Well-Construction, Water-Level, and Ground-Water-Quality Data for Prince William County, Virginia, 1992

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Well-Construction, Water-Level, and Ground-Water-Quality Data for Prince William County, Virginia, 1992

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INTRODUCTION

The U.S. Geological Survey (USGS), in cooperation with the Prince William Health District, conducted an investigation between 1989 and 1992 to characterize the quality of ground water in Prince William County, Va. Encompassing approximately 347 mi^2, Prince William County is located in northern Virginia, about 25 mi southwest of Washington, D.C. (fig. 1).

Purpose and Scope

This report presents well-construction, water-level, and ground-water-quality data collected by the USGS between 1989 and 1992 in Prince William County. Hydrogeologic data were collected as part of an investigation to assess the quality of ground water in the county. Well-construction data for 182 sites were entered into the Ground-Water Site Inventory (GWSI) data base maintained by the USGS. Water levels were measured in 159 wells in the spring and fall of 1991 and the data also were entered into the GWSI. Hydrographs from six of these wells also are presented in this report. Analyses are included for 88 ground-water-quality samples and are stored in the Water-Quality System data base maintained by the USGS. In addition, analyses for environmental or stable isotopes from 57 wells and dissolved gas analyses from 18 wells are presented.

Acknowledgments

The authors wish to express their appreciation to James Shifflett and Frank McDonough of the city of Manassas Park, Donald Echols and Darrell Grady of the city of Manassas, and Earl Smith and Jim Camper of the Upper Occoquan Sewage Authority for providing access to wells. The assistance of Ralph Eckley, Jim Green, David Miller, and Lee Hefner of the Prince William County Service Authority during the different phases of this investigation was extremely beneficial. Dean W. Chartrand of the International Business Machines Corporation provided valuable water-level data for this investigation. The authors would like to thank Marcus Haynes of the Prince William Health District for his input throughout this investigation. Special thanks also are expressed to the citizens of Prince William County who allowed access to their wells.

WELL-CONSTRUCTION DATA

Well-construction data for 182 sites used in this investigation for water-level measurements and ground-water-quality samples are presented in table 1. The well-construction data were compiled from Cady (1938), Brown (1981), Betz-Converse-Murdoch (1982), Posner and Zenone (1983), Nelms and Richardson (1990), and files maintained by the Virginia Department of Environmental Quality, Water Division (DEQ, WD), the Prince William Health District, and the USGS. For location of these wells, the reader can refer to plate 1.

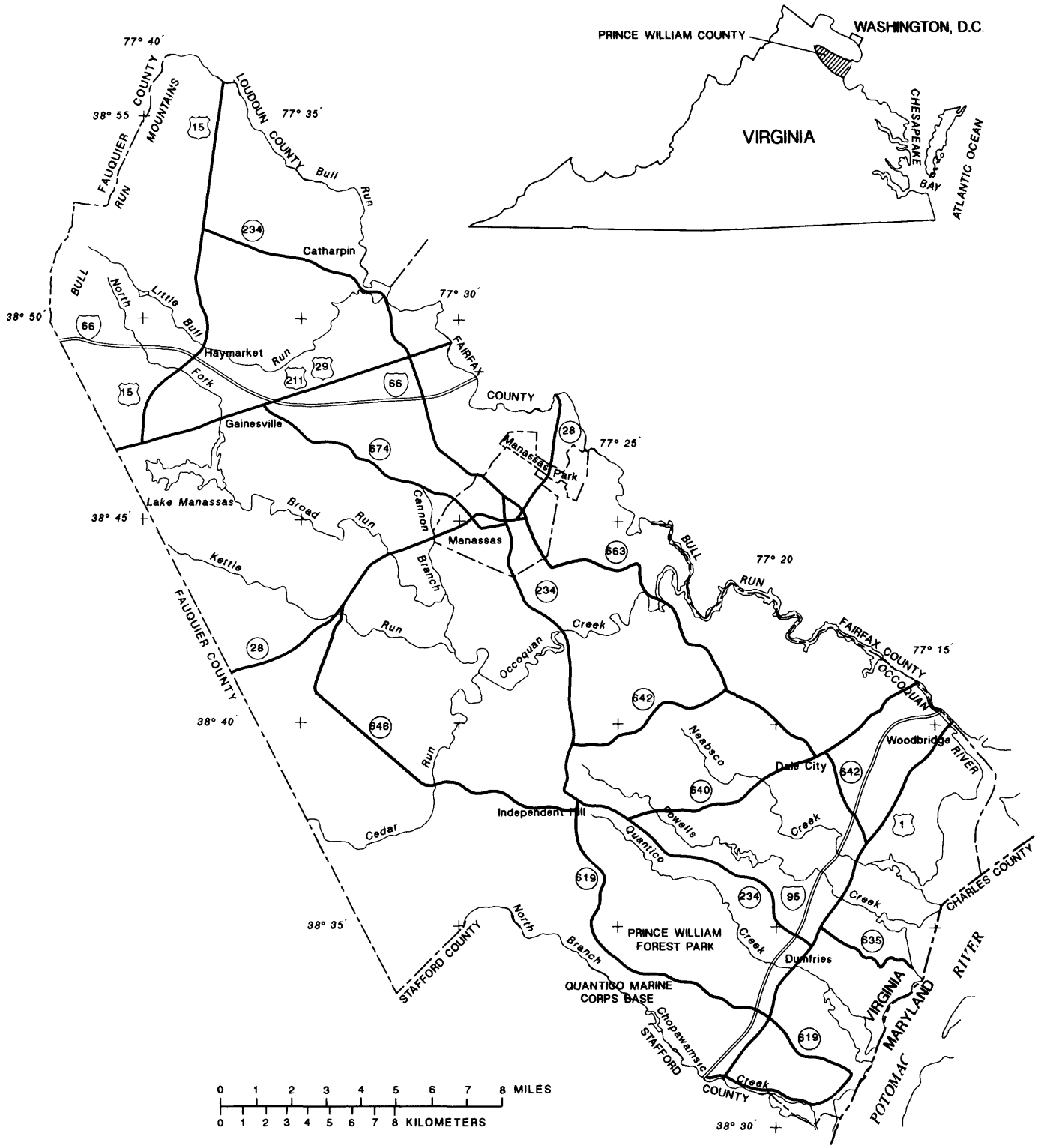

Figure 1. Location of study area.

WATER-LEVEL DATA

Water levels were measured in 159 wells during two synoptic runs in the spring and fall of 1991 to approximate the seasonal water-level fluctuations (table 2). The International Business Machines Corporation provided water-level data for 41 of these wells. Pumps were shut down for as long as feasible and the recovery period was recorded. During the fall synoptic run, the recovery duration of the spring run was duplicated whenever possible. At least three water-level measurements were collected at a site during each synoptic run. At least two measurements had to be identical for the water level in table 2 to be reported as a static level. For wells that had not completely recovered, a series of measurements were collected until the difference between measurements was less than 0.5 ft; therefore, the water level reported in table 2 is an approximate static level. The site status heading in table 2 indicates the type of static level reported.

Six observation wells located in Prince William County are part of the observation-well network for the State of Virginia maintained by the USGS and DEQ, WD. Of these six wells, the USGS maintains observation wells 49U1, 49V1, 51S7, 52S4, and 52S5. Observation well 53T2 SOW 029 is maintained by the DEQ, WD. Hydrographs for each well showing the entire period of record are presented in figure 2.

GROUND-WATER-QUALITY DATA

Ground-water-quality samples were collected at 87 wells in the county during the summer months of 1990 and 1991 to characterize the quality of ground water. Procedures outlined in Wood (1976), Scalf and others (1981), and Claassen (1982) were followed during sample collection. Field properties (pH, specific conductance, dissolved oxygen, and temperature) were monitored in a flow chamber during the purging of each well. Domestic wells were purged either for at least 1 hour or until the field properties had stabilized after the first hour. Public-supply wells generally had been pumped for several hours and were effectively purged prior to the arrival of project personnel; therefore, field properties at these wells were monitored for at least an additional 30 minutes or until stabilized. Filtration or treatment devices were bypassed, so that a representative water sample from the aquifer could be collected.

Samples collected for major cation, trace metal, and nutrient analyses were filtered through a 0.45µ (micron) -membrane filter. Dissolved organic carbon samples were filtered through a 0.45µ-silver filter. Alkalinity was measured in the field by use of the fixed endpoint (pH = 4.5), electrometric titration method. Radon-222 samples were collected from the flow chamber by use of the syringe method described in Cecil and Yang (1987). The dissolved gas samples were collected in glass flasks following the method described in Pearson and others (1978).

Major dissolved constituent and nutrient analyses of ground water, including radon-222 and dissolved organic carbon, are presented in table 3. Analyses of trace metals in ground water are presented in table 4. Well 49V53 has two entries in tables 3, 4, and 5. The first entry is for the sample collected when the well was flowing. The second entry is for the sample collected when the well was pumped. Environmental or stable isotope analyses for 57 wells are presented in table 5. Dissolved gas analyses of ground water from 18 wells are presented in table 6.

Ground-water-quality samples were analyzed at the USGS National Water Quality Laboratory in Denver, Colo. The environmental isotope and dissolved gas samples were analyzed in the laboratories maintained by the USGS National Research Program in Reston, Va. Methods for determination of inorganic and organic constituents in water used by the laboratory are documented in Fishman and Friedman (1989) and Wershaw and others (1987). Laboratory quality-assurance procedures are outlined in Friedman and Erdmann (1982) and Jones (1987).

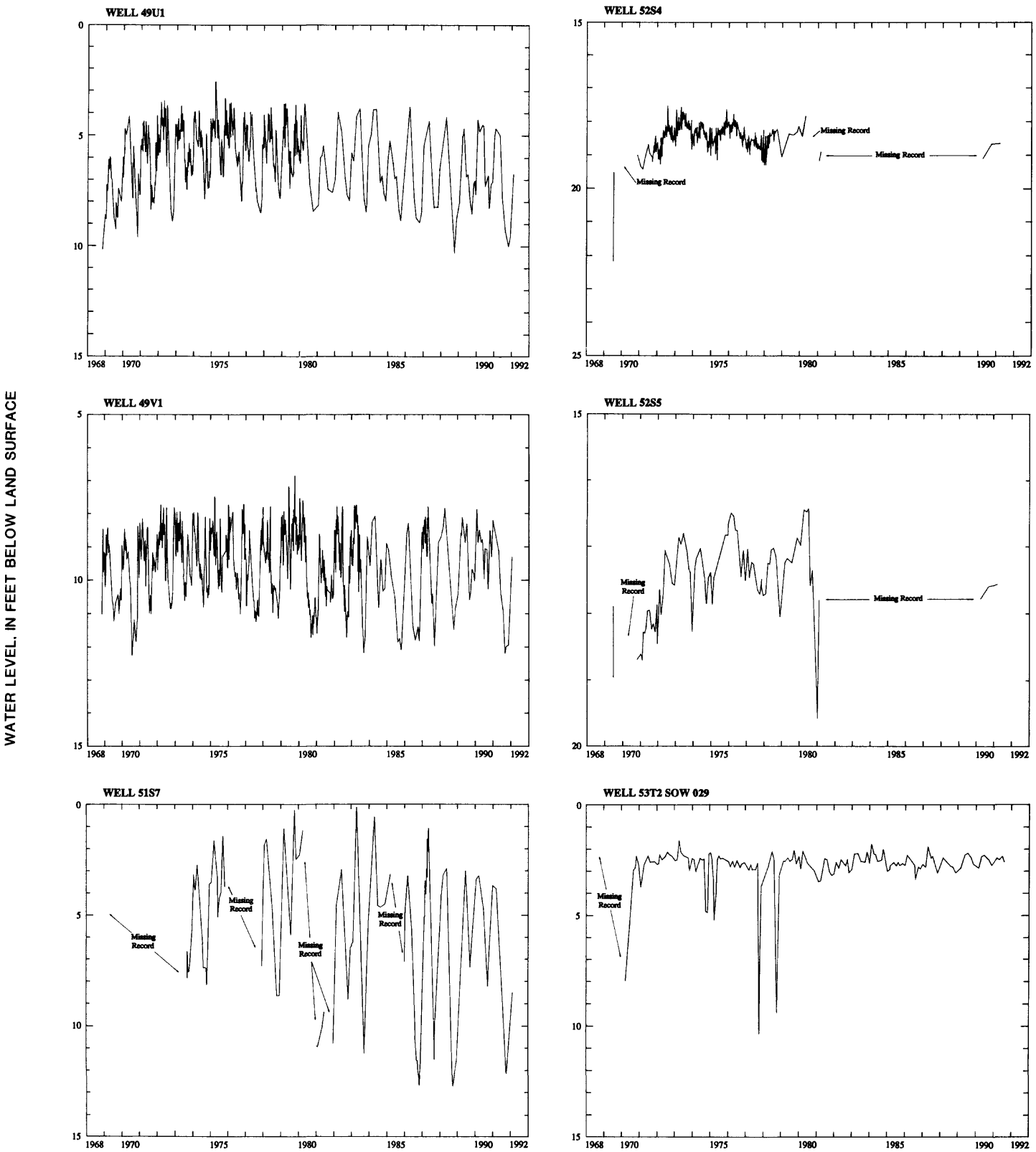

Figure 2. Hydrographs for observation wells 49U1, 49V1, 51S7, 52S4, 52S5, and 53T2 SOW 029.

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TABLES 1–6

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Table 1. Well-construction data for selected wells in Prince William County

EXPLANATION OF CODES

Assignor

BRME	Bull Run Mountain Estates
GMSD	Greater Manassas Sanitary District
NPS	National Park Service
Potomac R Proj	Potomac River Project
PWC TAX	Prince William County Tax Map number
PWCSA	Prince William County Service Authority
SWCB	Virginia Water Control Board observation-well network
UOSA	Upper Occoquan Sewage Authority
USGS	U.S. Geological Survey
VASWCB	Virginia Water Control Board
VDMR	Virginia Division of Mineral Resources
VWCB Bull 303	Virginia Water Control Board Planning Bulletin 303
WSP 2035	U.S. Geological Survey Water-Supply Paper 2035
YSD	Yorkshire Sanitary District

Topographic setting

C	Stream channel
F	Flat
G	Flood plain
H	Hilltop
S	Hillside
T	Terrace
V	Valley flat
W	Upland draw

Other data available

QW	Water quality
WL	Water level

Use of water

C	Commercial
F	Fire
H	Domestic
I	Irrigation
N	Industrial
P	Public supply
T	Institutional
U	Unused

Type of finish

G	Gravel screen
S	Screen
W	Walled
X	Open hole
Z	Other

Geologic unit

112CLMB	Columbia Group
217PTMC	Potomac Group
227CPCK	Catharpin Creek Formation of the Culpeper Group
227DIBS	Diabase
227GCRK	Goose Creek Member of the Catharpin Creek Formation
227HKGV	Hickory Grove Basalt of the Culpeper Group
227MBKQ	Millbrook Quarry Member of the Waterfall Formation
227MDLD	Midland Formation of the Culpeper Group
227MZCC	Mount Zion Church Basalt of the Culpeper Group
227SNDR	Sander Basalt of the Culpeper Group
227TMMP	Thermally metamorphosed rocks
227TRKR	Turkey Run Formation of the Culpeper Group
227WRFL	Waterfall Formation of the Culpeper Group
231BLBF	Balls Bluff Siltstone of the Culpeper Group
231PLVL	Poolesville Member of the Manassas Sandstone
377CPMC	Chopawamsic Formation
350MTTL	Metatonalite[1]
360LGRV	Lunga Reservoir Formation
360LKJK	Lake Jackson Pluton[1]
360OCCQ	Occoquan Pluton[1]
360PCBC	Purcell Branch Formation
360PLLT	Phyllite[1]
361QNTC	Quantico Formation
377CHLH	Chilhowee Group

[1]Unit follows usage of U.S. Geological Survey Open-File Report 90-548 (Pavlides, 1990).

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
49T 74	384356077380101	38 43 56	77 38 01	--	--	Ritter	07-02-87	350	H	240	H
49U 1	384931077420301	38 49 30	77 42 08	Well 5 175-00024	Potomac R Proj VASWCB	Sydnor Hydro	08-07-68	383	T	345	U
49U 51	385147077404701	38 51 47	77 40 47	153-5-13 175-01609	PWC TAX VASWCB	Valley	01-27-81	570	W	525	H
49U 60	384844077382501	38 48 44	77 38 25	--	--	--	--	355	V	--	C
49U 62	384739077391301	38 47 42	77 39 00	Well No 16 WG-16 175-00079	GMSD PWCSA VASWCB	Stribling	12-23-74	380	S	305	P
49U 68	385159077402501	38 51 59	77 40 25	175-01556	VASWCB	Leazer	07-11-79	570	S	170	H
49U 69	385210077400701	38 52 10	77 40 07	175-01557	VASWCB	Ritter	12-03-79	540	S	140	H
49U 72	384844077375801	38 48 44	77 37 31	WH-01	PWCSA	Vans Const	06-28-86	362	S	330	P
49U 73	384848077380601	38 48 51	77 37 37	WH-02	PWCSA	Vans Const	06-28-86	350	V	430	P
49U 74	385114077380501	38 51 14	77 38 05	--	--	Ritter	12-22-86	400	H	200	H
49U 75	384652077400701	38 46 52	77 40 07	--	--	Dominion	02-22-83	341	S	208	T
49U 76	384702077380101	38 47 02	77 38 01	--	--	Valley	09-24-87	350	V	845	I
49U 77	384658077382101	38 46 58	77 38 21	Well D	Owner	Valley	04-18-88	307	V	385	I

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole		Casing		Type of finish	Water zones/ screens (feet)	Well yield						Geologic unit	Depth to bedrock (feet)	Other data available
			Interval (feet)	Diameter (in.)	Interval (feet)	Diameter (in.)			Date	Discharge (gal/min)	Static level (feet)	Pumping level (feet)	Specific capacity [(gal/min)/ft]	Pumping period (hours)			
49T 74	30	07-02-87	0.0 - 50	10	-0.32- 50	6.63	X	--	07-02-87	10	30	--	--	0.2	231BLBF	25	QW,WL
			50 - 240	6.13													
49U 1	10.16	10-29-68	.0 - 20	8.75	-2 - 20	7	X	20 - 345	10-29-68	20	10	344	0.06	1	227WRFL	10	WL
			20 - 345	6.5													
49U 51	98	01-27-81	.0 - 62	10	.0 - 62	6	X	285 - 285.5	01-27-81	3	98	--	--	---	227MBKQ	19	QW
			62 - 525	6				500 - 500.5									
49U 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	227CPCK	--	WL
49U 62	30	12-23-74	.0 - 105	10	.0 -105	6	X	--	12-23-74	25	--	--	--	--	227MZCC	--	QW,WL
			105 - 305	6													
49U 68	28	07-11-79	.0 - 65	10	.0 - 65	6	X	--	07-11-79	12	28	--	--	2	227WRFL	--	QW
			65 - 170	6													
49U 69	20	12-03-79	.0 - 50	10	.0 - 50	6.63	X	--	12-03-79	12	20	--	--	1	227WRFL	--	QW
			50 - 140	6.13													
49U 72	44	06-28-86	.0 - 55	11	.0 - 55	6	X	190 - 200	06-30-86	55	44	323	.2	48	227CPCK	--	QW,WL
			55 - 330	6				250 - 255									
49U 73	40	06-28-86	.0 - 55	11	.0 - 55	6	X	248 - 255	06-30-86	52	60	392	.16	48	227CPCK	--	QW,WL
			55 - 430	6				255.5 - 265									
49U 74	30	12-22-86	.0 - 50	10	-1.05- 50	6.63	X	--	12-22-86	8	30	--	--	.2	227MZCC	30	QW,WL
			50 - 200	6.13													
49U 75	50	02-22-83	.0 - 59	10	-1.6 - 59	6.63	X	65 - 67	02-22-83	3.5	50	--	--	1	227TMMP	14	QW,WL
			59 - 208	6.13				165 - 167									
49U 76	18	09-24-87	.0 - 20	10	-1 - 19	6	X	190 - 190.5	09-24-87	10	18	--	--	2.5	227CPCK	4	WL
			20 - 845	6				220 - 220.5									
49U 77	19	04-18-88	.0 - 21	12	-1 - 20	8	X	200 - 200.5	04-18-88	75	19	--	--	2.5	227CPCK	10	WL
			21 - 385	8				370 - 370.5									

