

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD, SPECIAL, AND MISCELLANEOUS SITES
 WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 AMBIENT GROUND-WATER QUALITY

Site Descriptions for Ambient Ground-Water-Quality Network
 Multiple Sites

REMARKS.--During 2005, 30 wells were sampled as part of an ongoing study of the ambient ground-water quality in West Virginia. Sample analyses included field determinations, major ions, nutrients, bacteria, metals, volatile organic compounds, and radon. At selected sites (indicated by an [*], or [**]), pesticides or semi-volatile organic compounds, respectively, were measured. Lists of compounds analyzed for, but not detected in any samples, are on pages # through ##. Pesticides were not detected at any of the 6 sites sampled. Semi-volatile organic compounds were detected at 2 of 6 sites sampled. Geologic unit determinations were made based on surface lithology and are referenced to the Geologic Map of West Virginia by Cardwell and others (1968).

<u>Station Number</u>	<u>Site Name</u>	<u>Latitude</u>	<u>Longitude</u>	<u>County</u>	<u>Geologic Unit</u>
373536081494101	Wyo-0271	37°35'36"	81°49'41"	Wyoming	New River Formation
375339082143501	Mig-0143	37°53'39"	82°14'35"	Mingo	Kanawha Formation
375336082134001	Mig-0144	37°53'36"	82°13'40"	Mingo	Kanawha Formation
385342078552801	Hrd-0303	38°53'42"	78°55'28"	Hardy	Hampshire Formation
385625078485701	Hrd-0304	38°56'25"	78°48'57"	Hardy	Upper-Middle Devonian Series
385701078435001	Hrd-0305	38°57'01"	78°43'50"	Hardy	Middle Silurian System
392732078281301*	Hmp-0384	39°27'32"	78°28'13"	Hampshire	Hampshire Formation
392008078272601	Hmp-0385	39°20'08"	78°20'26"	Hampshire	Middle Silurian System
393707078173501	Mrg-0180	39°37'07"	78°17'35"	Morgan	Helderberg Group
373304081472301	Wyo-0272	37°33'04"	81°47'23"	Wyoming	New River Formation
374257081245601	Wyo-0273	37°42'57"	81°24'25"	Wyoming	New River Formation
380743082223301	Way-0116	38°07'43"	82°22'33"	Wayne	Pottsville Group
380931082192001	Way-0147	38°09'31"	82°19'20"	Wayne	Kanawha Formation
394534080514901*,**	Mal-0409	39°45'34"	80°51'49"	Marshall	Quaternary Alluvium
394137080303001**	Wet-0133	39°41'37"	80°30'30"	Wetzel	Dunkard Formation
393956080254901	Wet-0134	39°39'56"	80°25'49"	Wetzel	Dunkard Formation
395643080453201*,**	Mal-0410	39°56'43"	80°45'32"	Marshall	Quaternary Alluvium
401640080364601*,**	Brk-0047	40°16'40"	80°36'46"	Brooke	Quaternary Alluvium
401544080370001**	Brk-0078	40°15'44"	80°37'00"	Brooke	Quaternary Alluvium
373543081301501	Wyo-0274	37°35'43"	81°31'15"	Wyoming	New River Formation
373316081472101	Wyo-0275	37°33'16"	81°47'21"	Wyoming	New River Formation
373001081220601	Wyo-0276	37°30'01"	81°22'06"	Wyoming	New River Formation
373128081352401**	Wyo-0277	37°31'28"	81°35'24"	Wyoming	New River Formation
375956082242501	Way-0148	37°59'56"	82°24'25"	Wayne	Kanawha Formation
385717080225901*	Lew-0221	38°57'17"	80°22'59"	Lewis	Conemaugh Group
391643080304301*	Har-0173	39°16'43"	80°30'43"	Harrison	Dunkard Formation
391713080300901	Har-0174	39°17'13"	80°30'09"	Harrison	Dunkard Formation
390628080182401	Har-0175	39°06'28"	80°18'24"	Harrison	Conemaugh Group
390733080182401	Har-0176	39°07'33"	80°18'24"	Harrison	Conemaugh Group
391131080113001	Bar-0149	39°11'31"	80°11'30"	Barbour	Conemaugh Group

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AMBIENT GROUND-WATER QUALITY--Continued

