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TECHNICAL MEMORANDUM RESULTS OF OCTOBER 2001 QUARTERLY GROUNDWATER
MONITORING AT RICHARDS GEBUR AIR FORCE BASE KANSAS CITY MO
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CH2M HILL

TECHNICAL MEMORANDUM

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Results of October 2001 Quarterly Groundwater Monitoring at Richards-Gebaur Air Force Base

PREPARED FOR: Air Force Base Realignment and Closure (BRAC) Cleanup Team (BCT)
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This technical memorandum summarizes the analytical results for the quarterly groundwater monitoring (QGM) conducted between October 1 and October 9, 2001 at Richards-Gebaur Air Force Base (AFB), Kansas City, Missouri. The October 2001 results are compared with the findings from the five previous groundwater monitoring events to better understand the nature and extent of the groundwater contamination at the Base.

Introduction

The QGM program was established at Richards-Gebaur AFB based on the groundwater sampling results of the 1999 Basewide Remedial Investigation (RI) and 2000 RI Addendum. Five groundwater-contaminated sites were identified during the RI investigation and were selected for the original QGM. The primary contaminants at the sites are chlorinated volatile organic compounds (CVOCs).

In 2001, an additional site SS 012, formerly referred to as Building 105, was investigated to assess the presence of volatile organic compounds (VOCs) in the site groundwater. Twelve monitoring wells were installed in a series of lateral step-outs between February and April 2001 to delineate the groundwater contamination.

Consequently, the October 2001 QGM comprised six sites where concentrations of VOCs in groundwater are known to exceed the conservative Tier 1 Screening Levels that were set forth in the RI (generally equivalent to federal maximum contaminant levels).

The six sites are:

- SS 003, Oil Saturated Area
- SS 006, Hazardous Material Storage Area
- SS 009, Fire Valve Area
- SS 012, Communications Facility at Building 105 (formerly referred to as Building 105)
- ST 005, POL Yard
- ST 011, UST 620 A (formerly referred to as CS 004)

From the six sites, 75 monitoring wells were selected for the October 2001 QGM program. Results from the first QGM were discussed in the *final RI Report* (CH2M HILL, 2001). The October sampling represents the six consecutive quarter of groundwater monitoring at the Base. The October QGM results are presented below. Subsequent groundwater monitoring events

are scheduled for January 2002. CH2M HILL is currently under contract of conducting four additional QGMs. The monitoring well network for the six sites is summarized in Table 1.

The objectives of the quarterly groundwater monitoring at Richards-Gebaur AFB are to:

- assess whether the existing monitoring well network sufficiently delineates the groundwater contamination
- evaluate temporal trends of chemicals of concern (COCs) in groundwater.

Methodology

Field Procedures

Groundwater samples were collected using standard bailing procedures following the purging of stagnant water from the monitoring wells. Detailed field procedure information is provided in the *October 1999 Basewide Remedial Investigation / Feasibility Study (RI/FS) Work Plan and the April 2000 Basewide RI Work Plan Addendum*.

Laboratory Analyses

Groundwater samples were analyzed for VOCs via USEPA Method SW8260B. The analytical work was performed by CH2M HILL's Applied Science Laboratory (ASL), Corvallis, Oregon. The analytical results were reported on a standard 21-day turnaround time. Data were validated per methods outlined in the October 1999 *Richards-Gebaur Air Force Base (AFB) Basewide RI/FS Work Plan* (CH2M HILL, 1999).

Natural attenuation parameters were not evaluated during this QGM.

Results

The following paragraphs summarize the VOC analytical results from the October 2001 QGM on a site-by-site basis. Detections of VOCs in groundwater at the six sites are shown in Table 2. The October results are compared against corresponding Tier I Screening Levels established for the Basewide RI project. Compounds exceeding Tier I Screening Levels in groundwater are summarized in Table 3. The October 2001 QGM results are also compared with the data from the five previous groundwater monitoring events to evaluate the temporal trends of COC concentrations in groundwater.

SS 003 – Oil Saturated Area

Eight groundwater wells at SS 003 were sampled during the October 2001 QGM (see Table 1). The results indicated that TCE was present above its Tier I Screening Level of 5 ppb in three wells, consistent with the previous QGM results. No other VOCs were detected at concentrations above applicable screening levels.

- *Trichloroethene (TCE)*

TCE was detected at concentrations exceeding its Tier 1 Screening Level in three wells: MW-004, MW-006, and MW-007 (see Figure 1). In general, TCE concentrations are consistent at the site. Temporal trends of TCE in groundwater at SS 003 from June 2000 to October 2001 are presented in Figure 2.

- *Cis-1,2-dichloroethene (DCE)*

The chemical was detected, but at concentrations below its Tier 1 Screening Level of 70 ppb.

- *Vinyl chloride*

The chemical was detected, but at concentrations below its Tier 1 Screening Level of 2 ppb.

SS 006 – Hazardous Material Storage Area

Fourteen groundwater wells at SS 006 and one well from the adjacent site (AOC 001) were sampled in October 2001 (see Table 1). Three VOCs – TCE, cis-1,2-DCE, and vinyl chloride – were detected at concentrations above their corresponding Tier I Screening Levels. The locations of wells at SS 006 with VOC concentrations exceeding applicable Tier 1 Screening Levels are presented in Figure 3. Temporal trends of COC concentrations for select wells at SS 006 are presented in Figure 4.

- *TCE*

TCE was detected above its Tier I Screening Level in ten wells: MW-005, MW-009, MW-010, MW-011, MW-012, MW-013, MW-014, MW-015, MW-018, and MW-020. Concentrations are generally consistent with previous QGM data. Concentrations ranged from 16.9 ppb to 930 ppb, with the highest concentration found in well MW-020. Well MW-20 is located about 80 feet east of Facility 931, which was used for liquid oxygen storage in the past.

- *Cis-1,2-DCE*

Cis-1,2-DCE was detected at concentrations exceeding its Tier1 Screening Level of 70 ppb in four wells: MW-010, MW-011, MW-012, and MW-020. The concentration of cis-1,2-DCE ranged from 73.7 ppb at MW-011 to 132 ppb at MW-020.

- *Vinyl chloride*

Vinyl chloride was detected in three wells (MW-005, MW-010, and MW-020) at concentrations above its Tier I Screening Level of 2 ppb. The concentrations of vinyl chloride ranged from 3.2 ppb at MW-010 to 18.1 ppb at MW-020.

SS 009 – Fire Valve Area

Eight groundwater wells were sampled at SS 009 in October 2001 (see Table 1). The QGM results show that five VOCs were detected in well MW-003 and one VOC in well MW-009 at concentrations exceeding Tier 1 Screening Levels (Figure 5), and that the remaining wells were free of COCs at concentrations above Tier 1 Screening Levels. Results from the October 2001 QGM were consistent with those from the previous five QGMs. Temporal trends of COC concentrations in groundwater at SS 009 are presented in Figure 6.

- *TCE*

TCE was detected in one shallow well, MW-003, exceeding its Tier I Screening Level of 5 ppb. The TCE concentration in well MW-003 was 18.8 ppb, consistent with the results from the previous QGMs. Well MW-009, which had a TCE concentration of 9.1 ppb during the July 2001 QGM, was found to have a TCE concentration of 2.9 ppb, below the corresponding Tier I Screening Level.

- *Cis-1,2-DCE*

Cis-1,2-DCE was detected in one shallow well, MW-003, exceeding its Tier I Screening Level of 70 ppb. The cis-1,2-DCE concentration for well MW-003 was 171 ppb, consistent with that measured in July 2001 QGM.

- *Vinyl chloride*

Vinyl chloride was detected in two shallow wells: MW-003 and MW-009, exceeding its Tier I Screening Level of 2 ppb. The concentration of vinyl chloride in MW-003 was 6 J ppb, consistent with the results from the previous QGMs. A "J" qualifier indicates that the analyte was positively identified, but that the quantitation is an estimate. Well MW-009 had a vinyl chloride concentration of 3.4 ppb, slightly lower than the concentration of 17.2 ppb measured in July 2001.

- *1,1-DCE*

1,1-DCE was detected in one shallow well, MW-003, at a concentration exceeding its Tier I Screening Level of 7 ppb. The 1,1-DCE concentration was 42.9 ppb for MW-003. Well MW-009, which had a 1,1-DCE concentration of 15.5 ppb during the July 2001 QGM, was found to have a TCE concentration of 4.2 ppb, below the corresponding Tier I Screening Level.

- *Tetrachloroethene (PCE)*

PCE was detected in one shallow well, MW-003, at concentrations exceeding its Tier I Screening Level of 5 ppb. The PCE concentration for well MW-003 was 15.8 ppb, slightly lower than the previous QGM results. Well MW-009, which had a detected PCE concentration of 7.8 ppb during the July 2001 QGM, was found to have a PCE concentration of 2.5 ppb, below the corresponding Tier I Screening Level.

SS 012 – Communications Facility at Building 105

Twelve groundwater wells at SS 012 were sampled during the October 2001 QGM (see Table 1). The 12 wells were installed between February and April 2001 and were sampled for the third time in October. The October 2001 results indicated that VOCs exceeded their corresponding Tier I Screening Levels in 6 out of the 12 wells. The distribution of VOC exceedances at SS 012 is shown in Figure 7. Temporal trends of COC concentrations in groundwater at SS 012 are presented in Figure 8.

- *TCE*

TCE was detected at concentrations exceeding its Tier I Screening Level of 5 ppb in six wells: MW-001, MW-002, MW-003, MW-008, MW-009 and MW-012. The TCE concentrations in these wells ranged from 12.3 ppb to 742 ppb, with the highest concentration occurring in MW-002, consistent with previous results.

- *Cis-1,2-DCE*

There were no cis-1,2-DCE exceedances in October. Well MW-012, which had a concentration of cis-1,2-DCE in July, did not exceed the Screening Level in October.

- *Vinyl Chloride*

Vinyl chloride exceeded its Tier I Screening Level of 2 ppb in one of the 12 wells: MW-001 at a concentration of 6.4 ppb. The well is located 10 feet northwest of the former UST location. This value is consistent with the results from previous sampling.

ST 005 – POL Storage Area

Sixteen groundwater wells were sampled at ST 005 in October 2001 (see Table 1). As in the previous QGM events, TCE was the only VOC detected at concentrations exceeding applicable Tier 1 Screening Levels. TCE was found in nine of the 16 wells. The distribution of TCE at ST 005 is shown in Figure 9 and temporal trends of TCE concentrations in groundwater for select wells are presented in Figure 10. Note that cis-1,2-DCE was detected in several wells at the site, but at concentrations below its Tier 1 Screening Level of 70 ppb. Vinyl chloride was not detected in groundwater at the site in October.

- *TCE*

Several differences in the results can be seen between the previous QGMs and the October 2001 QGM.

First, well MW-014 (S) exhibits the highest TCE concentration among the five QGMs. Well MW-014(S) is located south of the groundwater contaminated zone at the site. The TCE concentration at well MW-014 (S) varied from 487 ppb in June 2000, to 180 ppb in October 2000, to 20.3 ppb in July 2001, and to 556 ppb in October 2001.

Secondly, the TCE concentration in well MW-018(S) decreased from 2,080 ppb in July 2001 to 1,160 ppb in October. This concentration was consistent with that measured in October 2000.

In general, TCE concentrations in wells located at the northwest portion of the groundwater contaminated zone have decreased since July 2001. On the contrary, TCE concentrations in wells located southeast portion of the zone and near the former railroad track have increased since July 2001.

ST 011 – UST 620A (Former CS 004)

Sixteen groundwater wells at CS 004 were sampled as part of the October 2001 QGM (see Table 1). The October 2001 results indicate that VOCs exceeded their corresponding Tier I Screening Levels in two nested pairs of shallow/deep wells, MW-001(S)/MW-008(D) and MW-003(S)/MW-007(D), one shallow well, MW-016(S), and one deep well, MW-006(D). The data for CS 004 is generally consistent with the results from previous rounds of QGM. The distribution of VOC exceedences at CS 004 is depicted in Figure 10, and the temporal trends of COCs in groundwater for select wells are presented in Figure 11.

- *TCE*

TCE was detected in one deep well, MW-006(D), at a concentration of 14.9 ppb, exceeding its corresponding Tier I Screening Level of 5 ppb. The magnitude of the concentration is consistent with those from the previous QGMs.

- *Cis-1,2-DCE*

Cis-1,2-DCE was detected in one shallow well, MW-003(S), at a concentration above its corresponding Tier 1 Screening Level of 70 ppb. The concentration of cis-1,2-DCE at MW-003(S) was 151 ppb in October 2001, slightly lower than those data from the previous QGMs.

- *Vinyl chloride*

Vinyl chloride was found at concentrations above its corresponding Screening Level of 2 ppb in five of sixteen wells at CS 004. Concentrations range from 4.7 ppb (MW-001) to 19.8 ppb (MW-

003). The vinyl chloride concentrations in these wells are consistent with previous sampling results at the site.

Conclusions

Based on the findings from the October 2001 QGM and considering the previous QGM results, the following conclusions may be drawn regarding the occurrence and distribution of VOCs in groundwater at Richards-Gebaur AFB:

- **SS 003**

TCE is the primary COC at the site. With slight variation, concentrations of TCE in groundwater in October 2001 were consistent over the past two years, indicating that groundwater contamination at the site is limited to the area west of Building 704. As in previous years, no significant levels of degradation byproducts of TCE were found at this site. The monitoring well network appears to adequately delineate VOCs in groundwater at the site.

