

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
VIRUSES IN GROUND-WATER PROJECT**

The following table contains water-quality data from non-community water supply wells sampled as a part of a study of viruses in ground water. The network of wells was established as a part of a cooperative study of viruses in ground water in Pennsylvania conducted by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Environmental Protection. In addition to sampling for viruses, microbiological indicators were evaluated as surrogates for viral contamination. The results were based on samples collected from 60 non-community water supplies in four geologic settings across the state. Ground water samples were analyzed for human enteric viruses, total coliform, *E. coli*, *Enterococcus*, *Clostridium perfringens*, somatic and male-specific coliphage, and *Helicobacter pylori*. Other data for this project can be found in the annual Water Data Reports PA-01-1 and PA-01-3. For additional information, contact Bruce Lindsey at the U.S. Geological Survey, 215 Limekiln Road, New Cumberland, PA 17070; 717-730-6964 (email: blindsey@usgs.gov).

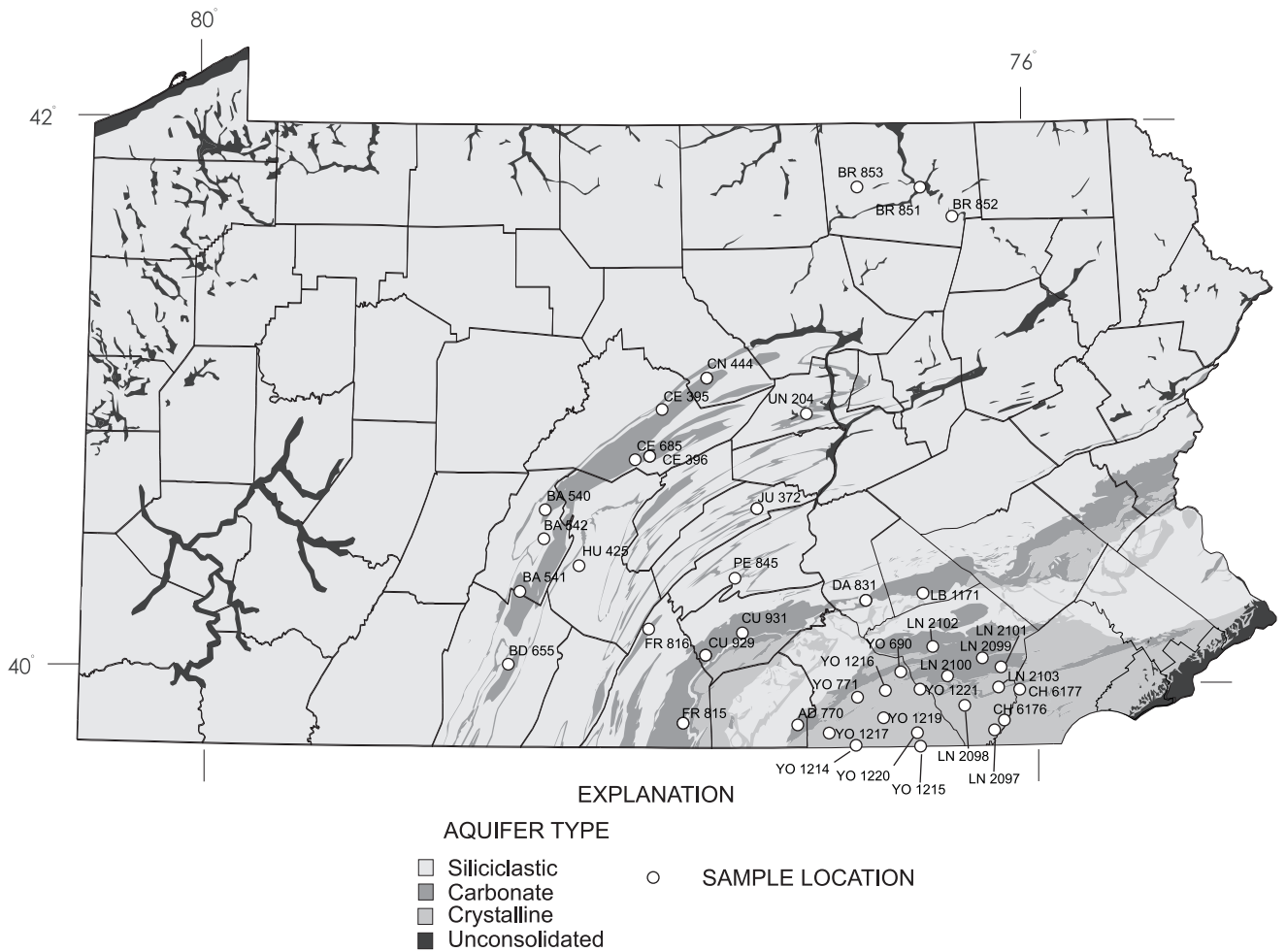


Figure 11.--Locations of wells sampled as part of the viruses in ground-water project.

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
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WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

STATION NUMBER	LOCAL ID	DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
395419076452001	YO 771	09-06-00	1100	36015	1028	7.1	6.3	182	12.5
395419076452001	YO 771	09-06-00	1101	9813	1028	--	--	--	--
395419076452001	YO 771	09-06-00	1102	42016	1028	--	--	--	--
395523076371101	YO 1216	09-11-00	0900	36015	1028	2.5	6.1	--	14.6
395523076371101	YO 1216	09-11-00	0901	9813	1028	--	--	--	--
395523076371101	YO 1216	09-11-00	0902	42016	1028	--	--	--	--
395206076133601	LN 2098	09-11-00	1300	36015	1028	7.1	6.0	--	14.0
395206076133601	LN 2098	09-11-00	1301	9813	1028	--	--	--	--
395206076133601	LN 2098	09-11-00	1302	42016	1028	--	--	--	--
394332076455401	YO 1214	09-13-00	1300	36015	1028	9.3	5.0	118	14.5
394332076455401	YO 1214	09-13-00	1301	9813	1028	--	--	--	--
394332076455401	YO 1214	09-13-00	1302	42016	1028	--	--	--	--
394341076270501	YO 1215	09-13-00	1030	36015	1028	5.3	5.8	358	17.5