MULTIPLE STATION ANALYSES--CONTINUED

Local identifier	Date	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unfltrd uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Noncarb hard-ness, wat unfltrd lab, mg/L as CaCO3 (00903)	Calcium water unfltrd recover-able, mg/L (00916)	Magnes-ium, water, unfltrd recover-able, mg/L (00927)	Potas-sium, water, unfltrd recover-able, mg/L (00937)	Sodium, water, unfltrd recover-able, mg/L (00929)
Wyo-0271	06-22-05	1.6	16	7.1	523	14.4	--	26.9	5.76	1.4	67.6
Mig-0143	06-23-05	1.5	15	8.5	830	15.3	--	5.11	1.36	2.1	170
Mig-0144	06-23-05	1.3	14	7.2	707	16.2	45	69.1	16.2	4.2	49.0
Hrd-0303	06-27-05	1.3	13	7.3	165	12.3	--	14.4	6.22	.9	8.0
Hrd-0304	06-28-05	3.6	37	7.0	636	14.3	231	111	17.3	.7	11.2
Hrd-0305	06-28-05	7.9	80	6.0	66	12.3	--	2.15	5.40	.8	E.5
	06-28-05	--	--	6.0	66	--	--	2.12	5.33	.7	E.5
Hmp-0384	06-29-05	1.5	15	8.1	227	13.3	--	20.7	8.17	1.1	16.3
	06-29-05	--	--	--	--	--	--	--	--	--	--
Hmp-0385	06-29-05	6.0	59	7.1	417	13.0	146	78.3	11.0	.9	1.2
Mrg-0180	06-30-05	2.5	25	6.9	762	14.3	287	109	31.6	.6	13.7
Wyo-0272	07-06-05	1.3	14	6.8	819	15.7	218	78.8	24.9	2.1	47.4
Wyo-0273	07-18-05	1.0	10	6.8	310	14.4	--	21.8	6.02	1.5	35.9
Way-0116	07-20-05	1.0	10	7.6	323	14.6	--	28.5	5.67	3.1	28.4
Way-0147	07-20-05	1.1	11	7.0	638	14.9	--	47.4	11.3	3.7	68.7
Mal-0409	07-25-05	E.9	--	7.7	789	15.7	203	107	14.4	3.1	39.5
Wet-0133	07-26-05	3.5	35	9.7	596	13.0	--	1.93	.30	.4	139
Wet-0134	07-26-05	E.9	--	8.9	419	13.7	--	30.5	3.84	1.0	63.1
Mal-0410	07-27-05	4.7	48	6.8	724	14.5	175	103	13.3	2.0	32.8
Brk-0047	07-28-05	9.1	90	8.0	550	14.1	--	148	14.3	2.6	29.2
Brk-0078	07-28-05	1.0	10	6.6	1,260	13.3	533	195	39.9	2.6	40.1
	07-28-05	--	--	--	--	--	--	--	--	--	--
Wyo-0274	08-02-05	E.9	--	7.6	277	14.8	--	14.5	3.36	.9	40.2
Wyo-0275	08-02-05	E.8	--	7.7	684	16.4	113	66.0	18.6	1.7	46.7
Wyo-0276	08-03-05	E.7	--	8.0	1,270	15.4	--	17.2	2.90	2.6	291
Wyo-0277	08-03-05	E.7	--	6.9	369	16.6	--	26.6	4.67	1.2	43.0
Way-0148	08-04-05	E.7	--	8.2	2,610	15.3	--	42.2	8.79	5.6	428
Lew-0221	08-15-05	E.7	--	8.2	454	13.5	--	60.5	9.57	1.7	20.2
Har-0173	08-16-05	E.7	--	8.8	673	16.0	--	2.93	.51	.9	161
	08-16-05	--	--	8.8	673	--	--	2.81	.52	.8	155
Har-0174	08-16-05	E.8	--	7.3	373	13.3	--	45.7	8.64	2.1	13.2
Har-0175	08-17-05	E.6	--	8.4	549	15.8	--	29.3	4.72	1.0	91.6
Har-0176	08-17-05	E.7	--	9.7	627	13.9	--	1.25	.21	.3	141
Bar-0149	08-18-05	E.8	--	7.4	684	16.2	--	46.7	4.52	.9	107

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 AMBIENT GROUND-WATER QUALITY--Continued

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MULTIPLE STATION ANALYSES--CONTINUED

Local identifier	Date	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon-ate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat unf mg/L (00500)	Residue on evap. at 180degC wat flt mg/L (70300)
Wyo-0271	06-22-05	135	135	165	<1	.64	84.9	.2	<.2	282	286
Mig-0143	06-23-05	240	222	272	<1	.37	118	.9	.6	479	467
Mig-0144	06-23-05	196	190	232	<1	.47	100	.1	E.2	459	388
Hrd-0303	06-27-05	67	67	82	<1	.08	1.36	E.1	15.7	104	108
Hrd-0304	06-28-05	116	257	313	<1	.17	2.87	.1	70.4	339	353
Hrd-0305	06-28-05	30	29	35	<1	.04	.73	.1	4.0	40	38
	06-28-05	30	29	35	<1	.06	.71	.2	4.0	37	44
Hmp-0384	06-29-05	124	111	135	<1	.10	.83	E.1	4.7	130	142
	06-29-05	--	--	--	--	--	--	--	--	--	--
Hmp-0385	06-29-05	95	210	256	<1	.08	<.20	.1	10.3	240	221
Mrg-0180	06-30-05	114	287	350	<1	.14	44.1	.1	40.1	297	401
Wyo-0272	07-06-05	82	130	158	<1	.26	40.7	.1	238	559	552
Wyo-0273	07-18-05	E130	128	156	<1	.18	7.12	.2	23.9	174	192
Way-0116	07-20-05	--	131	160	<1	.20	21.1	.4	4.0	180	183
Way-0147	07-20-05	186	200	244	<1	.68	8.97	.2	102	389	392
Mal-0409	07-25-05	123	214	261	<1	.28	40.9	.2	162	522	514
Wet-0133	07-26-05	274	234	--	--	.24	19.9	.8	12.5	359	364
Wet-0134	07-26-05	208	214	--	--	.23	8.46	.4	8.8	253	239
Mal-0410	07-27-05	138	191	233	<1	.12	42.2	.1	86.6	454	449
Brk-0047	07-28-05	--	107	130	<1	.26	54.5	.3	73.8	566	316
Brk-0078	07-28-05	118	234	285	<1	.18	74.5	.3	313	906	835
	07-28-05	--	--	--	--	--	--	--	--	--	--
Wyo-0274	08-02-05	114	114	139	<1	.16	17.7	.1	E.2	169	162
Wyo-0275	08-02-05	129	151	184	<1	.48	44.1	.1	125	431	430
Wyo-0276	08-03-05	656	680	829	<1	.28	6.24	.3	20.6	774	795
Wyo-0277	08-03-05	101	106	129	<1	.22	27.6	E.1	32.1	211	205
Way-0148	08-04-05	232	234	285	<1	4.42	689	.8	<.9	1,370	1,380
Lew-0221	08-15-05	--	203	248	<1	.21	23.1	.2	<.2	254	254
Har-0173	08-16-05	326	317	386	<1	.27	29.3	.6	.3	416	413
	08-16-05	326	314	--	--	.27	28.8	.6	.3	415	415
Har-0174	08-16-05	152	163	199	<1	.35	15.6	.2	1.5	201	214
Har-0175	08-17-05	216	249	304	<1	.19	1.84	.3	38.7	335	335
Har-0176	08-17-05	328	324	395	<1	.26	5.39	1.0	4.4	378	378
Bar-0149	08-18-05	214	295	356	<1	.21	10.0	.8	60.1	412	417

