

To: Edward Hanlon/DC/USEPA/US@EPA
Date: 04/06/2010 09:33 PM
Subject: Wetzel Co WV contamination

The only source of water on local farms.

Here are water tests results, we have many more. The two road tests were of water sprayed on the Macedonia Ridge Road both contaminated

Marilyn Hunt

Volatile Organics Summary

Sample Name B Hall 1/31/10
 Misc Info Headspace in vial
 Date Acquired 2/16/2010 12:25
 Data File Name E021610-07.D

Results reported in ug/L (ppb)

Compound	Amount	Compound	Amount
1,1,1,2-Tetrachloroethane	< 1.0	Bromomethane	4.22
1,1,1-Trichloroethane	< 1.0	Carbon disulfide	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	Carbon Tetrachloride	< 1.0
1,1,2-Trichloroethane	< 1.0	Chlorobenzene	< 1.0
1,1-Dichloroethane	< 1.0	Chloroethane	1.5
1,1-Dichloroethene	< 1.0	Chloroform	< 1.0
1,1-Dichloropropene	< 1.0	Chloromethane	13.5
1,2,3-Trichlorobenzene	< 1.0	cis-1,2-Dichloroethene	< 1.0
1,2,3-Trichloropropane	< 1.0	cis-1,3-Dichloropropene	< 1.0
1,2,4-Trichlorobenzene	< 1.0	Dibromochloromethane	< 1.0
1,2,4-Trimethylbenzene	1.1	Dibromomethane	< 1.0
1,2-Dibromo-3-chloropropane	< 2.0	Dichlorodifluoromethane	< 5.0
1,2-Dibromoethane	< 1.0	Ethylbenzene	132
1,2-Dichlorobenzene	< 1.0	Hexachlorobutadiene	< 1.0
1,2-Dichloroethane	< 1.0	Hexane	1.0
1,2-Dichloropropane	< 1.0	Isopropylbenzene	4.4
1,3,5-Trimethylbenzene	4.1	m,p-Xylenes	27.8
1,3-Dichlorobenzene	< 1.0	Methylene Chloride	< 1.0
1,3-Dichloropropene	< 1.0	Naphthalene	103
1,4-Dichlorobenzene	< 1.0	n-Butylbenzene	< 1.0
2,2-Dichloropropane	< 1.0	n-Propylbenzene	1.8
2-Butanone	7.91	o-Xylene	9.3
2-Chloroethylvinyl Ether	< 1.0	p-Isopropyltoluene	< 1.0
2-Chlorotoluene	< 1.0	sec-Butylbenzene	< 1.0
2-Hexanone	< 1.0	Styrene	609 E
4-Chlorotoluene	< 1.0	tert-Butylbenzene	< 1.0
4-Methyl-2-pentanone	< 2.0	Tetrachloroethene	< 1.0
Acetone	50.4	Toluene	432 E
Acrylonitrile	42.6	trans-1,2-Dichloroethene	< 1.0
Benzene	666 E	trans-1,3-Dichloropropene	< 1.0
Bromobenzene	< 1.0	Trichloroethene	< 1.0
Bromochloromethane	< 1.0	Trichlorofluoromethane	< 1.0
Bromodichloromethane	< 1.0	Vinyl Acetate	< 1.0
Bromoform	< 1.0	Vinyl Chloride	< 1.0
Surrogate Recoveries	% Recovery		
Dibromofluoromethane	95.1		
1,4-Difluorobenzene	101.9		
Toluene-d8	100.1		
4-Bromofluorobenzene	99.3		

E = Estimated concentration; exceeds calibration curve range (up to 150 ug/L)

