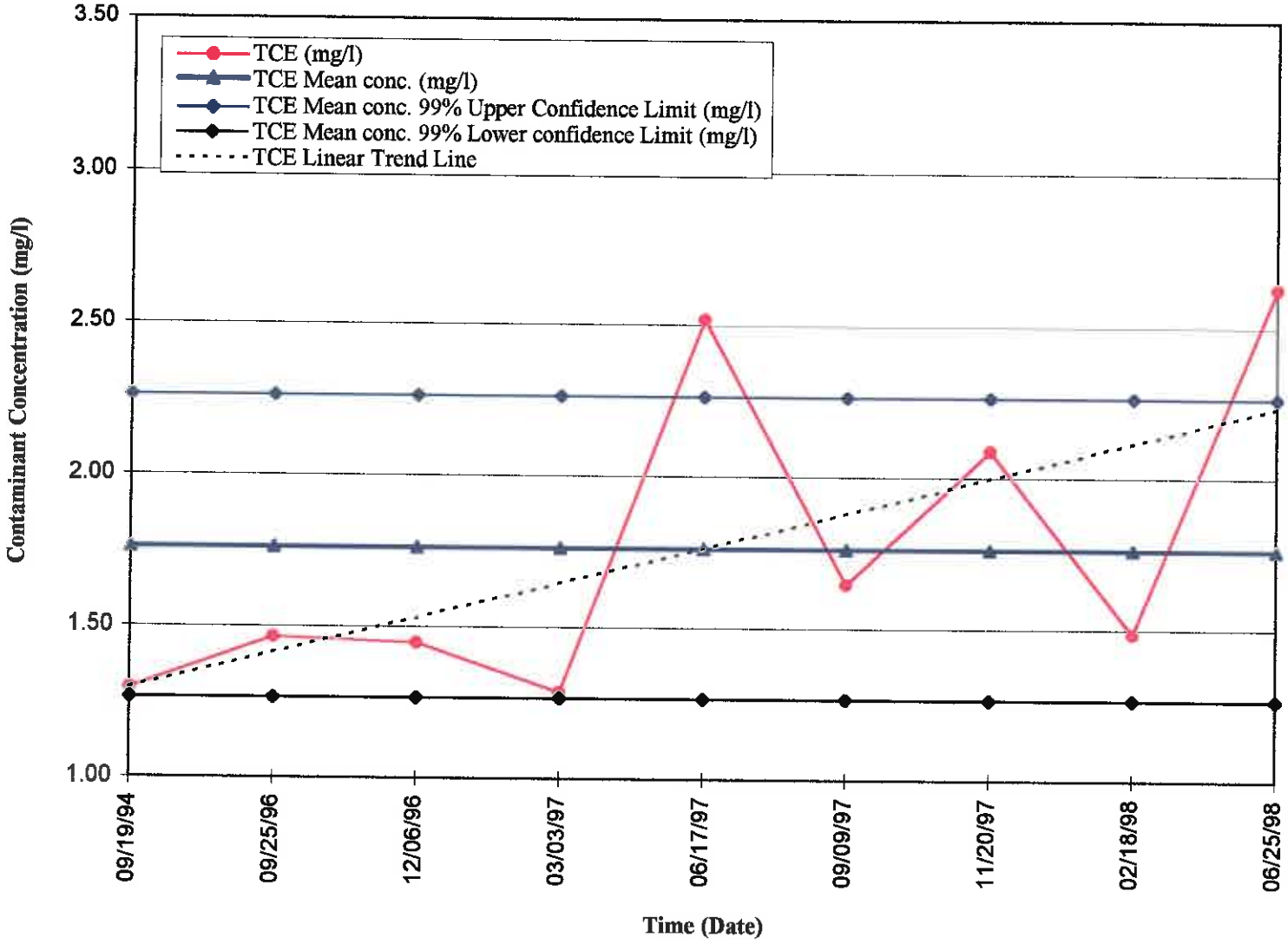
Summary of Ground-Water Analytical Data for TCE Monitoring Well # MW-23A
Solutia, Inc.
Nitro, West Virginia

Date	Trichloroethene (mg/l)
09/19/94	1.300
09/25/96	1.470
12/06/96	1.450
03/03/97	1.290
06/17/97	2.520
09/09/97	1.650
11/20/97	2.090
02/18/98	1.490
06/25/98	2.630

Abbreviations:

mg/l = milligrams per liter

RCRA Statistical Analysis of MW-23A for Trichloroethene



Notes:

1. The TCE Permit Level is 0.005 mg/l.

$y = 0.117x + 1.1806$

ROUX ASSOCIATES INC

MO06619J04.26st

RCRA Statistical Analysis of MW-23A for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
09/19/94	1.300	1.7656	2.2649	1.2662
09/25/96	1.470	1.7656	2.2649	1.2662
12/06/96	1.450	1.7656	2.2649	1.2662
03/03/97	1.290	1.7656	2.2649	1.2662
06/17/97	2.520	1.7656	2.2649	1.2662
09/09/97	1.650	1.7656	2.2649	1.2662
11/20/97	2.090	1.7656	2.2649	1.2662
02/18/98	1.490	1.7656	2.2649	1.2662
06/25/98	2.630	1.7656	2.2649	1.2662

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 1.765556 mg/l

Standard Deviation, s= 0.517303371 mg/l

Degrees of Freedom = 8

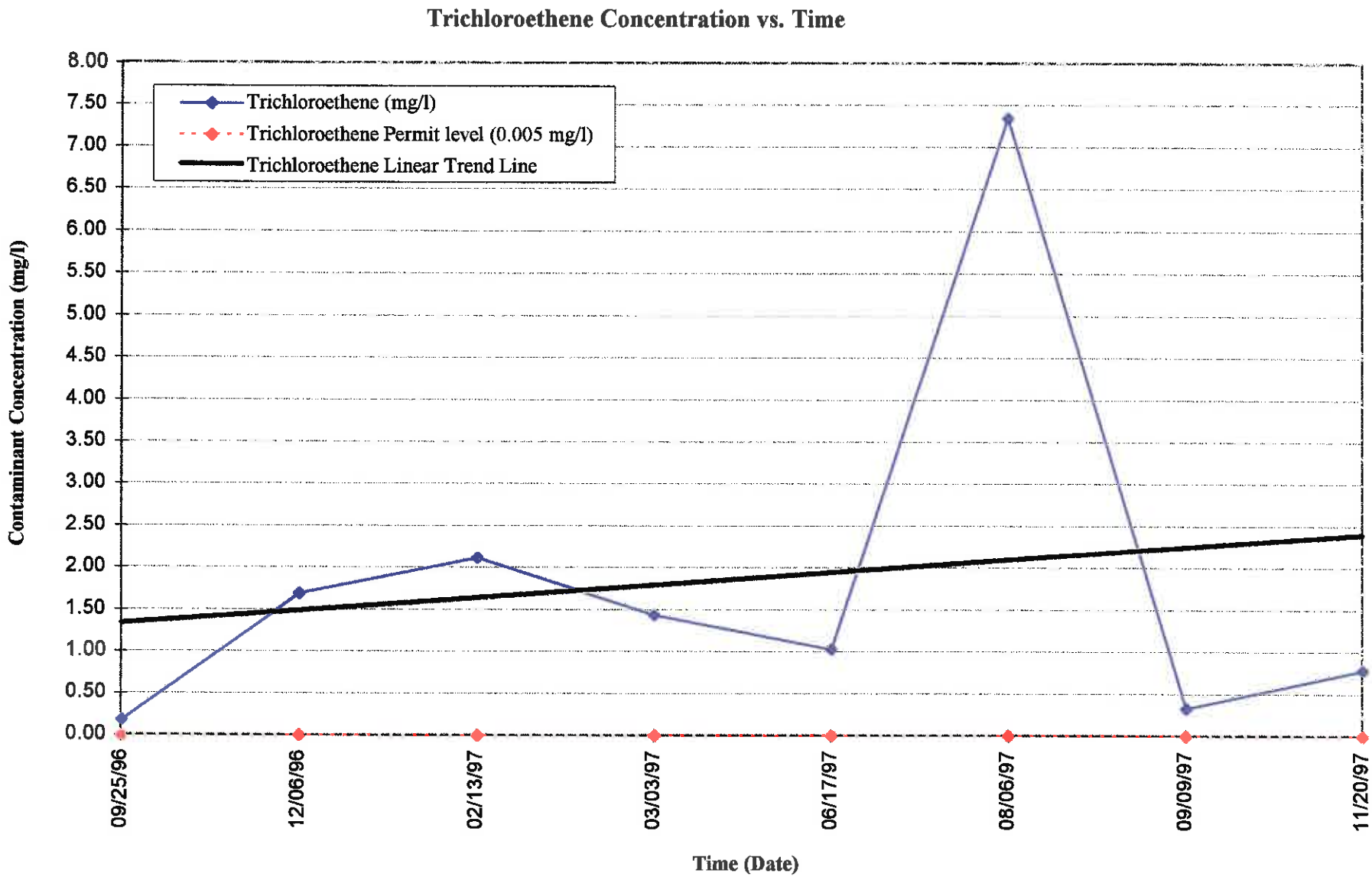
t Distribution, t0.99 = 2.896

Confidence Interval (upper limit)= 2.26493 mg/l

Confidence Interval (lower limit)= 1.26619 mg/l

APPENDIX E

Solutia, Inc.
Nitro, West Virginia
TCE Well # EW-5A



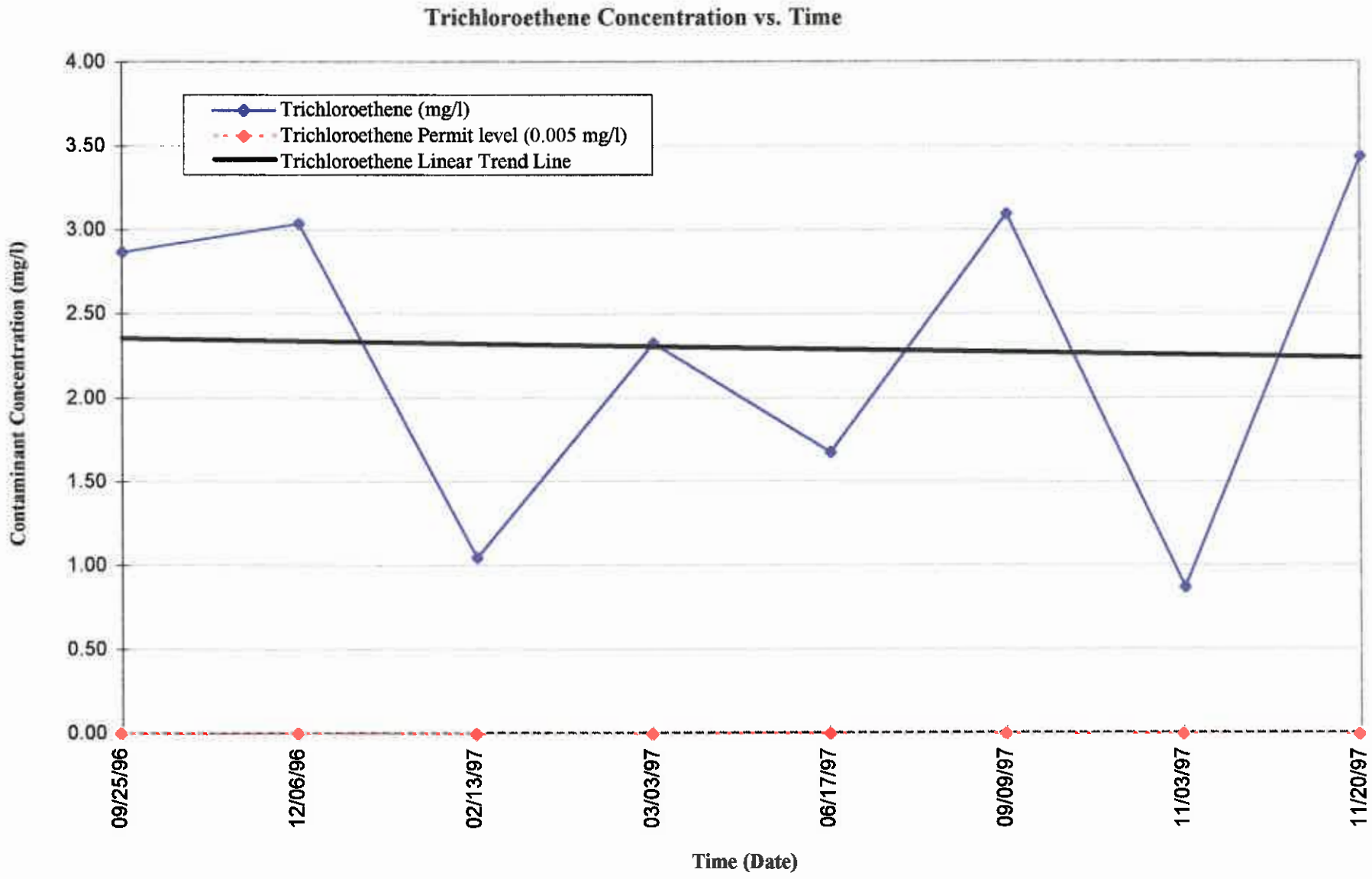
Summary of Ground-Water Analytical Data for TCE Well # EW-5A
Solutia, Inc.
Nitro, West Virginia

Date	Benzene (mg/l)	Carbon Tetrachloride (mg/l)	1,1-Dichloroethene (mg/l)	Ethene (mg/l)	Tetrachloroethene (mg/l)	Trichloroethene (mg/l)	Bis (2-ethyhexyl) phthalate (mg/l)
09/25/96	--	--	--	--	--	0.186	--
12/06/96	--	--	--	--	--	1.700	--
02/13/97	0.036	--	--	--	--	2.120	--
03/03/97	--	--	--	--	--	1.450	--
06/17/97	--	--	--	--	--	1.040	--
08/06/97	0.217	ND	0.006	--	ND	7.360	ND
09/09/97	--	--	--	--	--	0.341	--
11/20/97	--	--	--	--	--	0.797	--

Abbreviations:

mg/l = milligrams per liter
-- = Not Measured
ND = Not Detected

Solutia, Inc.
Nitro, West Virginia
TCE Well # EW-5B



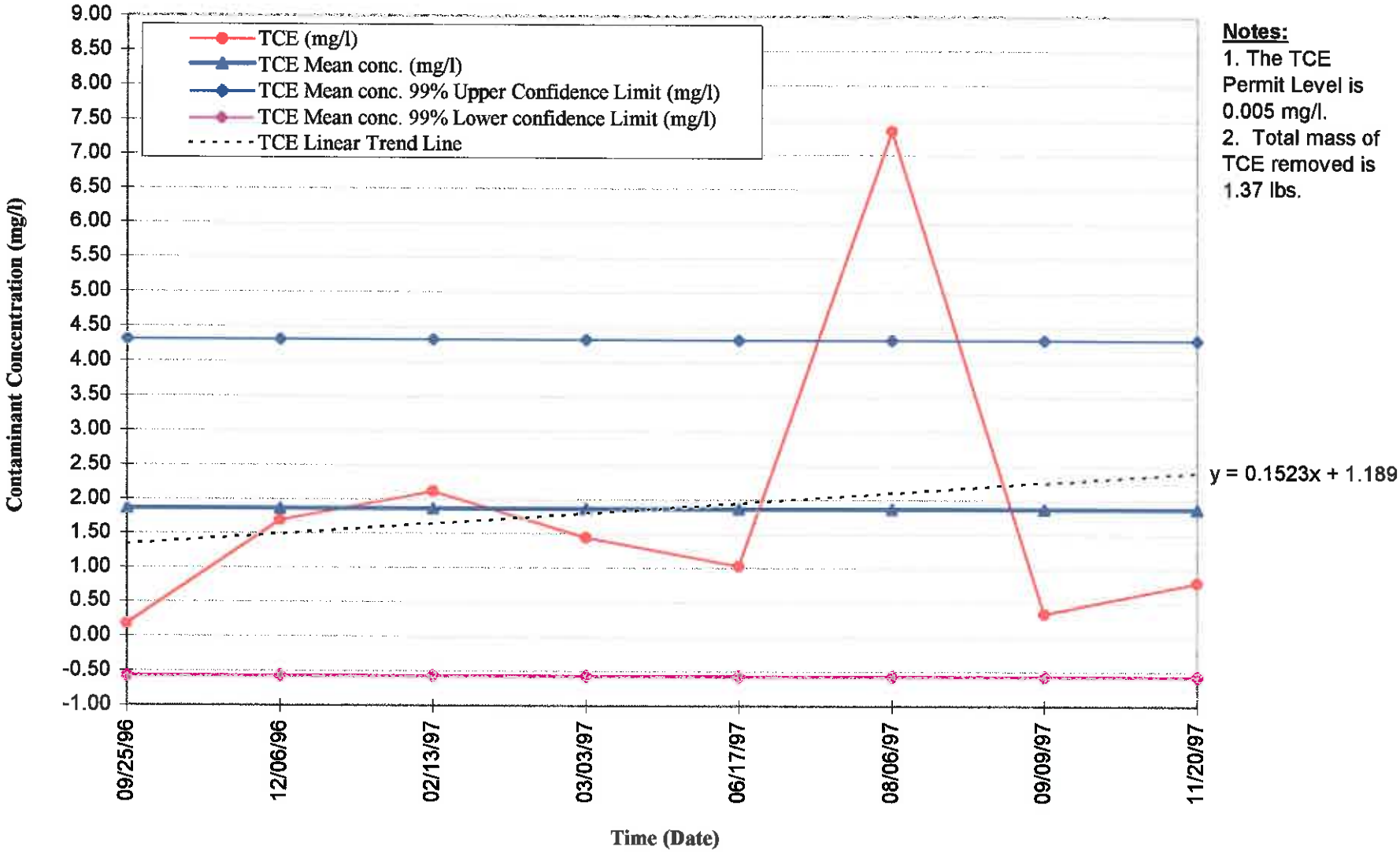
Summary of Ground-Water Analytical Data for TCE Well # EW-5B
Solutia, Inc.
Nitro, West Virginia

Date	Benzene (mg/l)	Carbon Tetrachloride (mg/l)	1,1-Dichloroethene (mg/l)	Ethene (mg/l)	Tetrachloroethene (mg/l)	Trichloroethene (mg/l)	Bis (2-ethyhexyl) phthalate (mg/l)
09/25/96	--	--	--	--	--	2.870	--
12/06/96	--	--	--	--	--	3.040	--
02/13/97	0.030	0.162	--	--	--	1.050	--
03/03/97	--	--	--	--	--	2.330	--
06/17/97	--	--	--	--	--	1.680	--
09/09/97	--	--	--	--	--	3.100	--
11/03/97	0.043	ND	ND	--	ND	0.871	ND
11/20/97	--	--	--	--	--	3.440	--

Abbreviations:

mg/l = milligrams per liter
-- = Not Measured
ND = Not Detected

RCRA Statistical Analysis of EW-5A for Trichloroethene



Notes:
1. The TCE Permit Level is 0.005 mg/l.
2. Total mass of TCE removed is 1.37 lbs.

RCRA Statistical Analysis of EW-5A for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
09/25/96	0.186	1.8743	4.3250	-0.5765
12/06/96	1.700	1.8743	4.3250	-0.5765
02/13/97	2.120	1.8743	4.3250	-0.5765
03/03/97	1.450	1.8743	4.3250	-0.5765
06/17/97	1.040	1.8743	4.3250	-0.5765
08/06/97	7.360	1.8743	4.3250	-0.5765
09/09/97	0.341	1.8743	4.3250	-0.5765
11/20/97	0.797	1.8743	4.3250	-0.5765

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 1.874250 mg/l

Standard Deviation, s= 2.312132025 mg/l

Degrees of Freedom = 7

t Distribution, t0.99 = 2.998

Confidence Interval (upper limit)= 4.32500 mg/l

Confidence Interval (lower limit)= -0.57650 mg/l

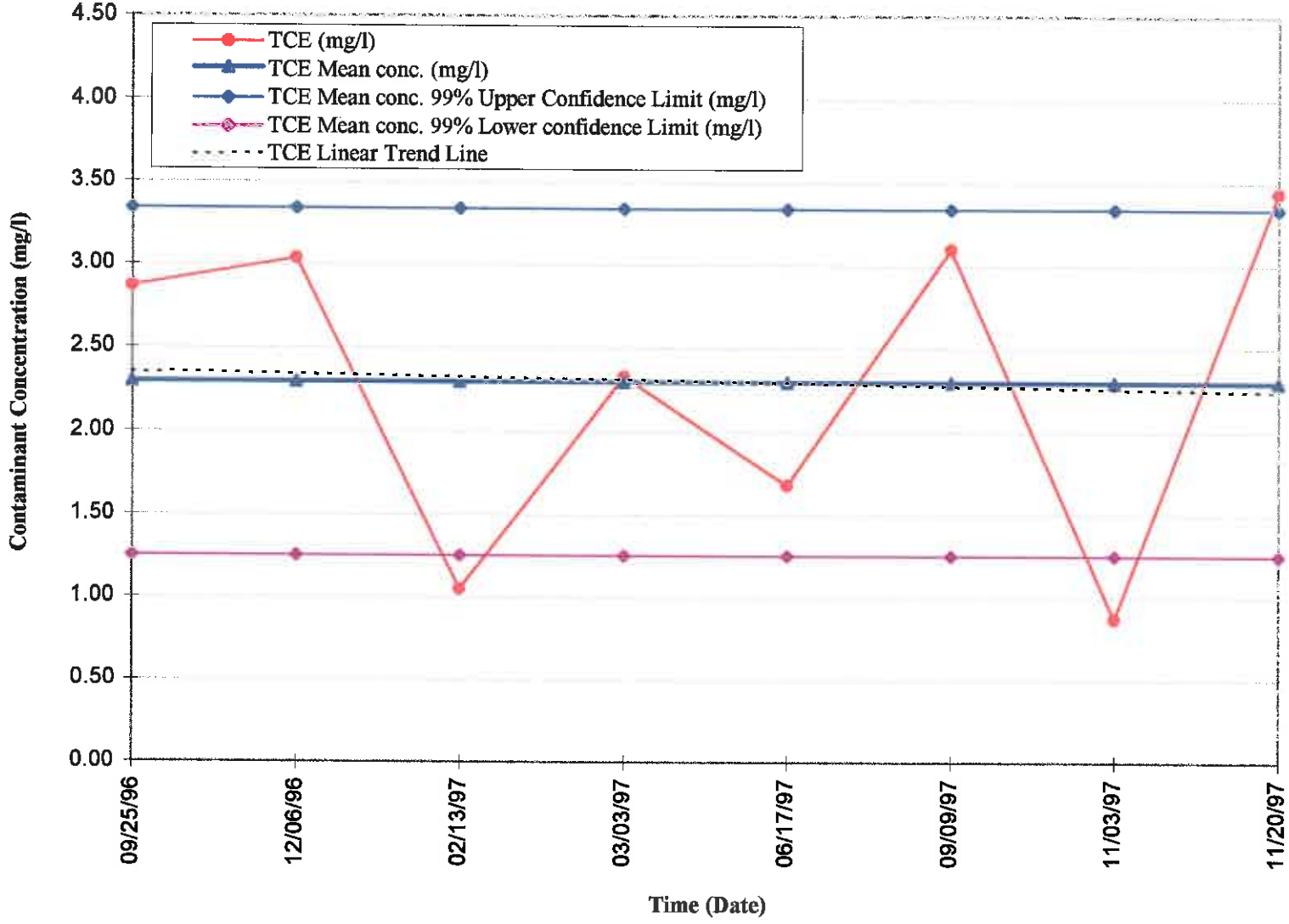
Mass Removal Calculations:

Total gallons pumped = 87,452 gallons

Mean concentration, x = 1.874250 mg/l

Total mass removed = 1.37 Pounds of TCE removed

RCRA Statistical Analysis of EW-5B for Trichloroethene



Notes:

1. The TCE Permit Level is 0.005 mg/l.
2. Total mass of TCE removed is 11.03 lbs.

ROUX ASSOCIATES INC

MO06619J04.27st

RCRA Statistical Analysis of EW-5B for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
09/25/96	2.870	2.2976	3.3425	1.2528
12/06/96	3.040	2.2976	3.3425	1.2528
02/13/97	1.050	2.2976	3.3425	1.2528
03/03/97	2.330	2.2976	3.3425	1.2528
06/17/97	1.680	2.2976	3.3425	1.2528
09/09/97	3.100	2.2976	3.3425	1.2528
11/03/97	0.871	2.2976	3.3425	1.2528
11/20/97	3.440	2.2976	3.3425	1.2528

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 2.297625 mg/l

Standard Deviation, s= 0.985748148 mg/l

Degrees of Freedom = 7

t Distribution, t0.99 = 2.998

Confidence Interval (upper limit)= 3.34247 mg/l

Confidence Interval (lower limit)= 1.25278 mg/l

Mass Removal Calculations:

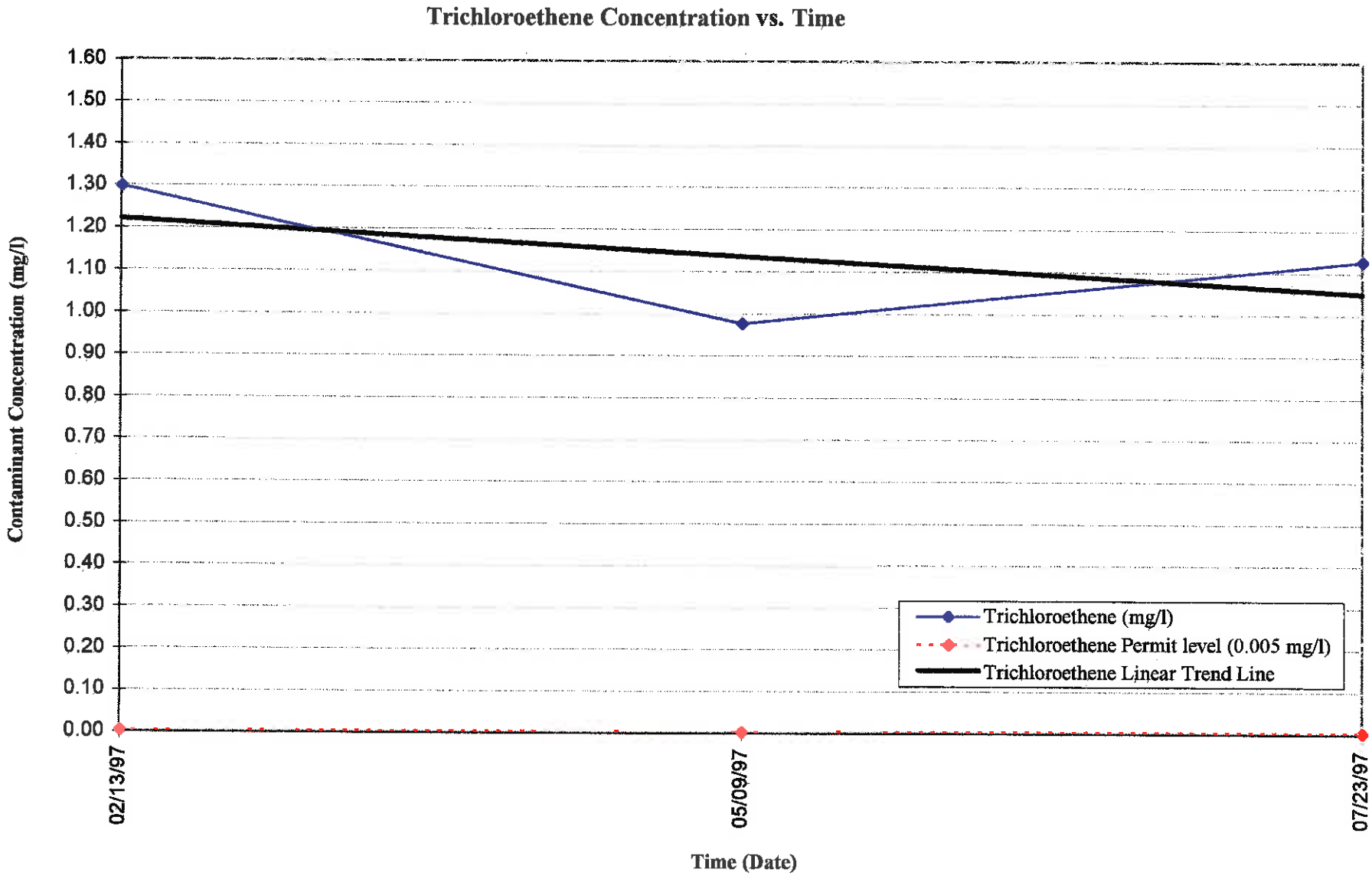
Total gallons pumped = 575,395 gallons

Mean concentration, x = 2.297625 mg/l

Total mass removed = 11.03 Pounds of TCE removed

APPENDIX F

Solutia, Inc.
Nitro, West Virginia
TCE Well # EW-6A



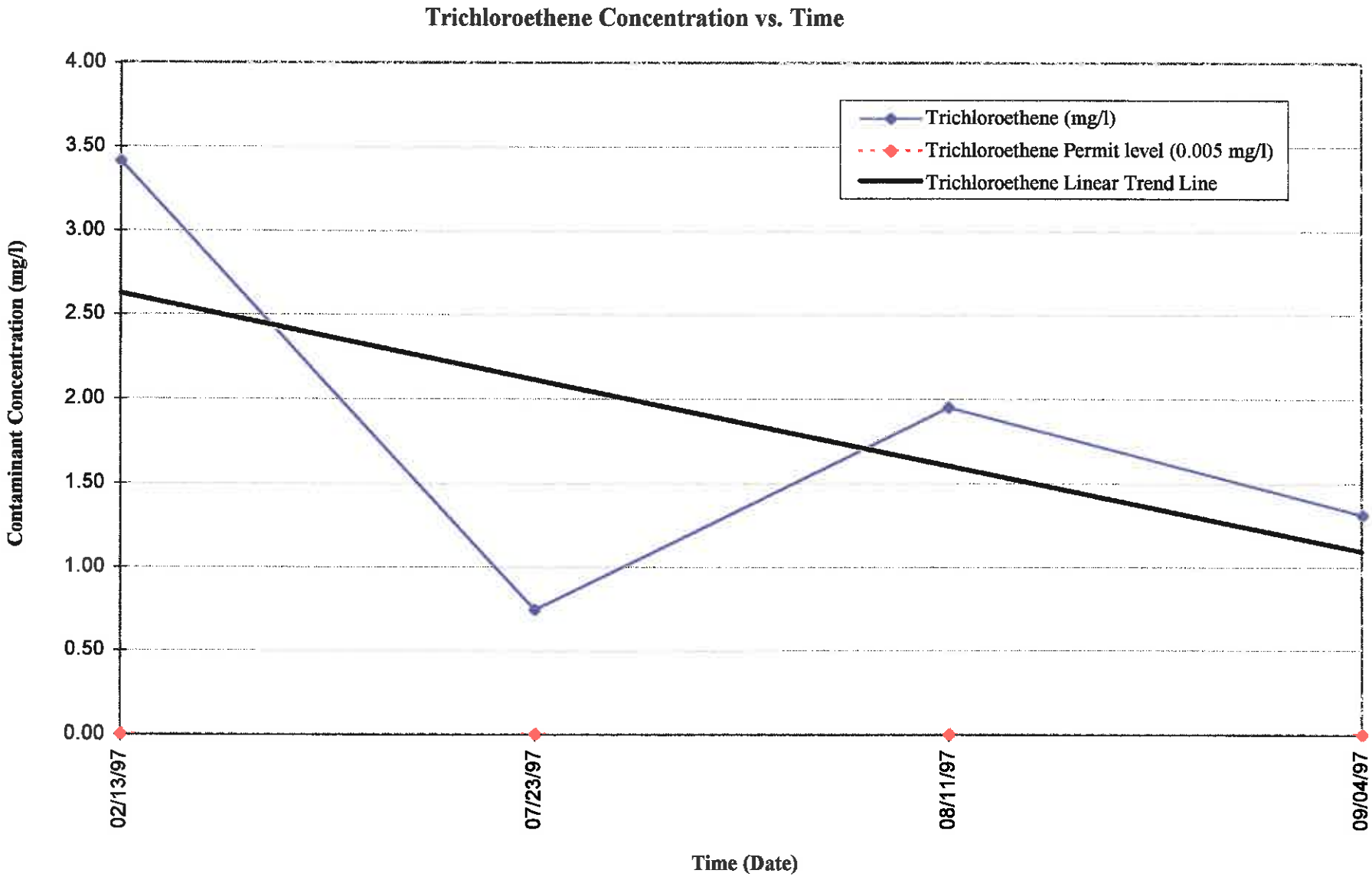
Summary of Ground-Water Analytical Data for TCE Well # EW-6A
Solutia, Inc.
Nitro, West Virginia

