Pat R

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PRMT-SECTION

Monsanto

Monsanto Chemical Company
800 N. Lindbergh Boulevard
St. Louis, Missouri 63167
Phone: (314) 694-1000

February 23, 1994

Ms. Pat Reitz
U.S. Environmental Protection Agency
Region 7
WSTM Division/RCRA Branch
726 Minnesota Avenue
Kansas City, Kansas 66101

Re: Monsanto - J. F. Queeny Plant
RFI Phase II Groundwater Data

Dear Pat:

Enclosed are two copies of the data tables prepared by Geraghty & Miller which include the validated data from the November 1993 groundwater sampling at Queeny. As we have discussed, these tables include all the RFI groundwater data because we plan to include a discussion of all the data in the Phase II report. I believe Laurie Musiker has sent this data on a disk to Bill Gresham at Jacobs.

If you have any questions, please call me at 314-694-6127.

Sincerely,

Jo S. Hanson

Jo S. Hanson
Project Manager

bcc: C. G. Dorow/S. J. Henderson - 1760
J. P. Hyland*- F2EB
L. B. Musiker* - G & M
*no enclosure

R00105670
RCRA RECORDS CENTER
ACC #11

Table 4-5. Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	GM-1	GM-1	GM-2	GM-2	GM-3	GM-3
Laboratory Log Number:	33672-3	37211-9	33672-4	37211-8	33672-5	37211-7
Date Sampled:	6/4/91	11/1/91	6/4/91	11/1/91	6/4/91	11/1/91
Parameter (concentrations in ug/L)						
Acetonitrile	<500,000 I	<1,000,000 I	<500,000 I	<500,000 I	<250,000 I	<250,000 I
Acetone	<100,000	<200,000	<100,000	<100,000	<50,000	<50,000
Benzene	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Bromodichloromethane	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Bromomethane	<10,000	<20,000	<10,000	<10,000	<5,000	<5,000
Carbon disulfide	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Chlorobenzene	**140,000**	**280,000**	**72,000**	**140,000**	**52,000**	**49,000 J**
Dibromochloromethane	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Chloroethane	<10,000	<20,000	<10,000	<10,000	<5,000	<5,000
2-Chlorethylvinyl ether	<10,000	<20,000	<10,000	<10,000	<5,000	<5,000
Chloromethane	<10,000	<20,000	<10,000	<10,000	<5,000	<5,000
Chloroform	<5,000	<10,000	<5,000	<5000	<2,500	<2,500
3-Chloropropene (allylchloride)	<10,000	<20,000	<10,000	<10,000	<5,000	<5,000
1,2-Dibromo-3-chloropropane	<10,000	<20,000	<10,000	<10,000	<5,000	<5,000
Dibromoethane (EDB)	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Dibromomethane	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
trans-1,4-Dichloro-2-butene	<10,000	<20,000	<10,000	<10,000	<5,000	<5,000
Dichlorodifluoromethane	<50,000	<100,000	<50,000	<50,000	<25,000	<25,000
1,1-Dichloroethane	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
1,2-Dichloroethane	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
trans-1,2-Dichloroethene	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
1,1-Dichloroethene	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Methylene chloride	<5,000	**15,000 J**	<5,000	<5,000	<2,500	<2,500
1,2-Dichloropropane	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
cis-1,3-Dichloropropene	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
trans-1,3-Dichloropropene	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Ethyl benzene	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
2-Butanone (MEK)	<100,000 I	<200,000 I	<100,000 I	<100,000 I	<50,000 I	<50,000 I
Iodomethane	<5,000	<10,000	<5,000	<5,000	<25,000	<2,500
Methacrylonitrile	<100,000	<200,000	<100,000	<100,000	<50,000	<50,000
4-Methyl-2-pentanone (MIBK)	<50,000	<100,000	<50,000	<50,000	<25,000	<25,000
Pentachloroethane	<10,000 I	<20.000 I	<10,000 I	<10,000 I	<5,000 I	<5,000 I
Styrene	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
1,1,1,2-Tetrachloroethane	<5,000 I	<10,000 I	<5,000 I	<5,000 I	<2,500 I	<2,500 I
1,1,2,2-Tetrachloroethane	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Tetrachloroethene	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Carbon tetrachloride	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Toluene	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Bromoform	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
1,1,2-Trichloroethane	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
1,1,1-Trichloroethane	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Trichloroethene	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Trichlorofluoromethane	<10,000	<20,000	<10,000	<10,000	<5,000	<5,000
1,2,3-Trichloropropane	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Vinyl acetate	<50,000	<100,000	<50,000	<50,000	<25,000	<25,000
Vinyl chloride	<10,000	<20,000	<10,000	<10,000	<5,000	<5,000
Xylenes	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
2-Hexanone	<50,000	<100,000	<50,000	<50,000	<25,000	<25,000
Propionitrile	<100,000	<200,000 I	<100,000	<100,000 I	<50,000	<50,000 I
Methyl methacrylate	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Acrolein	<100,000 I	<200,000 I	<100,000 I	<100,000 I	<50,000 I	<50,000 I
Acrylonitrile	<100,000	<200,000	<100,000	<100,000	<50,000	<50,000
Ethyl methacrylate	<5,000	<10,000	<5,000	<5,000	<2,500	<2,500
Isobutyl alcohol	<1,000,000 I	<2,000,000 I	<1,000,000 I	<1,000,000 I	<500,000	<500,000 I
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.
NA Not analyzed.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-5. Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	GM-4	GM-4	GM-5	GM-5	MW-2A	MW-2A
Laboratory Log Number:	33672-6	37211-6	33672-7	37211-5	33733-3	37265-8
Date Sampled:	6/4/91	11/1/91	6/4/91	11/1/91	6/6/91	11/5/91
Parameter (concentrations in ug/L)						
Acetonitrile	<50,000 I	<5,000 I	<50,000 I	<50,000 I	<500 I	<500 I
Acetone	<10,000	<1,000	<10,000	<10,000	<100	<100
Benzene	<500	<50	<500	<500	<5.0	<5.0
Bromodichloromethane	<500	<50	<500	<500	<5.0	<5.0
Bromomethane	<1,000	<100	<1,000	<1,000	<10	<10
Carbon disulfide	<500	<50	<500	<500	<5.0	<5.0
Chlorobenzene	**990**	**1,700**	**11,000**	**8500/10000 J**	<5.0	<5.0
Dibromochloromethane	<500	<50	<500	<500	<5.0	<5.0
Chloroethane	<1,000	<100	<1,000	<1,000	<10	<10
2-Chlorethylvinyl ether	<1,000	<100	<1,000	<1,000	<10	<10
Chloromethane	<1,000	<100	<1,000	<1,000	<10	<10
Chloroform	<500	<50	<500	<500	<5.0	<5.0
3-Chloropropene (allylchloride)	<1,000	<100	<1,000	<1,000	<10	<10
1,2-Dibromo-3-chloropropane	<1,000	<100	<1,000	<1,000	<10	<10
Dibromoethane (EDB)	<500	<50	<500	<500	<5.0	<5.0
Dibromomethane	<500	<50	<500	<500	<5.0	<5.0
trans-1,4-Dichloro-2-butene	<1,000	<100	<1,000	<1,000	<10	<10
Dichlorodifluoromethane	<5,000	<500	<5,000	<5,000	<50	<50
1,1-Dichloroethane	<500	<50	<500	<500	<5.0	<5.0
1,2-Dichloroethane	<500	<50	<500	<500	<5.0	<5.0
trans-1,2-Dichloroethene	<500	<50	<500	<500	<5.0	<5.0
1,1-Dichloroethene	<500	<50	<500	<500	<5.0	<5.0
Methylene chloride	<500	<50	<500	<500	<5.0	<5.0
1,2-Dichloropropane	<500	<50	<500	<500	<5.0	<5.0
cis-1,3-Dichloropropene	<500	<50	<500	<500	<5.0	<5.0
trans-1,3-Dichloropropene	<500	<50	<500	<500	<5.0	<5.0
Ethyl benzene	<500	<50	<500	<500	<5.0	<5.0
2-Butanone (MEK)	<10,000 I	<1,000 I	<10,000 I	<10,000 I	<100 I	<100 I
Iodomethane	<500	<50	<500	<500	<5.0	<5.0
Methacrylonitrile	<10,000	<1,000	<10,000	<10,000	<100	<100
4-Methyl-2-pentanone (MIBK)	<5,000	<500	<5,000	<5,000	<50	<50
Pentachloroethane	<1,000 I	<100 I	<1,000 I	<1,000 I	<10 I	<10 I
Styrene	<500	<50	<500	<500	<5.0	<5.0
1,1,1,2-Tetrachloroethane	<500 I	<50 I	<500 I	<500 I	<5.0 I	<5.0 I
1,1,2,2-Tetrachloroethane	<500	<50	<500	<500	<5.0	<5.0
Tetrachloroethene	<500	<50	<500	<500	<5.0	<5.0
Carbon tetrachloride	<500	<50	<500	<500	<5.0	<5.0
Toluene	<500	<50	<500	<500	<5.0	<5.0
Bromoform	<500	<50	<500	<500	<5.0	<5.0
1,1,2-Trichloroethane	<500	<50	<500	<500	<5.0	<5.0
1,1,1-Trichloroethane	<500	<50	<500	<500	<5.0	<5.0
Trichloroethene	<500	<50	<500	<500	<5.0	<5.0
Trichlorofluoromethane	<1,000	<100	<1,000	<1,000	<10	<10
1,2,3-Trichloropropane	<500	<50	<500	<500	<5.0	<5.0
Vinyl acetate	<5,000	<500	<5,000	<5,000	<50	<50
Vinyl chloride	<1,000	<100	<1,000	<1,000	<10	<10
Xylenes	<500	<50	<500	<500	<5.0	<5.0
2-Hexanone	<5,000	<500	<5,000	<5,000	<50	<50
Propionitrile	<10,000	<1,000 I	<10,000	<10,000 I	<100	<100 I
Methyl methacrylate	<500	<50	<500	<500	<5.0	<5.0
Acrolein	<10,000	<1,000 I	<10,000 I	<10,000 I	<100 I	<100 I
Acrylonitrile	<10,000	<1,000	<10,000	<10,000	<100	<100
Ethyl methacrylate	<500	<50	<500	<500	<5.0	<5.0
Isobutyl alcohol	<100,000 I	<10,000 I	<100,000 I	<100,000 I	<1,000 I	<1,000 I
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.
NA Not analyzed.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-5. Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-2B	MW-2B	MW-2R	MW-2R	MW-3	MW-3
Laboratory Log Number:	33733-4	37265-9	32911-1	37265-5	33805-2	37265-1
Date Sampled:	6/6/91	11/5/91	4/25/91	11/5/91	6/11/91	11/5/91
Parameter (concentrations in ug/L)						
Acetonitrile	<500 I	<500 I	<500 I	<500 I	<5,000 I	<25,000 I
Acetone	<100	<100	<100	<100	<1,000	<5,000
Benzene	<5.0	<5.0	<5.0	<5.0	<50	<250
Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	<50	<250
Bromomethane	<10	<10	<10	<10	<100	<500
Carbon disulfide	<5.0	<5.0	<5.0	<5.0	<50	<250
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	**840**	**1,300**
Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	<50	<250
Chloroethane	<10	<10	<10	<10	<100	<500
2-Chlorethylvinyl ether	<10	<10	<10	<10	<100	<500
Chloromethane	<10	<10	<10	<10	<100	<500
Chloroform	<5.0	<5.0	<5.0	<5.0	<50	<250
3-Chloropropene (allylchloride)	<10	<10	<10	<10	<100	<500
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	<100	<500
Dibromoethane (EDB)	<5.0	<5.0	<5.0	<5.0	<50	<250
Dibromomethane	<5.0	<5.0	<5.0	<5.0	<50	<250
trans-1,4-Dichloro-2-butene	<10	<10	<10	<10	<100 I	<500
Dichlorodifluoromethane	<50	<50	<50	<50	<500	<2,500
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<50	<250
1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<50	<250
trans-1,2-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<50	<250
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<50	<250
Methylene chloride	<5.0	<5.0	<5.0	<5.0	<50	<250
1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	<50	<250
cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	<50	<250
trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	<50	<250
Ethyl benzene	<5.0	<5.0	<5.0	<5.0	<50	<250
2-Butanone (MEK)	<100 I	<100 I	<100 I	<100 I	<1,000 I	<5,000 I
Iodomethane	<5.0	<5.0	<5.0	<5.0	<50	<250
Methacrylonitrile	<100	<100	<100	<100	<1,000	<5,000
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	<500	<2,500
Pentachloroethane	<10 I	<10 I	<10 I	<10 I	<100 I	<500 I
Styrene	<5.0	<5.0	<5.0	<5.0	<50	<250
1,1,1,2-Tetrachloroethane	<5.0 I	<5.0 I	<5.0 I	<5.0 I	<50 I	<250 I
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<50	<250
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	**97**	**380**
Carbon tetrachloride	<5.0	<5.0	<5.0	<5.0	<50	<250
Toluene	<5.0	<5.0	<5.0	<5.0	<50	<250
Bromoform	<5.0	<5.0	<5.0	<5.0	<50	<250
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<50	<250
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<50	<250
Trichloroethene	<5.0	<5.0	<5.0	<5.0	**510**	**570**
Trichlorofluoromethane	<10	<10	<10	<10	<100	<500
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	<50	<250
Vinyl acetate	<50	<50	<50	<50	<500	<2,500
Vinyl chloride	<10	<10	<10	<10	<100	<5,000
Xylenes	<5.0	<5.0	<5.0	<5.0	<50	<250
2-Hexanone	<50	<50	<50	<50	<500	<2,500
Propionitrile	<100	<100 I	<100	<100 I	<1,000	<5,000 I
Methyl methacrylate	<5.0	<5.0	<5.0	<5.0	<50	<250
Acrolein	<100 I	<100 I	<100	<100 I	<1,000	<5,000 I
Acrylonitrile	<100	<100	<100	<100	<1,000	<5,000
Ethyl methacrylate	<5.0	<5.0	<5.0	<5.0	<50	<250
Isobutyl alcohol	<1,000 I	<1,000 I	<1,000	<1,000 I	<10,000 I	<50,000 I
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.
NA Not analyzed.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-5. Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-3	MW-4	MW-4	MW-8A	MW-8A Dup	MW-8A
Laboratory Log Number:	46405-22	33805-4	37166-1	33748-3	33748-4	37146-5
Date Sampled:	11/10/93	6/11/91	10/30/91	6/7/91	6/7/91	10/29/91
Parameter (concentrations in ug/L)						
Acetonitrile	<12000	<5,000 I	<2,500 I	<100,000 I	<100,000 I	<100,000 I
Acetone	<2500	<1,000	<500	<20,000	<20,000	<20,000
Benzene	<120	<50	<25	<1,000	<1,000	<1,000
Bromodichloromethane	<120	<50	<25	<1,000	<1,000	<1,000
Bromomethane	<250	<100	<50	<2,000	<2,000	<2,000
Carbon disulfide	<120	<50	<25	<1,000	<1,000	<1,000
Chlorobenzene	**640**	**880**	**760**	**17,000**	**17,000**	**16,000**
Dibromochloromethane	<120	<50	<25	<1,000	<1,000	<1,000
Chloroethane	<250	<100	<50	<2,000	<2,000	<2,000
2-Chlorethylvinyl ether	<250	<100	<50	<2,000	<2,000	<2,000 I
Chloromethane	<250	<100	<50	<2,000	<2,000	<2,000
Chloroform	<120	<50	<25	<1,000	<1,000	<1,000
3-Chloropropene (allylchloride)	<250	<100	<50	<2,000	<2,000	<2,000
1,2-Dibromo-3-chloropropane	<250	<100	<50	<2,000	<2,000	<2,000
Dibromoethane (EDB)	<120	<50	<25	<1,000	<1,000	<1,000
Dibromomethane	<120	<50	<25	<1,000	<1,000	<1,000
trans-1,4-Dichloro-2-butene	<250 I	<100 I	<50	<2,000	<2,000	<2,000
Dichlorodifluoromethane	<1200	<500	<250	<10,000	<10,000	<10,000
1,1-Dichloroethane	<120	<50	<25	<1,000	<1,000	<1,000
1,2-Dichloroethane	<120	<50	<25	<1,000	<1,000	<1,000
trans-1,2-Dichloroethene	<120	<50	<25	<1,000	<1,000	<1,000
1,1-Dichloroethene	<120	<50	<25	<1,000	<1,000	<1,000
Methylene chloride	<120	<50	<25	<1,000	<1,000	<1,000
1,2-Dichloropropane	<120	<50	<25	<1,000	<1,000	<1,000
cis-1,3-Dichloropropene	<120	<50	<25	<1,000	<1,000	<1,000
trans-1,3-Dichloropropene	<120	<50	<25	<1,000	<1,000	<1,000
Ethyl benzene	<120	<50	<25	<1,000	<1,000	<1,000
2-Butanone (MEK)	<2500	<1,000 I	<500 I	<20,000 I	<20,000 I	<20,000 I
Iodomethane	<120	<50	<25	<1,000	<1,000	<1,000
Methacrylonitrile	<2500	<1,000	<500	<20,000	<20,000	<20,000
4-Methyl-2-pentanone (MIBK)	<1200	<500	<25 I	<10,000	<10,000	<10,000
Pentachloroethane	<250	<100 I	<500 I	<2000 I	<2000 I	<2000 I
Styrene	<120	<50	<250	<1,000	<1,000	<1,000
1,1,1,2-Tetrachloroethane	<120	<50 I	<25 I	<1,000 I	<1,000 I	<1,000 I
1,1,2,2-Tetrachloroethane	<120	<50	<25	<1,000	<1,000	<1,000
Tetrachloroethene	**560**	<50	<25	<1,000	<1,000	<1,000
Carbon tetrachloride	<120	<50	<25	<1,000	<1,000	<1,000
Toluene	<120	<50	<25	<1,000	<1,000	<1,000
Bromoform	,120	<50	<25	<1,000	<1,000	<1,000
1,1,2-Trichloroethane	<120	<50	<25	<1,000	<1,000	<1,000
1,1,1-Trichloroethane	<120	<50	<25	<1,000	<1,000	<1,000
Trichloroethene	**420**	<50	<25	<1,000	<1,000	<1,000
Trichlorofluoromethane	<250	<100	<50	<2,000	<2,000	<2,000
1,2,3-Trichloropropane	<120	<50	<25	<1,000	<1,000	<1,000
Vinyl acetate	<250	<500	<250	<10,000	<10,000	<10,000
Vinyl chloride	<250	<100	<50	<2,000	<2,000	<2,000
Xylenes	<120	<50	<25	<1,000	<1,000	<1,000
2-Hexanone	<1200	<500	<250	<10,000	<10,000	<10,000
Propionitrile	<2500	<1,000	<500 I	<20,000	<20,000	<20,000 I
Methyl methacrylate	<120	<50	<25	<1,000	<1,000	<1,000
Acrolein	<2500 I	<1,000	<500 I	<20,000	<20,000	<20,000 I
Acrylonitrile	<2500	<1,000	<500	<20,000	<20,000	<20,000
Ethyl methacrylate	<120	<50	<25	<1,000	<1,000	<1,000
Isobutyl alcohol	<25000 I	<10,000 I	<5,000 I	<200,000 I	<200,000 I	<200,000 I
1,1,2-Trichloro-1,2,2-trifluoroethane	<250	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	**770**	NA	NA	NA	NA	NA