394341076270501	YO 1215	09-13-00	1031	9813	1028	--	--	--	--
394341076270501	YO 1215	09-13-00	1032	42016	1028	--	--	--	--
394749077024401	AD 770	09-14-00	0900	36015	1028	3.9	7.3	409	15.2
394749077024401	AD 770	09-14-00	0901	9813	1028	--	--	--	--
394749077024401	AD 770	09-14-00	0902	42016	1028	--	--	--	--
394756077362501	FR 815	09-18-00	1330	36015	1028	7.7	7.1	862	16.8
394756077362501	FR 815	09-18-00	1331	9813	1028	--	--	--	--
394756077362501	FR 815	09-18-00	1332	42016	1028	--	--	--	--
400328077284201	CU 929	09-18-00	1030	36015	1028	6.1	7.4	279	17.9
400328077284201	CU 929	09-18-00	1031	9813	1028	--	--	--	--
400328077284201	CU 929	09-18-00	1032	42016	1028	--	--	--	--
394711076042801	LN 2097	09-19-00	1030	36015	1028	8.5	5.7	50	14.6
394711076042801	LN 2097	09-19-00	1031	9813	1028	--	--	--	--
394711076042801	LN 2097	09-19-00	1032	42016	1028	--	--	--	--
405722077421601	CE 395	09-25-00	1100	36015	1028	2.6	7.1	422	12.7
405722077421601	CE 395	09-25-00	1101	9813	1028	--	--	--	--
405722077421601	CE 395	09-25-00	1102	42016	1028	--	--	--	--
403543078160201	BA 540	09-26-00	1130	36015	1028	3.3	6.9	875	11.7
403543078160201	BA 540	09-26-00	1131	9813	1028	--	--	--	--
403543078160201	BA 540	09-26-00	1132	42016	1028	--	--	--	--
401749078230201	BA 541	09-26-00	1630	36015	1028	8.3	7.0	825	13.9
401749078230201	BA 541	09-26-00	1631	9813	1028	--	--	--	--
401749078230201	BA 541	09-26-00	1632	42016	1028	--	--	--	--
394942076372701	YO 1219	09-27-00	1130	36015	1028	1.7	5.1	161	15.9
394942076372701	YO 1219	09-27-00	1131	9813	1028	--	--	--	--
394942076372701	YO 1219	09-27-00	1132	42016	1028	--	--	--	--
404700077493001	CE 685	09-20-00	1100	36015	1028	6.6	7.1	1360	12.9
404700077493001	CE 685	09-20-00	1101	9813	1028	--	--	--	--
404700077493001	CE 685	09-20-00	1102	42016	1028	--	--	--	--
394628076533801	YO 1217	09-28-00	1200	36015	1028	7.7	5.7	134	12.4
394628076533801	YO 1217	09-28-00	1201	9813	1028	--	--	--	--
394628076533801	YO 1217	09-28-00	1202	42016	1028	--	--	--	--
395946076325901	YO 690	09-28-00	1700	36015	1028	.2	6.6	126	12.3
395946076325901	YO 690	09-28-00	1701	9813	1028	--	--	--	--
395946076325901	YO 690	09-28-00	1702	42016	1028	--	--	--	--
400136078265101	BD 655	10-02-00	1030	36015	1028	1.8	7.1	764	14.2
400136078265101	BD 655	10-02-00	1031	9813	1028	--	--	--	--
400136078265101	BD 655	10-02-00	1032	42016	1028	--	--	--	--

