Water-Data Report 2013

381002078094201 Local number 45P 1 SOW 030

Piedmont and Blue Ridge crystalline-rock aquifers
Evington Group

Orange County, VA

LOCATION.--Lat 38°10′02″, long 78°09′42″ referenced to North American Datum of 1927, Orange County, VA, Hydrologic Unit 02080106, off U.S. Highway 15, 2.3 mi north of Gordonsville.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 98 ft. Upper casing diameter 6.00 in; top of first opening undefined, bottom of last opening undefined. Drilled observation water well, cased to 11 ft, open hole from 11 to 98 ft.

DATUM.--Land-surface datum is 480 ft above National Geodetic Vertical Datum of 1929. Measuring point: TOP OF SHELF, 2.10 ft above land-surface datum, Feb. 8, 2008, to present.

PERIOD OF RECORD.--February 1965 to current year.

GAGE.--Electronic data logger and pressure transducer, 15-minute record interval. Oct. 31, 1995 to Mar. 10, 2004, occasional measurement with chalked taped by Virginia Department of Environmental Quality - Water Division personnel. Prior to Oct. 31, 1995, continuous strip-chart recorder.

REMARKS.--Well is located in Phyllite of Evington Group of Precambrian or Cambrian age. Records provided by the Virginia Department of Environmental Quality - Water Division. Water level affected by magnitude 5.8 Mineral, VA earthquake on Aug. 23, 2011.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 11.83 ft below land-surface datum, Apr. 10, 1973; lowest recorded, 38.97 ft below land-surface datum, Aug. 27, 2002.

EXTREMES FOR CURRENT YEAR.--Highest water level, 20.54 ft below land surface datum, June 13; lowest water level, 33.30 ft below land surface datum, Oct. 2.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

[Measurement method: S, steel tape. Water-level status: - - , static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Oct 22	33.10	S	--	Feb 19	25.11	S	--
Jan 2	28.14	S	--	Sep 19	25.41	S	--

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 381002078094201, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/381002078094201.2013.pdf

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DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	33.30	33.18	30.46	29.77	29.63	29.48	28.37	28.12	25.59	25.28	24.57	24.48
2	33.30	33.03	29.77	29.35	29.64	29.47	28.17	28.12	25.60	25.15	24.54	24.44
3	33.05	32.78	29.37	29.06	29.71	29.56	28.17	28.02	25.15	24.99	24.47	24.41
4	32.82	32.64	29.08	28.76	29.73	29.66	28.03	27.93	25.15	25.04	24.56	24.47
5	32.70	32.52	28.77	28.60	29.90	29.67	27.98	27.80	25.07	24.94	24.57	24.36
6	32.55	32.46	28.62	28.31	29.99	29.90	27.80	27.65	25.42	25.05	24.54	24.15
7	32.62	32.55	28.31	28.16	29.94	29.87	27.99	27.74	25.43	25.28	24.53	24.38
8	32.71	32.62	28.23	28.14	30.01	29.84	27.94	27.81	25.28	24.83	24.38	23.97
9	32.67	32.58	28.31	28.21	30.16	30.00	27.94	27.75	25.41	25.05	23.97	23.58
10	32.65	32.50	28.36	28.23	30.10	29.85	28.04	27.89	25.44	25.23	23.58	23.23
11	32.81	32.65	28.41	28.28	30.47	29.97	28.04	27.69	25.26	24.77	23.27	22.88
12	32.90	32.66	28.39	28.17	30.63	30.43	27.89	27.72	25.04	24.87	22.90	22.60
13	32.95	32.79	28.52	28.20	30.64	30.51	27.89	27.75	25.03	24.80	22.74	22.56
14	32.86	32.65	28.52	28.36	30.65	30.48	28.11	27.80	25.16	24.92	22.69	22.56
15	32.73	32.52	28.46	28.25	30.64	30.52	28.12	27.94	25.18	25.08	22.61	22.33
16	32.83	32.68	28.46	28.29	30.61	30.43	27.94	27.24	25.17	25.06	22.43	22.28
17	32.86	32.76	28.54	28.46	30.51	30.38	27.24	26.82	25.37	25.06	22.88	22.43
18	32.89	32.76	28.57	28.46	30.66	30.40	26.88	26.71	25.47	25.33	22.89	22.57
19	32.83	32.72	28.50	28.36	30.93	30.66	26.71	26.15	25.33	25.00	22.57	22.29
20	32.97	32.80	28.38	28.31	30.96	30.46	26.15	25.92	25.37	25.08	22.38	22.11
21	33.09	32.97	28.53	28.38	30.71	30.42	26.07	25.81	25.51	25.33	22.19	22.04
22	33.16	33.07	28.60	28.52	31.04	30.71	26.17	25.91	25.51	25.41	22.29	22.16
23	33.14	33.05	28.57	28.36	31.04	30.93	26.16	25.98	25.44	25.09	22.35	22.24
24	33.18	33.09	28.76	28.45	31.08	30.97	26.31	25.88	25.44	25.09	22.35	22.15
25	33.24	33.14	28.79	28.66	31.28	31.02	26.30	25.86	25.56	25.42	22.28	22.04
26	33.25	33.14	29.04	28.77	31.28	30.64	26.21	25.85	25.56	24.96	22.52	22.28
27	33.21	33.08	29.19	28.96	30.64	30.23	26.30	26.16	24.96	24.65	22.56	22.44
28	33.18	33.02	29.36	29.13	30.23	29.52	26.23	25.84	24.65	24.47	22.51	22.41
29	33.10	32.56	29.42	29.31	29.52	28.79	25.90	25.76	---	---	22.52	22.37
30	32.56	31.50	29.51	29.34	28.98	28.86	25.82	25.23	---	---	22.45	22.32
31	31.50	30.46	---	---	28.90	28.37	25.41	25.15	---	---	22.34	22.10
Month	33.30	30.46	30.46	28.14	31.28	28.37	28.37	25.15	25.60	24.47	24.57	22.04