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.
NA Not analyzed.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-5. Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-8A	MW-8B	MW-8B Dup	MW-8B	MW-8B Rep	MW-8R
Laboratory Log Number:	46405-20	33748-5	33748-6	37146-4	37146-7	37146-3
Date Sampled:	11/10/93	6/7/91	6/7/91	10/29/91	10/29/91	10/29/91
Parameter (concentrations in ug/L)						
Acetonitrile	<100000	<500 I	<500 I	<500 I	<500 I	<500 I
Acetone	<20000	**110 J**	**120 J**	<100	<100	<100
Benzene	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	<2000	<10	<10	<10	<10	<10
Carbon disulfide	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	**19,000**	<5.0	<5.0	<5.0	<5.0	**11**
Dibromochloromethane	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	<2000	<10	<10	<10	<10	<10
2-Chlorethylvinyl ether	<2000	<10	<10	<10 I	<10 I	<10 I
Chloromethane	<2000	<10	<10	<10	<10	<10
Chloroform	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
3-Chloropropene (allylchloride)	<2000	<10	<10	<10	<10	<10
1,2-Dibromo-3-chloropropane	<2000	<10	<10	<10	<10	<10
Dibromoethane (EDB)	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	<2000 I	<10	<10	<10	<10	<10
Dichlorodifluoromethane	<10000	<50	<50	<50	<50	<50
1,1-Dichloroethane	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene chloride	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl benzene	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	<20000	<100 I	<100 I	<100 I	<100 I	<100 I
Iodomethane	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Methacrylonitrile	<20000	<100	<100	<100	<100	<100
4-Methyl-2-pentanone (MIBK)	<10000	<50	<50	<50	<50	<50
Pentachloroethane	<2000	<10 I	<10 I	<10 I	<10 I	<10 I
Styrene	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1,2-Tetrachloroethane	<1000	<5.0 I	<5.0 I	<5.0 I	<5.0 I	<5.0 I
1,1,2,2-Tetrachloroethane	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	<2000	<10	<10	<10	<10	<10
1,2,3-Trichloropropane	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl acetate	<2000	<50	<50	<50	<50	<50
Vinyl chloride	<2000	<10	<10	<10	<10	<10
Xylenes	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	<10000	<50	<50	<50	<50	<50
Propionitrile	<20000	<100	<100	<100 I	<100 I	<100 I
Methyl methacrylate	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Acrolein	<20000 I	<100 I	<100	<100 I	<100 I	<100 I
Acrylonitrile	<20000	<100	<100	<100	<100	<100
Ethyl methacrylate	<1000	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl alcohol	<200000 I	<1,000	<1,000 I	<1,000 I	<1,000 I	<1,000 I
1,1,2-Trichloro-1,2,2-trifluoroethane	<2000	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	<1000	NA	NA	NA	NA	NA

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.
NA Not analyzed.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-5. Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-8R Rep	MW-9	MW-9	MW-10	MW-10	MW-11A
Laboratory Log Number:	37146-8	33748-1	37181-6	33780-1	37166-2	33780-2
Date Sampled:	10/29/91	6/7/91	10/31/91	6/10/91	10/30/91	6/10/91
Parameter (concentrations in ug/L)						
Acetonitrile	<500 I	<500 I	<500 I	<500 I	<500 I	<500 I
Acetone	<100	<100	<100	<100	<100	<100
Benzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	<10	<10	<10	<10	<10	<10
Carbon disulfide	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	**6.5**	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	<10	<10	<10	<10	<10	<10
2-Chlorethylvinyl ether	<10 I	<10	<10	<10	<10	<10
Chloromethane	<10	<10	<10	<10	<10	<10
Chloroform	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
3-Chloropropene (allylchloride)	<10	<10	<10	<10	<10	<10
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	<10	<10
Dibromoethane (EDB)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene	<10	<10	<10	<10	<10	<10
Dichlorodifluoromethane	<50	<50	<50	<50	<50	<50
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethyl benzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	<100 I	<100 I	<100 I	<100 I	<100 I	<100 I
Iodomethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methacrylonitrile	<100	<100	<100	<100	<100	<100
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	<50	<50
Pentachloroethane	<10 I	<10 I	<10 I	<10 I	<10 I	<10 I
Styrene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1,2-Tetrachloroethane	<5.0 I	<5.0 I	<5.0 I	<5.0 I	<5.0 I	<5.0 I
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	<10	<10	<10	<10	<10	<10
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl acetate	<50	<50	<50	<50	<50	<50
Vinyl chloride	<10	<10	<10	<10	<10	<10
Xylenes	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	<50	<50	<50	<50	<50	<50
Propionitrile	<100 I	<100	<100 I	<100	<100 I	<100
Methyl methacrylate	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acrolein	<100 I	<100 I	<100 I	<100	<100 I	<100
Acrylonitrile	<100	<100	<100	<100	<100	<100
Ethyl methacrylate	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl alcohol	<1,000 I	<1,000	<1,000 I	<1,000 I	<1,000 I	<1,000 I
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.
NA Not analyzed.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-5. Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-11A	MW-11B	MW-11B	MW-13	MW-13 Dup	MW-13
Laboratory Log Number:	37265-3	33780-3	37265-4	33780-4	33780-5	37166-3
Date Sampled:	11/5/91	6/10/91	11/5/91	6/10/91	6/10/91	10/30/91
Parameter (concentrations in ug/L)						
Acetonitrile	<500 I	<500 I	<500 I	<5,000 I	<5,000 I	<2,500 I
Acetone	<100	<100	<100	<1,000	<1,000	<500
Benzene	<5.0	<5.0	<5.0	<50	<50	<25
Bromodichloromethane	<5.0	<5.0	<5.0	<50	<50	<25
Bromomethane	<10	<10	<10	<100	<100	<50
Carbon disulfide	<5.0	<5.0	<5.0	<50	<50	<25
Chlorobenzene	<5.0	<5.0	<5.0	**520**	**530**	**620**
Dibromochloromethane	<5.0	<5.0	<5.0	<50	<50	<25
Chloroethane	<10	<10	<10	<100	<100	<50
2-Chlorethylvinyl ether	<10	<10	<10	<100	<100	<50
Chloromethane	<10	<10	<10	<100	<100	<50
Chloroform	<5.0	<5.0	<5.0	<50	<50	<25
3-Chloropropene (allylchloride)	<10	<10	<10	<100	<100	<50
1,2-Dibromo-3-chloropropane	<10	<10	<10	<100	<100	<50
Dibromoethane (EDB)	<5.0	<5.0	<5.0	<50	<50	<25
Dibromomethane	<5.0	<5.0	<5.0	<50	<50	<25
trans-1,4-Dichloro-2-butene	<10	<10	<10	<100 I	<100 I	<25
Dichlorodifluoromethane	<50	<50	<50	<500	<500	<250
1,1-Dichloroethane	<5.0	<5.0	<5.0	<50	<50	<25
1,2-Dichloroethane	<5.0	<5.0	<5.0	<50	<50	<25
trans-1,2-Dichloroethene	<5.0	<5.0	<5.0	<50	<50	<25
1,1-Dichloroethene	<5.0	<5.0	<5.0	<50	<50	<25
Methylene chloride	<5.0	<5.0	<5.0	<50	<50	<25
1,2-Dichloropropane	<5.0	<5.0	<5.0	<50	<50	<25
cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<50	<50	<25
trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<50	<50	<25
Ethyl benzene	<5.0	<5.0	<5.0	<50	<50	<25
2-Butanone (MEK)	<100 I	<100 I	<100 I	<1,000 I	<1,000 I	<500 I
Iodomethane	<5.0	<5.0	<5.0	<50	<50	<25
Methacrylonitrile	<100	<100	<100	<1,000	<1,000	<500
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<500	<500	<250 I
Pentachloroethane	<10 I	<10 I	<10 I	<100 I	<100 I	<50 I
Styrene	<5.0	<5.0	<5.0	<50	<50	<25
1,1,1,2-Tetrachloroethane	<5.0 I	<5.0 I	<5.0 I	<50 I	<50 I	<25 I
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<50	<50	<25
Tetrachloroethene	<5.0	<5.0	<5.0	<50	<50	<25
Carbon tetrachloride	<5.0	<5.0	<5.0	<50	<50	<25
Toluene	<5.0	<5.0	<5.0	<50	<50	<25
Bromoform	<5.0	<5.0	<5.0	<50	<50	<25
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<50	<50	<25
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<50	<50	<25
Trichloroethene	<5.0	<5.0	<5.0	<50	<50	<25
Trichlorofluoromethane	<10	<10	<10	<100	<100	<50
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<50	<50	<25
Vinyl acetate	<50	<50	<50	<500	<500	<250
Vinyl chloride	<10	<10	<10	<100	<100	<50
Xylenes	<5.0	<5.0	<5.0	<50	<50	<25
2-Hexanone	<50	<50	<50	<500	<500	<250
Propionitrile	<100 I	<100	<100 I	<1,000	<1,000	<500 I
Methyl methacrylate	<5.0	<5.0	<5.0	<50	<50	<25
Acrolein	<100 I	<100	<100 I	<1,000	<1,000	<500 I
Acrylonitrile	<100	<100	<100	<1,000	<1,000	<500
Ethyl methacrylate	<5.0	<5.0	<5.0	<50	<50	<25
Isobutyl alcohol	<1,000 I	<1,000 I	<1,000 I	<10,000 I	<10,000 I	<5,000 I
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.
NA Not analyzed.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-5. Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-13	MW-13R	MW-14	MW-14 Dup	MW-14	MW-14A
Laboratory Log Number:	46405-1	37181-1	33672-8	33672-9	37211-1	46432-2
Date Sampled:	11/9/93	10/31/91	6/4/91	6/4/91	11/1/91	11/12/93
Parameter (concentrations in ug/L)						
Acetonitrile	<500	<500 I	<500,000 I	<500,000 I	<250,000 I	<500000
Acetone	<100	<100	<100,000	<100,000	<50,000	<100000
Benzene	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Bromodichloromethane	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Bromomethane	<10	<10	<10,000	<10,000	<5,000	<10000
Carbon disulfide	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Chlorobenzene	**570**	<5.0	**55,000**	**47,000**	**100,000**	**83,000**
Dibromochloromethane	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Chloroethane	<10	<10	<10,000	<10,000	<5,000	<10000
2-Chlorethylvinyl ether	<10	<10	<10,000	<10,000	<5,000	<10000
Chloromethane	<10	<10	<10,000	<10,000	<5,000	<10000
Chloroform	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
3-Chloropropene (allylchloride)	<10	<10	<10,000	<10,000	<5,000	<10000
1,2-Dibromo-3-chloropropane	<10	<10	<10,000	<10,000	<5,000	<10000
Dibromoethane (EDB)	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Dibromomethane	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
trans-1,4-Dichloro-2-butene	<10 I	<10	<10,000	<10,000	<5,000	<10000
Dichlorodifluoromethane	<50	<50	<50,000	<50,000	<25,000	<50000
1,1-Dichloroethane	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
1,2-Dichloroethane	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
trans-1,2-Dichloroethene	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
1,1-Dichloroethene	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Methylene chloride	<5.0	**13 U**	<5,000	<5,000	<2,500	<5000
1,2-Dichloropropane	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
cis-1,3-Dichloropropene	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
trans-1,3-Dichloropropene	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Ethyl benzene	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
2-Butanone (MEK)	<100	<100 I	<100,000 I	<100,000 I	<50,000 I	<100000
Iodomethane	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Methacrylonitrile	<100	<100	<100,000	<100,000	<50,000	<100000
4-Methyl-2-pentanone (MIBK)	<50	<50	<50,000	<50,000	<25,000	<50000
Pentachloroethane	<10	<10 I	<10,000 I	<10,000 I	<5,000 I	<10000
Styrene	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
1,1,1,2-Tetrachloroethane	<5.0	<5.0 I	<5,000 I	<5,000 I	<2,500 I	<5000
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Tetrachloroethene	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Carbon tetrachloride	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Toluene	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Bromoform	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
1,1,2-Trichloroethane	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
1,1,1-Trichloroethane	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Trichloroethene	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Trichlorofluoromethane	<5.0	<10	<10,000	<10,000	<5,000	<10000
1,2,3-Trichloropropane	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Vinyl acetate	<5.0	<50	<50,000	<50,000	<25,000	<10000
Vinyl chloride	<5.0	<10	<10,000	<10,000	<5,000	<10000
Xylenes	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
2-Hexanone	<50	<50	<50,000	<50,000	<25,000	<50000
Propionitrile	<100	<100 I	<100,000	<100,000	<50,000 I	<100000
Methyl methacrylate	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Acrolein	<10 I	<100 I	<100,000 I	<100,000 I	<50,000 I	<100000
Acrylonitrile	<100	<100	<100,000	<100,000	<50,000	<100000
Ethyl methacrylate	<5.0	<5.0	<5,000	<5,000	<2,500	<5000
Isobutyl alcohol	<1000 I	<1,000 I	<1,000,000 I	<1,000,000 I	<500,000 I	<1000000 I
1,1,2-Trichloro-1,2,2-trifluoroethane	<10	NA	NA	NA	NA	<10000
cis-1,2-Dichloroethene	<5.0	NA	NA	NA	NA	<5000