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
49U 78	384706077384401	38 47 06	77 38 44	Well B	Owner	Valley	04-21-88	310	V	400	I
49U 79	384705077385101	38 47 05	77 38 51	Well C	Owner	Valley	04-22-88	310	V	400	I
49V 1	385607077381101	38 56 07	77 38 11	Potmac R 6 175-00025	WSP 2035 VASWCB	Sydnor Hydro	08-08-68	420	S	165	U
49V 43	385256077375101	38 52 56	77 37 51	158-1-16A	PWC TAX	--	02-05-74	350	W	100	H
49V 46	385247077403401	38 52 47	77 40 34	160-10-4	PWC TAX	--	03-26-86	570	S	325	H
49V 49	385509077394201	38 55 08	77 39 43	Well No 1 WB-01 175-00095	BRME PWCSA VASWCB	--	- -59	850	W	305	P
49V 50	385506077394201	38 55 07	77 39 43	Well No 2 WB-02 175-00096	BRME PWCSA VASWCB	--	--	840	W	327	P
49V 52	385509077395101	38 55 09	77 39 53	Well No 4 WB-04 175-00098 1680	BRME PWCSA VASWCB VDMR	Valley	07-15-66	1,030	H	482	P
49V 53	385429077394201	38 54 29	77 39 42	Well No 5 WB-05 175-00099 1912	BRME PWCSA VASWCB VDMR	Lawson	06-08-67	575	S	805	P
49V 54	385430077393901	38 54 31	77 39 39	Well No 6 175-00100	BRME VASWCB	Lawson	09-29-70	580	S	830	P
49V 55	385505077392201	38 55 05	77 39 22	Well No 7 WB-07 175-00101	BRME PWCSA VASWCB	Lawson	10-26-70	610	W	400	P
49V 56	385408077402801	38 54 09	77 40 28	Well No 8 WB-08 175-00209	BRME PWCSA VASWCB	Lawson	10- -76	1,220	H	600	P
49V 57	385534077394201	38 55 32	77 39 45	Well No 9 WB-09 175-01050	BRME PWCSA VASWCB	Dominion	08-18-78	1,150	H	900	P

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole		Casing		Type of finish	Water zones/screens (feet)	Well yield						Geologic unit	Depth to bedrock (feet)	Other data available
			Interval (feet)	Diameter (in.)	Interval (feet)	Diameter (in.)			Date	Discharge (gal/min)	Static level (feet)	Pumping level (feet)	Specific capacity [(gal/min)/ft]	Pumping period (hours)			
49U 78	20	04-21-88	0.0 - 25	12	-1 - 24	8	X	165 - 165.5	04-21-88	40	20	--	--	2.5	227CPCK	8	WL
			25 - 400	8				275 - 275.5									
49U 79	20	04-22-88	.0 - 21	10	-1 - 20	6	X	300 - 300.5	04-22-88	20	20	--	--	2.5	227CPCK	10	WL
			21 - 400	6													
49V 1	11.02	11-07-68	.0 - 10	8.06	-2 - 10	7	X	10 - 165	--	--	--	--	--	--	227TRKR	--	WL
			10 - 165	6.04													
49V 43	--	--	.0 - 100	--	0.0 - 21	--	X	--	02-05-74	15	--	--	--	--	227MDLD	42	QW,WL
49V 46	42	03-26-86	.0 - 325	--	.0 - 94	--	X	140 - 141	03-26-86	12	42	--	--	--	227MBKQ	35	QW
								290 - 291									
49V 49	65	10-25-76	.0 - 305	--	--	--	X	--	10-25-76	8.4	65	108	.2	48	377CHLH	--	QW,WL
49V 50	--	--	.0 - 327	8	.0 - 54	8	X	--	06-08-78	26	--	--	--	72	377CHLH	--	QW,WL
49V 52	--	--	.0 - 50	12	.0 - 50	6	X	130 - 140	07-15-66	4	--	--	--	48	377CHLH	15	QW,WL
			50 - 482	6				230 - 240									
49V 53	--	--	.0 - 85	9	.0 - 120	6	X	190 - 200	06-08-67	15	0.0	380	.04	175	377CHLH	80	QW,WL
			85 - 120	8				670 - 680									
			120 - 805	6				720 - 730									
								760 - 770									
49V 54	--	--	.0 - 830	--	--	--	X	--	--	--	--	--	--	--	377CHLH	90	WL
49V 55	34	10-26-70	.0 - 65	10	.0 - 140	6	X	90 - 140	10-26-70	75	34	--	--	6	377CHLH	140	QW,WL
			65 - 400	6	--			250 - 260	10-25-76	71.3	45	85	1.78	48			
49V 56	118	10- -76	.0 - 50	10	.0 - 110	6	X	120 - 120.5	10- -76	15	118	--	--	2	377CHLH	--	QW,WL
			50 - 600	6				150 - 150.5									
								180 - 180.5									
49V 57	246	08-18-78	.0 - 163	10	-3 - 163	6	X	494 - 495	08-18-78	8	246	--	--	--	377CHLH	40	QW,WL
			163 - 535	6				853 - 855									
			535 - 900	5.8													

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
49V 58	385337077402101	38 53 37	77 40 21	Well No 10 WB-10 175-01341	BRME PWCSA VASWCB	Dominion	06-30-80	700	W	310	P
49V 87	385253077380801	38 52 53	77 38 08	--	--	Dominion	07-19-77	395	S	207	F
49V 88	385428077401601	38 54 28	77 40 16	WB-12	PWCSA	Valley	03-07-91	1,100	S	220	P
49V 89	385428077401602	38 54 28	77 40 16	WB-13	PWCSA	Valley	05-09-91	1,095	S	240	P
50T 45C	384251077312401	38 42 51	77 31 24	TW-1	Betz-Converse	Leazer	07-15-81	205	S	550	U
50T 46F	384045077301301	38 40 45	77 30 13	TW-2	Betz-Converse	Leazer	08-17-81	195	S	600	U
50T 47F	384217077314801	38 42 17	77 31 48	TW-3	Betz-Converse	Leazer	10-06-81	185	V	600	U
50T 48F	384115077314501	38 41 15	77 31 45	TW-4	Betz-Converse	Leazer	07-22-81	215	H	600	U

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole		Casing		Type of finish	Water zones/ screens (feet)	Well yield						Geologic unit	Depth to bedrock (feet)	Other data available
			Interval (feet)	Diameter (in.)	Interval (feet)	Diameter (in.)			Date	Discharge (gal/min)	Static level (feet)	Pumping level (feet)	Specific capacity [(gal/min)/ft]	Pumping period (hours)			
49V 58	40	06-30-80	0.0 - 53	10	0.0 - 53	6	X	140 - 142	06-30-80	30	40	--	--	1	377CHLH	2	QW,WL
			53 - 310	6				215 - 220									
								270 - 272									
49V 87	--	--	--	--	-1.2 - 54	6.63	X	--	07-19-77	25	--	--	--	--	227HKGV	--	WL
49V 88	62	03-07-91	.0 - 100	10	-1 - 101	6	X	180 - 180.5	03-07-91	8	62	--	--	3.5	377CHLH	85	WL
			100 - 220	6													
49V 89	65	05-09-91	.0 - 100	10	-1 - 101	6	X	230 - 230.5	05-09-91	7	65	--	--	2.5	377CHLH	70	WL
			100 - 240	6													
50T 45C	25.1	09-01-81	.0 - 54	10	-2 - 54	6	X	200 - 202	09-01-81	160	25.1	156.21	1.22	48	231BLBF	4	WL
			54 - 470	6.5				323 - 325									
			470 - 550	6.25				380 - 383									
								397 - 399									
50T 46F	40.81	08-24-81	.0 - 51.5	10	-1.5 - 51.5	6	X	216 - 217	08-24-81	312	40.81	69.67	10.81	48	231PLVL	6	WL
			51.5 - 385	6.5				353 - 354									
			385 - 600	6				379 - 381									
								394 - 396									
								415 - 416									
50T 47F	20.48	10-07-81	.0 - 50.5	10	-1.5 - 50.5	6	X	131 - 132	10-07-81	200	20.48	68.61	4.15	48	231BLBF	3	WL
			50.5 - 503	6.5				206 - 207									
			503 - 600	6				246 - 248									
								296 - 297									
								406 - 408									
50T 48F	42.4	08-03-81	.0 - 54	10	-2 - 54	6	X	80 - 82	08-03-81	200	42.4	77.69	5.67	72	231BLBF	2	WL
			54 - 485	6.5				138 - 140									
			485 - 600	6.25				188 - 190									
								310 - 312									
								405 - 407									
								438 - 439									

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
50T 54	384444077303702	38 44 43	77 30 36	OF-38	IBM	--	--	207.8	S	450	U
50T 55	384443077301901	38 44 43	77 30 11	OF-15	IBM	--	--	211.7	V	200	U
50T 56	384443077301902	38 44 43	77 30 12	OF-39	IBM	--	--	210.9	V	450	U
50T 57	384427077311701	38 44 25	77 31 22	OF-17	IBM	--	--	205.2	V	182	U
50T 58	384441077304301	38 44 40	77 30 46	OF-18	IBM	--	--	195.9	V	200	U
50T 59	384441077304302	38 44 40	77 30 46	OF-41	IBM	--	--	197.3	V	450	U
50T 60	384425077303001	38 44 26	77 30 29	OF-19	IBM	--	--	224.3	S	200	U
50T 61	384425077303002	38 44 25	77 30 29	OF-42	IBM	--	--	224.9	S	450	U

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole Interval (feet)	Borehole Diameter (in.)	Casing Interval (feet)	Casing Diameter (in.)	Type of finish	Water zones/ screens (feet)	Well yield Date	Well yield Discharge (gal/min)	Well yield Static level (feet)	Well yield Pumping level (feet)	Well yield Specific capacity [(gal/min)/ft]	Well yield Pumping period (hours)	Geologic unit	Depth to bedrock (feet)	Other data available
50T 54	74.6	09-24-87	0.0 - 10	14	0.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													
50T 55	49.15	09-24-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
50T 56	45.15	09-24-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													
50T 57	31.15	09-25-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	10	.0 - 150	6											
			150 - 182	6													
50T 58	29.6	09-24-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
50T 59	33	09-24-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													
50T 60	61.12	09-25-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
50T 61	62.59	09-25-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
50T 62	384418077300101	38 44 18	77 30 01	OF-20	IBM	--	--	203.3	V	200	U
50T 66	384020077331901	38 40 20	77 33 19	--	--	Dominion	06-14-88	193	V	210	H
50T 68	383957077304901	38 39 57	77 30 49	--	--	Valley	07-30-81	230	H	205	H
50T 69	384217077360501	38 42 17	77 36 05	--	--	Curtis R L	08-08-83	280	W	125	H
50T 79	384157077345701	38 41 57	77 34 57	--	--	Dominion	09-05-85	270	H	197	H
50T 80	384334077302701	38 43 34	77 30 27	L-31 Area 6	PWCSA	Dominion	12-07-82	170	V	250	H
50T 81	384416077300101	38 44 16	77 30 01	--	--	--	--	205	V	--	H
50T 82	384122077300101	38 41 22	77 30 01	--	--	--	--	270	S	--	H
50T 83	384121077300201	38 41 21	77 30 02	--	--	--	--	260	S	--	H
50U 1F	384904077320601	38 49 04	77 32 06	175-00414	VASWCB	Dominion	03-24-75	260	S	402	H
50U 86	385111077353101	38 51 11	77 35 31	150-4-H1	PWC TAX	--	05-31-78	355	W	200	H
50U 97	385019077330501	38 50 19	77 33 05	142-2-9	PWC TAX	--	02-13-78	330	H	452	H
50U106	385219077370401	38 52 19	77 37 04	158-2-30	PWC TAX	--	04-10-87	460	S	250	H
50U110	384735077372801	38 47 35	77 37 28	127-1-30A 175-01329	PWC TAX VASWCB	Valley	03-10-80	305	V	345	C

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole		Casing		Type of finish	Water zones/ screens (feet)	Well yield						Geologic unit	Depth to bedrock (feet)	Other data available
			Interval (feet)	Diameter (in.)	Interval (feet)	Diameter (in.)			Date	Discharge (gal/min)	Static level (feet)	Pumping level (feet)	Specific capacity [(gal/min)/ft]	Pumping period (hours)			
50T 62	37.61	09-25-87	0.0 - 10	12	0.0 - 10	8	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
50T 66	50	06-14-88	.0 - 51	10	-1 - 51	6.25	X	175 - 180	06-14-88	50	50	--	--	1	231BLBF	--	QW
			51 - 210	6.13													
50T 68	26	07-30-81	.0 - 95	10	.0 - 95	6	X	--	--	--	--	--	--	--	231PLVL	--	QW
			95 - 205	6													
50T 69	31	08-08-83	.0 - 50	10	.0 - 50	6	X	--	08-08-83	20	31	124	0.22	4	227TMMP	--	QW
			50 - 125	6													
50T 79	20	09-05-85	.0 - 51	10	-1.03- 51	6.63	X	186 - 188	09-05-85	10	20	--	--	1	231BLBF	5	QW,WL
			51 - 197	6.13													
50T 80	12	12-07-82	.0 - 50	10	-1.22- 56	6.63	X	80 - 100	12-07-82	100	12	--	--	--	231BLBF	10	QW,WL
			50 - 250	6.13				190 - 200									
								235 - 240									
50T 81	--	--	--	--	--	--	-	--	--	--	--	--	--	--	231BLBF	--	QW,WL
50T 82	--	--	--	--	--	--	-	--	--	--	--	--	--	--	231PLVL	--	WL
50T 83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	231PLVL	--	WL
50U 1F	44.74	03-24-75	.0 - 84	10	.0 - 84	6	X	--	03-25-75	40	44.97	--	--	--	231BLBF	15	WL
			84 - 402	5.38													
50U 86	--	--	.0 - 200	--	.0 - 51	--	X	--	05-31-78	20	--	--	--	--	227CPCK	--	QW
50U 97	--	--	.0 - 452	--	.0 - 21	--	X	--	02-13-78	1	--	--	--	--	227DIBS	--	QW,WL
50U106	30	04-10-87	.0 - 250	--	.0 - 51	--	X	--	04-10-87	18	30	--	--	--	227GCRK	20	QW
50U110	31	03-10-80	.0 - 56	10	.0 - 56	6	X	--	03-10-80	30	31	--	--	--	227CPCK	26	WL
			56 - 345	6													

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
50U119	384603077302501	38 46 05	77 30 25	OF-07	IBM	--	--	222.7	V	200	U
50U120	384603077302502	38 46 04	77 30 25	OF-32	IBM	--	--	222.7	V	450	U
50U122	384657077301901	38 46 57	77 30 19	Well No 4 WG-04 175-00066	GMSD PWCSA VASWCB	Leazer	01-01-62	245	S	350	P
50U123	384715077302601	38 47 15	77 30 26	Well No 8 WG-08 175-00070 2422	GMSD PWCSA VASWCB VDMR	Leazer	01-09-69	230	S	555	P
50U124	384710077363701	38 47 10	77 36 37	Well No 13 WG-13 175-00077	GMSD PWCSA VASWCB	Stribling	07-01-63	320	S	300	P
50U125	384724077370301	38 47 24	77 37 03	Well No 14 WG-14 175-00078	GMSD PWCSA VASWCB	Stribling	01-01-70	350	S	300	P
50U126	384640077361101	38 46 09	77 35 52	Well No 17 WG-17	GMSD PWCSA	--	--	292	S	--	P
50U127	384819077342401	38 48 19	77 34 24	175-01640	VASWCB	Dominion	12-12-80	290	V	207	C
50U128	384627077373001	38 46 27	77 37 30	--	--	--	--	332	S	300	P
50U130	385205077352401	38 52 05	77 35 24	--	--	Dominion	11-02-81	315	S	300	H

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole Interval (feet)	Borehole Diameter (in.)	Casing Interval (feet)	Casing Diameter (in.)	Type of finish	Water zones/screens (feet)	Well yield Date	Well yield Discharge (gal/min)	Well yield Static level (feet)	Well yield Pumping level (feet)	Well yield Specific capacity [(gal/min)/ft]	Well yield Pumping period (hours)	Geologic unit	Depth to bedrock (feet)	Other data available
50U119	23.1	09-23-87	0.0 - 10	12	0.0 - 10	8	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
50U120	23.8	09-23-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													
50U122	105	11-23-83	.0 - 350	8	.0 - 50	8	X	70 - 80	01-01-73	85	--	--	--	--	231BLBF	10	QW,WL
								210 - 220	01-01-78	45	--	--	--	--			
50U123	90	01-09-69	.0 - 402	8	.0 - 100	8	X	150 - 160	01-09-69	300	90	382	1.03	24	231BLBF	3	QW,WL
			402 - 555	6.25				180 - 190	03-10-79	230	--	182	--	--			
								250 - 260	04-22-79	225	--	203	--	--			
								340 - 350	05-06-79	220	--	219	--	--			
								387 - 397	02-09-81	180	104	169	2.77	--			
									02-26-81	170	102	185	2.05	--			
									03-12-81	200	--	120	--	--			
50U124	48.61	09-22-87	.0 - 300	8	--	--	X	--	07-01-63	100	--	--	--	--	231BLBF	--	QW,WL
									01-01-78	50	--	--	--	--			
50U125	--	--	.0 - 300	6	--	--	X	--	01-01-70	100	--	--	--	--	227CPCK	--	QW,WL
									01-01-78	75	--	--	--	--			
50U126	--	--	--	--	--	--	--	--	--	--	--	--	--	--	227TMMP	--	QW,WL
50U127	15	12-12-80	.0 - 21	10	.0 - 21	6.63	X	190 - 190.5	12-12-80	20	15	--	--	1	227TMMP	6	WL
			21 - 207	6.13													
50U128	--	--	--	--	--	--	--	--	--	--	--	--	--	--	227DIBS	--	QW,WL
50U130	30	11-02-81	.0 - 25	10	.0 - 25	6.63	X	150 - 151	11-02-81	6	30	--	--	1	227CPCK	--	QW
			25 - 300	6.13				280 - 281									

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
50U132	384821077342001	38 48 21	77 34 20	--	--	Dominion	08-09-83	285	V	287	I
50U133	385117077341801	38 51 17	77 34 18	--	--	Leazer	01-26-83	310	S	355	I
50U135	384632077330501	38 46 32	77 33 05	L-27	PWCSA	Leazer	04-24-79	240	V	200	H
				175-01000	VASWCB						
50U136	385155077362801	38 51 55	77 36 28	--	--	Dominion	06-07-78	390	S	125	H
50U137	384621077364801	38 46 21	77 36 48	--	--	--	--	316	V	--	T
50V 89	385407077362401	38 54 07	77 36 24	--	--	Valley	03-21-91	355	H	265	H
51S 5	383607077245301	38 36 07	77 24 53	--	--	Minor M	11-01-61	383	H	280	P
51S 7	383423077245901	38 34 23	77 24 59	TW 2	USGS	Sydnor Hydro	09-28-73	295	S	490	U
51T 1A	384403077283801	38 44 02	77 28 36	Southside 2	UOSA	Valley	10-31-74	230	V	385	N
				Well No 1	UOSA						
51T 3	384006077261401	38 40 06	77 26 14	WO-09	PWCSA	--	--	360	S	500	P
51T 29E	384111077253501	38 41 11	77 25 35	Well No 1	Owner	Sydnor Hydro	03-03-75	330	H	250	P
				WO-06	PWCSA						
				175-00162	VASWCB						
51T108	384440077290601	38 44 40	77 29 11	OF-21	IBM	--	--	230.9	V	200	U