Date	Benzene (mg/l)	Carbon Tetrachloride (mg/l)	1,1-Dichloroethene (mg/l)	Ethene (mg/l)	Tetrachloroethene (mg/l)	Trichloroethene (mg/l)	Bis (2-ethyhexyl) phthalate (mg/l)
02/13/97	0.010	--	--	--	--	1.300	--
05/09/97	0.005	0.021	ND	--	ND	0.980	ND
07/23/97	0.046	0.060	0.007	--	ND	1.130	--

Abbreviations:

mg/l = milligrams per liter
-- = Not Measured
ND = Not Detected

Solutia, Inc.
Nitro, West Virginia
TCE Well # EW-6B



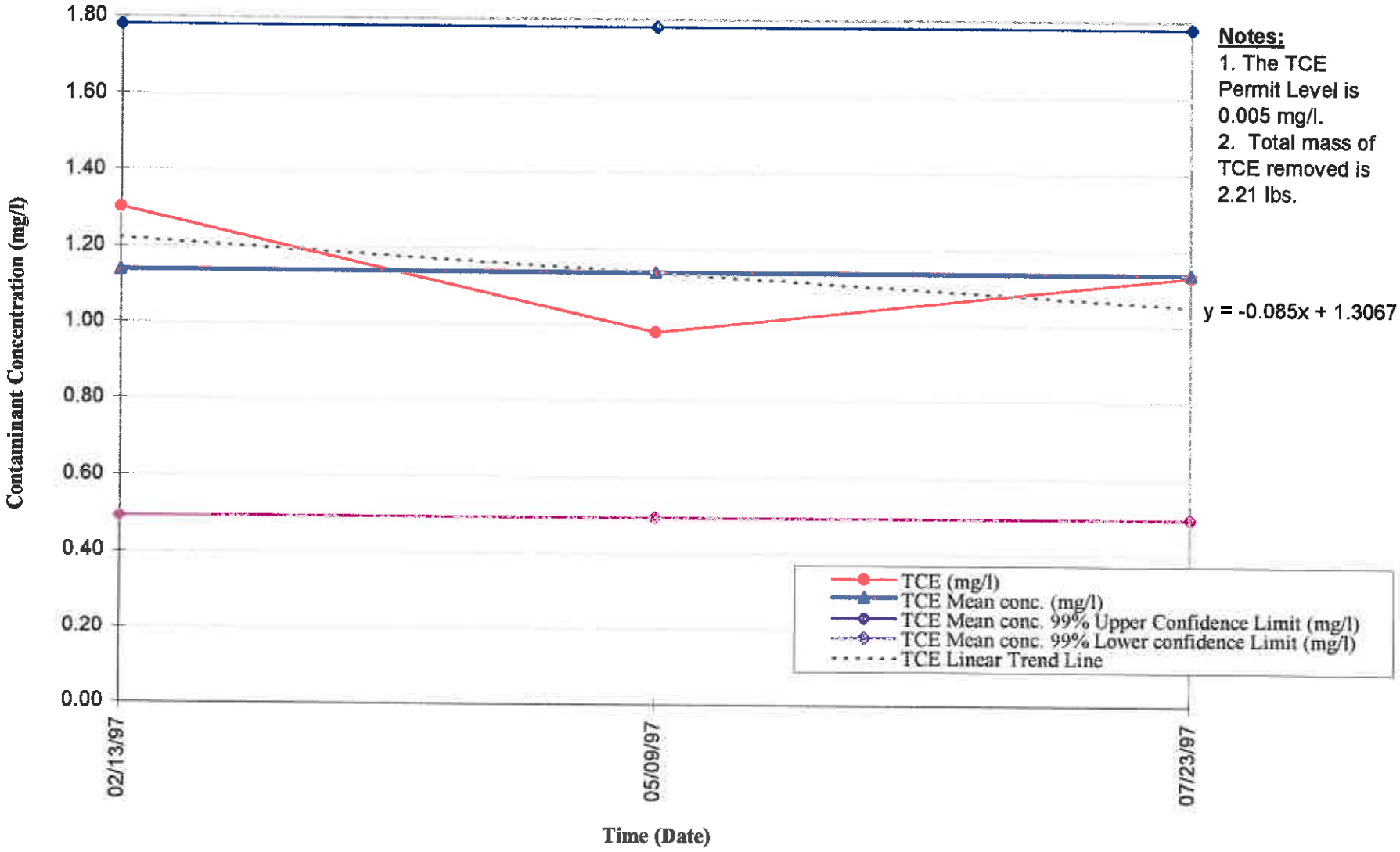
Summary of Ground-Water Analytical Data for TCE Well # EW-6B
Solutia, Inc.
Nitro, West Virginia

Date	Benzene (mg/l)	Carbon Tetrachloride (mg/l)	1,1-Dichloroethene (mg/l)	Ethene (mg/l)	Tetrachloroethene (mg/l)	Trichloroethene (mg/l)	Bis (2-ethyhexyl) phthalate (mg/l)
02/13/97	0.041	--	--	--	--	3.420	--
07/23/97	0.005	0.023	ND	--	ND	0.752	--
08/11/97	0.051	0.048	0.006	--	ND	1.960	ND
09/04/97	0.061	0.065	ND	--	ND	1.320	ND

Abbreviations:

mg/l = milligrams per liter
-- = Not Measured
ND = Not Detected

RCRA Statistical Analysis of EW-6A for Trichloroethene



Notes:
1. The TCE Permit Level is 0.005 mg/l.
2. Total mass of TCE removed is 2.21 lbs.

RCRA Statistical Analysis of EW-6A for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
02/13/97	1.300	1.1367	1.7805	0.4928
05/09/97	0.980	1.1367	1.7805	0.4928
07/23/97	1.130	1.1367	1.7805	0.4928

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 1.136667 mg/l

Standard Deviation, s= 0.160104133 mg/l

Degrees of Freedom = 2

t Distribution, t0.99 = 6.965

Confidence Interval (upper limit)= 1.78048 mg/l

Confidence Interval (lower limit)= 0.49285 mg/l

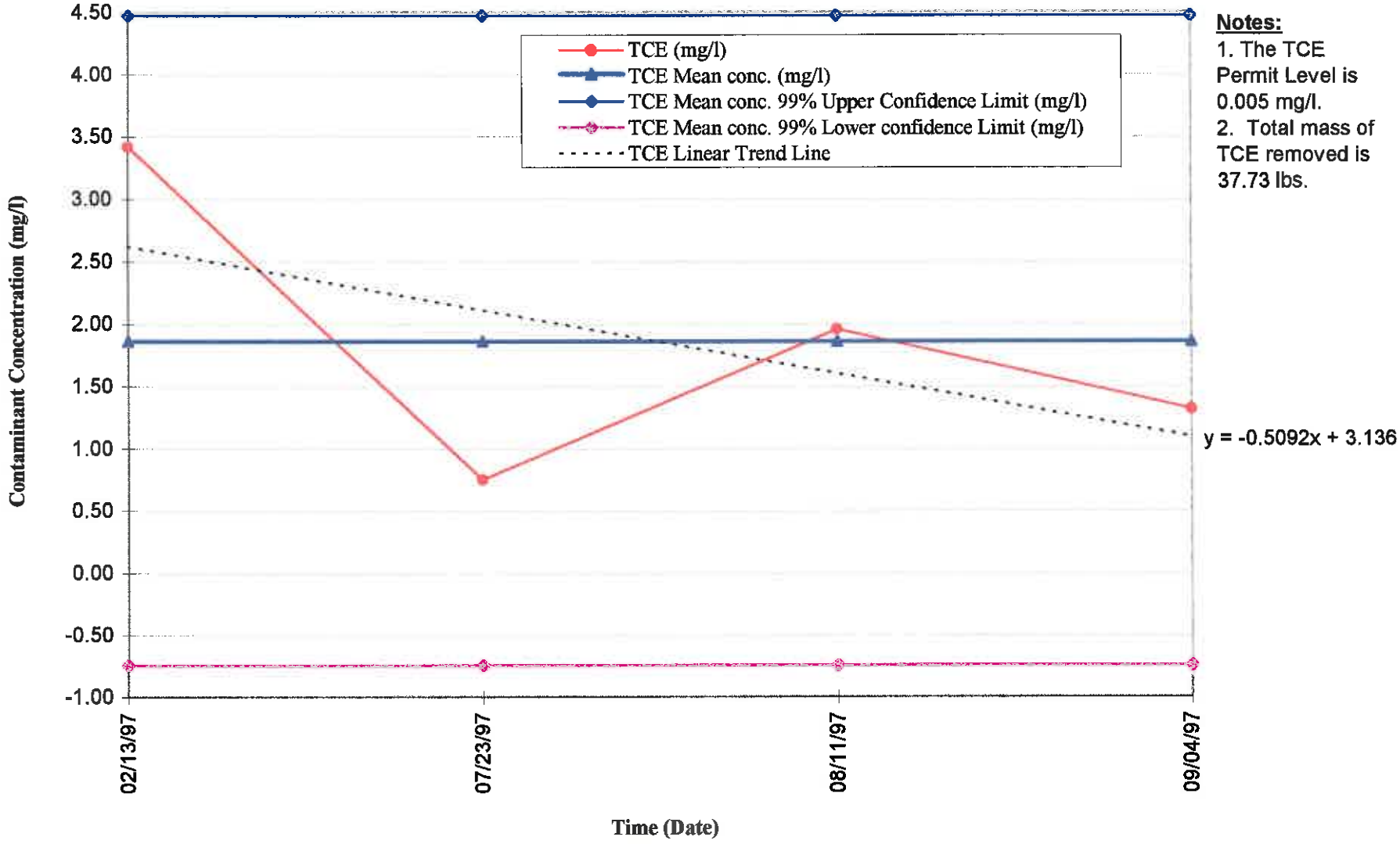
Mass Removal Calculations:

Total gallons pumped = 232,767 gallons

Mean concentration, x = 1.136667 mg/l

Total mass removed = 2.21 Pounds of TCE removed

RCRA Statistical Analysis of EW-6B for Trichloroethene



Notes:
1. The TCE Permit Level is 0.005 mg/l.
2. Total mass of TCE removed is 37.73 lbs.

RCRA Statistical Analysis of EW-6B for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
02/13/97	3.420	1.8630	4.4725	-0.7465
07/23/97	0.752	1.8630	4.4725	-0.7465
08/11/97	1.960	1.8630	4.4725	-0.7465
09/04/97	1.320	1.8630	4.4725	-0.7465

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 1.863000 mg/l

Standard Deviation, s= 1.149322699 mg/l

Degrees of Freedom = 3

t Distribution, t0.99 = 4.541

Confidence Interval (upper limit)= 4.47254 mg/l

Confidence Interval (lower limit)= -0.74654 mg/l

Mass Removal Calculations:

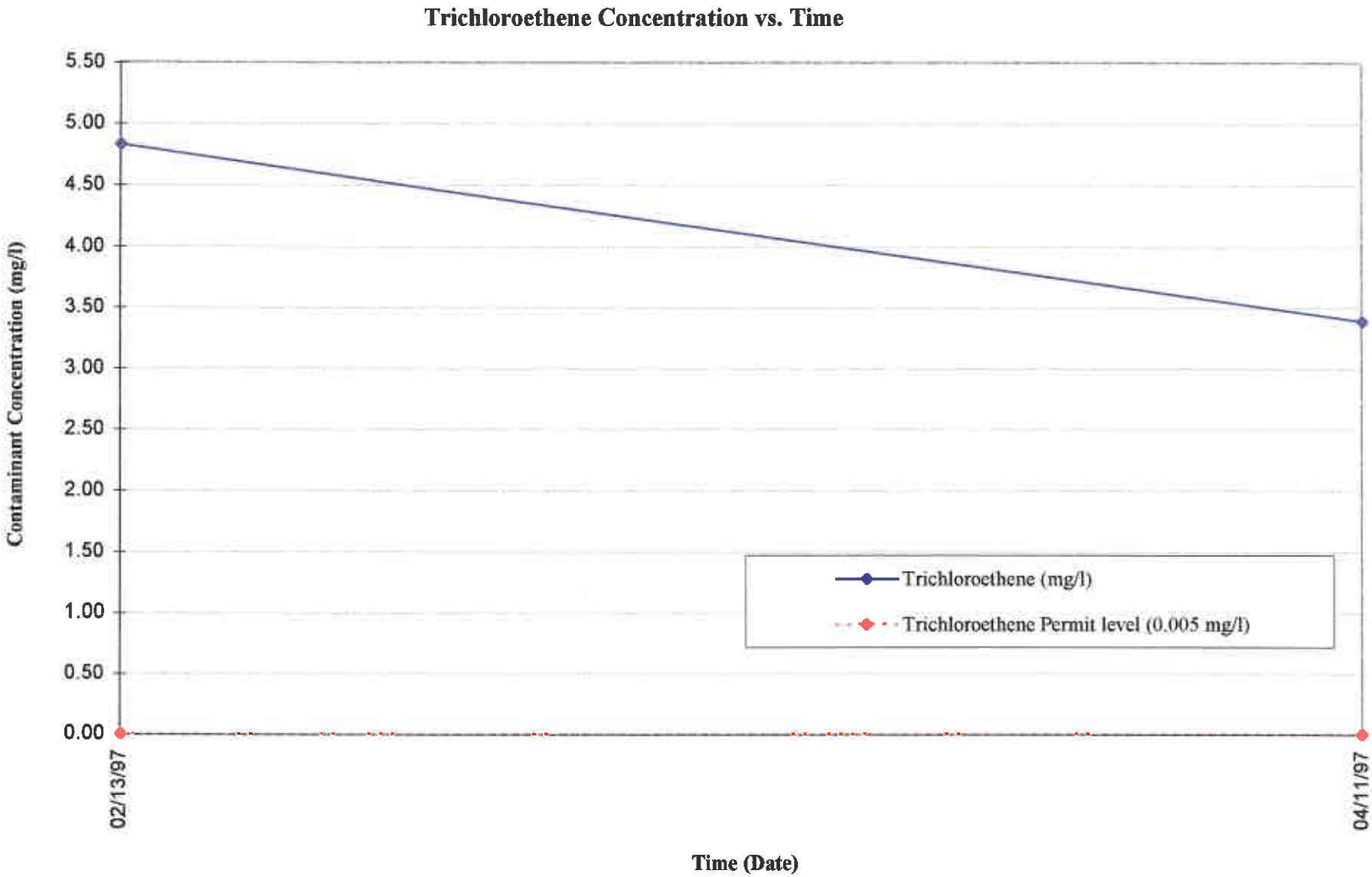
Total gallons pumped = 2,426,537 gallons

Mean concentration, x = 1.863000 mg/l

Total mass removed = 37.73 Pounds of TCE removed

APPENDIX G

Solutia, Inc.
Nitro, West Virginia
TCE Well # EW-7A



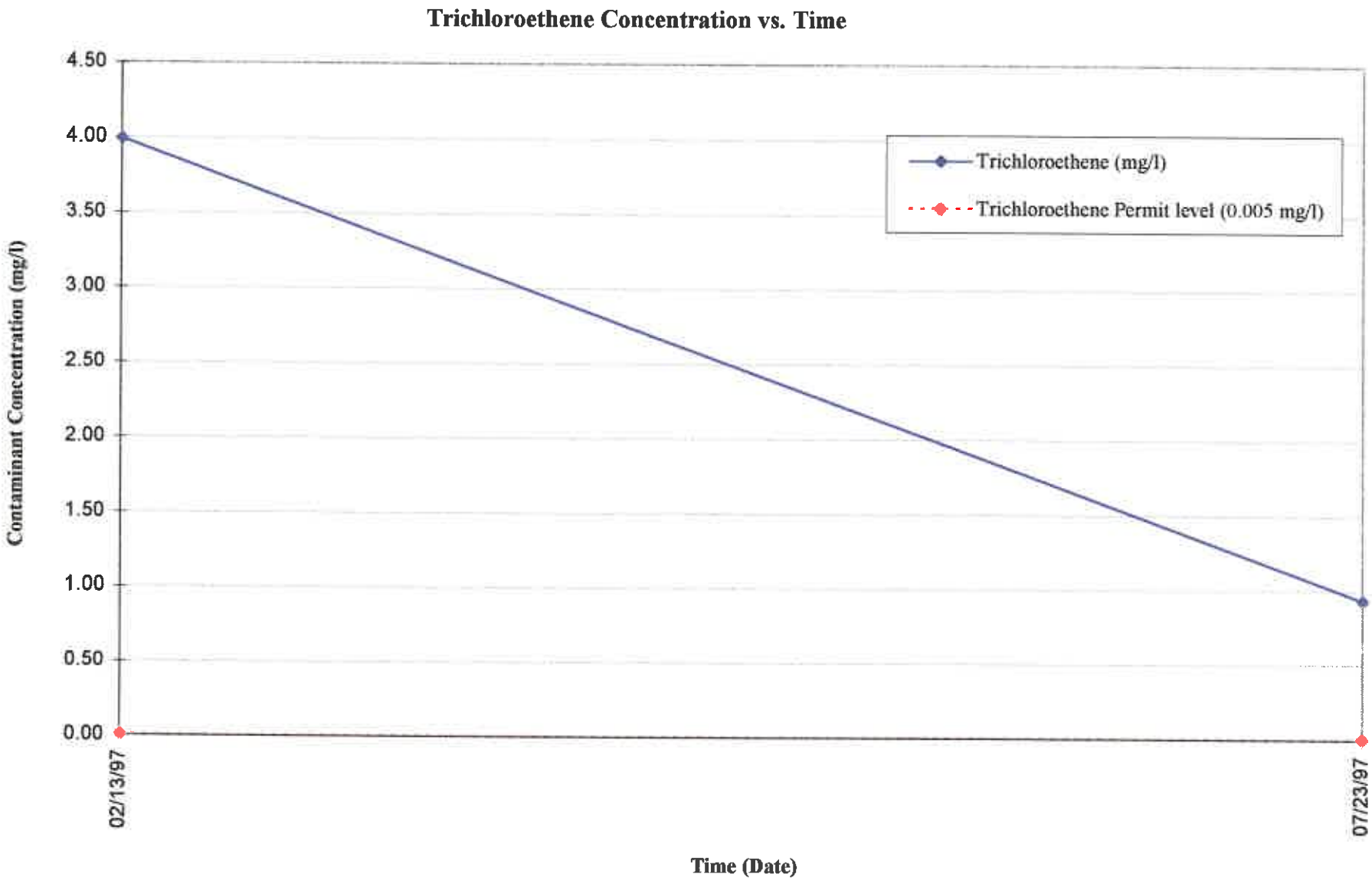
Summary of Ground-Water Analytical Data for TCE Well # EW-7A
Solutia, Inc.
Nitro, West Virginia

Date	Benzene (mg/l)	Carbon Tetrachloride (mg/l)	1,1-Dichloroethene (mg/l)	Ethene (mg/l)	Tetrachloroethene (mg/l)	Trichloroethene (mg/l)	Bis (2-ethyhexyl) phthalate (mg/l)
02/13/97	0.032	--	--	--	--	4.840	--
04/11/97	0.027	ND	ND	--	ND	3.400	ND

Abbreviations:

mg/l = milligrams per liter
-- = Not Measured
ND = Not Detected

Solutia, Inc.
Nitro, West Virginia
TCE Well # EW-7B



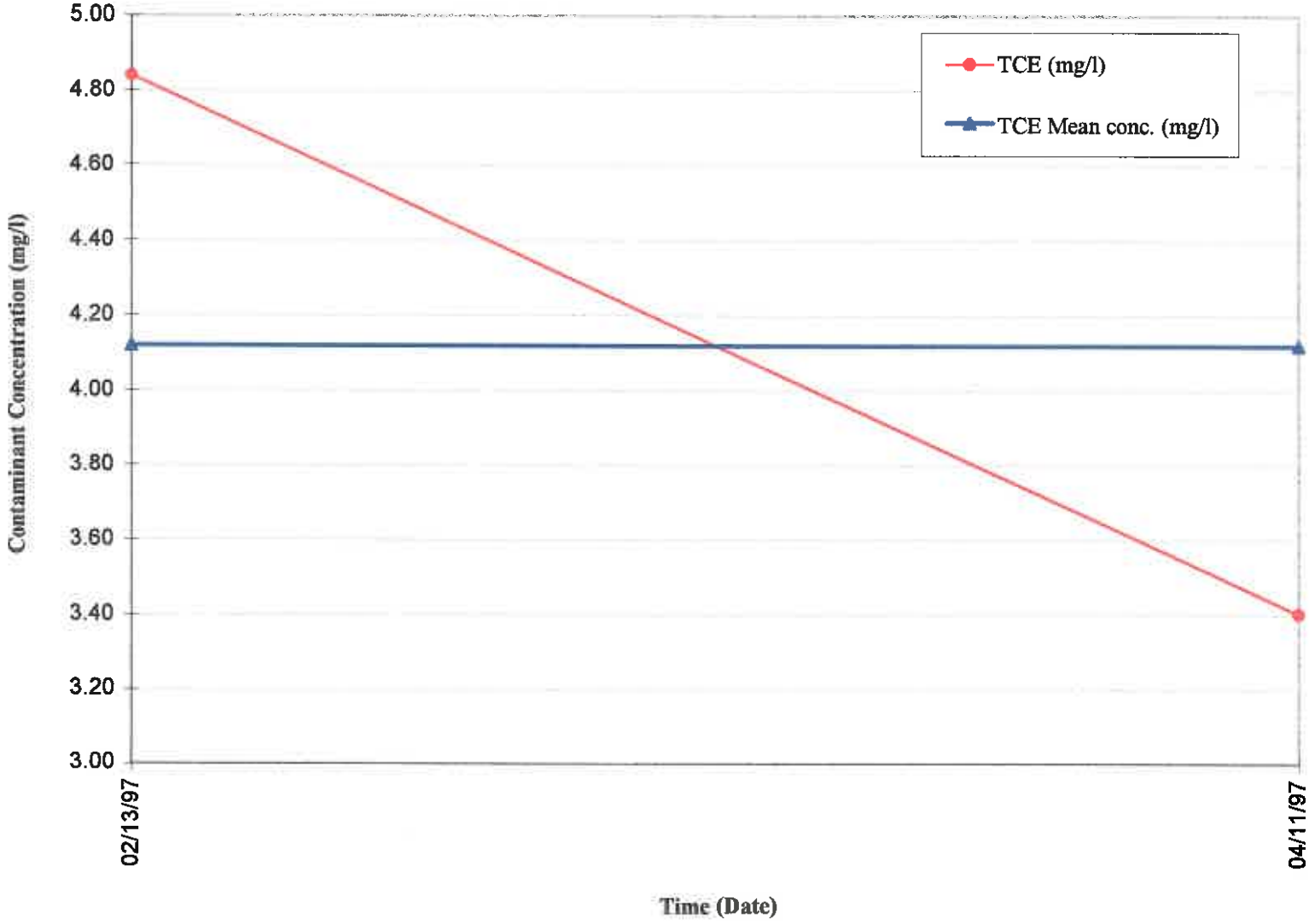
Summary of Ground-Water Analytical Data for TCE Well # EW-7B
Solutia, Inc.
Nitro, West Virginia

Date	Benzene (mg/l)	Carbon Tetrachloride (mg/l)	1,1-Dichloroethene (mg/l)	Ethene (mg/l)	Tetrachloroethene (mg/l)	Trichloroethene (mg/l)	Bis (2-ethyhexyl) phthalate (mg/l)
02/13/97	0.022	--	--	--	--	4.000	--
07/23/97	0.059	--	--	--	--	0.942	--

Abbreviations:

mg/l = milligrams per liter
-- = Not Measured
ND = Not Detected

RCRA Statistical Analysis of EW-7A for Trichloroethene



Notes:

1. The TCE Permit Level is 0.005 mg/l.
2. Total mass of TCE removed is 4.05 lbs.
3. The lower confidence level is -18.79 mg/l and the upper confidence level is 27.03 mg/l.

RCRA Statistical Analysis of EW-7A for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
02/13/97	4.840	4.1200	27.0311	-18.7911
04/11/97	3.400	4.1200	27.0311	-18.7911

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 4.120000 mg/l

Standard Deviation, s= 1.018233765 mg/l

Degrees of Freedom = 1

t Distribution, t0.99 = 31.821

Confidence Interval (upper limit)= 27.03112 mg/l

Confidence Interval (lower limit)= -18.79112 mg/l

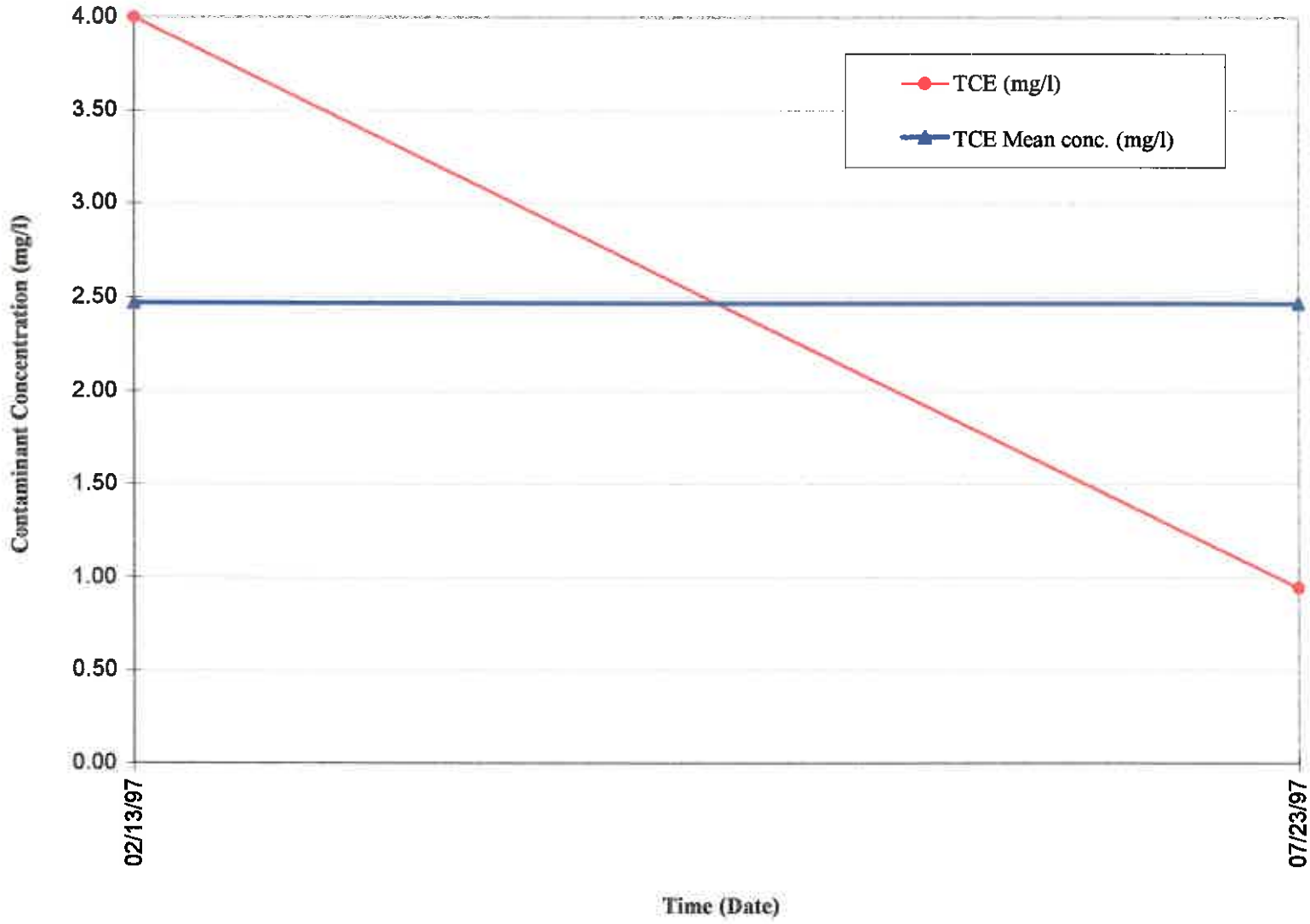
Mass Removal Calculations:

Total gallons pumped = 117,652 gallons

Mean concentration, x = 4.120000 mg/l

Total mass removed = 4.05 Pounds of TCE removed

RCRA Statistical Analysis of EW-7B for Trichloroethene



Notes:

1. The TCE Permit Level is 0.005 mg/l.
2. Total mass of TCE removed is 111.75 lbs.
3. The lower confidence level is -46.18 mg/l and the upper confidence level is 51.13 mg/l.