- **SS 006**

The COCs at this site are TCE, cis-1,2-DCE, and vinyl chloride. In general, the concentrations of COCs appear consistent over time. Four downgradient perimeter wells, MW-013, MW-014, MW-015, and MW-018 showed TCE concentrations above the 5 ppb screening level. MW-020, approximately 300 feet downgradient from the above wells, exhibits the highest concentration of TCE at the site (i.e. 930 ppb).

- **SS 009**

The COCs at this site consist of TCE, cis-1,2-DCE, vinyl chloride, PCE, and 1,1-DCE. The October 2001 results were generally consistent with the results of the past five QGM events. The monitoring well network appears to adequately delineate VOCs in groundwater at the site.

- **SS 012**

TCE is the primary COC at the site. The concentration of TCE in groundwater was consistent with the results obtained during the previous two QGM events. The extent of groundwater contamination appears to be sufficiently delineated at the site.

- **ST 005**

TCE is the only COC at this site, and has consistently been detected above its 5 ppb screening level in several onsite wells. As found during the previous QGMs, the main area of contamination appears to lie northeast of former Facility 959. TCE concentrations within this area have varied over the past six QGMs. Three perimeter wells, MW-020, MW-021, and MW-022, showed TCE concentrations slightly above the 5 ppb screening level. In general, the monitoring well network appears to adequately delineate VOCs in groundwater at the site.

- **ST 011**

The COCs at this site are TCE, cis-1,2-DCE, and vinyl chloride. With slight variation, the concentrations of COCs detected in October 2001 were generally consistent with those measured in the previous QGMs. The monitoring well network appears to adequately delineate VOCs in groundwater at the site.

Table 1: Quarterly Groundwater Monitoring Wells at Richards-Gebaur AFB

SS 003 (Oil Saturated Area)	SS 006 (Hazardous Material Storage Area)	SS 009 (Fire Valve Area)	SS 012 (Communications Facility at Bldg. 105)	ST 005 (POL Storage Yard)	ST 011 (UST 620 A)
MW-001	MW-005	MW-002(S)	MW-001	MW-003 (S) / MW-010(D)	MW-001(S) / MW-008(D)
MW-003	MW-008	MW-003(S)	MW-002	MW-011(D) / MW-012(S)	MW-002(S)
MW-004	MW-009	MW-005(S)	MW-003	MW-013(D) / MW-014(S)	MW-003(S) / MW-007(D)
MW-005	MW-010	MW-006(D)	MW-004	MW-015(D) / MW-016(S)	MW-004 (D)
MW-006	MW-011	MW-008(D)	MW-005	MW-017(D) / MW-018(S)	MW-005(S)
MW-007	MW-012	MW-009(S)	MW-006	MW-019 (S)	MW-006(D)
MW-008	MW-013	MW-010(D)	MW-007	MW-020 (S)	MW-009(S) / MW-010(D)
MW-002 (CS 002)	MW-014	MW-011(S)	MW-008	MW-021 (S)	MW-011 (D)
	MW-015		MW-009	MW-022 (S)	MW-012(S)
	MW-016		MW-010	MW-023 (S)	MW-013(S)
	MW-017		MW-011	MW-1207 (S)	MW-014(S)
	MW-018		MW-012		MW-015(D)
	MW-019				MW-016(S)
	MW-020				
	MW-001 (AOC 001)				

Table 2: Compounds Detected in Groundwater, October 2001 Quarterly Monitoring Event

Site	Media	Location	QAQC Type	Sample Date	Detected Concentration	Analyte	Units
BLDG-105							
	Water	BLDG105-MW001	FD	10/05/2001	0.66	1,1-Dichloroethane	ug/L
	Water	BLDG105-MW001	N	10/05/2001	0.63	1,1-Dichloroethane	ug/L
	Water	BLDG105-MW001	FD	10/05/2001	0.23	1,1-Dichloroethane	ug/L
	Water	BLDG105-MW001	N	10/05/2001	0.2	1,1-Dichloroethane	ug/L
	Water	BLDG105-MW001	FD	10/05/2001	2.3	1,2-Dichlorobenzene	ug/L
	Water	BLDG105-MW001	N	10/05/2001	2	1,2-Dichlorobenzene	ug/L
	Water	BLDG105-MW001	FD	10/05/2001	0.13	1,3-Dichlorobenzene	ug/L
	Water	BLDG105-MW001	FD	10/05/2001	0.59	1,4-Dichlorobenzene	ug/L
	Water	BLDG105-MW001	N	10/05/2001	0.5	1,4-Dichlorobenzene	ug/L
	Water	BLDG105-MW001	FD	10/05/2001	0.18	Benzene	ug/L
	Water	BLDG105-MW001	N	10/05/2001	0.16	Benzene	ug/L
	Water	BLDG105-MW001	FD	10/05/2001	3.3	Chlorobenzene	ug/L
	Water	BLDG105-MW001	N	10/05/2001	2.9	Chlorobenzene	ug/L
	Water	BLDG105-MW001	FD	10/05/2001	33	cis-1,2-Dichloroethylene	ug/L
	Water	BLDG105-MW001	N	10/05/2001	32.5	cis-1,2-Dichloroethylene	ug/L
	Water	BLDG105-MW001	FD	10/05/2001	0.13	Hexachlorobutadiene	ug/L
	Water	BLDG105-MW001	N	10/05/2001	1.6	Tetrachloroethylene	ug/L
	Water	BLDG105-MW001	FD	10/05/2001	1.8	Tetrachloroethylene	ug/L
	Water	BLDG105-MW001	N	10/05/2001	0.47	trans-1,2-Dichloroethene	ug/L
	Water	BLDG105-MW001	FD	10/05/2001	0.53	trans-1,2-Dichloroethene	ug/L
	Water	BLDG105-MW001	FD	10/05/2001	199	Trichloroethylene	ug/L
	Water	BLDG105-MW001	N	10/05/2001	180	Trichloroethylene	ug/L
	Water	BLDG105-MW001	N	10/05/2001	6.4	Vinyl Chloride	ug/L
	Water	BLDG105-MW001	FD	10/05/2001	7.3	Vinyl Chloride	ug/L
	Water	BLDG105-MW002	N	10/05/2001	0.25	1,1-Dichloroethane	ug/L
	Water	BLDG105-MW002	N	10/05/2001	0.12	1,2-Dichlorobenzene	ug/L
	Water	BLDG105-MW002	N	10/05/2001	0.2	Benzene	ug/L
	Water	BLDG105-MW002	N	10/05/2001	0.24	Chlorobenzene	ug/L
	Water	BLDG105-MW002	N	10/05/2001	0.2	Chloroform	ug/L
	Water	BLDG105-MW002	N	10/05/2001	79.7	cis-1,2-Dichloroethylene	ug/L
	Water	BLDG105-MW002	N	10/05/2001	0.22	Tetrachloroethylene	ug/L
	Water	BLDG105-MW002	N	10/05/2001	0.58	trans-1,2-Dichloroethene	ug/L
	Water	BLDG105-MW002	N	10/05/2001	742	Trichloroethylene	ug/L
	Water	BLDG105-MW003	N	10/05/2001	1.4	cis-1,2-Dichloroethylene	ug/L
	Water	BLDG105-MW003	N	10/05/2001	12.3	Trichloroethylene	ug/L
	Water	BLDG105-MW007	N	10/05/2001	1.7	Trichloroethylene	ug/L
	Water	BLDG105-MW008	N	10/05/2001	5.2	cis-1,2-Dichloroethylene	ug/L
	Water	BLDG105-MW008	N	10/05/2001	0.11	trans-1,2-Dichloroethene	ug/L
	Water	BLDG105-MW008	N	10/05/2001	161	Trichloroethylene	ug/L
	Water	BLDG105-MW009	N	10/05/2001	0.49	1,1-Dichloroethane	ug/L
	Water	BLDG105-MW009	N	10/05/2001	0.33	Benzene	ug/L
	Water	BLDG105-MW009	N	10/05/2001	0.35	Toluene	ug/L
	Water	BLDG105-MW009	N	10/05/2001	22.1	Trichloroethylene	ug/L
	Water	BLDG105-MW010	N	10/05/2001	0.28	1,1-Dichloroethane	ug/L
	Water	BLDG105-MW010	N	10/05/2001	0.59	Benzene	ug/L
	Water	BLDG105-MW010	N	10/05/2001	0.49	Toluene	ug/L
	Water	BLDG105-MW010	N	10/05/2001	0.14	Trichloroethylene	ug/L
	Water	BLDG105-MW012	N	10/05/2001	0.24	1,1-Dichloroethane	ug/L

U-flagged and R-flagged data are not included in this table.

Qualifier Description

J = The analyte was positively identified, the quantitation is an estimate

F = The analyte was positively identified but the associated numerical value is below the reporting limit (RL)

B = The analyte was found in an associated blank, as well as in the sample

M = A matrix effect was present

Site	Media	Location	QAQC Type	Sample Date	Detected Concentration	Analyte	Units
BLDG-105							
	Water	BLDG105-MW012	N	10/05/2001	0.11 F	Benzene	ug/L
	Water	BLDG105-MW012	N	10/05/2001	14.3	cis-1,2-Dichloroethylene	ug/L
	Water	BLDG105-MW012	N	10/05/2001	0.19 F	trans-1,2-Dichloroethene	ug/L
	Water	BLDG105-MW012	N	10/05/2001	122	Trichloroethylene	ug/L
CS-002							
	Water	CS02-MW02R	N	10/03/2001	0.1 F	Benzene	ug/L
	Water	CS02-MW02R	N	10/03/2001	0.56 F	cis-1,2-Dichloroethylene	ug/L
	Water	CS02-MW02R	N	10/03/2001	3	Trichloroethylene	ug/L
CS-004							
	Water	CS04-MW01	FD	10/06/2001	0.39 F	Benzene	ug/L
	Water	CS04-MW01	FD	10/06/2001	30.6	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW01	FD	10/06/2001	2	trans-1,2-Dichloroethene	ug/L
	Water	CS04-MW01	FD	10/06/2001	4.3	Vinyl Chloride	ug/L
	Water	CS04-MW01	N	10/06/2001	0.43	Benzene	ug/L
	Water	CS04-MW01	N	10/06/2001	32.6	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW01	N	10/06/2001	2.1	trans-1,2-Dichloroethene	ug/L
	Water	CS04-MW01	N	10/06/2001	0.16 F	Trichloroethylene	ug/L
	Water	CS04-MW01	N	10/06/2001	4.7	Vinyl Chloride	ug/L
	Water	CS04-MW02	N	10/06/2001	1.4	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW02	N	10/06/2001	0.13 F	trans-1,2-Dichloroethene	ug/L
	Water	CS04-MW02	N	10/06/2001	0.54 F	Trichloroethylene	ug/L
	Water	CS04-MW03	N	10/06/2001	0.11 F	Benzene	ug/L
	Water	CS04-MW03	N	10/06/2001	151	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW03	N	10/06/2001	21	trans-1,2-Dichloroethene	ug/L
	Water	CS04-MW03	N	10/06/2001	2.2	Trichloroethylene	ug/L
	Water	CS04-MW03	N	10/06/2001	19.8	Vinyl Chloride	ug/L
	Water	CS04-MW06	N	10/06/2001	0.22 F	Benzene	ug/L
	Water	CS04-MW06	N	10/06/2001	4.9	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW06	N	10/06/2001	0.32 F	Tetrachloroethylene	ug/L
	Water	CS04-MW06	N	10/06/2001	14.9	Trichloroethylene	ug/L
	Water	CS04-MW07	N	10/06/2001	49.7	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW07	N	10/06/2001	5.7	trans-1,2-Dichloroethene	ug/L
	Water	CS04-MW07	N	10/06/2001	5.2	Trichloroethylene	ug/L
	Water	CS04-MW07	N	10/06/2001	5.4	Vinyl Chloride	ug/L
	Water	CS04-MW08	N	10/06/2001	0.44	Benzene	ug/L
	Water	CS04-MW08	N	10/06/2001	43.7	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW08	N	10/06/2001	2.7	trans-1,2-Dichloroethene	ug/L
	Water	CS04-MW08	N	10/06/2001	7.3	Vinyl Chloride	ug/L
	Water	CS04-MW09	N	10/06/2001	6.3	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW09	N	10/06/2001	0.79	trans-1,2-Dichloroethene	ug/L
	Water	CS04-MW09	N	10/06/2001	0.49 F	Trichloroethylene	ug/L
	Water	CS04-MW09	N	10/06/2001	1.2	Vinyl Chloride	ug/L
	Water	CS04-MW10	N	10/06/2001	2.3	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW10	N	10/06/2001	0.28 F	trans-1,2-Dichloroethene	ug/L
	Water	CS04-MW10	N	10/06/2001	0.35 F	Trichloroethylene	ug/L
	Water	CS04-MW10	N	10/06/2001	0.31 F	Vinyl Chloride	ug/L
	Water	CS04-MW11	N	10/09/2001	0.16 F	Benzene	ug/L
	Water	CS04-MW11	N	10/09/2001	0.48 F	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW12	N	10/09/2001	0.48 F	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW12	N	10/09/2001	0.27 F	Vinyl Chloride	ug/L

U-flagged and R-flagged data are not included in this table.