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole		Casing		Type of finish	Water zones/screens (feet)	Well yield						Geologic unit	Depth to bedrock (feet)	Other data available
			Interval (feet)	Diameter (in.)	Interval (feet)	Diameter (in.)			Date	Discharge (gal/min)	Static level (feet)	Pumping level (feet)	Specific capacity [(gal/min)/ft]	Pumping period (hours)			
50U132	1	08-09-83	0.0 - 30	10	0.0 - 32	6.63	X	97 - 98	08-09-83	20	1	--	--	1	227TMMP	21	WL
			30 - 287	6.13				253 - 255									
								271 - 275									
50U133	35	01-26-83	.0 - 20.5	10	-1 - 20.5	6.25	X	126 - 128	01-26-83	90	35	--	--	4	227CPCK	7	QW,WL
			20.5 - 355	6				188 - 190									
								230 - 232									
								307 - 308									
								331 - 333									
								345 - 347									
50U135	30	04-24-79	.0 - 52	10	-2.63- 52	6	X	80 - 90	04-24-79	60	30	80	1.2	4	231BLBF	10	QW,WL
			52 - 200	6				179 - 180									
50U136	--	--	--	--	-1.56- 50	6.63	X	--	06-07-78	8	--	--	--	--	227GCRK	--	QW,WL
50U137	--	--	--	--	--	--	--	--	--	--	--	--	--	--	227DIBS	--	QW,WL
50V 89	63	03-21-91	.0 - 59	10	-2.19- 60	6	X	50 - 230	03-21-91	50	63	--	--	3.5	227CPCK	10	WL
			59 - 265	6													
51S 5	33.01	10-26-72	.0 - 152	--	1.3 - 152	6	X	152 - 280	06-24-63	26	41	--	--	--	360LGRV	--	QW,WL
			152 - 280	--					03-03-82	10.5	37.56	74.6	0.28	1			
51S 7	7.86	09-28-73	.0 - 50	10	-2 - 50	6	X	50 - 490	09-24-73	6.5	7.86	97.86	.07	24	360LGRV	7	WL
			50 - 490	6					09-26-78	6.5	7.33	99.33	.07	24			
51T 1A	62	10-31-74	.0 - 385	6	.0 - 65	6	X	365 - 375	10-31-74	150	62	120	.86	8	231PLVL	--	QW,WL
51T 3	--	--	--	--	--	--	--	--	02-07-81	22	--	--	--	--	360LKJK	--	WL
51T 29E	47	03-03-75	.0 - 104	11	-2 - 104	6	X	110 - 130	03-03-75	36.5	47	98.17	.71	48	360PLLT	95	QW,WL
			104 - 250	6				145 - 205									
51T108	33.3	09-24-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231PLVL	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
51T117	384040077251901	38 40 40	77 25 19	WO-01 175-00039	PWCSA VASWCB	Vans Const	08-02-74	350	H	430	P
51T118	384040077251902	38 40 40	77 25 19	WO-02 175-00037	PWCSA VASWCB	Stribling	03-15-71	350	H	325	P
51T119	384040077251903	38 40 40	77 25 19	WO-03 175-00038	PWCSA VASWCB	Vans Const	05-09-73	350	H	380	P
51T120	384035077252901	38 40 35	77 25 29	WO-04 175-00040	PWCSA VASWCB	Vans Const	04-08-75	325	H	320	P
51T121	384030077252601	38 40 30	77 25 26	WO-05 175-00041	PWCSA VASWCB	Vans Const	04-10-75	310	S	380	P
51T122	383947077262001	38 39 47	77 26 20	Well No 1 WO-07 175-00106	Owner PWCSA VASWCB	Atlantic P&E	08-18-71	400	S	247	P
51T123	384116077255001	38 41 16	77 25 50	175-00163	VASWCB	Sydnor Hydro	03-18-75	280	H	400	P
51T134	383836077233601	38 38 36	77 23 36	175-01412	VASWCB	Dominion	10-30-80	330	S	145	H
51T140	383824077264301	38 38 24	77 26 43	175-01703	VASWCB	Moore C R	10-27-65	415	H	196	H
51T147	383941077282601	38 39 41	77 28 26	--	--	Dominion	08-27-81	325	S	125	H
51T151	384055077264001	38 40 55	77 26 40	--	--	Dominion	06-16-86	340	S	167	H
51T159	384419077232701	38 44 19	77 23 27	--	--	Dominion	03-05-85	175	S	185	H

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole Interval (feet)	Borehole Diameter (in.)	Casing Interval (feet)	Casing Diameter (in.)	Type of finish	Water zones/screens (feet)	Well yield Date	Well yield Discharge (gal/min)	Well yield Static level (feet)	Well yield Pumping level (feet)	Well yield Specific capacity [(gal/min)/ft]	Well yield Pumping period (hours)	Geologic unit	Depth to bedrock (feet)	Other data available
51T117	17	08-02-74	0.0 - 104	7	0.0 - 104	6.25	X	180 - 350	08-02-74	26	17	204	0.14	48	350MTTL	90	QW,WL
			104 - 430	6					- -78	19	--	--	--	--			
51T118	20	03-15-71	.0 - 113	7	.0 - 113	6.25	X	112 - 125	03-15-71	15	20	145	.12	24	350MTTL	102	QW,WL
			113 - 325	6.25				125.5 - 185									
								185.5 - 245									
51T119	100	05-09-73	.0 - 380	6.25	.0 - 119.5	6.25	X	230 - 240	05-09-73	17.5	100	--	--	1	350MTTL	80	QW,WL
51T120	80	04-08-75	.0 - 50	9	.0 - 160	6.25	X	--	04-08-75	22	80	240	.14	48	350MTTL	106	QW,WL
			50 - 320	7													
51T121	60	04-10-75	.0 - 50	9	.0 - 112	6.25	X	--	04-10-75	33	60	230	.19	48	350MTTL	80	WL
			50 - 380	7													
51T122	18	08-18-71	.0 - 53	12	.0 - 53	6	X	58 - 60	08-18-71	29	18	215	.15	31	360LKJK	--	QW,WL
			53 - 247	6				70 - 72	04-23-81	15	37	191	.1	--			
								168 - 170	09-07-82	9	46.2	131.67	.11	39			
51T123	44	03-18-75	.0 - 70	11	-2 - 70	6	X	75 - 80	03-18-75	9	44	96.67	.17	48	360PCBC	60	WL
			70 - 400	6				119 - 120									
51T134	20	10-30-80	.0 - 68	10	.0 - 145	6.63	X	130 - 131	10-30-80	12	20	145	.1	--	360PLLT	--	QW
			68 - 145	6.13													
51T140	27	10-27-65	.0 - 73	12	.0 - 73	6.25	X	175 - 180	10-27-65	15	27	--	--	2	360LKJK	--	QW,WL
			73 - 196	6.25													
51T147	25	08-27-81	.0 - 74	10	.0 - 74	6.63	X	115 - 115.5	08-27-81	20	25	--	--	1	360LKJK	--	QW
			74 - 125	6.13													
51T151	40	06-16-86	.0 - 50	10	-2 - 50	6.25	X	78 - 80	06-16-86	15	40	--	--	2	350MTTL	--	QW
			50 - 167	6.13				140 - 145									
51T159	40	03-05-85	.0 - 63	10	.0 - 64	6.63	X	75 - 80	03-05-85	18	40	--	--	1	360OCCQ	--	QW
			63 - 185	6.13				165 - 170									

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
51T166	383923077260201	38 39 23	77 26 02	WO-08	PWCSA	Leazer	09-29-87	420	H	302	P
51T167	384207077272801	38 42 07	77 27 28	--	--	Danielson	10-23-79	265	H	120	H
51T168	384332077231901	38 43 32	77 23 19	Well No 2	Owner	Leazer	11-14-73	135	S	400	P
				175-00033	VASWCB						
51T171	384005077261701	38 40 05	77 26 17	WO-10	PWCSA	Dominion	06-11-81	375	S	400	P
51T172	384052077255601	38 40 52	77 25 56	WO-12	PWCSA	Vans Const	01-14-86	255	S	270	P
51T173	384050077255601	38 40 50	77 25 56	WO-13	PWCSA	Vans Const	09-19-86	250	W	365	P
51T174	383812077263301	38 38 12	77 26 33	WO-14	PWCSA	--	--	405	H	--	P
51T175	383754077250501	38 37 54	77 25 05	WO-15	PWCSA	--	--	340	S	415	P
				175-00263	VASWCB						
51T176	383922077263501	38 39 22	77 26 35	WO-16	PWCSA	--	--	412	H	--	P
51U 4H	384520077263001	38 45 51	77 26 31	Well No 2	UOSA	Valley	11-06-74	210	V	250	N
51U 7H	384616077263501	38 46 16	77 26 35	Well No 11	Manassas Park	Sydnor Hydro	01-28-77	280	S	700	P
				175-00197	VASWCB						

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole		Casing		Type of finish	Water zones/screens (feet)	Well yield						Geologic unit	Depth to bedrock (feet)	Other data available
			Interval (feet)	Diameter (in.)	Interval (feet)	Diameter (in.)			Date	Discharge (gal/min)	Static level (feet)	Pumping level (feet)	Specific capacity [(gal/min)/ft]	Pumping period (hours)			
51T166	20	09-29-87	0.0 - 120	12.5	0.0 - 120	10	X	205 - 209	12-01-87	70.5	41.33	161.09	0.59	48	360PLLT	167	QW,WL
			120 - 128	9.88	-2.93-169	6		225 - 230									
			128 - 165	6.13				271 - 276									
			165 - 302	5.94													
51T167	40	10-23-79	.0 - 100	9	-1 - 100	6.25	X	100 - 120	10-23-79	25	40	60	1.25	2	360LKJK	67	QW,WL
			100 - 120	6													
51T168	40	11-14-73	.0 - 102	12	-1.5 - 102	6	X	147 - 148	11-14-73	23	40	--	.1	25	360OCCQ	40	QW
			102 - 400	6.13				221 - 222									
								312 - 313									
51T171	40	06-11-81	.0 - 55	10	.0 - 55	6	X	54 - 63	06-11-81	37	40	--	1	--	360LKJK	39	QW,WL
			55 - 400	6				75 - 80	10-19-81	30	126	255.36	.23	48			
								155 - 160									
51T172	40	01-14-86	.0 - 70	12	.0 - 70	6	X	110 - 120	01-14-86	45	40	--	--	48	360PCBC	60	QW,WL
			70 - 270	6				150 - 160									
								230 - 250									
51T173	53	09-19-86	.0 - 110	11	.0 - 110	6	X	143 - 145	10-11-86	26	53	352	.09	48	360PCBC	110	QW,WL
			110 - 365	6				215 - 220									
								310 - 312									
								355 - 360									
51T174	--	--	--	--	--	--	--	--	--	--	--	--	--	--	360LKJK	--	QW,WL
51T175	--	--	--	--	--	--	--	--	--	--	--	--	--	--	360PLLT	80	QW,WL
51T176	--	--	--	--	--	--	--	--	--	--	--	--	--	--	360LKJK	--	WL
51U 4H	6	11-06-74	.0 - 250	6	.0 - 56	6	Z	230 - 240	02-28-75	150	6	40	4.41	4	231PLVL	--	QW,WL
51U 7H	89	01-28-77	.0 - 50	12	-2 - 50	7	X	68 - 69	01-28-77	65	89	244	.42	48	231PLVL	6	WL
			50 - 700	6.25				128 - 130									
								142 - 144									
								194 - 195									

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
51U 9G	384601077274301	38 46 01	77 27 43	Liberia #1 175-00057	Breeden VASWCB	Seek	10-27-59	300	H	912	P
51U 10	384705077265401	38 47 05	77 26 54	Well No 6 WY-06 175-00056	YSD PWCSA VASWCB	Leazer	03-22-75	190	S	400	P
51U 11	384728077270601	38 47 28	77 27 06	Well No 9 WY-09 175-00048	YSD PWCSA VASWCB	Manassas	01-01-59	228	S	343	P
51U 16	384644077271101	38 46 44	77 27 11	Well No 11 WY-11 175-00049	YSD PWCSA VASWCB	Manassas	01-01-00	270	H	790	P
51U 19D	384751077295201	38 47 41	77 29 50	Well No 9 WG-09 175-00071	GMSD PWCSA VASWCB	Dominion	06-21-76	185	W	700	P
51U 20G	384630077281501	38 46 10	77 28 16	Well No 5 175-00084	Manassas VASWCB	Manassas	10-01-68	275	S	1,005	P
51U 92G	384544077273601	38 45 09	77 28 11	Well No 4 175-00083	Manassas VASWCB	Seely	01-01-29	295	H	290	P

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole		Casing		Type of finish	Water zones/screens (feet)	Well yield						Geologic unit	Depth to bedrock (feet)	Other data available
			Interval (feet)	Diameter (in.)	Interval (feet)	Diameter (in.)			Date	Discharge (gal/min)	Static level (feet)	Pumping level (feet)	Specific capacity [(gal/min)/ft]	Pumping period (hours)			
51U 9G	75	10-27-59	0.0 - 50	15	0.0 - 52	8	X	149 - 151	10-27-59	735	75	125	14.7	10	231PLVL	17	WL
			50 - 912	8				370 - 378									
								617 - 630									
								870 - 895									
51U 10	50	03-22-75	.0 - 51	12	-2 - 51	8	X	133 - 135	03-22-75	205	50	310	0.79	48	231PLVL	20	QW,WL
			51 - 400	8				223 - 225	02-09-81	225	--	--	--	--			
								308 - 309	02-26-81	225	--	--	--	--			
									03-12-81	230	--	--	--	--			
									04-14-81	225	--	--	--	--			
51U 11	98	01-17-64	.0 - 343	8	--	8	X	--	01-17-64	300	--	--	--	--	231PLVL	--	QW,WL
									02-09-81	135	--	--	--	--			
51U 16	96.04	09-22-87	.0 - 790	8	--	8	X	--	01-17-67	200	--	--	--	--	231PLVL	--	QW,WL
									02-12-81	140	--	--	--	--			
									02-18-81	147	--	--	--	--			
									02-26-81	170	--	--	--	--			
									03-12-81	147	--	--	--	--			
51U 19D	55	06-21-76	.0 - 53	12	.0 - 53	8	X	180 - 185	06-21-76	106	55	430	.28	48	231BLBF	--	QW,WL
			53 - 700	8				310 - 320									
								510 - 515									
								600 - 615									
								650 - 660									
51U 20G	170	10-01-68	.0 - 50	16	.0 - 50	8	X	--	10-01-68	200	170	250	2.5	12	231PLVL	--	WL
			50 -1,005	8													
51U 92G	69	01-01-29	.0 - 290	6	.0 - 30	6	X	--	01-01-29	65	--	--	--	--	231PLVL	--	WL
									01-01-70	172	--	--	--	--			
									01-01-75	95	--	--	--	--			

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
51U 94G	384531077283001	38 45 31	77 28 30	Well No 6 175-00085	Manassas VASWCB	Hagmann	10-26-50	295	H	485	P
51U 97H	384632077273401	38 46 33	77 27 33	Well No 4 175-00193	Manassas Park VASWCB	Hagmann	08-26-55	250	H	1,000	P
51U 98G	384721077281801	38 47 23	77 28 25	Well No 2 WG-02 175-00065	GMSD PWCSA VASWCB	--	01-01-62	170	S	305	P
51U 99G	384702077284201	38 47 03	77 28 45	Well No 1 WG-01 175-00064	GMSD PWCSA VASWCB	--	01-01-00	195	H	900	P
51U100G	384712077290201	38 47 11	77 29 05	Well No 6 WG-06 175-00068	GMSD PWCSA VASWCB	--	01-01-00	175	S	397	P
51U101G	384707077293701	38 47 07	77 29 37	Well No 5 WG-05 175-00067	GMSD PWCSA VASWCB	--	01-01-63	195	S	300	P
51U102D	384740077292101	38 47 40	77 29 23	Well No 10 WG-10 175-00072	GMSD PWCSA VASWCB	Dominion	03-10-77	170	S	650	P
51U103G	384702077283401	38 47 02	77 28 33	Well No 9 175-00195	Manassas Park VASWCB	Sydnor Hydro	11-24-71	210	C	925	P
51U104G	384652077280401	38 46 52	77 28 02	Well No 6 175-00194	Manassas Park VASWCB	--	01-01-68	230	S	945	P
51U105G	384617077292601	38 46 15	77 29 28	Well No 7 WG-07 175-00069	GMSD PWCSA VASWCB	Manassas	06-15-59	220	H	832	P
51U106D	384741077284401	38 47 38	77 28 43	Well No 11 WG-11 175-00073	GMSD PWCSA VASWCB	Dominion	11-02-77	170	S	515	P

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole		Casing		Type of finish	Water zones/screens (feet)	Well yield						Geologic unit	Depth to bedrock (feet)	Other data available
			Interval (feet)	Diameter (in.)	Interval (feet)	Diameter (in.)			Date	Discharge (gal/min)	Static level (feet)	Pumping level (feet)	Specific capacity [(gal/min)/ft]	Pumping period (hours)			
51U 94G	75	10-26-50	0.0 - 50	13	0.0 - 55	8	X	--	10-26-50	66	75	300	0.29	24	231PLVL	3	WL
			50 - 485	8					10-26-50	72	75	300	.32	8			
51U 97H	60	08-26-55	.0 - 55	15	.0 - 58	8	X	--	08-26-55	327	60	166	3.08	34	231PLVL	8	QW
			55 -1,000	8					09-26-55	150	149	265	1.29	--			
									08-26-55	350	60	166	3.3	36			
									02-16-77	150	143.5	300	.96	4			
51U 98G	--	--	--	--	--	--	--	--	--	--	--	--	--	--	231BLBF	--	QW
51U 99G	--	--	--	--	--	--	--	--	--	--	--	--	--	--	231BLBF	--	QW,WL
51U100G	50	03-01-67	--	--	--	--	--	--	01-01-00	155	50	310	.6	--	231BLBF	--	QW,WL
51U101G	50	06-01-63	--	--	--	--	--	--	01-01-63	300	50	300	1.2	--	231BLBF	--	QW,WL
51U102D	27	03-10-77	.0 - 59	12	.0 - 59	8	X	--	03-10-77	258	27	162	1.91	48	231BLBF	5	QW,WL
			59 - 650	8					03-13-77	249	--	136	--	--			
									09-01-77	298	--	348	--	--			
									02-09-81	205	93	180	2.36	--			
									02-26-81	205	97	208	1.85	--			
51U103G	61	11-24-71	.0 - 50	16	-1.5 - 50	12	X	310 - 311	11-24-71	554	61	258	2.81	24	231BLBF	8	QW,WL
			50 - 400	12				436 - 440									
			400 - 925	6.5				545 - 546									
51U104G	35	01-01-68	.0 - 945	8	--	8	X	--	01-01-68	325	35	--	--	--	231PLVL	--	QW,WL
									02-17-77	270	190	214	11.25	2			
51U105G	57	06-15-59	.0 - 50	13	.0 - 55	8	X	820 - 832	06-15-59	420	57	132	5.6	28	231BLBF	8	WL
			50 - 832	8													
51U106D	40	11-02-77	.0 - 68.5	12	.0 - 67.5	8	X	--	03-01-77	300	40	140	4.5	--	231BLBF	5	QW,WL
			68.5 - 515	8					11-02-77	300	--	--	--	51			
									06-01-79	410	--	145	--	--			
									02-09-81	360	--	--	--	--			

Table 1. Well-construction data for selected wells in Prince William County--Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
51U111	384554077291501	38 45 54	77 29 15	Well No 8 175-00087	Manassas VASWCB	Manassas	05-15-62	270	S	850	P
51U112	384607077295001	38 46 10	77 29 55	MW-1	IBM	--	--	220.22	H	200	U
51U113	384609077294101	38 46 09	77 29 41	MW-2	IBM	--	--	198.81	V	200	U
51U114	384605077293201	38 46 06	77 29 33	MW-3	IBM	--	--	220.48	S	200	U
51U115	384620077293401	38 46 20	77 29 35	MW-4	IBM	--	--	185	V	200	U
51U116	384618077292101	38 46 19	77 29 21	MW-5	IBM	--	--	217.28	S	200	U
51U117	384609077291701	38 46 10	77 29 17	MW-6	IBM	--	--	232.23	H	200	U
51U118	384537077295001	38 45 39	77 29 49	MW-8	IBM	--	--	247.15	H	200	U
51U120	384654077292601	38 46 51	77 29 33	OF-01	IBM	--	--	200.3	S	200	U
51U121	384654077292602	38 46 51	77 29 33	OF-26	IBM	--	--	200.8	S	450	U
51U122	384643077291101	38 46 48	77 29 08	OF-03	IBM	--	--	193.2	S	200	U
51U123	384643077291102	38 46 48	77 29 08	OF-28	IBM	--	--	191.8	S	450	U
51U124	384623077295101	38 46 22	77 29 51	OF-04	IBM	--	--	198.8	V	200	U