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\e060109\
Data File : e060109-04.D
Acq On : 1 Jun 2009 11:46 am
Operator : JRS
Sample : Hunt Road
Misc : R Hunt
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 01 12:17:21 2009
Quant Method : C:\MSDCHEM\1\METHODS\VOA M8260 040109.M
Quant Title : Volatile Organic Compounds
QLast Update : Thu Apr 02 09:19:13 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene (ISTD)	9.485	168	13254451	30.00	ug/L	0.00
19) Chlorobenzene-d5 (ISTD)	17.360	117	17831374	30.00	ug/L	0.00
38) 1,4-Dichlorobenzene-d4...	22.787	152	10213396	30.00	ug/L	0.00
System Monitoring Compounds						
14) Dibromofluoromethane (...)	8.807	111	1975587	9.67	ug/L	0.00
Spiked Amount	10.000	Range	81 - 115	Recovery	=	96.70%
20) 1,4-Difluorobenzene (SUR)	11.005	114	18716968	28.34	ug/L	0.00
Spiked Amount	30.000	Range	89 - 108	Recovery	=	94.47%
28) Toluene-d8 (SUR)	14.461	98	6894004	9.34	ug/L	0.00
Spiked Amount	10.000	Range	78 - 110	Recovery	=	93.40%
40) 4-Bromofluorobenzene (...)	19.959	95	3306926	9.51	ug/L	0.00
Spiked Amount	10.000	Range	85 - 124	Recovery	=	95.10%
Target Compounds						
7) Acrylonitrile	5.538	53	81454	0.91	ug/L	95
8) 1,1-Dichloroethene	5.861	61	49733	Below Cal #		31

(#) = qualifier out of range (m) = manual integration (+) = signals summed

VOA M8260 040109.M Mon Jun 01 12:17:22 2009

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Volatile Organics Summary

Sample Name Hunt Farm 10/7/09
Misc Info
Date Acquired 2/19/2010 8:37
Data File Name E021910-12.D

Results reported in ug/L (ppb)

Compound	Amount	Compound	Amount
1,1,1,2-Tetrachloroethane	< 1.0	Bromomethane	< 1.0
1,1,1-Trichloroethane	< 1.0	Carbon disulfide	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	Carbon Tetrachloride	< 1.0
1,1,2-Trichloroethane	< 1.0	Chlorobenzene	< 1.0
1,1-Dichloroethane	< 1.0	Chloroethane	< 1.0
1,1-Dichloroethene	< 1.0	Chloroform	< 1.0
1,1-Dichloropropene	< 1.0	Chloromethane	< 1.0
1,2,3-Trichlorobenzene	< 1.0	cis-1,2-Dichloroethene	< 1.0
1,2,3-Trichloropropane	< 1.0	cis-1,3-Dichloropropene	< 1.0
1,2,4-Trichlorobenzene	< 1.0	Dibromochloromethane	< 1.0
1,2,4-Trimethylbenzene	< 1.0	Dibromomethane	< 1.0
1,2-Dibromo-3-chloropropane	< 2.0	Dichlorodifluoromethane	< 5.0
1,2-Dibromoethane	< 1.0	Ethylbenzene	< 1.0
1,2-Dichlorobenzene	< 1.0	Hexachlorobutadiene	< 1.0
1,2-Dichloroethane	< 1.0	Hexane	< 1.0
1,2-Dichloropropane	< 1.0	Isopropylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0	m,p-Xylenes	< 2.0
1,3-Dichlorobenzene	< 1.0	Methylene Chloride	< 1.0
1,3-Dichloropropene	< 1.0	Naphthalene	< 1.0
1,4-Dichlorobenzene	< 1.0	n-Butylbenzene	< 1.0
2,2-Dichloropropane	< 1.0	n-Propylbenzene	< 1.0
2-Butanone	< 5.0	o-Xylene	< 1.0
2-Chloroethylvinyl Ether	< 1.0	p-Isopropyltoluene	< 1.0
2-Chlorotoluene	< 1.0	sec-Butylbenzene	< 1.0
2-Hexanone	< 1.0	Styrene	< 1.0
4-Chlorotoluene	< 1.0	tert-Butylbenzene	< 1.0
4-Methyl-2-pentanone	< 2.0	Tetrachloroethene	< 1.0
Acetone	< 5.0	Toluene	< 1.0
Acrylonitrile	2.21	trans-1,2-Dichloroethene	< 1.0
Benzene	< 1.0	trans-1,3-Dichloropropene	< 1.0
Bromobenzene	< 1.0	Trichloroethene	< 1.0
Bromochloromethane	< 1.0	Trichlorofluoromethane	< 1.0
Bromodichloromethane	< 1.0	Vinyl Acetate	< 1.0
Bromoform	< 1.0	Vinyl Chloride	< 1.0

Surrogate Recoveries	% Recovery
Dibromofluoromethane	93.9
1,4-Difluorobenzene	99.3
Toluene-d8	98.0
4-Bromofluorobenzene	95.2