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VIRUSES IN GROUND-WATER PROJECT**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

STATION NUMBER	LOCAL ID	DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
401512076430201	DA 831	10-04-00	1100	36015	1028	5.2	6.9	775	15.1
401512076430201	DA 831	10-04-00	1101	9813	1028	--	--	--	--
401512076430201	DA 831	10-04-00	1102	42016	1028	--	--	--	--
394609076280101	YO 1220	10-10-00	1000	36015	1028	1.4	5.0	679	6.8
394609076280101	YO 1220	10-10-00	1001	9813	1028	--	--	--	--
394609076280101	YO 1220	10-10-00	1002	42016	1028	--	--	--	--
394803076023501	CH 6176	10-11-00	0900	36015	1028	5.9	6.7	128	11.1
394803076023501	CH 6176	10-11-00	0901	9813	1028	--	--	--	--
394803076023501	CH 6176	10-11-00	0902	42016	1028	--	--	--	--
400852077190001	CU 931	10-12-00	1000	36015	1028	5.1	6.8	1300	13.7
400852077190001	CU 931	10-12-00	1001	9813	1028	--	--	--	--
400852077190001	CU 931	10-12-00	1002	42016	1028	--	--	--	--
400926077455001	FR 816	10-16-00	0900	36015	1028	.4	--	888	12.5
400926077455001	FR 816	10-16-00	0901	9813	1028	--	--	--	--
400926077455001	FR 816	10-16-00	0902	42016	1028	--	--	--	--
402917078165001	BA 542	10-16-00	1300	36015	1028	5.5	--	345	13.6
402917078165001	BA 542	10-16-00	1301	9813	1028	--	--	--	--
402917078165001	BA 542	10-16-00	1302	42016	1028	--	--	--	--
403518077141001	JU 372	10-18-00	0930	36015	1028	.2	7.3	534	11.8
403518077141001	JU 372	10-18-00	0931	9813	1028	--	--	--	--
403518077141001	JU 372	10-18-00	0932	42016	1028	--	--	--	--
405619076591501	UN 204	10-23-00	0900	36015	1028	4.4	6.9	836	13.3
405619076591501	UN 204	10-23-00	0901	9813	1028	--	--	--	--
405619076591501	UN 204	10-23-00	0902	42016	1028	--	--	--	--
395532076270401	YO 1221	10-25-00	0900	36015	1028	7.3	5.1	75	16.2
395532076270401	YO 1221	10-25-00	0901	9813	1028	--	--	--	--
395532076270401	YO 1221	10-25-00	0902	42016	1028	--	--	--	--
401709076255501	LB 1171	11-15-00	1200	36015	1028	7.8	7.3	642	12.0
401709076255501	LB 1171	11-15-00	1201	9813	1028	--	--	--	--
401709076255501	LB 1171	11-15-00	1202	42016	1028	--	--	--	--
410453077284801	CN 444	11-16-00	1030	36015	1028	1.0	7.1	924	11.9
410453077284801	CN 444	11-16-00	1031	9813	1028	--	--	--	--
410453077284801	CN 444	11-16-00	1032	42016	1028	--	--	--	--
395455075582401	CH 6177	11-29-00	1100	36015	1028	7.7	5.4	244	12.9
395455075582401	CH 6177	11-29-00	1101	9813	1028	--	--	--	--
395455075582401	CH 6177	11-29-00	1102	42016	1028	--	--	--	--
404706077453701	CE 396	11-30-00	1030	36015	1028	11.7	7.5	298	11.8
404706077453701	CE 396	11-30-00	1031	9813	1028	--	--	--	--
404706077453701	CE 396	11-30-00	1032	42016	1028	--	--	--	--
402339078053401	HU 425	12-04-00	1000	36015	1028	2.9	7.0	234	11.6
402339078053401	HU 425	12-04-00	1001	9813	1028	--	--	--	--
402339078053401	HU 425	12-04-00	1002	42016	1028	--	--	--	--
400223076082501	LN 2099	12-05-00	1430	36015	1028	7.2	7.4	678	12.0
400223076082501	LN 2099	12-05-00	1431	9813	1028	--	--	--	--
400223076082501	LN 2099	12-05-00	1432	42016	1028	--	--	--	--
395608076042901	LN 2103	12-11-00	1330	36015	1028	8.8	5.2	308	11.9
395608076042901	LN 2103	12-11-00	1331	9813	1028	--	--	--	--
395608076042901	LN 2103	12-11-00	1332	42016	1028	--	--	--	--

