WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #1s

Parameter/Date	1-17	2-9	3-15	4-12	5-10	6-14									
pH (standard)	6.9	6.8	7.9	6.8	6.9	7.0									
Fe (mg/l)	0.22	0.10	0.07	0.05	0.05	0.06									
Mn (mg/l)	<0.05	<0.05	0.05	<0.05	<0.05	<0.05									
Zn (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05									
1,1-dichloroethane	<1	< 1	< 1	< 1	<1	<1									
1,2-dichloroethylene	<1	< 1	< 1	< 1	< 1	<1									
1,1-dichloroethylene															
Methylene chloride	<1	< 1	< 1	< 1	< 1	<1									
Tetrachloroethylene	3.8	1.1	< 1	1.5	< 1	< 1									
Trans-1,2-dichloroethylene				1.6	1.8	1.2									
1,1,1-trichloroethane	6.7	<1	< 1	< 1	< 1	< 1									
Trichloroethylene	1.5	<1	< 1	< 1	< 1	< 1									
1,1,2-trichloro-1,2,2-trifluoroethane	1.1	< 1	< 1	<1	<1	6.6									

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #1d

Parameter/Date	1-17	2-9	3-15	4-12	5-10	6-14
pH (standard)	11.9	11.3	8.4	7.7	7.8	7.8
Fe (mg/l)	0.06	<0.05	0.06	0.20	0.13	<0.05
Mn (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Zn (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1
1,2-dichloroethylene	<1	< 1	<1	< 1	< 1	< 1
1,1-dichloroethylene						
Methylene chloride	< 1	<1	< 1	< 1	< 1	< 1
Tetrachloroethylene	< 1	< 1	<1	< 1	< 1	< 1
Trans-1,2-dichloroethylene						
1,1,1-trichloroethane	< 1	< 1	<1	< 1	< 1	< 1
Trichloroethylene	<1	<1	< 1	<1	< 1	< 1
1,1,2-trichloro-1,2,2-trifluoroethane	< 1	< 1	< 1	< 1	< 1	2.4

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #2

Parameter/Date	1-17	2-9	3-15	4-12	5-10	6-14
pH (standard)	7.7	7.3	8.3	7.2	7.3	7.3
Fe (mg/l)	0.07	0.25	0.10	<0.05	<0.05	<0.05
Mn (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Zn (mg/l)	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05
1,1-dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1
1,2-dichloroethylene	< 1	< 1	< 1	< 1	< 1	< 1
1,1-dichloroethylene						
Methylene chloride	< 1	< 1	< 1	<1	< 1	< 1
Tetrachloroethylene	<1	< 1	< 1	< 1	< 1	< 1
Trans-1,2-dichloroethylene						
1,1,1-trichloroethane	<1	< 1	< 1	< 1	< 1	< 1
Trichloroethylene	< 1	< 1	< 1	< 1	<1	< 1
1,1,2-trichloro-1,2,2-trifluoroethane	< 1	< 1	< 1	< 1	< 1	< 1

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #3

Parameter/Date	1-17	2-9	3-15	4-12	5-10	6-14
pH (standard)	6.7	6.1	9.0	6.2	6.1	6.6
Fe (mg/l)	0.20	0.11	<0.05	<0.05	<0.05	<0.05
Mn (mg/l)	0.38	<0.05	<0.05	0.22	0.23	<0.05
Zn (mg/l)	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05
1,1-dichloroethane	720	60	<50	50	13	37
1,2-dichloroethylene	<100	< 25	<50	10	<10	<10
1,1-dichloroethylene				85	11	52
Methylene chloride	43	<25	< 50	16	25	17
Tetrachloroethylene	500	< 25	<50	23	<1	10
Trans-1,2-dichloroethylene				73	-	45
1,1,1-trichloroethane	19700	1200	370	880	110	560
Trichloroethylene	1970	190	50	170	16	100
1,1,2-trichloro-1,2,2-trifluoroethane	53500	5400	3200	3800	1140	2400

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #4

Parameter/Date	1-17	2-9	3-15	4-12	5-12	6-14
pH (standard)	7.1	7.0	7.4	6.9	7.0	7.0
Fe (mg/l)	0.20	0.08	<0.05	<0.05	<0.05	<0.06
Mn (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Zn (mg/l)	<0.05	0.05	<0.05	<0.05	<0.05	<0.05
1,1-dichloroethane	< 1	1.8	< 1	< 1	1.4	1.3
1,2-dichloroethylene	< 1	< 1	< 1	< 1	< 1	< 1
1,1-dichloroethylene						
Methylene chloride	2.1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	30	23	32	27	27	28
Trans-1,2-dichloroethylene					1.6	1.6
1,1,1-trichloroethane	4.4	2.4	2.1	1.9	2.9	3.1
Trichloroethylene	1.8	1.4	1.6	1.2	1.5	< 1
1,1,2-trichloro-1,2,2-trifluoroethane	4.3	< 1	<1	< 1	3.9	2.5