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.
NA Not analyzed.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-5. Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-15	MW-15	MW-20	MW-20	TW-1	TW-1
Laboratory Log Number:	33805-3	37265-2	33748-2	37265-6	33672-1	37181-4
Date Sampled:	6/11/91	11/5/91	6/7/91	11/5/91	6/4/91	10/31/91
Parameter (concentrations in ug/L)						
Acetonitrile	<500 I	<500 I	<500 I	<500 I	<50,000 I	<50,000 I
Acetone	<100	<100	<100	<100	<10,000	<10,000
Benzene	<5.0	<5.0	<5.0	<5.0	<500	<500
Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	<500	<500
Bromomethane	<10	<10	<10	<10	<1,000	<1,000
Carbon disulfide	<5.0	<5.0	<5.0	<5.0	<500	<500
Chlorobenzene	**29**	<5.0	<5.0	<5.0	**6,500**	**4,900**
Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	<500	<500
Chloroethane	<10	<10	<10	<10	<1,000	<1,000
2-Chlorethylvinyl ether	<10	<10	<10	<10	<1,000	<1,000
Chloromethane	<10	<10	<10	<10	<1,000	<1,000
Chloroform	<5.0	<5.0	<5.0	<5.0	<500	<500
3-Chloropropene (allylchloride)	<10	<10	<10	<10	<1,000	<1,000
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	<1,000	<1,000
Dibromoethane (EDB)	<5.0	<5.0	<5.0	<5.0	<500	<500
Dibromomethane	<5.0	<5.0	<5.0	<5.0	<500	<500
trans-1,4-Dichloro-2-butene	<10	<10	<10	<10	<1,000	<1,000
Dichlorodifluoromethane	<50	<50	<50	<50	<5,000	<5,000
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<500	<500
1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<500	<500
trans-1,2-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<500	<500
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<500	<500
Methylene chloride	<5.0	<5.0	<5.0	<5.0	<500	<500
1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	<500	<500
cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	<500	<500
trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	<500	<500
Ethyl benzene	<5.0	<5.0	<5.0	<5.0	<500	<500
2-Butanone (MEK)	<100 I	<100 I	<100 I	<100 I	<10,000 I	<10,000 I
Iodomethane	<5.0	<5.0	<5.0	<5.0	<500	<500
Methacrylonitrile	<100	<100	<100	<100	<10,000	<10,000
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	<5,000	<5,000
Pentachloroethane	<10 I	<10 I	<10 I	<10 I	<1,000 I	<1,000 I
Styrene	<5.0	<5.0	<5.0	<5.0	<500	<500
1,1,1,2-Tetrachloroethane	<5.0 I	<5.0 I	<5.0 I	<5.0 I	<500 I	<500 I
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<500	<500
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	<500	<500
Carbon tetrachloride	<5.0	<5.0	<5.0	<5.0	<500	<500
Toluene	<5.0	<5.0	<5.0	<5.0	<500	<500
Bromoform	<5.0	<5.0	<5.0	<5.0	<500	<500
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<500	<500
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<500	<500
Trichloroethene	<5.0	<5.0	<5.0	<5.0	<500	<500
Trichlorofluoromethane	<10	<10	<10	<10	<1,000	<1,000
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	<500	<500
Vinyl acetate	<50	<50	<50	<50	<5,000	<5,000
Vinyl chloride	<10	<10	<10	<10	<1,000	<1,000
Xylenes	<5.0	<5.0	<5.0	<5.0	<500	<500
2-Hexanone	<50	<50	<50	<50	<5,000	<5,000
Propionitrile	<100	<100 I	<100	<100 I	<10,000	<10,000 I
Methyl methacrylate	<5.0	<5.0	<5.0	<5.0	<500	<500
Acrolein	<100	<100 I	<100 I	<100 I	<10,000 I	<10,000 I
Acrylonitrile	<100	<100	<100	<100	<10,000	<10,000
Ethyl methacrylate	<5.0	<5.0	<5.0	<5.0	<500	<500
Isobutyl alcohol	<1,000	<1,000 I	<1,000	<1,000 I	<100,000	<100,000 I
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.
NA Not analyzed.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-5. Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	OBS-1	OBS-1	OBS-1	HW-1B	HW-1B	QS-1
Laboratory Log Number:	33693-3	37181-2	46405-21	33693-1	37211-4	33693-2
Date Sampled:	6/5/91	10/31/91	11/10/93	6/5/91	11/1/91	6/5/91
Parameter (concentrations in ug/L)						
Acetonitrile	<13,000 I	<5,000 I	<5000	<5,000 I	<5,000 I	<500 I
Acetone	<2,500	<1,000	<1000	<1,000	<1,000	<100
Benzene	**290**	<50	**76**	<50	<50	<5.0
Bromodichloromethane	<130	<50	<50	<50	<50	<5.0
Bromomethane	<25	<100	<100	<100	<100	<10
Carbon disulfide	<130	<50	<50	<50	<50	<5.0
Chlorobenzene	**4,700**	**900**	**1,800**	<50	<50	<5.0
Dibromochloromethane	<130	<50	<50	<50	<50	<5.0
Chloroethane	<250	<100	<100	<100	<100	<10
2-Chlorethylvinyl ether	<250	<100	<100	<100	<100	<10
Chloromethane	<250	<100	<100	<100	<100	<10
Chloroform	<130	<50	<50	<50	<50	<5.0
3-Chloropropene (allylchloride)	<250	<100	<100	<100	<100	<10
1,2-Dibromo-3-chloropropane	<250	<100	<100	<100	<100	<10
Dibromoethane (EDB)	<130	<50	<50	<50	<50	<5.0
Dibromomethane	<130	<50	<50	<50	<50	<5.0
trans-1,4-Dichloro-2-butene	<250	<100	<100	<100	<100	<10
Dichlorodifluoromethane	<1,300	<500	<500	<500	<500	<50
1,1-Dichloroethane	<130	<50	<50	<50	<50	<5.0
1,2-Dichloroethane	<130	<50	<50	<50	<50	<5.0
trans-1,2-Dichloroethene	<130	<50	<50	<50	<50	<5.0
1,1-Dichloroethene	<130	<50	<50	<50	<50	<5.0
Methylene chloride	<130	<50	<50	<50	<50	<5.0
1,2-Dichloropropane	<130	<50	<50	<50	<50	<5.0
cis-1,3-Dichloropropene	<130	<50	<50	<50	<50	<5.0
trans-1,3-Dichloropropene	<130	<50	<50	<50	<50	<5.0
Ethyl benzene	<130	<50	<50	<50	<50	<5.0
2-Butanone (MEK)	<2,500 I	<1,000 I	<1000	<1,000 I	<1,000 I	<100 I
Iodomethane	<130	<50	<50	<50	<50	<5.0
Methacrylonitrile	<2,500	<1,000	<1000	<1,000	<1,000	<100
4-Methyl-2-pentanone (MIBK)	<1,300	<500 I	<500	<500	<500	<50
Pentachloroethane	<250 I	<100 I	<100	<100 I	<100 I	<10 I
Styrene	<130	<50	<50	<50	<50	<5.0
1,1,1,2-Tetrachloroethane	<130 I	<50 I	<50	<50 I	<50 I	<5.0 I
1,1,2,2-Tetrachloroethane	<130	<50	<50	<50	<50	<5.0
Tetrachloroethene	<130	<50	<50	<50	<50	<5.0
Carbon tetrachloride	<130	<50	<50	<50	<50	<5.0
Toluene	<130	<50	<50	<50	<50	<5.0
Bromoform	<130	<50	<50	<50	<50	<5.0
1,1,2-Trichloroethane	<130	<50	<50	<50	<50	<5.0
1,1,1-Trichloroethane	<130	<50	<50	<50	<50	<5.0
Trichloroethene	<130	<50	<50	**1,100**	**330**	<5.0
Trichlorofluoromethane	<250	<100	<100	<100	<100	<10
1,2,3-Trichloropropane	<130	<50	<50	<50	<50	<5.0
Vinyl acetate	<1,300	<500	<100	<500	<500	<50
Vinyl chloride	<250	<100	<100	<100	<100	<10
Xylenes	<130	<50	<50	<50	<50	<5.0
2-Hexanone	<1,300	<500	<500	<500	<500	<50
Propionitrile	<2,500	<1,000 I	<1000	<1,000	<1,000 I	<100
Methyl methacrylate	<130	<50	<50	<50	<50	<5.0
Acrolein	<2,500 I	<1,000 I	<1000	<1,000 I	<1,000 I	<100 I
Acrylonitrile	<2,500	<1,000	<1000	<1,000	<1,000	<100
Ethyl methacrylate	<130	<50	<50	<50	<50	<5.0
Isobutyl alcohol	<2,500 I	<1,000 I	<10000 I	<10,000 I	<10,000 I	<1,000 I
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	<100	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	<50	NA	NA	NA

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.
NA Not analyzed.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-5. Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	QS-1	VW-2	VW-2	VW-2	VW-2A	VW-2B
Laboratory Log Number:	37181-3	33733-1	37146-1	46405-19	46432-1	33733-2
Date Sampled:	10/31/91	6/6/91	10/29/91	11/10/93	11/12/93	6/6/91
Parameter (concentrations in ug/L)						
Acetonitrile	<500 I	<25,000 I	<50,000 I	<25000	<25000	<5,000 I
Acetone	<100	<5,000	<10,000	<5000	<5000	<1,000
Benzene	<5.0	**1,900**	**1,300**	<250	<250	<50
Bromodichloromethane	<5.0	<250	<500	<250	<250	<50
Bromomethane	<10	<500	<1,000	<500	<500	<100
Carbon disulfide	<5.0	<250	<500	<250	<250	<50
Chlorobenzene	<5.0	**7,500**	**8,000**	**5,700**	**3,500**	<50
Dibromochloromethane	<5.0	<250	<500	<250	<250	<50
Chloroethane	<10	<500	<1,000	<500	<500	<100
2-Chlorethylvinyl ether	<10	<500	<1,000	<500	<500	<100
Chloromethane	<10	<500	<1,000	<500	<500	<100
Chloroform	<5.0	<250	<500	<250	<250	<50
3-Chloropropene (allylchloride)	<10	<500	<1,000	<500	<500	<100
1,2-Dibromo-3-chloropropane	<10	<500	<1,000	<500	<500	<100
Dibromoethane (EDB)	<5.0	<250	<500	<250	<250	<50
Dibromomethane	<5.0	<250	<500	<250	<250	<50
trans-1,4-Dichloro-2-butene	<10	<500	<1,000	<500 I	<500	<100
Dichlorodifluoromethane	<50	<2,500	<5,000	<2500	<2500	<500
1,1-Dichloroethane	<5.0	<250	<500	<250	<250	<50
1,2-Dichloroethane	<5.0	<250	<500	<250	<250	<50
trans-1,2-Dichloroethene	<5.0	<250	<500	<250	<250	<50
1,1-Dichloroethene	<5.0	<250	<500	<250	<250	<50
Methylene chloride	<5.0	<250	<500	<250	<250	<50
1,2-Dichloropropane	<5.0	<250	<500	<250	<250	<50
cis-1,3-Dichloropropene	<5.0	<250	<500	<250	<250	<50
trans-1,3-Dichloropropene	<5.0	<250	<500	<250	<250	<50
Ethyl benzene	<5.0	<250	<500	<250	<250	<50
2-Butanone (MEK)	<100 I	<5,000 I	<10,000 I	<5000	<5000	<1,000 I
Iodomethane	<5.0	<250	<500	<250	<250	<50
Methacrylonitrile	<100	<5,000	<10,000	<5000	<5000	<1,000
4-Methyl-2-pentanone (MIBK)	<50	<2,500	<5,000 I	<2500	<2500	<500
Pentachloroethane	<10 I	<500 I	<1,000 I	<500	<500	<100 I
Styrene	<5.0	<250	<500	<250	<250	<50
1,1,1,2-Tetrachloroethane	<5.0 I	<250 I	<500 I	<250	<250	<50 I
1,1,2,2-Tetrachloroethane	<5.0	<250	<500	<250	<250	<50
Tetrachloroethene	<5.0	<250	<500	<250	<250	<50
Carbon tetrachloride	<5.0	<250	<500	<250	<250	<50
Toluene	<5.0	<250	<500	<250	<250	<50
Bromoform	<5.0	<250	<500	<250	<250	<50
1,1,2-Trichloroethane	<5.0	<250	<500	<250	<250	<50
1,1,1-Trichloroethane	<5.0	<250	<500	<250	<250	<50
Trichloroethene	<5.0	<250	<500	<250	**470 J**	<50
Trichlorofluoromethane	<10	<500	<500	<500	<500	<100
1,2,3-Trichloropropane	<5.0	<250	<500	<250	<250	<50
Vinyl acetate	<50	<2,500	<1,000	<500	<500	<500
Vinyl chloride	<10	<500	<500	<500	<500	<100
Xylenes	<5.0	<250	<500	<250	<250	<50
2-Hexanone	<50	<2,500	<5,000	<2500	<2500	<500
Propionitrile	<100 I	<5,000	<10,000 I	<5000	<5000	<1,000
Methyl methacrylate	<5.0	<250	<500	<250	<250	<50
Acrolein	<100 I	<5,000 I	<10,000 I	<5000 I	<5000	<1,000 I
Acrylonitrile	<100	<25,000	<10,000	<5000	<5000	<1,000
Ethyl methacrylate	<5.0	<250	<500	<250	<250	<50
Isobutyl alcohol	<1,000 I	<50,000 I	<100,000 I	<50000 I	<50000 I	<10,000 I
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	<500	<500	NA
cis-1,2-Dichloroethene	NA	NA	NA	<250	<250	NA

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.
NA Not analyzed.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-5. Volatile Organic Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	VW-2B	Rinsate Blk.	Trip Blank A
Laboratory Log Number:	37211-3	46432-3	46405-34
Date Sampled:	11/1/91	11/12/93	11/9/93
Parameter (concentrations in ug/L)			
Acetonitrile	<50,000 I	<500	<500
Acetone	<10,000	<100	<100
Benzene	<500	<5.0	<5.0
Bromodichloromethane	<500	<5.0	<5.0
Bromomethane	<1,000	<10	<10
Carbon disulfide	<500	<5.0	<5.0
Chlorobenzene	1,800	<5.0	<5.0
Dibromochloromethane	<500	<5.0	<5.0
Chloroethane	<1,000	<10	<10
2-Chlorethylvinyl ether	<1,000	<10	<10
Chloromethane	<1,000	<10	<10
Chloroform	<500	<5.0	<5.0
3-Chloropropene (allylchloride)	<1,000	<10	<10
1,2-Dibromo-3-chloropropane	<1,000	<10	<10
Dibromoethane (EDB)	<500	,5.0	<5.0
Dibromomethane	<500	<5.0	<5.0
trans-1,4-Dichloro-2-butene	<1,000	<10	<10 I
Dichlorodifluoromethane	<5,000	<50	<50
1,1-Dichloroethane	<500	<5.0	<5.0
1,2-Dichloroethane	<500	<5.0	<5.0
trans-1,2-Dichloroethene	<500	<5.0	<5.0
1,1-Dichloroethene	<500	<5.0	<5.0
Methylene chloride	<500	<5.0	<5.0
1,2-Dichloropropane	<500	<5.0	<5.0
cis-1,3-Dichloropropene	<500	<5.0	<5.0
trans-1,3-Dichloropropene	<500	<5.0	<5.0
Ethyl benzene	<500	<5.0	<5.0
2-Butanone (MEK)	<10,000 I	<100	<100
Iodomethane	<500	<5.0	<5.0
Methacrylonitrile	<10,000	<100	<100
4-Methyl-2-pentanone (MIBK)	<5,000	<50	<50
Pentachloroethane	<1,000 I	<10	<10
Styrene	<500	<5.0	<5.0
1,1,1,2-Tetrachloroethane	<500 I	<5.0	<5.0
1,1,2,2-Tetrachloroethane	<500	<5.0	<5.0
Tetrachloroethene	<500	<5.0	<5.0
Carbon tetrachloride	<500	<5.0	<5.0
Toluene	<500	<5.0	<5.0
Bromoform	<500	<5.0	<5.0
1,1,2-Trichloroethane	<500	<5.0	<5.0
1,1,1-Trichloroethane	<500	<5.0	<5.0
Trichloroethene	<500	<5.0	<5.0
Trichlorofluoromethane	<1,000	<10	<10
1,2,3-Trichloropropane	<500	<5.0	<5.0
Vinyl acetate	<5,000	<10	<10
Vinyl chloride	<1,000	<10	<10
Xylenes	<500	<5.0	<5.0
2-Hexanone	<5,000	<50	<50
Propionitrile	<10,000 I	<100	<100
Methyl methacrylate	<500	<5.0	<5.0
Acrolein	<10,000 I	<100	<100 I
Acrylonitrile	<10,000	<100	<100
Ethyl methacrylate	<500	<5.0	<5.0
Isobutyl alcohol	<100,000 I	<1000 I	<1000 I
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	<10	<10
cis-1,2-Dichloroethene	NA	<5.0	<5.0