Volatile Organics Summary

Sample Name	Hunt Road
Misc Info	Decanted to remove solids
Analysis Date & Time	12/2/2009 18:59
Operator	
Data File Name	E120209-16.D

Results reported in ug/L (ppb)

Compound	Amount
1,1,1-Trichloroethane	< 0.5
1,1,2,2-Tetrachloroethane	< 0.5
1,1,2-Trichloroethane	< 0.5
1,1-Dichloroethane	< 0.5
1,1-Dichloroethene	< 0.5
1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5
1,2-Dichloropropane	< 0.5
1,3-Dichlorobenzene	< 0.5
1,4-Dichlorobenzene	< 0.5
2-Chloroethylvinyl Ether	< 0.5
Acrylonitrile	4.48
Benzene	< 0.5
Bromodichloromethane	< 0.5
Bromoform	< 0.5
Bromomethane	< 0.5
Carbon Tetrachloride	< 0.5
Chlorobenzene	< 0.5
Chloroethane	< 0.5
Chloroform	< 0.5
Chloromethane	< 0.5
cis-1,3-Dichloropropene	< 0.5
Dibromochloromethane	< 0.5
Ethylbenzene	< 0.5
Hexane	0.560
m,p-Xylenes	< 0.5
Methylene Chloride	< 0.5
o-Xylene	0.705
Styrene	< 0.5
Tetrachloroethene	< 0.5
Toluene	1.67
trans-1,2-Dichloroethene	< 0.5
trans-1,3-Dichloropropene	< 0.5
Trichloroethene	< 0.5
Trichlorofluoromethane	< 0.5
Vinyl Chloride	< 0.5
Surrogate Recoveries	% Recovery
Dibromofluoromethane	101.2
1,4-Difluorobenzene	99.1
Toluene-d8	95.1
4-Bromofluorobenzene	93.8

Volatile Organics Summary

Sample Name Tedro 1/31/10
Misc Info
Date Acquired 2/19/2010 10:31
Data File Name E021910-15.D

Results reported in ug/L (ppb)

Compound	Amount	Compound	Amount
1,1,1,2-Tetrachloroethane	< 2.0	Bromomethane	< 2.0
1,1,1-Trichloroethane	< 2.0	Carbon disulfide	< 2.0
1,1,2,2-Tetrachloroethane	< 2.0	Carbon Tetrachloride	< 2.0
1,1,2-Trichloroethane	< 2.0	Chlorobenzene	< 2.0
1,1-Dichloroethane	< 2.0	Chloroethane	< 2.0
1,1-Dichloroethene	< 2.0	Chloroform	< 2.0
1,1-Dichloropropene	< 2.0	Chloromethane	< 2.0
1,2,3-Trichlorobenzene	< 2.0	cis-1,2-Dichloroethene	< 2.0
1,2,3-Trichloropropane	< 2.0	cis-1,3-Dichloropropene	< 2.0
1,2,4-Trichlorobenzene	< 2.0	Dibromochloromethane	< 2.0
1,2,4-Trimethylbenzene	< 2.0	Dibromomethane	< 2.0
1,2-Dibromo-3-chloropropane	< 4.0	Dichlorodifluoromethane	< 5.0
1,2-Dibromoethane	< 2.0	Ethylbenzene	< 2.0
1,2-Dichlorobenzene	< 2.0	Hexachlorobutadiene	< 2.0
1,2-Dichloroethane	< 2.0	Hexane	< 2.0
1,2-Dichloropropane	< 2.0	Isopropylbenzene	< 2.0
1,3,5-Trimethylbenzene	< 2.0	m,p-Xylenes	< 4.0
1,3-Dichlorobenzene	< 2.0	Methylene Chloride	< 2.0
1,3-Dichloropropene	< 2.0	Naphthalene	< 2.0
1,4-Dichlorobenzene	< 2.0	n-Butylbenzene	< 2.0
2,2-Dichloropropane	< 2.0	n-Propylbenzene	< 2.0
2-Butanone	< 10.0	o-Xylene	< 2.0
2-Chloroethylvinyl Ether	< 2.0	p-Isopropyltoluene	< 2.0
2-Chlorotoluene	< 2.0	sec-Butylbenzene	< 2.0
2-Hexanone	< 2.0	Styrene	< 2.0
4-Chlorotoluene	< 2.0	tert-Butylbenzene	< 2.0
4-Methyl-2-pentanone	< 4.0	Tetrachloroethene	< 2.0
Acetone	< 10.0	Toluene	< 2.0
Acrylonitrile	< 4.0	trans-1,2-Dichloroethene	< 2.0
Benzene	< 2.0	trans-1,3-Dichloropropene	< 2.0
Bromobenzene	< 2.0	Trichloroethene	< 2.0
Bromochloromethane	< 2.0	Trichlorofluoromethane	< 2.0
Bromodichloromethane	< 2.0	Vinyl Acetate	< 2.0
Bromoform	< 2.0	Vinyl Chloride	< 2.0