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #5

Parameter/Date	1-17	2-9	3-15	4-12	5-10	6-14
pH (standard)	7.2	7.1	7.4	7.2	7.3	7.2
Fe (mg/l)	0.31	0.21	0.24	0.07	0.05	0.10
Mn (mg/l)	0.21	0.34	<0.05	<0.05	<0.05	0.13
Zn (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-dichloroethane	8.9	7.0	2.2	1	1.7	1.7
1,2-dichloroethylene	<1	<1	< 1	< 1	< 1	< 1
1,1-dichloroethylene						
Methylene chloride	< 1	< 1	< 1	< 1	< 1	<1
Tetrachloroethylene	9.3	6.2	4.7	2.0	2.2	4.0
trans-1,2-dichloroethylene					1.0	1.2
1,1,1-trichloroethane	12	9.7	2.4	< 1	1.1	1.7
Trichloroethylene	1.5	< 1	< 1	< 1	< 1	< 1
1,1,2-trichloro-1,2,2-trifluoroethane	< 1	< 1	< 1	< 1	2.7	2.8

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #6

Parameter/Date	1-17	2-9	3-15	4-12	5-10	6-14
pH (standard)	7.3	8.5	7.7	7.1	7.2	7.3
Fe (mg/l)	0.38	0.13	0.10	<0.05	<0.05	0.23
Mn (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Zn (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-dichloroethane	< 1	<1	<1	< 1	< 1	< 1
1,2-dichloroethylene	<1	<1	< 1	< 1	< 1	< 1
1,1-dichloroethylene						
Methylene chloride	< 1	<1	< 1	< 1	< 1	< 1
Tetrachloroethylene	17	13	15	9.0	13	14
Trans-1,2-dichloroethylene						
1,1,1-trichloroethane	<1	<1	<1	< 1	<1	<1
Trichloroethylene	36	30	31	19	27	29
1,1,2-trichloro-1,2,2-trifluoroethane	17	9.7	14	12	15	10

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #7

Parameter/Date	1-17	2-9	3-15	4-12	5-10	6-14
pH (standard)	7.4	7.4	7.9	7.1	7.2	7.4
Fe (mg/l)	0.33	0.09	0.06	<0.05	<0.05	0.26
Mn (mg/l)	<0.05	<0.05	0.05	<0.05	<0.05	<0.05
Zn (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-dichloroethane	< 1	<1	< 1	< 1	< 1	< 1
1,2-dichloroethylene	< 1	< 1	< 1	< 1	<1	< 1
1,1-dichloroethylene						
Methylene chloride	< 1	< 1	< 1	< 1	<1	< 1
Tetrachloroethylene	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,2-dichloroethylene						
1,1,1-trichloroethane	1.2	< 1	< 1	< 1	< 1	1.7
Trichloroethylene	<1	< 1	< 1	< 1	< 1	< 1
1,1,2-trichloro-1,2,2-trifluoroethane	7.8	5.1	13	28	22	15

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #8

Parameter/Date	1-17	2-9	3-15	4-12	5-10	6-14
pH (standard)	Dry	Dry	7.5	6.9	7.2	7.3
Fe (mg/l)	Well	Well	<0.05	< 0.05	0.14	0.19
Mn (mg/l)			0.57	0.14	<0.05	<0.05
Zn (mg/l)			0.08	<0.05	<0.05	<0.05
1,1-dichloroethane			< 1	< 1	< 1	< 1
1,2-dichloroethylene			< 1	< 1	< 1	< 1
1,1-dichloroethylene						
Methylene chloride			< 1	3.4	< 1	< 1
Tetrachloroethylene			< 1	< 1	< 1	< 1
Trans-1,2-dichloroethylene						
1,1,1-trichloroethane			< 1	< 1	<1	< 1
Trichloroethylene			< 1	< 1	<1	< 1
1,1,2-trichloro-1,2,2-trifluoroethane			< 1	< 1	<1	< 1

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #9

Parameter/Date	1-17	2-9	3-15	4-12	5-10	6-14
pH (standard)	5.8	5.7	7.5	5.5	5.3	6.3
Fe (mg/l)	0.15	0.06	<0.05	<0.05	<0.05	<0.05
Mn (mg/l)	1.1	1.1	0.57	1.5	1.5	1.5
Zn (mg/l)	0.09	0.08	0.08	<0.05	<0.05	<0.05
1,1-dichloroethane	<1	<1	< 1	< 1	< 1	< 1
1,2-dichloroethylene	<1	<1	<1	< 1	< 1	<1
1,1-dichloroethylene						
Methylene chloride	<1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	35	<1	< 1	< 1	< 1	< 1
Trans-1,2-dichloroethylene						
1,1,1-trichloroethane	<1	<1	< 1	< 1	<1	<1
Trichloroethylene	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-trichloro-1,2,2-trifluoroethane	<1	<1	< 1	< 1	< 1	5.6