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.
NA Not analyzed.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-2A		MW-2B		MW-2R	
Laboratory Log Number:	33733-3		33733-4		32911-1	
Date Sampled:	6/6/91		6/6/91		4/25/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	NA
Barium	**270**	**95 J**	**150**	**150 J**	**83 J**	NA
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	NA
Cadmium	<5.0	<5.0	<5.0	<5.0	**11**	NA
Chromium	<10	<10	<10	**10**	**19**	NA
Cobalt	<10	<10	<10	<10	<10	NA
Copper	<25	<25	<25	<25	**26**	NA
Nickel	<40	<40	**43**	<40	<40	NA
Silver	<10	<10 I	<10	<10 I	<10	NA
Tin	<50	<50	<50	<50	<50	NA
Vanadium	<10	<10	<10	<10	**12**	NA
Zinc	**58**	**30**	**40**	**41**	**89**	NA
Arsenic	<10	<10	<10	<10	**15**	NA
Lead	<5.0	<5.0	<5.0	<5.0	<5	NA
Thallium	<10	<10	<10	<10	<10	NA
Selenium	<25	<25	<25	<25	<10	NA
Mercury	<0.20	NA	<0.20	NA	<0.20	NA
Total Cyanide	<10	NA	<10	NA	<10	NA
Sulfide	<100	NA	<100	NA	<100	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-2R		MW-3		MW-3	
Laboratory Log Number:	37265-5		33805-2		37265-1	
Date Sampled:	11/5/91		6/11/91		11/5/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	<50
Barium	**460**	**270**	**130**	**140**	**460**	**120**
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	<5.0	<5.0	**7**	<5.0	<5.0	<5.0
Chromium	**69**	<10	<10	<10	**38**	<10
Cobalt	**52**	**12**	<10	<10	**24**	<10
Copper	**99**	<25	<25	<25	**66**	<25
Nickel	**150**	<40	<40	<40	**69**	<40
Silver	<5.0	<10	<10	<10 I	<5.0	<10
Tin	<50	<50	<50	<50	<50	<50
Vanadium	**89**	<10	**14**	<10	**73**	<10
Zinc	**230**	**20**	**25**	**26**	**210**	**22**
Arsenic	**60 J**	<10	<10	<10	**22 J**	<10
Lead	**38**	<5.0	**9**	<5.0	**36**	**14**
Thallium	<10	<10	<10	<10	<10	<10
Selenium	<100	<25	<10	<10	<100	<10
Mercury	<0.20	<0.20	<0.20	NA	<0.20	<0.20
Total Cyanide	<10	NA	<10	NA	<10	NA
Sulfide	<100	NA	<100	NA	<100	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-4		MW-4		MW-8A	
Laboratory Log Number:	33805-4		37166-1		33748-3	
Date Sampled:	6/11/91		10/30/91		6/7/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	<50
Barium	**45**	**61**	**260 J**	**80 U**	**880 J**	**720 J**
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium	<10	<10	**21**	<10	<10	<10
Cobalt	<10	<10	**11**	<10	<10	<10
Copper	<25	<25	**25**	<25	<25	<25
Nickel	<40	<40	<40	<40	<40	<40
Silver	<10	<10 I	<10	<10	<10	<10 I
Tin	<50	<50	<50	<50	<50	<50
Vanadium	<10	<10	**27 J**	<10	<10	<10
Zinc	**49**	**24**	**95 U**	**24 U**	**450**	**40 J**
Arsenic	**45 J**	**24**	**55**	**40**	**17**	**15**
Lead	**15**	<5.0	**13 J**	<5.0	**28**	<5.0
Thallium	<10	<10	<10	<10	<10	<10
Selenium	<10	<10	<10	<10	<50	<25
Mercury	<0.20	NA	<0.020	<0.20	<0.20	NA
Total Cyanide	<10	NA	<10	NA	<10	NA
Sulfide	<100	NA	<100	NA	<100	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-8A Dup		MW-8A		MW-8A Dup	
Laboratory Log Number:	33748-4		37146-5		37146-6	
Date Sampled:	6/7/91		10/29/91		10/29/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	<50
Barium	**920 J**	**630 J**	**1,200 J**	**700 J**	**1,200 J**	**710 J**
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium	<10	<10	**16**	<10	**13**	<10
Cobalt	<10	<10	<10	<10	<10	<10
Copper	<25	<25	**45**	<25	**38**	<25
Nickel	<40	<40	<40	<40	<40	<40
Silver	**10**	**10 J**	<10	<10	<10	<10
Tin	<50	<50	<50	<50	<50	<50
Vanadium	<10	<10	**15**	<10	**14**	<10
Zinc	**260**	**32 J**	**110 U**	**25 U**	**97 U**	**30 U**
Arsenic	**20**	<10	**15**	<10	<10	<10
Lead	**33**	<5.0	**65 J**	<5.0	**56 J**	<25
Thallium	<10	<10	<10	<25	<25	<25
Selenium	<25	<25	<10	<250	<50	<250
Mercury	<0.20	NA	<0.20	<0.20	<0.20	<0.20
Total Cyanide	<10	NA	<10	NA	NA	NA
Sulfide	<100	NA	<100	NA	NA	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-8B		MW-8B Dup		MW-8B	
Laboratory Log Number:	33748-5		33748-6		37146-4	
Date Sampled:	6/7/91		6/7/91		10/29/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	<50
Barium	**640 J**	**320 J**	**710**	**310 J**	**490 J**	**330 J**
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium	<10	<10	<10	<10	<10	<10
Cobalt	<10	<10	<10	<10	<10	<10
Copper	<25	<25	<25	<25	<25	<25
Nickel	<40	<40	<40	<40	<40	<40
Silver	**11**	<10 I	**12**	<10 I	<10	<10
Tin	<50	<50	<50	<50	<50	<50
Vanadium	<10	<10	<10	<10	<10	<10
Zinc	**520**	**32 J**	**800**	**37 J**	<20	**30 U**
Arsenic	**19**	<10	**19**	<10	<10	<10
Lead	**15**	<5.0	**34**	<5.0	<5.0	<5.0 I
Thallium	<10	<10	<10	<10	<10	<10
Selenium	<10	<10	<10	<10	<10	<10
Mercury	<0.20	NA	<0.20	NA	<0.20	<0.20
Total Cyanide	<10	NA	<10	NA	<10	NA
Sulfide	<100	NA	<100	NA	<100	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-8R		MW-9		MW-9	
Laboratory Log Number:	37146-3		33748-1		37181-6	
Date Sampled:	10/29/91		6/7/91		10/31/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	<50
Barium	160 J	140 J	47 J	50 J	85	33
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium	120	<10	<10	<10	<10	<10
Cobalt	<10	<10	<10	<10	<10	<10
Copper	<25	<25	<25	<25	<25	<25
Nickel	64	<40	<40	<40	<40	<40
Silver	<10	<10	<10	<10 I	<10	<10
Tin	<50	<50	<50	<50	<50	<50
Vanadium	<10	<10	<10	<10	<10	<10
Zinc	62 U	<20	370	30	28 U	22 U
Arsenic	<10	<10	41	34 J	40 J	29
Lead	6.9 J	<5.0	<5.0	<5.0	<5.0	<5.0
Thallium	<10	<10	<10	<10	<10	<10
Selenium	<10	<10	<25	<10	<10	<25
Mercury	<0.20	<0.20	<0.20	NA	<0.20	<0.20
Total Cyanide	<10	NA	18	NA	13	NA
Sulfide	<100	NA	<100	NA	<100	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-10		MW-10		MW-11A	
Laboratory Log Number:	33780-1		37166-2		33780-2	
Date Sampled:	6/10/91		10/30/91		6/10/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	<50
Barium	1,600	590	2,000 J	660 J	180	120
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium	58	<10	76	<10	<10	<10
Cobalt	40	<10	46	<10	<10	<10
Copper	71	<25	88	<25	47	<25
Nickel	100	<40	120	<40	<40	<40
Silver	26	<10 I	<10	<10	<10	<10 I
Tin	<50	<50	<50	<50	<50	<50
Vanadium	140	<10	130	<10	17	<10
Zinc	510	43	390 U	38 U	200	22
Arsenic	95 J	34	64	36	54 J	40
Lead	75	<5.0	56 J	<5.0	170	<5.0
Thallium	<10	<10	<10	<10	<25	<10
Selenium	<10	<10	<10	<25	<10	<10
Mercury	0.30	NA	<0.020	<0.20	0.25	NA
Total Cyanide	18	NA	13	NA	<10	NA
Sulfide	<100	NA	160 J	NA	<100	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-11A		MW-11B		MW-11B	
Laboratory Log Number:	37265-3		33780-3		37265-4	
Date Sampled:	11/5/91		6/10/91		11/5/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	<50
Barium	**340**	**150**	**1,100**	**780**	**1,000**	**680**
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium	**29**	<10	<10	<10	<10	<10
Cobalt	**10**	<10	<10	<10	<10	<10
Copper	**100**	<25	<25	<25	<25	<25
Nickel	<40	<40	<40	<40	<40	<40
Silver	<5.0	<10	**16**	<10 I	<5.0	<10
Tin	<50	<50	<50	<50	<50	<50
Vanadium	**33**	<10	**15**	<10	<10	<10
Zinc	**320**	<20	**160**	**33**	**81**	**22**
Arsenic	**61** J	**46**	**35** J	<10	**56** J	<10
Lead	**450**	<5.0	**74**	<5.0	**55**	<5.0
Thallium	<10	<10	<10	<10	<10	<10
Selenium	<10	<25	<25	<25	<100	<25
Mercury	**0.70**	<0.20	**0.25**	NA	<0.20	<0.20
Total Cyanide	<10	NA	**24**	NA	**23**	NA
Sulfide	**110**	NA	<100	NA	<100	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-13		MW-13 Dup		MW-13	
Laboratory Log Number:	33780-4		33780-5		37166-3	
Date Sampled:	6/10/91		6/10/91		10/30/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	<50
Barium	2,200	500 J	2,100	510	1,000 J	400 J
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	10	<5.0	8	<5.0	<5.0	<5.0
Chromium	68	<10	66	<10	47	<10
Cobalt	60	<10	63	<10	29	<10
Copper	350	<25	310	<25	140	<25
Nickel	160	<40	180	<40	63	<40
Silver	56	<10 I	60	<10 I	<10	<10
Tin	<50	<50	<50	<50	<50	<50
Vanadium	200	<10	210	<10	77 J	<10
Zinc	1,300	25	1,400	43	430 U	31 U
Arsenic	38 J	<10	45 J	<10	26	<10
Lead	560	<5.0	1,000	<5.0	570 J	<25
Thallium	<10	<10	<10	<10	<10	<10
Selenium	<25	<10	<25	<10	<50	<25
Mercury	4.1	NA	3.7	NA	<0.020	<0.20
Total Cyanide	20	NA	26	NA	25	NA
Sulfide	960	NA	1,600	NA	24,000 J	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-13	MW-13R		MW-14	
Laboratory Log Number:	46405-1	37181-1		37211-4	
Date Sampled:	11/9/93	10/31/91		11/01/91	
Parameter (concentrations in ug/L)	Total	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50
Barium	**300**	**210**	**220**	**1,400**	**1,300**
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium	<10	**89**	<10	**90**	<10
Cobalt	<10	<10	<10	**24**	<10
Copper	<25	<25	<25	**130**	<25
Nickel	<40	**320**	**79**	**63**	<40
Silver	<10	<10	<10	<10	<10
Tin	<50	<50	<50	<50	<50
Vanadium	<10	<10	<10	**50**	<10
Zinc	**33**	**56 U**	**22 U**	**390 U**	**52 J**
Arsenic	**13**	<10	<10	**36 J**	**20**
Lead	**26**	<5.0	<5.0	**240**	<5.0
Thallium	<10	<10	<10	<10	<10
Selenium	<10	<50	<10	<100	<25
Mercury	<0.20	<0.20	<0.20	**0.32**	<0.20
Total Cyanide	NA	<10	NA	<10	NA
Sulfide	NA	**780 J**	NA	**320 J**	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-15		MW-15		MW-15
Laboratory Log Number:	33805-3		37265-2		46405-25
Date Sampled:	6/11/91		11/5/91		11/10/93
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total
Antimony	<50	<50	<50	<50	<50
Barium	2,000	250	1,700	150	150
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	9	<5.0	<5.0	<5.0	<5.0
Chromium	57	<10	68	<10	<10
Cobalt	110	<10	67	<10	<10
Copper	140	<25	110	<25	<25
Nickel	200	<40	150	<40	<40
Silver	30	<10 I	<5.0	<10	<10
Tin	<50	<50	<50	<50	<50
Vanadium	170	<10	130	<10	<10
Zinc	820	47	430	27	<20
Arsenic	280 J	59	270 J	64	180
Lead	100	<5.0	160	6.8	<5.0
Thallium	<10	<10	<10	<10	<10
Selenium	<10	<10	<10	<25	<10
Mercury	0.37	NA	0.26	<0.20	<0.20
Total Cyanide	<10	NA	<10	NA	NA
Sulfide	<100	NA	<100	NA	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-20		MW-20		MW-20	MW-20B
Laboratory Log Number:	33748-2		37265-6		46405-24	46405-23
Date Sampled:	6/7/91		11/5/91		11/10/93	11/10/93
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Total
Antimony	<50	<50	<50	<50	<50	NA
Barium	830 J	510 J	830	480	430	NA
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	NA
Cadmium	<5.0	<5.0	<5.0	<5.0	<5.0	NA
Chromium	<10	<10	17	<10	<10	NA
Cobalt	52	<10	27	<10	<10	NA
Copper	35	<25	<25	<25	<25	NA
Nickel	72	<40	<40	<40	<40	NA
Silver	32	32 J	<10	<10	<10	NA
Tin	<50	<50	<50	<50	<50	NA
Vanadium	65	<10	45	<10	<10	NA
Zinc	540	35 J	260	<20	<20	NA
Arsenic	54	<10	45 J	<10	<10	NA
Lead	430	<5.0	410	<5.0	<5.0	NA
Thallium	<10	<10	<10	<10	<50	NA
Selenium	<25	<25	<100	<25	<10	NA
Mercury	1.6	NA	1.5	<0.20	<0.20	NA
Total Cyanide	6,500	NA	27,000	NA	490	18
Sulfide	7,600	NA	530	NA	NA	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	TW-1		TW-1		OBS-1	
Laboratory Log Number:	33672-1		37181-3		33693-3	
Date Sampled:	6/4/91		10/31/91		6/5/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	<50
Barium	**280**	**230**	**140**	**110**	**250**	**23** J
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium	<10	<10	<10	<10	**21**	<10
Cobalt	<10	<10	<10	<10	<10	<10
Copper	<25	<25	<25	<25	**28**	<25
Nickel	<40	<40	<40	<40	<40	<40
Silver	<10	<10	<10	<10	<10	<10 I
Tin	<50	<50	<50	<50	<50	<50
Vanadium	<10	<10	<10	<10	**15**	<10
Zinc	**59**	**36**	**240** U	**22** U	**240**	<20
Arsenic	<10	<10	<10	<10	<10	<10
Lead	<5	<5	<5.0	<5.0	**88** J	<5.0
Thallium	<10	<10	<10	<10	<25	<10
Selenium	<10	<10	<10	<25	<10	<10
Mercury	<0.20	NA	<0.20	<0.20	**0.37** J	NA
Total Cyanide	<10	NA	<10	NA	<10	NA
Sulfide	<100	NA	<100	NA	<100	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	OBS-1		HW-1B		HW-1B	
Laboratory Log Number:	37181-2		33693-1		37211-4	
Date Sampled:	10/31/91		6/5/91		11/1/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	<50
Barium	**380**	**270**	**1,400**	**20 J**	**71**	**35**
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	<5.0	<5.0	**5**	<5.0	<5.0	<5.0
Chromium	<10	**13**	**85**	<10	**11**	<10
Cobalt	<10	<10	**62**	<10	<10	<10
Copper	<25	<25	**140**	<25	<25	<25
Nickel	<40	<40	**160**	<40	<40	<40
Silver	<10	<10	**30**	<10 I	<10	<10
Tin	<50	<50	<50	<50	<50	<50
Vanadium	<10	<10	**160**	<10	<10	<10
Zinc	**47 U**	**20 U**	**410**	<20	**31 U**	<20
Arsenic	<10	<10	**53**	<10	<10	<10
Lead	**13**	<5.0	**85 J**	<5.0	**25**	<5.0
Thallium	<10	<10	<25	<10	<10	<50
Selenium	<100	<25	<25	<10	<50	<25
Mercury	<0.20	<0.20	**1.6 J**	NA	<0.20	<0.20
Total Cyanide	<10	NA	<10	NA	<10	NA
Sulfide	<100	NA	<100	NA	<100	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	QS-1		QS-1		VW-2	
Laboratory Log Number:	33693-2		37181-3		33733-1	
Date Sampled:	6/5/91		10/31/91		6/6/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	<50
Barium	**2,200**	**1,400 J**	**2,600**	**2,500**	**810**	**410**
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium	**10**	<10	<10	<10	<10	<10
Cobalt	<10	<10	<10	<10	<10	<10
Copper	**31**	<25	<25	<25	**27**	<25
Nickel	<40	<40	<40	<40	<40	<40
Silver	<10	<10 I	<10	<10	<10	<10
Tin	<50	<50	<50	<50	<50	<50
Vanadium	**14**	<10	<10	<10	**20**	**11**
Zinc	**170**	<20	**46 U**	<20	**110**	**40**
Arsenic	**10**	<10	<10	<10	**13**	<10
Lead	**120 J**	<5.0	**18**	<5.0	**70 J**	<5.0
Thallium	<25	<25	<10	<10	<25	<25
Selenium	<10	<10	<10	<25	<10	<10
Mercury	**0.24 J**	NA	<0.20	<0.20	<0.20	NA
Total Cyanide	<10	NA	<10	NA	<10	NA
Sulfide	<100	NA	<100	NA	**850 J**	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-8. Concentrations of Metals, Total Cyanide, and Sulfide in Ground Water Samples, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	VW-2		VW-2B		VW-2B	
Laboratory Log Number:	37146-1		33733-2		37211-3	
Date Sampled:	10/29/91		6/6/91		11/1/91	
Parameter (concentrations in ug/L)	Total	Dissolved	Total	Dissolved	Total	Dissolved
Antimony	<50	<50	<50	<50	<50	<50
Barium	1,200 J	480 J	190	96 J	130	110
Beryllium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium	16	<10	10	<10	<10	<10
Cobalt	24	<10	10	<10	<10	<10
Copper	95	<25	<25	<25	<25	<25
Nickel	56	<40	<40	<40	<40	<40
Silver	<10	<10	11	<10 I	<10	<10
Tin	<50	<50	<50	<50	<50	<50
Vanadium	35	<10	20	<10	<10	<10
Zinc	300 U	39 U	52	48 J	46 U	31 J
Arsenic	15	<10	53	16	36 J	<10
Lead	230 J	5.4	15 J	<5.0	8.0	<5.0
Thallium	<10	<10	<10	<10	<10	<10
Selenium	<10	<10	<10	<25	<50	<25
Mercury	<0.20	<0.20	<0.20	NA	<0.20	<0.20
Total Cyanide	10	NA	<10	NA	<10	NA
Sulfide	480 J	NA	<100	NA	<100	NA

