Appendix F

Historical VOC Analytical Data for Groundwater

Training Area T-6, Parcel 183(6) and
Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

Table F1: Historical VOC Detections in Groundwater
Training Area T-6, Parcel 186(6) and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

VOCs (µg/L)	CC-510-MW01 1/8/2003 (SI) (residuum)	CC-510-MW02 1/8/2003 (SI) (residuum)	CC-510-MW03 1/9/2003 (SI) (residuum)	CC-510-MW04 1/7/2003 (SI) (residuum)	CWM-183-MW01 12/18/2001 (SI) (residuum)	CWM-183-MW01 1/21/2003 (RI) (residuum)	CWM-183-MW02 12/12/2001 (SI) (residuum)
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	0.97 J (J)	< 1	0.57 J (J)	< 1	< 1	< 1
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)
Acetone	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	13 (B)	< 10 (R)	< 10 (R)
Benzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	< 1	< 1	< 1	0.95 J (J)	< 1	< 1	< 1
Cis-1,2-Dichloroethene	< 1	9.1	< 1	0.4 J (J)	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	0.47 J (B)	0.54 J (B)	0.57 J (B)	0.56 J (B)	< 2	< 2	< 2
p-Isopropyltoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1 (UJ)
Tetrachloroethene	< 1	< 1	< 1	0.26 J (J)	< 1	< 1	< 1
Toluene	< 1	0.4 J (J)	0.65 J (J)	< 1	< 1	< 1	< 1
Trans-1,2-Dichloroethene	< 1	0.22 J (J)	< 1	< 1	< 1	< 1	< 1
Trichloroethene	< 1	17	< 1	29	< 1	< 1	< 1
Vinyl chloride	< 1	0.66 J (J)	< 1	< 1	< 1	< 1	< 1

Table F1: Historical VOC Detections in Groundwater
Training Area T-6, Parcel 186(6) and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

VOCs (µg/L)	CWM-183-MW02 1/22/2003 (RI) (residuum)	CWM-183-MW03 12/12/2001 (SI) (residuum)	CWM-183-MW03 1/27/2003 (RI) (residuum)	CWM-183-MW04 12/11/2001 (SI) (residuum)	CWM-183-MW04 1/24/2003 (RI) (residuum)	CWM-183-MW06 12/18/2001 (SI) (residuum)	CWM-183-MW06 1/29/2003 (RI) (residuum)
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	1.3	< 1	25	0.95 J (J)	17	50
1,1,2-Trichloroethane	< 1	0.3 J (J)	< 1	1.8	< 1	< 1	< 1
1,1-Dichloroethene	< 1	< 1	< 1	< 1	0.22 J (J)	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	0.8 J (J)	0.75 J (J)	< 1	< 1
2-Butanone (MEK)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)
Acetone	< 10 (R)	6200 (J)	< 10	6.3 J (J)	< 10 (UJ)	< 10 (R)	< 10 (R)
Benzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 1	< 1	< 1	< 1	< 1	1.5	2.1
Carbon tetrachloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	< 1	1.3	< 1	< 1	< 1	600 (J)	570
Cis-1,2-Dichloroethene	< 1	4.2	< 1	6	19	< 1	0.22 J (J)
Dibromochloromethane	< 1	< 1	< 1	< 1	< 1	0.24 J (J)	0.42 J (J)
Methylene chloride	< 2	0.52 JB (B)	0.69 J (B)	< 2 (UJ)	0.61 J (B)	0.43 J (B)	0.52 J (B)
p-Isopropyltoluene	< 1	1.9 (J)	< 1	0.42 J (J)	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	< 1	0.77 J (J)	< 1 (UJ)	0.43 J (J)	< 1	0.34 J (J)	1.1
Toluene	< 1	< 1	< 1	0.28 J (B)	< 1	< 1	< 1
Trans-1,2-Dichloroethene	< 1	0.67 J (J)	< 1	2.5	5.3	< 1	< 1
Trichloroethene	< 1	120	4.9	9	16	18	45
Vinyl chloride	< 1	< 1	< 1	0.82 J (J)	1.6	< 1	< 1

Table F1: Historical VOC Detections in Groundwater
Training Area T-6, Parcel 186(6) and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

VOCs (µg/L)	CWM-183-MW07 1/29/2003 (RI) (residuum)	CWM-183-MW08 12/13/2001 (SI) (residuum)	CWM-183-MW08 1/23/2003 (RI) (residuum)	CWM-183-MW09 1/28/2003 (RI) (residuum)	CWM-183-MW10 12/17/2001 (SI) (residuum)	CWM-183-MW10 1/22/2003 (RI) (residuum)	CWM-183-MW12 2/6/2003 (RI) (residuum)
1,1,1,2-Tetrachloroethane	2.2	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	8600	22	75	460	< 1	< 1	3.2
1,1,2-Trichloroethane	64	0.73 J (J)	0.66 J (J)	0.8 J (J)	< 1	< 1	< 1
1,1-Dichloroethene	1.3	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	0.49 J (J)	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	14 (J)
Acetone	< 10 (R)	< 10 (R)	< 10 (R)	< 10	13000 (J)	< 10	31 (J)
Benzene	0.58 J (J)	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1.1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	0.85 J (J)	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	140	1.8 (B)	1.8	1.8	2.3 (B)	< 1	2.9
Cis-1,2-Dichloroethene	180	7.2	5.2	1.3	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	2.7 (B)	0.35 J (B)	< 2	0.56 J (B)	0.38 J (B)	0.54 J (B)	0.51 J (B)
p-Isopropyltoluene	< 1	< 1	< 1	< 1	5.9	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	57	2.9	2.3	4.3 (J)	< 1	< 1	< 1
Toluene	0.25 J (B)	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,2-Dichloroethene	42	0.24 J (J)	0.59 J (J)	0.24 J (J)	< 1	< 1	< 1
Trichloroethene	5500	220	150	280	0.77 J (J)	0.41 J (J)	2.3
Vinyl chloride	1.2	< 1	< 1	< 1	< 1	< 1	< 1

Table F1: Historical VOC Detections in Groundwater
Training Area T-6, Parcel 186(6) and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

VOCs (µg/L)	CWM-183-MW14 1/30/2003 (RI) (residuum)	CWM-183-MW15 3/4/2003 (RI) (residuum)	CWM-183-MW18 2/27/2003 (RI) (residuum)	CWM-183-MW21 2/10/2003 (RI) (residuum)	CWM-183-MW23 2/5/2003 (RI) (residuum)	CWM-183-MW24 2/3/2003 (RI) (residuum)	CWM-183-MW11 2/14/2003 (RI) (bedrock)
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	5	< 1	< 1	4.8	740	5	11
1,1,2-Trichloroethane	< 1	< 1	< 1	1.5	0.35 J (J)	< 1	0.75 J (J)
1,1-Dichloroethene	< 1	< 1	< 1	1.2	< 1	< 1	0.24 J (J)
1,2-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)
Acetone	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)
Benzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1 (UJ)
Chlorobenzene	< 1	< 1	< 1	4.5	< 1	< 1	< 1
Chloroform	1.2	2.6	< 1	0.49 J (J)	1.4	< 1	1.3
Cis-1,2-Dichloroethene	0.66 J (J)	0.23 J (J)	< 1	69	3.7	< 1	5.4
Dibromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	0.49 J (B)	< 2	0.48 J (B)	0.53 J (B)	0.44 J (B)	0.41 J (B)	< 2
p-Isopropyltoluene	< 1	< 1 (UJ)	< 1	< 1	< 1	< 1	< 1 (UJ)
sec-Butylbenzene	< 1	< 1	< 1	0.37 J (J)	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	0.38 J (J)	< 1	< 1	3.3	7.2	< 1	27
Toluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,2-Dichloroethene	< 1	< 1	< 1	8.1	0.57 J (J)	< 1	0.3 J (J)
Trichloroethene	40	25	< 1	410	270	2.2	290
Vinyl chloride	< 1	< 1	< 1	0.58 J (J)	< 1	< 1	< 1

Table F1: Historical VOC Detections in Groundwater
Training Area T-6, Parcel 186(6) and Cane Creek Training Area, Parcel 510(7)
McClellan, Anniston, Alabama