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole		Casing		Type of finish	Water zones/screens (feet)	Well yield						Geologic unit	Depth to bedrock (feet)	Other data available
			Interval (feet)	Diameter (in.)	Interval (feet)	Diameter (in.)			Date	Discharge (gal/min)	Static level (feet)	Pumping level (feet)	Specific capacity [(gal/min)/ft]	Pumping period (hours)			
51U111	60	05-15-62	0.0 - 50	13	0.0 - 52	8	X	840 - 850	05-15-62	360	60	135	4.8	24	231BLBF	8	WL
			50.0 - 850	8													
51U112	68.69	09-25-87	--	--	--	--	X	--	--	--	--	--	--	--	231BLBF	--	WL
51U113	63.29	09-25-87	--	--	--	--	X	--	--	--	--	--	--	--	231BLBF	--	WL
51U114	85.79	09-25-87	--	--	--	--	X	--	--	--	--	--	--	--	231BLBF	--	WL
51U115	61.98	09-25-87	--	--	--	--	X	--	--	--	--	--	--	--	231BLBF	--	WL
51U116	105.88	09-25-87	--	--	--	--	X	--	--	--	--	--	--	--	231BLBF	--	WL
51U117	84.44	09-25-87	--	--	--	--	X	--	--	--	--	--	--	--	231BLBF	--	WL
51U118	87.07	09-25-87	--	--	--	--	X	--	--	--	--	--	--	--	231BLBF	--	WL
51U120	78.2	09-22-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
51U121	78.9	09-22-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													
51U122	79.7	09-22-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
51U123	79.55	09-22-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													
51U124	62.8	09-22-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
51U125	384623077295102	38 46 21	77 29 51	OF-29	IBM	--	--	197.4	V	450	U
51U126	384548077295801	38 45 48	77 29 59	OF-08	IBM	--	--	237.2	S	200	U
51U127	384548077295802	38 45 48	77 29 58	OF-33	IBM	--	--	237.1	S	450	U
51U129	384557077294002	38 45 47	77 29 40	OF-34	IBM	--	--	211.2	V	400	U
51U130	384541077292401	38 45 41	77 29 29	OF-10	IBM	--	--	245.3	S	200	U
51U131	384541077292402	38 45 41	77 29 28	OF-35	IBM	--	--	245.4	S	450	U
51U132	384504077290001	38 45 04	77 28 59	OF-12	IBM	--	--	291.8	S	200	U
51U133	384504077290002	38 45 05	77 28 58	OF-37	IBM	--	--	291.9	S	450	U

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole		Casing		Type of finish	Water zones/screens (feet)	Well yield						Geologic unit	Depth to bedrock (feet)	Other data available
			Interval (feet)	Diameter (in.)	Interval (feet)	Diameter (in.)			Date	Discharge (gal/min)	Static level (feet)	Pumping level (feet)	Specific capacity [(gal/min)/ft]	Pumping period (hours)			
51U125	73.30	09-22-87	0.0 - 10	14	0.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													
51U126	80.35	09-23-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
51U127	83.15	09-23-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													
51U129	62.90	09-23-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 350	10	.0 - 350	6											
			350 - 400	6													
51U130	64.95	09-22-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
51U131	65.70	09-22-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													
51U132	84.70	09-23-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231PLVL	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
51U133	88.50	09-23-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231PLVL	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													

Table 1. Well-construction data for selected wells in Prince William County--Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
51U134	384524077291801	38 45 24	77 29 19	OF-23	IBM	--	--	252.3	V	200	U
51U135	384518077294001	38 45 17	77 29 37	OF-24	IBM	--	--	255.1	H	200	U
51U136	384518077294002	38 45 17	77 29 37	OF-43	IBM	--	--	254.4	H	450	U
51U137	384627077285801	38 46 27	77 28 59	OF-31	IBM	--	--	233.9	S	450	U
51U138	384603077284501	38 46 08	77 28 40	OF-44	IBM	--	--	220.9	S	200	U
51U139	384540077283701	38 45 39	77 28 34	OF-45	IBM	--	--	285.5	S	200	U
51U140	384554077291901	38 45 54	77 29 17	OF-47	IBM	--	--	224.7	V	200	U
51U141	384554077291902	38 45 54	77 29 18	OF-46	IBM	--	--	223.4	V	450	U

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole Interval (feet)	Borehole Diameter (in.)	Casing Interval (feet)	Casing Diameter (in.)	Type of finish	Water zones/screens (feet)	Well yield Date	Well yield Discharge (gal/min)	Well yield Static level (feet)	Well yield Pumping level (feet)	Well yield Specific capacity [(gal/min)/ft]	Well yield Pumping period (hours)	Geologic unit	Depth to bedrock (feet)	Other data available
51U134	71.50	09-23-87	0.0 - 10	12	0.0 - 10	8	X	--	--	--	--	--	--	--	231PLVL	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
51U135	61.05	09-23-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
51U136	83.05	09-23-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													
51U137	135.60	09-22-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													
51U138	44.30	09-22-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231PLVL	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
51U139	88.90	09-22-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231PLVL	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
51U140	90.45	09-22-87	.0 - 10	12	.0 - 10	8	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
51U141	50.35	09-22-87	.0 - 10	14	.0 - 10	10	X	--	--	--	--	--	--	--	231BLBF	--	WL
			10 - 400	10	.0 - 400	6											
			400 - 450	6													

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
51U142	384536077285501	38 45 36	77 28 56	OF-48	IBM	--	--	259.1	S	200	U
52S 3	383343077220601	38 33 43	77 22 06	175-00013 Well 4 2233 013	VASWCB NPS VDMR VWCB Bull 303	Sydnor Hydro	06-01-68	175	S	103	P
52S 4	383634077151301	38 36 34	77 15 13	TW No 1 175-00008 022	USGS VASWCB VWCB Bull 303	Magette R L	06-25-69	28	F	186	U
52S 5	383634077151302	38 36 34	77 15 13	TW No 2 175-00009 023	USGS VASWCB VWCB Bull 303	Magette R L	06-01-69	28	F	114	U
52S 12	383546077185201	38 35 47	77 18 52	175-00005 002	VASWCB VWCB Bull 303	Sydnor Hydro	08-19-63	180	T	372	H
52S 14	383354077220801	38 33 54	77 22 08	--	--	CCC	01-01-36	192	H	206	P
52S 18	383500077222201	38 35 00	77 22 22	--	--	Minor M	01-24-64	230	S	343	P
52S 20	383610077211301	38 36 11	77 21 13	--	--	Minor M	12-11-63	275	S	178	U
52S 21	383552077211601	38 35 53	77 21 15	--	--	CCC	01-01-32	265	H	167	U
52S 24	383328077203401	38 33 29	77 20 34	--	--	Minor M	11-06-61	188	H	178	P
52S 26	383440077214801	38 34 41	77 21 48	--	--	--	01-01-36	222	F	18.5	U
52S 29	383551077221601	38 35 52	77 22 17	TW 1	USGS	Sydnor Hydro	09-10-73	245	S	350	U
52S 30	383330077204801	38 33 31	77 20 49	TW 3	USGS	Sydnor Hydro	04-14-75	233	S	310	P

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole Interval (feet)	Borehole Diameter (in.)	Casing Interval (feet)	Casing Diameter (in.)	Type of finish	Water zones/screens (feet)	Well yield Date	Well yield Discharge (gal/min)	Well yield Static level (feet)	Well yield Pumping level (feet)	Well yield Specific capacity [(gal/min)/ft]	Well yield Pumping period (hours)	Geologic unit	Depth to bedrock (feet)	Other data available
51U142	69.90	09-22-87	0.0 - 10	12	0.0 - 10	8	X	--	--	--	--	--	--	--	231PLVL	--	WL
			10 - 150	8	.0 - 150	4											
			150 - 200	4													
52S 3	10	06-26-68	.0 - 39	11	-2 - 39	6	X	39 - 103	06-26-68	16	10	66	0.29	7.5	377CPMC	--	WL
			39 - 103	6					03-10-82	10	10.11	32.49	.45	1			
52S 4	19.52	06-25-69	.0 - 240	10	-1.9 - 156	10	G	156 - 176	06-25-69	150	19.51	114.51	1.58	8	217PTMC	--	WL
					176 - 186	6											
52S 5	18.96	07-01-69	--	--	.0 - 95	6	G	95 - 105	01-26-70	152	20.96	57.96	4.11	8	217PTMC	--	WL
					105 - 114	6											
52S 12	55	08-19-63	.0 - 65	8.75	3 - 66.83	--	X	66.83 - 372	08-19-63	5	55	218	.03	3	361QNTC	--	WL
			65 - 372														
52S 14	30	11-01-73	.0 - 206	6	--	6	X	0.0 - 206	11- -73	24	30	72	.57	5	377CPMC	15	QW,WL
									03-04-82	15	35.52	54.89	.77	1			
52S 18	28.89	10-26-72	.0 - 343		-1.3- --	5.65	X	--	10-26-72	18	--	--	--	--	360LGRV	--	QW,WL
52S 20	30.95	10-26-72	.0 - 178	5	-1.2- --	5.65	X	--	10-26-72	40	--	--	--	--	377CPMC	--	WL
52S 21	27.52	10-25-72	.0 - 167	6	--	--	--	--	- -56	30	--	--	--	--	377CPMC	--	WL
52S 24	66.7	10-25-72	.0 - 155	5.65	-1.1 - 155	5.65	X	155 - 178	06-27-63	57	--	--	--	2.5	361QNTC	--	QW,WL
			155 - 178	5.65					03-04-82	13.6	68.13	84.58	.83	--			
52S 26	5.06	11-08-72	.0 - 18.5	22	.0 - 18.5	22	W	.0 - 18.5	--	--	--	--	--	--	217PTMC	--	WL
52S 29	-1.67	09-28-73	.0 - 50	10	-5 - 50	6	X	50 - 350	09-10-73	0.25	--	--	--	--	360LGRV	--	WL
			50 - 350	6													
52S 30	63.82	04-14-75	.0 - 20	11.25	-1.6 - 60	6	G	60 - 70	04-14-75	12.3	63.82	135.82	.17	24	377CPMC	--	QW
			20 - 160	9.87	70 - 100	6	X	100 - 110	03-04-82	13	58.52	65.63	1.83	--			
			160 - 310	5.87	110 - 160	6		160 - 310									

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
52S 44	383023077183201	38 30 23	77 18 32	175-00034	VASWCB	Layne-Atlant	- -30	15	V	355	U
52S 46	383726077151001	38 37 26	77 15 10	L-16	PWCSA	--	--	10	F	--	H
52S 47	383359077164201	38 33 59	77 16 42	--	--	Danielson	10-12-90	190	H	180	H
52S 48	383152077183801	38 31 52	77 18 38	--	--	Vans Const	--	33	V	--	I
52S 49	383552077153601	38 35 52	77 15 36	--	--	--	--	105	H	--	
52S 50	383412077171801	38 34 12	77 17 18	175-00139	VASWCB	Taylor	--	205	H	185	H
52S 51	383332077155401	38 33 32	77 15 54	--	--	Minor M	--	70	T	105	U
52S 52	383337077155301	38 33 37	77 15 53	--	--	Danielson	07-10-91	60	T	345	N
52S 56	383520077151501	38 35 20	77 15 15	--	--	Vans Const	10-19-88	25	V	250	P
52S 57	383442077184501	38 34 42	77 18 45	--	--	--	--	55	W	14	U
52T 44	384224077212201	38 42 24	77 21 22	--	--	NoVaWell	12-23-88	295	S	400	H
52T 52	383940077180601	38 39 38	77 18 05	175-01243	VASWCB	Dominion	11-14-79	280	S	370	H
52T 66	383749077174001	38 37 49	77 17 40	175-00062	VASWCB	Leazer	05-27-70	215	H	340	C
52T 67	383940077180602	38 39 38	77 18 05	--	--	Taylor	--	280	H	--	U

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole Interval (feet)	Borehole Diameter (in.)	Casing Interval (feet)	Casing Diameter (in.)	Type of finish	Water zones/screens (feet)	Well yield Date	Well yield Discharge (gal/min)	Well yield Static level (feet)	Well yield Pumping level (feet)	Well yield Specific capacity [(gal/min)/ft]	Well yield Pumping period (hours)	Geologic unit	Depth to bedrock (feet)	Other data available
52S 44	--	--	--	--	0.0 - 208.5	13	S	232 - --	- -30	220	--	--	--	--	217PTMC	--	QW
					208.5 - 230	10		324 - --									
					230 - 232	8		344.5 - --									
52S 46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	112CLMB	--	WL
52S 47	60	10-12-90	0.0 - 126	10	-1 - 126	6.25	S	150 - 170	10-15-90	20	60	120	0.3	--	217PTMC	--	QW,WL
			126 - 180	6.13	120 - 150	4											
					170 - 180	4											
52S 48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	217PTMC	--	WL
52S 49	--	--	--	--	--	6	--	--	--	--	--	--	--	--	217PTMC	--	QW,WL
52S 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	217PTMC	--	WL
52S 51	75	01-07-69	--	--	.0 - 97	10	S	97 - 105	- -68	12	75	95	.6	--	217PTMC	--	QW,WL
52S 52	65	07-10-91	.0 - 68	21	.0 - 74	15.63	G	294 - 304	--	--	--	--	--	--	217PTMC	--	QW,WL
			68 - 397	15	-1 - 294	8		320 - 340									
			397 - 407	10	304 - 320	8											
					340 - 345	8											
52S 56	25	10-19-88	.0 - 250	12	.0 - 210	6	S	225 - 245	10-31-91	150	--	--	.2	2	217PTMC	--	WL
					210 - 225	4											
					245 - 250	4											
52S 57	--	--	--	--	-2.42- --	36	--	--	--	--	--	--	--	--	217PTMC	--	WL
52T 44	64	12-23-88	.0 - 69	9.75	.0 - 70	6.63	X	250 - 253	12-23-88	7	50	--	--	1	360OCCQ	--	QW
			69 - 400	6.13				316 - 317									
52T 52	--	--	.0 - 42	10	.0 - 42	6.25	X	65 - 66	11-14-79	3	--	--	--	1	360OCCQ	41	QW
			.0 - 370	6.13				93 - 95									
52T 66	--	--	.0 - 40	8.75	.0 - 40	6.25	X	260 - 262	06-02-70	60	--	--	--	2	361QNTC	40	QW
			40 - 340	6.13				320 - 323									
52T 67	--	--	--	--	--	6.25	--	--	--	--	--	--	--	--	360OCCQ	--	WL

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Latitude and longitude are reported in degrees, minutes, seconds; depths are measured from land surface datum; altitude is land surface in reference to sea level; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Site identification number	Latitude	Longitude	Other identifier	Assignor of other identifier	Driller	Date of construction	Altitude of land surface (feet)	Topo-graphic setting	Depth of well (feet)	Use of water
52T 68	383940077180603	38 39 38	77 18 05	--	--	--	--	280	H	31.3	U
53S 1	383527077145101	38 35 27	77 14 51	--	--	--	--	3	V	300	U
53T 1	383830077135501	38 38 30	77 13 55	--	--	Sydnor Hydro	12-01-50	5	F	164	U
53T 2 SOW 029	383830077135502	38 38 30	77 13 55	SOW 029 175-00029	SWCB VASWCB	Sydnor Hydro	01-01-50	5	F	162	U
53T 55	383950077143601	38 39 53	77 14 35	--	--	Vans Const	08-11-87	83	T	105	H
53T 56	383912077144901	38 39 12	77 14 49	--	--	Vans Const	03-16-87	22	G	430	H
53T 57	383806077145201	38 38 06	77 14 52	--	--	--	--	5	V	20	U

Table 1. Well-construction data for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; in., indicates inches; gal/min, indicates gallons per minute; (gal/min)/ft, indicates gallons per minute per foot of drawdown; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Water level (feet)	Date of measurement	Borehole		Casing		Type of finish	Water zones/screens (feet)	Well yield						Geologic unit	Depth to bedrock (feet)	Other data available
			Interval (feet)	Diameter (in.)	Interval (feet)	Diameter (in.)			Date	Discharge (gal/min)	Static level (feet)	Pumping level (feet)	Specific capacity [(gal/min)/ft]	Pumping period (hours)			
52T 68	--	--	--	--	--	24	--	--	--	--	--	--	--	--	360OCCQ	--	WL
53S 1	--	--	--	--	--	8	--	--	--	--	--	--	--	--	217PTMC	--	WL
53T 1	3	01-23-69	--	--	0.0 - 145	10	S	145 - 155	01-23-69	37.5	3	120	.32	4	217PTMC	--	WL
								155 - 159									
53T 2 SOW 029	8	03-24-70	0.0 - 162	10	.0 - 130	6	--	130 - 156	--	--	--	--	--	--	217PTMC	--	WL
					156 - 162	6											
53T 55	40	08-11-87	.0 - 82	10	.0 - 82	6	X	90 - 95	08-11-87	20	40	--	--	2	361QNTC	--	WL
			82 - 105	6	82 - 105	4											
53T 56	20	03-16-81	.0 - 104	11	.0 - 104	6	X	150 - 250	03-16-81	25	20	--	--	4	377CPMC	--	QW
			104 - 430	6													
53T 57	--	--	--	--	-.32- --	24	--	--	--	--	--	--	--	--	112CLMB	--	WL

Table 2. Synoptic water-level measurements for selected wells in Prince William County

EXPLANATION OF CODES

Agency		Recovery period		Site status	
IBM	International Business Machines, Inc	N	Unknown	D	Dry
USGS	U.S. Geological Survey	U	Unused well	F	Flowing
VWCB	Virginia Water Control Board	W	Observation well	P	Pumped
				R	Recently pumped
				S	Static conditions

Method of measurement		Geologic unit	
C	Calibrated airline	112CLMB	Columbia Group
G	Pressure gauge	217PTMC	Potomac Group
S	Steel tape	227CPCK	Catharpin Creek Formation of the Culpeper Group
T	Electric tape	227DIBS	Diabase
X	Water level was not measured	227GCRK	Goose Creek Member of the Catharpin Creek Formation
		227HKGV	Hickory Grove Basalt of the Culpeper Group
		227MDLD	Midland Formation of the Culpeper Group
		227MZCC	Mount Zion Church Basalt of the Culpeper Group
		227TMMP	Thermally metamorphosed rocks
		227TRKR	Turkey Run Formation of the Culpeper Group
		227WRFL	Waterfall Formation of the Culpeper Group
		231BLBF	Balls Bluff Siltstone of the Culpeper Group
		231PLVL	Poolesville Member of the Manassas Sandstone
		377CPMC	Chopawamsic Formation
		350MTTL	Metatonalite[1]
		360LGRV	Lunga Reservoir Formation
		360LKJK	Lake Jackson Pluton[1]
		360OCCQ	Occoquan Pluton[1]
		360PCBC	Purcell Branch Formation
		360PLLT	Phyllite[1]
		361QNTC	Quantico Formation
		377CHLH	Chilhowee Group

[1]Unit follows usage of U.S. Geological Survey Open-File Report 90-548 (Pavlides, 1990).