RCRA Statistical Analysis of EW-7B for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
02/13/97	4.000	2.4710	51.1253	-46.1833
07/23/97	0.942	2.4710	51.1253	-46.1833

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 2.471000 mg/l

Standard Deviation, s= 2.162332537 mg/l

Degrees of Freedom = 1

t Distribution, t0.99 = 31.821

Confidence Interval (upper limit)= 51.12531 mg/l

Confidence Interval (lower limit)= -46.18331 mg/l

Mass Removal Calculations:

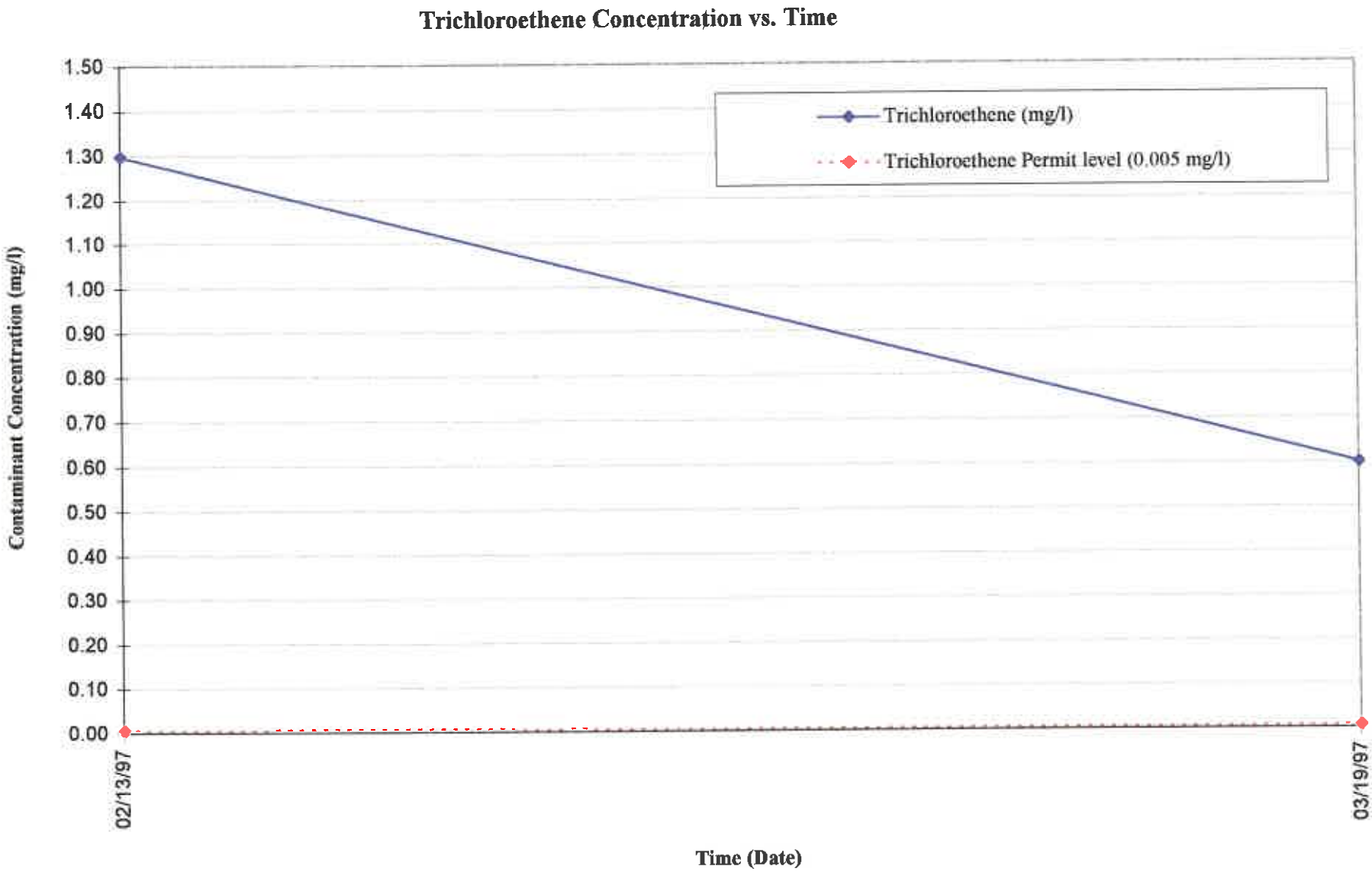
Total gallons pumped = 5,418,879 gallons

Mean concentration, x = 2.471000 mg/l

Total mass removed = 111.75 Pounds of TCE removed

APPENDIX H

Solutia, Inc.
Nitro, West Virginia
TCE Well # EW-8



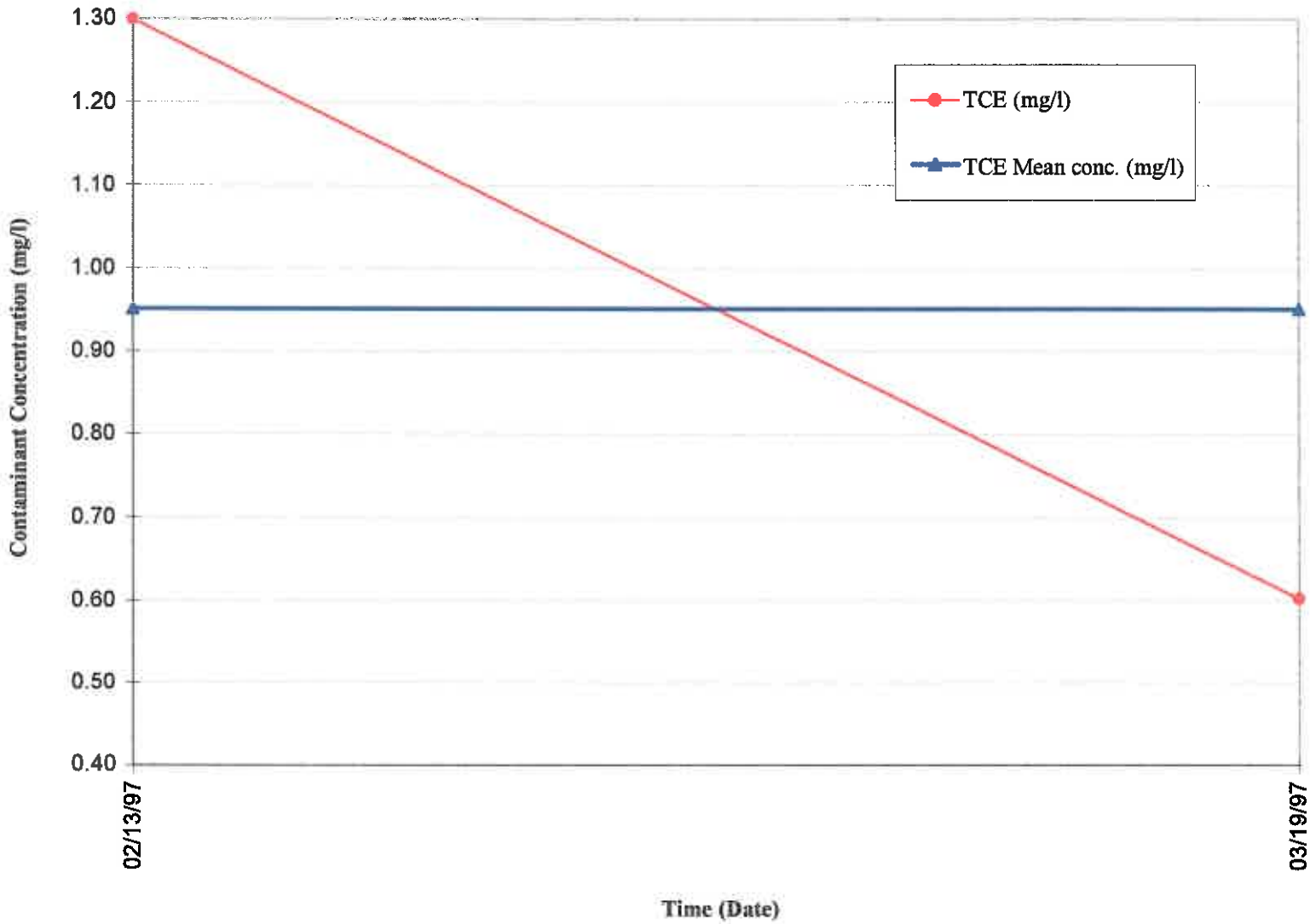
Summary of Ground-Water Analytical Data for TCE Well # EW-8
Solutia, Inc.
Nitro, West Virginia

Date	Benzene (mg/l)	Carbon Tetrachloride (mg/l)	1,1-Dichloroethene (mg/l)	Ethene (mg/l)	Tetrachloroethene (mg/l)	Trichloroethene (mg/l)	Bis (2-ethyhexyl) phthalate (mg/l)
02/13/97	0.028	--	--	--	--	1.300	--
03/19/97	0.014	0.880	ND	--	ND	0.602	ND

Abbreviations:

mg/l = milligrams per liter
-- = Not Measured
ND = Not Detected

RCRA Statistical Analysis of EW-8 for Trichloroethene



Notes:

1. The TCE Permit Level is 0.005 mg/l.
2. Total mass of TCE removed is 0.41 lbs.
3. The lower confidence level is -10.15 mg/l and the upper confidence level

RCRA Statistical Analysis of EW-8 for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
02/13/97	1.300	0.9510	12.0565	-10.1545
03/19/97	0.602	0.9510	12.0565	-10.1545

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 0.951000 mg/l

Standard Deviation, s= 0.493560533 mg/l

Degrees of Freedom = 1

t Distribution, t0.99 = 31.821

Confidence Interval (upper limit)= 12.05653 mg/l

Confidence Interval (lower limit)= -10.15453 mg/l

Mass Removal Calculations:

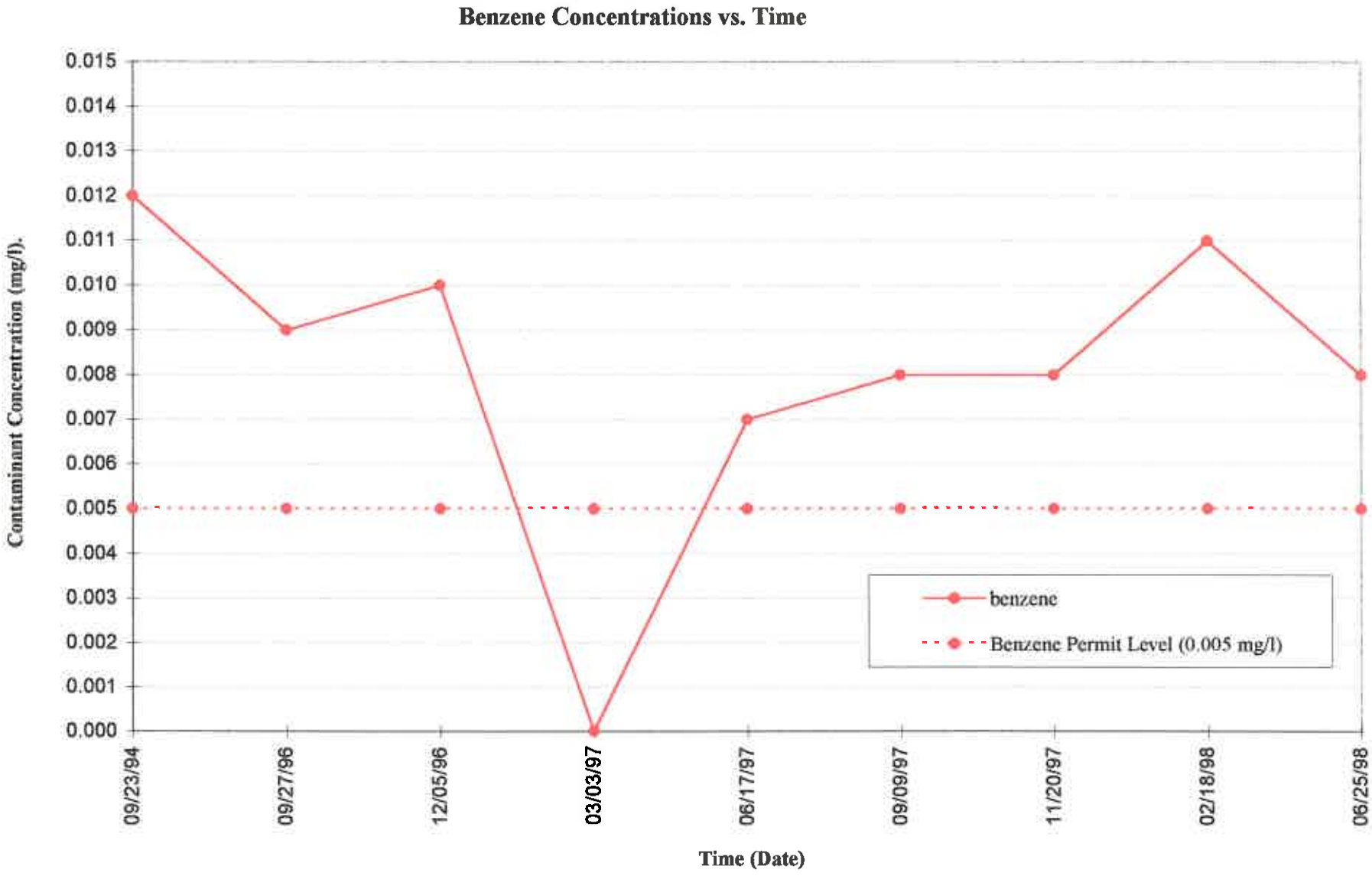
Total gallons pumped = 51,100 gallons

Mean concentration, x = 0.951000 mg/l

Total mass removed = 0.41 Pounds of TCE removed

APPENDIX I

Solutia, Inc.
Nitro, West Virginia
Bio-Sparge Area Well # WT-15A



Summary of Ground-Water Data for Bio-Sparge Area Well # WT-15A
Solutia, Inc.
Nitro, West Virginia

Date Parameter	09/23/94	09/27/96	12/05/96	03/03/97	06/17/97	09/09/97
phenol	ND	ND	ND	ND	ND	ND
2-chlorophenol	NA	ND	ND	ND	ND	ND
2-nitrophenol	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	ND	ND	ND	ND	ND	ND
4-chloro,3-methylphenol	ND	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	NA	ND	ND	ND	ND	ND
4-nitrophenol	ND	ND	ND	ND	ND	ND
2-methyl,4,6-dinitrophenol	NA	ND	ND	ND	ND	ND
pentachlorophenol	NA	ND	ND	ND	ND	ND
o-cresol	NA	ND	ND	ND	ND	ND
m,p-cresol	NA	ND	ND	ND	ND	ND
2,4,5-trichlorophenol	ND	NA	NA	NA	NA	ND
benzene	0.012	0.009	0.010	ND	0.007	0.008
Dissolved Oxygen	8.90	--	--	--	--	--
pH (SU)	5.93	--	--	--	--	--
Oxygen Redox Potential	--	--	--	--	--	--
Temperature (deg.C)	--	--	--	--	--	--
Ground-Water Elevation (ft.MSL)	--	--	582.28	582.23	580.11	580.01

Notes:

1. All results are in milligrams per liter (mg/l) unless otherwise indicated.

Abbreviations:

SU = Standard Units
deg.C = degrees Celsius
-- = Not Sampled
ND = Not Detected
ft.MSL = feet above Mean Sea Level
NA = Not Analyzed

Summary of Ground-Water Data for Bio-Sparge Area Well # WT-15A
Solutia, Inc.
Nitro, West Virginia

Date Parameter	11/20/97	02/18/98	06/25/98
phenol	ND	ND	ND
2-chlorophenol	ND	ND	ND
2-nitrophenol	ND	ND	ND
2,4-dimethylphenol	ND	ND	ND
2,4-dichlorophenol	ND	ND	ND
4-chloro,3-methylphenol	ND	ND	ND
2,4,6-trichlorophenol	ND	ND	ND
2,4-dinitrophenol	ND	ND	ND
4-nitrophenol	ND	ND	ND
2-methyl,4,6-dinitrophenol	ND	ND	ND
pentachlorophenol	ND	ND	ND
o-cresol	ND	ND	ND
m,p-cresol	ND	ND	ND
2,4,5-trichlorophenol	ND	ND	ND
benzene	0.008	0.011	0.008
Dissolved Oxygen	--	--	--
pH (SU)	6.57	--	--
Oxygen Redox Potential	--	--	--
Temperature (deg.C)	17.30	--	--
Ground-Water Elevation (ft.MSL)	579.17	579.73	581.29

Notes:

1. All results are in milligrams per liter (mg/l) unless otherwise indicated.

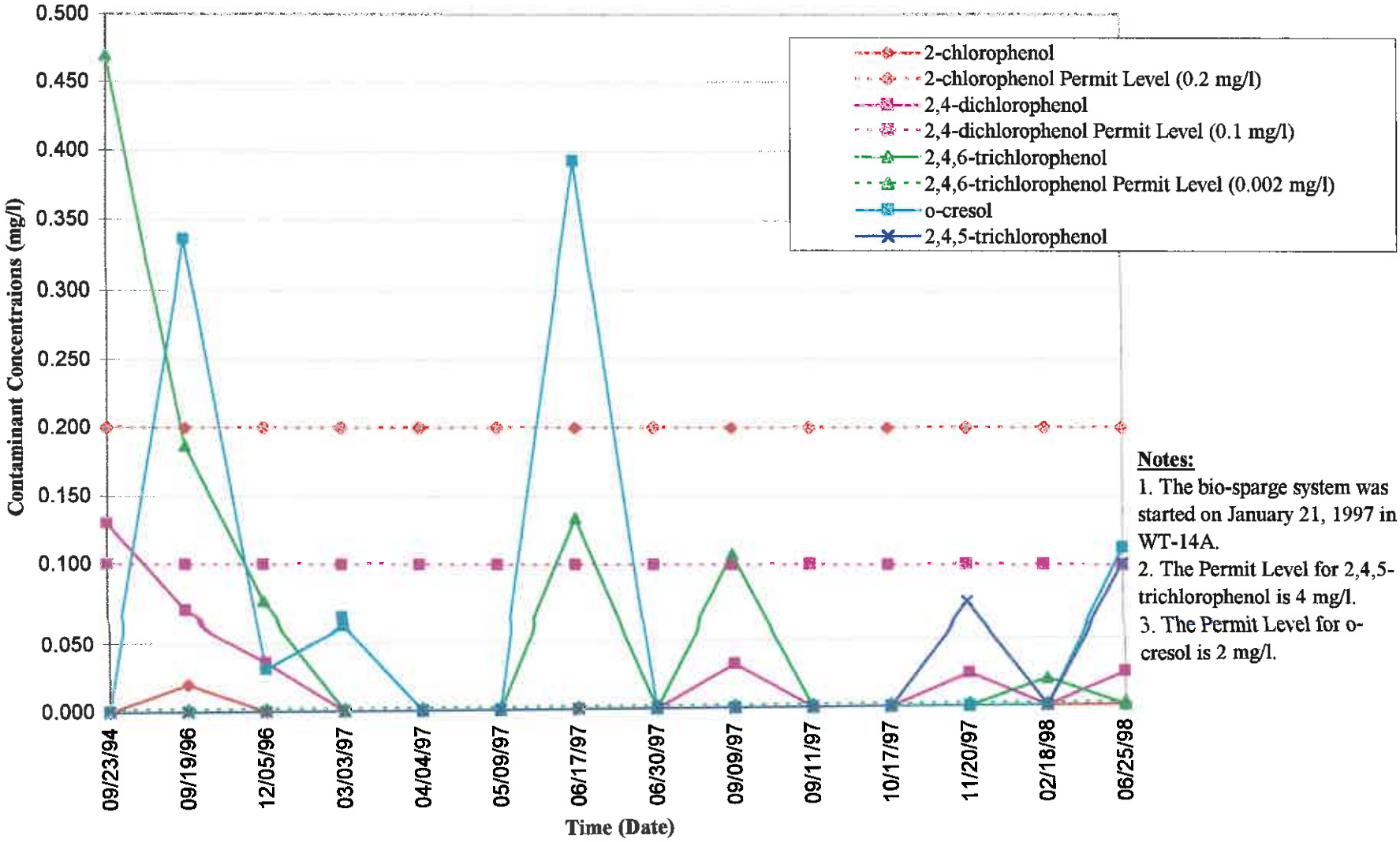
Abbreviations:

SU = Standard Units
deg.C = degrees Celsius
-- = Not Sampled
ND = Not Detected
ft.MSL = feet above Mean Sea Level
NA = Not Analyzed

APPENDIX J

Solutia, Inc.
Nitro, West Virginia
Bio-Sparge Area Well #WT-14A(1)

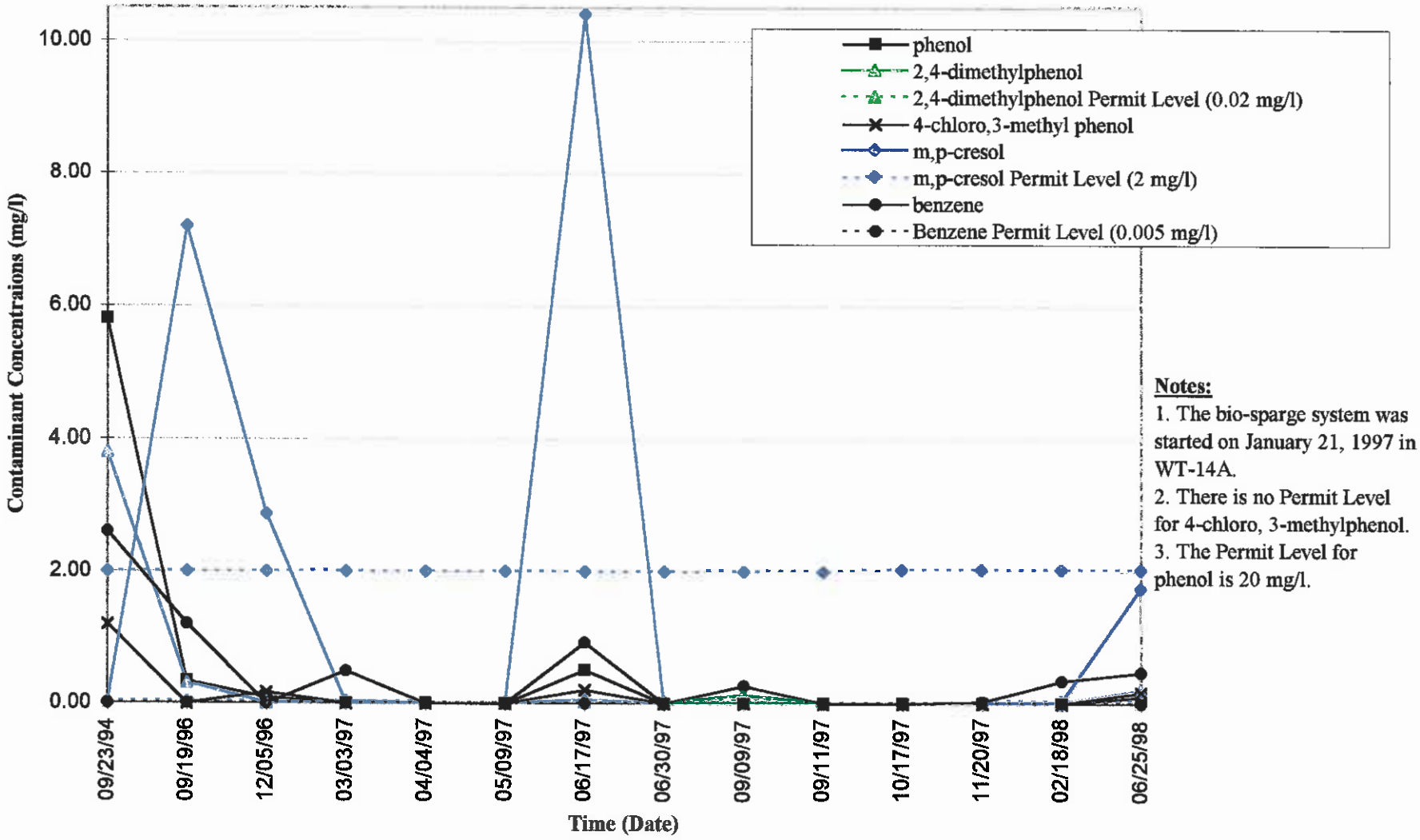
Contaminant Concentrations vs. Time



Notes:
1. The bio-sparge system was started on January 21, 1997 in WT-14A.
2. The Permit Level for 2,4,5-trichlorophenol is 4 mg/l.
3. The Permit Level for o-cresol is 2 mg/l.

Solutia, Inc.
Nitro, West Virginia
Bio-Sparge Area Well #WT-14A(2)

Contaminant Concentrations vs. Time



Notes:
1. The bio-sparge system was started on January 21, 1997 in WT-14A.
2. There is no Permit Level for 4-chloro, 3-methylphenol.
3. The Permit Level for phenol is 20 mg/l.