VOCs (µg/L)	CWM-183-MW13 2/26/2003 (RI) (bedrock)	CWM-183-MW16 3/3/2003 (RI) (bedrock)	CWM-183-MW17 2/27/2003 (RI) (bedrock)	CWM-183-MW19 3/5/2003 (RI) (bedrock)	CWM-183-MW20 3/7/2003 (RI) (bedrock)	CWM-183-MW22 2/12/2003 (RI) (bedrock)
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1	0.73 J (J)	< 1
1,1,2,2-Tetrachloroethane	47	< 1	< 1	< 1	18	42 J (J)
1,1,2-Trichloroethane	0.31 E (J)	0.6 J (J)	< 1	< 1	2.4	5.5
1,1-Dichloroethene	1.9	0.42 J (J)	< 1	< 1	0.85 J (J)	1.7
1,2-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone (MEK)	50 (J)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)
Acetone	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)	< 10 (R)
Benzene	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	0.35 J (J)	< 1	< 1 (UJ)	< 1 (UJ)	< 1 (UJ)
Chlorobenzene	< 1	< 1	< 1	< 1	< 1	15
Chloroform	0.96 J (J)	9.6	0.68 J (J)	< 1	4.4	0.75 J (J)
Cis-1,2-Dichloroethene	10	1.6 (J)	1.2	< 1 (UJ)	8.5	77
Dibromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	0.49 J (B)	< 2	0.49 J (B)	< 2	< 2	< 2
p-Isopropyltoluene	< 1	< 1 (UJ)	< 1	< 1 (UJ)	< 1	< 1 (UJ)
sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	0.4 J (J)
tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	0.33 J (J)
Tetrachloroethene	5.1	0.92 J (J)	0.32 J (J)	< 1	28	8.7
Toluene	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,2-Dichloroethene	4.6	< 1	0.44 J (J)	< 1	1.2	8.9
Trichloroethene	390	180	100	< 1	3700	1100 (J)
Vinyl chloride	< 1	< 1	< 1	< 1	< 1	0.88 J (J)

Notes:

< = The result was not detected at the concentration shown.

µg/L = microgram per liter

VOC = Volatile organic compound

Lab Flag:

B = Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero).

J = Analyte was positively identified; reported value is an estimated concentration.

Source: Shaw, 2004

Validation Flag:

(B) = Analyte detected in associated laboratory or field blank at concentration greater than reporting limit (and greater than zero).

(J) = The analyte was positively identified; the reported value is the estimated concentration of the constituent detected in the sample.

(R) = Rejected data. Unusable result; analyte may or may not be present in the sample.

(UJ) = Analyte was analyzed for but was not detected; the reported quantitation limit is estimated.

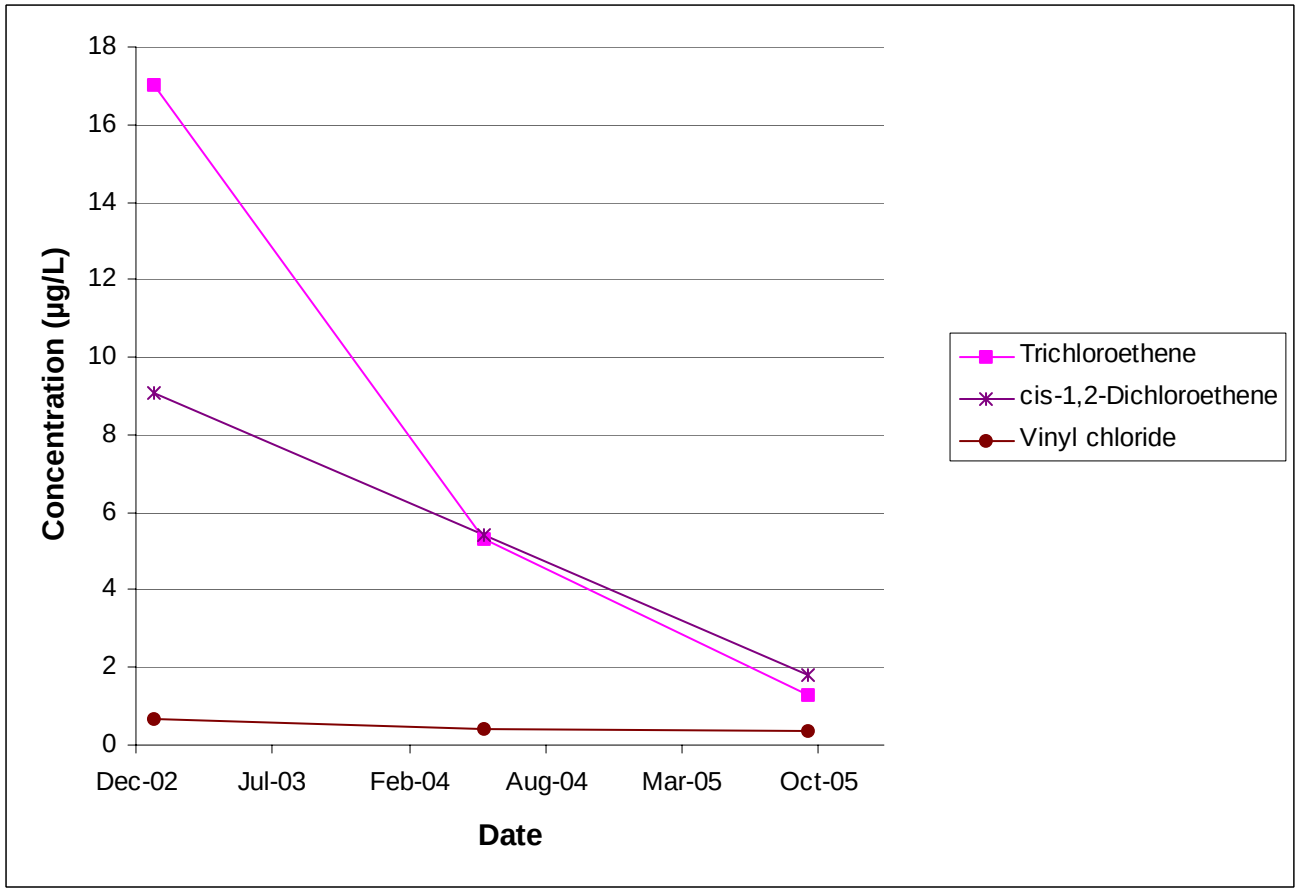

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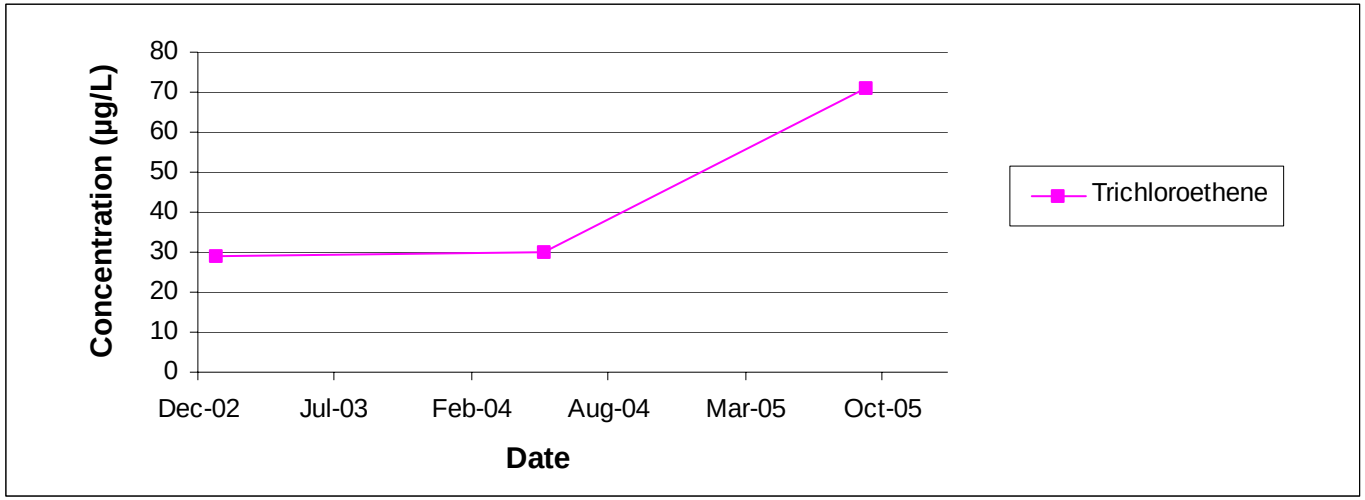
Figure F1: Volatile Concentrations in Residuum Well CC-510-MW02 Training Area T-6, Parcel 183(6) McClellan, Anniston, Alabama