Table 2. Synoptic water-level measurements for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; dashes (--) indicate that water levels were not measured. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Agency	Recovery period (hours)	Water level (feet)	Site status	Method of measurment
49T 74	231BLBF	03-27-91	USGS	N	30.44	R	S
		10-24-91	USGS	N	37.02	S	S
49U 1	227WRFL	04-26-91	USGS	W	5.05	S	S
		10-29-91	USGS	W	10.01	S	S
49U 60	227CPCK	03-28-91	USGS	N	27.42	R	S
		10-23-91	USGS	N	31.12	R	S
49U 62	227MZCC	03-21-91	USGS	N	22.32	R	S
		10-17-91	USGS	0.5	39.30	R	S
49U 72	227CPCK	03-21-91	USGS	1.3	75.97	R	S
		10-22-91	USGS	11.3	55.92	R	S
49U 73	227CPCK	03-21-91	USGS	.8	51.59	R	S
		10-22-91	USGS	1.3	64.25	R	S
49U 74	227MZCC	04-02-91	USGS	N	31.27	R	S
		10-23-91	USGS	16	33.63	S	S
49U 75	227TMMP	04-04-91	USGS	N	20.72	S	S
		10-22-91	USGS	N	24.52	S	S
49U 76	227CPCK	04-03-91	USGS	U	11.77	S	S
		10-23-91	USGS	U	16.22	S	S
49U 77	227CPCK	04-03-91	USGS	U	--	F	X
		10-23-91	USGS	U	2.35	S	S
49U 78	227CPCK	04-03-91	USGS	U	9.23	S	S
		10-23-91	USGS	U	12.69	S	S
49U 79	227CPCK	04-03-91	USGS	U	3.05	S	S
		10-23-91	USGS	U	5.71	S	S
49V 1	227TRKR	04-26-91	USGS	W	9.13	S	S
		10-29-91	USGS	W	11.95	S	S
49V 43	227MDLD	03-27-91	USGS	N	7.94	R	S
		10-23-91	USGS	N	13.86	R	S
49V 49	377CHLH	03-22-91	USGS	1.8	33.56	R	S
		10-22-91	USGS	2.6	79.06	R	S
49V 50	377CHLH	03-22-91	USGS	1.6	33.98	R	S
		10-18-91	USGS	2.4	60.42	R	S
49V 52	377CHLH	03-21-91	USGS	U	41.83	S	S
		10-18-91	USGS	U	49.02	S	S
49V 53	377CHLH	03-21-91	USGS	3	--	F	X
		10-18-91	USGS	3	-40.43	F	G
49V 54	377CHLH	03-21-91	USGS	U	--	F	X
		10-18-91	USGS	U	--	F	X
49V 55	377CHLH	03-22-91	USGS	1.5	61.58	R	S
		10-18-91	USGS	2.1	78.77	R	S
49V 56	377CHLH	03-22-91	USGS	2.4	141.39	R	S
		10-22-91	USGS	N	136.44	R	S
49V 57	377CHLH	03-22-91	USGS	.6	204.80	R	S
		10-22-91	USGS	1.1	243.86	R	S
49V 58	377CHLH	03-21-91	USGS	13.1	39.14	S	S
		10-18-91	USGS	2.3	49.29	R	S
49V 87	227HKGV	03-27-91	USGS	N	14.54	R	S
		10-23-91	USGS	N	26.10	R	S

Table 2. Synoptic water-level measurements for selected wells in Prince William County–Continued

[Depths are measured from land surface datum. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Agency	Recovery period (hours)	Water level (feet)	Site status	Method of measurment
49V 88	377CHLH	10-18-91	USGS	U	113.28	S	S
49V 89	377CHLH	10-22-91	USGS	1.3	118.88	S	S
50T 45C	231BLBF	04-02-91	USGS	W	18.86	S	S
		10-25-91	USGS	W	22.19	S	S
50T 46F	231PLVL	04-02-91	USGS	W	33.61	S	S
		10-25-91	USGS	W	36.30	S	S
50T 47F	231BLBF	04-02-91	USGS	W	11.08	S	S
		10-25-91	USGS	W	14.71	S	S
50T 48F	231BLBF	04-02-91	USGS	W	34.65	S	S
		10-25-91	USGS	W	38.24	S	S
50T 54	231BLBF	03-02-91	IBM	W	37.74	S	T
		10-01-91	IBM	W	48.99	S	T
50T 55	231BLBF	03-01-91	IBM	W	44.54	S	T
		10-02-91	IBM	W	56.49	S	T
50T 56	231BLBF	03-02-91	IBM	W	34.41	S	T
		10-01-91	IBM	W	45.46	S	T
50T 57	231BLBF	03-02-91	IBM	W	28.19	S	T
		10-01-91	IBM	W	31.79	S	T
50T 58	231BLBF	03-01-91	IBM	W	24.56	S	T
		10-02-91	IBM	W	32.06	S	T
50T 59	231BLBF	03-02-91	IBM	W	25.56	S	T
		10-01-91	IBM	W	36.21	S	T
50T 60	231BLBF	03-01-91	IBM	W	53.80	S	T
		10-02-91	IBM	W	62.72	S	T
50T 61	231BLBF	03-02-91	IBM	W	55.75	S	T
		10-01-91	IBM	W	64.12	S	T
50T 62	231BLBF	03-02-91	IBM	W	30.96	S	T
		10-01-91	IBM	W	38.26	S	T
50T 79	231BLBF	04-05-91	USGS	N	37.62	S	S
		10-23-91	USGS	15	43.91	S	S
50T 80	231BLBF	03-21-91	USGS	N	10.71	S	S
		10-18-91	USGS	N	13.88	S	S
50T 81	231BLBF	03-26-91	USGS	N	42.09	R	S
		10-23-91	USGS	N	49.01	S	S
50T 82	231PLVL	03-28-91	USGS	U	52.01	S	S
		10-23-91	USGS	U	85.69	S	S
50T 83	231PLVL	03-28-91	USGS	N	101.96	R	S
		10-22-91	USGS	N	105.82	R	S
5OU 1F	231BLBF	10-24-91	USGS	N	59.01	S	S
50U 97	227DIBS	03-27-91	USGS	N	162.37	R	S
		10-24-91	USGS	N	170.64	R	S
50U110	227CPCK	03-28-91	USGS	N	27.81	R	S
		10-23-91	USGS	N	19.69	R	S
50U119	231BLBF	03-01-91	IBM	W	16.12	S	T
		10-02-91	IBM	W	18.56	S	T
50U120	231BLBF	03-02-91	IBM	W	16.44	S	T
		10-01-91	IBM	W	19.04	S	T

Table 2. Synoptic water-level measurements for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; dashes (--) indicate that water levels were not measured. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Agency	Recovery period (hours)	Water level (feet)	Site status	Method of measurment
50U122	231BLBF	03-20-91	USGS	1.9	69.88	R	S
		10-16-91	USGS	1.4	72.41	R	S
50U123	231BLBF	03-20-91	USGS	2.8	87.98	R	S
		10-17-91	USGS	2.1	111.23	R	S
50U124	231BLBF	03-21-91	USGS	N	23.97	R	S
		10-17-91	USGS	U	22.87	S	S
50U125	227CPCK	03-21-91	USGS	N	49.81	R	S
		10-17-91	USGS	U	45.44	S	S
50U126	227TMMP	03-21-91	USGS	0.4	23.95	R	S
		10-18-91	USGS	.8	40.51	R	S
50U127	227TMMP	04-04-91	USGS	U	1.16	S	S
		10-24-91	USGS	U	4.38	S	S
50U128	227DIBS	03-28-91	USGS	N	35.79	S	S
		10-17-91	USGS	1.2	46.59	R	S
50U132	227TMMP	04-04-91	USGS	U	--	F	X
		10-24-91	USGS	U	-0.58	S	S
50U133	227CPCK	04-04-91	USGS	N	44.25	R	S
		10-21-91	USGS	N	73.51	R	S
50U135	231BLBF	03-21-91	USGS	N	13.83	S	S
		10-18-91	USGS	N	17.83	S	S
50U136	227GCRK	04-01-91	USGS	N	18.80	S	S
		10-24-91	USGS	N	33.51	S	S
50U137	227DIBS	03-28-91	USGS	N	5.29	S	S
		10-17-91	USGS	.02	8.41	S	S
50V 89	227CPCK	03-27-91	USGS	U	26.07	S	S
		10-23-91	USGS	N	38.84	S	S
51S 5	360LGRV	05-14-91	USGS	N	30.43	S	S
		10-16-91	USGS	N	35.84	S	S
51S 7	360LGRV	03-15-91	USGS	W	3.82	S	S
		10-11-91	USGS	W	12.12	S	S
51T 1A	231PLVL	03-26-91	USGS	N	45.57	S	S
		10-23-91	USGS	N	49.65	S	S
51T 3	360LKJK	03-19-91	USGS	U	37.77	S	S
		10-15-91	USGS	U	41.05	S	S
51T 29E	360PLLT	03-18-91	USGS	.3	94.33	R	S
		10-15-91	USGS	1.4	98.23	R	S
51T108	231PLVL	03-02-91	IBM	W	16.03	S	T
		10-01-91	IBM	W	19.00	S	T
51T117	350MTTL	03-18-91	USGS	1	135.02	R	S
		10-15-91	USGS	3.1	101.76	R	S
51T118	350MTTL	03-18-91	USGS	1	79.38	R	S
		10-15-91	USGS	1.7	48.72	R	S
51T119	350MTTL	03-18-91	USGS	1	19.09	R	S
		10-15-91	USGS	1.9	26.41	R	S
51T120	350MTTL	03-18-91	USGS	.6	60.43	R	S
		10-15-91	USGS	1.7	48.62	R	S
51T121	350MTTL	03-19-91	USGS	U	4.90	S	S
		10-15-91	USGS	U	13.61	S	S

Table 2. Synoptic water-level measurements for selected wells in Prince William County–Continued

[Depths are measured from land surface datum. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Agency	Recovery period (hours)	Water level (feet)	Site status	Method of measurment
51T122	360LKJK	03-19-91	USGS	1.5	44.93	R	S
		10-16-91	USGS	1.6	49.53	R	S
51T123	360PCBC	10-15-91	USGS	U	53.85	S	S
51T140	360LKJK	03-19-91	USGS	U	24.15	S	S
		10-18-91	USGS	U	29.84	S	S
51T166	360PLLT	03-19-91	USGS	2	67.68	R	S
		10-15-91	USGS	1.6	78.91	R	S
51T167	360LKJK	04-04-91	USGS	2.8	39.40	S	S
		10-23-91	USGS	6.3	44.83	S	S
51T171	360LKJK	03-19-91	USGS	0.8	55.52	R	S
		10-16-91	USGS	2.2	52.99	R	S
51T172	360PCBC	03-18-91	USGS	U	37.07	S	S
		10-15-91	USGS	1.5	44.32	R	S
51T173	360PCBC	03-18-91	USGS	.9	42.57	R	S
		10-15-91	USGS	4.8	83.60	R	S
51T174	360LKJK	03-19-91	USGS	2.9	63.02	R	S
		10-16-91	USGS	1.2	66.43	R	S
51T175	360PLLT	03-19-91	USGS	3.2	54.21	R	S
		10-16-91	USGS	.8	61.20	R	S
51T176	360LKJK	03-19-91	USGS	U	26.68	S	S
		10-16-91	USGS	U	29.81	S	S
51U 4H	231PLVL	03-26-91	USGS	N	1.72	S	S
		10-23-91	USGS	N	5.25	S	S
51U 7H	231PLVL	03-25-91	USGS	U	63.03	S	S
		10-23-91	USGS	U	65.79	S	S
51U 9G	231PLVL	03-26-91	USGS	U	88.89	S	S
		10-16-91	USGS	U	95.45	S	S
51U 10	231PLVL	03-19-91	USGS	2.1	79.32	R	S
		10-16-91	USGS	1.2	89.18	R	S
51U 11	231PLVL	03-19-91	USGS	2.4	113.58	R	S
		10-16-91	USGS	.5	140.80	R	S
51U 16	231PLVL	03-19-91	USGS	1	131.30	R	S
		10-16-91	USGS	2	144.78	R	S
51U 19D	231BLBF	03-20-91	USGS	1.8	46.80	R	S
		10-17-91	USGS	1.8	56.94	R	S
51U 20G	231PLVL	03-26-91	USGS	U	75.87	S	S
		10-16-91	USGS	U	83.76	S	S
51U 92G	231PLVL	03-26-91	USGS	U	60.98	S	S
		10-24-91	USGS	U	63.24	S	S
51U 94G	231PLVL	03-26-91	USGS	U	77.04	S	S
		10-24-91	USGS	U	84.17	S	S
51U 99G	231BLBF	03-20-91	USGS	1.4	78.89	R	S
		10-17-91	USGS	1.1	81.80	R	S
51U100G	231BLBF	03-20-91	USGS	2.5	42.70	R	S
		10-17-91	USGS	1.6	52.66	R	S
51U101G	231BLBF	03-20-91	USGS	6.4	112.89	R	T
		10-17-91	USGS	4	135.53	R	T

Table 2. Synoptic water-level measurements for selected wells in Prince William County–Continued

[Depths are measured from land surface datum. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Agency	Recovery period (hours)	Water level (feet)	Site status	Method of measurment
51U102D	231BLBF	03-20-91	USGS	2.1	35.25	R	S
		10-17-91	USGS	2.2	46.86	R	S
51U103G	231BLBF	03-25-91	USGS	0.7	93.50	R	C
		10-23-91	USGS	1.2	74.99	R	S
51U104G	231PLVL	04-12-91	USGS	.9	64.60	R	S
		10-23-91	USGS	U	65.78	S	S
51U105G	231BLBF	03-20-91	USGS	5.9	99.57	R	S
		10-17-91	USGS	6.8	103.95	R	S
51U106D	231BLBF	03-20-91	USGS	2.8	41.14	R	S
		10-17-91	USGS	2.1	50.12	R	S
51U111	231BLBF	03-26-91	USGS	U	38.79	S	S
		10-24-91	USGS	U	45.18	S	S
51U112	231BLBF	03-02-91	IBM	W	53.44	S	T
		10-01-91	IBM	W	63.64	S	T
51U113	231BLBF	03-02-91	IBM	W	47.53	S	T
		10-01-91	IBM	W	56.08	S	T
51U114	231BLBF	03-02-91	IBM	W	71.03	S	T
		10-01-91	IBM	W	79.33	S	T
51U115	231BLBF	03-02-91	IBM	W	46.94	S	T
		10-01-91	IBM	W	53.99	S	T
51U116	231BLBF	03-02-91	IBM	W	86.88	S	T
		10-01-91	IBM	W	93.23	S	T
51U117	231BLBF	03-02-91	IBM	W	88.34	S	T
		10-01-91	IBM	W	95.74	S	T
51U118	231BLBF	03-02-91	IBM	W	76.87	S	T
		10-01-91	IBM	W	88.24	S	T
51U120	231BLBF	03-01-91	IBM	W	59.96	S	T
		10-02-91	IBM	W	70.56	S	T
51U121	231BLBF	03-02-91	IBM	W	61.48	S	T
		10-01-91	IBM	W	71.43	S	T
51U122	231BLBF	03-01-91	IBM	W	57.70	S	T
		10-02-91	IBM	W	65.80	S	T
51U123	231BLBF	03-02-91	IBM	W	57.42	S	T
		10-01-91	IBM	W	65.62	S	T
51U124	231BLBF	03-01-91	IBM	W	44.42	S	T
		10-02-91	IBM	W	53.87	S	T
51U125	231BLBF	03-02-91	IBM	W	54.55	S	T
		10-01-91	IBM	W	62.20	S	T
51U126	231BLBF	03-01-91	IBM	W	67.59	S	T
		10-02-91	IBM	W	77.99	S	T
51U127	231BLBF	03-02-91	IBM	W	69.93	S	T
		10-01-91	IBM	W	79.88	S	T
51U129	231BLBF	03-02-91	IBM	W	45.76	S	T
		10-01-91	IBM	W	56.16	S	T
51U130	231BLBF	03-01-91	IBM	W	44.23	S	T
		10-02-91	IBM	W	51.88	S	T
51U131	231BLBF	03-02-91	IBM	W	45.79	S	T
		10-01-91	IBM	W	53.69	S	T

Table 2. Synoptic water-level measurements for selected wells in Prince William County–Continued

[Depths are measured from land surface datum; negative numbers indicate values above land surface; dashes (--) indicate that water levels were not measured. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Agency	Recovery period (hours)	Water level (feet)	Site status	Method of measurment
51U132	231PLVL	03-01-91	IBM	W	67.57	S	T
		10-02-91	IBM	W	74.84	S	T
51U133	231PLVL	03-02-91	IBM	W	72.55	S	T
		10-01-91	IBM	W	78.80	S	T
51U134	231PLVL	03-02-91	IBM	W	53.30	S	T
		10-01-91	IBM	W	62.10	S	T
51U135	231BLBF	03-01-91	IBM	W	73.82	S	T
		10-02-91	IBM	W	85.72	S	T
51U136	231BLBF	03-02-91	IBM	W	65.63	S	T
		10-01-91	IBM	W	75.73	S	T
51U137	231BLBF	03-02-91	IBM	W	111.56	S	T
		10-01-91	IBM	W	113.81	S	T
51U138	231PLVL	03-02-91	IBM	W	19.52	S	T
		10-01-91	IBM	W	25.82	S	T
51U139	231PLVL	03-02-91	IBM	W	66.58	S	T
		10-01-91	IBM	W	73.03	S	T
51U140	231BLBF	03-01-91	IBM	W	69.90	S	T
		10-02-91	IBM	W	78.45	S	T
51U141	231BLBF	03-02-91	IBM	W	27.76	S	T
		10-01-91	IBM	W	35.26	S	T
51U142	231PLVL	03-02-91	IBM	W	46.92	S	T
		10-01-91	IBM	W	53.27	S	T
52S 3	377CPMC	05-14-91	USGS	U	2.50	S	S
		10-16-91	USGS	U	5.04	S	S
52S 4	217PTMC	03-15-91	USGS	W	18.62	S	S
		10-11-91	USGS	W	19.05	S	S
52S 5	217PTMC	03-15-91	USGS	W	17.56	S	S
		10-11-91	USGS	W	17.99	S	S
52S 12	361QNTC	05-22-91	USGS	U	37.86	S	S
		10-17-91	USGS	U	39.28	S	S
52S 14	377CPMC	05-14-91	USGS	N	64.36	S	S
		10-16-91	USGS	N	77.67	R	S
52S 18	360LGRV	05-14-91	USGS	96	25.49	S	S
		10-16-91	USGS	48	30.06	S	S
52S 20	377CPMC	05-14-91	USGS	U	15.20	S	S
		10-16-91	USGS	U	24.86	S	S
52S 21	377CPMC	05-15-91	USGS	U	16.21	S	S
		10-16-91	USGS	U	24.55	S	S
52S 24	361QNTC	05-14-91	USGS	48	67.59	S	S
		10-16-91	USGS	U	68.84	S	S
52S 26	217PTMC	05-14-91	USGS	U	3.87	S	S
		10-16-91	USGS	U	--	D	S
52S 29	360LGRV	05-15-91	USGS	U	-1.43	S	S
		10-16-91	USGS	U	3.18	S	S
52S 46	112CLMB	03-25-91	USGS	U	5.28	S	S
		10-18-91	USGS	U	5.78	S	S
52S 47	217PTMC	05-16-91	USGS	N	113.08	P	S
		10-15-91	USGS	N	102.54	S	S

Table 2. Synoptic water-level measurements for selected wells in Prince William County–Continued

[Depths are measured from land surface datum. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Agency	Recovery period (hours)	Water level (feet)	Site status	Method of measurment
52S 48	217PTMC	05-21-91	USGS	U	23.13	S	S
		10-16-91	USGS	U	23.56	S	S
52S 49	217PTMC	05-16-91	USGS	N	121.20	S	S
		10-22-91	USGS	N	122.04	S	S
52S 50	217PTMC	05-21-91	USGS	8.4	114.50	S	S
		10-17-91	USGS	8.6	114.66	R	S
52S 51	217PTMC	10-25-91	USGS	U	45.42	S	S
52S 52	217PTMC	10-25-91	USGS	N	69.51	S	S
52S 56	217PTMC	05-16-91	USGS	U	14.33	S	S
		10-22-91	USGS	U	14.89	S	S
52S 57	217PTMC	05-21-91	USGS	U	4.05	S	S
		10-15-91	USGS	U	5.74	S	S
52T 67	360OCCQ	05-22-91	USGS	U	54.56	S	S
		10-18-91	USGS	U	57.90	S	S
52T 68	360OCCQ	05-23-91	USGS	U	8.74	S	S
		10-18-91	USGS	U	25.83	S	S
53S 1	217PTMC	05-16-91	USGS	U	2.50	S	S
		10-22-91	USGS	U	3.30	S	S
53T 1	217PTMC	05-21-91	USGS	U	2.05	S	S
		10-15-91	USGS	U	2.39	S	S
53T 2 SOW 029	217PTMC	05-21-91	USGS	W	2.01	S	S
		10-09-91	VWCB	W	2.83	S	S
53T 55	361QNTC	05-21-91	USGS	N	26.08	S	S
		10-15-91	USGS	N	27.29	R	S
53T 57	112CLMB	05-16-91	USGS	U	4.67	S	S
		10-16-91	USGS	U	4.77	S	S