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J = The analyte was positively identified, the quantitation is an estimate

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B = The analyte was found in an associated blank, as well as in the sample

M = A matrix effect was present

Site	Media	Location	QAQC Type	Sample Date	Detected Concentration	Analyte	Units
CS-004							
	Water	CS04-MW13	N	10/09/2001	0.45	Benzene	ug/L
	Water	CS04-MW14	N	10/09/2001	0.27 F	Benzene	ug/L
	Water	CS04-MW14	N	10/09/2001	0.11 F	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW15	N	10/09/2001	0.13 F	Benzene	ug/L
	Water	CS04-MW16	N	10/09/2001	1.1	Benzene	ug/L
	Water	CS04-MW16	N	10/09/2001	8.8	cis-1,2-Dichloroethylene	ug/L
	Water	CS04-MW16	N	10/09/2001	3.1	trans-1,2-Dichloroethene	ug/L
	Water	CS04-MW16	N	10/09/2001	7.3	Vinyl Chloride	ug/L
SS-003							
	Water	SS03-MW04	N	10/03/2001	0.26 F	1,2-Dichloroethane	ug/L
	Water	SS03-MW04	FD	10/03/2001	0.26 F	1,2-Dichloroethane	ug/L
	Water	SS03-MW04	N	10/03/2001	0.13 F	Chloroform	ug/L
	Water	SS03-MW04	FD	10/03/2001	0.15 F	Chloroform	ug/L
	Water	SS03-MW04	FD	10/03/2001	7.6	cis-1,2-Dichloroethylene	ug/L
	Water	SS03-MW04	N	10/03/2001	7.3	cis-1,2-Dichloroethylene	ug/L
	Water	SS03-MW04	FD	10/03/2001	0.32 F	trans-1,2-Dichloroethene	ug/L
	Water	SS03-MW04	N	10/03/2001	0.31 F	trans-1,2-Dichloroethene	ug/L
	Water	SS03-MW04	FD	10/03/2001	57.6	Trichloroethylene	ug/L
	Water	SS03-MW04	N	10/03/2001	55.2	Trichloroethylene	ug/L
	Water	SS03-MW06	N	10/03/2001	0.37 F	Carbon Tetrachloride	ug/L
	Water	SS03-MW06	N	10/03/2001	4.6	Chloroform	ug/L
	Water	SS03-MW06	N	10/03/2001	6	cis-1,2-Dichloroethylene	ug/L
	Water	SS03-MW06	N	10/03/2001	9.6	Trichloroethylene	ug/L
	Water	SS03-MW07	N	10/03/2001	0.35 F	1,1-Dichloroethene	ug/L
	Water	SS03-MW07	N	10/03/2001	0.18 F	1,2-Dichloroethane	ug/L
	Water	SS03-MW07	N	10/03/2001	0.27 F	Benzene	ug/L
	Water	SS03-MW07	N	10/03/2001	21.2	cis-1,2-Dichloroethylene	ug/L
	Water	SS03-MW07	N	10/03/2001	0.27 F	trans-1,2-Dichloroethene	ug/L
	Water	SS03-MW07	N	10/03/2001	11	Trichloroethylene	ug/L
	Water	SS03-MW07	N	10/03/2001	0.98 F	Vinyl Chloride	ug/L
	Water	SS03-MW08	N	10/03/2001	0.52 F	1,1-Dichloroethene	ug/L
	Water	SS03-MW08	N	10/03/2001	0.34 F	cis-1,2-Dichloroethylene	ug/L
	Water	SS03-MW08	N	10/03/2001	0.54 J	Methylene Chloride	ug/L
	Water	SS03-MW08	N	10/03/2001	0.1 F	Styrene	ug/L
	Water	SS03-MW08	N	10/03/2001	0.16 F	Toluene	ug/L
	Water	SS03-MW08	N	10/03/2001	2.7 J	Trichloroethylene	ug/L
	Water	SS03-MW1	N	10/03/2001	1.9	cis-1,2-Dichloroethylene	ug/L
	Water	SS03-MW1	N	10/03/2001	0.8 F	Trichloroethylene	ug/L
	Water	SS03-MW3	N	10/03/2001	2	cis-1,2-Dichloroethylene	ug/L
	Water	SS03-MW3	N	10/03/2001	2.4	Trichloroethylene	ug/L
SS-006							
	Water	SS06-MW05	N	10/01/2001	0.26 F	1,1-Dichloroethane	ug/L
	Water	SS06-MW05	N	10/01/2001	0.16 F	1,1-Dichloroethane	ug/L
	Water	SS06-MW05	N	10/01/2001	0.11 F	Benzene	ug/L
	Water	SS06-MW05	N	10/01/2001	0.38 F	Chlorobenzene	ug/L
	Water	SS06-MW05	N	10/01/2001	50.1 M	cis-1,2-Dichloroethylene	ug/L
	Water	SS06-MW05	N	10/01/2001	3.2	trans-1,2-Dichloroethene	ug/L
	Water	SS06-MW05	N	10/01/2001	271	Trichloroethylene	ug/L
	Water	SS06-MW05	N	10/01/2001	3.7	Vinyl Chloride	ug/L
	Water	SS06-MW08	N	10/01/2001	6.8	cis-1,2-Dichloroethylene	ug/L

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Site	Media	Location	QAQC Type	Sample Date	Detected Concentration	Analyte	Units
SS-006							
	Water	SS06-MW08	N	10/01/2001	1 2	trans-1,2-Dichloroethene	ug/L
	Water	SS06-MW08	N	10/01/2001	1 4	Trichloroethylene	ug/L
	Water	SS06-MW09	N	10/01/2001	0 22 F	Benzene	ug/L
	Water	SS06-MW09	FD	10/01/2001	0 25 F	Benzene	ug/L
	Water	SS06-MW09	FD	10/01/2001	22 6	cis-1,2-Dichloroethylene	ug/L
	Water	SS06-MW09	N	10/01/2001	20 8	cis-1,2-Dichloroethylene	ug/L
	Water	SS06-MW09	FD	10/01/2001	0 17 F	trans-1,2-Dichloroethene	ug/L
	Water	SS06-MW09	N	10/01/2001	0 17 F	trans-1,2-Dichloroethene	ug/L
	Water	SS06-MW09	N	10/01/2001	30 3	Trichloroethylene	ug/L
	Water	SS06-MW09	FD	10/01/2001	25 9	Trichloroethylene	ug/L
	Water	SS06-MW09	N	10/01/2001	0 5 F	Vinyl Chloride	ug/L
	Water	SS06-MW09	FD	10/01/2001	0 5 F	Vinyl Chloride	ug/L
	Water	SS06-MW10	N	10/01/2001	0 6	1,1-Dichloroethane	ug/L
	Water	SS06-MW10	N	10/01/2001	0 35 F	1,1-Dichloroethane	ug/L
	Water	SS06-MW10	N	10/01/2001	0 18 F	1,2-Dichlorobenzene	ug/L
	Water	SS06-MW10	N	10/01/2001	0 1 F	1,4-Dichlorobenzene	ug/L
	Water	SS06-MW10	N	10/01/2001	0 14 F	Benzene	ug/L
	Water	SS06-MW10	N	10/01/2001	0 13 F	Chlorobenzene	ug/L
	Water	SS06-MW10	N	10/01/2001	97 2	cis-1,2-Dichloroethylene	ug/L
	Water	SS06-MW10	N	10/01/2001	6.2	trans-1,2-Dichloroethene	ug/L
	Water	SS06-MW10	N	10/01/2001	166	Trichloroethylene	ug/L
	Water	SS06-MW10	N	10/01/2001	3 2	Vinyl Chloride	ug/L
	Water	SS06-MW11	N	10/01/2001	0.16 F	1,1-Dichloroethane	ug/L
	Water	SS06-MW11	N	10/01/2001	73 7	cis-1,2-Dichloroethylene	ug/L
	Water	SS06-MW11	N	10/01/2001	6 2	trans-1,2-Dichloroethene	ug/L
	Water	SS06-MW11	N	10/01/2001	141	Trichloroethylene	ug/L
	Water	SS06-MW12	N	10/01/2001	0 11 F	1,1,2-Trichloroethane	ug/L
	Water	SS06-MW12	N	10/01/2001	0 39 F	1,1-Dichloroethane	ug/L
	Water	SS06-MW12	N	10/01/2001	0 21 F	1,2-Dichlorobenzene	ug/L
	Water	SS06-MW12	N	10/01/2001	0.14 F	1,3-Dichlorobenzene	ug/L
	Water	SS06-MW12	N	10/01/2001	0 25 F	1,4-Dichlorobenzene	ug/L
	Water	SS06-MW12	N	10/01/2001	0 12 F	Chlorobenzene	ug/L
	Water	SS06-MW12	N	10/01/2001	78 1	cis-1,2-Dichloroethylene	ug/L
	Water	SS06-MW12	N	10/01/2001	10 4	trans-1,2-Dichloroethene	ug/L
	Water	SS06-MW12	N	10/01/2001	86	Trichloroethylene	ug/L
	Water	SS06-MW12	N	10/01/2001	0 78 F	Vinyl Chloride	ug/L
	Water	SS06-MW13	N	10/01/2001	9.9	cis-1,2-Dichloroethylene	ug/L
	Water	SS06-MW13	N	10/01/2001	18	Trichloroethylene	ug/L
	Water	SS06-MW14	N	10/01/2001	6 5	cis-1,2-Dichloroethylene	ug/L
	Water	SS06-MW14	N	10/01/2001	0 18 F	trans-1,2-Dichloroethene	ug/L
	Water	SS06-MW14	N	10/01/2001	70 2	Trichloroethylene	ug/L
	Water	SS06-MW15	N	10/01/2001	0 12 F	1,1-Dichloroethane	ug/L
	Water	SS06-MW15	N	10/01/2001	0 14 F	Benzene	ug/L
	Water	SS06-MW15	N	10/01/2001	4 3	cis-1,2-Dichloroethylene	ug/L
	Water	SS06-MW15	N	10/01/2001	0 15 F	trans-1,2-Dichloroethene	ug/L
	Water	SS06-MW15	N	10/01/2001	128	Trichloroethylene	ug/L
	Water	SS06-MW16	N	10/01/2001	0 18 F	Trichloroethylene	ug/L
	Water	SS06-MW18	N	10/01/2001	33 7	cis-1,2-Dichloroethylene	ug/L
	Water	SS06-MW18	N	10/01/2001	0 27 F	trans-1,2-Dichloroethene	ug/L
	Water	SS06-MW18	N	10/01/2001	16 9	Trichloroethylene	ug/L

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SS-006							
	Water	SS06-MW18	N	10/01/2001	0.2 F	Vinyl Chloride	ug/L
	Water	SS06-MW19	N	10/02/2001	0.14 F	Trichloroethylene	ug/L
	Water	SS06-MW20	N	10/02/2001	5.6	1,1-Dichloroethene	ug/L
	Water	SS06-MW20	N	10/02/2001	0.43	Benzene	ug/L
	Water	SS06-MW20	N	10/02/2001	132	cis-1,2-Dichloroethylene	ug/L
	Water	SS06-MW20	N	10/02/2001	67.5	trans-1,2-Dichloroethene	ug/L
	Water	SS06-MW20	N	10/02/2001	930	Trichloroethylene	ug/L
	Water	SS06-MW20	N	10/02/2001	18.1	Vinyl Chloride	ug/L
	Water	SS06-MW20	FD	10/02/2001	5.3	1,1-Dichloroethene	ug/L
	Water	SS06-MW20	FD	10/02/2001	0.41	Benzene	ug/L
	Water	SS06-MW20	FD	10/02/2001	125	cis-1,2-Dichloroethylene	ug/L
	Water	SS06-MW20	FD	10/02/2001	64.1	trans-1,2-Dichloroethene	ug/L
	Water	SS06-MW20	FD	10/02/2001	859	Trichloroethylene	ug/L
	Water	SS06-MW20	FD	10/02/2001	17	Vinyl Chloride	ug/L
	Water	SS06-MW23	N	10/05/2001	0.18 F	Trichloroethylene	ug/L
	Water	SS06-MW24	N	10/05/2001	0.11 F	Trichloroethylene	ug/L
SS-009							
	Water	SS09-MW02	N	10/03/2001	0.27 F	Trichloroethylene	ug/L
	Water	SS09-MW03	N	10/03/2001	0.2 F	1,1,2-Trichloroethane	ug/L
	Water	SS09-MW03	N	10/03/2001	53.5	1,1-Dichloroethane	ug/L
	Water	SS09-MW03	N	10/03/2001	42.9	1,1-Dichloroethene	ug/L
	Water	SS09-MW03	N	10/03/2001	0.71	1,2-Dichloroethane	ug/L
	Water	SS09-MW03	N	10/03/2001	1.6	Benzene	ug/L
	Water	SS09-MW03	N	10/03/2001	171	cis-1,2-Dichloroethylene	ug/L
	Water	SS09-MW03	N	10/03/2001	15.8	Tetrachloroethylene	ug/L
	Water	SS09-MW03	N	10/03/2001	0.68 F	Toluene	ug/L
	Water	SS09-MW03	N	10/03/2001	0.23 F	trans-1,2-Dichloroethene	ug/L
	Water	SS09-MW03	N	10/03/2001	18.8	Trichloroethylene	ug/L
	Water	SS09-MW03	N	10/03/2001	6. J	Vinyl Chloride	ug/L
	Water	SS09-MW03	FD	10/03/2001	0.19 F	1,1,2-Trichloroethane	ug/L
	Water	SS09-MW03	FD	10/03/2001	53.2	1,1-Dichloroethane	ug/L
	Water	SS09-MW03	FD	10/03/2001	41.7	1,1-Dichloroethene	ug/L
	Water	SS09-MW03	FD	10/03/2001	0.72	1,2-Dichloroethane	ug/L
	Water	SS09-MW03	FD	10/03/2001	1.6	Benzene	ug/L
	Water	SS09-MW03	FD	10/03/2001	167	cis-1,2-Dichloroethylene	ug/L
	Water	SS09-MW03	FD	10/03/2001	14.8	Tetrachloroethylene	ug/L
	Water	SS09-MW03	FD	10/03/2001	0.64 F	Toluene	ug/L
	Water	SS09-MW03	FD	10/03/2001	0.23 F	trans-1,2-Dichloroethene	ug/L
	Water	SS09-MW03	FD	10/03/2001	19.2	Trichloroethylene	ug/L
	Water	SS09-MW03	FD	10/03/2001	4.8 J	Vinyl Chloride	ug/L
	Water	SS09-MW05	N	10/03/2001	0.99	1,1-Dichloroethane	ug/L
	Water	SS09-MW05	N	10/03/2001	0.39 F	1,1-Dichloroethene	ug/L
	Water	SS09-MW05	N	10/03/2001	0.85 F	cis-1,2-Dichloroethylene	ug/L
	Water	SS09-MW05	N	10/03/2001	3.1	Tetrachloroethylene	ug/L
	Water	SS09-MW05	N	10/03/2001	0.94 F	Trichloroethylene	ug/L
	Water	SS09-MW06	N	10/03/2001	0.65	1,1-Dichloroethane	ug/L
	Water	SS09-MW06	N	10/03/2001	0.24 F	1,1-Dichloroethene	ug/L
	Water	SS09-MW06	N	10/03/2001	0.21 F	Benzene	ug/L
	Water	SS09-MW06	N	10/03/2001	1.3	cis-1,2-Dichloroethylene	ug/L
	Water	SS09-MW06	N	10/03/2001	0.13 F	Trichloroethylene	ug/L