Summary of Ground-Water Data for Bio-Sparge Area Well # WT-14A
Solutia, Inc.
Nitro, West Virginia

Date Parameter	09/23/94	09/19/96	12/05/96	03/03/97	04/04/97	05/09/97
phenol	5.800	0.341	0.089	ND	--	--
2-chlorophenol	NA	0.020	ND	ND	--	--
2-nitrophenol	ND	ND	ND	ND	--	--
2,4-dimethylphenol	3.800	0.307	ND	0.032	--	--
2,4-dichlorophenol	0.130	0.067	0.036	ND	--	--
4-chloro,3-methyl phenol	1.200	ND	0.167	ND	--	--
2,4,6-trichlorophenol	0.470	0.187	0.074	ND	--	--
2,4-dinitrophenol	NA	ND	ND	ND	--	--
4-nitrophenol	ND	ND	ND	ND	--	--
2-methyl,4,6-dinitrophenol	NA	ND	ND	ND	--	--
pentachlorophenol	NA	ND	ND	ND	--	--
o-cresol	NA	0.336	0.031	0.062	--	--
m,p-cresol	NA	7.200	2.870	ND	--	--
2,4,5-trichlorophenol	ND	NA	NA	NA	--	--
benzene	2.600	1.210	ND	0.496	--	--
Dissolved Oxygen	0.30	--	--	--	1.860	6.890
pH (SU)	8.26	--	--	--	8.140	8.090
Oxygen Redox Potential	--	--	--	--	28.700	151.500
Temperature (deg.C)	--	--	--	--	16.580	16.920
Ground-Water Elevation (ft.MSL)	--	--	571.820	572.050	--	--

Notes:

1. All results are in milligrams per liter (mg/l) unless otherwise indicated.

Abbreviations:

SU = Standard Units
deg.C = degrees Celsius
-- = Not Sampled
ND = Not Detected
ft.MSL = feet above Mean Sea Level
NA= Not Alalyzed

Summary of Ground-Water Data for Bio-Sparge Area Well # WT-14A
Solutia, Inc.
Nitro, West Virginia

Date Parameter	06/17/97	06/30/97	09/09/97	09/11/97	10/17/97	11/20/97
phenol	0.509	--	ND	--	--	ND
2-chlorophenol	ND	--	ND	--	--	ND
2-nitrophenol	ND	--	ND	--	--	ND
2,4-dimethylphenol	0.058	--	0.097	--	--	ND
2,4-dichlorophenol	ND	--	0.032	--	--	0.024
4-chloro,3-methyl phenol	0.206	--	ND	--	--	ND
2,4,6-trichlorophenol	0.134	--	0.108	--	--	ND
2,4-dinitrophenol	ND	--	ND	--	--	ND
4-nitrophenol	ND	--	ND	--	--	ND
2-methyl,4,6-dinitrophenol	ND	--	ND	--	--	ND
pentachlorophenol	ND	--	ND	--	--	ND
o-cresol	0.393	--	ND	--	--	ND
m,p-cresol	10.400	--	ND	--	--	ND
2,4,5-trichlorophenol	NA	--	ND	--	--	0.074
benzene	0.930	--	0.268	--	--	0.034
Dissolved Oxygen	--	21.650	--	12.030	6.800	--
pH (SU)	--	8.170	--	7.840	7.370	8.550
Oxygen Redox Potential	--	183.900	--	222.800	275.900	--
Temperature (deg.C)	--	16.860	--	16.960	16.910	17.600
Ground-Water Elevation (ft.MSL)	568.840	--	567.780	--	--	566.980

Notes:

1. All results are in milligrams per liter (mg/l) unless otherwise indicated.

Abbreviations:

SU = Standard Units
deg.C = degrees Celsius
-- = Not Sampled
ND = Not Detected
ft.MSL = feet above Mean Sea Level
NA= Not Alalyzed

Summary of Ground-Water Data for Bio-Sparge Area Well # WT-14A
Solutia, Inc.
Nitro, West Virginia

Date Parameter	02/18/98	06/25/98
phenol	ND	0.108
2-chlorophenol	ND	ND
2-nitrophenol	0.024	ND
2,4-dimethylphenol	ND	0.182
2,4-dichlorophenol	ND	0.024
4-chloro,3-methyl phenol	ND	0.181
2,4,6-trichlorophenol	0.02	ND
2,4-dinitrophenol	ND	ND
4-nitrophenol	ND	ND
2-methyl,4,6-dinitrophenol	ND	ND
pentachlorophenol	ND	ND
o-cresol	ND	0.113
m,p-cresol	ND	1.72
2,4,5-trichlorophenol	ND	0.102
benzene	0.352	0.478
Dissolved Oxygen	--	--
pH (SU)	--	--
Oxygen Redox Potential	--	--
Temperature (deg.C)	--	--
Ground-Water Elevation (ft.MSL)	571.95	571.87

Notes:

1. All results are in milligrams per liter (mg/l) unless otherwise indicated.

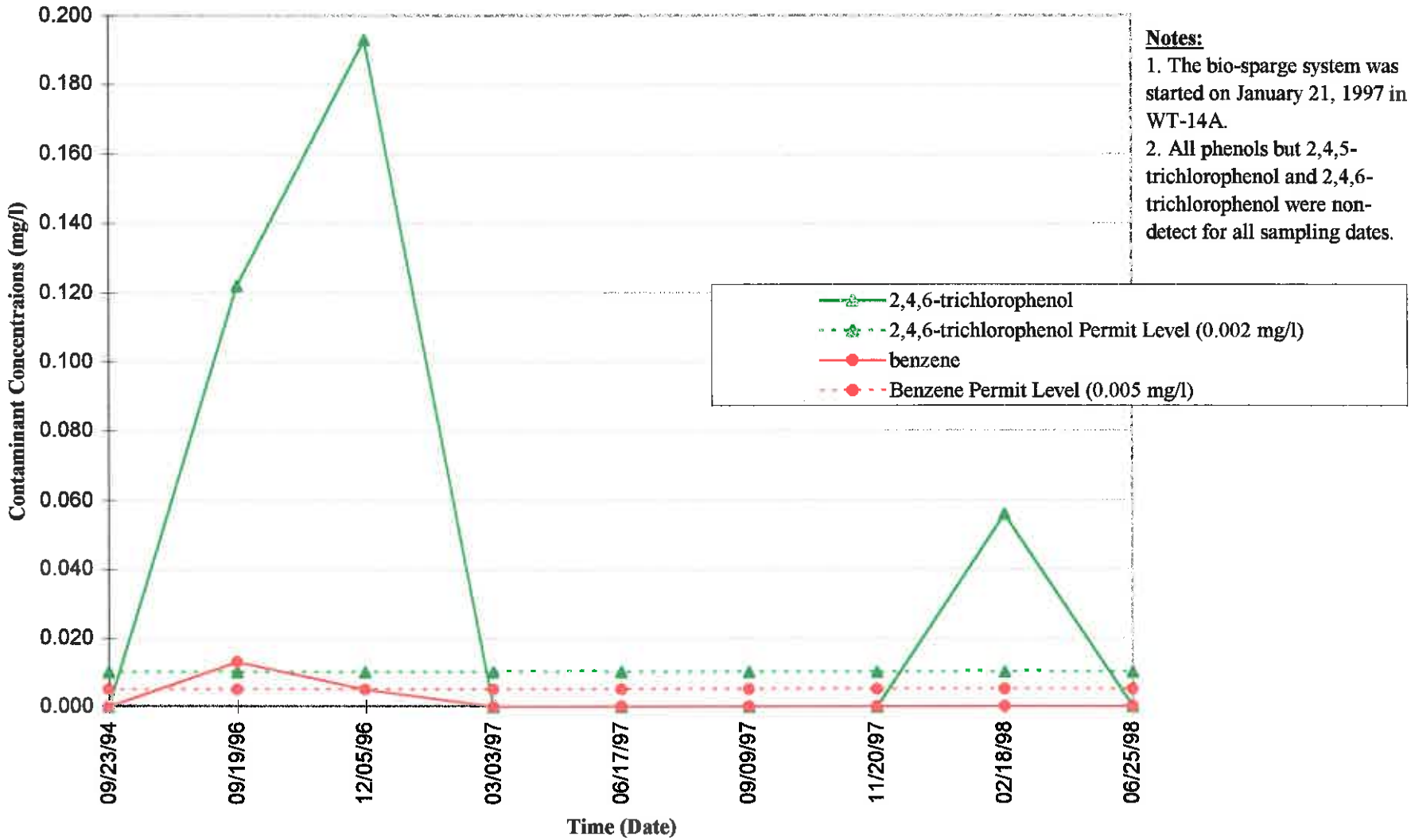
Abbreviations:

SU = Standard Units
deg.C = degrees Celsius
-- = Not Sampled
ND = Not Detected
ft.MSL = feet above Mean Sea Level
NA= Not Alalyzed

APPENDIX K

Solutia, Inc.
Nitro, West Virginia
Bio-Sparge Area Well #WT-13A(1)

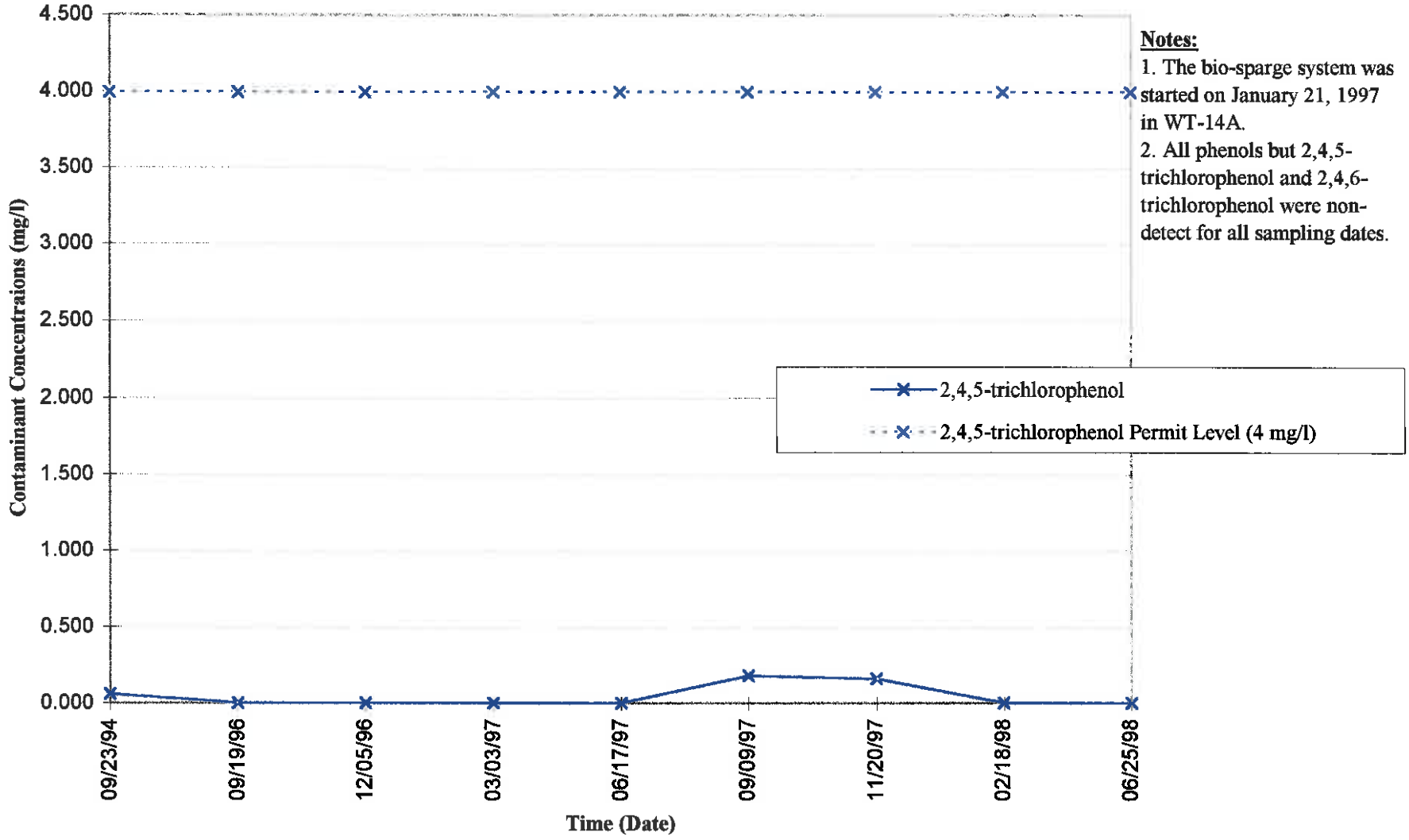
Contaminant Concentrations vs. Time



Notes:
1. The bio-sparge system was started on January 21, 1997 in WT-14A.
2. All phenols but 2,4,5-trichlorophenol and 2,4,6-trichlorophenol were non-detect for all sampling dates.

Solutia, Inc.
Nitro, West Virginia
Bio-Sparge Area Well #WT-13A(2)

Contaminant Concentrations vs. Time



Notes:
1. The bio-sparge system was started on January 21, 1997 in WT-14A.
2. All phenols but 2,4,5-trichlorophenol and 2,4,6-trichlorophenol were non-detect for all sampling dates.

Summary of Ground-Water Data for Bio-Sparge Area Well # WT-13A
Solutia, Inc.
Nitro, West Virginia

Date Parameter	09/23/94	09/19/96	12/05/96	03/03/97	06/17/97	09/09/97
phenol	ND	ND	ND	ND	ND	ND
2-chlorophenol	NA	ND	ND	ND	ND	ND
2-nitrophenol	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	ND	ND	ND	ND	ND	ND
4-chloro,3-methylphenol	NA	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	ND	0.122	0.193	ND	ND	ND
2,4-dinitrophenol	NA	ND	ND	ND	ND	ND
4-nitrophenol	ND	ND	ND	ND	ND	ND
2-methyl,4,6-dinitrophenol	NA	ND	ND	ND	ND	ND
pentachlorophenol	NA	ND	ND	ND	ND	ND
o-cresol	NA	ND	ND	ND	ND	ND
m,p-cresol	NA	ND	ND	ND	ND	ND
2,4,5-trichlorophenol	0.055	NA	NA	NA	NA	0.175
benzene	ND	0.013	0.005	ND	ND	ND
Dissolved Oxygen	4.30	--	--	--	--	--
pH (SU)	5.35	--	--	--	--	--
Oxygen Redox Potential	--	--	--	--	--	--
Temperature (deg.C)	--	--	--	--	--	--
Ground-Water Elevation (ft.MSL)	--	--	568.56	568.34	566.43	566.41

Notes:

1. All results are in milligrams per liter (mg/l) unless otherwise indicated.

Abbreviations:

SU = Standard Units
deg.C = degrees Celsius
-- = Not Sampled
ND = Not Detected
ft.MSL = feet above Mean Sea Level
NA = Not Analyzed

Summary of Ground-Water Data for Bio-Sparge Area Well # WT-13A
Solutia, Inc.
Nitro, West Virginia

Date Parameter	11/20/97	02/18/98	06/25/98
phenol	ND	ND	ND
2-chlorophenol	ND	ND	ND
2-nitrophenol	ND	ND	ND
2,4-dimethylphenol	ND	ND	ND
2,4-dichlorophenol	ND	ND	ND
4-chloro,3-methylphenol	ND	ND	ND
2,4,6-trichlorophenol	ND	0.056	ND
2,4-dinitrophenol	ND	ND	ND
4-nitrophenol	ND	ND	ND
2-methyl,4,6-dinitrophenol	ND	ND	ND
pentachlorophenol	ND	ND	ND
o-cresol	ND	ND	ND
m,p-cresol	ND	ND	ND
2,4,5-trichlorophenol	0.157	ND	ND
benzene	ND	ND	ND
Dissolved Oxygen	--	--	--
pH (SU)	7.18	--	--
Oxygen Redox Potential	--	--	--
Temperature (deg.C)	16.50	--	--
Ground-Water Elevation (ft.MSL)	566.37	568.17	566.61

Notes:

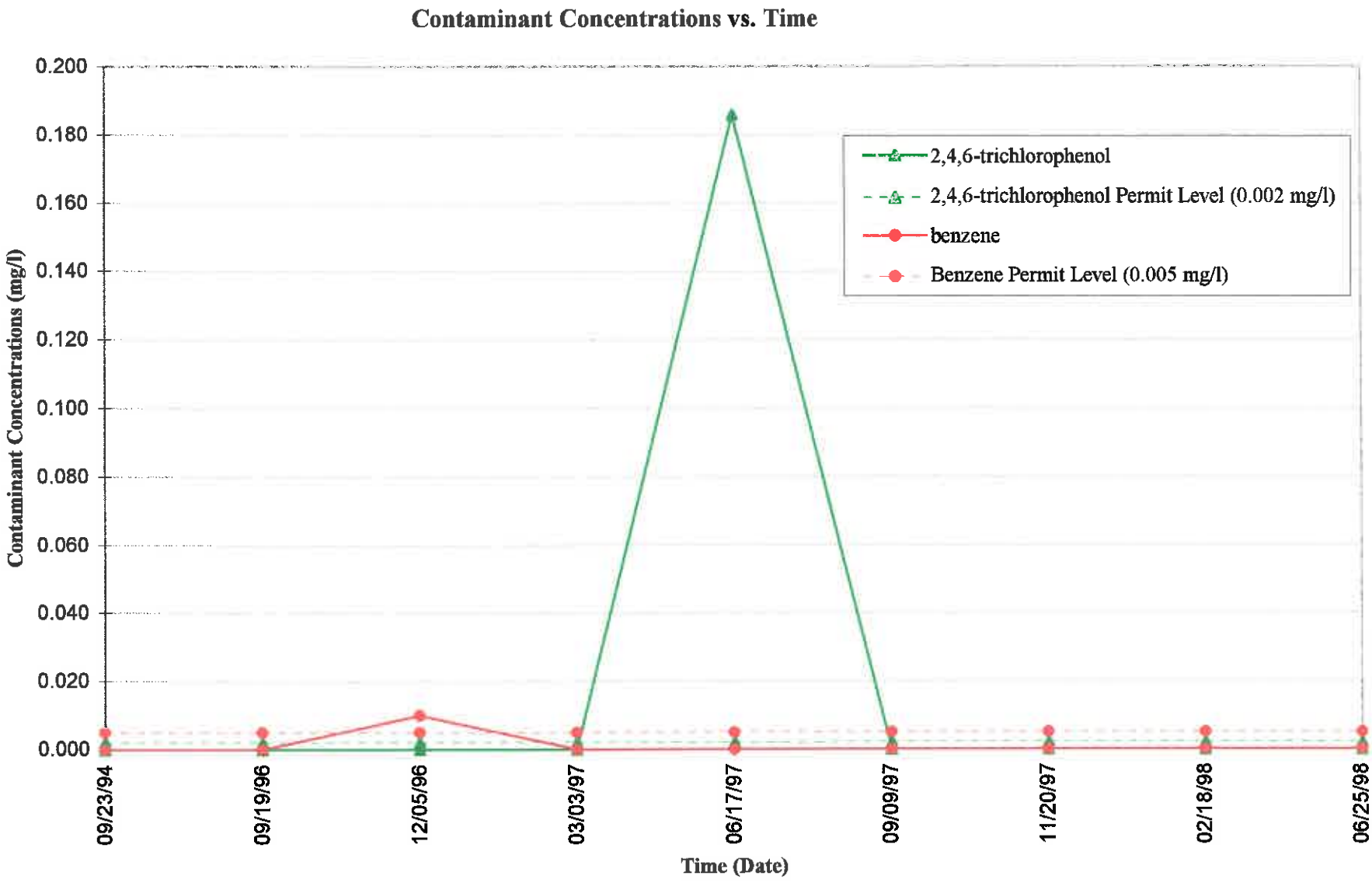
1. All results are in milligrams per liter (mg/l) unless otherwise indicated.

Abbreviations:

SU = Standard Units
deg.C = degrees Celsius
-- = Not Sampled
ND = Not Detected
ft.MSL = feet above Mean Sea Level
NA = Not Analyzed

APPENDIX L

Solutia, Inc.
Nitro, West Virginia
Bio-Sparge Area Well # TD-5



Summary of Ground-Water Data for Bio-Sparge Area Well # TD-5
Solutia, Inc.
Nitro, West Virginia

Date Parameter	09/23/94	09/19/96	12/05/96	03/03/97	06/17/97	09/09/97
phenol	ND	ND	ND	ND	ND	ND
2-chlorophenol	NA	ND	ND	ND	ND	ND
2-nitrophenol	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	ND	ND	ND	ND	ND	ND
4-chloro,3-methylphenol	ND	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	ND	ND	ND	ND	0.186	ND
2,4-dinitrophenol	NA	ND	ND	ND	ND	ND
4-nitrophenol	ND	ND	ND	ND	ND	ND
2-methyl,4,6-dinitrophenol	NA	ND	ND	ND	ND	ND
pentachlorophenol	NA	ND	ND	ND	ND	ND
o-cresol	NA	ND	ND	ND	ND	ND
m,p-cresol	NA	ND	ND	ND	ND	ND
2,4,5-trichlorophenol	ND	NA	NA	NA	NA	ND
benzene	ND	ND	0.010	ND	ND	ND
Dissolved Oxygen	5.90	--	--	--	--	--
pH (SU)	6.98	--	--	--	--	--
Oxygen Redox Potential	--	--	--	--	--	--
Temperature (deg.C)	--	--	--	--	--	--
Ground-Water Elevation (ft.MSL)	--	--	568.64	571.38	566.61	566.59

Notes:

1. All results are in milligrams per liter (mg/l) unless otherwise indicated.

Abbreviations:

SU = Standard Units
deg.C = degrees Celsius
-- = Not Sampled
ND = Not Detected
ft.MSL = feet above Mean Sea Level
NA = Not Analyzed

Summary of Ground-Water Data for Bio-Sparge Area Well # TD-5
Solutia, Inc.
Nitro, West Virginia

Date Parameter	11/20/97	02/18/98	06/25/98
phenol	ND	ND	ND
2-chlorophenol	ND	ND	ND
2-nitrophenol	ND	ND	ND
2,4-dimethylphenol	ND	ND	ND
2,4-dichlorophenol	ND	ND	ND
4-chloro,3-methylphenol	ND	ND	ND
2,4,6-trichlorophenol	ND	ND	ND
2,4-dinitrophenol	ND	ND	ND
4-nitrophenol	ND	ND	ND
2-methyl,4,6-dinitrophenol	ND	ND	ND
pentachlorophenol	ND	ND	ND
o-cresol	ND	ND	ND
m,p-cresol	ND	ND	ND
2,4,5-trichlorophenol	ND	ND	ND
benzene	ND	ND	ND
Dissolved Oxygen	--	--	--
pH (SU)	6.90	--	--
Oxygen Redox Potential	--	--	--
Temperature (deg.C)	15.70	--	--
Ground-Water Elevation (ft.MSL)	566.49	568.36	566.76

Notes:

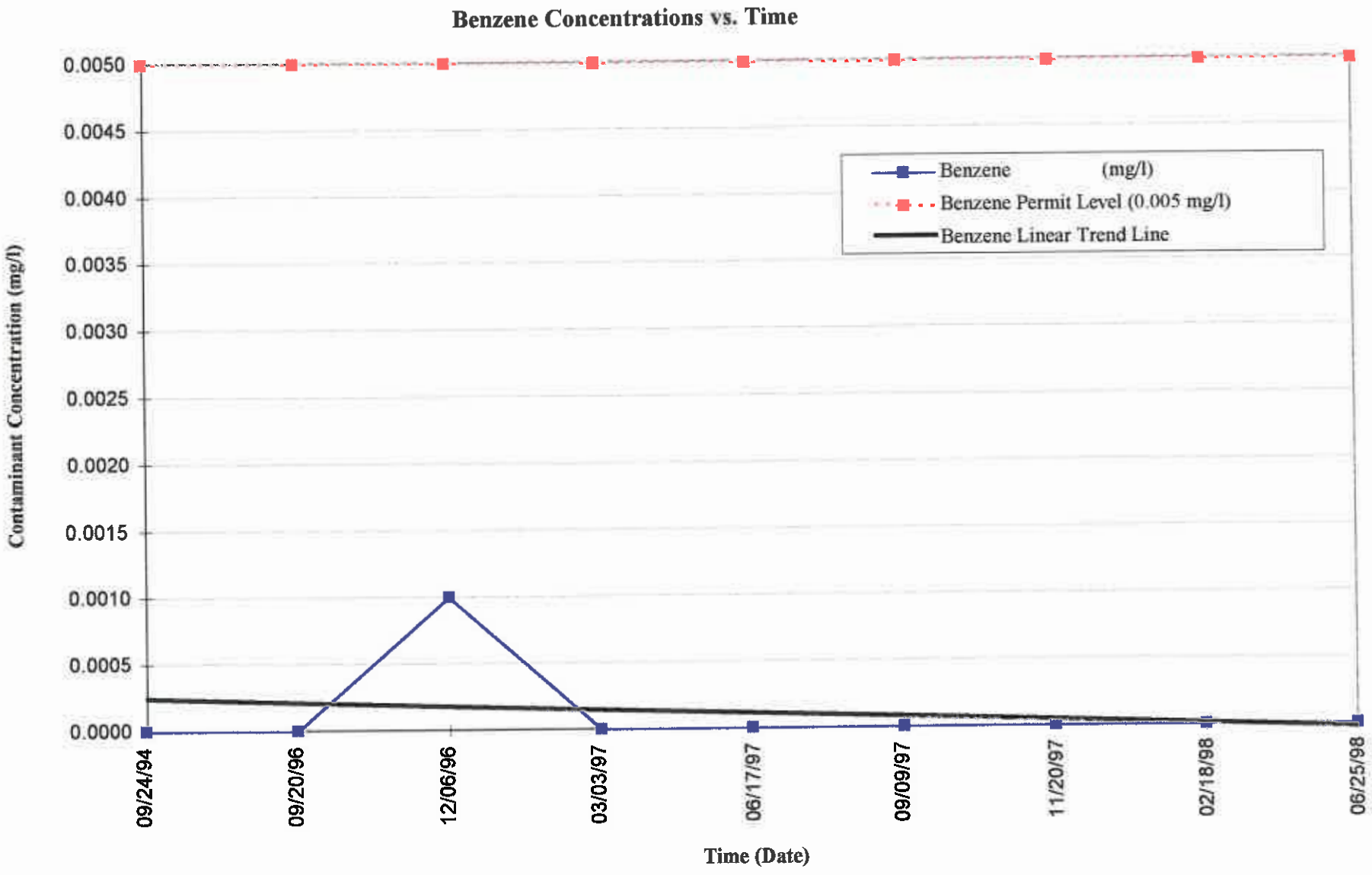
1. All results are in milligrams per liter (mg/l) unless otherwise indicated.

Abbreviations:

SU = Standard Units
deg.C = degrees Celsius
-- = Not Sampled
ND = Not Detected
ft.MSL = feet above Mean Sea Level
NA = Not Analyzed

APPENDIX M

Solutia, Inc.
Nitro, West Virginia
LNAPL Well # MW-14



Summary of Ground-Water Data for LNAPL System Well MW-14
Solutia, Inc.
Nitro, West Virginia

Date	Depth to Water (ft.TOC)	Ground-Water Elevation (ft.MSL)	Ground-Water Temperature (deg.C)	pH (SU)	Trichloroethene (mg/l)	Benzene (mg/l)
09/24/94	--	--	--	--	0.081	ND
09/20/96	--	--	--	--	--	ND
12/06/96	--	--	--	--	--	0.001
03/03/97	--	--	--	--	--	ND
06/17/97	--	--	--	--	--	ND
09/09/97	--	--	--	--	--	ND
11/20/97	16.34	577.23	15.80	7.00	--	ND
02/18/98	--	--	--	--	--	ND
06/25/98	--	--	--	--	--	ND

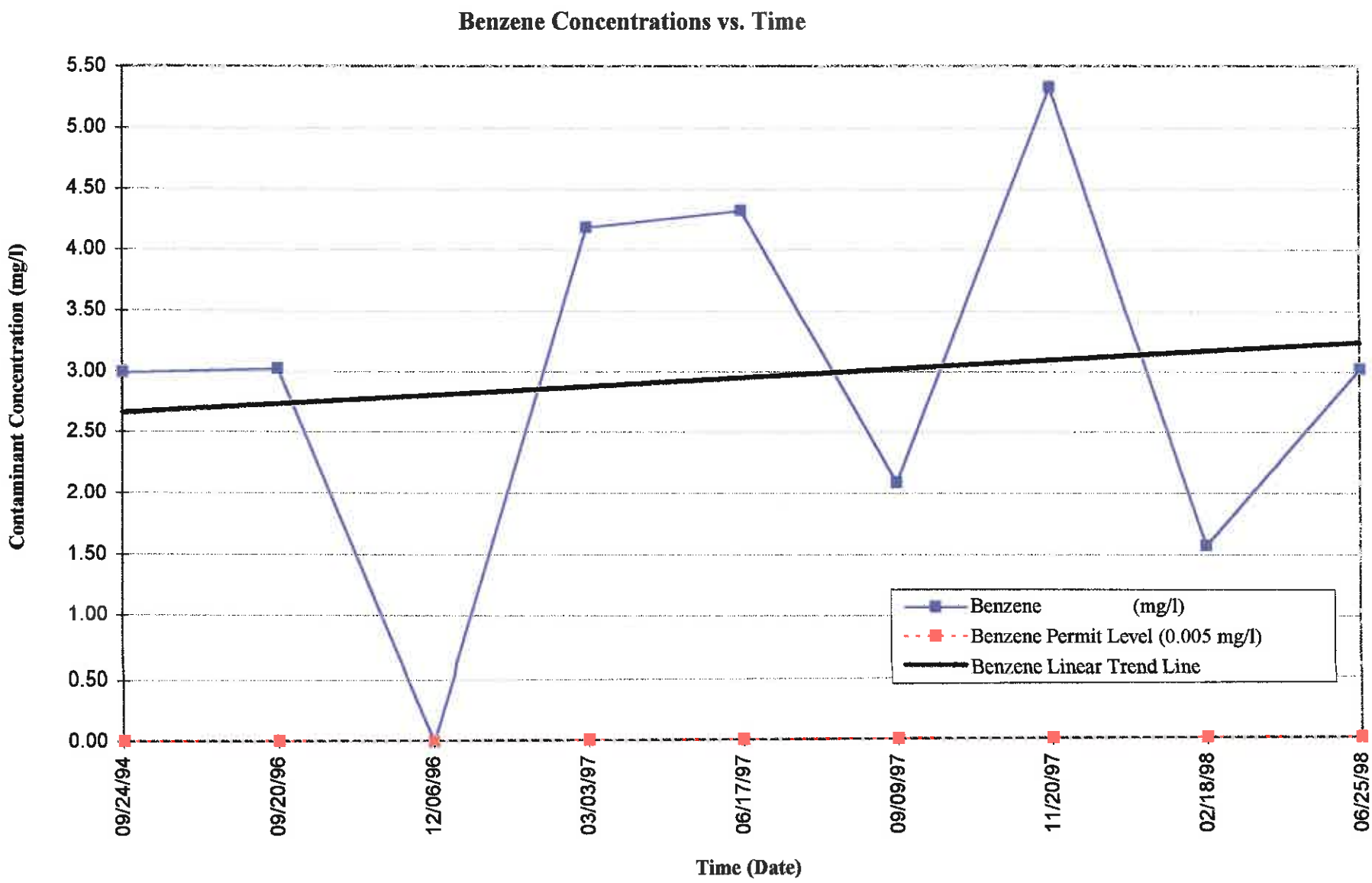
Well TOC Elevation = 593.57 (ft.MSL)

Abbreviations:

ft.TOC = feet from Top of Casing
ft.MSL = feet above Mean Sea Level
deg.C = degrees Celsius
SU = Standard Units
mg/l = milligrams per liter
TOC = Top of Casing

APPENDIX N

Solutia, Inc.
Nitro, West Virginia
LNAPL Well # MW-7



Summary of Ground-Water Data for LNAPL System Well MW-7
Solutia, Inc.
Nitro, West Virginia