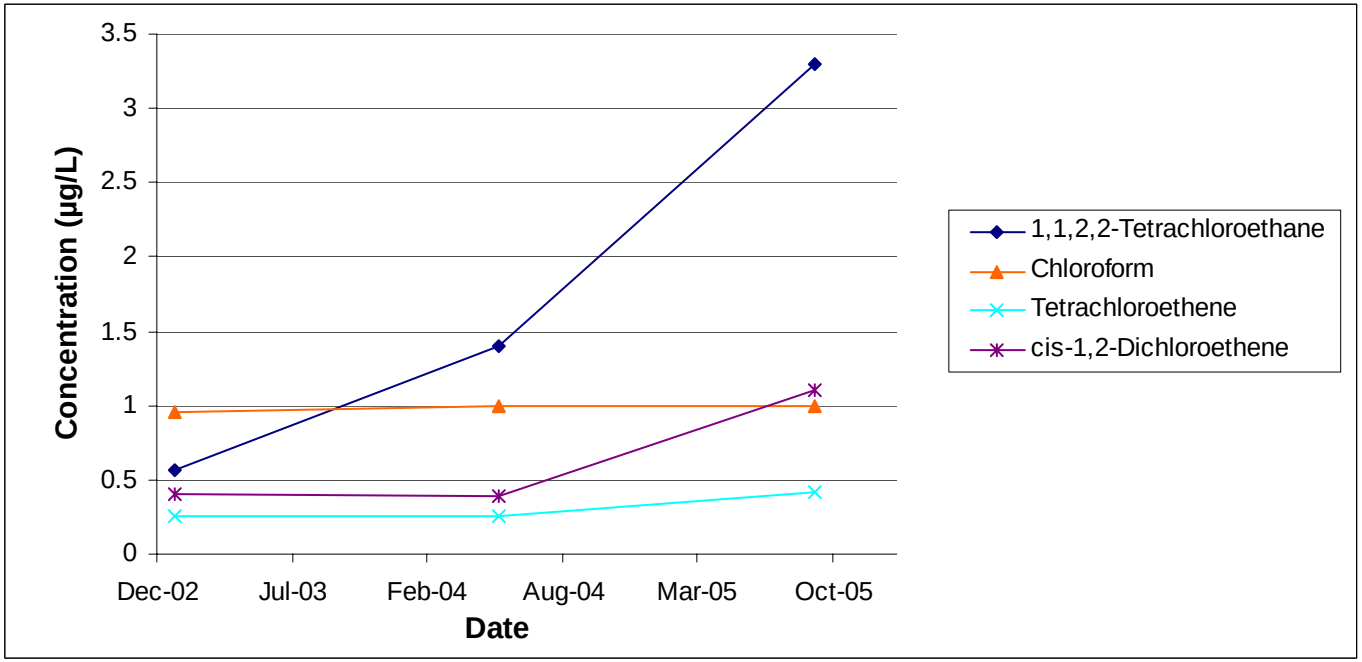


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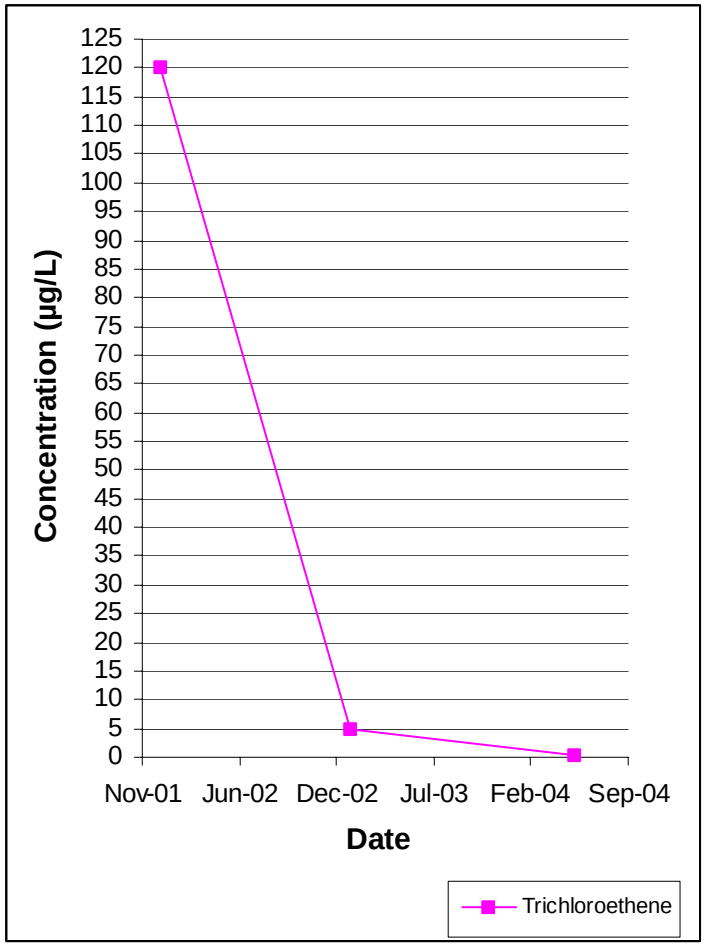
Figure F2: Volatile Concentrations in Residuum Well CC-510-MW04 Training Area T-6, Parcel 183(6) McClellan, Anniston, Alabama



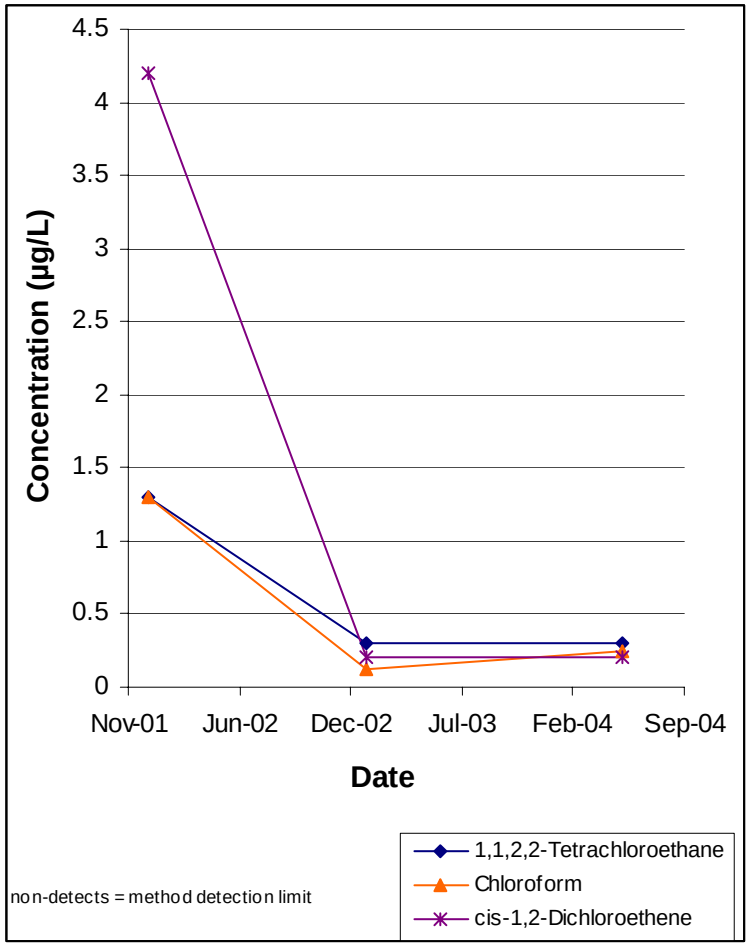


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Figure F3: Volatile Concentrations in Residuum Well CWM-183-MW03 Training Area T-6, Parcel 183(6) McClellan, Anniston, Alabama