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 AMBIENT GROUND-WATER QUALITY--Continued

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ortho-phosphate, water, fltrd, mg/L (00660)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	E coli, NA-MUG MF, water, col/100 mL (50278)
Wyo-0271	06-22-05	.32	.25	<.06	E.006	.25	.043	.014	.116	2.5	<1
Mig-0143	06-23-05	.63	.49	<.06	<.008	.50	.377	.123	.147	1.8	<1
Mig-0144	06-23-05	1.04	.81	<.06	<.008	.83	.138	.045	.178	2.7	<1
Hrd-0303	06-27-05	--	E.03	<.06	E.004	E.05	.064	.021	.053	E.3	<1
Hrd-0304	06-28-05	.29	.23	.10	<.008	.32	--	<.006	.052	4.3	<1
Hrd-0305	06-28-05	--	<.04	<.06	<.008	<.06	.159	.052	.085	.4	<1
	06-28-05	--	--	--	--	--	--	--	--	--	--
Hmp-0384	06-29-05	--	<.04	1.05	<.008	E.03	--	E.003	.036	.8	<1
	06-29-05	--	--	--	--	--	--	--	--	--	--
Hmp-0385	06-29-05	--	<.04	<.06	<.008	1.04	.095	.031	.027	5.8	50
Mrg-0180	06-30-05	--	<.04	.51	<.008	.51	--	<.006	<.004	.8	<1
Wyo-0272	07-06-05	.54	.42	<.06	E.004	.43	.049	.016	.170	1.6	<1
Wyo-0273	07-18-05	.46	.36	<.06	<.008	.43	--	<.006	.095	.8	9
Way-0116	07-20-05	1.10	.86	<.06	<.008	.92	.224	.073	.114	4.3	20
Way-0147	07-20-05	.64	.49	<.06	E.004	.54	--	E.004	.014	10.2	<1
Mal-0409	07-25-05	.54	.42	.43	E.004	.92	--	<.006	E.003	4.2	<1
Wet-0133	07-26-05	.10	.08	<.06	<.008	.15	.193	.063	.073	4.5	<1
Wet-0134	07-26-05	.26	.20	<.06	<.008	.24	.046	.015	.023	6.3	<1
Mal-0410	07-27-05	--	<.04	3.31	<.008	3.42	.040	.013	.016	.7	<1
Brk-0047	07-28-05	.29	.23	.47	E.004	.69	.040	.013	.085	.9	<1
Brk-0078	07-28-05	--	<.04	2.70	<.008	2.78	--	<.006	.008	.8	<1
	07-28-05	--	--	--	--	--	--	--	--	--	--
Wyo-0274	08-02-05	.18	.14	<.06	E.005	.16	.135	.044	.094	1.3	<1
Wyo-0275	08-02-05	.64	.50	<.06	E.006	.47	.028	.009	.156	.9	<1
Wyo-0276	08-03-05	.10	.08	<.06	<.008	.19	--	E.004	.012	14.2	<1
Wyo-0277	08-03-05	.26	.20	<.06	E.006	.26	.046	.015	.102	1.7	<1
Way-0148	08-04-05	1.47	1.14	<.06	<.008	1.19	.209	.068	.095	5.6	<1
Lew-0221	08-15-05	.25	.19	<.06	<.008	.22	.034	.011	.036	4.4	<1
Har-0173	08-16-05	.18	.14	<.06	<.008	.19	.261	.085	.096	5.8	<1
	08-16-05	.17	.13	<.06	<.008	.18	.258	.084	.097	8.8	--
Har-0174	08-16-05	1.56	1.22	<.06	.010	1.40	--	E.005	.20	E4.7	<1
Har-0175	08-17-05	.29	.23	<.06	<.008	.31	.205	.067	.096	E.3	<1
Har-0176	08-17-05	.18	.14	<.06	<.008	.20	.132	.043	.050	6.8	<1
Bar-0149	08-18-05	--	<.04	.15	E.007	.12	--	E.005	.012	1.1	<1

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MULTIPLE STATION ANALYSES--CONTINUED