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #10

Parameter/Date	1-17	2-9	3-15	4-12	5-10	6-14
pH (standard)	6.4	6.3	7.3	6.4	6.5	6.5
Fe (mg/l)	0.24	0.12	<0.05	<0.05	<0.05	<0.05
Mn (mg/l)	0.88	0.66	0.70	0.41	0.41	0.52
Zn (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-dichloroethane	<50	<50	< 50	< 50	<50	< 50
1,2-dichloroethylene	<50	<50	< 50	< 50	<50	< 50
1,1-dichloroethylene						
Methylene chloride	<50	<50	<50	< 50	< 50	< 50
Tetrachloroethylene	< 50	<50	< 50	< 50	<50	< 50
Trans-1,2-dichloroethylene						
1,1,1-trichloroethane	< 50	< 50	< 50	<50	<50	< 50
Trichloroethylene	< 50	<50	<50	<50	<50	< 50
1,1,2-trichloro-1,2,2-trifluoroethane	370	340	1400	1700	790	930

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #11

Parameter/Date	1-17	2-9	3-15	4-12	5-10	6-14									
pH (standard)	7.3	7.2	6.7	7.1	7.4	7.2									
Fe (mg/l)	0.52	0.13	0.11	0.06	0.07	0.21									
Mn (mg/l)	0.11	0.05	< 0.05	<0.05	<0.05	0.14									
Zn (mg/l)	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05									
1,1-dichloroethane	< 1	< 1	< 1	< 1	<1	<1									
1,2-dichloroethylene	< 1	< 1	< 1	< 1	<1	< 1									
1,1-dichloroethylene															
Methylene chloride	< 1	< 1	< 1	< 1	< 1	<1									
Tetrachloroethylene	< 1	< 1	< 1	< 1	< 1	<1									
Trans-1,2-dichloroethylene															
1,1,1-trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1									
Trichloroethylene	< 1	< 1	< 1	< 1	< 1	< 1									
1,1,2-trichloro-1,2,2-trifluoroethane	< 1	< 1	< 1	< 1	< 1	2.2									

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

OBSERVATION WELL #12

Parameter/Date	1-17	2-9	3-15	4-12	5-10
pH (standard)	7.4	7.3	out	out	out
Fe (mg/l)	0.48	0.19	of	of	of
Mn (mg/l)	0.93	0.86	serv.	serv.	serv.
Zn (mg/l)	<0.05	<0.05			
1,1-dichloroethane	8.0	4.8			
1,2-dichloroethylene	<1	< 1			
1,1-dichloroethylene					
Methylene chloride	<1	< 1			
Tetrachloroethylene	<1	< 1			
Trans-1,2-dichloroethylene					
1,1,1-trichloroethane	51	27			
Trichloroethylene	<1	<1			
1,1,2-trichloro-1,2,2-trifluoroethane	23	11			

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS 1984

KNICELEY WELL

Parameter/Date	1-17	2-9	3-15	4-12	5-10	6-14
pH (standard)	7.6	7.9	6.7	7.5	7.8	7.7
Fe (mg/l)	0.12	0.08	0.07	0.08	0.05	0.47
Mn (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Zn (mg/l)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-dichloroethane	50	11	11	8.1	7.6	7.5
1,2-dichloroethylene	<1	< 1	< 1	<1	<1	<1
1,1-dichloroethylene				2.5	2.0	1.6
Methylene chloride	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethylene	57	13	5.7	4.0	1.1	2.5
Trans-1,2-dichloroethylene				7.7	6.9	5.1
1,1,1-trichloroethane	300	70	15	3.1	2.3	3.4
Trichloroethylene	35	6.5	1.1	< 1	< 1	< 1
1,1,2-trichloro-1,2,2-trifluoroethane	190	41	32	21	13	14

1. All Results in μ g/l unless noted.

WATER QUALITY ANALYSIS

ANDREASSEN 1984

Parameter Date	1-20	2-10	3-16	4-13	5-18
1,1-dichloroethane			1.4	2.2	2.9
1,2-dichloroethane					
1,1-dichloroethylene					1.5
Methylene chloride					
Tetrachloroethylene	2.1		6.6	14	16
Trans-1,2-dichloroethylene			1.8	3.8	5.2
1,1,1-trichloroethane	3.0		14	19	20
Trichloroethylene					1.7
1,1,2-trichloro-1,2,2-trifluoroethane	4.0	1.5	21	33	43
Vinyl chloride					
Notes	#2	#2	#2	#2	#2