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County

[µS/cm, indicates microsiemens per centimeter at 25° Celsius; °C, indicates degrees Celsius; mm of Hg, indicates millimeters of mercury; mg/L, indicates milligrams per liter; dashes (--) indicate no data. For explanation of geologic unit codes, refer to page 9. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Time	Specific conductance (µS/cm)	Specific conductance, lab (µS/cm)	pH (standard units)	pH, lab (standard units)	Temperature, water (°C)	Barometric pressure (mm of Hg)	Oxygen, dissolved (mg/L as O_2)	Oxygen, dissolved (percent saturation)	Hardness, total (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium percent	Sodium adsorption ratio (SAR)
49T 74	231BLBF	09-05-91	1220	300	313	7.7	7.8	14.0	758	2.6	25	150	40	11	13	16	0.5
49U 51	227MBKQ	07-10-90	1140	300	305	7.6	8.1	17.5	748	0.1	1	140	36	12	11	15	.4
49U 62	227MZCC	08-01-90	1034	260	275	7.6	7.6	15.0	755	5.1	51	130	39	7.0	10	15	.4
49U 68	227WRFL	07-10-90	1432	65	65	6.0	7.2	14.0	740	6.4	64	25	6.6	2.0	3.0	20	.3
49U 69	227WRFL	07-11-90	1005	80	70	5.6	6.5	16.0	750	5.1	53	22	5.5	2.0	3.9	27	.4
49U 72	227CPCK	08-01-90	0925	475	499	7.5	7.6	14.5	755	2.6	26	220	56	19	22	18	.6
49U 73	227CPCK	08-22-91	1003	650	679	7.3	7.5	14.0	759	1.3	13	300	73	27	31	19	.8
49U 74	227MZCC	09-04-91	1100	260	265	7.8	7.8	14.0	756	4.2	41	120	37	6.2	9.1	14	.4
49U 75	227TMMP	08-28-91	1010	1,450	1,520	6.5	6.7	15.0	762	3.5	35	650	150	67	23	7	.4
49V 43	227MDLD	07-11-90	1233	400	430	7.6	8.1	20.0	750	.2	2	170	53	10	23	22	.8
49V 46	227MBKQ	07-11-90	1442	200	208	9.5	9.2	15.5	750	.1	1	5	1.9	0.07	47	95	9
49V 49	377CHLH	08-26-91	1256	35	40	5.9	6.2	13.0	750	8.0	76	10	2.3	1.1	2.2	27	.3
49V 50	377CHLH	08-26-91	1420	35	39	5.7	5.9	10.5	751	6.0	55	10	2.1	1.1	2.2	28	.3
49V 52	377CHLH	08-26-91	1056	70	69	6.4	6.4	13.0	747	4.0	39	15	3.5	1.6	2.3	22	.3
49V 53	377CHLH	08-27-91	1250	100	97	6.8	6.9	11.0	756	7.6	70	39	8.4	4.3	4.1	18	.3
		08-27-91	1415	95	98	6.6	6.8	13.5	755	5.6	54	40	9.4	3.9	3.7	16	.3
49V 55	377CHLH	08-02-90	1250	20	30	5.2	5.8	14.0	751	6.8	67	8	1.7	.81	1.9	31	.3
49V 56	377CHLH	08-02-90	1136	10	15	5.4	5.7	13.5	752	7.6	73	3	.69	.37	1.1	36	.3
49V 57	377CHLH	08-27-91	1025	100	109	6.6	6.7	13.0	741	6.4	62	49	15	2.8	3.1	12	.2
49V 58	377CHLH	08-02-90	0950	20	25	5.2	5.7	14.5	749	5.9	58	5	.93	.54	1.4	35	.3
50T 66	231BLBF	07-12-90	0950	610	613	7.1	7.9	18.0	756	.3	3	270	65	24	33	21	.9

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[mg/L, indicates milligrams per liter; <, indicates less than; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO_3)	Alkalinity, field (mg/L as $CaCO_3$)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Solids, sum of constituents, dissolved (mg/L)	Nitrogen, nitrite dissolved (mg/L as N)	Nitrogen, NO_2+NO_3 dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)	Nitrogen, organic dissolved (mg/L as N)	Nitrogen, kjeldahl dissolved (mg/L as N)	Phosphorus dissolved (mg/L as P)	Phosphorus ortho, dissolved (mg/L as P)
49T 74	0.60	212	174	165	1.9	5.0	0.10	26	203	<0.010	0.079	0.010	--	<0.20	0.030	<0.010
49U 51	.90	198	162	154	4.0	1.4	<.10	21	186	--	.200	.030	0.27	.30	<.010	--
49U 62	1.0	171	140	134	5.4	5.5	<.10	30	184	--	.400	<.010	--	.40	.060	--
49U 68	.60	38	31	29	<1.0	1.7	.20	27	60	--	.300	<.010	--	.30	.050	--
49U 69	.70	20	16	15	<1.0	4.4	.20	22	51	--	2.80	<.010	--	<.20	.020	--
49U 72	.80	284	233	220	25	19	.30	25	310	--	.300	.020	--	<.20	.030	--
49U 73	1.0	261	214	206	130	28	.10	24	445	<.010	.300	<.010	--	<.20	.010	<.010
49U 74	.70	166	136	116	10	2.7	<.10	21	172	<.010	.860	<.010	--	<.20	.030	.030
49U 75	.40	172	141	125	53	370	.10	56	811	<.010	1.40	.010	.39	.40	.010	<.010
49V 43	.60	254	208	192	18	16	.40	23	270	--	<.100	.040	.46	.50	<.010	--
49V 46	.10	--	116	103	3.0	2.4	.10	34	158	--	<.100	.020	.18	.20	<.010	--
49V 49	1.9	16	13	13	1.4	3.0	<.10	12	33	<.010	.280	.050	--	<.20	.140	.100
49V 50	1.8	17	13	12	2.4	2.7	<.10	10	32	<.010	.380	<.010	--	<.20	.080	.050
49V 52	2.0	43	35	28	3.4	2.8	.20	12	58	<.010	.470	.060	--	<.20	.020	.010
49V 53	2.1	66	54	48	1.7	0.60	.10	19	73	.010	<.050	.020	--	<.20	.070	.060
	2.0	52	43	47	2.5	.70	.10	15	63	.010	<.050	<.010	--	<.20	.070	.070
49V 55	1.4	14	12	11	<1.0	1.8	<.10	11	26	--	.200	<.010	--	<.20	<.010	--
49V 56	.80	8	6	4.7	<1.0	1.2	<.10	7.3	15	--	<.100	<.010	--	<.20	.030	--
49V 57	1.3	73	59	53	1.9	.90	<.10	13	75	.010	.240	<.010	--	<.20	.020	.020
49V 58	.80	14	12	10	<1.0	1.8	<.10	9.2	24	--	.100	.020	.18	.20	<.010	--
50T 66	.90	324	266	257	69	12	<.10	29	399	--	.700	.010	1.7	1.7	<.010	--

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[µg/L, indicates micrograms per liter; pCi/L, indicates picocuries per liter; mg/L, indicates milligrams per liter; <, indicates less than. For location of wells, refer to plate 1]

Local well number	Aluminum, dissolved (µg/L as Al)	Barium, dissolved (µg/L as Ba)	Iron, dissolved (µg/L as Fe)	Manganese, dissolved (µg/L as Mn)	Strontium, dissolved (µg/L as Sr)	Radon-222, total (pCi/L)	Radon-222, 2-sigma precision estimate (pCi/L)	Carbon, organic, dissolved (mg/L as C)
49T 74	<10	250	<3	<1	210	1,700	39	0.2
49U 51	<10	360	19	40	1,200	<80	18	1.2
49U 62	10	200	10	6	100	1,600	33	.4
49U 68	<10	14	6	2	29	460	19	.7
49U 69	<10	31	15	3	29	660	21	.3
49U 72	20	460	11	15	1,300	2,900	39	.7
49U 73	<10	280	8	<1	1,300	1,600	34	.4
49U 74	<10	150	3	6	150	1,500	37	.3
49U 75	<10	6	21	2	340	770	29	1.8
49V 43	<10	350	32	95	760	450	19	.6
49V 46	<10	<2	200	4	22	<80	18	.3
49V 49	<10	24	9	2	28	1,300	30	.6
49V 50	<10	25	20	4	22	1,300	31	.5
49V 52	<10	21	9	160	43	1,700	33	.4
49V 53	<10	15	25	3	52	510	25	.3
	<10	29	12	3	81	830	30	.2
49V 55	10	29	4	2	11	1,200	31	.5
49V 56	<10	5	11	9	5	640	28	.4
49V 57	<10	41	5	2	170	1,800	34	.4
49V 58	<10	9	10	1	4	1,300	31	.5
50T 66	<10	77	13	1	3,300	1,100	23	.6

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[µS/cm, indicates microsiemens per centimeter at 25° Celsius; °C, indicates degrees Celsius; mm of Hg, indicates millimeters of mercury; mg/L, indicates milligrams per liter; dashes (--) indicate no data. For explanation of geologic unit codes, refer to page 9. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Time	Specific conductance (µS/cm)	Specific conductance, lab (µS/cm)	pH (standard units)	pH, lab (standard units)	Temperature, water (°C)	Barometric pressure (mm of Hg)	Oxygen, dissolved (mg/L as O_2)	Oxygen, dissolved (percent saturation)	Hardness, total (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium percent	Sodium adsorption ratio (SAR)
50T 68	231PLVL	07-12-90	1207	365	353	7.2	8.3	15.5	756	5.9	60	170	55	7.9	10	11	0.3
50T 69	227TMMP	07-12-90	1435	475	450	7.3	8.1	16.5	754	1.8	19	220	56	19	14	12	.4
50T 79	231BLBF	09-04-91	1340	380	361	7.8	7.9	14.0	757	4.4	43	150	37	15	12	14	.4
50T 80	231BLBF	08-22-91	1448	475	495	7.3	7.4	14.5	762	4.4	43	230	58	20	20	16	.6
50T 81	231BLBF	08-29-91	1135	460	465	7.2	7.5	16.0	764	5.1	52	230	70	12	12	10	.3
50U 86	227CPCK	07-16-90	1223	350	359	7.6	8.3	16.0	755	0.1	1	0	0.07	0.04	86	--	64
50U 97	227DIBS	07-16-90	1350	380	378	8.9	8.9	15.5	757	.5	5	19	7.6	.05	73	89	7
50U106	227GCRK	07-17-90	0950	175	193	8.1	7.9	17.0	758	6.0	62	71	23	3.3	6.4	16	.3
50U122	231BLBF	07-31-90	1355	900	874	7.5	7.5	16.0	756	1.0	10	330	89	24	62	30	2
50U123	231BLBF	08-21-91	1444	1,140	1,180	7.1	7.5	15.5	759	1.2	12	530	150	36	63	21	1
50U124	231BLBF	08-21-91	0958	475	485	7.4	7.7	14.5	756	1.4	14	210	52	20	23	19	.7
50U125	227CPCK	08-01-90	1135	480	504	7.5	7.6	15.0	756	1.2	12	220	53	22	19	16	.6
50U126	227TMMP	08-01-90	1230	390	397	7.7	7.8	14.5	759	4.1	40	180	38	21	12	12	.4
50U128	227DIBS	08-28-91	1445	490	510	7.4	7.6	17.5	761	2.4	25	220	61	15	22	18	.7
50U130	227CPCK	07-17-90	1224	390	367	7.6	7.7	15.0	765	2.4	24	180	49	13	13	14	.4
50U133	227CPCK	09-03-91	1110	330	344	7.7	7.8	14.5	763	5.1	50	160	48	8.6	9.9	12	.3
50U135	231BLBF	08-22-91	1249	440	438	7.3	7.5	16.5	762	1.4	14	200	60	12	18	16	.6
50U136	227GCRK	09-03-91	1405	215	217	7.5	7.8	14.5	760	7.0	69	97	30	5.2	7.5	14	.3
50U137	227DIBS	08-28-91	1245	875	869	7.6	7.6	17.0	762	.4	4	370	120	16	47	22	1
51S 5	360LGRV	08-13-91	1059	25	33	5.4	5.9	13.5	755	6.4	62	10	2.0	1.1	2.7	36	.4

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[mg/L, indicates milligrams per liter; <, indicates less than; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO_3)	Alkalinity, field (mg/L as $CaCO_3$)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Solids, sum of constituents, dissolved (mg/L)	Nitrogen, nitrite dissolved (mg/L as N)	Nitrogen, NO_2+NO_3 dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)	Nitrogen, organic dissolved (mg/L as N)	Nitrogen, kjeldahl dissolved (mg/L as N)	Phosphorus dissolved (mg/L as P)	Phosphorus ortho, dissolved (mg/L as P)
50T 68	0.50	215	176	172	1.1	10	<0.10	29	228	--	1.80	0.010	0.59	0.60	0.030	--
50T 69	.70	282	231	225	8.1	11	<.10	29	281	--	1.00	.020	--	<.20	.020	--
50T 79	.80	150	123	116	25	33	.10	22	227	<0.010	1.80	<.010	--	<.20	.010	0.010
50T 80	.80	278	228	224	20	9.5	.10	29	318	<.010	5.20	<.010	--	.20	<.010	<.010
50T 81	.70	314	257	237	5.9	11	.10	26	297	<.010	0.810	.010	--	<.20	.030	<.010
50U 86	<.10	200	164	157	6.2	18	<.10	20	229	--	<.100	.010	--	<.20	.060	--
50U 97	.20	--	71	66	100	8.9	<.10	60	292	--	<.100	<.010	--	1.1	<.010	--
50U106	.60	86	71	66	<1.0	12	<.10	23	115	--	3.40	.030	.27	.30	.030	--
50U122	.70	274	225	205	250	22	.30	25	615	--	.100	<.010	--	<.20	<.010	--
50U123	1.2	273	223	197	450	32	.20	26	900	<.010	.960	<.010	--	<.20	<.010	<.010
50U124	.70	243	199	202	13	32	.20	30	298	<.010	1.50	<.010	--	.30	.020	<.010
50U125	.60	254	208	209	6.0	34	<.10	29	294	--	1.20	<.010	--	.40	.020	--
50U126	1.2	216	177	168	17	12	<.10	25	241	--	2.00	.010	.39	.40	.010	--
50U128	.50	161	132	129	130	13	.20	27	351	<.010	.200	.020	.18	.20	.020	.040
50U130	.80	230	189	167	11	12	.40	23	239	--	.700	.030	--	<.20	.010	--
50U133	.70	181	148	141	23	17	<.10	24	220	--	--	--	--	--	--	--
50U135	.90	273	223	221	14	7.2	.20	25	273	<.010	.320	<.010	--	<.20	.010	<.010
50U136	.70	120	98	97	3.2	3.6	<.10	26	150	<.010	3.40	.020	.28	.30	.090	.050
50U137	1.0	139	114	105	370	21	.30	21	667	<.010	<.050	.010	--	<.20	<.010	<.010
51S 5	.60	24	20	12	0.90	0.70	.10	15	35	<.010	<.050	<.010	--	<.60	.020	.020

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[µg/L, indicates micrograms per liter; pCi/L, indicates picocuries per liter; mg/L, indicates milligrams per liter; <, indicates less than. For location of wells, refer to plate 1]

Local well number	Aluminum, dissolved (µg/L as Al)	Barium, dissolved (µg/L as Ba)	Iron, dissolved (µg/L as Fe)	Manganese, dissolved (µg/L as Mn)	Strontium, dissolved (µg/L as Sr)	Radon-222, total (pCi/L)	Radon-222, 2-sigma precision estimate (pCi/L)	Carbon, organic, dissolved (mg/L as C)
50T 68	<10	1,000	4	<1	160	2,000	26	0.2
50T 69	<10	420	5	<1	140	1,600	25	.5
50T 79	20	6	6	<1	98	1,100	36	.4
50T 80	<10	110	8	<1	920	1,400	32	.4
50T 81	<10	850	6	<1	240	1,600	33	.6
50U 86	<10	<2	4	<1	<1	1,200	50	.8
50U 97	<10	<2	7	<1	33	120	29	.6
50U106	10	61	39	<1	85	1,000	44	.3
50U122	<10	100	7	23	6,200	1,300	48	.7
50U123	<10	45	8	16	3,700	1,000	31	.8
50U124	<10	730	14	8	380	1,800	34	.6
50U125	10	350	6	<1	260	1,200	43	.6
50U126	<10	<2	7	<1	98	960	28	.6
50U128	<10	97	6	3	730	780	30	.4
50U130	<10	190	3	<1	300	1,000	43	.3
50U133	<10	230	3	<1	89	2,000	46	.4
50U135	<10	130	8	<1	610	1,300	33	.2
50U136	20	23	<3	<1	130	500	31	.4
50U137	<10	24	55	20	1,800	580	29	.3
51S 5	<10	61	39	100	18	5,700	44	.4

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[µS/cm, indicates microsiemens per centimeter at 25° Celsius; °C, indicates degrees Celsius; mm of Hg, indicates millimeters of mercury; mg/L, indicates milligrams per liter; dashes (--) indicate no data. For explanation of geologic unit codes, refer to page 9. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Time	Specific conductance (µS/cm)	Specific conductance, lab (µS/cm)	pH (standard units)	pH, lab (standard units)	Temperature, water (°C)	Barometric pressure (mm of Hg)	Oxygen, dissolved (mg/L as O_2)	Oxygen, dissolved (percent saturation)	Hardness, total (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium percent	Sodium adsorption ratio (SAR)
51T 1A	231PLVL	08-29-91	0935	300	322	6.8	7.0	16.0	763	3.8	39	140	42	8.0	13	17	0.5
51T 29E	360PLLT	07-25-90	1500	100	102	6.2	6.4	15.0	759	7.1	71	38	6.6	5.3	5.4	23	.4
51T117	350MTTL	08-20-91	1030	235	246	7.6	7.7	14.0	751	2.8	27	100	27	8.4	12	20	.5
51T118	350MTTL	07-26-90	0906	260	275	6.8	7.1	15.0	--	8.7	--	130	40	7.9	7.7	11	.3
51T119	350MTTL	08-20-91	1243	180	189	6.5	6.8	15.0	752	3.0	30	78	16	9.2	9.2	20	.5
51T120	350MTTL	07-26-90	1020	180	178	7.2	7.6	14.5	--	7.4	--	71	12	10	7.2	18	.4
51T122	360LKJK	07-25-90	1204	135	135	5.6	5.8	14.5	756	6.8	67	34	11	1.5	11	40	.8
51T134	360PLLT	07-18-90	1201	135	124	6.6	6.8	14.0	760	0	0	45	11	4.3	5.9	21	.4
51T140	360LKJK	07-17-90	1626	80	83	6.3	6.5	15.0	760	4.7	47	25	6.7	1.9	6.6	36	.6
51T147	360LKJK	07-18-90	1000	110	106	6.3	6.4	14.0	762	3.8	37	39	8.8	4.1	6.8	27	.5
51T151	350MTTL	07-18-90	1415	380	354	5.8	6.0	15.0	760	0	0	0	0.09	<0.02	71	--	--
51T159	360OCCQ	07-19-90	1200	110	113	6.0	6.3	14.0	759	6.3	61	35	11	1.9	6.4	28	.5
51T166	360PLLT	07-25-90	1349	95	92	6.1	6.4	15.0	757	5.8	58	30	6.2	3.4	7.8	35	.6
51T167	360LKJK	07-23-90	1140	95	96	6.1	6.3	15.0	753	5.7	57	32	10	1.8	7.7	34	.6
51T168	360OCCQ	08-01-90	1505	360	380	7.1	7.3	14.0	761	5.4	53	180	64	4.5	12	13	.4
51T171	360LKJK	07-26-90	1322	105	109	5.9	6.2	14.0	--	7.7	--	31	10	1.4	8.2	35	.6
51T172	360PCBC	08-20-91	1509	165	179	6.8	7.0	13.0	753	5.6	54	76	21	5.7	7.1	17	.4
51T173	360PCBC	07-26-90	1135	240	244	7.4	7.5	14.0	--	3.6	--	110	32	6.2	8.9	15	.4
51T174	360LKJK	07-25-90	0911	135	132	6.6	6.9	15.0	757	3.6	36	46	8.9	5.8	8.9	29	.6
51T175	360PLLT	07-25-90	1053	300	317	6.9	7.1	16.0	758	2.9	30	140	48	4.1	8.9	12	.3