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Site	Media	Location	QAQC Type	Sample Date	Detected Concentration	Analyte	Units
SS-009							
	Water	SS09-MW08	N	10/03/2001	0.15 F	cis-1,2-Dichloroethylene	ug/L
	Water	SS09-MW09	N	10/03/2001	3 1	1,1-Dichloroethane	ug/L
	Water	SS09-MW09	N	10/03/2001	4 2	1,1-Dichloroethane	ug/L
	Water	SS09-MW09	N	10/03/2001	0.14 F	1,2-Dichloroethane	ug/L
	Water	SS09-MW09	N	10/03/2001	0 15 F	Benzene	ug/L
	Water	SS09-MW09	N	10/03/2001	14	cis-1,2-Dichloroethylene	ug/L
	Water	SS09-MW09	N	10/03/2001	2 5	Tetrachloroethylene	ug/L
	Water	SS09-MW09	N	10/03/2001	0 1 F	trans-1,2-Dichloroethene	ug/L
	Water	SS09-MW09	N	10/03/2001	2 9	Tnchloroethylene	ug/L
	Water	SS09-MW09	N	10/03/2001	3 4	Vinyl Chlonde	ug/L
ST-005							
	Water	ST05-MW03	FD	10/09/2001	0 34 F	1,1-Dichloroethene	ug/L
	Water	ST05-MW03	FD	10/09/2001	0 21 F	Carbon Tetrachlonde	ug/L
	Water	ST05-MW03	FD	10/09/2001	0 82 B	Chloroform	ug/L
	Water	ST05-MW03	FD	10/09/2001	1.1 F	cis-1,2-Dichloroethylene	ug/L
	Water	ST05-MW03	FD	10/09/2001	278	Tnchloroethylene	ug/L
	Water	ST05-MW03	FD	10/09/2001	186 J	Tnchlorofluoromethane	ug/L
	Water	ST05-MW10	N	10/09/2001	0 3 F	cis-1,2-Dichloroethylene	ug/L
	Water	ST05-MW10	N	10/09/2001	10 3	Trichloroethylene	ug/L
	Water	ST05-MW10	N	10/09/2001	6 8	Tnchlorofluoromethane	ug/L
	Water	ST05-MW10	FD	10/09/2001	0 3 F	cis-1,2-Dichloroethylene	ug/L
	Water	ST05-MW10	FD	10/09/2001	9 9	Tnchloroethylene	ug/L
	Water	ST05-MW10	FD	10/09/2001	7 1	Tnchlorofluoromethane	ug/L
	Water	ST05-MW11	N	10/09/2001	0 17 F	cis-1,2-Dichloroethylene	ug/L
	Water	ST05-MW11	N	10/09/2001	1 8	Tnchloroethylene	ug/L
	Water	ST05-MW11	N	10/09/2001	0 58 F	Tnchlorofluoromethane	ug/L
	Water	ST05-MW12	N	10/09/2001	0 1 F	Benzene	ug/L
	Water	ST05-MW12	N	10/09/2001	0 11 F	Chloroform	ug/L
	Water	ST05-MW12	N	10/09/2001	0 25 F	cis-1,2-Dichloroethylene	ug/L
	Water	ST05-MW12	N	10/09/2001	63 3	Tnchloroethylene	ug/L
	Water	ST05-MW12	N	10/09/2001	18 8	Tnchlorofluoromethane	ug/L
	Water	ST05-MW13	N	10/09/2001	0 37 F	1,1-Dichloroethane	ug/L
	Water	ST05-MW13	N	10/09/2001	0.13 F	Benzene	ug/L
	Water	ST05-MW13	N	10/09/2001	0 11 F	Chloroform	ug/L
	Water	ST05-MW13	N	10/09/2001	1 2	cis-1,2-Dichloroethylene	ug/L
	Water	ST05-MW13	N	10/09/2001	55	Tnchloroethylene	ug/L
	Water	ST05-MW13	N	10/09/2001	13 9	Tnchlorofluoromethane	ug/L
	Water	ST05-MW14	N	10/09/2001	2	1,1-Dichloroethene	ug/L
	Water	ST05-MW14	N	10/09/2001	0 24 F	Benzene	ug/L
	Water	ST05-MW14	N	10/09/2001	0 17 F	Carbon Tetrachlonde	ug/L
	Water	ST05-MW14	N	10/09/2001	0 76 B	Chloroform	ug/L
	Water	ST05-MW14	N	10/09/2001	4 4	cis-1,2-Dichloroethylene	ug/L
	Water	ST05-MW14	N	10/09/2001	556	Tnchloroethylene	ug/L
	Water	ST05-MW14	N	10/09/2001	188	Tnchlorofluoromethane	ug/L
	Water	ST05-MW15	N	10/09/2001	0 76 F	Tnchloroethylene	ug/L
	Water	ST05-MW15	N	10/09/2001	3	Tnchlorofluoromethane	ug/L
	Water	ST05-MW16	N	10/09/2001	2 8	Tnchloroethylene	ug/L
	Water	ST05-MW16	N	10/09/2001	7 1	Tnchlorofluoromethane	ug/L
	Water	ST05-MW17	N	10/09/2001	0 27 F	Trichloroethylene	ug/L
	Water	ST05-MW17	N	10/09/2001	0 37 F	Tnchlorofluoromethane	ug/L

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Site	Media	Location	QAQC Type	Sample Date	Detected Concentration	Analyte	Units
ST-005							
	Water	ST05-MW18	N	10/09/2001	1.4	1,1-Dichloroethene	ug/L
	Water	ST05-MW18	N	10/09/2001	0.27 F	Benzene	ug/L
	Water	ST05-MW18	N	10/09/2001	1.2 F	Carbon Tetrachloride	ug/L
	Water	ST05-MW18	N	10/09/2001	1.6 B	Chloroform	ug/L
	Water	ST05-MW18	N	10/09/2001	2.9	cis-1,2-Dichloroethylene	ug/L
	Water	ST05-MW18	N	10/09/2001	0.49 F	Dichlorodifluoromethane	ug/L
	Water	ST05-MW18	N	10/09/2001	1160	Trichloroethylene	ug/L
	Water	ST05-MW18	N	10/09/2001	792	Trichlorofluoromethane	ug/L
	Water	ST05-MW19	N	10/09/2001	0.34 F	Benzene	ug/L
	Water	ST05-MW19	N	10/09/2001	0.22 F	Ethylbenzene	ug/L
	Water	ST05-MW19	N	10/09/2001	0.19 F	Isopropylbenzene	ug/L
	Water	ST05-MW19	N	10/09/2001	0.12 F	n-Propylbenzene	ug/L
	Water	ST05-MW19	N	10/09/2001	0.13 F	p-Isopropyltoluene	ug/L
	Water	ST05-MW19	N	10/09/2001	0.15 F	sec-Butylbenzene	ug/L
	Water	ST05-MW19	N	10/09/2001	0.36 F	t-Butylbenzene	ug/L
	Water	ST05-MW19	N	10/09/2001	0.76 F	Trichloroethylene	ug/L
	Water	ST05-MW19	N	10/09/2001	0.42 F	Trichlorofluoromethane	ug/L
	Water	ST05-MW20	N	10/09/2001	0.39 F	Benzene	ug/L
	Water	ST05-MW20	N	10/09/2001	13.8	cis-1,2-Dichloroethylene	ug/L
	Water	ST05-MW20	N	10/09/2001	18.7	Trichloroethylene	ug/L
	Water	ST05-MW20	N	10/09/2001	0.3 F	Trichlorofluoromethane	ug/L
	Water	ST05-MW21	N	10/09/2001	6.2	Trichloroethylene	ug/L
	Water	ST05-MW21	N	10/09/2001	4.2	Trichlorofluoromethane	ug/L
	Water	ST05-MW22	N	10/09/2001	5.3	Trichloroethylene	ug/L
	Water	ST05-MW23	N	10/09/2001	0.39 F	Trichloroethylene	ug/L
	Water	ST05-MW3	N	10/09/2001	0.19 F	1,1-Dichloroethene	ug/L
	Water	ST05-MW3	N	10/09/2001	0.15 F	Carbon Tetrachloride	ug/L
	Water	ST05-MW3	N	10/09/2001	0.72 B	Chloroform	ug/L
	Water	ST05-MW3	N	10/09/2001	0.78 F	cis-1,2-Dichloroethylene	ug/L
	Water	ST05-MW3	N	10/09/2001	243	Trichloroethylene	ug/L
	Water	ST05-MW3	N	10/09/2001	139 J	Trichlorofluoromethane	ug/L

U-flagged and R-flagged data are not included in this table

Qualifier Description

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B = The analyte was found in an associated blank, as well as in the sample

M = A matrix effect was present

Table 3: Compounds Exceeding Tier 1 Screening Levels in Groundwater, October 2001 Quarterly Monitoring Event

Site	Media	Location	QAQC Type	Sample Date	Units	Analyte	Detected Concentration	Screening Level
BLDG-105								
	Water	BLDG105-MW002	N	10/05/2001	ug/L	cis-1,2-Dichloroethylene	79.7	70
	Water	BLDG105-MW002	N	10/05/2001	ug/L	Trichloroethylene	742	5
	Water	BLDG105-MW001	FD	10/05/2001	ug/L	Trichloroethylene	199	5
	Water	BLDG105-MW001	N	10/05/2001	ug/L	Trichloroethylene	180	5
	Water	BLDG105-MW008	N	10/05/2001	ug/L	Trichloroethylene	161	5
	Water	BLDG105-MW012	N	10/05/2001	ug/L	Trichloroethylene	122	5
	Water	BLDG105-MW009	N	10/05/2001	ug/L	Trichloroethylene	22.1	5
	Water	BLDG105-MW003	N	10/05/2001	ug/L	Trichloroethylene	12.3	5
	Water	BLDG105-MW001	FD	10/05/2001	ug/L	Vinyl Chloride	7.3	2
	Water	BLDG105-MW001	N	10/05/2001	ug/L	Vinyl Chloride	6.4	2
CS-004								
	Water	CS04-MW03	N	10/06/2001	ug/L	cis-1,2-Dichloroethylene	151	70
	Water	CS04-MW06	N	10/06/2001	ug/L	Trichloroethylene	14.9	5
	Water	CS04-MW07	N	10/06/2001	ug/L	Trichloroethylene	5.2	5
	Water	CS04-MW03	N	10/06/2001	ug/L	Vinyl Chloride	19.8	2
	Water	CS04-MW08	N	10/06/2001	ug/L	Vinyl Chloride	7.3	2
	Water	CS04-MW16	N	10/09/2001	ug/L	Vinyl Chloride	7.3	2
	Water	CS04-MW07	N	10/06/2001	ug/L	Vinyl Chloride	5.4	2
	Water	CS04-MW01	N	10/06/2001	ug/L	Vinyl Chloride	4.7	2
	Water	CS04-MW01	FD	10/06/2001	ug/L	Vinyl Chloride	4.3	2
SS-003								
	Water	SS03-MW04	FD	10/03/2001	ug/L	Trichloroethylene	57.6	5
	Water	SS03-MW04	N	10/03/2001	ug/L	Trichloroethylene	55.2	5
	Water	SS03-MW07	N	10/03/2001	ug/L	Trichloroethylene	11	5
	Water	SS03-MW06	N	10/03/2001	ug/L	Trichloroethylene	9.6	5
SS-006								
	Water	SS06-MW20	N	10/02/2001	ug/L	cis-1,2-Dichloroethylene	132	70
	Water	SS06-MW20	FD	10/02/2001	ug/L	cis-1,2-Dichloroethylene	125	70
	Water	SS06-MW10	N	10/01/2001	ug/L	cis-1,2-Dichloroethylene	97.2	70
	Water	SS06-MW12	N	10/01/2001	ug/L	cis-1,2-Dichloroethylene	78.1	70
	Water	SS06-MW11	N	10/01/2001	ug/L	cis-1,2-Dichloroethylene	73.7	70
	Water	SS06-MW20	N	10/02/2001	ug/L	Trichloroethylene	930	5
	Water	SS06-MW20	FD	10/02/2001	ug/L	Trichloroethylene	859	5
	Water	SS06-MW05	N	10/01/2001	ug/L	Trichloroethylene	271	5