Local identifier	Date	Fecal coli-form, M-FC 0.7u MF col/100 mL (31625)	Total coli-form, M-Endo, col/100 mL (31501)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Antimony, water, unfltrd ug/L (01097)	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd recover-able, ug/L (01007)	Beryllium, water, unfltrd recover-able, ug/L (01012)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recover-able, ug/L (01034)	Iron, water, unfltrd recover-able, ug/L (01045)
Wyo-0271	06-22-05	<1	<1	<2	<.2	<2	515	E.06	<.04	<.8	2,800
Mig-0143	06-23-05	<1	E1	107	<.2	<2	353	<.06	<.04	E.7	2,020
Mig-0144	06-23-05	<1	400	682	<.2	<2	2,630	.17	.57	3.0	2,570
Hrd-0303	06-27-05	<1	<1	<2	<.2	9	201	<.06	<.04	<.8	1,020
Hrd-0304	06-28-05	<1	E3	170	.5	3	100	E.06	E.02	<.8	3,120
Hrd-0305	06-28-05	<1	<1	8	<.2	<2	2	<.06	<.04	<.8	2,320
	06-28-05	--	--	7	<.2	<2	1	<.06	<.04	<.8	2,230
Hmp-0384	06-29-05	<1	200	<2	<.2	15	200	<.06	<.04	<.8	<6
	06-29-05	--	--	--	--	--	--	--	--	--	--
Hmp-0385	06-29-05	E69	E1,600	1,800	<.2	<2	34	.10	<.04	<.8	780
Mrg-0180	06-30-05	<1	E52	E2	<.2	<2	67	<.06	<.04	<.8	40
Wyo-0272	07-06-05	<1	E8	5	<.2	E1	125	.09	<.04	<.8	24,100
Wyo-0273	07-18-05	E8	180	E2	<.2	<2	211	<.06	<.04	<.8	2,120
Way-0116	07-20-05	E2	120	5	<.2	<2	300	<.06	<.04	E.5	930
Way-0147	07-20-05	<1	E1	<2	<.2	<2	85	E.05	<.04	E.4	10,200
Mal-0409	07-25-05	<1	E3	E1	<.2	<2	83	<.06	<.04	<.8	10
Wet-0133	07-26-05	<1	E2	135	<.2	<2	83	<.06	<.04	<.8	120
Wet-0134	07-26-05	<1	E2	34	<.2	<4	344	<.06	.20	E.5	230
Mal-0410	07-27-05	<1	<1	<2	<.2	<4	67	<.06	<.04	E.5	M
Brk-0047	07-28-05	<1	<1	699	<.2	<2	111	<.06	.05	.9	730
Brk-0078	07-28-05	<1	<1	3	<.2	E1	34	<.06	<.04	<.8	1,260
	07-28-05	--	--	--	--	--	--	--	--	--	--
Wyo-0274	08-02-05	E14	103	3	<.2	<2	465	E.04	<.04	<.8	2,600
Wyo-0275	08-02-05	<1	<1	<2	<.2	<2	195	E.03	<.04	E.4	10,600
Wyo-0276	08-03-05	<1	<1	8	E.2	3	310	E.03	<.04	<.8	1,660
Wyo-0277	08-03-05	<1	<1	2	<.2	<2	732	.08	<.04	<.8	5,440
Way-0148	08-04-05	<1	<1	E2	<.2	<2	2,160	<.06	.11	<.8	480
Lew-0221	08-15-05	<1	80	<2	<.2	E1	1,110	<.06	<.04	<.8	600
Har-0173	08-16-05	<1	<1	E1	<.2	<2	412	<.06	<.04	<.8	30
	08-16-05	--	--	E1	<.2	<2	414	<.06	<.04	E.4	30
Har-0174	08-16-05	<1	<1	<2	<.2	4	927	.09	<.04	<.8	4,900
Har-0175	08-17-05	<1	26	<2	<.2	2	210	<.06	<.04	E.4	860
Har-0176	08-17-05	<1	1	16	<.2	<2	21	<.06	<.04	E.5	10
Bar-0149	08-18-05	<1	360	6	<.2	<2	66	<.06	<.04	E.5	10

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD, SPECIAL, AND MISCELLANEOUS SITES
WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
AMBIENT GROUND-WATER QUALITY--Continued