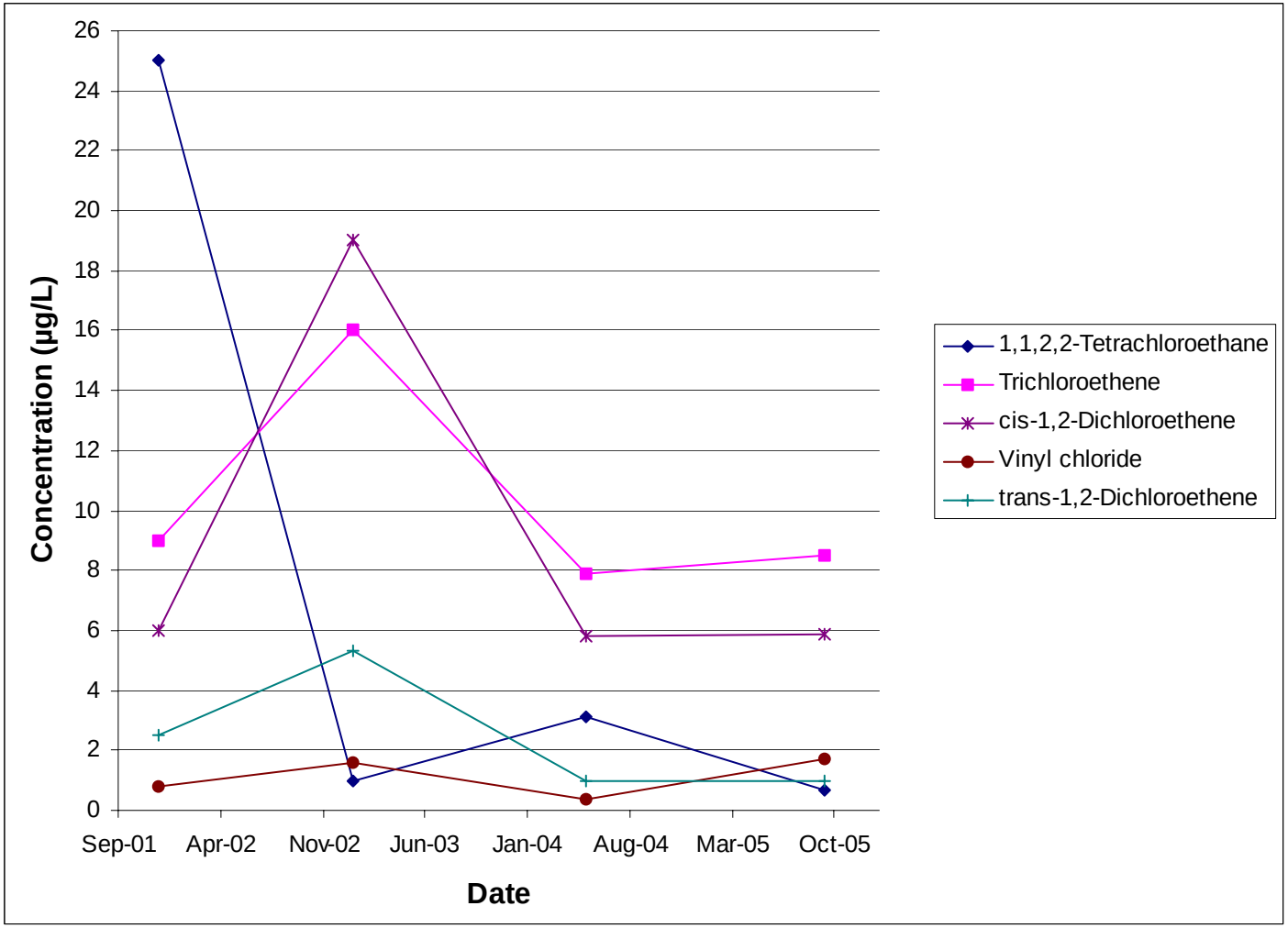

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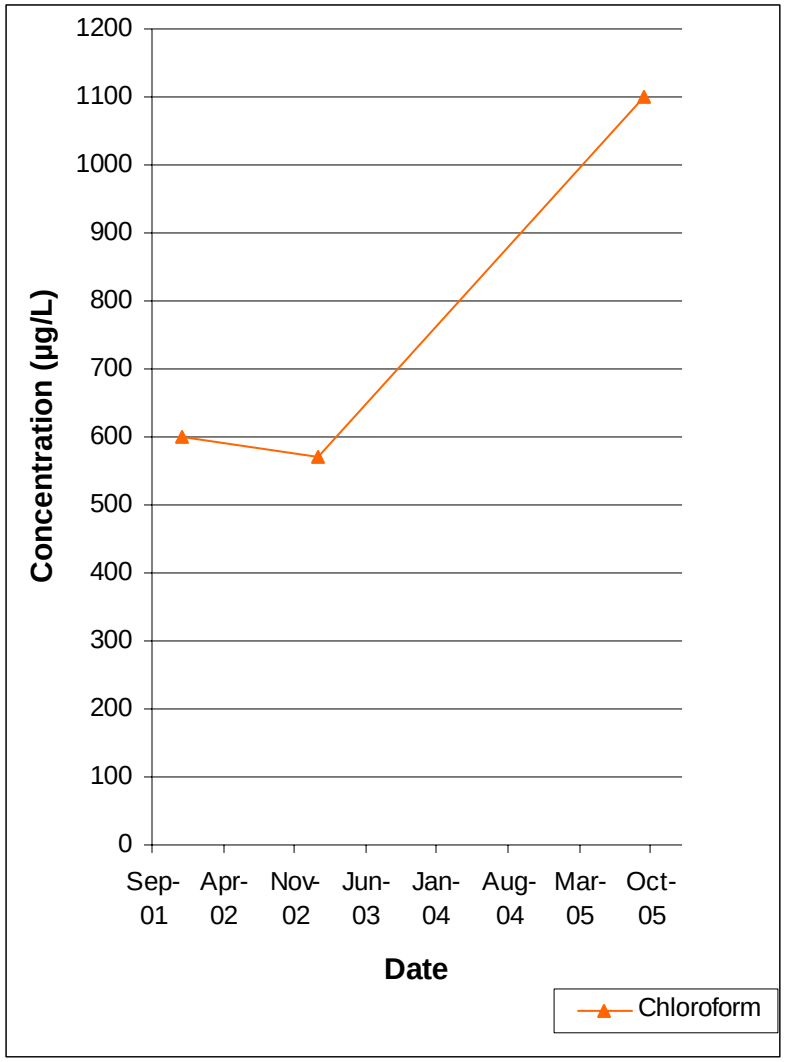
Figure F4: Volatile Concentrations in Residuum Well CWM-183-MW04 Training Area T-6, Parcel 183(6) McClellan, Anniston, Alabama