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Site	Media	Location	QAQC Type	Sample Date	Units	Analyte	Detected Concentration	Screening Level
SS-006								
	Water	SS06-MW10	N	10/01/2001	ug/L	Trichloroethylene	166	5
	Water	SS06-MW11	N	10/01/2001	ug/L	Trichloroethylene	141	5
	Water	SS06-MW15	N	10/01/2001	ug/L	Trichloroethylene	128	5
	Water	SS06-MW12	N	10/01/2001	ug/L	Trichloroethylene	86	5
	Water	SS06-MW14	N	10/01/2001	ug/L	Trichloroethylene	70.2	5
	Water	SS06-MW09	N	10/01/2001	ug/L	Trichloroethylene	30.3	5
	Water	SS06-MW09	FD	10/01/2001	ug/L	Trichloroethylene	25.9	5
	Water	SS06-MW13	N	10/01/2001	ug/L	Trichloroethylene	18	5
	Water	SS06-MW18	N	10/01/2001	ug/L	Trichloroethylene	16.9	5
	Water	SS06-MW20	N	10/02/2001	ug/L	Vinyl Chloride	18.1	2
	Water	SS06-MW20	FD	10/02/2001	ug/L	Vinyl Chloride	17	2
	Water	SS06-MW05	N	10/01/2001	ug/L	Vinyl Chloride	3.7	2
	Water	SS06-MW10	N	10/01/2001	ug/L	Vinyl Chloride	3.2	2
SS-009								
	Water	SS09-MW03	N	10/03/2001	ug/L	1,1-Dichloroethene	42.9	7
	Water	SS09-MW03	FD	10/03/2001	ug/L	1,1-Dichloroethene	41.7	7
	Water	SS09-MW03	N	10/03/2001	ug/L	cis-1,2-Dichloroethylene	171	70
	Water	SS09-MW03	FD	10/03/2001	ug/L	cis-1,2-Dichloroethylene	167	70
	Water	SS09-MW03	N	10/03/2001	ug/L	Tetrachloroethylene	15.8	5
	Water	SS09-MW03	FD	10/03/2001	ug/L	Tetrachloroethylene	14.8	5
	Water	SS09-MW03	FD	10/03/2001	ug/L	Trichloroethylene	19.2	5
	Water	SS09-MW03	N	10/03/2001	ug/L	Trichloroethylene	18.8	5
	Water	SS09-MW03	N	10/03/2001	ug/L	Vinyl Chloride	6 J	2
	Water	SS09-MW03	FD	10/03/2001	ug/L	Vinyl Chloride	4.8 J	2
	Water	SS09-MW09	N	10/03/2001	ug/L	Vinyl Chloride	3.4	2
ST-005								
	Water	ST05-MW18	N	10/09/2001	ug/L	Trichloroethylene	1160	5
	Water	ST05-MW14	N	10/09/2001	ug/L	Trichloroethylene	556	5
	Water	ST05-MW03	FD	10/09/2001	ug/L	Trichloroethylene	278	5
	Water	ST05-MW3	N	10/09/2001	ug/L	Trichloroethylene	243	5
	Water	ST05-MW12	N	10/09/2001	ug/L	Trichloroethylene	63.3	5
	Water	ST05-MW13	N	10/09/2001	ug/L	Trichloroethylene	55	5
	Water	ST05-MW20	N	10/09/2001	ug/L	Trichloroethylene	18.7	5
	Water	ST05-MW10	N	10/09/2001	ug/L	Trichloroethylene	10.3	5
	Water	ST05-MW10	FD	10/09/2001	ug/L	Trichloroethylene	9.9	5
	Water	ST05-MW21	N	10/09/2001	ug/L	Trichloroethylene	6.2	5
	Water	ST05-MW22	N	10/09/2001	ug/L	Trichloroethylene	5.3	5

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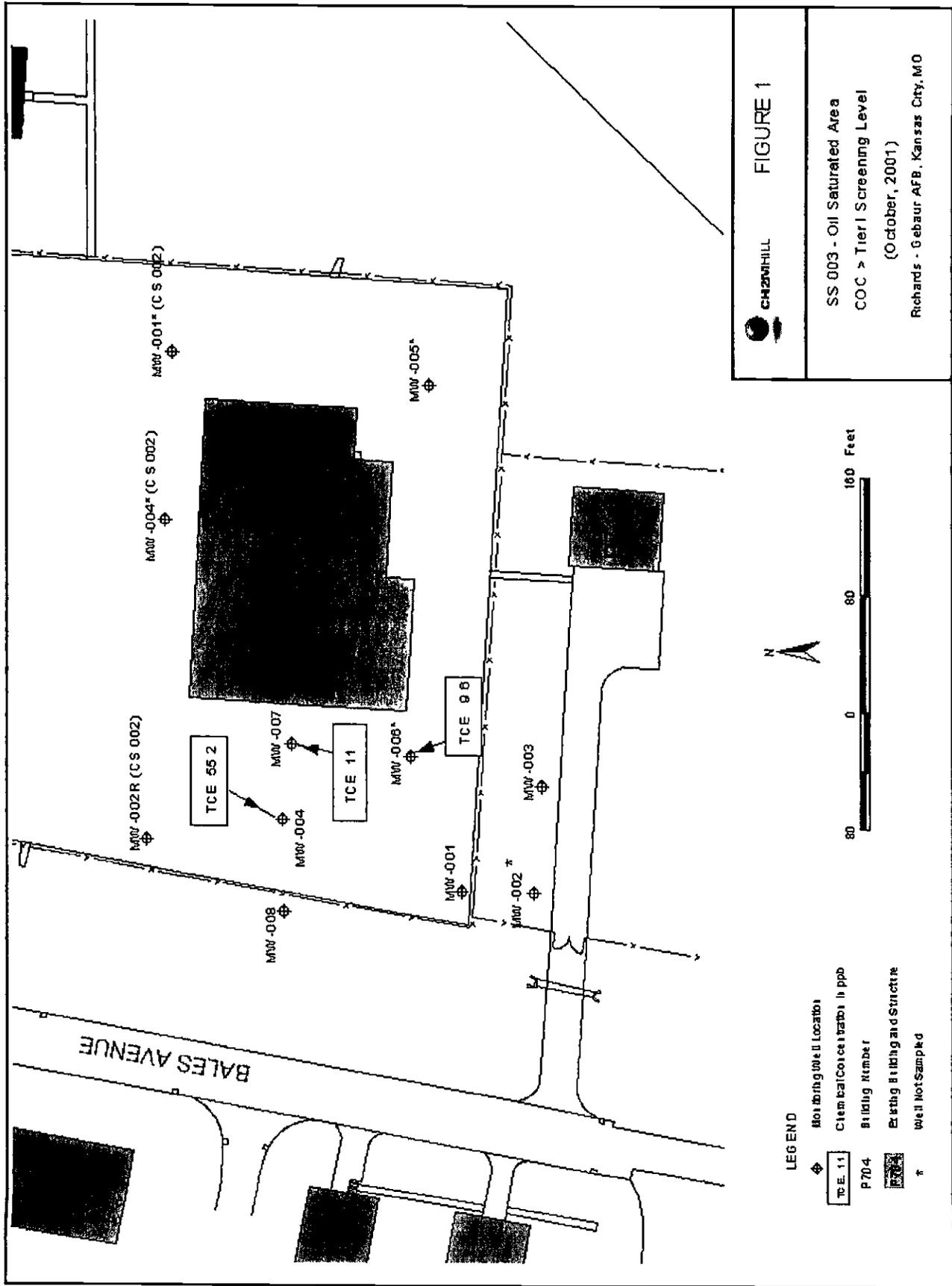
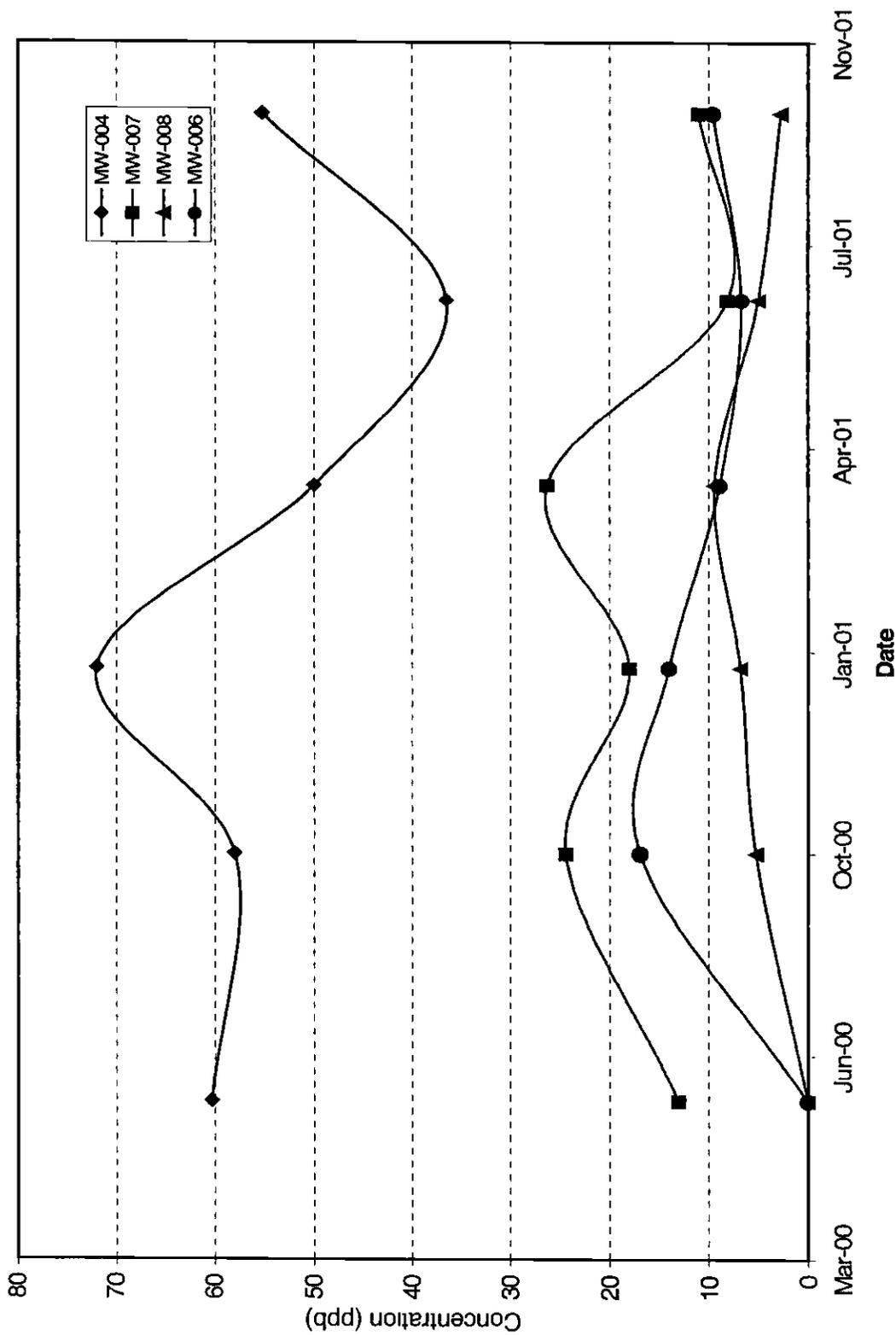
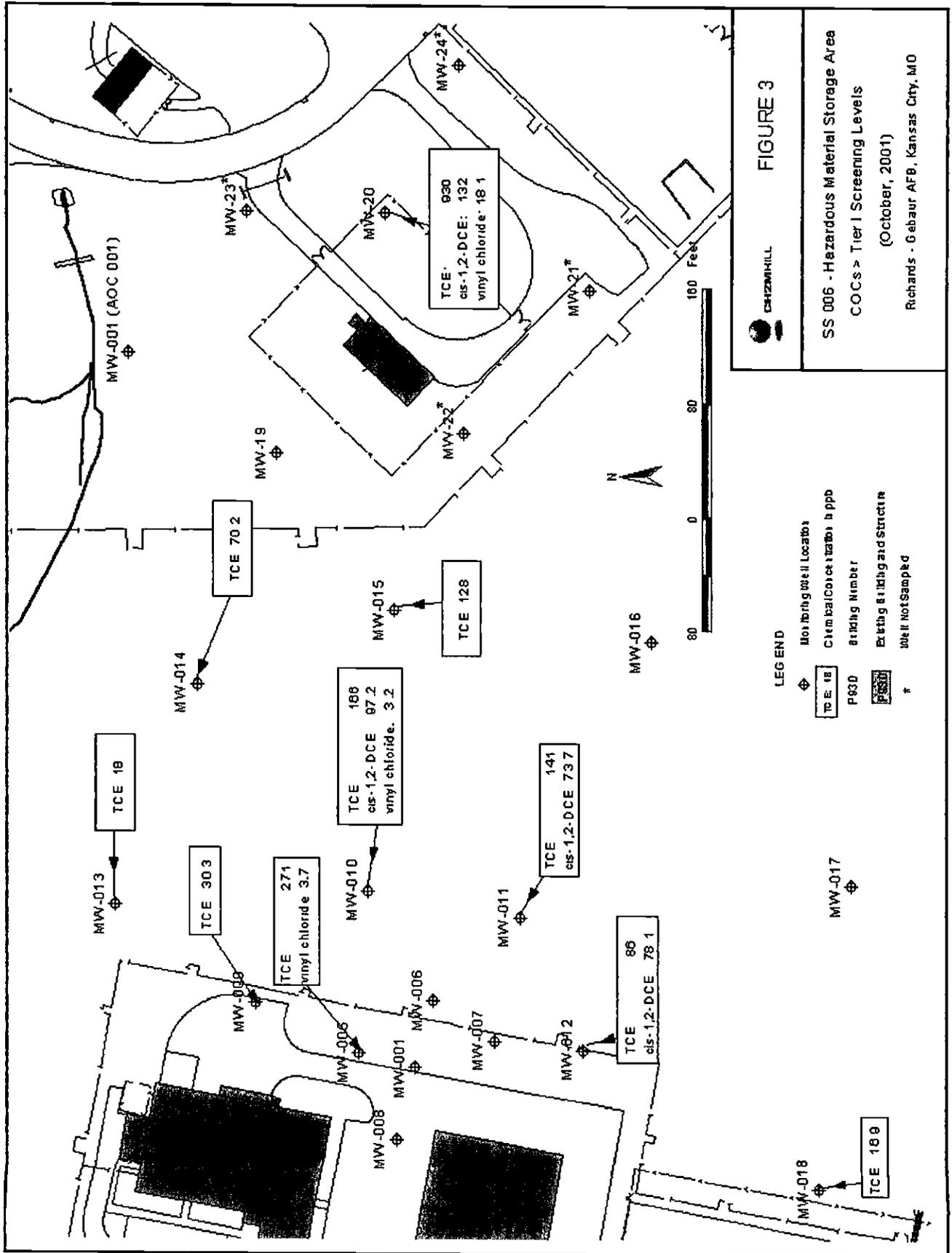