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

STATION NUMBER	LOCAL ID	DATE	TIME	AGENCY ANA-LYZING SAMPLE NUMBER (00028)	AGENCY COL-LECTING SAMPLE NUMBER (00027)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
395808076191801	LN 2100	12-14-00	1000	36015	1028	7.6	6.9	785	11.9
395808076191801	LN 2100	12-14-00	1001	9813	1028	--	--	--	--
395808076191801	LN 2100	12-14-00	1002	42016	1028	--	--	--	--
395945076030301	LN 2101	01-02-01	1400	36015	1028	6.6	7.6	458	7.9
395945076030301	LN 2101	01-02-01	1401	9813	1028	--	--	--	--
395945076030301	LN 2101	01-02-01	1402	42016	1028	--	--	--	--
402101077211801	PE 845	01-09-01	1100	36015	1028	3.6	7.7	250	11.3
402101077211801	PE 845	01-09-01	1101	9813	1028	--	--	--	--
402101077211801	PE 845	01-09-01	1102	42016	1028	--	--	--	--
400525076224601	LN 2102	01-16-01	1130	36015	1028	.4	7.4	687	12.3
400525076224601	LN 2102	01-16-01	1131	9813	1028	--	--	--	--
400525076224601	LN 2102	01-16-01	1132	42016	1028	--	--	--	--
414554076245301	BR 851	01-17-01	1500	36015	1028	.1	7.5	463	11.0
414554076245301	BR 851	01-17-01	1501	9813	1028	--	--	--	--
414554076245301	BR 851	01-17-01	1502	42016	1028	--	--	--	--
414617076435801	BR 853	01-18-01	1100	36015	1028	2.5	6.9	382	10.2
414617076435801	BR 853	01-18-01	1101	9813	1028	--	--	--	--
414617076435801	BR 853	01-18-01	1102	42016	1028	--	--	--	--
413933076152901	BR 852	01-24-01	1230	36015	1028	1.3	7.3	712	11.2
413933076152901	BR 852	01-24-01	1231	9813	1028	--	--	--	--
413933076152901	BR 852	01-24-01	1232	42016	1028	--	--	--	--