ug/L Micrograms per liter.
NA Not analyzed.
I Data invalid.
J Estimated value.
U Value was less than five times the concentration detected in the associated blank; therefore, the value is considered to be not detected.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-2A	MW-2B	MW-2R	MW-3	MW-4	MW-4
Laboratory Log Number:	33733-3	33733-4	32911-1	33805-2	33805-4	37166-1
Date Sampled:	6/6/91	6/6/91	4/25/91	6/11/91	6/11/91	10/29/91
Parameter (concentrations in ug/L)						
Acenaphthene	<10	<10	<10	<10	<10	<10
Acenaphthylene	<10	<10	<10	<10	<10	<10
Acetophenone	<10	<10	<10	<10	<10	<10
2-Acetylaminofluorene	<20	<20	<20	<20	<20	<20
4-Aminobiphenyl	<20	<20	<20	<20	<20	<20
Anthracene	<10	<10	<10	<10	<10	<10
Aniline	<10	<10	<10	<10	<10	<10
Benzo(a)anthracene	<10	<10	<10	<10	<10	<10
Benzo(k)fluoranthene	<10	<10	<10	<10	<10	<10
Benzo(b)fluoranthene	<10	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene	<10	<10	<10	<10	<10	<10
Benzo(a)pyrene	<10	<10	<10	<10	<10	<10
Benzyl alcohol	<10	<10	<10	<10	<10	<10
bis(2-Chloroethoxy)methane	<10	<10	<10	<10	<10	<10
bis(2-Choroethyl)ether	<10	<10	<10	<10	<10	<10
bis(2-Chloroisopropyl)ether	<10	<10	<10	<10	<10	<10
bis(2-Ethylhexyl)phthalate	<10	<10	<10	<10	<10	<10
4-Bromophenyl-phenyl-ether	<10	<10	<10	<10	<10	<10
Butylbenzylphthalate	<10	<10	<10	<10	<10	<10
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	<50	<50	<50	<50	<50	<50
p-Chloroaniline	<20	<20	<20	<20	<20	<20
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	**14**
1,2-Dichlorobenzene	<10	<10	<10	<10	<10	<10
4-Chlorophenyl-phenyl ether	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	<10	<10	<10	<10	<10	<10
Chrysene	<10	<10	<10	<10	<10	<10
Dibenz(a,h)anthracene	<10	<10	<10	<10	<10	<10
Di-n-butylphthalate	<10	<10	<10	<10	<10	<10
3,3'-Dichlorobenzidine	<20	<20	<20	<20	<20	<20
3,3'-Dimethylbenzidine	<10	<10	<10	<10	<10	<10
Diethylphthalate	<10	<10	<10	<10	<10	<10
p-(Dimethylamino)azobenzene	<10	<10	<10	<10	<10	<10
7,12-Dimethylbenz(a)anthracene	<10	<10	<10	<10	<10	<10
a-a-Dimethylphenethylamine	<50	<50	<50	<50	<50	<50
Dimethylphthalate	<10	<10	<10	<10	<10	<10
m-Dinitrobenzene	<50	<50	<50	<50	<50	<10
2,4-Dinitrotoluene	<10	<10	<10	<10	<10	<10
2,6-Dinitrotoluene	<10	<10	<10	<10	<10	<10
Di-n-octylphthalate	<10	<10	<10	<10	<10	<10
N-Nitroso-di-n-propylamine	<10	<10	<10	<10	<10	<10
Fluoranthene	<10	<10	<10	<10	<10	<10
Fluorene	<10	<10	<10	<10	<10	<10
Hexachlorobenzene	<10	<10	<10	<10	<10	<10
Hexachlorobutadiene	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-2A	MW-2B	MW-2R	MW-3	MW-4	MW-4
Laboratory Log Number:	33733-3	33733-4	32911-1	33805-2	33805-4	37166-1
Date Sampled:	6/6/91	6/6/91	4/25/91	6/11/91	6/11/91	10/29/91
Parameter (concentrations in ug/L)						
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10
Hexachloroethane	<10	<10	<10	<10	<10	<10
Hexachloropropene	<10	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene	<10	<10	<10	<10	<10	<10
Isophorone	<10	<10	<10	<10	<10	<10
Isosafrole	<10	<10	<10	<10	<10	<10
Methapyrilene	<100	<100	<100	<100	<100	<100
3-Methylcholanthrene	<10	<10	<10	<10	<10	<10
Methylmethanesulfonate	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	<10	<10	<10	<10	<10	<10
Naphthalene	<10	<10	<10	<10	<10	<10
1,4-Naphthoquinone	<10	<10	<10	<10	<10	<10
1-Naphthylamine	<10	<10	<10	<10	<10	<10
2-Naphthylamine	<10	<10	<10	<10	<10	<10
2-Nitroaniline	<50	<50	<50	<50	<50	<50
3-Nitroaniline	<50	<50	<50	<50	<50	<50
4-Nitroaniline	<50	<50	<50	<50	<50	<50
Nitrobenzene	<10	<10	<10	<10	<10	<10
N-Nitrosodi-n-butylamine	<10	<10	<10	<10	<10	<10
N-Nitrosodiethylamine	<20	<20	<20	<20	<20	<20
N-Nitrosodimethylamine	<10	<10	<10	<10	<10	<10
N-Nitrosomethylethylamine	<10	<10	<10	<10	<10	<10
N-Nitrosodiphenylamine/Diphenylamine	<10	<10	<10	<10	<10	<10
N-Nitrosomorpholine	<10	<10	<10	<10	<10	<10
N-Nitrosopiperidine	<20	<20	<20	<20	<20	<20
Nitrosopyrrolidine	<40	<40	<40	<40 I	<40	<40
5-Nitro-o-toluidine	<10	<10	<10	<10	<10	<10
Pentachlorobenzene	<10	<10	<10	<10	<10	<10
Pentachloronitrobenzene	<100	<100	<100	<100	<100	<100
Phenacetin	<20	<20	<20	<20	<20	<20
Phenanthrene	<10	<10	<10	<10	<10	<10
2-Picoline	<10	<10	<10	<10	<10	<10
Pronamide	<10	<10	<10	<10	<10	<10
Pyrene	<10	<10	<10	<10	<10	<10
Safrole	<10	<10	<10	<10	<10	<10
1,2,4,5-Tetrachlorobenzene	<10	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene	<10	<10	<10	<10	**13**	**22**
2-Chlorophenol	<10	<10	<10	<10	<10	<10
Cresol m&p	<10	<10	<10	<10	<10	<10
o-Cresol	<10	<10	<10	<10	<10	<10
4-Nitrophenol	<50	<50	<50	<50	<50	<50
2,4-Dichlorophenol	<10	<10	<10	<10	<10	<10
2,6-Dichlorophenol	<10	<10	<10	<10	<10	<10
2,4-Dimethylphenol	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-2A	MW-2B	MW-2R	MW-3	MW-4	MW-4
Laboratory Log Number:	33733-3	33733-4	32911-1	33805-2	33805-4	37166-1
Date Sampled:	6/6/91	6/6/91	4/25/91	6/11/91	6/11/91	10/29/91
Parameter (concentrations in ug/L)						
4,6-Dinitro-2-methylphenol	<50	<50	<50	<50	<50	<50
2,4-Dinitrophenol	<50	<50	<50	<50	<50	<50
Pentachlorophenol	<50	<50	<50	<50	<50	<50
Phenol	<10	<10	<10	<10	<10	<10
2,4,5-Trichlorophenol	<50	<50	<50	<50	<50	<50
2,4,6-Trichlorophenol	<10	<10	<10	<10	<10	<10
2,3,4,6-Tetrachlorophenol	<10	<10	<10	<10	<10	<10
2-Nitrophenol	<10	<10	<10	<10	<10	<10
Diallate	<10	<10	<10	<10	<10	<10
Ethyl methanesulfonate	<20	<20	<20	<20	<20	<20
4-Nitroquinoline 1-oxide	<100 I	<100 I	<100 I	<100 I	<100 I	<100 I
p-Phenylenediamine	<10	<10	<10	<10	<10	<10
o-Toluidine	<10	<10	<10	<10	<10	<10
o,o,o-Triethyl phosphorothioate	<10	<10	<10	<10	<10	<10
1,3,5-Trinitrobenzene	<50	<50	<50	<50	<50	<50
4-Chloro-3-methylphenol	<10	<10	<10	<10	<10	<10
Dibenzofuran	<10	<10	<10	<10	<10	<10
Pyridine	<10	<10	<10	<10	<10	<10
1,4-Dioxane	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-8A	MW-8A Dup	MW-8A	MW-8A Dup	MW-8B	MW-8B Dup
Laboratory Log Number:	33748-3	33748-4	37146-5	37146-6	33748-5	33748-6
Date Sampled:	6/7/91	6/7/91	10/29/91	10/29/91	6/7/91	6/7/91
Parameter (concentrations in ug/L)						
Acenaphthene	<10	<10	<10	<10	<10	<10
Acenaphthylene	<10	<10	<10	<10	<10	<10
Acetophenone	<10	<10	<10	<10	<10	<10
2-Acetylaminofluorene	<20	<20	<20	<20	<20	<20
4-Aminobiphenyl	<20	<20	<20	<20	<20	<20
Anthracene	<10	<10	<10	<10	<10	<10
Aniline	<10	<10	<10	<10	<10	<10
Benzo(a)anthracene	<10	<10	<10	<10	<10	<10
Benzo(k)fluoranthene	<10	<10	<10	<10	<10	<10
Benzo(b)fluoranthene	<10	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene	<10	<10	<10	<10	<10	<10
Benzo(a)pyrene	<10	<10	<10	<10	<10	<10
Benzyl alcohol	<10	<10	<10	<10	<10	<10
bis(2-Chloroethoxy)methane	<10	<10	<10	<10	<10	<10
bis(2-Choroethyl)ether	<10	<10	<10	<10	<10	<10
bis(2-Chloroisopropyl)ether	<10	<10	<10	<10	<10	<10
bis(2-Ethylhexyl)phthalate	<10	<10	**120**	<10	<10	<10
4-Bromophenyl-phenyl-ether	<10	<10	<10	<10	<10	<10
Butylbenzylphthalate	<10	<10	<10	<10	<10	<10
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	<50	<50	<50	<50	<50	<50
p-Chloroaniline	**22**	**21**	<20	<20	<20	<20
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	**23**	**22**	**27**	**27**	<10	<10
1,2-Dichlorobenzene	**15**	**15**	**19**	**19**	<10	<10
4-Chlorophenyl-phenyl ether	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	<10	<10	<10	<10	<10	<10
Chrysene	<10	<10	<10	<10	<10	<10
Dibenz(a,h)anthracene	<10	<10	<10	<10	<10	<10
Di-n-butylphthalate	<10	<10	<10	<10	<10	<10
3,3'-Dichlorobenzidine	<20	<20	<20	<20	<20	<20
3,3'-Dimethylbenzidine	<10	<10	<10	<10	<10	<10
Diethylphthalate	<10	<10	<10	<10	<10	<10
p-(Dimethylamino)azobenzene	<10	<10	<10	<10	<10	<10
7,12-Dimethylbenz(a)anthracene	<10	<10	<10	<10	<10	<10
a-a-Dimethylphenethylamine	<50	<50	<50	<50	<50	<50
Dimethylphthalate	<10	<10	<10	<10	<10	<10
m-Dinitrobenzene	<50	<50	<50	<50	<50	<50
2,4-Dinitrotoluene	<10	<10	<10	<10	<10	<10
2,6-Dinitrotoluene	<10	<10	<10	<10	<10	<10
Di-n-octylphthalate	<10	<10	<10	<10	<10	<10
N-Nitroso-di-n-propylamine	<10	<10	<10	<10	<10	<10
Fluoranthene	<10	<10	<10	<10	<10	<10
Fluorene	<10	<10	<10	<10	<10	<10
Hexachlorobenzene	<10	<10	<10	<10	<10	<10
Hexachlorobutadiene	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-8A	MW-8A Dup	MW-8A	MW-8A Dup	MW-8B	MW-8B Dup
Laboratory Log Number:	33748-3	33748-4	37146-5	37146-6	33748-5	33748-6
Date Sampled:	6/7/91	6/7/91	10/29/91	10/29/91	6/7/91	6/7/91
Parameter (concentrations in ug/L)						
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10
Hexachloroethane	<10	<10	<10	<10	<10	<10
Hexachloropropene	<10	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene	<10	<10	<10	<10	<10	<10
Isophorone	<10	<10	<10	<10	<10	<10
Isosafrole	<10	<10	<10	<10	<10	<10
Methapyrilene	<100	<100	<100	<100	<100	<100
3-Methylcholanthrene	<10	<10	<10	<10	<10	<10
Methylmethanesulfonate	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	<10	<10	<10	<10	<10	<10
Naphthalene	**15**	<10	<10	<10	<10	<10
1,4-Naphthoquinone	<10	<10	<10	<10	<10	<10
1-Naphthylamine	<10	<10	<10	<10	<10	<10
2-Naphthylamine	<10	<10	<10	<10	<10	<10
2-Nitroaniline	<50	<50	<50	<50	<50	<50
3-Nitroaniline	<50	<50	<50	<50	<50	<50
4-Nitroaniline	<50	<50	<50	<50	<50	<50
Nitrobenzene	<10	<10	<10	<10	<10	<10
N-Nitrosodi-n-butylamine	<10	<10	<10	<10	<10	<10
N-Nitrosodiethylamine	<20	<20	<20	<20	<20	<20
N-Nitrosodimethylamine	<10	<10	<10	<10	<10	<10
N-Nitrosomethylethylamine	<10	<10	<10	<10	<10	<10
N-Nitrosodiphenylamine/Diphenylamine	<10	<10	<10	<10	<10	<10
N-Nitrosomorpholine	<10	<10	<10	<10	<10	<10
N-Nitrosopiperidine	<20	<20	<20	<20	<20	<20
Nitrosopyrrolidine	<40	<40	<40	<40	<40	<40
5-Nitro-o-toluidine	<10	<10	<10	<10	<10	<10
Pentachlorobenzene	<10	<10	<10	<10	<10	<10
Pentachloronitrobenzene	<100	<100	<100	<100	<100	<100
Phenacetin	<20	<20	<20	<20	<20	<20
Phenanthrene	<10	<10	<10	<10	<10	<10
2-Picoline	<10	<10	<10	<10	<10	<10
Pronamide	<10	<10	<10	<10	<10	<10
Pyrene	<10	<10	<10	<10	<10	<10
Safrole	<10	<10	<10	<10	<10	<10
1,2,4,5-Tetrachlorobenzene	<10	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene	<10	<10	<10	<10	<10	<10
2-Chlorophenol	**25**	**20**	**36**	**25**	<10	<10
Cresol m&p	<10	<10	<10	<10	<10	<10