MULTIPLE STATION ANALYSES--CONTINUED

Local identifier	Date	Lead, water, unfltrd recover-able, ug/L (01051)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selen-ium, water, unfltrd ug/L (01147)	Thall-ium, water, unfltrd ug/L (01059)	Zinc, water, unfltrd recover-able, ug/L (01092)	Phenol, water, unfltrd ug/L (34694)	1,1-Di-chloro-ethane, water unfltrd ug/L (34496)	Benzene water unfltrd ug/L (34030)
Wyo-0271	06-22-05	<.06	218	<.01	.27	.7	<.2	6	--	<.1	<.1
Mig-0143	06-23-05	.18	46	<.01	1.38	.9	<.2	E2	--	<.1	<.1
Mig-0144	06-23-05	5.06	122	<.01	2.78	1.1	<.2	3,250	--	<.1	<.1
Hrd-0303	06-27-05	<.06	290	<.01	<.16	.4	<.2	11	--	<.1	<.1
Hrd-0304	06-28-05	1.06	73	<.01	1.59	.4	<.2	10	--	<.1	<.1
Hrd-0305	06-28-05	.10	747	<.01	.72	E.3	<.2	7	--	<.1	<.1
	06-28-05	E.06	755	--	.74	E.2	<.2	7	--	--	--
Hmp-0384	06-29-05	E.05	M	<.01	.20	1.0	<.2	<2	--	<.1	<.1
	06-29-05	--	--	--	--	--	--	--	--	<.1	<.1
Hmp-0385	06-29-05	1.75	39	.02	2.07	E.3	<.2	6	--	<.1	<.1
Mrg-0180	06-30-05	.70	2	<.01	.86	.7	<.2	8	--	<.1	<.1
Wyo-0272	07-06-05	.47	2,270	<.01	2.48	E.3	<.2	4	--	<.1	<.1
Wyo-0273	07-18-05	.16	322	<.01	.90	E.2	<.2	5	--	<.1	<.1
Way-0116	07-20-05	.40	138	<.01	.36	E.3	<.2	16	--	<.1	<.1
Way-0147	07-20-05	.12	990	<.01	.89	.5	<.2	321	--	<.1	<.1
Mal-0409	07-25-05	.23	262	<.01	4.76	.9	<.2	11	E.3	.6	<.1
Wet-0133	07-26-05	.13	17	<.01	.27	.6	<.2	<2	<1.6	<.1	<.1
Wet-0134	07-26-05	3.69	70	<.01	1.39	.5	<.2	502	--	<.1	<.1
Mal-0410	07-27-05	1.54	M	<.01	3.21	1.2	<.2	3	E.1	<.1	<.1
Brk-0047	07-28-05	.12	1,490	<.01	5.56	.4	<.2	3	--	<.1	<.1
Brk-0078	07-28-05	.31	234	<.01	9.13	E.3	<.2	2	<1.6	<.1	<.1
	07-28-05	--	--	--	--	--	--	--	--	<.1	<.1
Wyo-0274	08-02-05	.20	301	<.01	.66	<.4	<.2	6	--	<.1	<.1
Wyo-0275	08-02-05	.17	842	<.01	1.39	<.4	<.2	9	--	<.1	<.1
Wyo-0276	08-03-05	1.85	89	<.01	1.39	.5	<.2	20	--	<.1	<.1
Wyo-0277	08-03-05	E.04	475	<.01	3.21	E.2	<.2	28	<1.6	<.1	.1
Way-0148	08-04-05	.42	30	<.01	1.58	2.3	<.2	29	--	<.1	<.1
Lew-0221	08-15-05	.26	191	<.01	.93	.7	<.2	4	--	<.1	<.1
Har-0173	08-16-05	<.06	6	<.01	.19	.9	<.2	<2	--	<.1	<.1
	08-16-05	<.06	6	<.01	.20	.8	<.2	<2	--	--	--
Har-0174	08-16-05	E.03	800	<.01	.76	.8	<.2	11	--	<.1	<.1
Har-0175	08-17-05	E.04	106	<.01	.62	E.4	<.2	<2	--	<.1	<.1
Har-0176	08-17-05	<.06	3	<.01	<.16	E.4	<.2	<2	--	<.1	<.1
Bar-0149	08-18-05	.41	1	<.01	.84	.6	<.2	3	--	<.1	<.1

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD, SPECIAL, AND MISCELLANEOUS SITES
 WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 AMBIENT GROUND-WATER QUALITY--Continued

MULTIPLE STATION ANALYSES--CONTINUED

Local identifier	Date	Bromo-di-chloro-methane water unfltrd ug/L (32101)	Chloro-benzene water unfltrd ug/L (34301)	cis-1,2-Di-chloro-ethene, water, unfltrd ug/L (77093)	Di-bromo-chloro-methane water unfltrd ug/L (32105)	Di-chloro-di-fluoro-methane wat unfltrd ug/L (34668)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	Tetra-chloro-ethene, water, unfltrd ug/L (34475)	Tetra-chloro-methane water unfltrd ug/L (32102)	Tri-bromo-methane water unfltrd ug/L (32104)	Tri-chloro-ethene, water, unfltrd ug/L (39180)
Wyo-0271	06-22-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Mig-0143	06-23-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Mig-0144	06-23-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Hrd-0303	06-27-05	<.1	<.1	<.1	<.2	<.2	.3	<.1	<.2	<.2	<.1
Hrd-0304	06-28-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Hrd-0305	06-28-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
	06-28-05	--	--	--	--	--	--	--	--	--	--
Hmp-0384	06-29-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
	06-29-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Hmp-0385	06-29-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Mrg-0180	06-30-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Wyo-0272	07-06-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Wyo-0273	07-18-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Way-0116	07-20-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Way-0147	07-20-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Mal-0409	07-25-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Wet-0133	07-26-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Wet-0134	07-26-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Mal-0410	07-27-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	1.2
Brk-0047	07-28-05	.1	<.1	.5	.2	<.2	<.2	1.1	<.2	.4	.1
Brk-0078	07-28-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
	07-28-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Wyo-0274	08-02-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Wyo-0275	08-02-05	<.1	<.1	<.1	<.2	<.2	.4	<.1	<.2	<.2	<.1
Wyo-0276	08-03-05	1.5	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Wyo-0277	08-03-05	1.2	.2	<.1	.4	<.2	<.2	.2	7.0	<.2	.2
Way-0148	08-04-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Lew-0221	08-15-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Har-0173	08-16-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
	08-16-05	--	--	--	--	--	--	--	--	--	--
Har-0174	08-16-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Har-0175	08-17-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Har-0176	08-17-05	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.2	<.1
Bar-0149	08-18-05	<.1	<.1	<.1	<.2	E.6	.6	<.1	<.2	<.2	<.1

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD, SPECIAL, AND MISCELLANEOUS SITES
 WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 AMBIENT GROUND-WATER QUALITY--Continued