Figure 2: Temporal Trends of TCE in Groundwater at SS 003





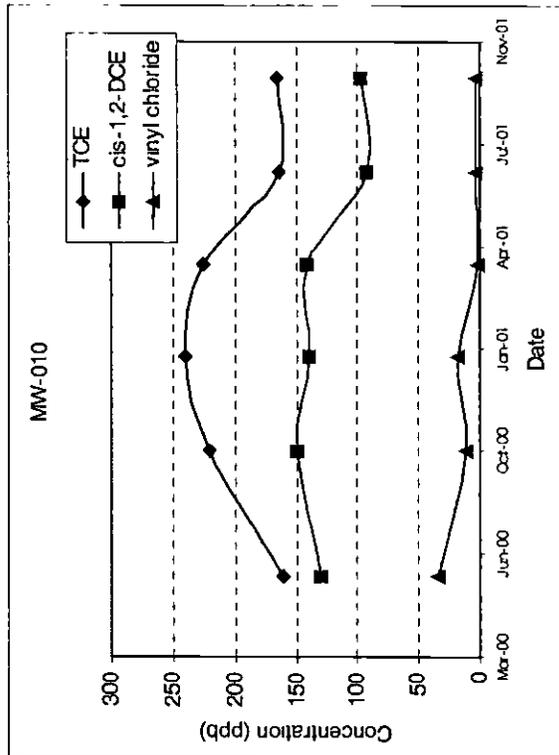
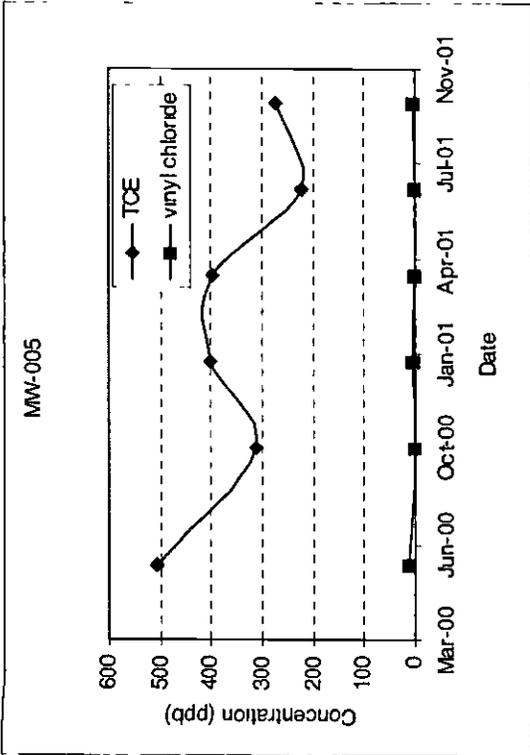
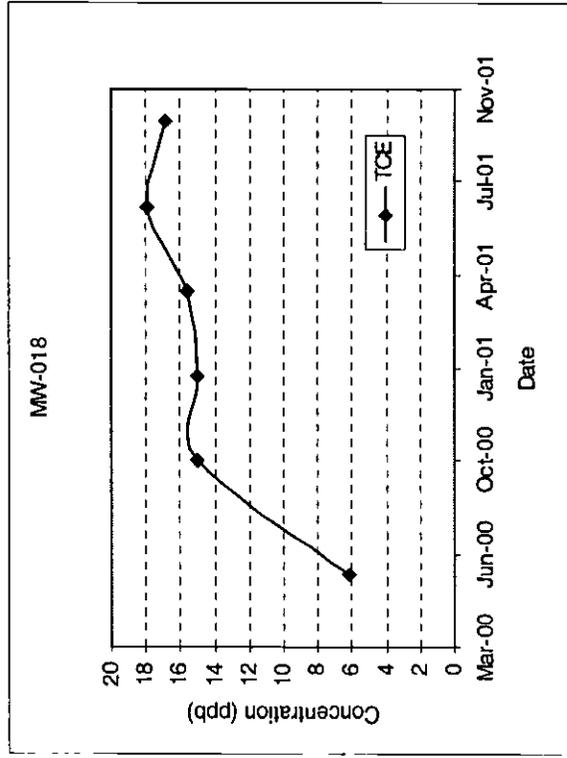
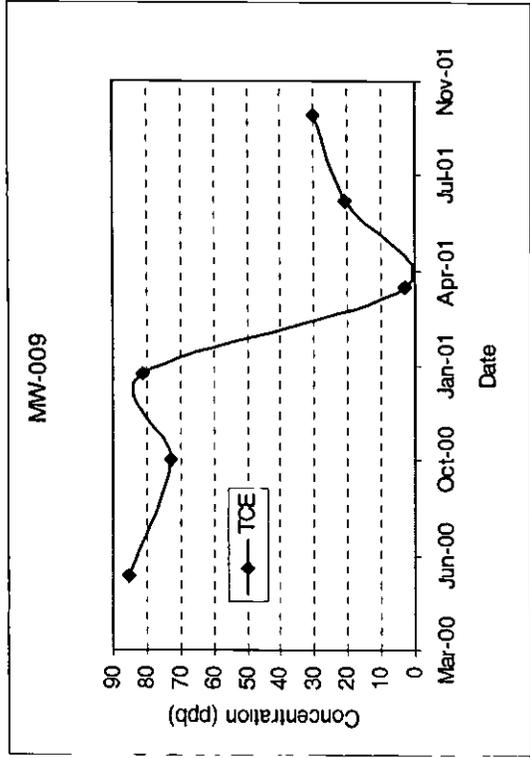


Figure 4. Temporal Trends of COCs in Gourdwater at SS 006

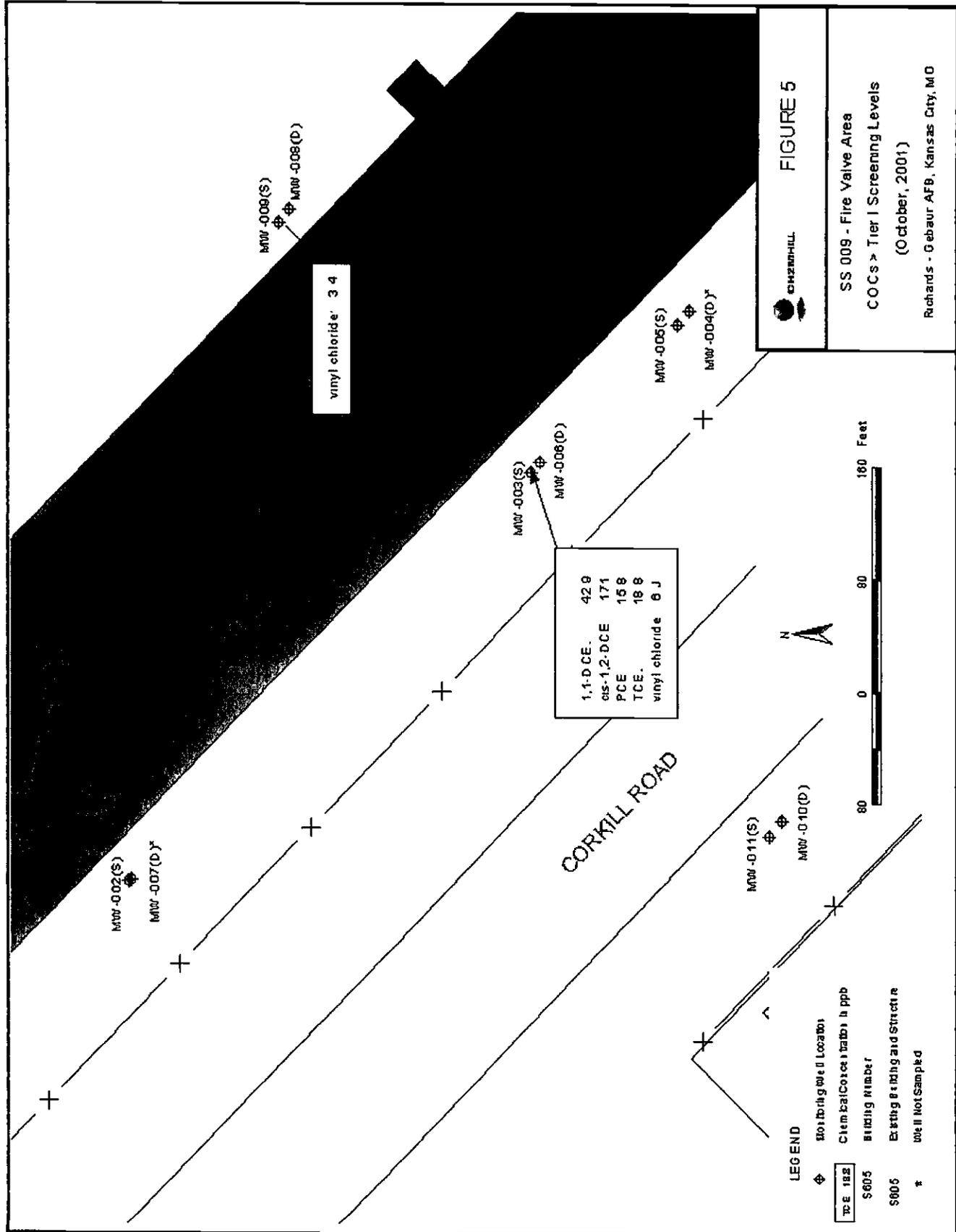
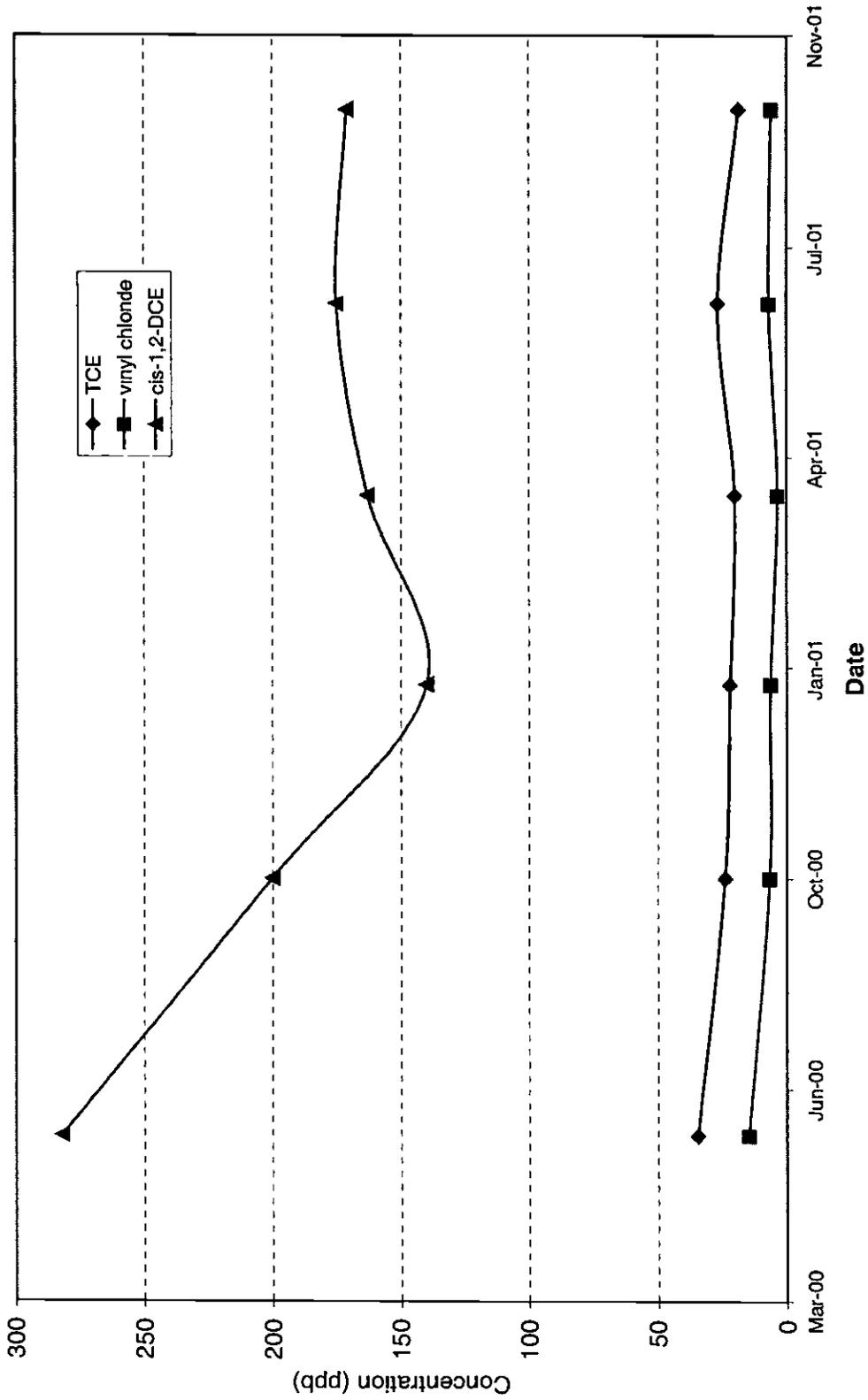