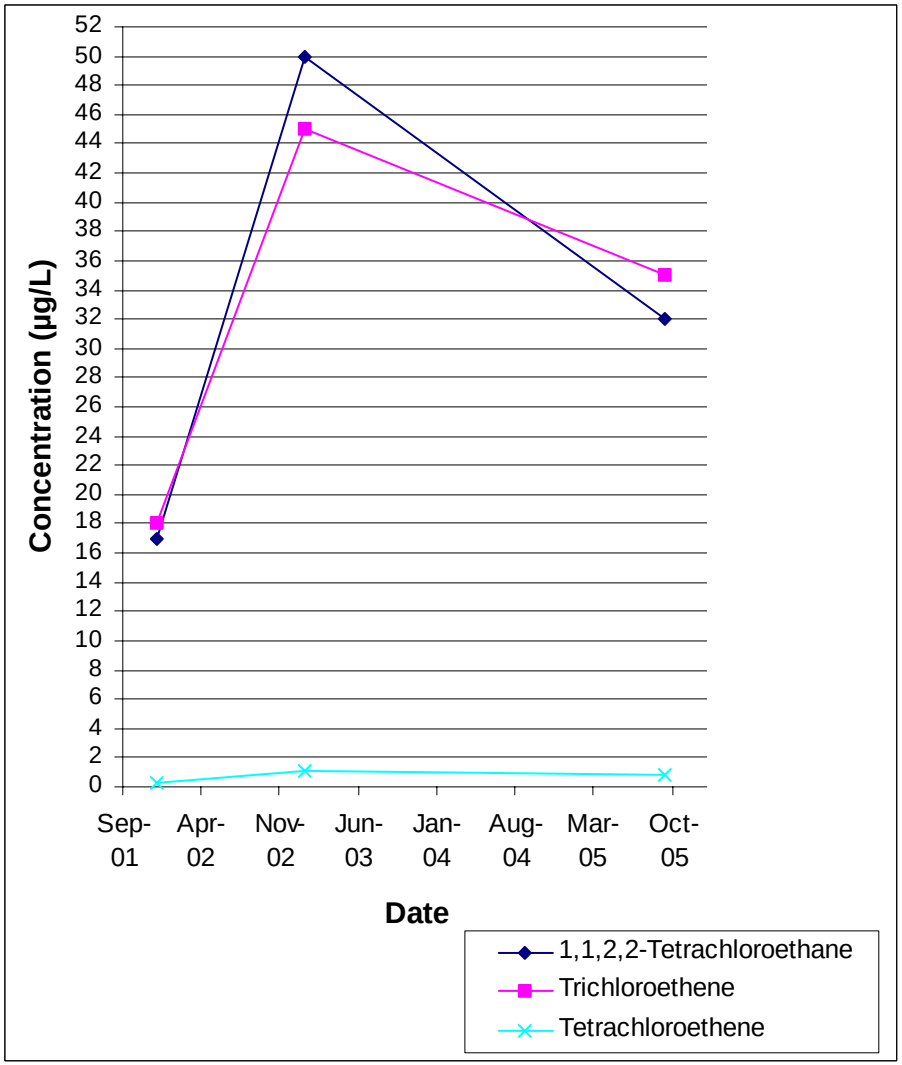


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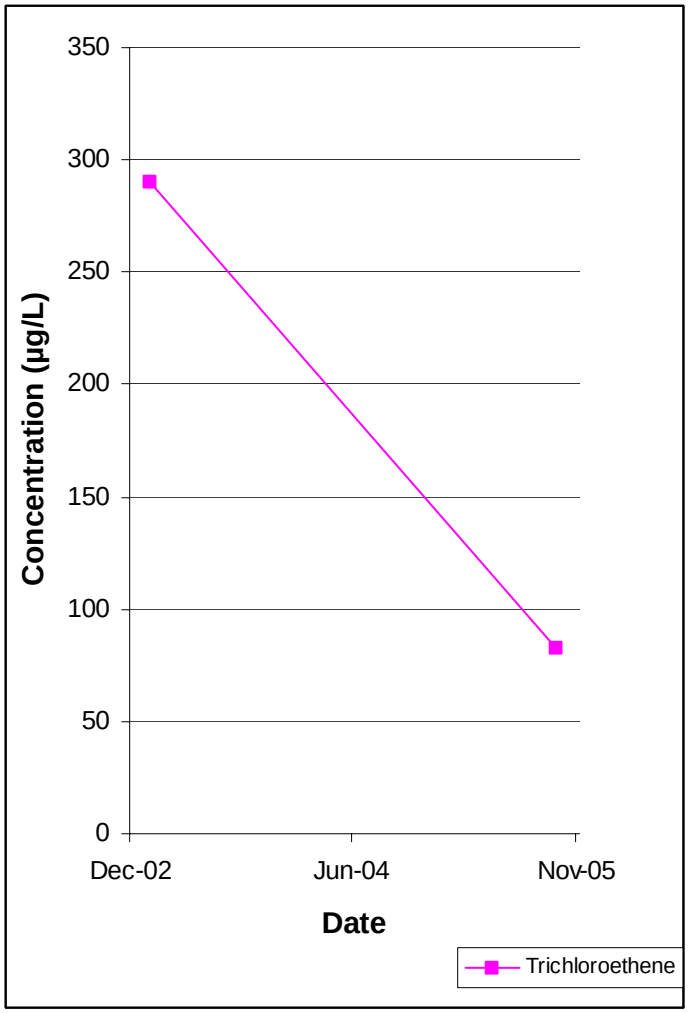
Figure F5: Volatile Concentrations in Residuum Well CWM-183-MW06 Training Area T-6, Parcel 183(6) McClellan, Anniston, Alabama



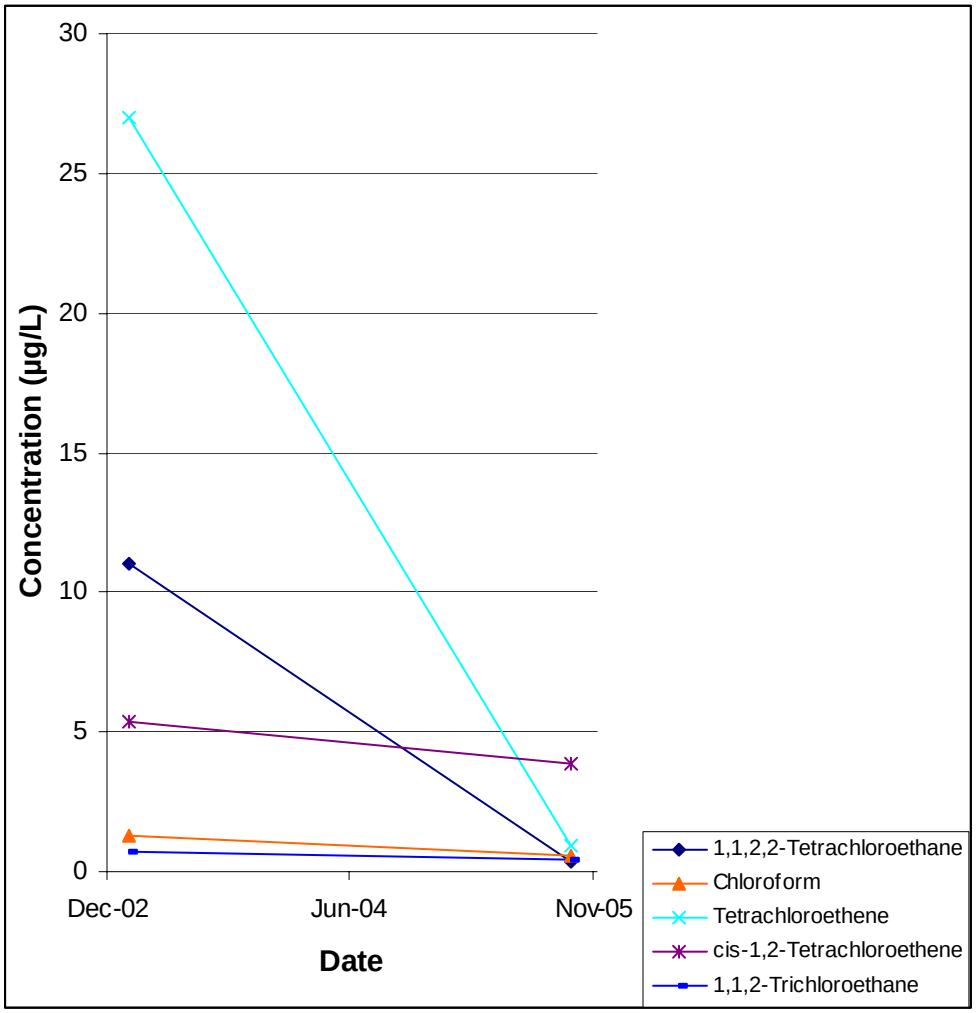


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Figure F6: Volatile Concentrations in Bedrock Well CWM-183-MW11 Training Area T-6, Parcel 183(6) McClellan, Anniston, Alabama