1. All results in µg/l unless noted

2. All other 601 parameters <1µg/l

WATER QUALITY ANALYSIS

ANDREASSEN 1983

Parameter Date	6-28	Split	8-10	8-29	9-28	10-28	11-16	12-15
1,1-dichloroethane	2	1.2						
1,2-dichloroethane								
1,1-dichloroethylene								
Methylene chloride	5							
Tetrachloroethylene	11	11		1.2				
Trans-1,2-dichloroethylene	2							
1,1,1-trichloroethane	15	17						
Trichloroethylene	2	1.2						
1,1,2-trichloro-1,2,2-trifluoroethane	18	16	1.1					
Vinyl chloride								
Notes	#2	#2	#2	#2	#2	#2	#2	#2

1. All results in µg/l unless noted

2. All other 601 parameters <1µg/l

WATER QUALITY ANALYSIS

GIPPERT

Parameter / Date	9-11 82	6-28 83	Split	8-10 83	12-15 83	4-13 84
1,1-dichloroethane		1	1.1	1.1		
1,2-dichloroethane						
1,1-dichloroethylene						
Methylene chloride		4				
Tetrachloroethylene						
Trans-1,2-dichloroethylene						
1,1,1-trichloroethane						
Trichloroethylene						
1,1,2-trichloro-1,2,2-trifluoroethane			1.1	1.0		
Vinyl chloride						
Notes	#2	#2	#2	#2	#2	#2

1. All results in µg/l unless noted

2. All other 601 parameters <1µg/l

WATER QUALITY ANALYSIS

COLE 1983

Parameter Date	1-14	1-24	6-30	Split	8-10	8-29	9-28	11-16	12-15
1,1-dichloroethane			2.5	4	3.4	2.4			
1,2-dichloroethane									
1,1-dichloroethylene					1.6				
Methylene chloride									
Tetrachloroethylene		1	5.9	7	5.6	5.9	2.3		
Trans-1,2-dichloroethylene				6	4.4	2.9	1.0		
1,1,1-trichloroethane			14	12	12	6.1	2.7		
Trichloroethylene			3.5	5	2.9	1.7			
1,1,2-trichloro-1,2,2-trifluoroethane			4.5	2	5.7	3.2	2.3		
Vinyl chloride									
Notes	#2	#2	#2	#2	#2	#2	#2		

1. All results in µg/l unless noted

2. All other 601 parameters <1µg/l

WATER QUALITY ANALYSIS

COLE 1984

Parameter Date	1-20	2-10	3-16	4-13	5-18
1,1-dichloroethane	3.5	2.7	1.4	1.7	2.0
1,2-dichloroethane					
1,1-dichloroethylene	1.6	1.0			1.0
Methylene chloride		1.1		1.9	
Tetrachloroethylene		6.7	3.4	27	2.6
Trans-1,2-dichloroethylene	4.1	2.9	1.7	4.7	2.4
1,1,1-trichloroethane	6.9	5.3	3.5	9.6	5.0
Trichloroethylene		1.5		20	1.2
1,1,2-trichloro-1,2,2-trifluoroethane	3.2	2.6		7.5	5.1
Vinyl chloride					
Notes	#2	#2	#2	#2	#2

1. All results in µg/l unless noted

2. All other 601 parameters <1µg/l

WATER QUALITY ANALYSIS

HALEY - CUNNINGHAM 1983

Parameter Date	8-10	8-29	9-28
1,1-dichloroethane	2.2	2.0	1.4
1,2-dichloroethane			
1,1-dichloroethylene			
Methylene chloride			
Tetrachloroethylene	21	20	18
Trans-1,2-dichloroethylene	3.9	3.2	3.7
1,1,1-trichloroethane	11	7.6	9.6
Trichloroethylene	20	12	15
1,1,2-trichloro-1,2,2-trifluoroethane	6	4.1	5.7
Vinyl chloride			
Notes	#2	#2	#2

1. All results in µg/l unless noted

2. All other 601 parameters <1µg/l

WATER QUALITY ANALYSIS

HALEY - CUNNINGHAM 1984

Parameter Date	1-20	2-10	3-16	4-13	5-18
1,1-dichloroethane	4.1	3.3	2.2	1.7	2.0
1,2-dichloroethane					
1,1-dichloroethylene	1.6				1.1
Methylene chloride					
Tetrachloroethylene	25	23	22	25	24
Trans-1,2-dichloroethylene	7.3	5.4	5.3	4.7	4.8
1,1,1-trichloroethane	15	11	11	9.5	8.6
Trichloroethylene	14	13	13	20	18
1,1,2-trichloro-1,2,2-trifluoroethane	8.6	7.6	6.5	6.9	14
Vinyl chloride					
Notes	#2	#2	#2	#2	#2

1. All results in µg/l unless noted

2. All other 601 parameters <1µg/l