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[mg/L, indicates milligrams per liter; <, indicates less than; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO_3)	Alkalinity, field (mg/L as $CaCO_3$)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Solids, sum of constituents, dissolved (mg/L)	Nitrogen, nitrite dissolved (mg/L as N)	Nitrogen, NO_2+NO_3 dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)	Nitrogen, organic dissolved (mg/L as N)	Nitrogen, kjeldahl dissolved (mg/L as N)	Phosphorus dissolved (mg/L as P)	Phosphorus ortho, dissolved (mg/L as P)
51T 1A	0.70	205	168	148	7.8	11	0.10	51	240	<0.010	0.800	0.010	--	<0.20	0.220	0.140
51T 29E	.70	55	45	43	<1.0	4.1	<.10	24	74	--	.900	.010	0.49	.50	.040	--
51T117	1.4	150	123	118	11	4.2	.10	22	160	<.010	.065	<.010	--	<.20	<.010	<.010
51T118	.60	190	155	140	6.5	3.6	.50	31	193	--	.400	.020	--	<.20	.050	--
51T119	1.0	104	85	86	7.9	4.7	<.10	27	127	<.010	.130	<.010	--	<.20	.030	.020
51T120	1.1	119	97	85	7.2	2.4	<.10	40	140	--	.300	.020	--	<.20	.050	--
51T122	1.2	36	30	27	16	6.4	<.10	29	97	--	.800	.010	.39	.40	<.010	--
51T134	3.5	75	61	54	5.8	0.70	<.10	37	108	--	<.100	.030	--	<.20	<.010	--
51T140	.90	50	41	39	<1.0	2.2	<.10	40	83	--	<.100	.030	--	<.20	.020	--
51T147	1.1	66	54	52	<1.0	3.1	<.10	35	91	--	<.100	.030	--	<.20	.030	--
51T151	.40	64	53	51	10	54	<.10	26	199	--	5.90	.120	.58	.70	<.010	--
51T159	1.1	46	37	51	<1.0	2.2	<.10	25	71	--	1.20	.020	.28	.30	.030	--
51T166	1.1	54	44	44	<1.0	4.4	<.10	39	88	--	<.100	.010	.29	.30	.030	--
51T167	.20	57	47	43	2.8	2.5	.30	31	85	--	<.100	.020	--	<.20	.020	--
51T168	1.7	225	184	191	2.1	9.2	<.10	29	234	--	.100	.020	.28	.30	.020	--
51T171	1.5	45	37	33	7.4	2.1	<.10	31	93	--	2.10	.030	.27	.30	<.010	--
51T172	1.1	122	100	83	1.5	1.5	<.10	25	124	<.010	.100	<.010	--	<.20	.030	.020
51T173	1.9	137	112	102	17	7.4	.40	23	165	--	.200	.100	--	<.20	<.010	--
51T174	.80	79	64	63	3.8	2.2	<.10	37	106	--	<.100	.020	.18	.20	<.010	--
51T175	2.2	84	69	63	100	2.1	.20	29	236	--	<.100	.010	--	<.20	.010	--

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[µg/L, indicates micrograms per liter; pCi/L, indicates picocuries per liter; mg/L, indicates milligrams per liter; <, indicates less than; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Aluminum, dissolved (µg/L as Al)	Barium, dissolved (µg/L as Ba)	Iron, dissolved (µg/L as Fe)	Manganese, dissolved (µg/L as Mn)	Strontium, dissolved (µg/L as Sr)	Radon-222, total (pCi/L)	Radon-222, 2-sigma precision estimate (pCi/L)	Carbon, organic, dissolved (mg/L as C)
51T 1A	<10	410	110	28	42	1,100	32	0.4
51T 29E	<10	<2	<3	<1	41	2,500	35	.4
51T117	<10	44	10	3	92	1,600	32	.3
51T118	<10	13	4	<1	60	1,400	38	.3
51T119	<10	27	7	110	82	5,000	45	.4
51T120	<10	<2	<3	<1	47	360	34	.3
51T122	<10	29	4	12	51	3,600	40	.4
51T134	<10	44	2,400	120	42	2,400	53	.2
51T140	10	3	37	25	24	2,700	37	.2
51T147	<10	9	50	5	37	3,300	42	.2
51T151	<10	<2	5	<1	1	5,400	46	1.4
51T159	<10	7	8	1	45	6,200	48	.6
51T166	<10	14	10	4	37	2,500	36	.3
51T167	<10	<2	120	6	45	3,400	46	1.0
51T168	10	7	28	300	140	2,400	37	.8
51T171	<10	13	76	78	36	2,300	55	.3
51T172	<10	7	15	2	55	2,100	34	.3
51T173	<10	42	<3	1	66	1,200	36	.5
51T174	<10	5	160	120	46	3,100	41	.3
51T175	<10	52	8	27	260	1,400	31	.3

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[µS/cm, indicates microsiemens per centimeter at 25° Celsius; °C, indicates degrees Celsius; mm of Hg, indicates millimeters of mercury; mg/L, indicates milligrams per liter; dashes (--) indicate no data. For explanation of geologic unit codes, refer to page 9. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Time	Specific conductance (µS/cm)	Specific conductance, lab (µS/cm)	pH (standard units)	pH, lab (standard units)	Temperature, water (°C)	Barometric pressure (mm of Hg)	Oxygen, dissolved (mg/L as O_2)	Oxygen, dissolved (percent saturation)	Hardness, total (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium percent	Sodium adsorption ratio (SAR)
51U 4H	231PLVL	08-29-91	1355	1,500	1,490	7.4	7.4	14.0	762	1.5	14	700	240	25	81	20	1
51U 10	231PLVL	07-26-90	1443	525	517	7.5	7.6	15.5	--	3.9	--	240	77	11	15	12	0.4
51U 11	231PLVL	07-27-90	0900	480	470	7.5	7.3	15.0	757	2.1	--	220	68	13	12	10	.3
51U 16	231PLVL	07-27-90	1030	400	401	7.7	7.2	16.0	761	4.9	--	190	55	12	12	12	.4
51U 19D	231BLBF	08-21-91	1220	875	891	7.3	7.7	16.5	760	2.5	26	380	86	39	52	23	1
51U 97H	231PLVL	07-24-90	1006	770	785	7.6	7.6	18.5	757	1.7	18	390	76	49	18	9	.4
51U 98G	231BLBF	07-30-90	1315	600	589	7.4	7.4	16.0	757	1.0	10	290	76	23	19	13	.5
51U 99G	231BLBF	07-30-90	1431	700	631	7.5	7.5	18.0	757	2.4	26	260	67	22	41	26	1
51U100G	231BLBF	07-31-90	0908	550	548	7.4	7.5	15.5	755	3.4	34	250	57	25	20	15	.6
51U101G	231BLBF	07-31-90	1250	675	661	7.3	7.4	15.0	757	5.5	55	300	71	30	25	15	.6
51U102D	231BLBF	07-31-90	1140	925	889	7.4	7.5	16.0	757	1.2	12	360	84	35	55	25	1
51U103G	231BLBF	07-24-90	1256	1,110	1,120	7.4	7.4	18.0	760	1.1	12	490	140	32	66	23	1
51U104G	231PLVL	07-24-90	1135	1,180	1,160	7.3	7.4	20.0	759	0.4	4	580	170	36	32	11	.6
51U106D	231BLBF	07-31-90	1020	800	765	7.4	7.5	16.5	756	1.3	13	360	82	37	31	16	.7
52S 14	377CPMC	08-13-91	0846	310	329	6.6	7.1	13.5	761	.6	6	140	33	14	13	16	.5
52S 18	360LGRV	08-13-91	1342	240	253	8.4	8.4	14.0	760	1.1	11	53	14	4.3	40	60	2
52S 24	361QNTC	08-19-91	1425	260	258	7.4	7.5	13.5	753	.4	4	120	34	8.6	5.0	8	.2
52S 30	377CPMC	08-19-91	1115	20	35	5.1	5.4	13.5	753	8.6	84	5	0.90	0.71	2.7	44	.5
52S 44	217PTMC	08-12-91	1403	139	130	7.4	7.1	17.5	768	.6	6	34	6.4	4.4	7.4	26	.6
52S 47	217PTMC	08-15-91	1120	20	33	5.5	5.7	14.0	760	6.0	58	8	2.4	.47	1.4	22	.2

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[mg/L, indicates milligrams per liter; <, indicates less than; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO_3)	Alkalinity, field (mg/L as $CaCO_3$)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Solids, sum of constituents, dissolved (mg/L)	Nitrogen, nitrite dissolved (mg/L as N)	Nitrogen, NO_2+NO_3 dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)	Nitrogen, organic dissolved (mg/L as N)	Nitrogen, kjeldahl dissolved (mg/L as N)	Phosphorus dissolved (mg/L as P)	Phosphorus ortho, dissolved (mg/L as P)
51U 4H	3.3	180	147	128	800	13	0.40	25	1,280	<0.010	<0.050	0.030	--	<0.20	0.010	<0.010
51U 10	0.80	197	161	149	96	16	.40	35	354	--	1.30	.030	0.37	.40	.060	--
51U 11	1.1	240	197	181	44	19	.20	22	293	--	1.00	.030	--	<.20	.010	--
51U 16	.70	205	168	153	58	8.5	.60	34	275	--	.500	.020	--	<.20	.050	--
51U 19D	.80	274	225	167	300	20	.20	28	667	<.010	.500	<.010	--	<.20	<.010	<.010
51U 97H	1.2	247	202	145	240	7.2	.10	29	546	--	.700	.020	--	<.20	.030	--
51U 98G	.80	299	245	229	71	19	.20	30	389	--	.600	<.010	--	<.20	<.010	--
51U 99G	.80	285	234	219	110	15	.30	28	431	--	1.20	<.010	--	<.20	<.010	--
51U100G	.80	302	247	238	32	17	.20	29	335	--	1.00	<.010	--	<.20	<.010	--
51U101G	.80	353	290	272	61	24	.30	31	423	--	1.30	<.010	--	<.20	<.010	--
51U102D	.90	293	240	229	260	18	.30	29	631	--	.600	<.010	--	.30	<.010	--
51U103G	1.2	240	197	181	420	20	<.10	27	830	--	.400	.020	.28	.30	<.010	--
51U104G	1.6	235	193	189	470	10	<.10	26	865	--	.200	.020	--	<.20	<.010	--
51U106D	.80	267	219	201	190	26	.20	30	533	--	.800	<.010	--	<.20	<.010	--
52S 14	5.3	140	115	108	47	12	.10	34	228	<.010	<.050	<.010	--	.60	.020	.020
52S 18	3.6	--	121	111	14	5.2	.60	19	174	<.010	<.050	.150	.05	.20	.160	.010
52S 24	5.9	174	143	132	4.5	2.9	.10	50	198	<.010	<.050	.020	--	<.20	.120	.110
52S 30	1.9	36	29	6.0	2.0	4.1	<.10	16	48	<.010	.390	<.010	--	.20	<.010	.010
52S 44	10	72	59	57	5.5	0.70	.20	34	110	<.010	<.050	.150	.05	.20	<.160	<.010
52S 47	2.4	16	13	9.0	0.60	3.0	.10	36	56	<.010	.160	<.010	--	.60	.300	.310

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[µg/L, indicates micrograms per liter; pCi/L, indicates picocuries per liter; mg/L, indicates milligrams per liter; <, indicates less than; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Aluminum, dissolved (µg/L as Al)	Barium, dissolved (µg/L as Ba)	Iron, dissolved (µg/L as Fe)	Manganese, dissolved (µg/L as Mn)	Strontium, dissolved (µg/L as Sr)	Radon-222, total (pCi/L)	Radon-222, 2-sigma precision estimate (pCi/L)	Carbon, organic, dissolved (mg/L as C)
51U 4H	<10	10	490	92	2,300	170	26	0.2
51U 10	<10	200	3	<1	92	890	35	.5
51U 11	<10	200	4	1	180	1,400	32	.5
51U 16	<10	280	7	<1	91	830	31	.3
51U 19D	<10	70	7	8	3,900	2,000	34	.6
51U 97H	<10	87	9	1	620	1,000	30	.5
51U 98G	<10	110	4	<1	570	1,600	32	.8
51U 99G	10	300	4	3	1,300	2,600	35	.6
51U100G	<10	160	<3	<1	970	2,500	42	.8
51U101G	<10	130	6	<1	660	1,400	36	.7
51U102D	20	97	47	1	2,200	2,500	39	.7
51U103G	<10	69	11	34	4,000	2,100	47	.5
51U104G	<10	36	36	25	2,300	800	29	.5
51U106D	10	160	8	<1	1,700	2,300	38	1.0
52S 14	<20	61	39	100	160	830	30	.3
52S 18	<10	9	7	5	160	2,900	35	.6
52S 24	<10	120	520	200	160	2,500	35	.3
52S 30	20	43	25	9	8	300	25	.4
52S 44	<10	52	5,800	150	64	480	31	.4
52S 47	<10	8	8	3	9	380	30	.5

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[µS/cm, indicates microsiemens per centimeter at 25° Celsius; °C, indicates degrees Celsius; mm of Hg, indicates millimeters of mercury; mg/L, indicates milligrams per liter; dashes (--) indicate no data. For explanation of geologic unit codes, refer to page 9. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Time	Specific conductance (µS/cm)	Specific conductance, lab (µS/cm)	pH (standard units)	pH, lab (standard units)	Temperature, water (°C)	Barometric pressure (mm of Hg)	Oxygen, dissolved (mg/L as O_2)	Oxygen, dissolved (percent saturation)	Hardness, total (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L as Ca)	Magnesium, dissolved (mg/L as Mg)	Sodium, dissolved (mg/L as Na)	Sodium percent	Sodium adsorption ratio (SAR)
52S 49	217PTMC	08-14-91	1428	130	125	5.8	6.5	15.5	761	0.4	4	48	8.6	6.3	3.4	12	0.2
52S 51	217PTMC	08-15-91	1507	185	177	5.1	5.2	24.0	762	.4	5	34	7.5	3.6	14	43	1
52S 52	217PTMC	08-21-91	1721	200	202	7.1	6.9	15.5	762	.4	4	4	0.80	0.53	38	91	8
52T 44	360OCCQ	07-19-90	0950	135	134	6.2	6.8	15.0	760	3.6	36	34	11	1.5	8.3	33	.6
52T 52	360OCCQ	07-19-90	1418	385	373	7.1	7.3	18.0	765	4.9	52	170	48	12	11	12	.4
52T 66	361QNTC	09-05-91	0920	185	169	6.5	6.5	19.0	759	.5	5	72	17	7.2	1.8	5	.1
53T 56	377CPMC	08-14-91	1059	335	341	6.8	7.3	18.0	765	.5	6	90	13	14	34	43	2

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[mg/L, indicates milligrams per liter; <, indicates less than; dashes (--) indicate no data. For location of wells, refer to plate 1]

Local well number	Potassium, dissolved (mg/L as K)	Bicarbonate (mg/L as HCO_3)	Alkalinity, field (mg/L as $CaCO_3$)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L as SO_4)	Chloride, dissolved (mg/L as Cl)	Fluoride, dissolved (mg/L as F)	Silica, dissolved (mg/L as SiO_2)	Solids, sum of constituents, dissolved (mg/L)	Nitrogen, nitrite dissolved (mg/L as N)	Nitrogen, NO_2+NO_3 dissolved (mg/L as N)	Nitrogen, ammonia dissolved (mg/L as N)	Nitrogen, organic dissolved (mg/L as N)	Nitrogen, kjeldahl dissolved (mg/L as N)	Phosphorus dissolved (mg/L as P)	Phosphorus ortho, dissolved (mg/L as P)
52S 49	5.6	78	64	56	3.7	3.2	0.20	49	122	<0.010	<0.050	0.050	--	<0.20	0.490	0.430
52S 51	4.9	43	35	23	6.7	30	<.10	40	132	<.010	<.050	<.010	--	<.20	.020	.010
52S 52	3.4	92	75	67	12	14	.30	31	148	<.010	<.050	.080	--	<.20	.630	.630
52T 44	1.9	80	65	51	3.9	2.3	<.10	36	104	--	<.100	.020	--	<.20	.030	--
52T 52	3.2	207	170	172	22	3.8	.30	44	247	--	<.100	.030	0.27	.30	<.010	--
52T 66	1.0	119	98	66	11	2.3	.20	13	126	.020	<.050	.050	--	<.20	.530	.120
53T 56	6.3	168	138	126	3.4	31	.20	22	209	<.010	<.050	.190	.11	.30	.050	.050

Table 3. Major dissolved constituent and nutrient analyses of ground water in Prince William County–Continued

[µg/L, indicates micrograms per liter; pCi/L, indicates picocuries per liter; mg/L, indicates milligrams per liter; <, indicates less than. For location of wells, refer to plate 1]

Local well number	Aluminum, dissolved (µg/L as Al)	Barium, dissolved (µg/L as Ba)	Iron, dissolved (µg/L as Fe)	Manganese, dissolved (µg/L as Mn)	Strontium, dissolved (µg/L as Sr)	Radon-222, total (pCi/L)	Radon-222, 2-sigma precision estimate (pCi/L)	Carbon, organic, dissolved (mg/L as C)
52S 49	<10	59	2,200	110	77	350	26	0.4
52S 51	<10	45	4,300	130	50	260	30	1.9
52S 52	20	5	440	24	7	340	28	.5
52T 44	<10	8	8	28	43	5,100	44	.4
52T 52	<10	210	7	6	170	2,200	35	.4
52T 66	<10	21	13,000	420	20	2,400	42	.3
53T 56	<10	79	1,900	120	110	340	28	1.3

Table 4. Trace-metal analyses of ground water in Prince William County

[µg/L, indicates micrograms per liter; dashes (--) indicate no data. For explanation of geologic unit codes, refer to page 9. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Time	Arsenic, dissolved (µg/L as As)	Beryllium, dissolved (µg/L as Be)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Mercury, dissolved (µg/L as Hg)	Molybdenum dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Silver, dissolved (µg/L as Ag)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
49T 74	231BLBF	09-05-91	1220	3	<0.5	<1.0	<5	<3	<10	<10	15	<0.1	<10	<10	<1.0	8	7
49U 51	227MBKQ	07-10-90	1140	--	<.5	<1.0	<5	<3	<10	<10	5	<.1	<10	<10	<1.0	<6	3
49U 62	227MZCC	08-01-90	1034	--	<.5	<1.0	<5	<3	<10	<10	17	<.1	<10	<10	2.0	<6	18
49U 68	227WRFL	07-10-90	1432	--	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	4
49U 69	227WRFL	07-11-90	1005	--	<.5	<1.0	<5	<3	250	<10	<4	<.1	<10	<10	<1.0	<6	10
49U 72	227CPCK	08-01-90	0925	--	<.5	<1.0	<5	<3	<10	<10	23	<.1	<10	<10	2.0	19	72
49U 73	227CPCK	08-22-91	1003	1	.8	<1.0	<5	<3	<10	<10	32	<.1	<10	<10	2.0	11	67
49U 74	227MZCC	09-04-91	1100	<1	<.5	<1.0	<5	<3	<10	<10	11	<.1	<10	<10	<1.0	<6	<3
49U 75	227TMMP	08-28-91	1010	<1	.5	<1.0	<5	<3	60	10	9	<.1	<10	10	<1.0	10	45
49V 43	227MDLD	07-11-90	1233	--	<.5	<1.0	<5	<3	<10	<10	35	<.1	<10	<10	<1.0	<6	44
49V 46	227MBKQ	07-11-90	1442	--	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	<3
49V 49	377CHLH	08-26-91	1256	<1	1	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	86
49V 50	377CHLH	08-26-91	1420	<1	1	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	430
49V 52	377CHLH	08-26-91	1056	<1	.7	<1.0	<5	3	10	<10	<4	<.1	<10	<10	<1.0	<6	7,100
49V 53	377CHLH	08-27-91	1250	<1	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	54
		08-27-91	1415	<1	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	14
49V 55	377CHLH	08-02-90	1250	--	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	1.0	<6	8
49V 56	377CHLH	08-02-90	1136	--	.6	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	10
49V 57	377CHLH	08-27-91	1025	<1	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	36
49V 58	377CHLH	08-02-90	0950	--	<.5	1.0	<5	<3	10	<10	<4	<.1	<10	<10	<1.0	<6	2,300
50T 66	231BLBF	07-12-90	0950	--	<.5	1.0	<5	<3	10	<10	39	<.1	<10	<10	<1.0	<6	6
50T 68	231PLVL	07-12-90	1207	--	<.5	<1.0	<5	<3	<10	<10	15	<.1	<10	<10	<1.0	18	4
50T 69	227TMMP	07-12-90	1435	--	<.5	<1.0	<5	<3	<10	<10	18	<.1	<10	<10	<1.0	<6	4
50T 79	231BLBF	09-04-91	1340	<1	<.5	<1.0	<5	<3	<10	<10	8	<.1	<10	<10	<1.0	<6	8
50T 80	231BLBF	08-22-91	1448	2	.8	<1.0	<5	<3	20	<10	27	<.1	<10	<10	<1.0	24	9
50T 81	231BLBF	08-29-91	1135	<1	<.5	1.0	<5	<3	<10	<10	19	<.1	<10	<10	<1.0	18	450