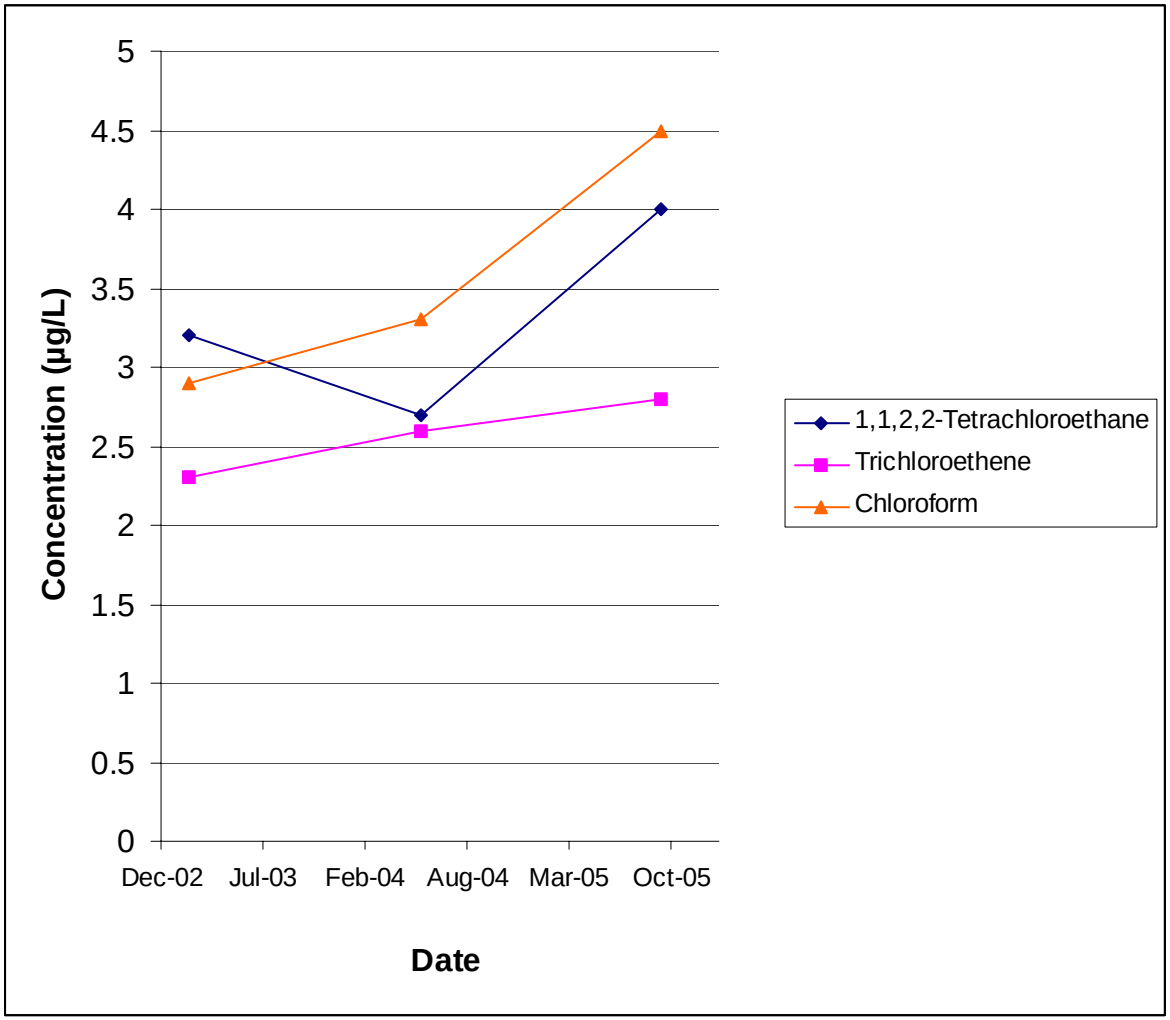

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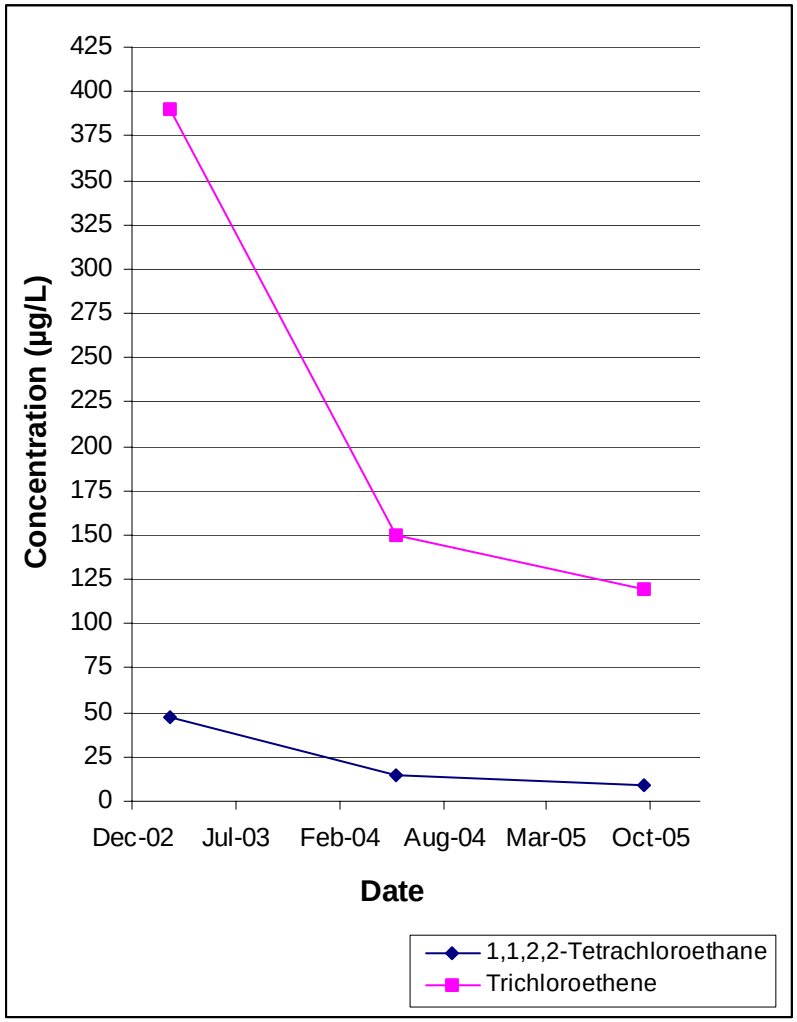
Figure F7: Volatile Concentrations in Residuum Well CWM-183-MW12 Training Area T-6, Parcel 183(6) McClellan, Anniston, Alabama