Surrogate Recoveries	% Recovery
Dibromofluoromethane	91.2
1,4-Difluorobenzene	95.7
Toluene-d8	96.8
4-Bromofluorobenzene	95.8

Volatile Organics Summary

Sample Name Teel Well Head Gts
Misc Info See Note Below
Date Acquired 2/19/2010 9:53
Data File Name E021910-14.D

Results reported in ug/L (ppb)

Compound	Amount	Compound	Amount
1,1,1,2-Tetrachloroethane	< 2.0	Bromomethane	< 2.0
1,1,1-Trichloroethane	< 2.0	Carbon disulfide	< 2.0
1,1,2,2-Tetrachloroethane	< 2.0	Carbon Tetrachloride	< 2.0
1,1,2-Trichloroethane	< 2.0	Chlorobenzene	< 2.0
1,1-Dichloroethane	< 2.0	Chloroethane	< 2.0
1,1-Dichloroethene	< 2.0	Chloroform	< 2.0
1,1-Dichloropropene	< 2.0	Chloromethane	< 2.0
1,2,3-Trichlorobenzene	< 2.0	cis-1,2-Dichloroethene	6.91
1,2,3-Trichloropropane	< 2.0	cis-1,3-Dichloropropene	< 2.0
1,2,4-Trichlorobenzene	< 2.0	Dibromochloromethane	< 2.0
1,2,4-Trimethylbenzene	< 2.0	Dibromomethane	< 2.0
1,2-Dibromo-3-chloropropane	< 4.0	Dichlorodifluoromethane	< 5.0
1,2-Dibromoethane	< 2.0	Ethylbenzene	< 2.0
1,2-Dichlorobenzene	< 2.0	Hexachlorobutadiene	< 2.0
1,2-Dichloroethane	< 2.0	Hexane	< 2.0
1,2-Dichloropropane	< 2.0	Isopropylbenzene	< 2.0
1,3,5-Trimethylbenzene	< 2.0	m,p-Xylenes	< 4.0
1,3-Dichlorobenzene	< 2.0	Methylene Chloride	< 2.0
1,3-Dichloropropene	< 2.0	Naphthalene	< 2.0
1,4-Dichlorobenzene	< 2.0	n-Butylbenzene	< 2.0
2,2-Dichloropropane	< 2.0	n-Propylbenzene	< 2.0
2-Butanone	< 10.0	o-Xylene	< 2.0
2-Chloroethylvinyl Ether	< 2.0	p-Isopropyltoluene	< 2.0
2-Chlorotoluene	< 2.0	sec-Butylbenzene	< 2.0
2-Hexanone	< 2.0	Styrene	< 2.0
4-Chlorotoluene	< 2.0	tert-Butylbenzene	< 2.0
4-Methyl-2-pentanone	< 4.0	Tetrachloroethene	< 2.0
Acetone	27.3	Toluene	17.7
Acrylonitrile	< 4.0	trans-1,2-Dichloroethene	< 2.0
Benzene	72.8	trans-1,3-Dichloropropene	< 2.0
Bromobenzene	< 2.0	Trichloroethene	< 2.0
Bromochloromethane	< 2.0	Trichlorofluoromethane	< 2.0
Bromodichloromethane	< 2.0	Vinyl Acetate	< 2.0
Bromoform	< 2.0	Vinyl Chloride	3.5

Surrogate Recoveries	% Recovery
Dibromofluoromethane	92.9
1,4-Difluorobenzene	95.5
Toluene-d8	98.3
4-Bromofluorobenzene	96.3

Note: Propane, Isobutane, Butane, 2-Methylbutane peaks observed; tentatively identified.