Table 4. Trace-metal analyses of ground water in Prince William County–Continued

[µg/L, indicates micrograms per liter; dashes (--) indicate no data. For explanation of geologic unit codes, refer to page 9. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Time	Arsenic, dissolved (µg/L as As)	Beryllium, dissolved (µg/L as Be)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Mercury, dissolved (µg/L as Hg)	Molybdenum dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Silver, dissolved (µg/L as Ag)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
50U 86	227CPCK	07-16-90	1223	--	<0.5	1.0	<5	<3	<10	<10	<4	<0.1	<10	<10	<1.0	<6	<3
50U 97	227DIBS	07-16-90	1350	--	<.5	1.0	<5	<3	<10	<10	11	<.1	<10	<10	<1.0	<6	4
50U106	227GCRK	07-17-90	0950	--	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	1.0	<6	26
50U122	231BLBF	07-31-90	1355	--	<.5	1.0	<5	<3	<10	<10	42	<.1	10	<10	<1.0	<6	<3
50U123	231BLBF	08-21-91	1444	2	.6	<1.0	<5	<3	<10	<10	45	<.1	20	<10	<1.0	6	7
50U124	231BLBF	08-21-91	0958	<1	.6	<1.0	<5	<3	<10	<10	25	<.1	<10	<10	<1.0	13	38
50U125	227CPCK	08-01-90	1135	--	<.5	<1.0	<5	<3	<10	<10	20	<.1	<10	<10	<1.0	9	6
50U126	227TMMP	08-01-90	1230	--	<.5	<1.0	<5	<3	<10	<10	12	<.1	<10	<10	<1.0	8	18
50U128	227DIBS	08-28-91	1445	2	<.5	<1.0	<5	<3	10	10	17	<.1	<10	<10	<1.0	<6	1,600
50U130	227CPCK	07-17-90	1224	--	<.5	<1.0	<5	<3	<10	<10	14	<.1	<10	<10	<1.0	9	<3
50U133	227CPCK	09-03-91	1110	1	<.5	3.0	<5	<3	<10	<10	8	<.1	10	<10	<1.0	<6	87
50U135	231BLBF	08-22-91	1249	4	.8	<1.0	<5	<3	<10	<10	24	<.1	<10	<10	3.0	<6	270
50U136	227GCRK	09-03-91	1405	1	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	12	7
50U137	227DIBS	08-28-91	1245	2	<.5	<1.0	<5	<3	<10	10	41	<.1	<10	<10	<1.0	<6	86
51S 5	360LGRV	08-13-91	1059	<1	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	2.0	<6	33
51T 1A	231PLVL	08-29-91	0935	<1	<.5	<1.0	<5	<3	40	<10	7	<.1	<10	<10	<1.0	<6	1,300
51T 29E	360PLLT	07-25-90	1500	--	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	7
51T117	350MTTL	08-20-91	1030	<1	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	83
51T118	350MTTL	07-26-90	0906	--	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	39
51T119	350MTTL	08-20-91	1243	<1	.6	<1.0	<5	<3	20	<10	<4	<.1	<10	<10	<1.0	<6	47
51T120	350MTTL	07-26-90	1020	--	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	1.0	<6	10
51T122	360LKJK	07-25-90	1204	--	.8	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	5
51T134	360PLLT	07-18-90	1201	--	<.5	1.0	<5	<3	<10	<10	10	<.1	<10	<10	<1.0	<6	<3
51T140	360LKJK	07-17-90	1626	--	<.5	2.0	<5	<3	<10	<10	4	<.1	<10	<10	<1.0	<6	40
51T147	360LKJK	07-18-90	1000	--	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	4

Table 4. Trace-metal analyses of ground water in Prince William County–Continued

[µg/L, indicates micrograms per liter; dashes (--) indicate no data. For explanation of geologic unit codes, refer to page 9. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Time	Arsenic, dissolved (µg/L as As)	Beryllium, dissolved (µg/L as Be)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Mercury, dissolved (µg/L as Hg)	Molybdenum dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Silver, dissolved (µg/L as Ag)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
51T151	350MTTL	07-18-90	1415	--	<0.5	2.0	<5	<3	<10	<10	<4	<0.1	<10	<10	<1.0	<6	<3
51T159	360OCCQ	07-19-90	1200	--	.6	<1.0	<5	<3	<10	<10	5	--	<10	<10	<1.0	<6	<3
51T166	360PLLT	07-25-90	1349	--	<.5	<1.0	<5	<3	10	<10	<4	<.1	<10	<10	<1.0	<6	19
51T167	360LKJK	07-23-90	1140	--	<.5	<1.0	<5	<3	20	<10	<4	.1	<10	<10	<1.0	<6	4
51T168	360OCCQ	08-01-90	1505	--	<.5	<1.0	<5	<3	<10	<10	9	<.1	<10	<10	2.0	<6	9
51T171	360LKJK	07-26-90	1322	--	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	15
51T172	360PCBC	08-20-91	1509	<1	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	90
51T173	360PCBC	07-26-90	1135	--	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	71
51T174	360LKJK	07-25-90	0911	--	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	1.0	<6	14
51T175	360PLLT	07-25-90	1053	--	<.5	<1.0	<5	<3	<10	<10	8	<.1	<10	<10	<1.0	<6	14
51U 4H	231PLVL	08-29-91	1355	<1	<.5	<1.0	<5	<3	<10	<10	34	<.1	<10	<10	2.0	<6	120
51U 10	231PLVL	07-26-90	1443	--	<.5	1.0	<5	<3	<10	<10	17	<.1	<10	<10	<1.0	8	11
51U 11	231PLVL	07-27-90	0900	--	<.5	<1.0	<5	<3	<10	<10	25	<.1	<10	<10	<1.0	16	<3
51U 16	231PLVL	07-27-90	1030	--	<.5	<1.0	<5	<3	<10	<10	15	.1	<10	<10	<1.0	15	4
51U 19D	231BLBF	08-21-91	1220	5	.6	<1.0	<5	<3	<10	<10	37	<.1	20	10	<1.0	24	13
51U 97H	231PLVL	07-24-90	1006	--	<.5	<1.0	<5	<3	<10	<10	19	.1	<10	<10	<1.0	27	<3
51U 98G	231BLBF	07-30-90	1315	--	.8	1.0	<5	<3	<10	<10	24	<.1	<10	<10	<1.0	24	<3
51U 99G	231BLBF	07-30-90	1431	--	.9	<1.0	<5	<3	<10	<10	34	<.1	<10	<10	<1.0	22	4
51U100G	231BLBF	07-31-90	0908	--	<.5	<1.0	<5	<3	<10	<10	25	<.1	<10	<10	<1.0	23	<3
51U101G	231BLBF	07-31-90	1250	--	<.5	<1.0	<5	<3	<10	<10	26	<.1	<10	<10	1.0	19	9
51U102D	231BLBF	07-31-90	1140	--	<.5	2.0	<5	<3	<10	<10	40	<.1	10	<10	<1.0	19	<3
51U103G	231BLBF	07-24-90	1256	--	<.5	<1.0	<5	<3	<10	<10	58	<.1	10	<10	<1.0	33	4
51U104G	231PLVL	07-24-90	1135	--	<.5	1.0	<5	<3	<10	<10	40	.1	<10	<10	<1.0	15	<3
51U106D	231BLBF	07-31-90	1020	--	<.5	1.0	<5	<3	<10	<10	31	<.1	<10	<10	1.0	27	<3
52S 14	377CPMC	08-13-91	0846	<1	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	2.0	<6	32

Table 4. Trace-metal analyses of ground water in Prince William County–Continued

[µg/L, indicates micrograms per liter; dashes (--) indicate no data. For explanation of geologic unit codes, refer to page 9. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Time	Arsenic, dissolved (µg/L as As)	Beryllium, dissolved (µg/L as Be)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Cobalt, dissolved (µg/L as Co)	Copper, dissolved (µg/L as Cu)	Lead, dissolved (µg/L as Pb)	Lithium, dissolved (µg/L as Li)	Mercury, dissolved (µg/L as Hg)	Molybdenum dissolved (µg/L as Mo)	Nickel, dissolved (µg/L as Ni)	Silver, dissolved (µg/L as Ag)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
52S 18	360LGRV	08-13-91	1342	<1	1	<1.0	<5	<3	<10	<10	8	<0.1	<10	10	2.0	<6	11
52S 24	361QNTC	08-19-91	1425	<1	<.5	<1.0	<5	<3	<10	<10	11	<.1	<10	<10	<1.0	<6	43
52S 30	377CPMC	08-19-91	1115	<1	<.5	<1.0	<5	<3	10	<10	<4	<.1	<10	<10	<1.0	<6	28
52S 44	217PTMC	08-12-91	1403	<1	<.5	2.0	<5	<3	<10	<10	6	<.1	<10	<10	2.0	<6	4
52S 47	217PTMC	08-15-91	1120	<1	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	8
52S 49	217PTMC	08-14-91	1428	<1	<.5	<1.0	<5	<3	<10	<10	8	<.1	<10	<10	<1.0	<6	35
52S 51	217PTMC	08-15-91	1507	<1	.6	<1.0	<5	<3	<10	<10	9	<.1	<10	<10	<1.0	<6	27
52S 52	217PTMC	08-21-91	1721	<1	<.5	<1.0	<5	<3	<10	<10	<4	<.1	<10	<10	<1.0	<6	130
52T 44	360OCCQ	07-19-90	0950	--	<.5	<1.0	<5	<3	<10	<10	6	<.1	<10	<10	<1.0	<6	<3
52T 52	360OCCQ	07-19-90	1418	--	<.5	<1.0	<5	<3	10	<10	15	<.1	<10	<10	<1.0	<6	8
52T 66	361QNTC	09-05-91	0920	2	.7	3.0	<5	<3	<10	<10	6	<.1	<10	<10	<1.0	<6	230
53T 56	377CPMC	08-14-91	1059	<1	<.5	<1.0	<5	<3	<10	<10	6	<.1	<10	<10	<1.0	<6	110

Table 5. Environmental isotope analyses of ground water in Prince William County

[pCi/L, picocuries per liter; TU, tritium units; dashes (--) indicate no data. H-2/H-1 and O-18/O-16 ratios are reported relative to Vienna Standard Mean Ocean Water (VSMOW). For explanation of geologic unit codes, refer to page 9. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Time	Tritium, total (pCi/L)	Tritium, 2 sigma precision estimate (pCi/L)	Tritium, total (TU)	H-2/H-1 stable isotope ratio (per mil)	O-18/O-16 stable isotope ratio (per mil)
49T 74	231BLBF	09-05-91	1220	-0.3	1.9	-0.1	-44	-7.4
49U 73	227CPCK	08-22-91	1003	2.2	3.2	.7	-42	-7.25
49U 74	227MZCC	09-04-91	1100	6.4	2.6	2	-46.5	-7.7
49U 75	227TMMP	08-28-91	1010	65	5.8	20.2	-45	-7.35
49V 49	377CHLH	08-26-91	1256	59	4.5	18.5	-47.5	-8.05
49V 50	377CHLH	08-26-91	1420	63	4.4	19.6	-46.5	-8.05
49V 52	377CHLH	08-26-91	1056	51	4.4	16.1	-48	-8.15
49V 53	377CHLH	08-27-91	1250	8.6	2.6	2.7	-47.5	-8
		08-27-91	1415	14	2.6	4.3	-48	-7.95
49V 55	377CHLH	02-04-91	1344	45	4	14.2	-47.5	-8.05
49V 56	377CHLH	02-04-91	1252	46	3	14.4	-49.5	-8.15
49V 57	377CHLH	08-27-91	1025	44	4.4	13.9	-48.5	-8.15
49V 58	377CHLH	02-04-91	1105	21	2	6.6	-49	-8.1
50T 79	231BLBF	09-04-91	1340	60	4.4	18.9	-43	-7.4
50T 80	231BLBF	08-22-91	1448	3.8	1.9	1.2	-43	-7.2
50T 81	231BLBF	08-29-91	1135	17	2.6	5.3	-43.5	-7.45
50U122	231BLBF	09-11-91	1240	33	3.8	10.2	-42.5	-7.15
50U123	231BLBF	08-21-91	1444	27	3.2	8.3	-41.5	-7.15
50U124	231BLBF	08-21-91	0958	15	2.6	4.6	-42.5	-7.25
50U128	227DIBS	08-28-91	1445	5.1	1.9	1.6	-44.5	-7.45
50U133	227CPCK	09-03-91	1110	22	2.6	7	-45	-7.6
50U135	231BLBF	08-22-91	1249	3.2	1.9	1	-44	-7.3
50U136	227GCRK	09-03-91	1405	64	4.4	19.9	-44.5	-7.75
50U137	227DIBS	08-28-91	1245	0	1.9	0	-41	-7.15
51S 5	360LGRV	08-13-91	1059	52	4.4	16.4	-47	-7.8
51T 1A	231PLVL	08-29-91	0935	22	2.6	6.9	-44	-7.35
51T 29E	360PLLT	02-05-91	1645	77	6	23.9	-45.5	-7.55
51T117	350MTTL	08-20-91	1030	25	2.6	7.8	-44	-7.5
51T118	350MTTL	02-05-91	1421	57	5	17.8	-45	-7.65
51T119	350MTTL	08-20-91	1243	45	3.8	14	-44.5	-7.45
51T167	360LKJK	09-11-91	1500	72	5.1	22.6	--	--
51T172	360PCBC	08-20-91	1509	64	5.1	20.1	-45	-7.7
51T173	360PCBC	02-05-91	1516	58	5	18.1	-42.5	-7.3
51U 4H	231PLVL	08-29-91	1355	-.6	1.9	-.2	-43	-7.40
51U 10	231PLVL	02-04-91	1545	35	3	10.8	-45.5	-7.35
51U 11	231PLVL	09-10-91	1130	28	3.2	8.8	-43.5	-7.45
51U 16	231PLVL	09-10-91	0955	6.4	2.6	2	-42	-7.4
51U 19D	231BLBF	08-21-91	1220	17	2.6	5.4	-42.5	-7.15
51U 97H	231PLVL	02-05-91	0943	17	2	5.3	-44	-7.15
51U 98G	231BLBF	09-09-91	1345	32	3.2	10.1	-40.5	-7

Table 5. Environmental isotope analyses of ground water in Prince William County–Continued

[pCi/L, picocuries per liter; TU, tritium units; dashes (--) indicate no data. H-2/H-1 and O-18/O-16 ratios are reported relative to Vienna Standard Mean Ocean Water (VSMOW). For explanation of geologic unit codes, refer to page 9. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Time	Tritium, total (pCi/L)	Tritium, 2 sigma precision estimate (pCi/L)	Tritium, total (TU)	H-2/H-1 stable isotope ratio (per mil)	O-18/O-16 stable isotope ratio (per mil)
51U 99G	231BLBF	09-09-91	1120	14	2.6	4.3	-41.5	-7.25
51U100G	231BLBF	09-10-91	1425	28	3.2	8.8	-41	-7
51U101G	231BLBF	09-10-91	1305	23	2.6	7.1	-42.5	-7.1
51U102D	231BLBF	09-11-91	1110	30	3.2	9.4	-40.5	-6.85
51U103G	231BLBF	02-05-91	1142	19	2	5.9	-43	-7.15
51U104G	231PLVL	02-05-91	1035	22	3	7	-42.5	-7.2
51U106D	231BLBF	09-11-91	0945	34	3.2	10.5	-40.5	-6.8
52S 14	377CPMC	08-13-91	0846	38	3.8	11.8	-42	-7.35
52S 18	360LGRV	08-13-91	1342	11	2.6	3.5	-40.5	-7
52S 24	361QNTC	08-19-91	1425	2.9	1.9	0.9	-39.5	-7
52S 30	377CPMC	08-19-91	1115	68	5.8	21.1	-44	-7.45
52S 44	217PTMC	08-12-91	1403	2.6	2.6	.8	-41	-7.15
52S 47	217PTMC	08-15-91	1120	16	2.6	5.1	-43.5	-7.35
52S 49	217PTMC	08-14-91	1428	0.6	2.6	.2	-40	-6.9
52S 51	217PTMC	08-15-91	1507	75	5.1	23.3	-39.5	-6.45
52S 52	217PTMC	08-21-91	1721	.6	2.6	.2	-46	-7.7
52T 66	361QNTC	09-05-91	0920	44	3.8	13.7	-43	-7.5
53T 56	377CPMC	08-14-91	1059	19	2.6	6	-41	-6.9

Table 6. Dissolved gas analyses of ground water in Prince William County

[mg/L, indicates milligrams per liter. For explanation of geologic unit codes, refer to page 9. For location of wells, refer to plate 1]

Local well number	Geologic unit	Date	Argon (mg/L as Ar)	Carbon dioxide (mg/L as (CO_2))	Oxygen (mg/L as (O_2))	Nitrogen (mg/L as (N_2))	Nitrous oxide (mg/L as (N_2O))	Hydrogen sulfide (mg/L as (H_2S))	Methane (mg/L as (CH_4))
49T 74	231BLBF	09-05-91	0.7594	6.04	2.84	22.6	0.0	0.0	0.0
49U 73	227CPCK	08-22-91	.7298	12.6	0.58	19.9	.0	.0	.0
49U 74	227MZCC	09-04-91	.7098	3.96	3.91	20.0	.0	.0	.0
49V 55	377CHLH	02-04-91	.7522	51.4	8.50	21.6	.0	.0	.0
49V 56	377CHLH	02-04-91	.6654	16.3	9.13	18.1	.0	.0	.0
49V 58	377CHLH	02-04-91	.8069	55.4	8.63	23.1	.0	.0	.0
50U133	227CPCK	09-03-91	.7998	4.84	4.93	23.5	.0	.0	.0
51T 29E	360PLLT	02-05-91	.6972	44	6.68	19.1	.0	.0	.0
		02-05-91	.6856	46.5	6.75	18.5	.0	.0	.0
51T173	360PCBC	02-05-91	.7291	6.37	2.88	20.1	.0	.0	.0
51U 10	231PLVL	02-04-91	.7291	8.5	3.21	19.8	.0	.0	.0
51U 97H	231PLVL	02-05-91	.7709	8.02	2.66	22.7	.0	.0	.0
51U103G	231BLBF	02-05-91	1.0095	12.7	5.15	35.3	.0	.0	.0
51U104G	231PLVL	02-05-91	.7141	13.3	.44	21.1	.0	.0	.0
52S 18	360LGRV	08-13-91	.7874	0.9	1.55	20.3	.0	.0	.0
52S 47	217PTMC	08-15-91	.7334	48.8	6.26	19.3	.0	.0	.0
52S 52	217PTMC	08-21-91	.8024	7.37	.02	21.9	.0	.0	.0
52T 66	361QNTC	09-05-91	.7455	37.7	.04	20.9	.0	.0	.0
53T 56	377CPMC	08-14-91	.8185	11.3	.07	23.0	.0	.0	2.26