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Tri- chloro- methane water unfltrd ug/L (32106)	Rn-222, water, unfltrd pCi/L (82303)
Wyo-0271	06-22-05	<.1	160
Mig-0143	06-23-05	<.1	100
Mig-0144	06-23-05	<.1	70
Hrd-0303	06-27-05	<.1	190
Hrd-0304	06-28-05	<.1	50
Hrd-0305	06-28-05	<.1	800
	06-28-05	--	--
Hmp-0384	06-29-05	<.1	1,440
	06-29-05	<.1	--
Hmp-0385	06-29-05	<.1	660
Mrg-0180	06-30-05	<.1	230
Wyo-0272	07-06-05	<.1	250
Wyo-0273	07-18-05	<.1	40
Way-0116	07-20-05	<.1	160
Way-0147	07-20-05	<.1	160
Mal-0409	07-25-05	.6	480
Wet-0133	07-26-05	<.1	1,180
Wet-0134	07-26-05	<.1	1,500
Mal-0410	07-27-05	<.1	480
Brk-0047	07-28-05	.2	60
Brk-0078	07-28-05	<.1	3,240
	07-28-05	<.1	--
Wyo-0274	08-02-05	<.1	70
Wyo-0275	08-02-05	<.1	90
Wyo-0276	08-03-05	8.4	M
Wyo-0277	08-03-05	6.9	30
Way-0148	08-04-05	<.1	100
Lew-0221	08-15-05	<.1	820
Har-0173	08-16-05	<.1	390
	08-16-05	--	--
Har-0174	08-16-05	<.1	340
Har-0175	08-17-05	<.1	900
Har-0176	08-17-05	<.1	830
Bar-0149	08-18-05	<.1	770

Remark codes used in this table:

< -- Less than.

E -- Estimated.

M-- Presence verified but not quantified.

ORGANIC COMPOUNDS IN GROUND WATER

REMARKS.--Ground water was analyzed for all the compounds listed in the table below. Each of these compounds is identified by name and U.S. Geological Survey National Water Information System parameter code (WATSTORE Code). Method Reporting Limit (MRL) is also provided for each compound, as a concentration (mg/L). A measured or estimated concentration is shown in the preceding table for each compound detected in the samples; compounds not detected in any sample are not shown in the table.

The MRL provides an index to indicate where measurement uncertainty is increased. When an analyte is detected and all criteria for a positive result are met, the concentration is reported. If the analyte is detected at a concentration less than the MRL, an E code is reported with the value. An E code is also reported with the value if the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, even if the measured value is greater than the MRL. If a compound was not detected, it is recorded in U.S. Geological Survey files and in these tables as being in a concentration less than the MRL.

Samples from all wells in the network were analyzed for the compounds listed in the first table, volatile organic compounds. Samples from 6 selected wells, marked with an asterisk (*), were also analyzed for the pesticides listed in the second table. Samples from 6 selected wells, marked with a double asterisk (**), were also analyzed for the semi-volatile organic compounds listed in the third table.

Volatile organic compounds

WATSTORE Code	Compounds	MRL (µg/L)	WATSTORE Code	Compounds	MRL (µg/L)
77652	1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	<.1	81577	Diisopropyl ether	<.2
34506	1,1,1-Trichloroethane	<.1	34371	Ethylbenzene	<.1
34496	1,1-Dichloroethane	<.1	50005	Methyl tert-pentyl ether	<.2
34501	1,1-Dichloroethylene	<.1	78032	MTBE	<.2
34536	1,2-Dichlorobenzene	<.1	85795	m-Xylene plus p-xylene	<.2
32103	1,2-Dichloroethane	<.2	77135	o-Xylene	<.1
34541	1,2-Dichloropropane	<.1	77128	Styrene	<.1
34566	1,3-Dichlorobenzene	<.1	50004	tert-Butyl ethyl ether	<.1
34571	1,4-Dichlorobenzene	<.1	34475	Tetrachloroethene	<.1
34030	Benzene	<.1	34010	Toluene	<.1
32101	Bromodichloromethane	<.1	32102	Tetrachloromethane	<.2
34301	Chlorobenzene	<.1	34546	trans-1,2-Dichloroethene	<.1
77093	cis-1,2-Dichloroethene	<.1	32104	Tribromomethane	<.2
32105	Dibromochloromethane	<.2	39180	Trichloroethene	<.1
34668	Dichlorodifluoromethane	<.2	34488	Trichlorofluoromethane	<.2
34423	Dichloromethane	<.2	39175	Vinyl chloride	<.2
81576	Diethyl ether	<.2			

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD, SPECIAL, AND MISCELLANEOUS SITES
 WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 AMBIENT GROUND-WATER QUALITY--Continued

Pesticides

WATSTORE Code	Compounds	MRL (µg/L)	WATSTORE Code	Compounds	MRL (µg/L)
82660	2,6-Diethylaniline	<.006	04095	Fonofos	<.003
49260	Acetochlor	<.006	39341	Lindane	<.004
46342	Alachlor	<.005	82666	Linuron	<.035
34253	alpha-HCH	<.005	39532	Malathion	<.027
39632	Atrazine	<.007	82667	Methyl parathion	<.015
82686	Azinphos-methyl	<.050	39415	Metalochlor	<.006
82673	Benfluralin	<.010	82630	Metribuzin	<.006
04028	Butylate	<.004	82671	Molinate	<.003
82680	Carbaryl	<.041	82684	Napropamide	<.007
82674	Carbofuran	<.020	34653	p,p1-DDE	<.003
38933	Chlorpyrifos	<.005	39542	Parathion	<.010
04040	CIAT	<.006	82669	Pebulate	<.004
82687	cis-Permethrin	<.006	82683	Pendimethalin	<.022
04041	Cyanazine	<.018	82664	Phorate	<.011
82682	DCPA	<.003	04037	Prometon	<.01
62170	Desulfinyl fipronil	<.012	82676	Propyzamide	<.004
39572	Diazinon	<.005	04024	Propachlor	<.025
39381	Dieldrin	<.009	82679	Propanil	<.011
82677	Disulfoton	<.02	82685	Propargite	<.02
82668	EPTC	<.004	04035	Simazine	<.005
82663	Ethalfuralin	<.009	82670	Tebuthiuron	<.02
82672	Ethoprop	<.005	82665	Terbacil	<.034
62169	Desulfinylfipronil amide	<.029	82675	Terbufos	<.02
62167	Fipronil sulfide	<.013	82681	Thiobencarb	<.010
62168	Fipronil sulfone	<.024	82678	Triallate	<.002
62166	Fipronil	<.016	82661	Trifluralin	<.009