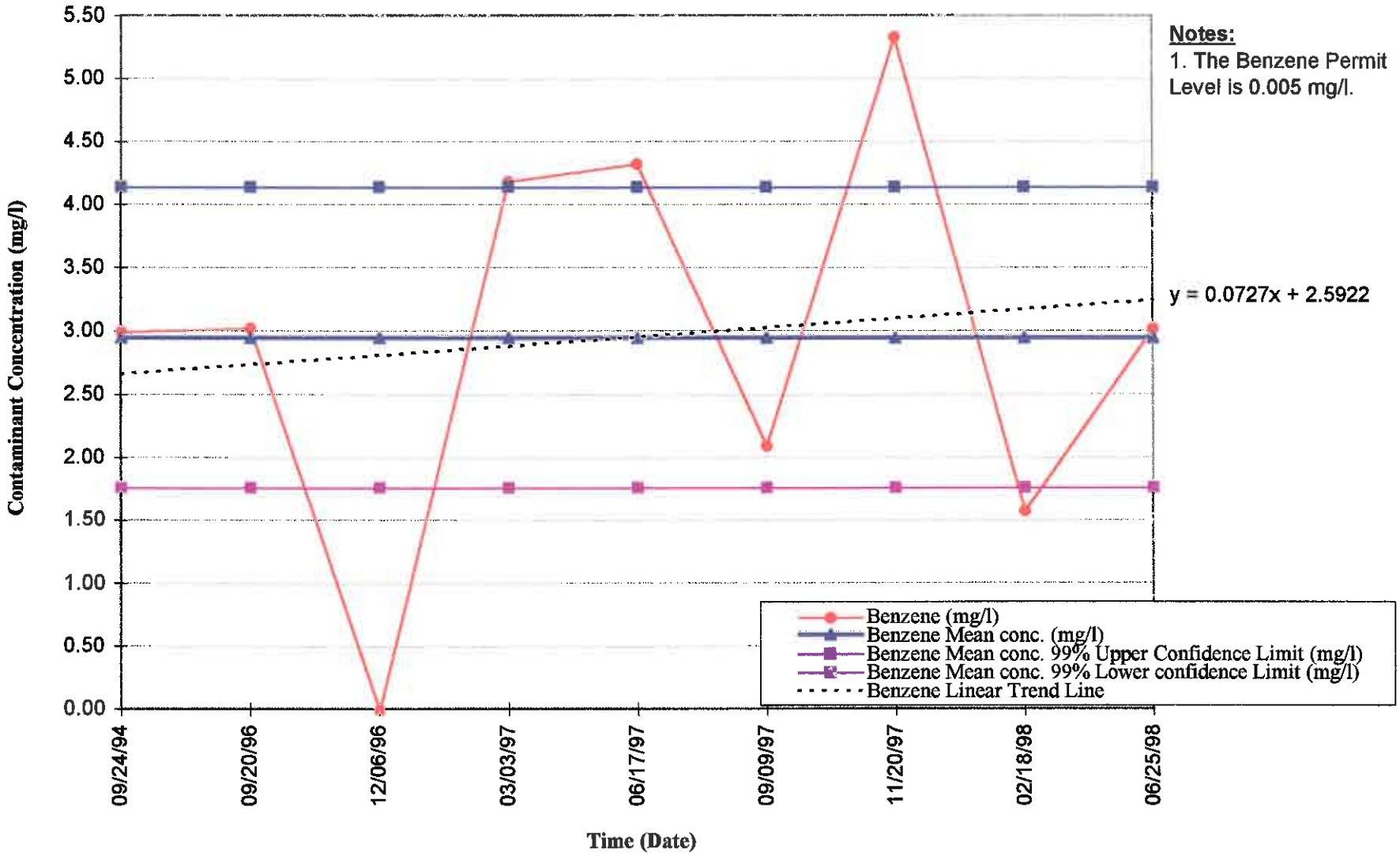
Date	Depth to Water (ft.TOC)	Ground-Water Elevation (ft.MSL)	Ground-Water Temperature (deg.C)	pH (SU)	Trichloroethene (mg/l)	Benzene (mg/l)
09/24/94	--	--	--	--	ND	3.000
09/20/96	--	--	--	--	--	3.030
12/06/96	--	--	--	--	--	ND
03/03/97	--	--	--	--	--	4.190
06/17/97	--	--	--	--	--	4.330
09/09/97	--	--	--	--	--	2.100
11/20/97	30.20	563.83	15.00	7.80	--	5.340
02/18/98	--	--	--	--	--	1.580
06/25/98	27.39	567.14	--	--	--	3.030

Well TOC Elevation = 594.03 (ft.MSL)

Abbreviations:

ft.TOC = feet from Top of Casing
ft.MSL = feet above Mean Sea Level
deg.C = degrees Celsius
SU = Standard Units
mg/l = milligrams per liter
TOC = Top of Casing

RCRA Statistical Analysis of MW-7 for Benzene



RCRA Statistical Analysis of MW-7 for Benzene

Date	Benzene (mg/l)	Benzene Mean conc. (mg/l)	Benzene Mean conc. 99% Upper Confidence Limit (mg/l)	Benzene Mean conc. 99% Lower confidence Limit (mg/l)
09/24/94	3.000	2.9556	4.1459	1.7652
09/20/96	3.030	2.9556	4.1459	1.7652
12/06/96	ND	2.9556	4.1459	1.7652
03/03/97	4.190	2.9556	4.1459	1.7652
06/17/97	4.330	2.9556	4.1459	1.7652
09/09/97	2.100	2.9556	4.1459	1.7652
11/20/97	5.340	2.9556	4.1459	1.7652
02/18/98	1.580	2.9556	4.1459	1.7652
06/25/98	3.030	2.9556	4.1459	1.7652

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 2.955556 mg/l

Standard Deviation, s= 1.233102939 mg/l

Degrees of Freedom = 8

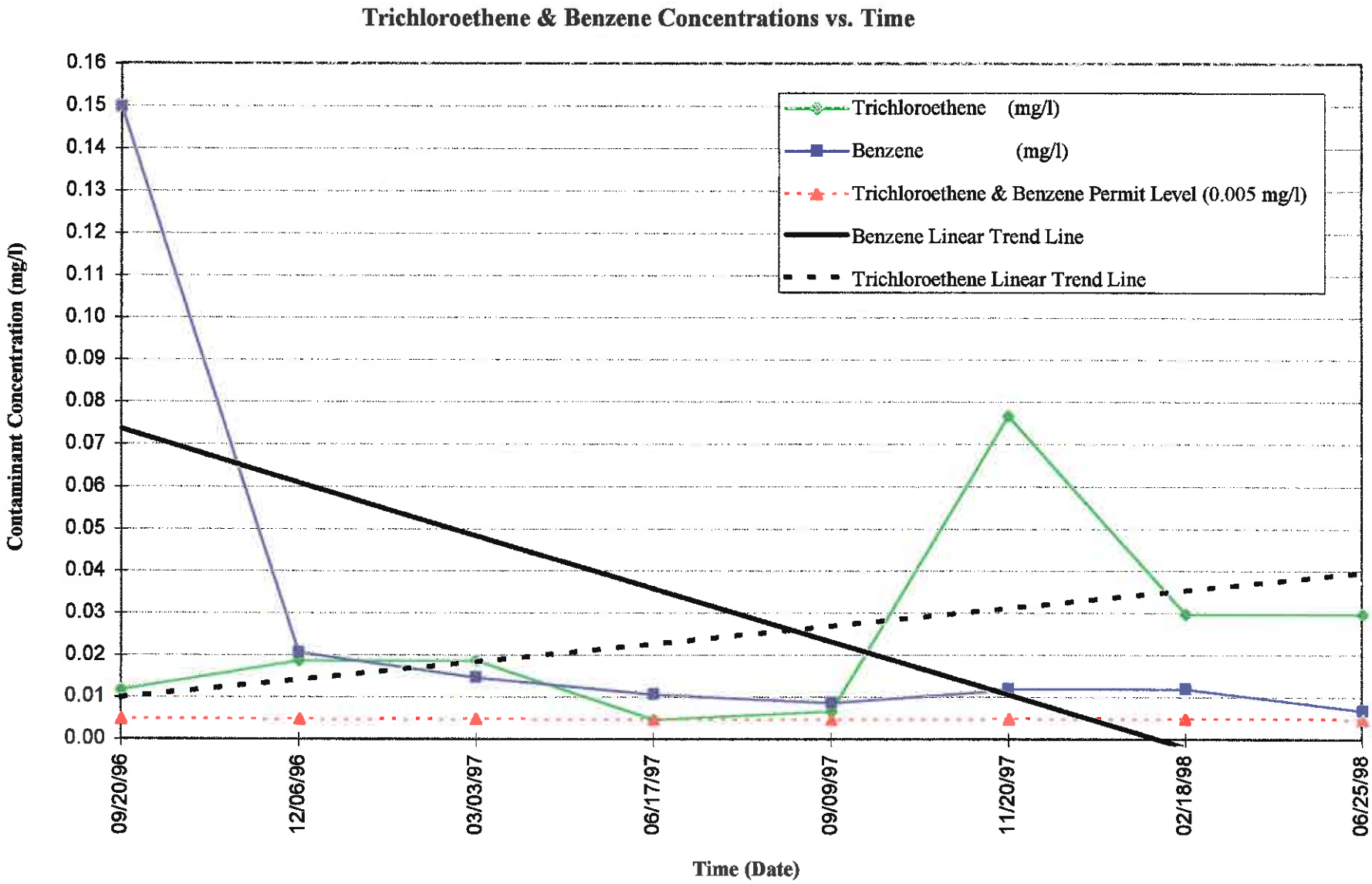
t Distribution, t0.99 = 2.896

Confidence Interval (upper limit)= 4.14591 mg/l

Confidence Interval (lower limit)= 1.76520 mg/l

APPENDIX O

Solutia, Inc.
Nitro, West Virginia
LNAPL Well # MW-22R



Summary of Ground-Water Data for LNAPL System Well MW-22R
Solutia, Inc.
Nitro, West Virginia

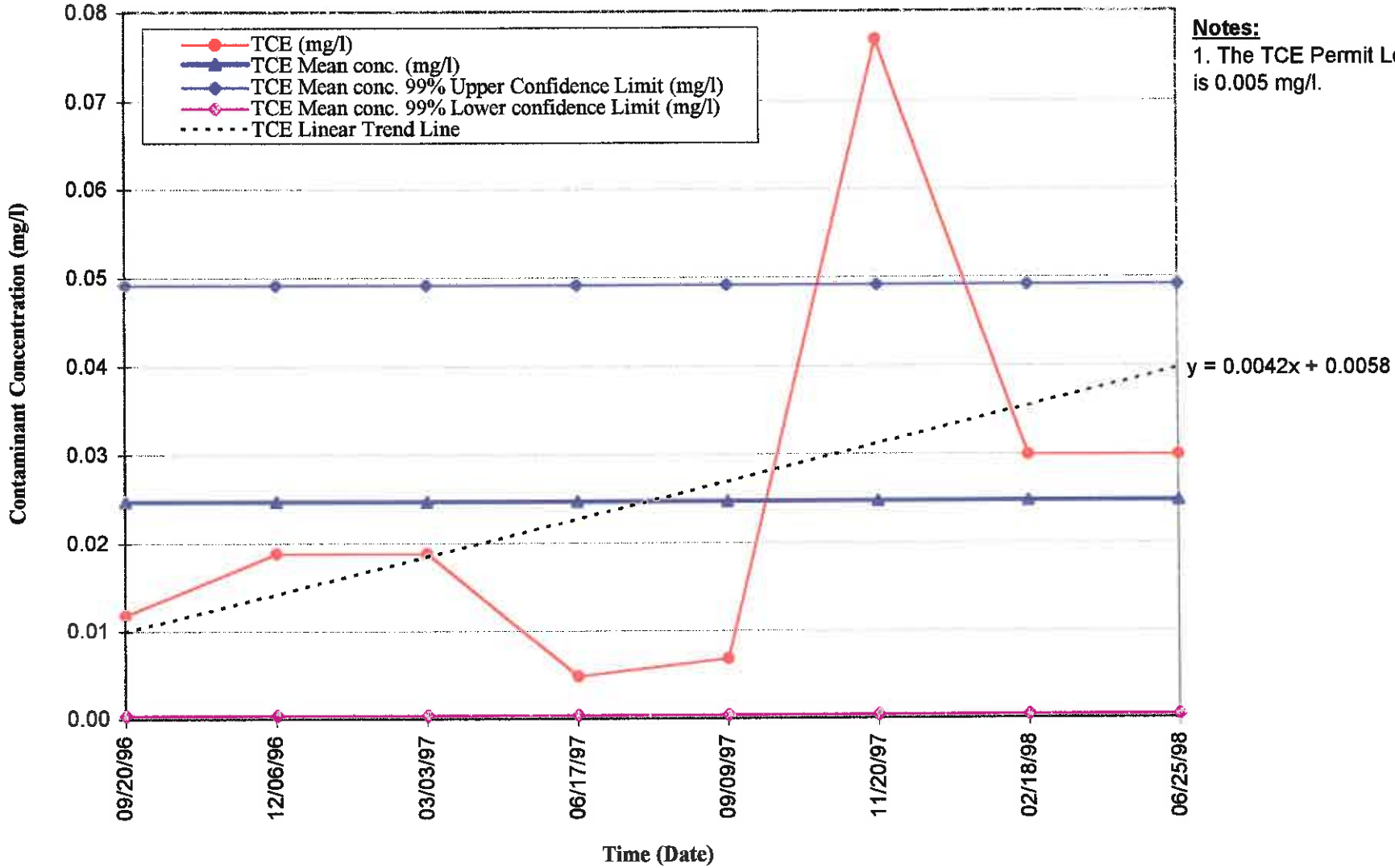
Date	Depth to Water (ft.TOC)	Ground-Water Elevation (ft.MSL)	Ground-Water Temperature (deg.C)	pH (SU)	Trichloroethene (mg/l)	Benzene (mg/l)
09/20/96	--	--	--	--	0.012	0.150
12/06/96	--	--	--	--	0.019	0.021
03/03/97	--	--	--	--	0.019	0.015
06/17/97	--	--	--	--	0.005	0.011
09/09/97	--	--	--	--	0.007	0.009
11/20/97	28.88	567.88	--	--	0.077	0.012
02/18/98	--	--	--	--	0.030	0.012
06/25/98	--	--	--	--	0.030	0.007

Well TOC Elevation = **596.76** **(ft.MSL)**

Abbreviations:

ft.TOC = feet from Top of Casing
ft.MSL = feet above Mean Sea Level
deg.C = degrees Celsius
SU = Standard Units
mg/l = milligrams per liter
TOC = Top of Casing

RCRA Statistical Analysis of MW-22R for Trichloroethene



Notes:
1. The TCE Permit Level is 0.005 mg/l.

RCRA Statistical Analysis of MW-22R for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
09/20/96	0.012	0.0249	0.0493	0.0004
12/06/96	0.019	0.0249	0.0493	0.0004
03/03/97	0.019	0.0249	0.0493	0.0004
06/17/97	0.005	0.0249	0.0493	0.0004
09/09/97	0.007	0.0249	0.0493	0.0004
11/20/97	0.077	0.0249	0.0493	0.0004
02/18/98	0.030	0.0249	0.0493	0.0004
06/25/98	0.030	0.0249	0.0493	0.0004

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 0.024875 mg/l

Standard Deviation, s= 0.023049249 mg/l

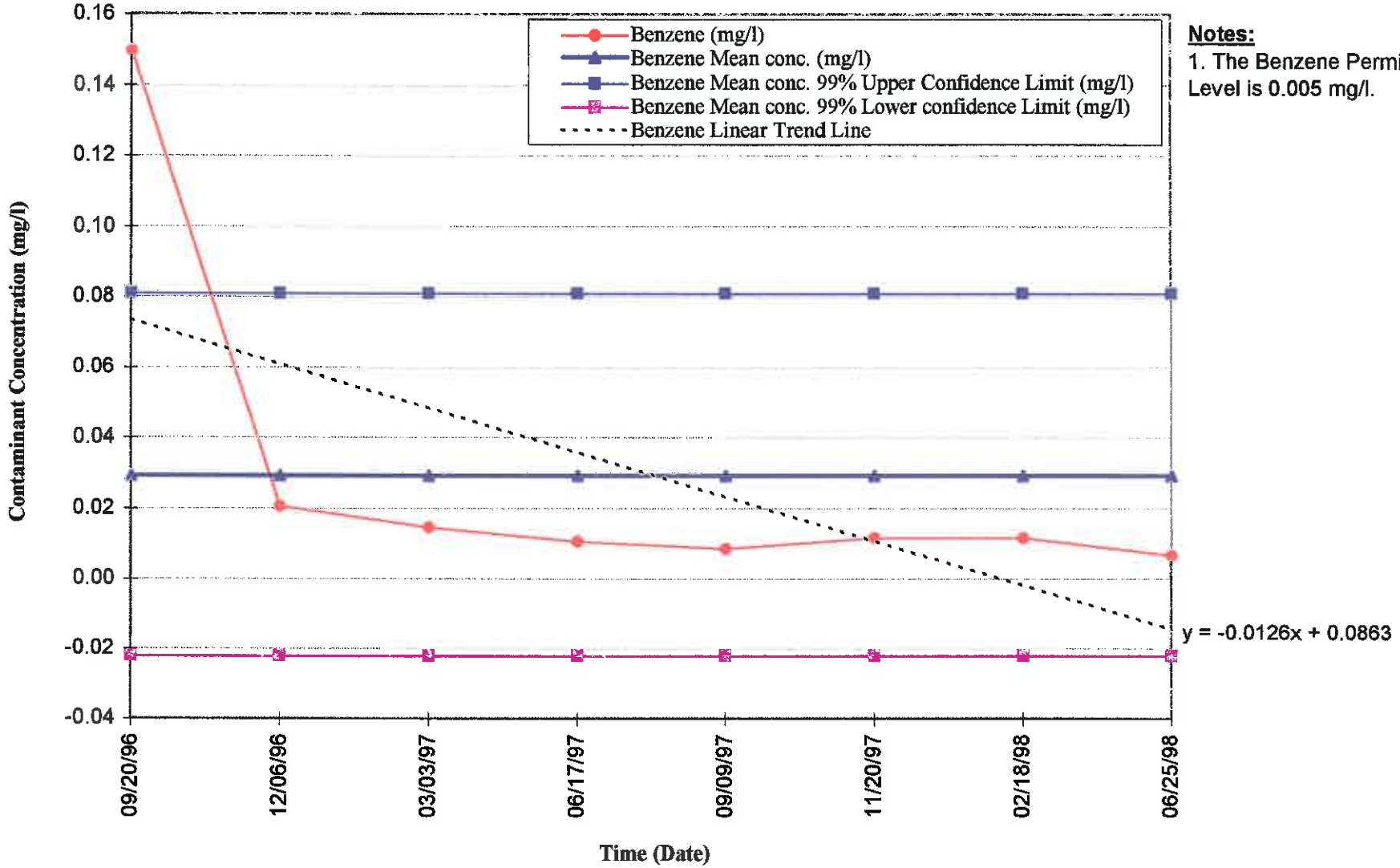
Degrees of Freedom = 7

t Distribution, t0.99 = 2.998

Confidence Interval (upper limit)= 0.04931 mg/l

Confidence Interval (lower limit)= 0.00044 mg/l

RCRA Statistical Analysis of MW-22R for Benzene



Notes:

1. The Benzene Permit Level is 0.005 mg/l.

RCRA Statistical Analysis of MW-22R for Benzene

Date	Benzene (mg/l)	Benzene Mean conc. (mg/l)	Benzene Mean conc. 99% Upper Confidence Limit (mg/l)	Benzene Mean conc. 99% Lower confidence Limit (mg/l)
09/20/96	0.150	0.0296	0.0814	-0.0221
12/06/96	0.021	0.0296	0.0814	-0.0221
03/03/97	0.015	0.0296	0.0814	-0.0221
06/17/97	0.011	0.0296	0.0814	-0.0221
09/09/97	0.009	0.0296	0.0814	-0.0221
11/20/97	0.012	0.0296	0.0814	-0.0221
02/18/98	0.012	0.0296	0.0814	-0.0221
06/25/98	0.007	0.0296	0.0814	-0.0221

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 0.029625 mg/l

Standard Deviation, s= 0.048820188 mg/l

Degrees of Freedom = 7

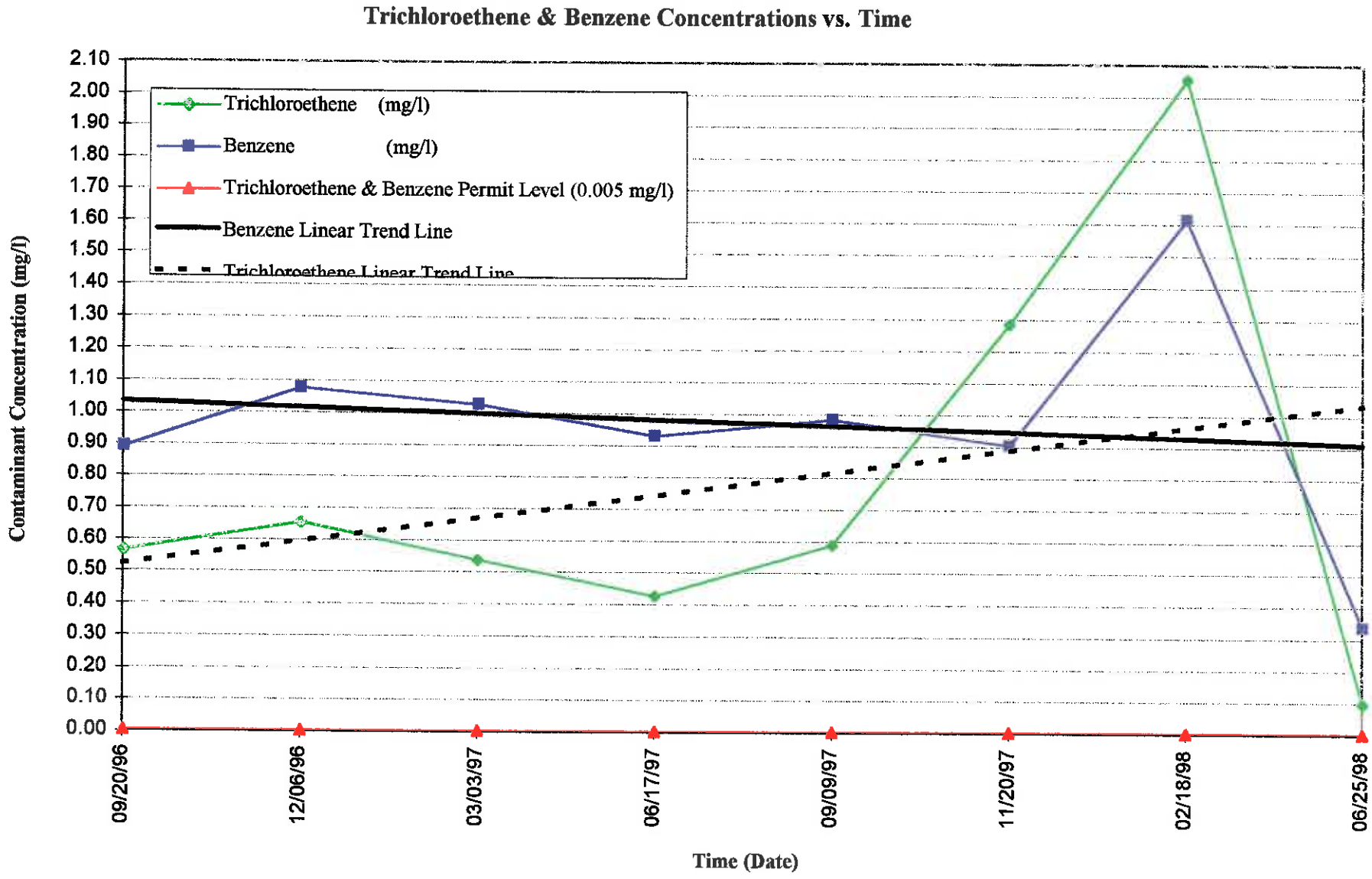
t Distribution, t0.99 = 2.998

Confidence Interval (upper limit)= 0.08137 mg/l

Confidence Interval (lower limit)= -0.02212 mg/l

APPENDIX P

Solutia, Inc.
Nitro, West Virginia
LNAPL Well # MW-24A



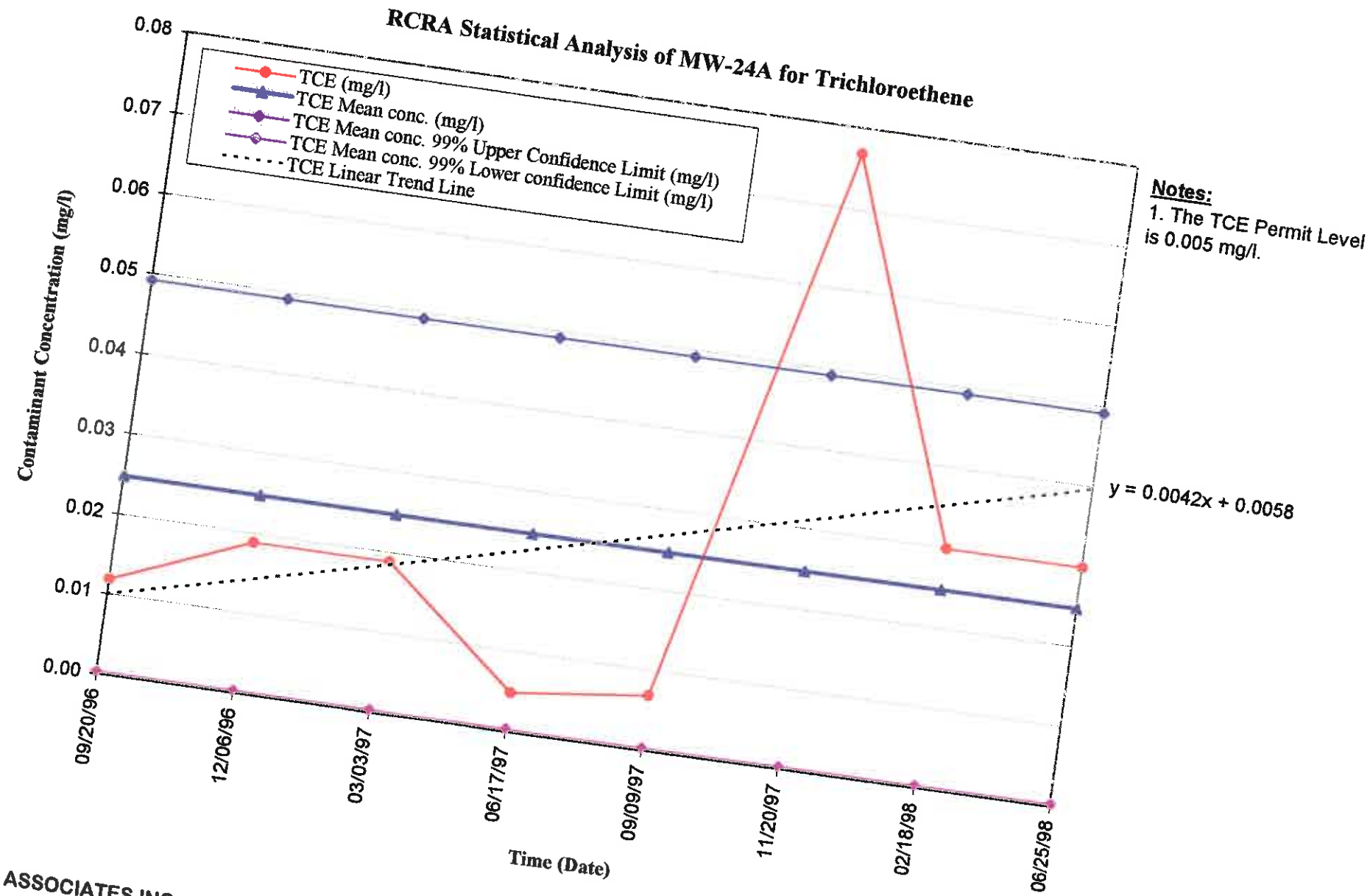
Summary of Ground-Water Data for LNAPL System Well MW-24A
Solutia, Inc.
Nitro, West Virginia

Date	Depth to Water (ft.TOC)	Ground-Water Elevation (ft.MSL)	Ground-Water Temperature (deg.C)	pH (SU)	Trichloroethene (mg/l)	Benzene (mg/l)
09/20/96	--	--	--	--	0.568	0.894
12/06/96	--	--	--	--	0.657	1.080
03/03/97	--	--	--	--	0.543	1.030
06/17/97	--	--	--	--	0.431	0.934
09/09/97	--	--	--	--	0.593	0.987
11/20/97	26.20	568.38	14.60	7.30	1.290	0.909
02/18/98	--	--	--	--	2.060	1.620
06/25/98	--	--	--	--	0.102	0.342

Well TOC Elevation = 594.58 (ft.MSL)

Abbreviations:

ft.TOC = feet from Top of Casing
ft.MSL = feet above Mean Sea Level
deg.C = degrees Celsius
SU = Standard Units
mg/l = milligrams per liter
TOC = Top of Casing



Notes:
1. The TCE Permit Level is 0.005 mg/l.