o-Cresol	<10	<10	<10	<10	<10	<10
4-Nitrophenol	<50	<50	<50	<50	<50	<50
2,4-Dichlorophenol	<10	<10	<10	<10	<10	<10
2,6-Dichlorophenol	<10	<10	<10	<10	<10	<10
2,4-Dimethylphenol	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-8A	MW-8A Dup	MW-8A	MW-8A Dup	MW-8B	MW-8B Dup
Laboratory Log Number:	33748-3	33748-4	37146-5	37146-6	33748-5	33748-6
Date Sampled:	6/7/91	6/7/91	10/29/91	10/29/91	6/7/91	6/7/91
Parameter (concentrations in ug/L)						
4,6-Dinitro-2-methylphenol	<50	<50	<50	<50	<50	<50
2,4-Dinitrophenol	<50	<50	<50	<50	<50	<50
Pentachlorophenol	<50	<50	<50	<50	<50	<50
Phenol	<10	<10	<50	<50	<10	<10
2,4,5-Trichlorophenol	<50	<50	<50	<50	<50	<50
2,4,6-Trichlorophenol	<10	<10	<50	<50	<10	<10
2,3,4,6-Tetrachlorophenol	<10	<10	<10	<10	<10	<10
2-Nitrophenol	<10	<10	<10	<10	<10	<10
Diallate	<10	<10	<10	<10	<10	<10
Ethyl methanesulfonate	<20	<20	<20	<20	<20	<20
4-Nitroquinoline 1-oxide	<100 I	<100 I	<100 I	<100 I	<100 I	<100 I
p-Phenylenediamine	<10	<10	<10	<10	<10	<10
o-Toluidine	<10	<10	<10	<10	<10	<10
o,o,o-Triethyl phosphorothioate	<10	<10	<10	<10	<10	<10
1,3,5-Trinitrobenzene	<50	<50	<50	<50	<50	<50
4-Chloro-3-methylphenol	<10	<10	<10	<10	<10	<10
Dibenzofuran	<10	<10	<10	<10	<10	<10
Pyridine	<10	<10	<10	<10	<10	<10
1,4-Dioxane	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-8B	MW-8R	MW-9	MW-10	MW-10	MW-11A
Laboratory Log Number:	37146-4	37146-3	33748-1	33780-1	37166-2	33780-2
Date Sampled:	10/29/91	10/29/91	6/7/91	6/10/91	10/29/91	6/10/91
Parameter (concentrations in ug/L)						
Acenaphthene	<10	<10	<10	<10	<10	<10
Acenaphthylene	<10	<10	<10	<10	<10	<10
Acetophenone	<10	<10	<10	<10	<10	<10
2-Acetylaminofluorene	<20	<20	<20	<20	<20	<20
4-Aminobiphenyl	<20	<20	<20	<20	<20	<20
Anthracene	<10	<10	<10	<10	<10	<10
Aniline	<10	<10	<10	<10	<10	<10
Benzo(a)anthracene	<10	<10	<10	<10	<10	<10
Benzo(k)fluoranthene	<10	<10	<10	<10	<10	<10
Benzo(b)fluoranthene	<10	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene	<10	<10	<10	<10	<10	<10
Benzo(a)pyrene	<10	<10	<10	<10	<10	<10
Benzyl alcohol	<10	<10	<10	<10	<10	<10
bis(2-Chloroethoxy)methane	<10	<10	<10	<10	<10	<10
bis(2-Choroethyl)ether	<10	<10	<10	<10	<10	<10
bis(2-Chloroisopropyl)ether	<10	<10	<10	<10	<10	<10
bis(2-Ethylhexyl)phthalate	<10	<10	<10	**11**	<10	<10
4-Bromophenyl-phenyl-ether	<10	<10	<10	<10	<10	<10
Butylbenzylphthalate	<10	<10	<10	**15**	<10	<10
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	<50	<50	<50	<50	<50	<50
p-Chloroaniline	<20	<20	<20	<20	<20	<20
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	<10
1,2-Dichlorobenzene	<10	<10	<10	<10	<10	<10
4-Chlorophenyl-phenyl ether	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	<10	<10	<10	<10	<10	<10
Chrysene	<10	<10	<10	<10	<10	<10
Dibenz(a,h)anthracene	<10	<10	<10	<10	<10	<10
Di-n-butylphthalate	<10	<10	<10	<10	<10	<10
3,3'-Dichlorobenzidine	<20	<20	<20	<20	<20	<20
3,3'-Dimethylbenzidine	<10	<10	<10	<10	<10	<10
Diethylphthalate	<10	<10	<10	<10	<10	<10
p-(Dimethylamino)azobenzene	<10	<10	<10	<10	<10	<10
7,12-Dimethylbenz(a)anthracene	<10	<10	<10	<10	<10	<10
a-a-Dimethylphenethylamine	<50	<50	<50	<50	<50	<50
Dimethylphthalate	<10	<10	<10	<10	<10	<10
m-Dinitrobenzene	<50	<50	<50	<50	<50	<50
2,4-Dinitrotoluene	<10	<10	<10	<10	<10	<10
2,6-Dinitrotoluene	<10	<10	<10	<10	<10	<10
Di-n-octylphthalate	<10	<10	<10	<10	<10	<10
N-Nitroso-di-n-propylamine	<10	<10	<10	<10	<10	<10
Fluoranthene	<10	<10	<10	<10	<10	<10
Fluorene	<10	<10	<10	<10	<10	<10
Hexachlorobenzene	<10	<10	<10	<10	<10	<10
Hexachlorobutadiene	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-8B	MW-8R	MW-9	MW-10	MW-10	MW-11A
Laboratory Log Number:	37146-4	37146-3	33748-1	33780-1	37166-2	33780-2
Date Sampled:	10/29/91	10/29/91	6/7/91	6/10/91	10/29/91	6/10/91
Parameter (concentrations in ug/L)						
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10
Hexachloroethane	<10	<10	<10	<10	<10	<10
Hexachloropropene	<10	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene	<10	<10	<10	<10	<10	<10
Isophorone	<10	<10	<10	<10	<10	<10
Isosafrole	<10	<10	<10	<10	<10	<10
Methapyrilene	<100	<100	<100	<100	<100	<100
3-Methylcholanthrene	<10	<10	<10	<10	<10	<10
Methylmethanesulfonate	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	<10	<10	<10	<10	<10	<10
Naphthalene	<10	<10	<10	<10	<10	<10
1,4-Naphthoquinone	<10	<10	<10	<10	<10	<10
1-Naphthylamine	<10	<10	<10	<10	<10	<10
2-Naphthylamine	<10	<10	<10	<10	<10	<10
2-Nitroaniline	<50	<50	<50	<50	<50	<50
3-Nitroaniline	<50	<50	<50	<50	<50	<50
4-Nitroaniline	<50	<50	<50	<50	<50	<50
Nitrobenzene	<10	<10	<10	<10	<10	<10
N-Nitrosodi-n-butylamine	<10	<10	<10	<10	<10	<10
N-Nitrosodiethylamine	<20	<20	<20	<20	<20	<20
N-Nitrosodimethylamine	<10	<10	<10	<10	<10	<10
N-Nitrosomethylethylamine	<10	<10	<10	<10	<10	<10
N-Nitrosodiphenylamine/Diphenylamine	<10	<10	<10	<10	<10	<10
N-Nitrosomorpholine	<10	<10	<10	<10	<10	<10
N-Nitrosopiperidine	<20	<20	<20	<20	<20	<20
Nitrosopyrrolidine	<40	<40	<40	<40	<40	<40
5-Nitro-o-toluidine	<10	<10	<10	<10	<10	<10
Pentachlorobenzene	<10	<10	<10	<10	<10	<10
Pentachloronitrobenzene	<100	<100	<100	<100	<100	<100
Phenacetin	<20	<20	<20	<20	<20	<20
Phenanthrene	<10	<10	<10	<10	<10	<10
2-Picoline	<10	<10	<10	<10	<10	<10
Pronamide	<10	<10	<10	<10	<10	<10
Pyrene	<10	<10	<10	<10	<10	<10
Safrole	<10	<10	<10	<10	<10	<10
1,2,4,5-Tetrachlorobenzene	<10	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene	<10	<10	<10	<10	<10	<10
2-Chlorophenol	<10	<10	<10	<10	<10	<10
Cresol m&p	<10	<10	<10	<10	<10	<10
o-Cresol	<10	<10	<10	<10	<10	<10
4-Nitrophenol	<50	<50	<50	<50	<50	<50
2,4-Dichlorophenol	<10	<10	<10	<10	<10	<10
2,6-Dichlorophenol	<10	<10	<10	<10	<10	<10
2,4-Dimethylphenol	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-8B	MW-8R	MW-9	MW-10	MW-10	MW-11A
Laboratory Log Number:	37146-4	37146-3	33748-1	33780-1	37166-2	33780-2
Date Sampled:	10/29/91	10/29/91	6/7/91	6/10/91	10/29/91	6/10/91
Parameter (concentrations in ug/L)						
4,6-Dinitro-2-methylphenol	<50	<50	<50	<50	<50	<50
2,4-Dinitrophenol	<50	<50	<50	<50	<50	<50
Pentachlorophenol	<50	<50	<50	<50	<50	<50
Phenol	<10	<10	<10	<10	<10	<10
2,4,5-Trichlorophenol	<50	<50	<50	<50	<50	<50
2,4,6-Trichlorophenol	<10	<10	<10	<10	<10	<10
2,3,4,6-Tetrachlorophenol	<10	<10	<10	<10	<10	<10
2-Nitrophenol	<10	<10	<10	<10	<10	<10
Diallate	<10	<10	<10	<10	<10	<10
Ethyl methanesulfonate	<20	<20	<20	<20	<20	<20
4-Nitroquinoline 1-oxide	<100 I	<100 I	<100 I	<100 I	<100 I	<100 I
p-Phenylenediamine	<10	<10	<10	<10	<10	<10
o-Toluidine	<10	<10	<10	<10	<10	<10
o,o,o-Triethyl phosphorothioate	<10	<10	<10	<10	<10	<10
1,3,5-Trinitrobenzene	<50	<50	<50	<50	<50	<50
4-Chloro-3-methylphenol	<10	<10	<10	<10	<10	<10
Dibenzofuran	<10	<10	<10	<10	<10	<10
Pyridine	<10	<10	<10	<10	<10	<10
1,4-Dioxane	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-11B	MW-13	MW-13 Dup	MW-13	MW-13	MW-13R
Laboratory Log Number:	33780-3	33780-4	33780-5	37166-3	46405-1	37181-1
Date Sampled:	6/10/91	6/10/91	6/10/91	10/29/91	11/9/93	10/31/91
Parameter (concentrations in ug/L)						
Acenaphthene	<10	**11**	**14**	<10	<200	<10
Acenaphthylene	<10	<10	<10	<10	<200	<10
Acetophenone	<10	<10	<10	<10	<200	<10
2-Acetylaminofluorene	<20	<20	<20	<20	<400	<20
4-Aminobiphenyl	<20	<20	<20	<20	<400	<20
Anthracene	<10	<10	**13**	<10	<200	<10
Aniline	<10	<10	**54**	<10	<200	<10
Benzo(a)anthracene	<10	<10	<10	<10	<200	<10
Benzo(k)fluoranthene	<10	<10	<10	<10	<200	<10
Benzo(b)fluoranthene	<10	<10	<10	<10	<200	<10
Benzo(g,h,i)perylene	<10	<10	<10	<10	<200	<10
Benzo(a)pyrene	<10	<10	<10	<10	<200	<10
Benzyl alcohol	<10	<10	<10	<10	<200	<10
bis(2-Chloroethoxy)methane	<10	<10	<10	<10	<200	<10
bis(2-Choroethyl)ether	<10	<10	<10	<10	<200	<10
bis(2-Chloroisopropyl)ether	<10	<10	<10	<10	<200	<10
bis(2-Ethylhexyl)phthalate	<10	<10	**23**	**59**	<200	**10 J**
4-Bromophenyl-phenyl-ether	<10	<10	<10	<10	<200	<10
Butylbenzylphthalate	<10	<10	<10	<10	<200	<10
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	<50	<50	<50	<50	<1000	<50
p-Chloroaniline	<20	**1,200**	**4,000**	**270**	**2,700**	<20
1,3-Dichlorobenzene	<10	<10	<10	<10	<200	<10
1,4-Dichlorobenzene	<10	<10	<10	<10	<200	<10
1,2-Dichlorobenzene	<10	<10	<10	<10	<200	<10
4-Chlorophenyl-phenyl ether	<10	<10	<10	<10	<200	<10
2-Chloronaphthalene	<10	<10	<10	<10	<200	<10
Chrysene	<10	<10	<10	<10	<200	<10
Dibenz(a,h)anthracene	<10	<10	<10	<10	<200	<10
Di-n-butylphthalate	<10	<10	**22**	<10	<200	<10
3,3'-Dichlorobenzidine	<20	<20	<20	<20	<400	<20
3,3'-Dimethylbenzidine	<10	<10	<10	<10	<200	<10
Diethylphthalate	<10	<10	<10	<10	<200	<10
p-(Dimethylamino)azobenzene	<10	<10	<10	<10	<200	<10
7,12-Dimethylbenz(a)anthracene	<10	<10	<10	<10	<200	<10
a-a-Dimethylphenethylamine	<50	<50	<50	<50	<1000	<50
Dimethylphthalate	<10	<10	<10	<10	<200	<10
m-Dinitrobenzene	<50	<50	<50	<50	<1000	<50
2,4-Dinitrotoluene	<10	<10	<10	<10	<200	<10
2,6-Dinitrotoluene	<10	<10	<10	<10	<200	<10
Di-n-octylphthalate	<10	<10	<10	<10	<200	<10
N-Nitroso-di-n-propylamine	<10	<10	<10	<10	<200	<10
Fluoranthene	<10	**21**	**22**	<10	<200	<10
Fluorene	<10	**12**	**18**	<10	<200	<10
Hexachlorobenzene	<10	<10	<10	<10	<200	<10
Hexachlorobutadiene	<10	<10	<10	<10	<200	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-11B	MW-13	MW-13 Dup	MW-13	MW-13	MW-13R
Laboratory Log Number:	33780-3	33780-4	33780-5	37166-3	46405-1	37181-1
Date Sampled:	6/10/91	6/10/91	6/10/91	10/29/91	11/9/93	10/31/91
Parameter (concentrations in ug/L)						
Hexachlorocyclopentadiene	<10	<10	<10	<10	<200	<10
Hexachloroethane	<10	<10	<10	<10	<200	<10
Hexachloropropene	<10	<10	<10	<10	<200	<10
Indeno(1,2,3-cd)pyrene	<10	<10	<10	<10	<200	<10
Isophorone	<10	<10	<10	<10	<200	<10
Isosafrole	<10	<10	<10	<10	<200	<10
Methapyrilene	<100	<100	<100	<100	<2000	<100
3-Methylcholanthrene	<10	<10	<10	<10	<200	<10
Methylmethanesulfonate	<10	<10	<10	<10	<200	<10
2-Methylnaphthalene	<10	<10	<10	<10	<200	<10
Naphthalene	<10	<10	<10	<10	<200	<10
1,4-Naphthoquinone	<10	<10	<10	<10	<200	<10
1-Naphthylamine	<10	<10	<10	<10	<200	<10
2-Naphthylamine	<10	<10	<10	<10	<200	<10