Semi-Volatile Organic Compounds

WATSTORE Code	Compounds	MRL (µg/L)	WATSTORE Code	Compounds	MRL (µg/L)
34556	Dibenz[a,h]anthracene	<2.2	34433	N-Nitrosodiphenylamine	<1.9
34320	Chrysene	<1.2	34396	Hexachloroethane	<1.6
34283	bis(2-chloroisopropyl) ether	<1	34376	Fluoranthene	<1.4
34606	2,4-Dimethylphenol	<2	82626	1,2-Diphenylhydrazine	<2.2
34657	4,6-Dinitro-2-methylphenol	<1.8	34403	Indeno[1,2,3-cd]pyrene	<1.8
34636	4-Bromophenylphenylether	<2.1	34408	Isophorone	<2.2
34641	4-Chlorophenyl phenyl ether	<1.2	34452	4-Chloro-3-methylphenol	<1.6
34381	Fluorene	<1.2	34278	bis(2-Chloroethoxy)methane	<1
34205	Acenaphthene	<1.9	34696	Naphthalene	<1.6
34200	Acenaphthylene	<1.8	34581	2-Chloronaphthalene	<1
34220	Anthracene	<2	34461	Phenanthrene	<1
34526	Benz[a]anthracene	<1.6	34694	Phenol	<1.6
34551	1,2,4-Trichlorobenzene	<1.2	34621	2,4,6-Trichlorophenol	<1.4
39700	Hexachlorobenzene	<1	34601	2,4-Dichlorophenol	<2.5
34566	1,3-Dichlorobenzene	<1.2	34616	2,4-Dinitrophenol	<3.3
34447	Nitrobenzene	<1.4	34586	2-Chlorophenol	<1.2
34536	1,2-Dichlorobenzene	<1.5	34591	2-Nitrophenol	<1.4
34571	1,4-Dichlorobenzene	<1.4	34646	4-Nitrophenol	<2.4
39120	Benzidine	<1000	39032	Pentachlorophenol	<1.8
34631	3,3'-Dichlorobenzidine	<0.9	39100	bis(2-Ethylhexyl) phthalate	<1.8
34247	Benzo[a]pyrene	<1.3	34292	Butylbenzyl phthalate	<1.8
34230	Benzo[b]fluoranthene	<1.9	39110	Di-n-butyl phthalate	<1.7
34521	Benzo[ghi]perylene	<1.6	34336	Diethyl phthalate	<1.6
34242	Benzo[k]fluoranthene	<1.4	34341	Dimethyl phthalate	<1
34273	bis(2-Chloroethyl)ether	<1	34596	Di-n-octyl phthalate	<2.3
39702	Hexachlorobutadiene	<1.2	34469	Pyrene	<1.6
34386	Hexachlorocyclopentadiene	<1.2	34611	2,4-Dinitrotoluene	<1.4
34428	N-Nitrosodi-n-propylamine	<1.6	34626	2,6-Dinitrotoluene	<2.3
34438	N-Nitrosodimethylamine	<1.6			

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
AMBIENT GROUND-WATER QUALITY--Continued

Site Descriptions for Wells Sampled for Dissolved Gases
Multiple Sites

REMARKS.--During 2005, 30 wells were sampled as part of a study to define the occurrence and distribution of methane gas dissolved in ground-water in West Virginia. Field determinations for these wells are tabled herein, and methane and other dissolved gas concentrations are published online in U.S. Geological Survey Data Series 156 (<http://pubs.usgs.gov/ds/2005/156/>).