UX ASSOCIATES INC

MO06619J04

RCRA Statistical Analysis of MW-24A for Trichloroethene

Date	TCE (mg/l)	TCE Mean conc. (mg/l)	TCE Mean conc. 99% Upper Confidence Limit (mg/l)	TCE Mean conc. 99% Lower confidence Limit (mg/l)
09/20/96	0.568	0.7805	1.4304	0.1306
12/06/96	0.657	0.7805	1.4304	0.1306
03/03/97	0.543	0.7805	1.4304	0.1306
06/17/97	0.431	0.7805	1.4304	0.1306
09/09/97	0.593	0.7805	1.4304	0.1306
11/20/97	1.290	0.7805	1.4304	0.1306
02/18/98	2.060	0.7805	1.4304	0.1306
06/25/98	0.102	0.7805	1.4304	0.1306

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 0.780500 mg/l

Standard Deviation, s= 0.613094493 mg/l

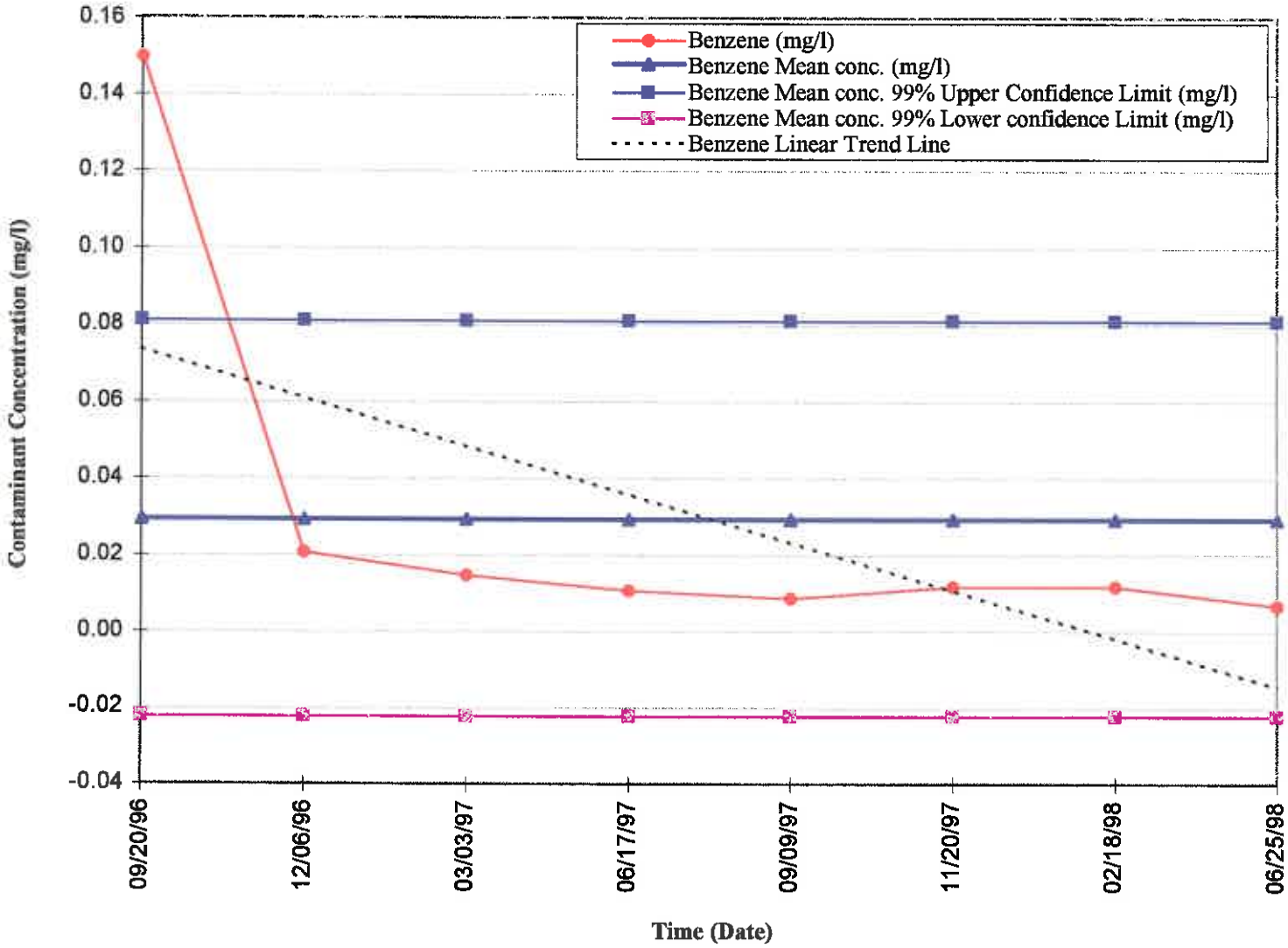
Degrees of Freedom = 7

t Distribution, t0.99 = 2.998

Confidence Interval (upper limit)= 1.43035 mg/l

Confidence Interval (lower limit)= 0.13065 mg/l

RCRA Statistical Analysis of MW-24A for Benzene



Notes:

1. The Benzene Permit Level is 0.005 mg/l.

RCRA Statistical Analysis of MW-24-A for Benzene

Date	Benzene (mg/l)	Benzene Mean conc. (mg/l)	Benzene Mean conc. 99% Upper Confidence Limit (mg/l)	Benzene Mean conc. 99% Lower confidence Limit (mg/l)
09/20/96	0.894	0.9745	1.3424	0.6066
12/06/96	1.080	0.9745	1.3424	0.6066
03/03/97	1.030	0.9745	1.3424	0.6066
06/17/97	0.934	0.9745	1.3424	0.6066
09/09/97	0.987	0.9745	1.3424	0.6066
11/20/97	0.909	0.9745	1.3424	0.6066
02/18/98	1.620	0.9745	1.3424	0.6066
06/25/98	0.342	0.9745	1.3424	0.6066

Abbreviations:

mg/l = milligrams per liter

Statistical Calculations:

Mean, x= 0.974500 mg/l

Standard Deviation, s= 0.347131922 mg/l

Degrees of Freedom = 7

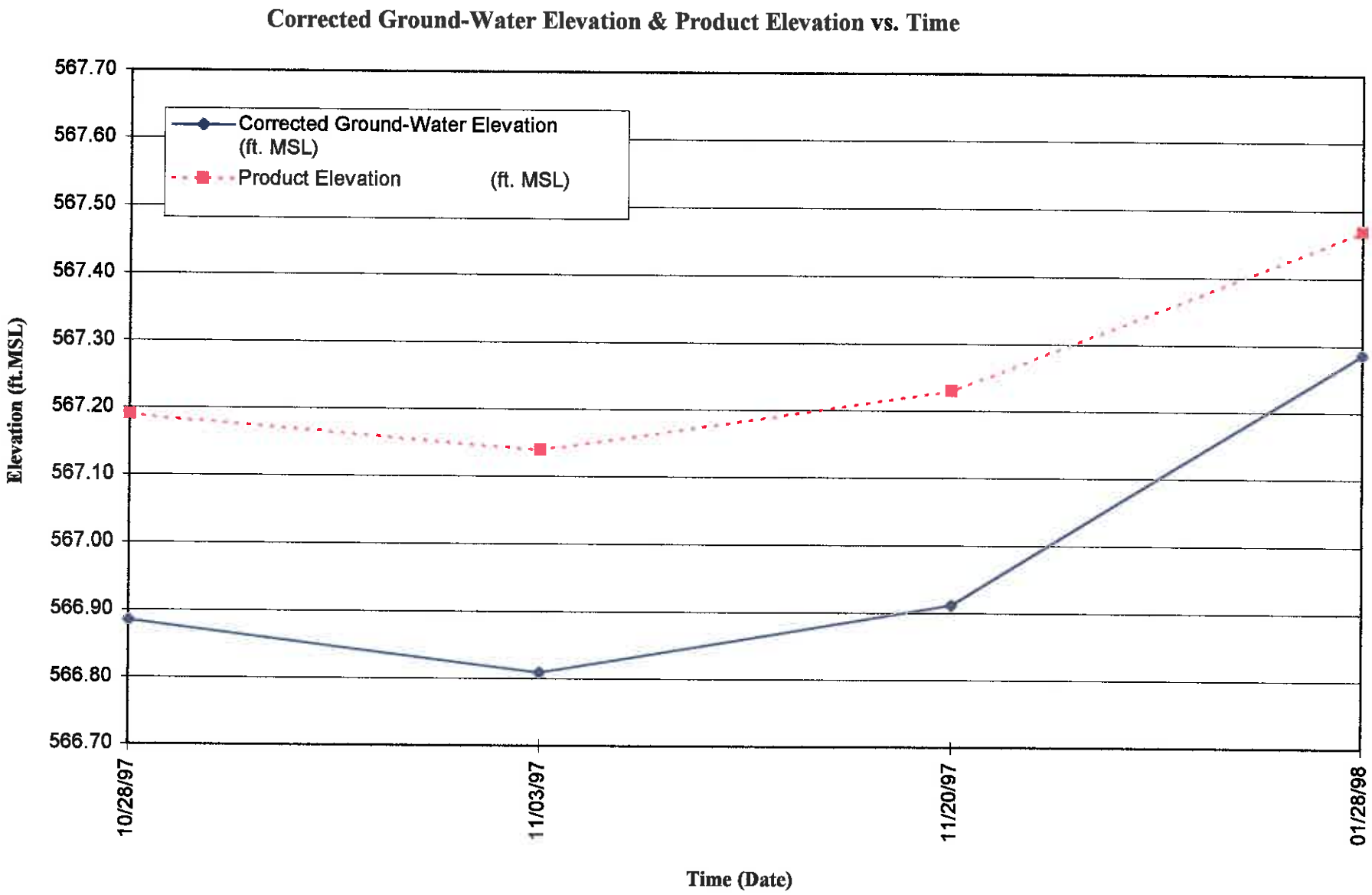
t Distribution, t0.99 = 2.998

Confidence Interval (upper limit)= 1.34244 mg/l

Confidence Interval (lower limit)= 0.60656 mg/l

APPENDIX Q

Solutia, Inc.
Nitro, West Virginia
LNAPL Well # EW-1



ROUX ASSOCIATES INC

MO06619J04.29

Summary of Ground-Water Analytical Data for LNAPL Well EW-1
Solutia, Inc.
Nitro, West Virginia

Date		Depth to Water (ft. TOC)	Depth to Product (ft. TOC)	Product Thickness (feet)	Corrected Ground-Water Elevation (ft. MSL)	Product Elevation (ft. MSL)	Dissolved Oxygen (ppm)	pH (SU)	Iron (mg/l)	Manganese (mg/l)
09/12/95		--	--	--	--	--	--	--	--	--
07/16/96		--	--	--	--	--	--	--	--	--
10/07/96		--	--	--	--	--	8.50	5.72	47.20	7.88
07/10/97		--	--	--	--	--	3.59	6.00	--	--
10/28/97	(1)	27.98	26.60	1.38	566.89	567.19	--	--	--	--
11/03/97	(1)	28.15	26.65	1.50	566.81	567.14	--	--	--	--
11/20/97	(1)	28.00	26.56	1.44	566.91	567.23	--	--	--	--
12/16/97	(1)	--	--	--	--	--	--	--	--	--
01/28/98	(1)	27.15	26.32	0.83	567.29	567.47	--	--	--	--
03/02/98	(1)	--	--	--	--	--	--	--	--	--
03/09/98	(1)	26.41	ND	0.00	567.38	ND	--	--	--	--
03/14/98	(1)	--	--	--	--	--	--	--	--	--
03/30/98		26.45	ND	0.00	567.34	ND	--	--	--	--
04/08/98	(2)	--	--	--	--	--	--	--	--	--
04/17/98	(2)	--	--	--	--	--	--	--	--	--
04/22/98	(2)	--	--	--	--	--	--	--	--	--
05/04/98	(2)	--	--	--	--	--	--	--	--	--
05/26/98	(2)	--	--	--	--	--	--	--	--	--
06/03/98	(2)	--	--	--	--	--	--	--	--	--
06/25/98	(2)	--	--	--	--	--	--	--	--	--
07/08/98	(2)	--	--	--	--	--	--	--	--	--
07/17/98	(2)	--	--	--	--	--	--	--	--	--
08/11/98	(2)	--	--	--	--	--	--	--	--	--
08/17/98		--	--	--	--	--	--	--	--	--
08/25/98		--	--	--	--	--	--	--	--	--
09/08/98		--	--	--	--	--	--	--	--	--
09/14/98		--	--	--	--	--	--	--	--	--

Top of Casing Elev. = 593.79 (ft. MSL)

Abbreviations:

ft. TOC = Measured in feet from top of well casing
ft. MSL = Measured in feet above Mean Sea Level
ppm = parts per million
SU = Standard Units
mg/l = milligrams per liter

-- = Not Sampled
ND = Not Detected
(1) = Site Pro Pump Inoperative
(2) = Site Pro Pump in well
(3) = Ferret Passive Pump in Well

ROUX ASSOCIATES INC

MO06619J04.29

Summary of Ground-Water Analytical Data for LNAPL Well EW-2
Solutia, Inc.
Nitro, West Virginia

Date	Depth to Water (ft. TOC)	Depth to Product (ft. TOC)	Product Thickness (feet)	Corrected Ground-Water Elevation (ft. MSL)	Product Elevation (ft. MSL)	Dissolved Oxygen (ppm)	pH (SU)	Iron (mg/l)	Manganese (mg/l)
09/12/95	--	--	--	--	--	--	--	--	--
07/16/96	--	--	--	--	--	--	--	--	--
10/07/96	--	--	--	--	--	8.30	6.07	44.70	7.77
07/10/97	--	--	--	--	--	3.02	6.20	--	--
10/28/97	26.64	ND	0.00	566.93	ND	--	--	--	--
11/03/97	26.70	ND	0.00	566.87	ND	--	--	--	--
11/20/97	26.58	ND	0.00	566.99	ND	--	--	--	--
12/16/97	26.72	ND	0.00	566.85	ND	--	--	--	--
01/28/98	26.23	ND	0.00	567.34	ND	--	--	--	--
03/02/98	25.90	ND	0.00	567.67	ND	--	--	--	--
03/09/98	26.15	ND	0.00	567.42	ND	--	--	--	--
03/14/98	26.08	ND	0.00	567.49	ND	--	--	--	--
03/30/98	26.20	ND	0.00	567.37	ND	--	--	--	--
04/08/98	26.41	ND	0.00	567.16	ND	--	--	--	--
04/17/98	26.47	ND	0.00	567.10	ND	--	--	--	--
04/22/98	26.47	ND	0.00	567.10	ND	--	--	--	--
05/04/98	25.78	ND	0.00	567.79	ND	--	--	--	--
05/26/98	26.25	ND	0.00	567.32	ND	--	--	--	--
06/03/98	26.46	ND	0.00	567.11	ND	--	--	--	--
06/25/98	26.37	ND	0.00	567.20	ND	--	--	--	--
07/08/98	26.37	ND	0.00	567.20	ND	--	--	--	--
07/17/98	26.50	ND	0.00	567.07	ND	--	--	--	--
08/11/98	26.56	ND	0.00	567.01	ND	--	--	--	--
08/17/98	26.62	ND	0.00	566.95	ND	--	--	--	--
08/25/98	26.47	ND	0.00	567.10	ND	--	--	--	--
09/08/98	26.51	ND	0.00	567.06	ND	--	--	--	--
09/14/98	26.56	ND	0.00	567.01	ND	--	--	--	--

Top of Casing Elev. = 593.57 (ft. MSL)

Abbreviations:

ft. TOC = Measured in feet from top of well casing
ft. MSL = Measured in feet above Mean Sea Level
ppm = parts per million
SU = Standard Units
mg/l = milligrams per liter

-- = Not Sampled
ND = Not Detected
(1) = Site Pro Pump Inoperative
(2) = Site Pro Pump in well
(3) = Ferret Passive Pump in Well

Summary of Ground-Water Analytical Data for LNAPL Well EW-3
Solutia, Inc.
Nitro, West Virginia

Date	Depth to Water (ft. TOC)	Depth to Product (ft. TOC)	Product Thickness (feet)	Corrected Ground-Water Elevation (ft. MSL)	Product Elevation (ft. MSL)	Dissolved Oxygen (ppm)	pH (SU)	Iron (mg/l)	Manganese (mg/l)
09/12/95	--	--	--	--	--	--	--	--	--
07/16/96	--	--	--	--	--	--	--	--	--
10/07/96	--	--	--	--	--	8.60	5.71	25.00	7.95
07/10/97	--	--	--	--	--	3.17	5.90	--	--
10/28/97	26.72	ND	0.00	566.96	ND	--	--	--	--
11/03/97	26.80	ND	0.00	566.88	ND	--	--	--	--
11/20/97	26.59	ND	0.00	566.99	ND	--	--	--	--
12/16/97	26.78	ND	0.00	566.90	ND	--	--	--	--
01/28/98	26.33	ND	0.00	567.35	ND	--	--	--	--
03/02/98	26.00	ND	0.00	567.68	ND	--	--	--	--
03/09/98	26.22	ND	0.00	567.46	ND	--	--	--	--
03/14/98	26.15	ND	0.00	567.53	ND	--	--	--	--
03/30/98	26.25	ND	0.00	567.43	ND	--	--	--	--
04/08/98	26.50	ND	0.00	567.18	ND	--	--	--	--
04/17/98	26.51	ND	0.00	567.17	ND	--	--	--	--
04/22/98	26.51	ND	0.00	567.17	ND	--	--	--	--
05/04/98	25.82	ND	0.00	567.86	ND	--	--	--	--
05/26/98	26.29	ND	0.00	567.39	ND	--	--	--	--
06/03/98	26.50	ND	0.00	567.18	ND	--	--	--	--
06/25/98	26.41	ND	0.00	567.27	ND	--	--	--	--
07/08/98	26.40	ND	0.00	567.28	ND	--	--	--	--
07/17/98	26.54	ND	0.00	567.14	ND	--	--	--	--
08/11/98	26.60	ND	0.00	567.08	ND	--	--	--	--
08/17/98	26.67	ND	0.00	567.01	ND	--	--	--	--
08/25/98	26.51	ND	0.00	567.17	ND	--	--	--	--
09/08/98	26.57	ND	0.00	567.11	ND	--	--	--	--
09/14/98	26.61	ND	0.00	567.07	ND	--	--	--	--

Top of Casing Elev. = 593.68 (ft. MSL)

Abbreviations:

ft. TOC = Measured in feet from top of well casing
ft. MSL = Measured in feet above Mean Sea Level
ppm = parts per million
SU = Standard Units
mg/l = milligrams per liter

-- = Not Sampled
ND = Not Detected
(1) = Site Pro Pump Inoperative
(2) = Site Pro Pump in well
(3) = Ferret Passive Pump in Well

ROUX ASSOCIATES INC

MO06619/04.29

Summary of Ground-Water Analytical Data for LNAPL Well EW-4
Solutia, Inc.
Nitro, West Virginia

Date	Depth to Water (ft. TOC)	Depth to Product (ft. TOC)	Product Thickness (feet)	Corrected Ground-Water Elevation (ft. MSL)	Product Elevation (ft. MSL)	Dissolved Oxygen (ppm)	pH (SU)	Iron (mg/l)	Manganese (mg/l)
09/12/95	--	--	--	--	--	--	--	--	--
07/16/96	--	--	--	--	--	--	--	--	--
10/07/96	--	--	--	--	--	8.40	5.75	24.00	2.98
07/10/97	--	--	--	--	--	3.56	5.80	--	--
10/28/97	25.86	ND	0.00	557.06	ND	--	--	--	--
11/03/97	25.92	ND	0.00	557.00	ND	--	--	--	--
11/20/97	26.68	ND	0.00	566.99	ND	--	--	--	--
12/16/97	25.95	ND	0.00	556.97	ND	--	--	--	--
01/28/98	25.53	ND	0.00	557.39	ND	--	--	--	--
03/02/98	25.15	ND	0.00	557.77	ND	--	--	--	--
03/09/98	25.36	ND	0.00	557.56	ND	--	--	--	--
03/14/98	25.27	ND	0.00	557.65	ND	--	--	--	--
03/30/98	25.41	ND	0.00	557.51	ND	--	--	--	--
04/08/98	25.62	ND	0.00	557.30	ND	--	--	--	--
04/17/98	25.66	ND	0.00	557.26	ND	--	--	--	--
04/22/98	25.66	ND	0.00	557.26	ND	--	--	--	--
05/04/98	24.96	ND	0.00	557.96	ND	--	--	--	--
05/26/98	25.42	ND	0.00	557.50	ND	--	--	--	--
06/03/98	25.65	ND	0.00	557.27	ND	--	--	--	--
06/25/98	26.51	ND	0.00	556.41	ND	--	--	--	--
07/08/98	25.53	ND	0.00	557.39	ND	--	--	--	--
07/17/98	25.66	ND	0.00	557.26	ND	--	--	--	--
08/11/98	25.74	ND	0.00	557.18	ND	--	--	--	--
08/17/98	25.80	ND	0.00	557.12	ND	--	--	--	--
08/25/98	25.65	ND	0.00	557.27	ND	--	--	--	--
09/08/98	25.70	ND	0.00	557.22	ND	--	--	--	--
09/14/98	25.75	ND	0.00	557.17	ND	--	--	--	--

Top of Casing Elev. = 582.92 (ft. MSL)

Abbreviations:

ft. TOC = Measured in feet from top of well casing
ft. MSL = Measured in feet above Mean Sea Level
ppm = parts per million
SU = Standard Units
mg/l = milligrams per liter

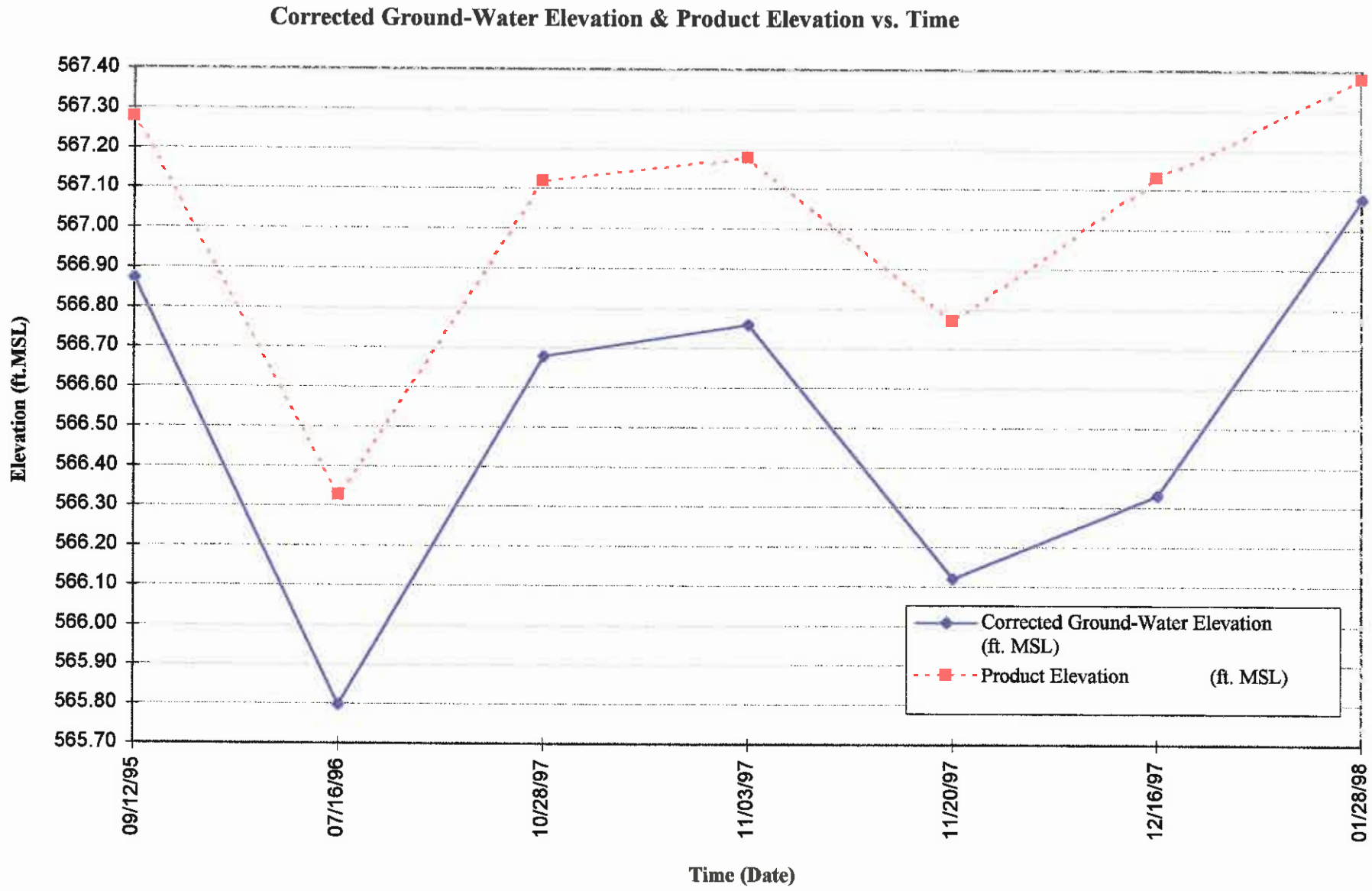
-- = Not Sampled
ND = Not Detected
(1) = Site Pro Pump Inoperative
(2) = Site Pro Pump in well
(3) = Ferret Passive Pump in Well

ROUX ASSOCIATES INC

MO06619J04.29

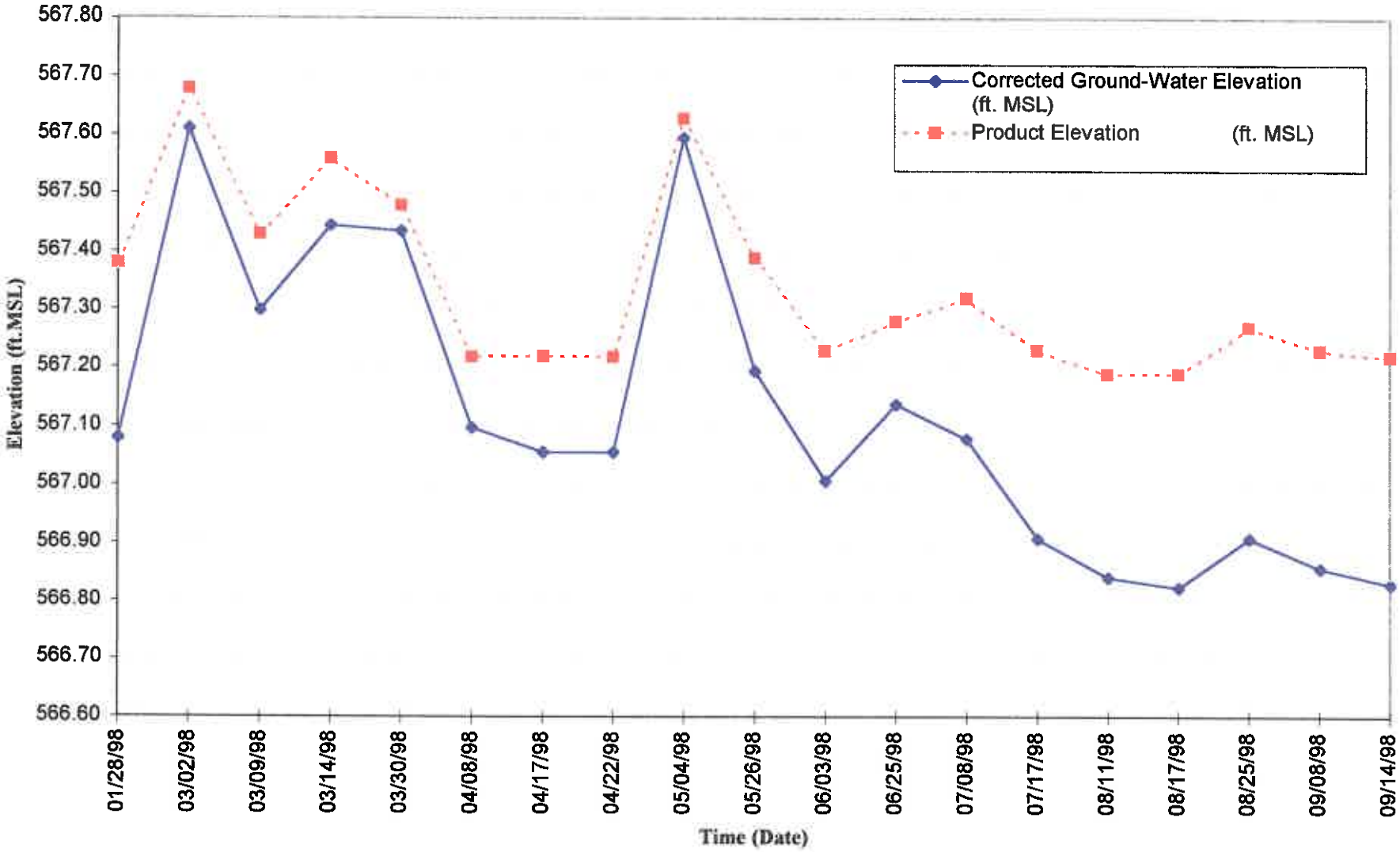
APPENDIX R

Solutia, Inc.
Nitro, West Virginia
LNAPL Well # MW-7 (1)



Solutia, Inc.
Nitro, West Virginia
LNAPL Well # MW-7 (2)

Corrected Ground-Water Elevation & Product Elevation vs. Time



Summary of Ground-Water Analytical Data for LNAPL Well MW-7
Solutia, Inc.
Nitro, West Virginia