2-Nitroaniline	<50	<50	<50	<50	<1000	<50
3-Nitroaniline	<50	<50	<50	<50	<1000	<50
4-Nitroaniline	<50	<50	<50	<50	<1000	<50
Nitrobenzene	<10	<10	<10	<10	<200	<10
N-Nitrosodi-n-butylamine	<10	<10	<10	<10	<200	<10
N-Nitrosodiethylamine	<20	<20	<20	<20	<400	<20
N-Nitrosodimethylamine	<10	<10	<10	<10	<200	<10
N-Nitrosomethylethylamine	<10	<10	<10	<10	<200	<10
N-Nitrosodiphenylamine/Diphenylamine	<10	<10	<10	<10	<200	<10
N-Nitrosomorpholine	<10	<10	<10	<10	<200	<10
N-Nitrosopiperidine	<20	<20	<20	<20	<400	<20
Nitrosopyrrolidine	<40	<40	<40	<40	<800	<40
5-Nitro-o-toluidine	<10	<10	<10	<10	<200	<10
Pentachlorobenzene	<10	<10	<10	<10	<200	<10
Pentachloronitrobenzene	<100	<100	<100	<100	<2000	<100
Phenacetin	<20	<20	<20	<20	<400	<20
Phenanthrene	<10	<10	**16**	<10	<200	<10
2-Picoline	<10	<10	<10	<10	<200	<10
Pronamide	<10	<10	<10	<10	<200	<10
Pyrene	<10	**22**	**24**	<10	<200	<10
Safrole	<10	<10	<10	<10	<200	<10
1,2,4,5-Tetrachlorobenzene	<10	<10	<10	<10	<200	<10
1,2,4-Trichlorobenzene	<10	<10	<10	<10	<200	<10
2-Chlorophenol	<10	<10	<10	<10	NA	<10
Cresol m&p	<10	<10	<10	<10	NA	<10
o-Cresol	<10	<10	<10	<10	NA	<10
4-Nitrophenol	<50	<50	<50	<50	NA	<50
2,4-Dichlorophenol	<10	<10	<10	<10	NA	<10
2,6-Dichlorophenol	<10	<10	<10	<10	NA	<10
2,4-Dimethylphenol	<10	<10	<10	<10	NA	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-11B	MW-13	MW-13 Dup	MW-13	MW-13	MW-13R
Laboratory Log Number:	33780-3	33780-4	33780-5	37166-3	46405-1	37181-1
Date Sampled:	6/10/91	6/10/91	6/10/91	10/29/91	11/9/93	10/31/91
Parameter (concentrations in ug/L)						
4,6-Dinitro-2-methylphenol	<50	<50	<50	<50	NA	<50
2,4-Dinitrophenol	<50	<50	<50	<50	NA	<50
Pentachlorophenol	<50	<50	<50	<50	NA	<50
Phenol	<10	<10	<10	<10	NA	<10
2,4,5-Trichlorophenol	<50	<50	<50	<50	NA	<50
2,4,6-Trichlorophenol	<10	<10	<10	<10	NA	<10
2,3,4,6-Tetrachlorophenol	<10	<10	<10	<10	NA	<10
2-Nitrophenol	<10	<10	<10	<10	NA	<10
Diallate	<10	<10	<10	<10	<200	<10
Ethyl methanesulfonate	<20	<20	<20	<20	<400	<20
4-Nitroquinoline 1-oxide	<100 I	<100 I	<100 I	<100 I	<2000 I	<100 I
p-Phenylenediamine	<10	<10	<10	<10	<200	<10
o-Toluidine	<10	<10	<10	<10	<200	<10
o,o,o-Triethyl phosphorothioate	<10	<10	<10	<10	<200	<10
1,3,5-Trinitrobenzene	<50	<50	<50	<50	<1000	<50
4-Chloro-3-methylphenol	<10	<10	<10	<10	NA	<10
Dibenzofuran	<10	<10	<10	<10	<200	<10
Pyridine	<10	<10	<10	<10	<200	<10
1,4-Dioxane	<10	<10	<10	<10	<200	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-13A	MW-13B	MW-13C	MW-13D	MW-13F	MW-15
Laboratory Log Number:	46405-18	46405-16	46405-17	46405-15	46405-14	33805-3
Date Sampled:	11/9/93	11/9/93	11/9/93	11/10/93	11/10/93	6/11/91
Parameter (concentrations in ug/L)						
Acenaphthene	3.7 J	14	2.2 J	<10	5.4 J	<10
Acenaphthylene	1.6 J	<10	<10	<10	<10	<10
Acetophenone	<10	4.2 J	<10	<10	<10	<10
2-Acetylaminofluorene	<20	<20	<20	<20	<20	<20
4-Aminobiphenyl	<20	<20	<20	<20	<20	<20
Anthracene	7.7 J	39	11	2.2 J	6.1 J	<10
Aniline	<10	<10	<10	<10	<10	<10
Benzo(a)anthracene	5.8 J	28	1.0 J	4.7 J	14	<10
Benzo(k)fluoranthene	2.5 J	7.0 J	<10	2.6 J	6.3 J	<10
Benzo(b)fluoranthene	5.4 J	53	<10	6.4 J	18	<10
Benzo(g,h,i)perylene	2.0 J	12	<10	2.2 J	6.0 J	<10
Benzo(a)pyrene	<10	28	<10	<10	14	<10
Benzyl alcohol	<10	<10	<10	<10	<10	<10
bis(2-Chloroethoxy)methane	<10	<10	<10	<10	<10	<10
bis(2-Choroethyl)ether	<10	<10	<10	<10	<10	<10
bis(2-Chloroisopropyl)ether	<10	<10	<10	<10	<10	<10
bis(2-Ethylhexyl)phthalate	<10	<10	<10	1.8 J	<10	<10
4-Bromophenyl-phenyl-ether	<10	<10	<10	<10	<10	<10
Butylbenzylphthalate	<10	<10	<10	<10	<10	<10
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	<50	<50	<50	<50	<50	<50
p-Chloroaniline	<20	<20	<20	<20	120 J	<20
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	<10
1,2-Dichlorobenzene	<10	<10	<10	<10	<10	<10
4-Chlorophenyl-phenyl ether	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	<10	<10	<10	<10	<10	<10
Chrysene	6.6 J	34	<10	6.3 J	18	<10
Dibenz(a,h)anthracene	<10	3.6 J	<10	<10	1.9 J	<10
Di-n-butylphthalate	<10	<10	<10	<10	<10	<10
3,3'-Dichlorobenzidine	<20	<20	<20	<20	<20	<20
3,3'-Dimethylbenzidine	<10	<10	<10	<10	<10	<10
Diethylphthalate	<10	63	<10	4.2 J	2.9 J	<10
p-(Dimethylamino)azobenzene	<10	<10	<10	<10	<10	<10
7,12-Dimethylbenz(a)anthracene	<10	<10	<10	<10	<10	<10
a-a-Dimethylphenethylamine	<50	<50	<50	<50	<50	<50
Dimethylphthalate	<10	<10	<10	<10	<10	<10
m-Dinitrobenzene	<50	<50	<50	<50	<50	<50
2,4-Dinitrotoluene	<10	<10	<10	<10	<10	<10
2,6-Dinitrotoluene	<10	<10	<10	<10	<10	<10
Di-n-octylphthalate	<10	<10	<10	<10	<10	<10
N-Nitroso-di-n-propylamine	<10	<10	<10	<10	<10	<10
Fluoranthene	15	80	3.6 J	12	31	<10
Fluorene	8.4 J	74	3.2 J	1.7 J	5.1 J	<10
Hexachlorobenzene	<10	<10	<10	<10	<10	<10
Hexachlorobutadiene	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-13A	MW-13B	MW-13C	MW-13D	MW-13F	MW-15
Laboratory Log Number:	46405-18	46405-16	46405-17	46405-15	46405-14	33805-3
Date Sampled:	11/9/93	11/9/93	11/9/93	11/10/93	11/10/93	6/11/91
Parameter (concentrations in ug/L)						
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10
Hexachloroethane	<10	<10	<10	<10	<10	<10
Hexachloropropene	<10	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene	**2.0 J**	**14**	<10	**2.3 J**	**6.6 J**	<10
Isophorone	<10	<10	<10	<10	<10	<10
Isosafrole	<10	<10	<10	<10	<10	<10
Methapyrilene	<100	<100	<100	<100	<100	<100
3-Methylcholanthrene	<10	<10	<10	<10	<10	<10
Methylmethanesulfonate	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	**5.8 J**	**28**	<10	<10	**1.6 J**	<10
Naphthalene	**13**	**29**	<10	**3.1 J**	**2.6 J**	<10
1,4-Naphthoquinone	<10	<10	<10	<10	<10	<10
1-Naphthylamine	<10	<10	<10	<10	<10	<10
2-Naphthylamine	<10	<10	<10	<10	<10	<10
2-Nitroaniline	<50	<50	<50	<50	<50	<50
3-Nitroaniline	<50	<50	<50	<50	<50	<50
4-Nitroaniline	<50	<50	<50	<50	<50	<50
Nitrobenzene	<10	<10	<10	<10	<10	<10
N-Nitrosodi-n-butylamine	<10	<10	<10	<10	<10	<10
N-Nitrosodiethylamine	<20	<20	<20	<20	<20	<20
N-Nitrosodimethylamine	<10	<10	<10	<10	<10	<10
N-Nitrosomethylethylamine	<10	<10	<10	<10	<10	<10
N-Nitrosodiphenylamine/Diphenylamine	<10	<10	<10	<10	<10	<10
N-Nitrosomorpholine	<10	<10	<10	<10	<10	<10
N-Nitrosopiperidine	<20	<20	<20	<20	<20	<20
Nitrosopyrrolidine	<40	<40	<40	<40	<40	<40
5-Nitro-o-toluidine	<10	<10	<10	<10	<10	<10
Pentachlorobenzene	<10	<10	<10	<10	<10	<10
Pentachloronitrobenzene	<100	<100	<100	<100	<100	<100
Phenacetin	<20	<20	<20	<20	<20	<20
Phenanthrene	**22**	**140**	**6.3 J**	**6.9 J**	**16**	<10
2-Picoline	<10	<10	<10	<10	<10	<10
Pronamide	<10	<10	<10	<10	<10	<10
Pyrene	**13**	**84**	**3.3 J**	**11**	**31**	<10
Safrole	<10	<10	<10	<10	<10	<10
1,2,4,5-Tetrachlorobenzene	<10	**2.5 J**	<10	<10	<10	<10
1,2,4-Trichlorobenzene	<10	**1.3 J**	<10	<10	<10	<10
2-Chlorophenol	NA	NA	NA	NA	NA	<10
Cresol m&p	NA	NA	NA	NA	NA	<10
o-Cresol	NA	NA	NA	NA	NA	<10
4-Nitrophenol	NA	NA	NA	NA	NA	<50
2,4-Dichlorophenol	NA	NA	NA	NA	NA	<10
2,6-Dichlorophenol	NA	NA	NA	NA	NA	<10
2,4-Dimethylphenol	NA	NA	NA	NA	NA	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-13A	MW-13B	MW-13C	MW-13D	MW-13F	MW-15
Laboratory Log Number:	46405-18	46405-16	46405-17	46405-15	46405-14	33805-3
Date Sampled:	11/9/93	11/9/93	11/9/93	11/10/93	11/10/93	6/11/91
Parameter (concentrations in ug/L)						
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	<50
2,4-Dinitrophenol	NA	NA	NA	NA	NA	<50
Pentachlorophenol	NA	NA	NA	NA	NA	<50
Phenol	NA	NA	NA	NA	NA	<10
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	<50
2,4,6-Trichlorophenol	NA	NA	NA	NA	NA	<10
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA	NA	<10
2-Nitrophenol	NA	NA	NA	NA	NA	<10
Diallate	<10	<10	<10	<10	<10	<10
Ethyl methanesulfonate	<20	<20	<20	<20	<20	<20
4-Nitroquinoline 1-oxide	<100	<100	<100	<100	<100	<100 I
p-Phenylenediamine	<10	<10	<10	<10	<10	<10
o-Toluidine	<10	<10	<10	<10	<10	<10
o,o,o-Triethyl phosphorothioate	<10	<10	<10	<10	<10	<10
1,3,5-Trinitrobenzene	<50	<50	<50	<50	<50	<50
4-Chloro-3-methylphenol	NA	NA	NA	NA	NA	<10
Dibenzofuran	**5.0 J**	**9.5 J**	<10	<10	**1.8 J**	<10
Pyridine	<10	<10	<10	<10	<10	<10
1,4-Dioxane	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-20	TW-1	TW-1	OBS-1	OBS-1	HW-1B
Laboratory Log Number:	33748-2	33672-1	37181-4	33693-3	37181-2	33693-1
Date Sampled:	6/7/91	6/4/91	10/31/91	6/5/91	10/31/91	6/5/91
Parameter (concentrations in ug/L)						
Acenaphthene	<10	<10	<10	<10	<10	<10
Acenaphthylene	<10	<10	<10	<10	<10	<10
Acetophenone	<10	<10	<10	<10	<10	<10
2-Acetylaminofluorene	<20	<20	<20	<20	<20	<20
4-Aminobiphenyl	<20	<20	<20	<20	<20	<20
Anthracene	<10	<10	<10	<10	<10	<10
Aniline	<10	**27/11**	<10	<10	<10	<10
Benzo(a)anthracene	<10	<10	<10	<10	<10	<10
Benzo(k)fluoranthene	<10	<10	<10	<10	<10	<10
Benzo(b)fluoranthene	<10	<10	<10	<10	<10	<10
Benzo(g,h,i)perylene	<10	<10	<10	<10	<10	<10
Benzo(a)pyrene	<10	<10	<10	<10	<10	<10
Benzyl alcohol	<10	<10	<10	<10	<10	<10
bis(2-Chloroethoxy)methane	<10	<10	<10	<10	<10	<10
bis(2-Choroethyl)ether	<10	<10	<10	<10	<10	<10
bis(2-Chloroisopropyl)ether	<10	<10	<10	<10	<10	<10
bis(2-Ethylhexyl)phthalate	<10	<10	<10	<10	<10	<10
4-Bromophenyl-phenyl-ether	<10	<10	<10	<10	<10	<10
Butylbenzylphthalate	<10	<10	<10	<10	<10	<10
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	<50	<50	<50	<50	<50	<50
p-Chloroaniline	<20	<20	<20	**97**	**82**	<20
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	<10	**35/18**	**15**	**43**	**13**	<10
1,2-Dichlorobenzene	<10	**28/15**	**9.8**	**38**	**10**	<10
4-Chlorophenyl-phenyl ether	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	<10	<10	<10	<10	<10	<10
Chrysene	<10	<10	<10	<10	<10	<10
Dibenz(a,h)anthracene	<10	<10	<10	<10	<10	<10
Di-n-butylphthalate	<10	<10	<10	<10	<10	<10
3,3'-Dichlorobenzidine	<20	<20	<20	<20	<20	<20
3,3'-Dimethylbenzidine	<10	<10	<10	<10	<10	<10
Diethylphthalate	<10	<10	<10	<10	<10	<10
p-(Dimethylamino)azobenzene	<10	<10	<10	<10	<10	<10
7,12-Dimethylbenz(a)anthracene	<10	<10	<10	<10	<10	<10
a-a-Dimethylphenethylamine	<50	<50	<50	<50	<50	<50
Dimethylphthalate	<10	<10	<10	<10	<10	<10
m-Dinitrobenzene	<50	<50	<50	<50	<50	<50