Figure 6: Temporal Trends of COCs in Groundwater at SS 009, MW-003



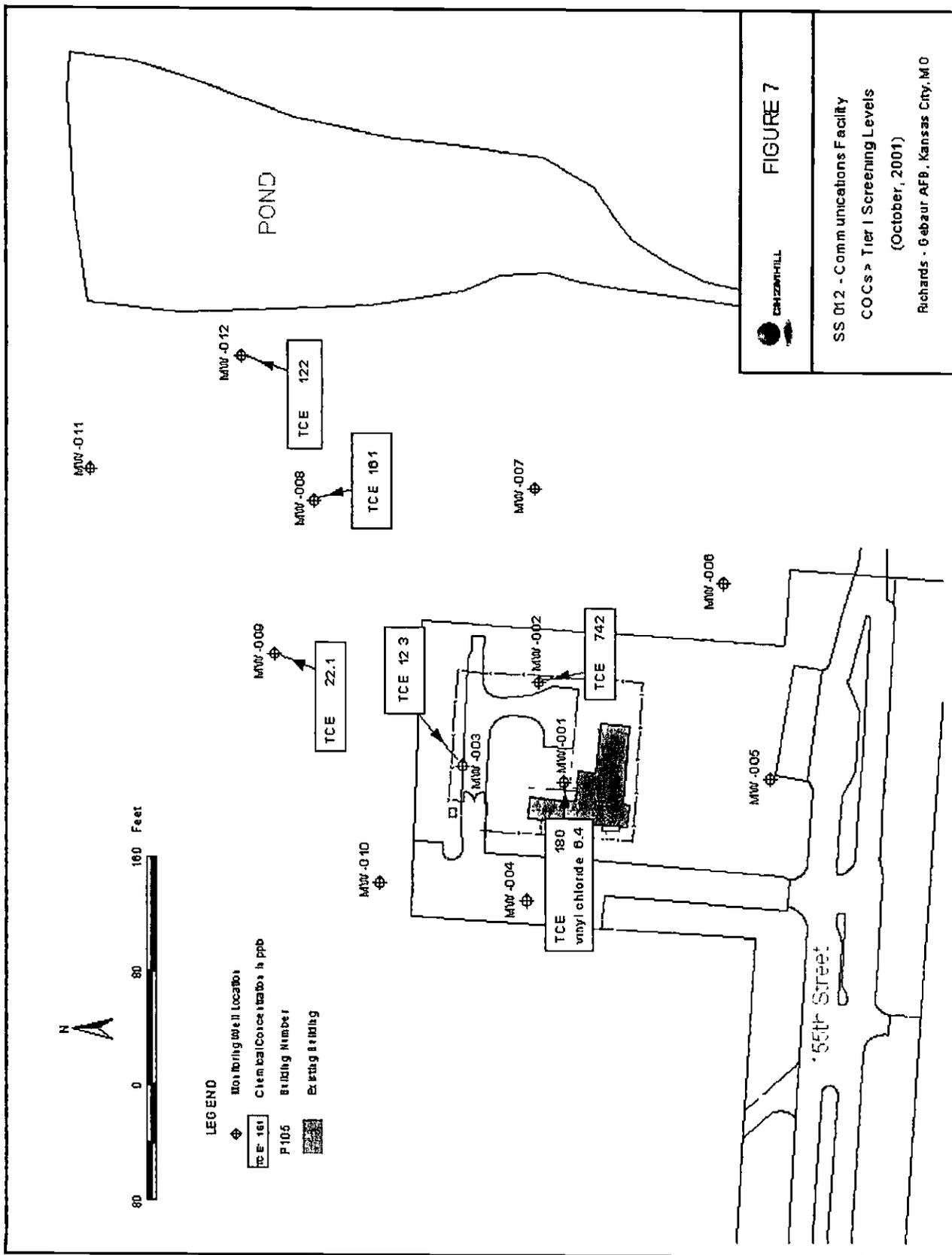
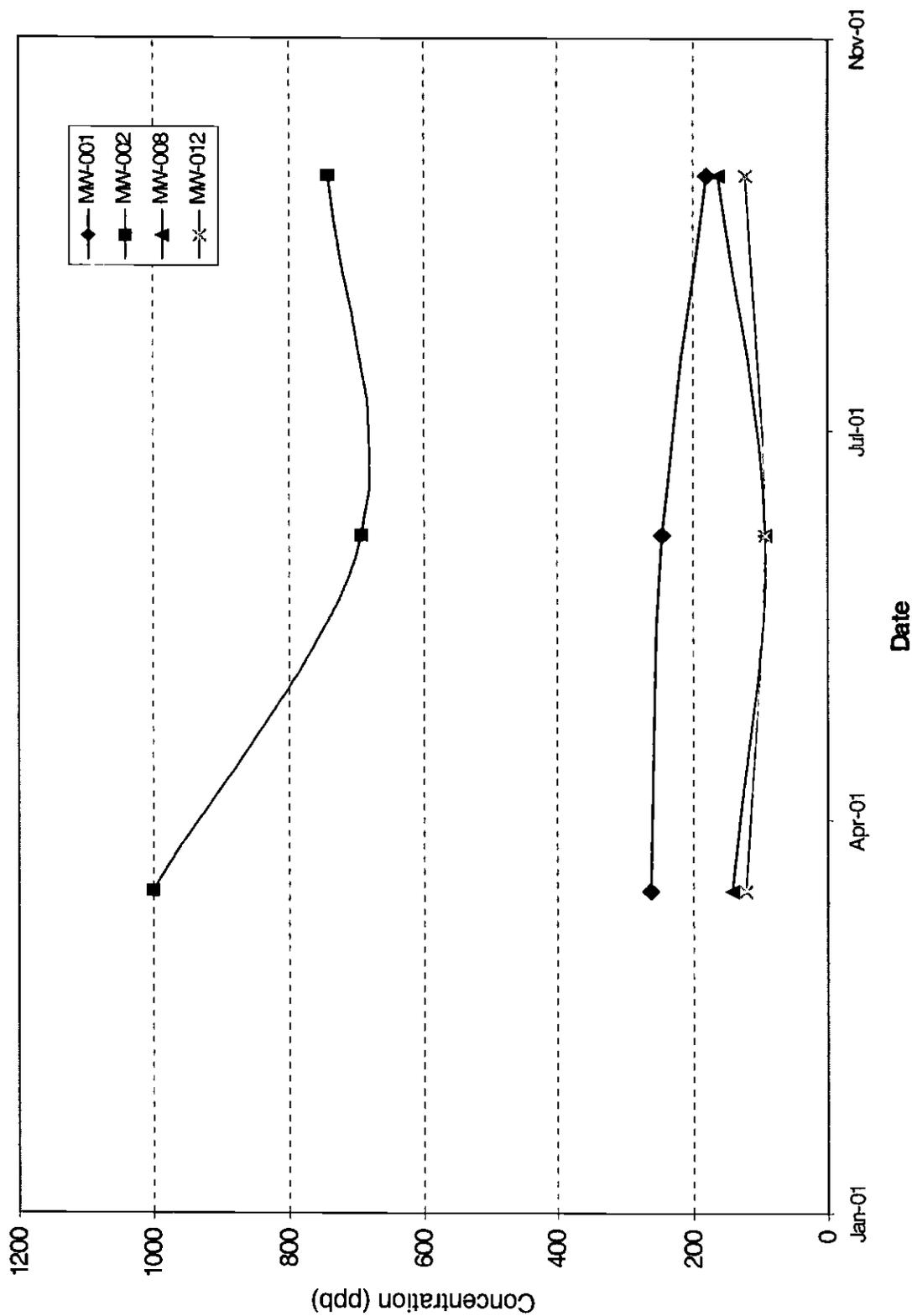
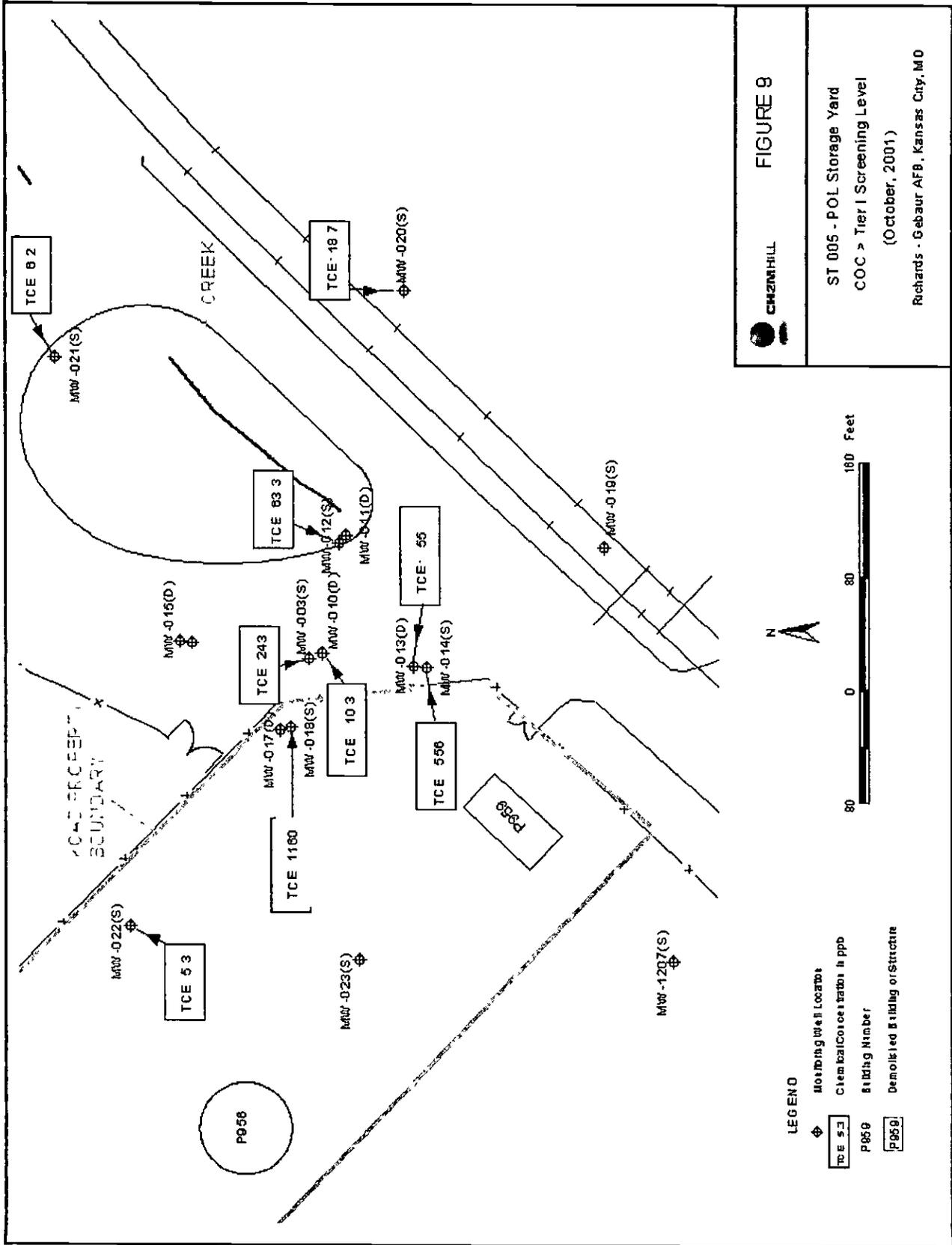


FIGURE 7

SS 012 - Communications Facility
 COCs > Tier I Screening Levels
 (October, 2001)
 Richards - Gebaur AFB, Kansas City, MO