<u>Station Number</u>	<u>Site Name</u>	<u>Latitude</u>	<u>Longitude</u>	<u>County</u>	<u>Geologic Unit</u>
385619079573801	Ran-0275	38°56'19"	79°57'38"	Randolph	Kanawha Formation
390128080034101	Ups-0181	39°01'28"	80°03'41"	Upshur	Pottsville Group
391927079325901	Pre-0166	39°19'27"	79°32'59"	Preston	Pocono Group
390217079272201	Tuc-0125	39°02'17"	79°27'22"	Tucker	Greenbrier Limestone Group
390235079240301	Tuc-0124	39°02'35"	79°24'03"	Tucker	Greenbrier Limestone Group
385507079313901	Ran-0260	38°55'07"	79°31'38"	Randolph	Upper-Middle Devonian Series
384825080284301	Lew-0217	38°48'24"	80°28'43"	Lewis	Conemaugh Group
391410081411701	Woo-0213	39°14'10"	81°41'17"	Wood	Quaternary Alluvium
401348080391601	Brk-0077	40°13'48"	80°39'16"	Brooke	Quaternary Alluvium
403038080332201	Hnc-0046	40°30'38"	80°33'21"	Hancock	Conemaugh Group
395641080453101	Mal-0407	39°56'41"	80°45'31"	Marshall	Quaternary Alluvium
394534080514901	Mal-0409	39°45'34"	80°51'49"	Marshall	Quaternary Alluvium
380410082304001	Way-0146	38°04'10"	82°30'40"	Wayne	Kanawha Formation
380137082260001	Way-0140	38°01'37"	82°26'00"	Wayne	Kanawha Formation
380736082274401	Way-0143	38°07'36"	82°27'44"	Wayne	Allegheny Formation
381746079554401	Poc-0266	38°17'46"	79°55'44"	Pocahontas	Upper-Middle Devonian Series
380658080065101	Poc-0234	38°06'58"	80°06'50"	Pocahontas	Upper-Middle Devonian Series
373721080211001	Mnr-0156	37°37'21"	80°21'10"	Monroe	MacCrary Shale Formation
374830080174401	Grb-0291	37°48'30"	80°17'44"	Greenbrier	Lower Devonian System
374126081122501	Ral-0196	37°41'26"	81°12'24"	Raleigh	New River Formation
384458082112601	Mas-0930	38°44'58"	82°11'26"	Mason	Quaternary Alluvium
384511081591701	Mas-0960	38°45'11"	81°59'17"	Mason	Quaternary Alluvium
385015081251201	Roa-0093	38°50'15"	81°25'11"	Roane	Dunkard Formation
385518080302201	Lew-0215	38°55'18"	80°30'24"	Lewis	Monongahela Group
390650080183701	Har-0170	39°06'50"	80°18'36"	Harrison	Conemaugh Group
392227080024901	Tay-0127	39°22'27"	80°02'49"	Taylor	Conemaugh Group
391946079492901	Pre-0171	39°19'46"	79°49'29"	Preston	Conemaugh Group
392604079310201	Pre-0164	39°26'04"	79°31'02"	Preston	Mauch Chunk Group
394137080303001	Wet-0133	39°41'37"	80°30'30"	Wetzel	Dunkard Formation
393550079293501	Pre-0163	39°35'50"	79°29'35"	Preston	Pottsville Group

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD, SPECIAL, AND MISCELLANEOUS SITES
 WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
 AMBIENT GROUND-WATER QUALITY--Continued

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MULTIPLE STATION ANALYSES

Local identifier	Station number	Date	Time	Depth of well, feet below LSD (72008)	Altitude of land surface feet (72000)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
Ran-0275	385619079573801	03-07-05	1030	500	1,870	710	3.0	6.9	232	12.1
Ups-0181	390128080034101	03-07-05	1215	200	1,960	708	2.5	6.0	78	12.1
Pre-0166	391927079325901	03-08-05	1220	100	2,630	685	3.0	7.0	128	11.3
Tuc-0125	390217079272201	03-09-05	0930	250	3,240	675	5.8	8.2	267	8.1
Tuc-0124	390235079240301	03-09-05	1045	100	3,270	675	7.2	7.3	273	9.3
Ran-0260	385507079313901	03-10-05	0915	222	2,380	698	2.4	8.0	446	11.1
Lew-0217	384825080284301	03-10-05	1245	380	1,250	730	2.2	9.2	651	14.1
Woo-0213	391410081411701	03-15-05	1230	60	590	755	3.6	7.0	434	14.3
Brk-0077	401348080391601	03-16-05	0915	72	670	753	2.5	7.0	1,210	12.9
Hnc-0046	403038080332201	03-16-05	1115	150	960	744	2.5	6.8	350	10.7
Mal-0407	395641080453101	03-16-05	1350	80	650	750	5.1	7.1	627	13.6
Mal-0409	394534080514901	03-17-05	1015	74	650	749	2.3	7.1	729	15.1
Way-0146	380410082304001	03-22-05	1015	102	640	752	2.2	7.9	438	14.4
Way-0140	380137082260001	03-22-05	1220	96	690	750	3.2	7.3	920	14.8
Way-0143	380736082274401	03-22-05	1350	56	670	750	2.1	7.7	801	14.7
Poc-0266	381746079554401	03-23-05	1300	325	2,680	691	2.2	6.7	286	10.6
Poc-0234	380658080065101	03-23-05	1515	175	2,630	690	2.1	7.5	201	10.7
Mnr-0156	373721080211001	03-24-05	1130	100	2,560	698	2.0	7.9	241	11.4
Grb-0291	374830080174401	03-24-05	1340	350	1,890	717	3.4	6.9	598	16.7
Ral-0196	374126081122501	03-25-05	1100	406	2,640	697	2.8	6.4	348	11.6
Mas-0930	384458082112601	04-01-05	1045	73	540	753	2.9	6.0	312	14.4
Mas-0960	384511081591701	04-01-05	1300	90	600	750	2.0	6.8	790	13.9
Roa-0093	385015081251201	04-11-05	1020	101	720	748	2.3	9.2	745	14.1
Lew-0215	385518080302201	04-11-05	1315	100	1,130	735	2.1	7.5	350	13.4
Har-0170	390650080183701	04-11-05	1445	75	1,124	735	1.9	7.5	410	13.4
Tay-0127	392227080024901	04-12-05	1030	240	1,000	739	2.0	6.9	229	12.7
Pre-0171	391946079492901	04-12-05	1220	58	1,370	728	2.0	6.9	1,280	15.9
Pre-0164	392604079310201	04-12-05	1405	207	2,480	698	4.6	7.2	248	9.9
Wet-0133	394137080303001	04-13-05	1130	126	940	738	4.1	9.4	607	12.4
Pre-0163	393550079293501	04-13-05	1500	179	2,660	693	7.8	4.6	43	10.7