2,4-Dinitrotoluene	<10	<10	<10	<10	<10	<10
2,6-Dinitrotoluene	<10	<10	<10	<10	<10	<10
Di-n-octylphthalate	<10	<10	<10	<10	<10	<10
N-Nitroso-di-n-propylamine	<10	<10	<10	<10	<10	<10
Fluoranthene	<10	<10	<10	<10	<10	<10
Fluorene	<10	<10	<10	<10	<10	<10
Hexachlorobenzene	<10	<10	<10	<10	<10	<10
Hexachlorobutadiene	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-20	TW-1	TW-1	OBS-1	OBS-1	HW-1B
Laboratory Log Number:	33748-2	33672-1	37181-4	33693-3	37181-2	33693-1
Date Sampled:	6/7/91	6/4/91	10/31/91	6/5/91	10/31/91	6/5/91
Parameter (concentrations in ug/L)						
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10
Hexachloroethane	<10	<10	<10	<10	<10	<10
Hexachloropropene	<10	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene	<10	<10	<10	<10	<10	<10
Isophorone	<10	<10	<10	<10	<10	<10
Isosafrole	<10	<10	<10	<10	<10	<10
Methapyrilene	<100	<100	<100	<100	<100	<100
3-Methylcholanthrene	<10	<10	<10	<10	<10	<10
Methylmethanesulfonate	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	<10	<10	<10	<10	<10	<10
Naphthalene	<10	<10	<10	<10	<10	<10
1,4-Naphthoquinone	<10	<10	<10	<10	<10	<10
1-Naphthylamine	<10	<10	<10	<10	<10	<10
2-Naphthylamine	<10	<10	<10	<10	<10	<10
2-Nitroaniline	<50	<50	<50	<50	<50	<50
3-Nitroaniline	<50	<50	<50	<50	<50	<50
4-Nitroaniline	<50	<50	<50	<50	<50	<50
Nitrobenzene	<10	<10	<10	<10	<10	<10
N-Nitrosodi-n-butylamine	<10	<10	<10	<10	<10	<10
N-Nitrosodiethylamine	<20	<20	<20	<20	<20	<20
N-Nitrosodimethylamine	<10 I	<10	<10	<10 I	<10	<10 I
N-Nitrosomethylethylamine	<10	<10	<10	<10	<10	<10
N-Nitrosodiphenylamine/Diphenylamine	<10	<10	<10	<10	<10	<10
N-Nitrosomorpholine	<10	<10	<10	<10	<10	<10
N-Nitrosopiperidine	<20	<20	<20	<20	<20	<20
Nitrosopyrrolidine	<40	<40	<40	<40	<40	<40
5-Nitro-o-toluidine	<10	<10	<10	<10	<10	<10
Pentachlorobenzene	<10	<10	<10	<10	<10	<10
Pentachloronitrobenzene	<100	<100	<100	<100	<100	<100
Phenacetin	<20	<20	<20	<20	<20	<20
Phenanthrene	<10	<10	<10	<10	<10	<10
2-Picoline	<10	<10	<10	<10	<10	<10
Pronamide	<10	<10	<10	<10	<10	<10
Pyrene	<10	<10	<10	<10	<10	<10
Safrole	<10	<10	<10	<10	<10	<10
1,2,4,5-Tetrachlorobenzene	<10	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene	<10	<10	<10	<10	<10	<10
2-Chlorophenol	<10	<10 I	<10	<10	<10	<10
Cresol m&p	<10	<10 I	<10	<10	<10	<10
o-Cresol	<10	<10 I	<10	<10	<10	<10
4-Nitrophenol	<50	<50 I	<50	<50	<50	<50
2,4-Dichlorophenol	<10	<10 I	<10	<10	<10	<10
2,6-Dichlorophenol	<10	<10 I	<10	<10	<10	<10
2,4-Dimethylphenol	<10	<10 I	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-20	TW-1	TW-1	OBS-1	OBS-1	HW-1B
Laboratory Log Number:	33748-2	33672-1	37181-4	33693-3	37181-2	33693-1
Date Sampled:	6/7/91	6/4/91	10/31/91	6/5/91	10/31/91	6/5/91
Parameter (concentrations in ug/L)						
4,6-Dinitro-2-methylphenol	<50	<50 I	<50	<50	<50	<50
2,4-Dinitrophenol	<50	<50 I	<50	<50	<50	<50
Pentachlorophenol	<50	<50 I	<50	<50	<50	<50
Phenol	<10	<10 I	<10	<10	<10	<10
2,4,5-Trichlorophenol	<50	<50 I	<50	<50	<50	<50
2,4,6-Trichlorophenol	<10	<10 I	<10	<10	<10	<10
2,3,4,6-Tetrachlorophenol	<10	<10 I	<10	<10	<10	<10
2-Nitrophenol	<10	<10 I	<10	<10	<10	<10
Diallate	<10	<10	<10	<10	<10	<10
Ethyl methanesulfonate	<20	<20	<20	<20	<20	<20
4-Nitroquinoline 1-oxide	<100 I	<100 I	<100 I	<100 I	<100 I	<100 I
p-Phenylenediamine	<10	<10	<10	<10	<10	<10
o-Toluidine	<10	<10	<10	<10	<10	<10
o,o,o-Triethyl phosphorothioate	<10	<10	<10	<10	<10	<10
1,3,5-Trinitrobenzene	<50	<50	<50	<50	<50	<50
4-Chloro-3-methylphenol	<10	<10 I	<10	<10	<10	<10
Dibenzofuran	<10	<10	<10	<10	<10	<10
Pyridine	<10	<10	<10	<10	<10	<10
1,4-Dioxane	<10	<10	<10	<10	<10	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	QS-1	QS-1	VW-2	VW-2	VW-2B
Laboratory Log Number:	33693-2	37181-3	33733-1	37146-1	33733-2
Date Sampled:	6/5/91	10/31/91	6/6/91	10/29/91	6/6/91
Parameter (concentrations in ug/L)					
Acenaphthene	**11**	<10	<10	<1,000	<10
Acenaphthylene	<10	<10	<10	<1,000	<10
Acetophenone	<10	<10	<10	<1,000	<10
2-Acetylaminofluorene	<20	<20	<20	<2,000	<20
4-Aminobiphenyl	<20	<20	<20	<2,000	<20
Anthracene	<10	<10	<10	<1,000	<10
Aniline	<10	<10	<10	<1,000	<10
Benzo(a)anthracene	<10	<10	<10	<1,000	<10
Benzo(k)fluoranthene	<10	<10	<10	<1,000	<10
Benzo(b)fluoranthene	<10	<10	<10	<1,000	<10
Benzo(g,h,i)perylene	<10	<10	<10	<1,000	<10
Benzo(a)pyrene	<10	<10	<10	<1,000	<10
Benzyl alcohol	<10	<10	<10	<1,000	<10
bis(2-Chloroethoxy)methane	<10	<10	<10	<1,000	<10
bis(2-Choroethyl)ether	<10	<10	<10	<1,000	<10
bis(2-Chloroisopropyl)ether	<10	<10	<10	<1,000	<10
bis(2-Ethylhexyl)phthalate	<10	**56 J**	<10	<1,000	<10
4-Bromophenyl-phenyl-ether	<10	<10	<10	<1,000	<10
Butylbenzylphthalate	<10	<10	<10	<1,000	<10
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	<50	<50	<50	<5,000	<50
p-Chloroaniline	<20	<20	<20	<2,000	<20
1,3-Dichlorobenzene	<10	<10	<10	<1,000	<10
1,4-Dichlorobenzene	<10	<10	<10	<1,000	<10
1,2-Dichlorobenzene	<10	<10	<10	<1,000	<10
4-Chlorophenyl-phenyl ether	<10	<10	<10	<1,000	<10
2-Chloronaphthalene	<10	<10	<10	<1,000	<10
Chrysene	<10	<10	<10	<1,000	<10
Dibenz(a,h)anthracene	<10	<10	<10	<1,000	<10
Di-n-butylphthalate	<10	<10	<10	<1,000	<10
3,3'-Dichlorobenzidine	<20	<20	<20	<2,000	<20
3,3'-Dimethylbenzidine	<10	<10	<10	<1,000	<10
Diethylphthalate	<10	<10	<10	<1,000	<10
p-(Dimethylamino)azobenzene	<10	<10	<10	<1,000	<10
7,12-Dimethylbenz(a)anthracene	<10	<10	<10	<1,000	<10
a-a-Dimethylphenethylamine	<50	<50	<50	<5,000	<50
Dimethylphthalate	<10	<10	<10	<1,000	<10
m-Dinitrobenzene	<50	<50	<50	<5,000	<50
2,4-Dinitrotoluene	<10	<10	<10	<1,000	<10
2,6-Dinitrotoluene	<10	<10	<10	<1,000	<10
Di-n-octylphthalate	<10	<10	**23**	<1,000	<10
N-Nitroso-di-n-propylamine	<10	<10	<10	<1,000	<10
Fluoranthene	**14**	<10	<10	<1,000	<10
Fluorene	**10**	<10	<10	<1,000	<10
Hexachlorobenzene	<10	<10	<10	<1,000	<10
Hexachlorobutadiene	<10	<10	<10	<1,000	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	QS-1	QS-1	VW-2	VW-2	VW-2B
Laboratory Log Number:	33693-2	37181-3	33733-1	37146-1	33733-2
Date Sampled:	6/5/91	10/31/91	6/6/91	10/29/91	6/6/91
Parameter (concentrations in ug/L)					
Hexachlorocyclopentadiene	<10	<10	<10	<1,000	<10
Hexachloroethane	<10	<10	<10	<1,000	<10
Hexachloropropene	<10	<10	<10	<1,000	<10
Indeno(1,2,3-cd)pyrene	<10	<10	<10	<1,000	<10
Isophorone	<10	<10	<10	<1,000	<10
Isosafrole	<10	<10	<10	<1,000	<10
Methapyrilene	<100	<100	<100	<10,000	<100
3-Methylcholanthrene	<10	<10	<10	<1,000	<10
Methylmethanesulfonate	<10	<10	<10	<1,000	<10
2-Methylnaphthalene	<10	<10	<10	<1,000	<10
Naphthalene	**31**	**29**	<10	<1,000	<10
1,4-Naphthoquinone	<10	<10	<10	<1,000	<10
1-Naphthylamine	<10	<10	<10	<1,000	<10
2-Naphthylamine	<10	<10	<10	<1,000	<10
2-Nitroaniline	<50	<50	<50	<5,000	<50
3-Nitroaniline	<50	<50	<50	<5,000	<50
4-Nitroaniline	<50	<50	<50	<5,000	<50
Nitrobenzene	<10	<10	<10	<1,000	<10
N-Nitrosodi-n-butylamine	<10	<10	<10	<1,000	<10
N-Nitrosodiethylamine	<20	<20	<20	<2,000	<20
N-Nitrosodimethylamine	<10 I	<10	<10	<1,000	<10
N-Nitrosomethylethylamine	<10	<10	<10	<1,000	<10
N-Nitrosodiphenylamine/Diphenylamine	<10	<10	<10	<1,000	<10
N-Nitrosomorpholine	<10	<10	<10	<1,000	<10
N-Nitrosopiperidine	<20	<20	<20	<2,000	<20
Nitrosopyrrolidine	<40	<40	<40	<4,000	<40
5-Nitro-o-toluidine	<10	<10	<10	<1,000	<10
Pentachlorobenzene	<10	<10	<10	<1,000	<10
Pentachloronitrobenzene	<100	<100	<100	<10,000	<100
Phenacetin	<20	<20	<20	<2,000	<20
Phenanthrene	**31**	**15**	<10	<1,000	<10
2-Picoline	<10	<10	<10	<1,000	<10
Pronamide	<10	<10	<10	<1,000	<10
Pyrene	**15**	<10	<10	<1,000	<10
Safrole	<10	<10	<10	<1,000	<10
1,2,4,5-Tetrachlorobenzene	<10	<10	<10	<1,000	<10
1,2,4-Trichlorobenzene	<10	<10	<10	<1,000	<10
2-Chlorophenol	<10	<10	**16**	<1,000	<10
Cresol m&p	<10	<10	<10	<1,000	<10
o-Cresol	<10	<10	<10	<1,000	<10
4-Nitrophenol	<50	<50	<50	<5,000	<50
2,4-Dichlorophenol	<10	<10	<10	<1,000	<10
2,6-Dichlorophenol	<10	<10	<10	<1,000	<10
2,4-Dimethylphenol	<10	<10	<10	<1,000	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table 4-6. Acid and Base/Neutral Compounds in Ground Water, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	QS-1	QS-1	VW-2	VW-2	VW-2B
Laboratory Log Number:	33693-2	37181-3	33733-1	37146-1	33733-2
Date Sampled:	6/5/91	10/31/91	6/6/91	10/29/91	6/6/91
Parameter (concentrations in ug/L)					
4,6-Dinitro-2-methylphenol	<50	<50	<50	<5,000	<50
2,4-Dinitrophenol	<50	<50	<50	<5,000	<50
Pentachlorophenol	<50	<50	<50	<5,000	<50
Phenol	<10	<10	<10	<1,000	<10
2,4,5-Trichlorophenol	<50	<50	<50	<5,000	<50
2,4,6-Trichlorophenol	<10	<10	<10	<1,000	<10
2,3,4,6-Tetrachlorophenol	<10	<10	<10	<1,000	<10
2-Nitrophenol	<10	<10	<10	<1,000	<10
Diallate	<10	<10	<10	<1,000	<10
Ethyl methanesulfonate	<20	<20	<20	<2,000	<20
4-Nitroquinoline 1-oxide	<100 I	<100 I	<100 I	<10,000 I	<100 I
p-Phenylenediamine	<10	<10	<10	<1,000	<10
o-Toluidine	<10	<10	<10	<1,000	<10
o,o,o-Triethyl phosphorothioate	<10	<10	<10	<1,000	<10
1,3,5-Trinitrobenzene	<50	<50	<50	<5,000	<50
4-Chloro-3-methylphenol	<10	<10	<10	<1,000	<10
Dibenzofuran	<10	<10	<10	<1,000	<10
Pyridine	<10	<10	<10	<1,000	<10
1,4-Dioxane	<10	<10	<10	<1,000	<10

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table _. Alachlor in Groundwater, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	GM-1	GM-1A	GM-1B	GM-1C	GM-3	GM-5	MW-3	MW-4
Laboratory Sample Number:	46405-2	46405-7	46405-8	46405-6	46405-3	46405-4	46405-9	46405-10
Date Sampled:	11/9/93	11/10/93	11/10/93	11/10/93	11/9/93	11/8/93	11/10/93	11/9/93
Parameter (concentrations in ug/L)								
Alachlor	**67,000**	**1.4 J**	<1.0	<1.0	**710**	**1.2 J**	**1.0**	**36**

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.

Table _. Alachlor in Groundwater, J.F. Queeny Plant, Monsanto Chemical Company, St. Louis, Missouri.

Sample ID:	MW-5	MW-11B	MW-14	MW-15	QS-1
Laboratory Sample Number:	46405-11	46405-12	46405-5	46405-25	46405-13
Date Sampled:	11/9/93	11/9/93	11/9/93	11/10/93	11/9/93
Parameter (concentrations in ug/L)					
Alachlor	<1.0	<1.0 I	**85,000**	**18 J**	**2.3 J**

ug/L Micrograms per liter.
I Data invalid.
J Estimated value.