Figure 8: Temporal Trend of TCE in Groundwater at SS 012 (Former Building 105)





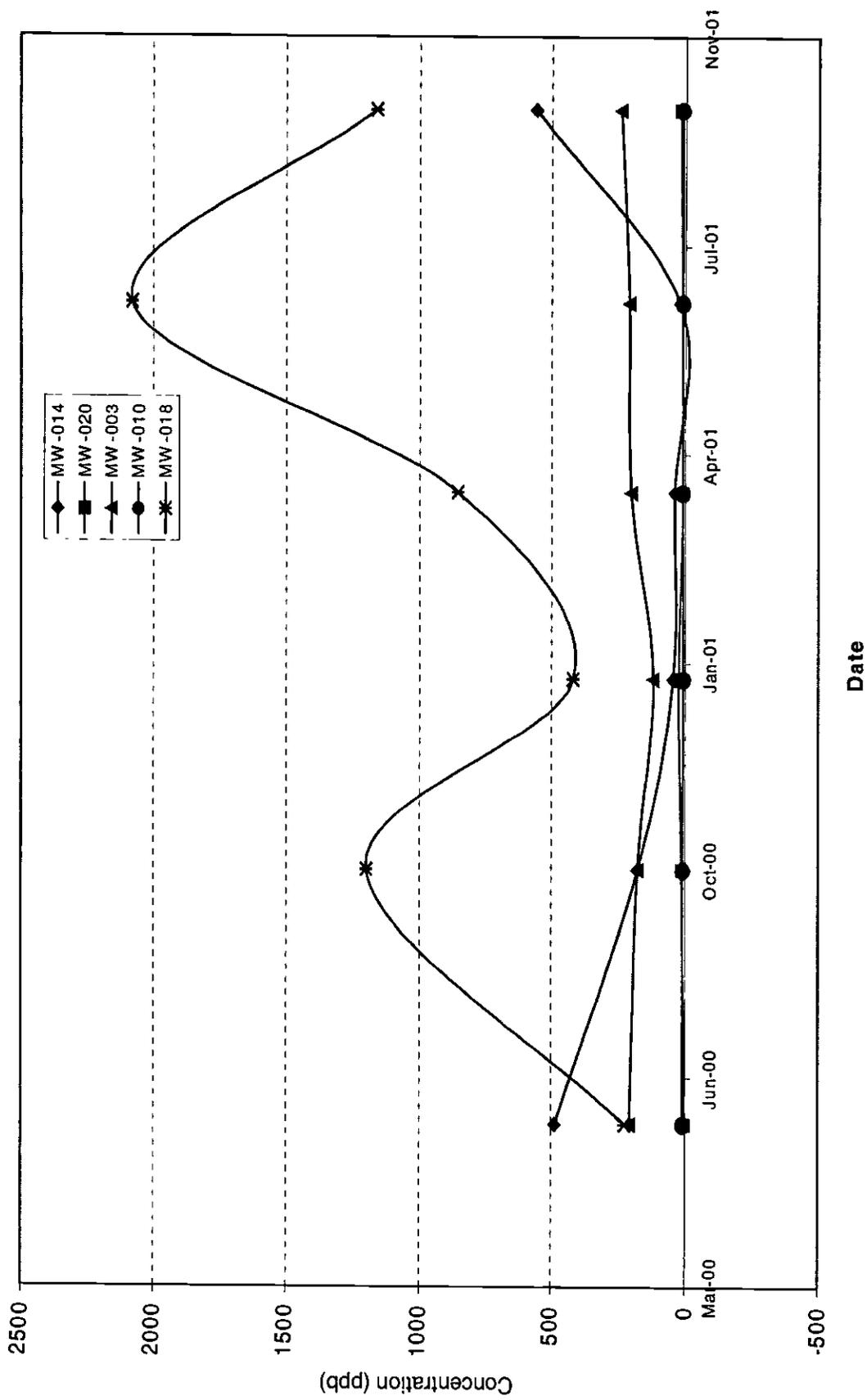
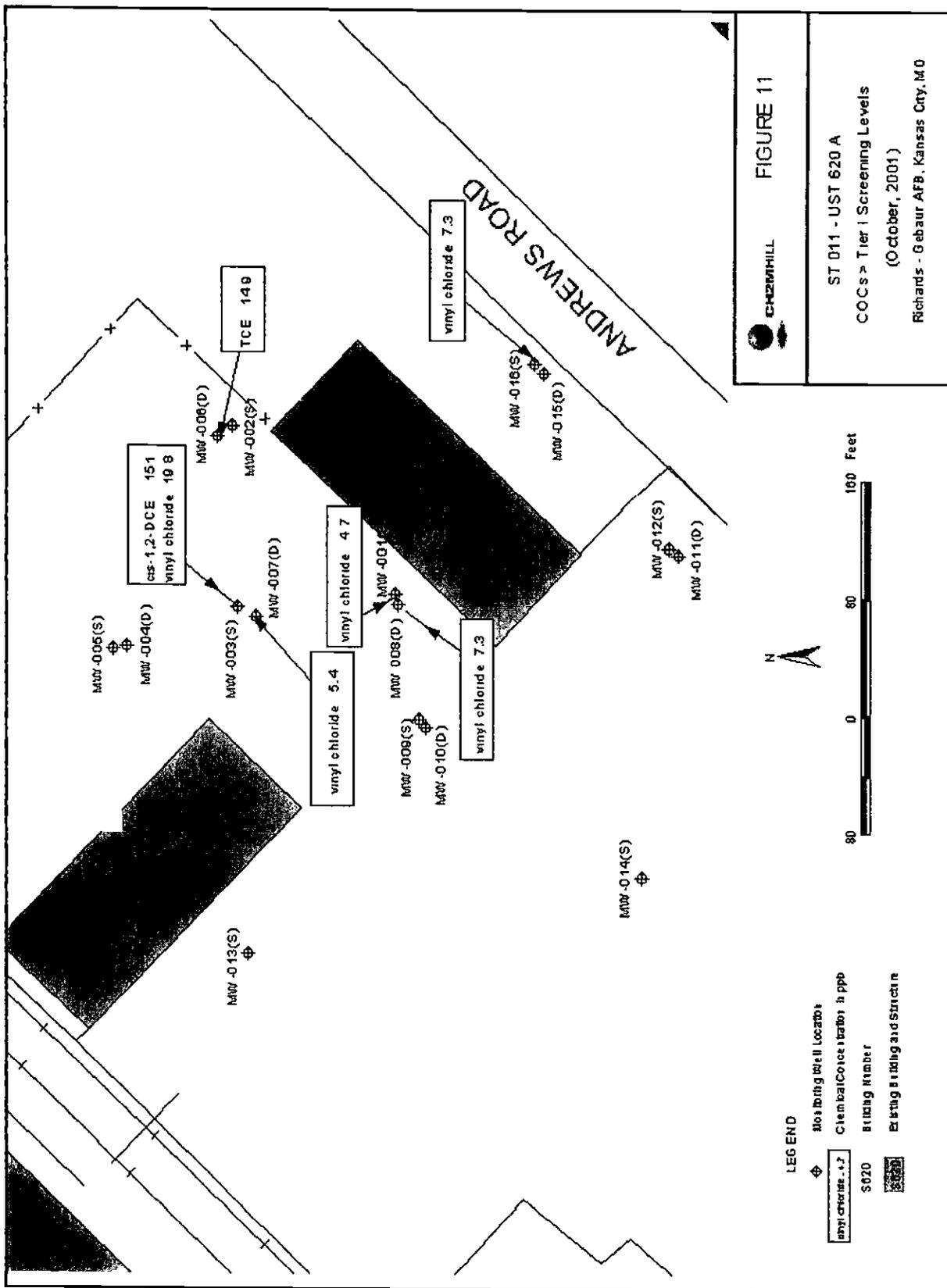


Figure 10. Temporal Trends of TCE in Groundwater at ST 005



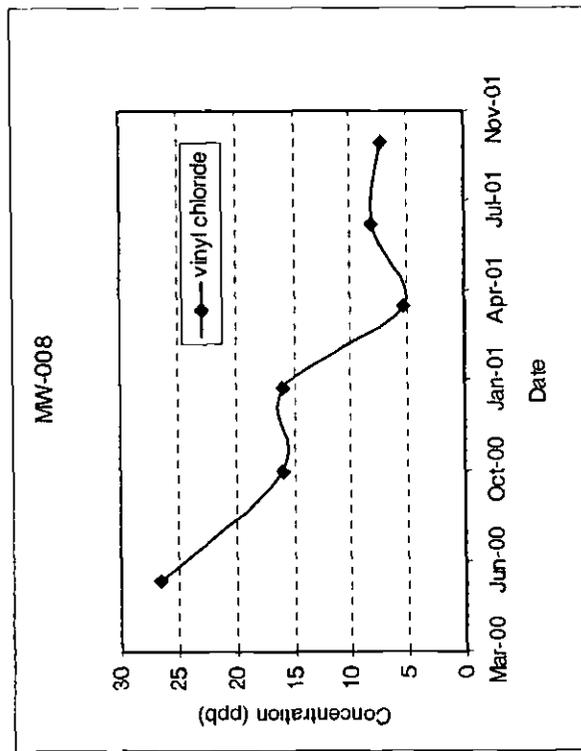
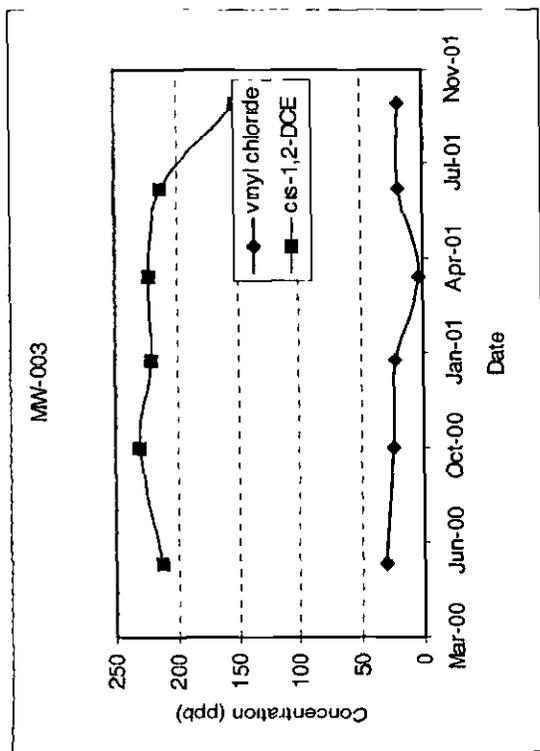
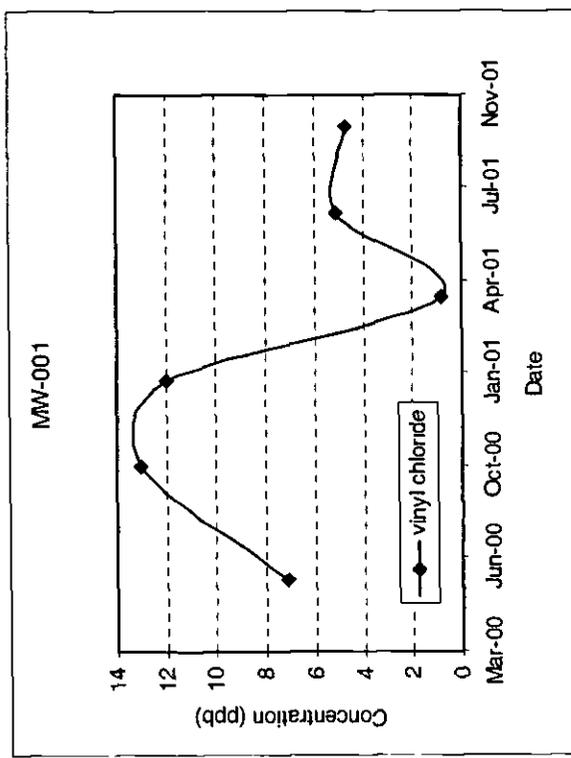
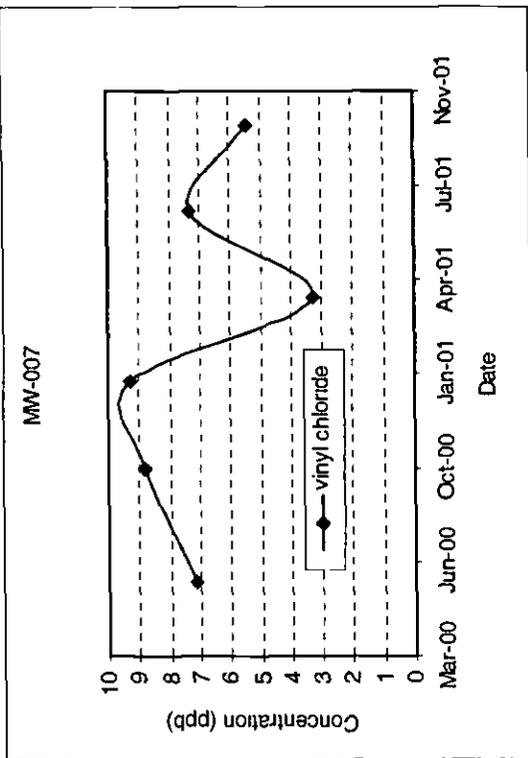


Figure 12. Temporal Trends of COCs in Groundwater at ST 011 (Former CS 004)