Date	Depth to Water (ft. TOC)	Depth to Product (ft. TOC)	Product Thickness (feet)	Corrected Ground-Water Elevation (ft. MSL)	Product Elevation (ft. MSL)	Dissolved Oxygen (ppm)	pH (SU)	Iron (mg/l)	Manganese (mg/l)
09/12/95	28.59	26.75	1.84	566.88	567.28	--	--	--	--
07/16/96	30.10	27.70	2.40	565.80	566.33	--	--	--	--
10/07/96	--	--	--	--	--	--	--	--	--
07/10/97	--	--	--	--	--	--	--	--	--
10/28/97	28.90	26.91	1.99	566.68	567.12	--	--	--	--
11/03/97	28.75	26.85	1.90	566.76	567.18	--	7.80	--	--
11/20/97	30.20	27.26	2.94	566.12	566.77	--	--	--	--
12/16/97	30.52	26.90	3.62	566.33	567.13	--	--	--	--
01/28/98	28.01	26.65	1.36	567.08	567.38	--	--	--	--
03/02/98	26.66	26.35	0.31	567.61	567.68	--	--	--	--
03/09/98	27.19	26.60	0.59	567.30	567.43	--	--	--	--
03/14/98	26.99	26.47	0.52	567.45	567.56	--	--	--	--
03/30/98	26.75	26.55	0.20	567.44	567.48	--	--	--	--
04/08/98	27.36	26.81	0.55	567.10	567.22	--	--	--	--
04/17/98	27.55	26.81	0.74	567.06	567.22	--	--	--	--
04/22/98	27.55	26.81	0.74	567.06	567.22	--	--	--	--
05/04/98	26.55	26.40	0.15	567.60	567.63	--	--	--	--
05/26/98	27.52	26.64	0.88	567.20	567.39	--	--	--	--
06/03/98	27.81	26.80	1.01	567.01	567.23	--	--	--	--
06/25/98	27.39	26.75	0.64	567.14	567.28	--	--	--	--
07/08/98	27.80	26.71	1.09	567.08	567.32	--	--	--	--
07/17/98	28.26	26.80	1.46	566.91	567.23	--	--	--	--
08/11/98	28.42	26.84	1.58	566.84	567.19	--	--	--	--
08/17/98	28.50	26.84	1.66	566.82	567.19	--	--	--	--
08/25/98	28.40	26.76	1.64	566.91	567.27	--	--	--	--
09/08/98	28.49	26.80	1.69	566.86	567.23	--	--	--	--
09/14/98	28.58	26.81	1.77	566.83	567.22	--	--	--	--

Top of Casing Elev. = 594.03 (ft. MSL)

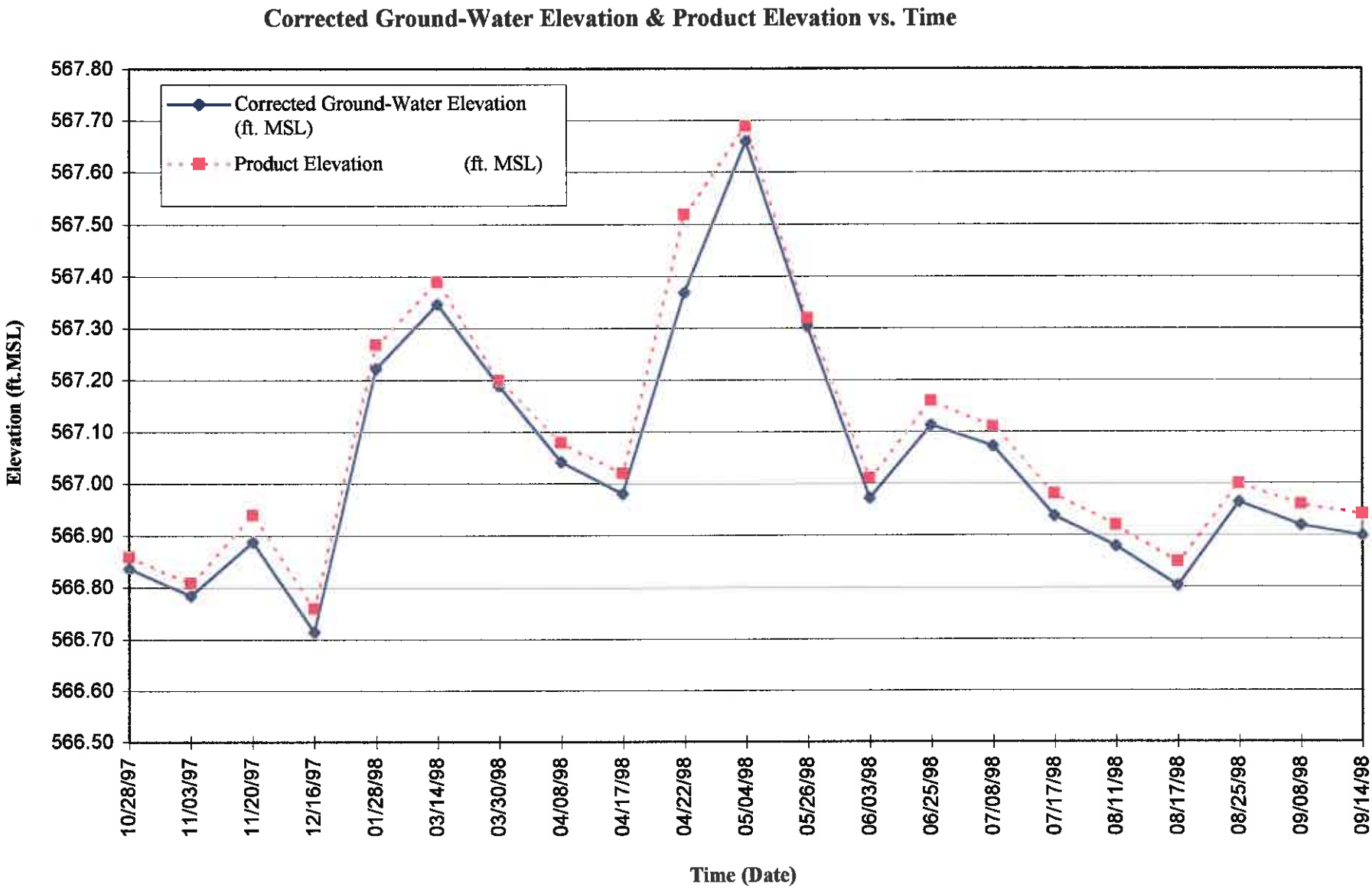
Abbreviations:

ft. TOC = Measured in feet from top of well casing
ft. MSL = Measured in feet above Mean Sea Level
ppm = parts per million
SU = Standard Units
mg/l = milligrams per liter

-- = Not Sampled
ND = Not Detected
(1) = Site Pro Pump Inoperative
(2) = Site Pro Pump in well
(3) = Ferret Passive Pump in Well

APPENDIX S

Solutia, Inc.
Nitro, West Virginia
LNAPL Well # M-1



Summary of Ground-Water Analytical Data for LNAPL Well M-1
Solutia, Inc.
Nitro, West Virginia

Date	Depth to Water (ft. TOC)	Depth to Product (ft. TOC)	Product Thickness (feet)	Corrected Ground-Water Elevation (ft. MSL)	Product Elevation (ft. MSL)	Dissolved Oxygen (ppm)	pH (SU)	Iron (mg/l)	Manganese (mg/l)
09/12/95	29.02	27.79	1.23	566.90	567.17	--	--	--	--
07/16/96	28.86	28.41	0.45	566.45	566.55	--	--	--	--
10/07/96	--	--	--	--	--	--	--	--	--
07/10/97	--	--	--	--	--	--	--	--	--
10/28/97	28.20	28.10	0.10	566.84	566.86	--	--	--	--
11/03/97	28.26	28.15	0.11	566.79	566.81	--	--	--	--
11/20/97	28.25	28.02	0.23	566.89	566.94	--	--	--	--
12/16/97	28.40	28.20	0.20	566.72	566.76	--	--	--	--
01/28/98	27.90	27.69	0.21	567.22	567.27	--	--	--	--
03/02/98	27.35	ND	0.00	567.61	ND	--	--	--	--
03/09/98	27.83	ND	0.0.0	567.13	ND	--	--	--	--
03/14/98	27.76	27.57	0.19	567.35	567.39	--	--	--	--
03/30/98	27.80	27.76	0.04	567.19	567.20	--	--	--	--
04/08/98	28.05	27.88	0.17	567.04	567.08	--	--	--	--
04/17/98	28.12	27.94	0.18	566.98	567.02	--	--	--	--
04/22/98	28.12	27.44	0.68	567.37	567.52	--	--	--	--
05/04/98	27.40	27.27	0.13	567.66	567.69	--	--	--	--
05/26/98	27.71	27.64	0.07	567.30	567.32	--	--	--	--
06/03/98	28.12	27.95	0.17	566.97	567.01	--	--	--	--
06/25/98	28.01	27.80	0.21	567.11	567.16	--	--	--	--
07/08/98	28.02	27.85	0.17	567.07	567.11	--	--	--	--
07/17/98	28.17	27.98	0.19	566.94	566.98	--	--	--	--
08/11/98	28.22	28.04	0.18	566.88	566.92	--	--	--	--
08/17/98	28.32	28.11	0.21	566.80	566.85	--	--	--	--
08/25/98	28.12	27.96	0.16	566.96	567.00	--	--	--	--
09/08/98	28.18	28.00	0.18	566.92	566.96	--	--	--	--
09/14/98	28.20	28.02	0.18	566.90	566.94	--	--	--	--

Top of Casing Elev. = 594.96 (ft. MSL)

Abbreviations:

ft. TOC = Measured in feet from top of well casing
ft. MSL = Measured in feet above Mean Sea Level
ppm = parts per million
SU = Standard Units
mg/l = milligrams per liter

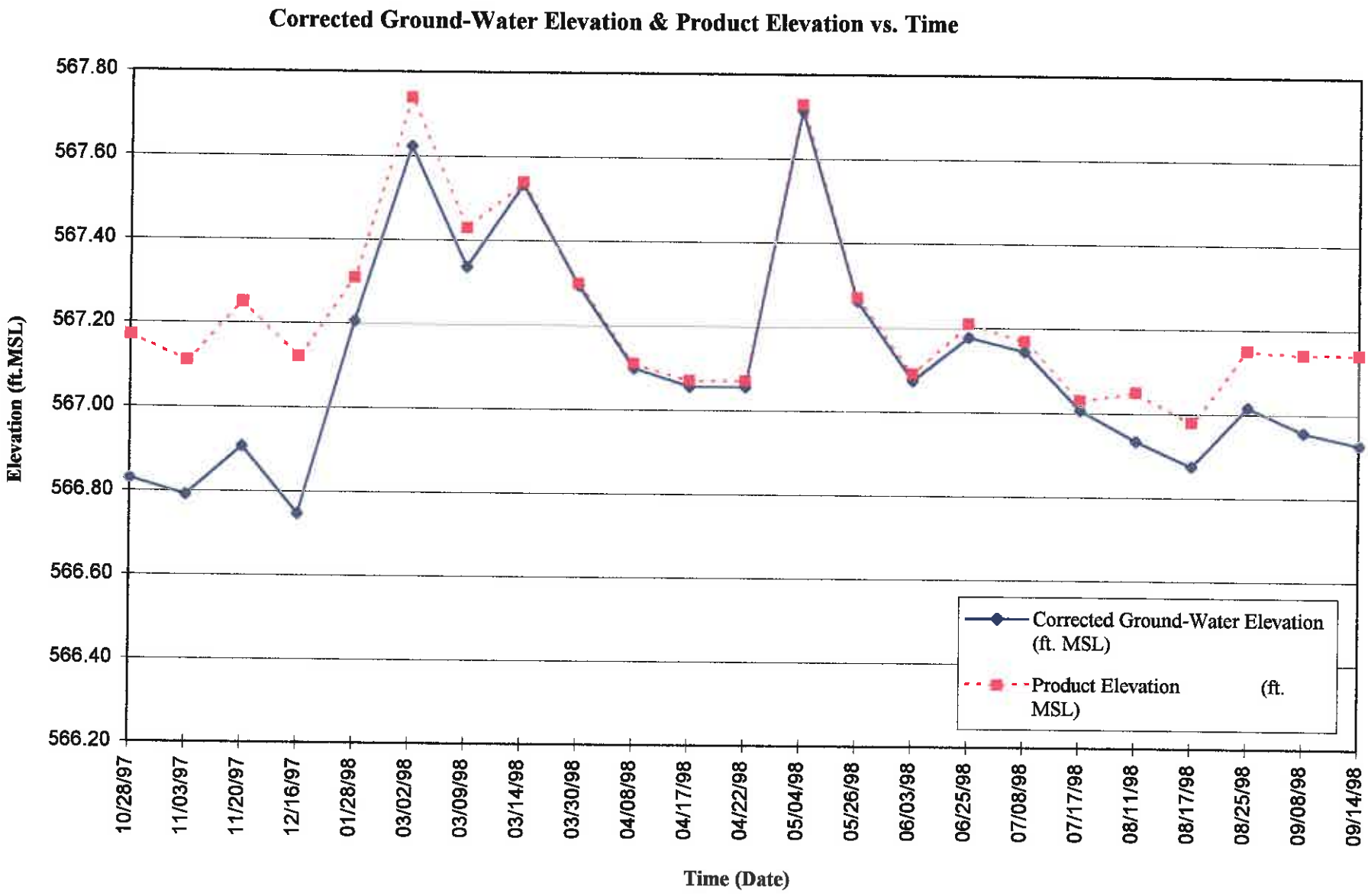
-- = Not Sampled
ND = Not Detected
(1) = Site Pro Pump Inoperative
(2) = Site Pro Pump in well
(3) = Ferret Passive Pump in Well

ROUX ASSOCIATES INC

MO06619/04.29

APPENDIX T

Solutia, Inc.
Nitro, West Virginia
LNAPL Well # R-2



Summary of Ground-Water Analytical Data for LNAPL Well R-2
Solutia, Inc.
Nitro, West Virginia

Date	Depth to Water (ft. TOC)	Depth to Product (ft. TOC)	Product Thickness (feet)	Corrected Ground-Water Elevation (ft. MSL)	Product Elevation (ft. MSL)	Dissolved Oxygen (ppm)	pH (SU)	Iron (mg/l)	Manganese (mg/l)
09/12/95	--	--	--	--	--	--	--	--	--
07/16/96	--	--	--	--	--	--	--	--	--
10/07/96	--	--	--	--	--	--	--	--	--
07/10/97	--	--	--	--	--	--	--	--	--
10/28/97	27.29	25.75	1.54	566.83	567.17	--	--	--	--
11/03/97	27.25	25.81	1.44	566.79	567.11	--	--	--	--
11/20/97	27.22	25.67	1.55	566.91	567.25	--	--	--	--
12/16/97	27.49	25.80	1.69	566.75	567.12	--	--	--	--
01/28/98	26.08	25.61	0.47	567.21	567.31	--	--	--	--
03/02/98	25.70	25.18	0.52	567.63	567.74	--	--	--	--
03/09/98	25.91	25.49	0.42	567.34	567.43	--	--	--	--
03/14/98	25.40	25.38	0.02	567.54	567.54	--	--	--	--
03/30/98	25.64	25.62	0.02	567.30	567.30	--	--	--	--
04/08/98	25.86	25.81	0.05	567.10	567.11	--	--	--	--
04/17/98	25.91	25.85	0.06	567.06	567.07	--	--	--	--
04/22/98	25.91	25.85	0.06	567.06	567.07	--	--	--	--
05/04/98	25.25	25.19	0.06	567.72	567.73	--	--	--	--
05/26/98	25.68	25.65	0.03	567.26	567.27	--	--	--	--
06/03/98	25.90	25.83	0.07	567.07	567.09	--	--	--	--
06/25/98	25.85	25.71	0.14	567.18	567.21	--	--	--	--
07/08/98	25.86	25.75	0.11	567.15	567.17	--	--	--	--
07/17/98	25.99	25.89	0.10	567.01	567.03	--	--	--	--
08/11/98	26.39	25.87	0.52	566.94	567.05	--	--	--	--
08/17/98	26.41	25.94	0.47	566.88	566.98	--	--	--	--
08/25/98	26.37	25.77	0.60	567.02	567.15	--	--	--	--
09/08/98	26.61	25.78	0.83	566.96	567.14	--	--	--	--
09/14/98	26.74	25.78	0.96	566.93	567.14	--	--	--	--

Top of Casing Elev. = 592.92 (ft. MSL)

Abbreviations:

ft. TOC = Measured in feet from top of well casing
ft. MSL = Measured in feet above Mean Sea Level
ppm = parts per million
SU = Standard Units
mg/l = milligrams per liter

-- = Not Sampled
ND = Not Detected
(1) = Site Pro Pump Inoperative
(2) = Site Pro Pump in well
(3) = Ferret Passive Pump in Well

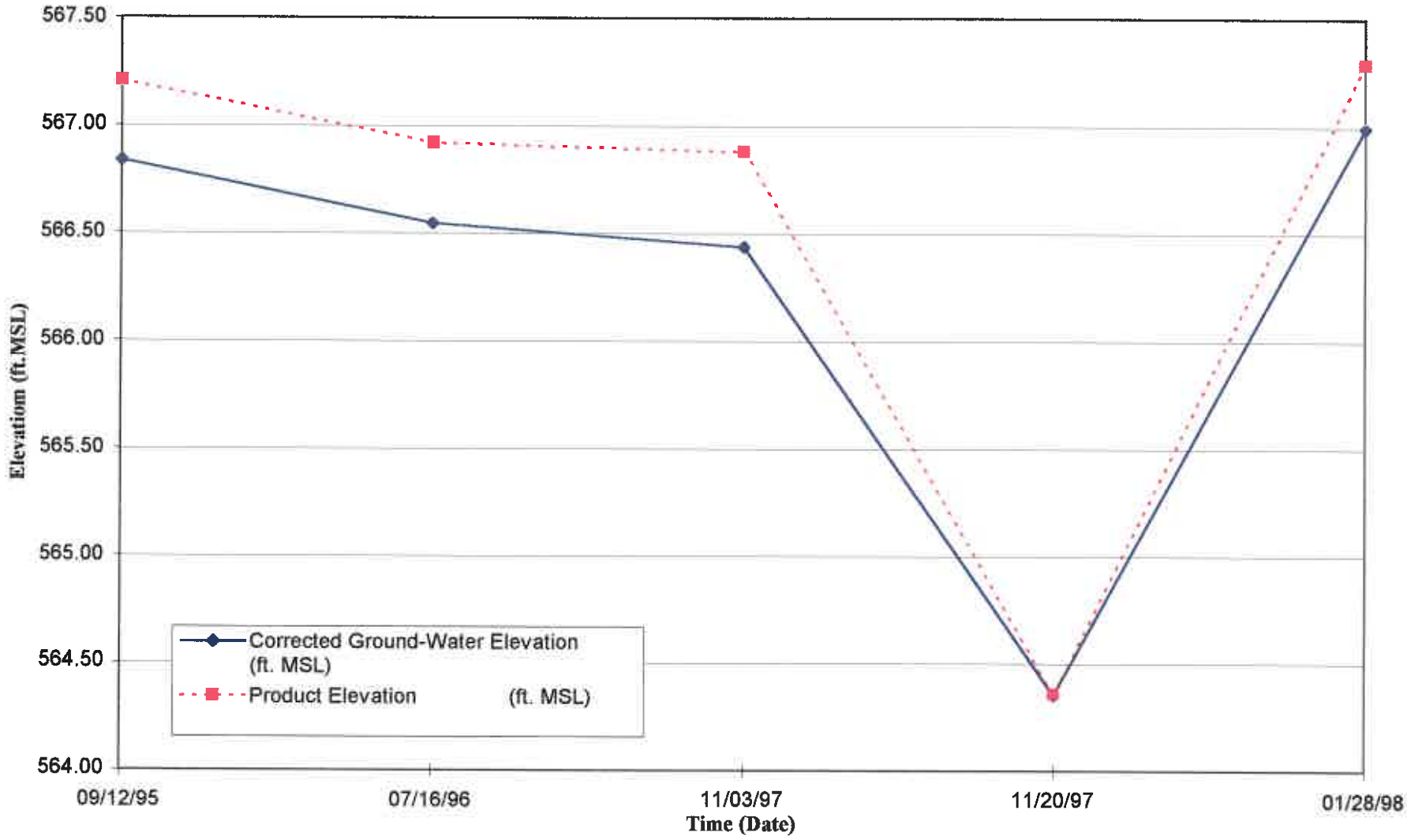
ROUX ASSOCIATES INC

MO06619J04.29

APPENDIX U

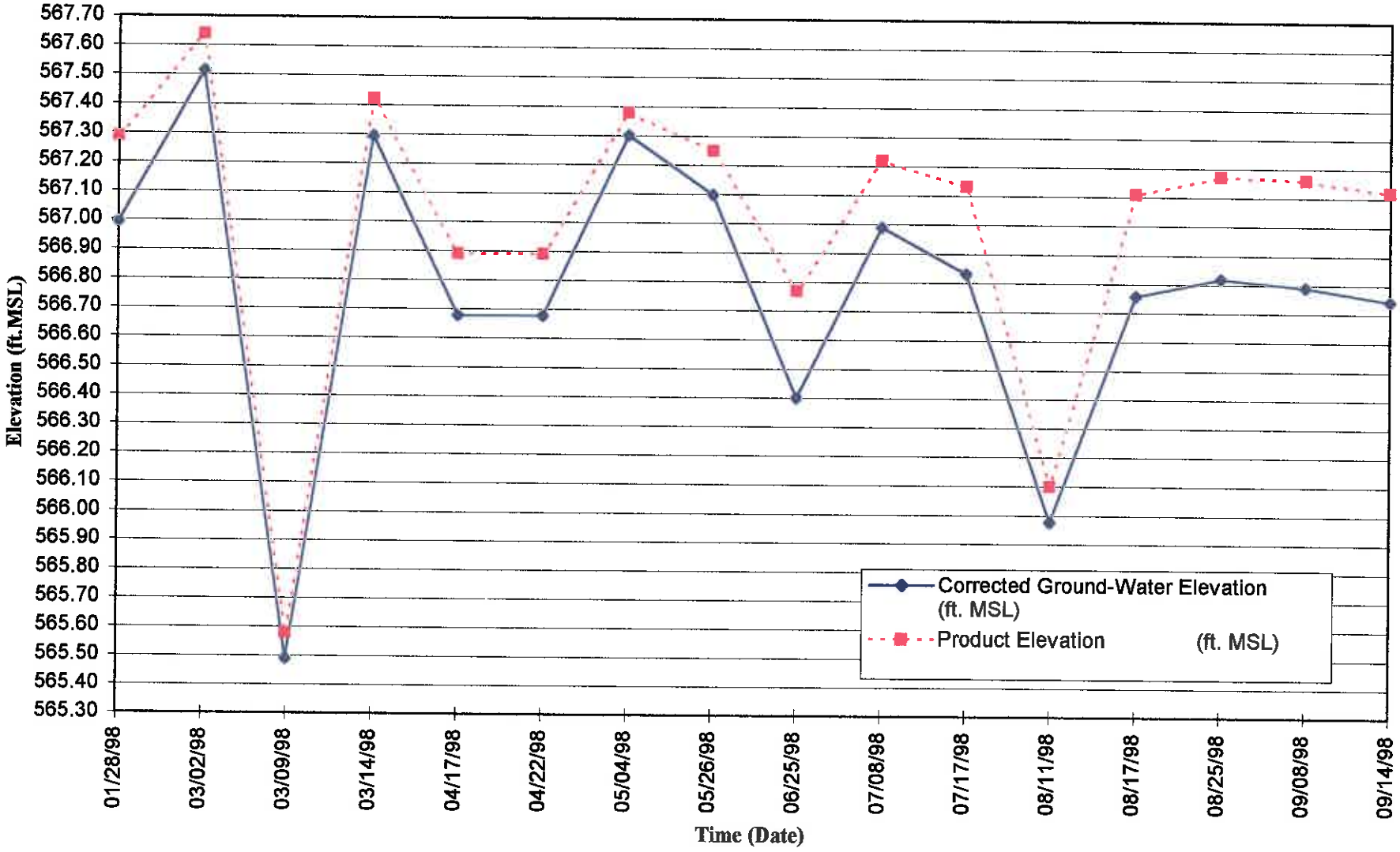
Solutia, Inc.
Nitro, West Virginia
LNAPL Well B-1 (1)

Corrected Ground-Water & Product Elevation vs. Time



Solutia, Inc.
Nitro, West Virginia
LNAPL Well B-1 (2)

Corrected Ground-Water Elevation & Product Elevation vs. Time



ROUX ASSOCIATES INC

MO06619J04.29

Summary of Ground-Water Analytical Data for LNAPL Well B-1
Solutia, Inc.
Nitro, West Virginia

Date	Depth to Water (ft. TOC)	Depth to Product (ft. TOC)	Product Thickness (feet)	Corrected Ground-Water Elevation (ft. MSL)	Product Elevation (ft. MSL)	Dissolved Oxygen (ppm)	pH (SU)	Iron (mg/l)	Manganese (mg/l)
09/12/95	29.46	27.77	1.69	566.84	567.21	--	--	--	--
07/16/96	29.75	28.06	1.69	566.55	566.92	--	--	--	--
10/07/96	--	--	--	--	--	--	--	--	--
07/10/97	--	--	--	--	--	--	--	--	--
10/28/97	--	--	--	--	--	--	--	--	--
11/03/97	30.10	28.10	2.00	566.44	566.88	--	--	--	--
11/20/97	30.65	30.62	0.03	564.35	564.36	--	--	--	--
12/16/97 (3)	--	--	--	--	--	--	--	--	--
01/28/98 (3)	29.03	27.69	1.34	567.00	567.29	--	--	--	--
03/02/98 (3)	27.90	27.34	0.56	567.52	567.64	--	--	--	--
03/09/98 (3)	29.80	29.40	0.40	565.49	565.58	--	--	--	--
03/14/98 (3)	28.12	27.56	0.56	567.30	567.42	--	--	--	--
03/30/98 (3)	28.35	ND	0.00	566.63	ND	--	--	--	--
04/08/98 (3)	--	--	--	--	--	--	--	--	--
04/17/98	29.05	28.09	0.96	566.68	566.89	--	--	--	--
04/22/98	29.05	28.09	0.96	566.68	566.89	--	--	--	--
05/04/98	27.95	27.60	0.35	567.30	567.38	--	--	--	--
05/26/98	28.41	27.73	0.68	567.10	567.25	--	--	--	--
06/03/98	28.15	ND	0.00	566.83	ND	--	--	--	--
06/25/98	29.89	28.21	1.68	566.40	566.77	--	--	--	--
07/08/98	28.80	27.76	1.04	566.99	567.22	--	--	--	--
07/17/98	29.20	27.85	1.35	566.83	567.13	--	--	--	--
08/11/98	29.43	28.88	0.55	565.98	566.10	--	--	--	--
08/17/98	29.46	27.87	1.59	566.76	567.11	--	--	--	--
08/25/98	29.40	27.81	1.59	566.82	567.17	--	--	--	--
09/08/98	29.49	27.82	1.67	566.79	567.16	--	--	--	--
09/14/98	29.56	27.86	1.70	566.75	567.12	--	--	--	--

Top of Casing Elev. = 594.98 (ft. MSL)

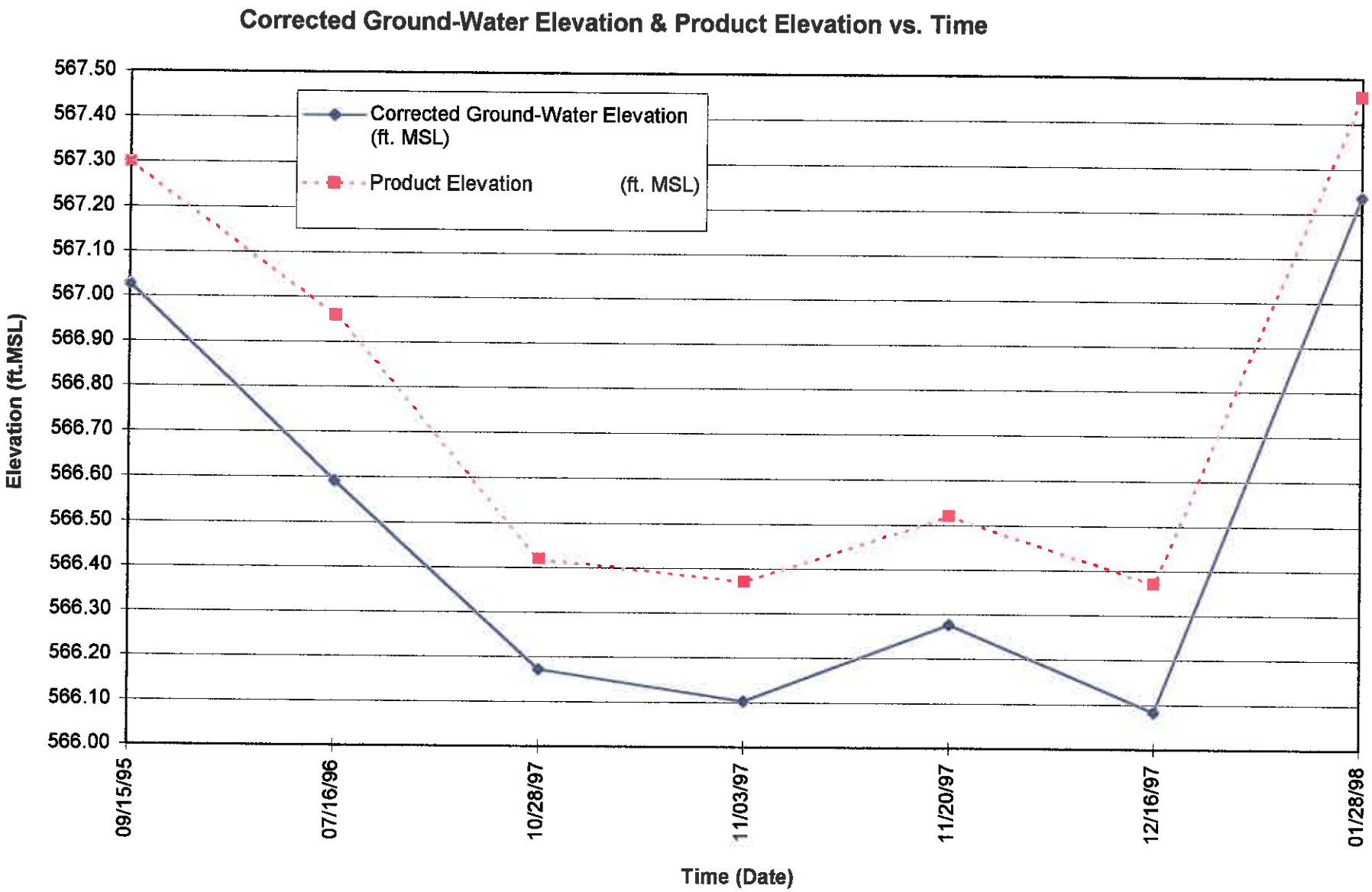
Abbreviations:

ft. TOC = Measured in feet from top of well casing
ft. MSL = Measured in feet above Mean Sea Level
ppm = parts per million
SU = Standard Units
mg/l = milligrams per liter