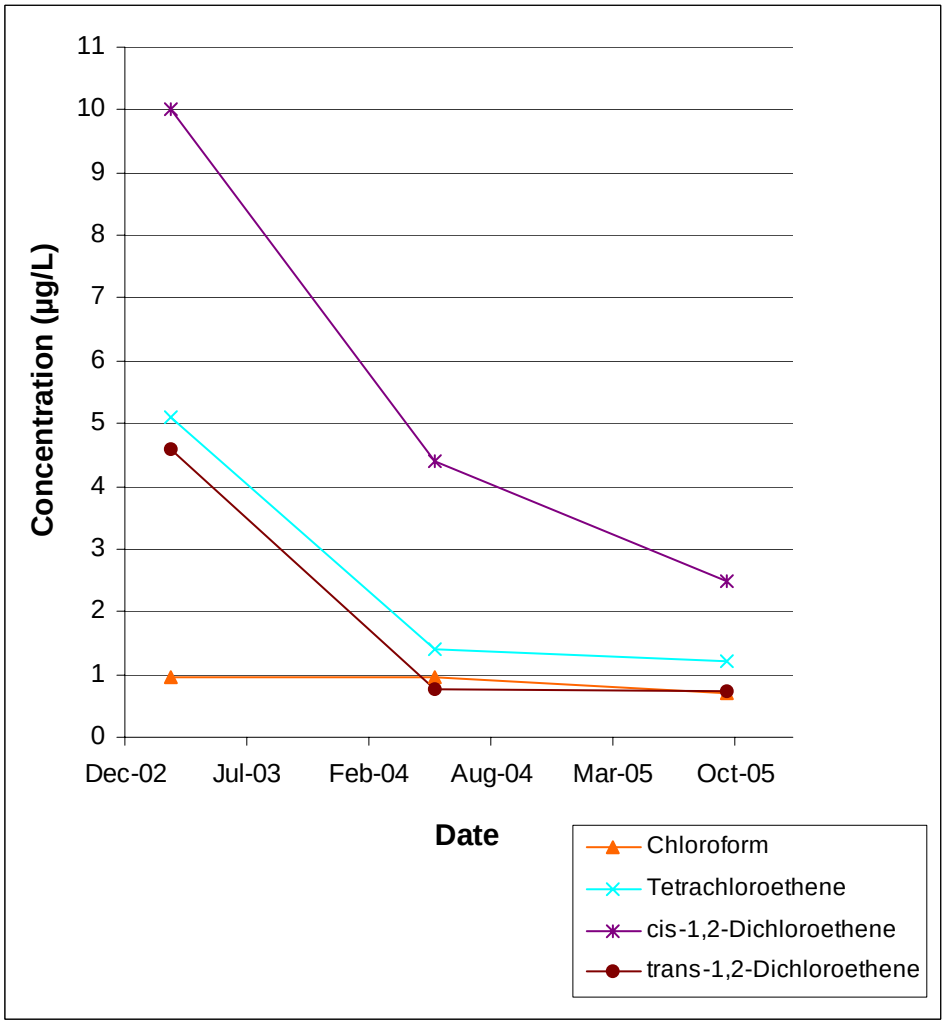


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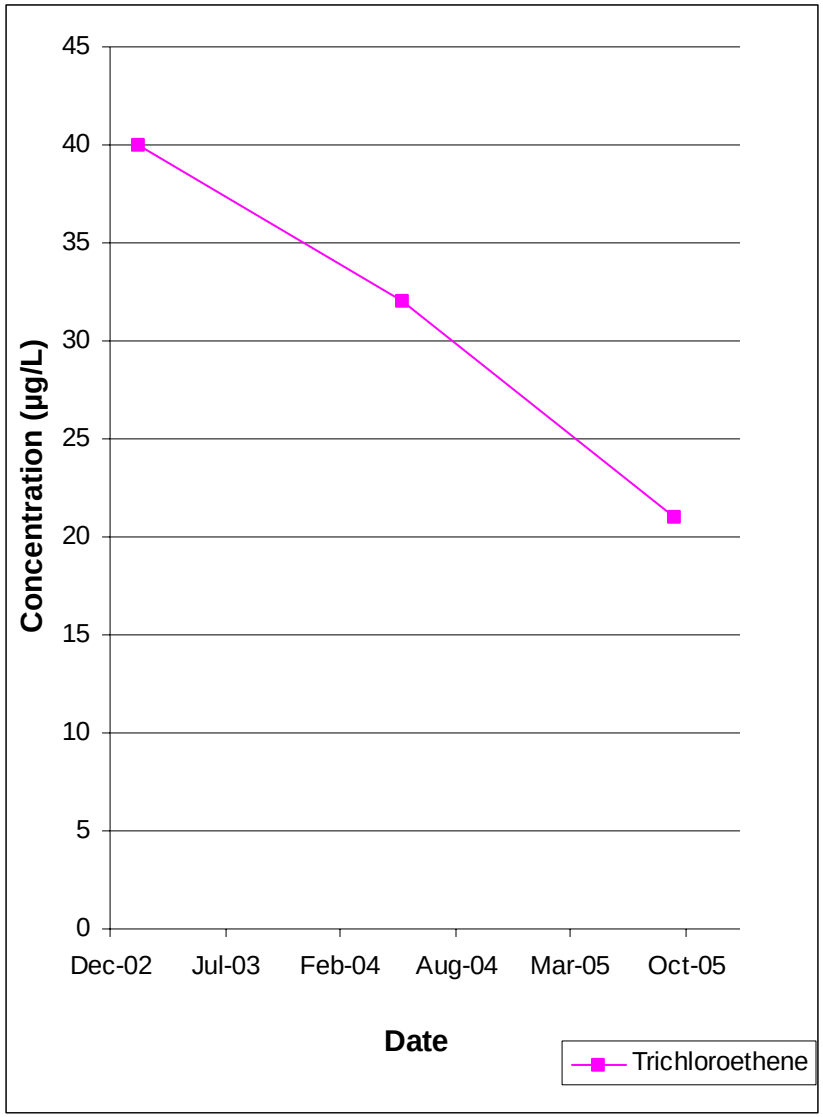
Figure F8: Volatile Concentrations in Bedrock Well CWM-183-MW13 Training Area T-6, Parcel 183(6) McClellan, Anniston, Alabama



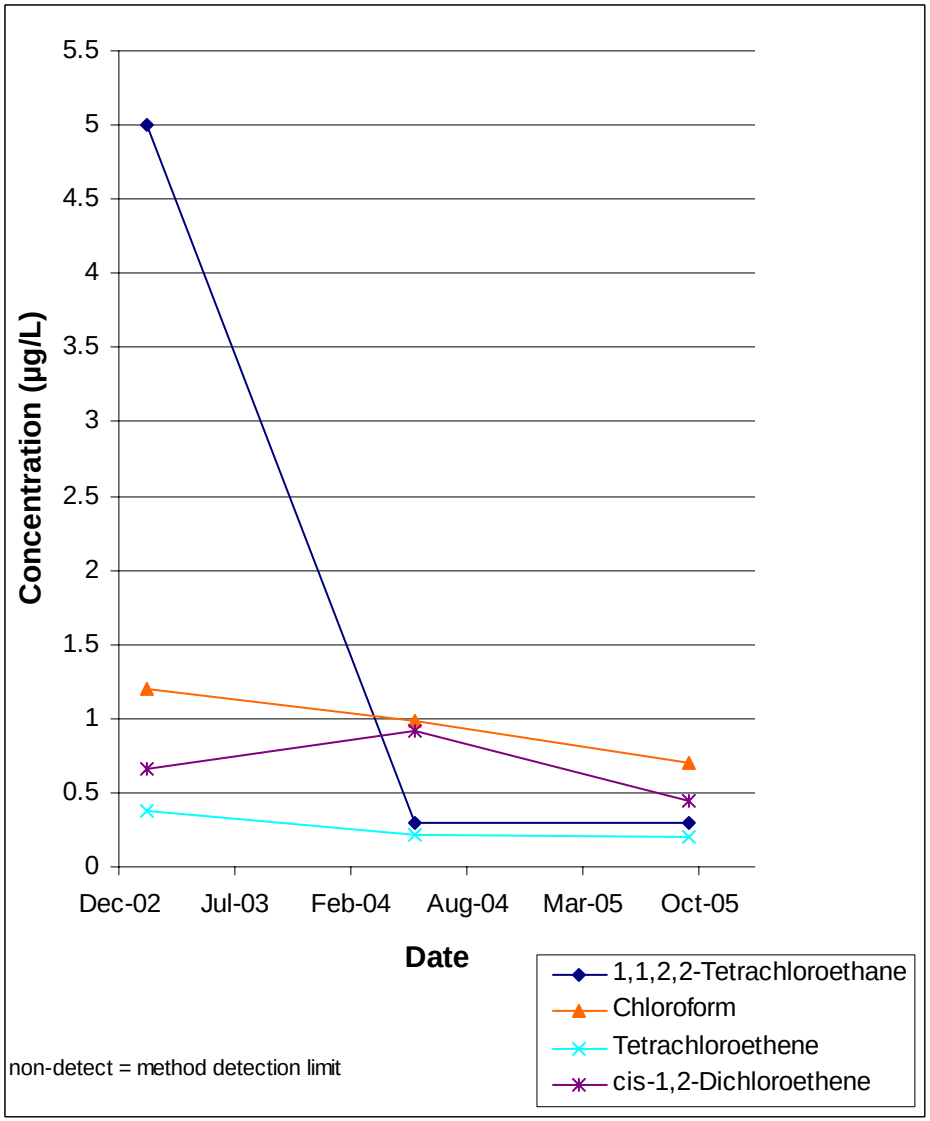


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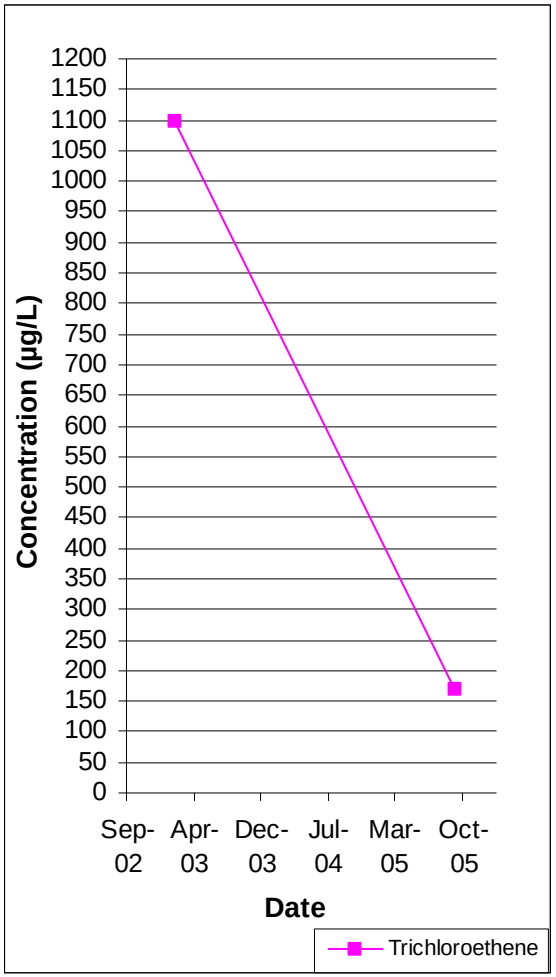
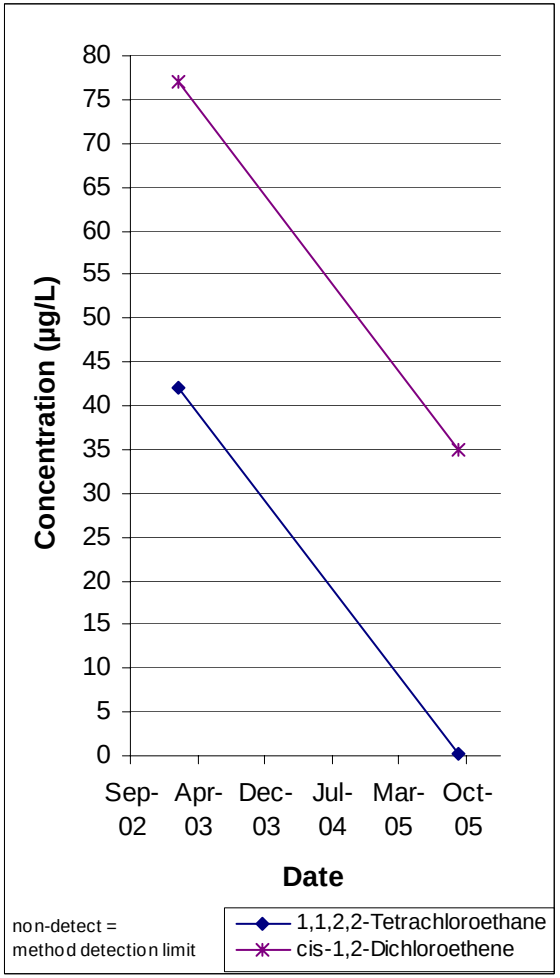
Figure F9: Volatile Concentrations in Residuum Well CWM-183-MW14 Training Area T-6, Parcel 183(6) McClellan, Anniston, Alabama