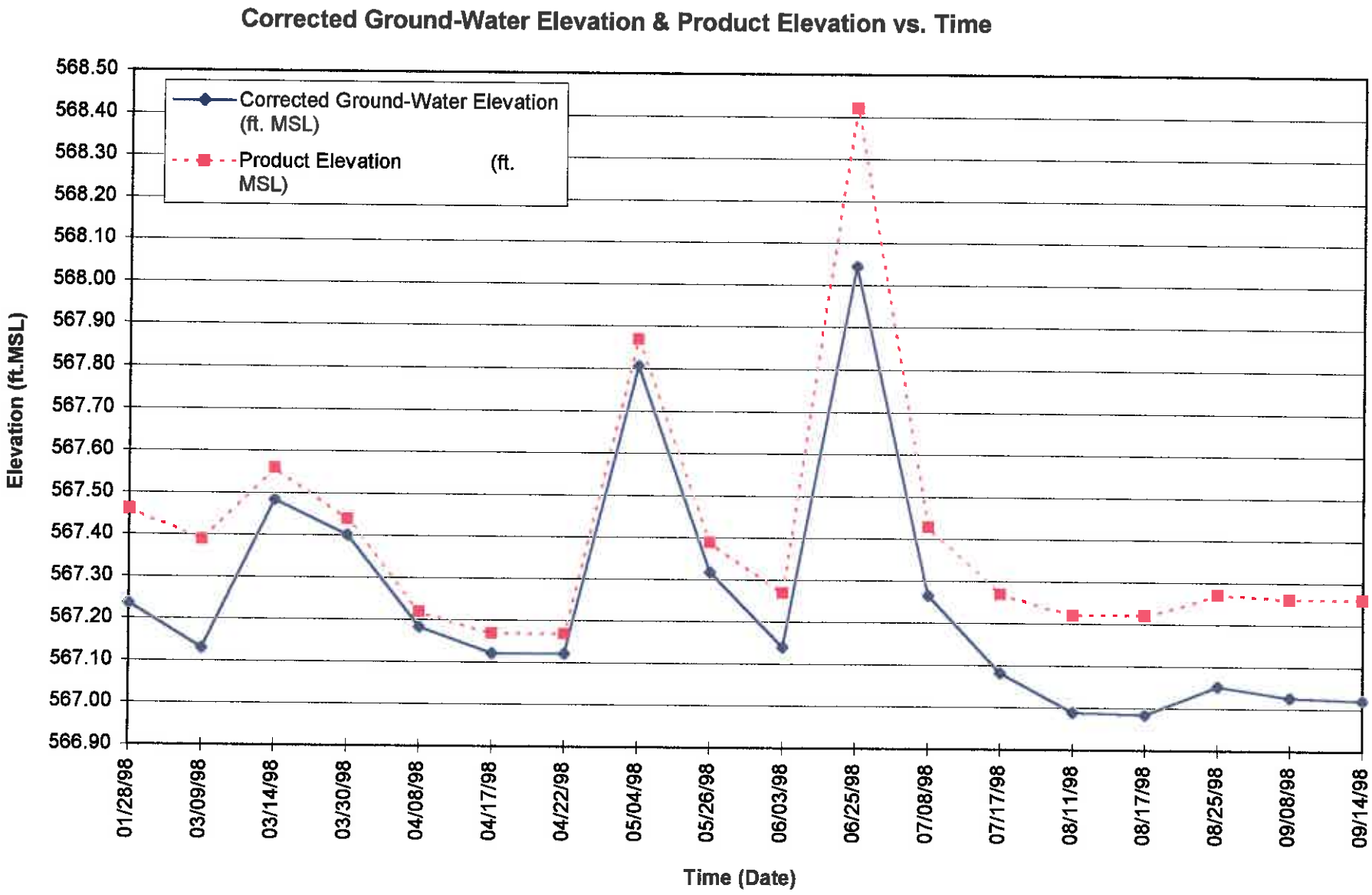
-- = Not Sampled
ND = Not Detected
(1) = Site Pro Pump Inoperative
(2) = Site Pro Pump in well
(3) = Ferret Passive Pump in Well

APPENDIX V

Solutia, Inc.
Nitro, West Virginia
LNAPL Well # B-2 (1)



Solutia, Inc.
Nitro, West Virginia
LNAPL Well # B-2 (2)



Summary of Ground-Water Analytical Data for LNAPL Well B-2
Solutia, Inc.
Nitro, West Virginia

Date		Depth to Water (ft. TOC)	Depth to Product (ft. TOC)	Product Thickness (feet)	Corrected Ground-Water Elevation (ft. MSL)	Product Elevation (ft. MSL)	Dissolved Oxygen (ppm)	pH (SU)	Iron (mg/l)	Manganese (mg/l)
09/15/95		26.8	25.57	1.23	567.03	567.30	--	--	--	--
07/16/96		27.58	25.91	1.67	566.59	566.96	--	--	--	--
10/07/96		--	--	--	--	--	--	--	--	--
07/10/97		--	--	--	--	--	--	--	--	--
10/28/97	(3)	27.57	26.45	1.12	566.17	566.42	--	--	--	--
11/03/97	(3)	27.71	26.50	1.21	566.10	566.37	--	--	--	--
11/20/97	(3)	27.45	26.35	1.10	566.28	566.52	--	--	--	--
12/16/97	(3)	27.80	26.50	1.30	566.08	566.37	--	--	--	--
01/28/98	(3)	26.42	25.41	1.01	567.24	567.46	--	--	--	--
03/02/98	(3)	25.16	ND	0.00	567.71	ND	--	--	--	--
03/09/98	(3)	26.65	25.48	1.17	567.13	567.39	--	--	--	--
03/14/98	(3)	25.65	25.31	0.34	567.49	567.56	--	--	--	--
03/30/98		25.60	25.43	0.17	567.40	567.44	--	--	--	--
04/08/98		25.81	25.65	0.16	567.18	567.22	--	--	--	--
04/17/98		25.91	25.70	0.21	567.12	567.17	--	--	--	--
04/22/98		25.91	25.70	0.21	567.12	567.17	--	--	--	--
05/04/98		25.28	25.00	0.28	567.81	567.87	--	--	--	--
05/26/98		25.80	25.48	0.32	567.32	567.39	--	--	--	--
06/03/98		26.18	25.60	0.58	567.14	567.27	--	--	--	--
06/25/98		26.15	24.45	1.70	568.05	568.42	--	--	--	--
07/08/98		26.18	25.44	0.74	567.27	567.43	--	--	--	--
07/17/98		26.45	25.60	0.85	567.08	567.27	--	--	--	--
08/11/98		26.69	25.65	1.04	566.99	567.22	--	--	--	--
08/17/98		26.71	25.65	1.06	566.99	567.22	--	--	--	--
08/25/98		26.58	25.60	0.98	567.05	567.27	--	--	--	--
09/08/98		26.66	25.61	1.05	567.03	567.26	--	--	--	--
09/14/98		26.69	25.61	1.08	567.02	567.26	--	--	--	--

Top of Casing Elev. = 592.87 (ft. MSL)

Abbreviations:

ft. TOC = Measured in feet from top of well casing
ft. MSL = Measured in feet above Mean Sea Level
ppm = parts per million
SU = Standard Units
mg/l = milligrams per liter

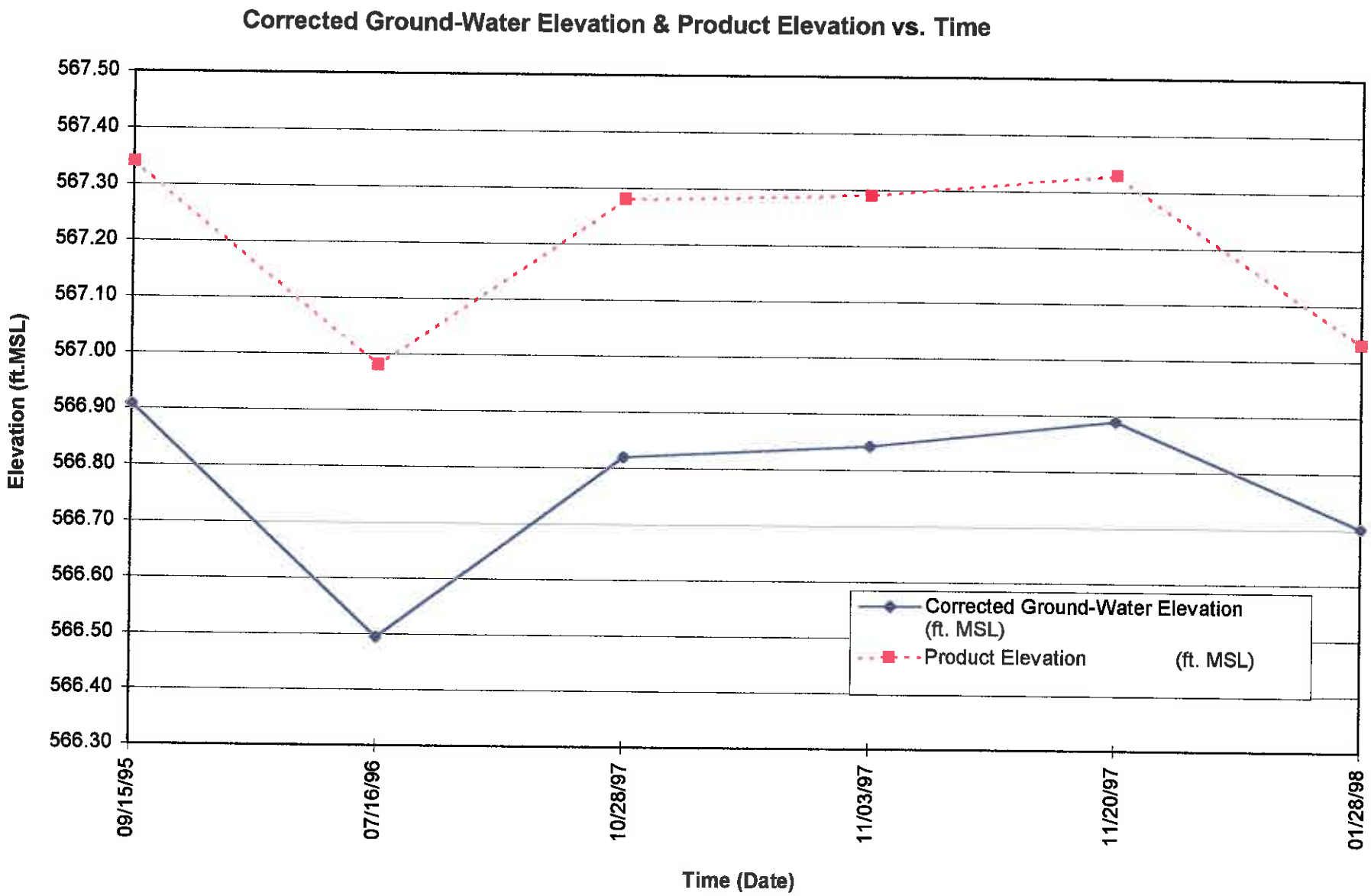
-- = Not Sampled
ND = Not Detected
(1) = Site Pro Pump Inoperative
(2) = Site Pro Pump in well
(3) = Ferret Passive Pump in Well

ROUX ASSOCIATES INC

MO06619J04.29

APPENDIX W

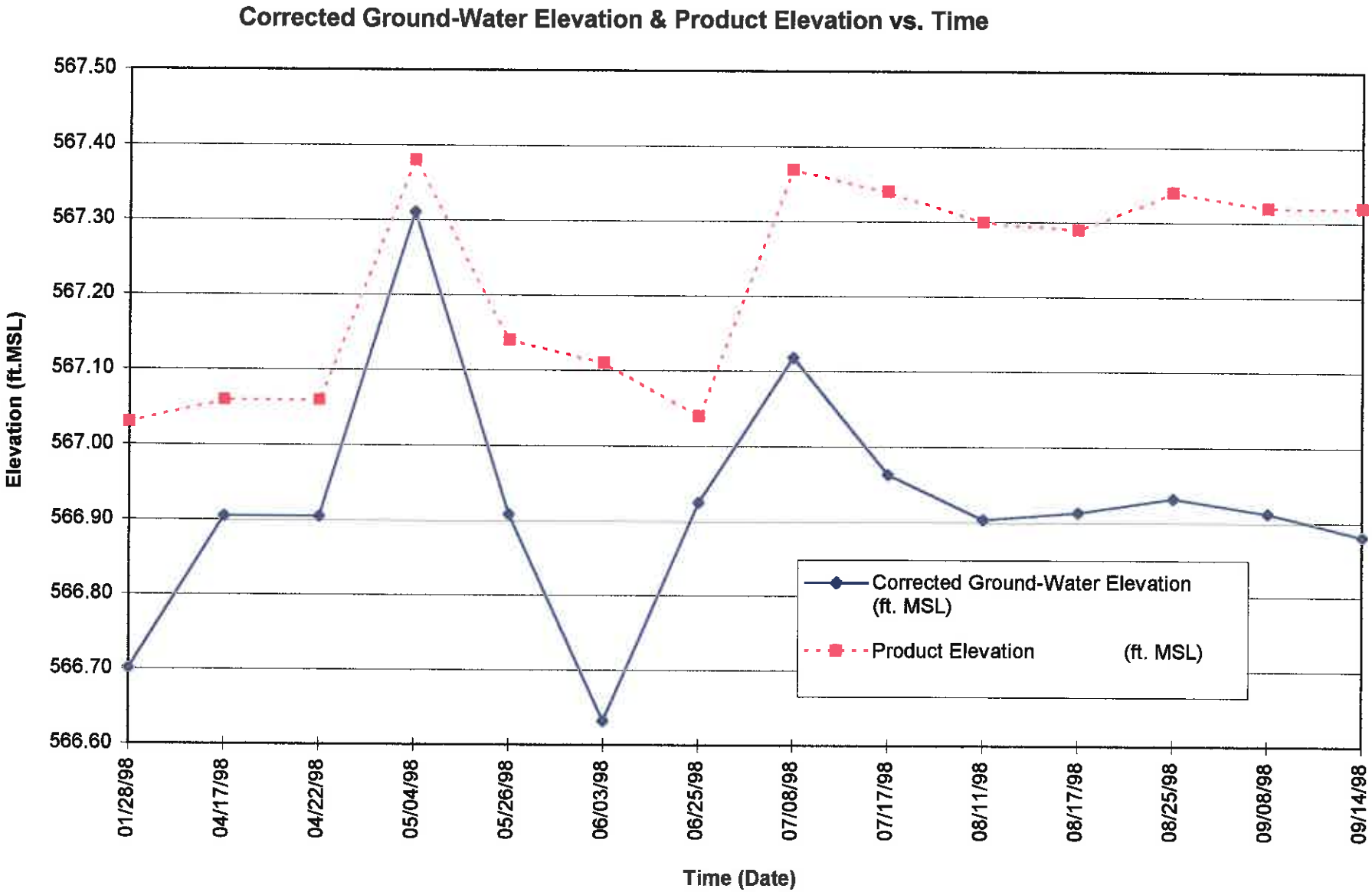
Solutia, Inc.
Nitro, West Virginia
LNAPL Well # B-3 (1)



ROUX ASSOCIATES INC

MO06619J04.29

Solutia, Inc.
Nitro, West Virginia
LNAPL Well # B-3 (2)



ROUX ASSOCIATES INC

MO06619J04.29

Summary of Ground-Water Analytical Data for LNAPL Well B-3
Solutia, Inc.
Nitro, West Virginia

Date	Depth to Water (ft. TOC)	Depth to Product (ft. TOC)	Product Thickness (feet)	Corrected Ground-Water Elevation (ft. MSL)	Product Elevation (ft. MSL)	Dissolved Oxygen (ppm)	pH (SU)	Iron (mg/l)	Manganese (mg/l)
09/15/95	29.76	27.80	1.96	566.91	567.34	--	--	--	--
07/16/96	30.36	28.16	2.20	566.50	566.98	--	--	--	--
10/07/96	--	--	--	--	--	--	--	--	--
07/10/97	--	--	--	--	--	--	--	--	--
10/28/97 (3)	29.95	27.86	2.09	566.82	567.28	--	--	--	--
11/03/97 (3)	29.88	27.85	2.03	566.84	567.29	--	--	--	--
11/20/97 (3)	29.81	27.81	2.00	566.89	567.33	--	--	--	--
12/16/97 (3)	--	--	--	--	--	--	--	--	--
01/28/98 (3)	29.60	28.11	1.49	566.70	567.03	--	--	--	--
03/02/98 (3)	27.70	ND	0.00	567.44	ND	--	--	--	--
03/09/98 (3)	28.55	ND	0.00	566.59	ND	--	--	--	--
03/14/98 (3)	28.01	ND	0.00	567.13	ND	--	--	--	--
03/30/98	27.88	ND	0.00	567.26	ND	--	--	--	--
04/08/98	28.15	ND	0.00	566.99	ND	--	--	--	--
04/17/98	28.78	28.08	0.70	566.91	567.06	--	--	--	--
04/22/98	28.78	28.08	0.70	566.91	567.06	--	--	--	--
05/04/98	28.07	27.76	0.31	567.31	567.38	--	--	--	--
05/26/98	29.05	28.00	1.05	566.91	567.14	--	--	--	--
06/03/98	30.20	28.03	2.17	566.63	567.11	--	--	--	--
06/25/98	28.62	28.10	0.52	566.93	567.04	--	--	--	--
07/08/98	28.91	27.77	1.14	567.12	567.37	--	--	--	--
07/17/98	29.51	27.80	1.71	566.96	567.34	--	--	--	--
08/11/98	29.64	27.84	1.80	566.90	567.30	--	--	--	--
08/17/98	29.56	27.85	1.71	566.91	567.29	--	--	--	--
08/25/98	29.65	27.80	1.85	566.93	567.34	--	--	--	--
09/08/98	29.67	27.82	1.85	566.91	567.32	--	--	--	--
09/14/98	29.81	27.82	1.99	566.88	567.32	--	--	--	--

Top of Casing Elev. = 595.14 (ft. MSL)

Abbreviations:

ft. TOC = Measured in feet from top of well casing
ft. MSL = Measured in feet above Mean Sea Level
ppm = parts per million
SU = Standard Units
mg/l = milligrams per liter

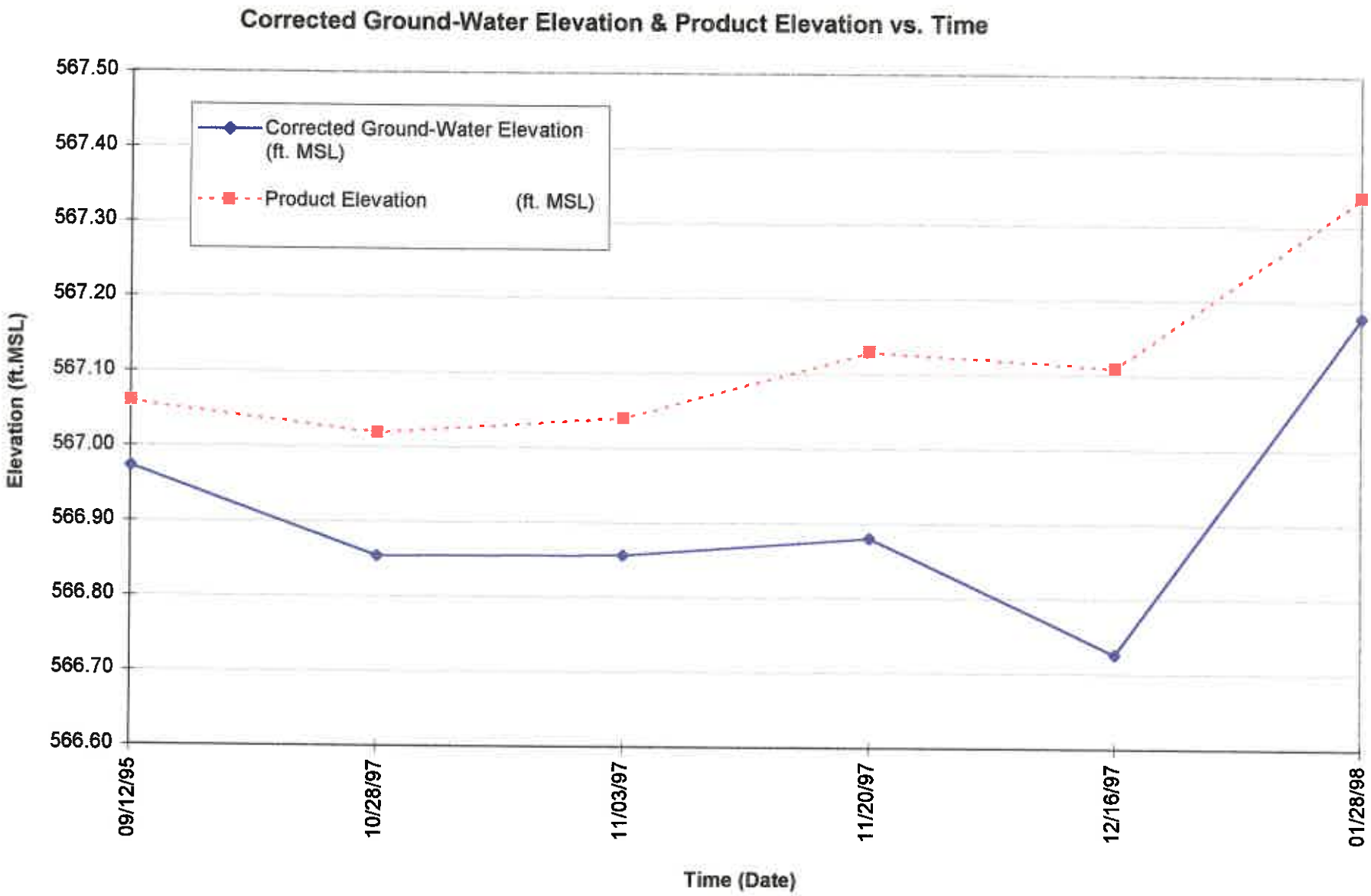
-- = Not Sampled
ND = Not Detected
(1) = Site Pro Pump Inoperative
(2) = Site Pro Pump in well
(3) = Ferret Passive Pump in Well

ROUX ASSOCIATES INC

MO06619J04.29

APPENDIX X

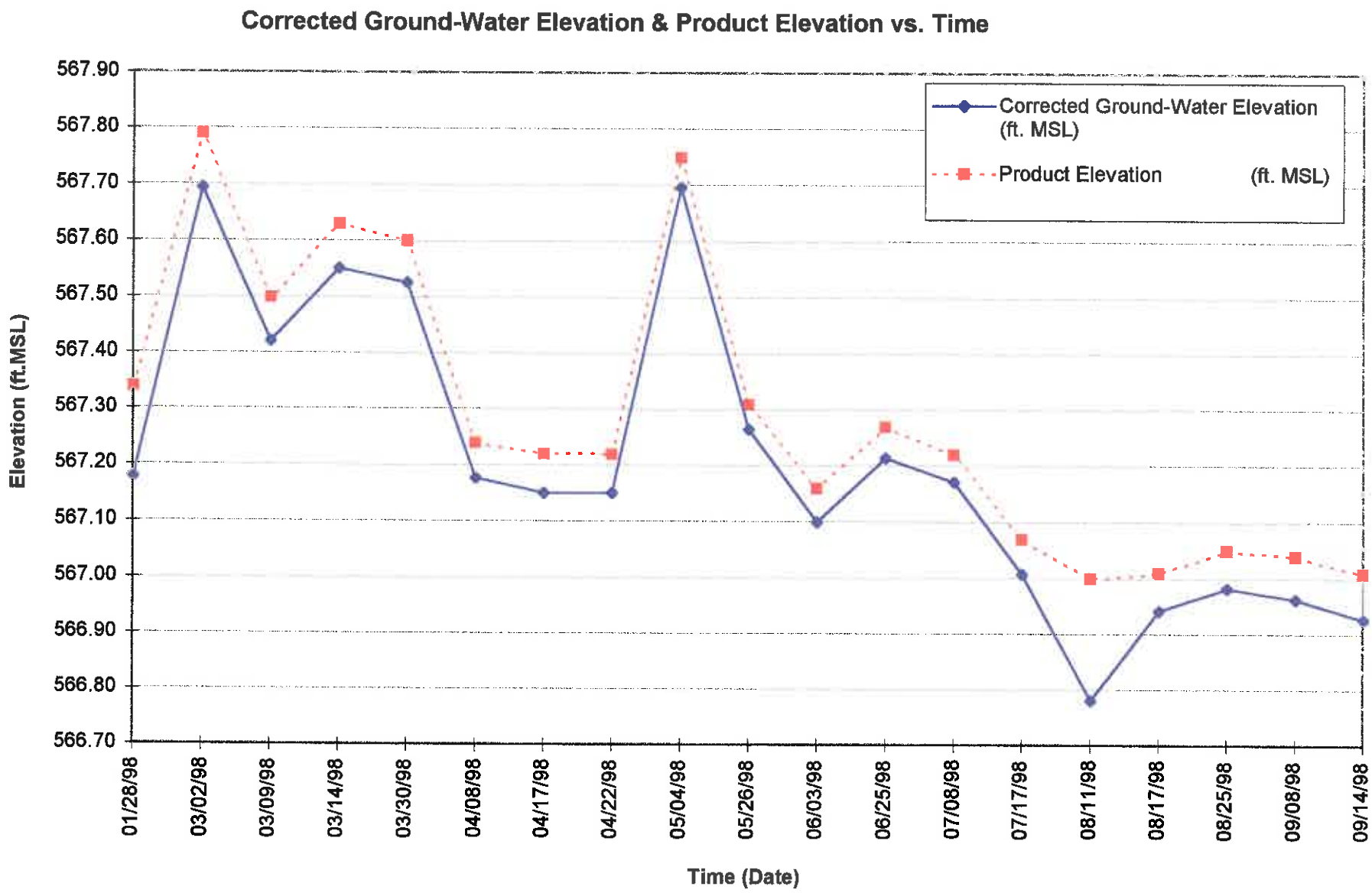
Solutia, Inc.
Nitro, West Virginia
LNAPL Well # B-4 (1)



ROUX ASSOCIATES INC

MO06619J04.29

Solutia, Inc.
Nitro, West Virginia
LNAPL Well # B-4 (2)



ROUX ASSOCIATES INC

MO06619J04.29

Summary of Ground-Water Analytical Data for LNAPL Well B-4
Solutia, Inc.
Nitro, West Virginia

Date	Depth to Water (ft. TOC)	Depth to Product (ft. TOC)	Product Thickness (feet)	Corrected Ground-Water Elevation (ft. MSL)	Product Elevation (ft. MSL)	Dissolved Oxygen (ppm)	pH (SU)	Iron (mg/l)	Manganese (mg/l)
09/12/95	27.15	26.76	0.39	566.97	567.06	--	--	--	--
07/16/96	27.18	ND	0.00	566.95	ND	--	--	--	--
10/07/96	--	--	--	--	--	--	--	--	--
07/10/97	--	--	--	--	--	--	--	--	--
10/28/97	27.55	26.80	0.75	566.86	567.02	--	--	--	--
11/03/97	27.61	26.78	0.83	566.86	567.04	--	--	--	--
11/20/97	27.82	26.69	1.13	566.88	567.13	--	--	--	--
12/16/97	28.45	26.71	1.74	566.73	567.11	--	--	--	--
01/28/98	27.21	26.48	0.73	567.18	567.34	--	--	--	--
03/02/98	26.46	26.03	0.43	567.70	567.79	--	--	--	--
03/09/98	26.67	26.32	0.35	567.42	567.50	--	--	--	--
03/14/98	26.54	26.19	0.35	567.55	567.63	--	--	--	--
03/30/98	26.55	26.22	0.33	567.53	567.60	--	--	--	--
04/08/98	26.86	26.58	0.28	567.18	567.24	--	--	--	--
04/17/98	26.91	26.60	0.31	567.15	567.22	--	--	--	--
04/22/98	26.91	26.60	0.31	567.15	567.22	--	--	--	--
05/04/98	26.31	26.07	0.24	567.70	567.75	--	--	--	--
05/26/98	26.71	26.51	0.20	567.27	567.31	--	--	--	--
06/03/98	26.93	26.66	0.27	567.10	567.16	--	--	--	--
06/25/98	26.80	26.55	0.25	567.22	567.27	--	--	--	--
07/08/98	26.82	26.60	0.22	567.17	567.22	--	--	--	--
07/17/98	27.03	26.75	0.28	567.01	567.07	--	--	--	--
08/11/98	27.81	26.82	0.99	566.78	567.00	--	--	--	--
08/17/98	27.11	26.81	0.30	566.94	567.01	--	--	--	--
08/25/98	27.07	26.77	0.30	566.98	567.05	--	--	--	--
09/08/98	27.12	26.78	0.34	566.97	567.04	--	--	--	--
09/14/98	27.18	26.81	0.37	566.93	567.01	--	--	--	--

Top of Casing Elev. = 593.82 (ft. MSL)

Abbreviations:

ft. TOC = Measured in feet from top of well casing
ft. MSL = Measured in feet above Mean Sea Level
ppm = parts per million
SU = Standard Units
mg/l = milligrams per liter

-- = Not Sampled
ND = Not Detected
(1) = Site Pro Pump Inoperative
(2) = Site Pro Pump in well
(3) = Ferret Passive Pump in Well

ROUX ASSOCIATES INC