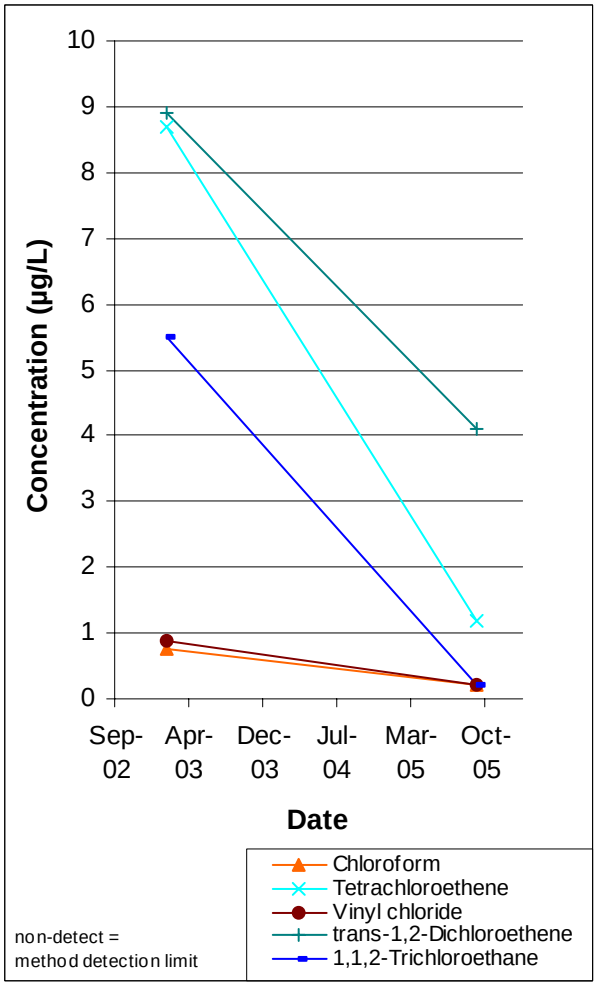


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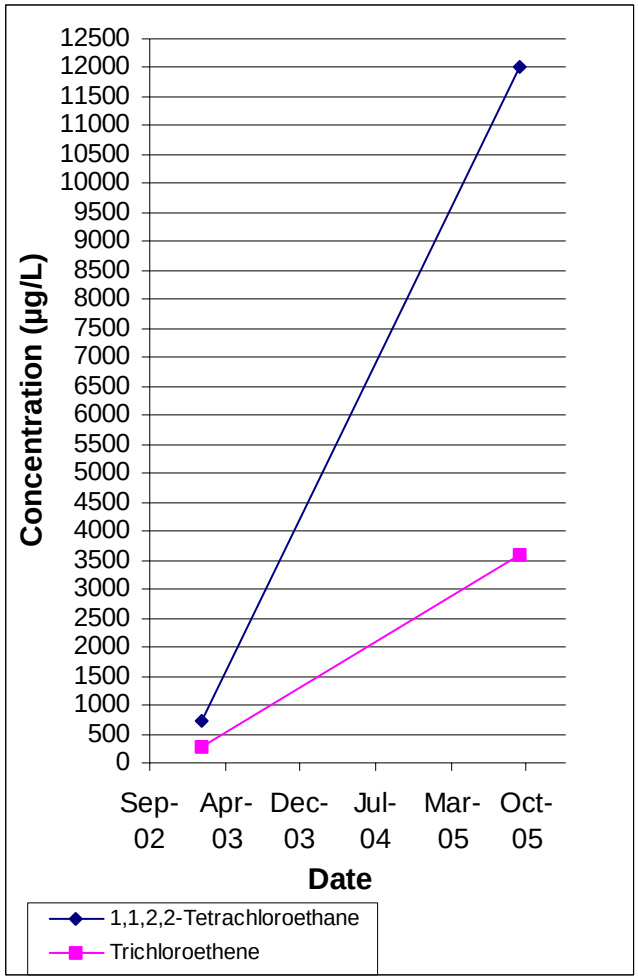
Figure F10: Volatile Concentrations in Bedrock Well CWM-183-MW22 Training Area T-6, Parcel 183(6) McClellan, Anniston, Alabama



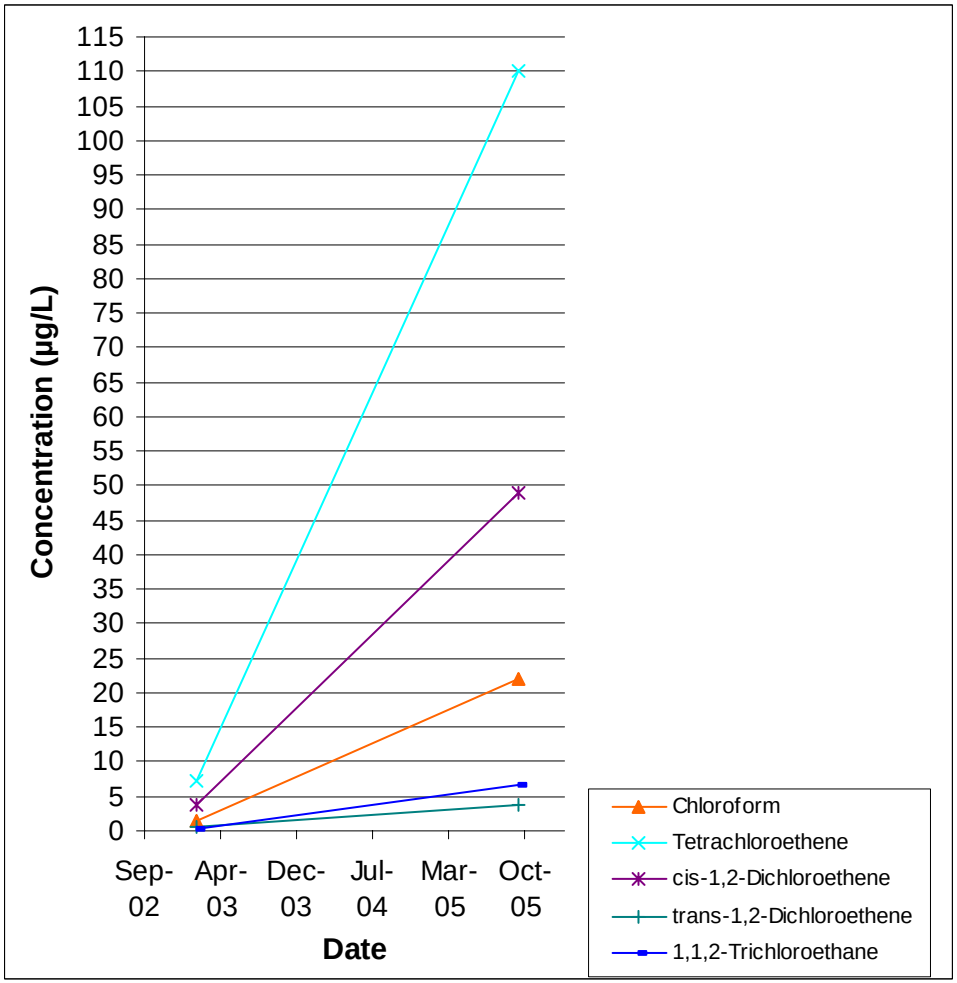


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Figure F11: Volatile Concentrations in Residuum Well CWM-183-MW23 Training Area T-6, Parcel 183(6) McClellan, Anniston, Alabama