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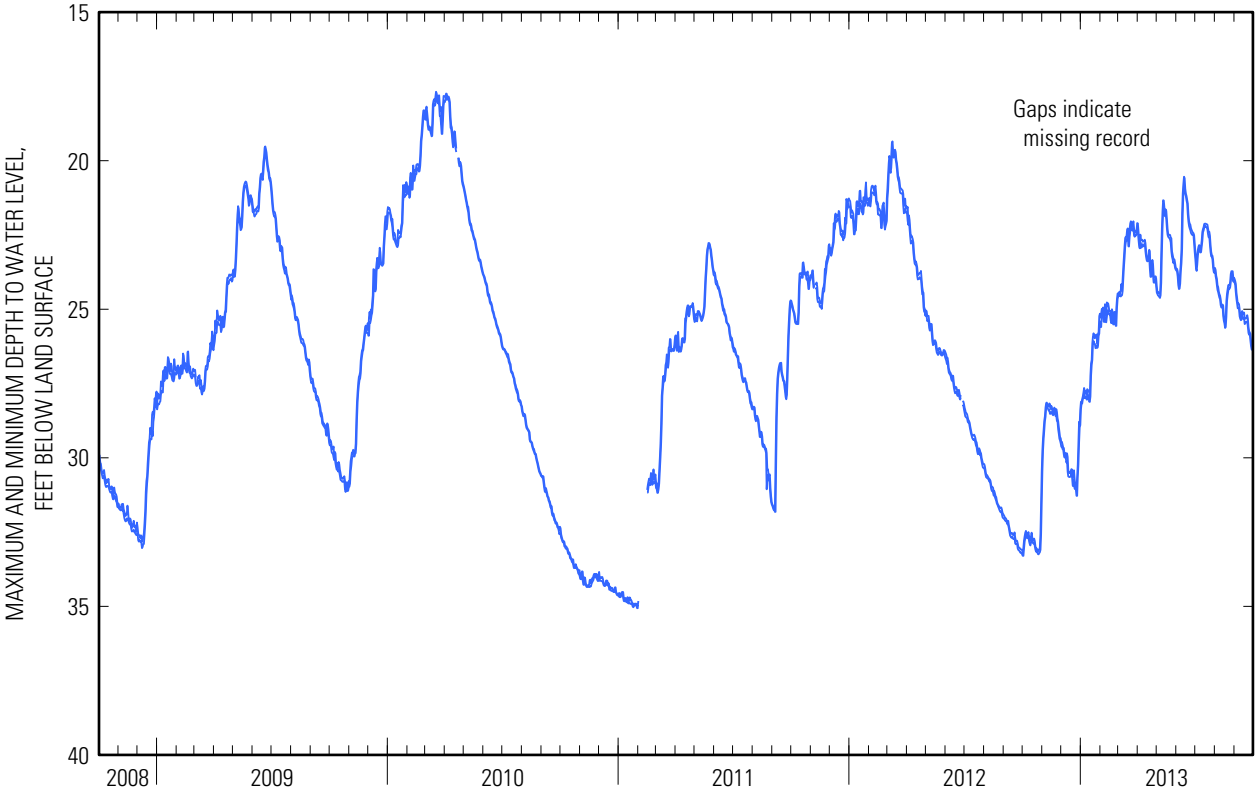
DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	22.37	22.11	24.44	24.24	23.70	23.63	23.33	23.09	23.70	23.61	24.10	23.98
2	22.64	22.37	24.49	24.44	23.73	23.64	23.63	23.33	23.89	23.68	24.19	24.05
3	22.87	22.64	24.54	24.42	23.90	23.72	23.71	23.49	24.00	23.88	24.45	24.15
4	22.95	22.73	24.55	24.46	24.19	23.90	23.49	23.18	24.19	23.97	24.66	24.45
5	22.73	22.49	24.59	24.48	24.32	24.18	23.18	22.99	24.35	24.19	24.81	24.62
6	22.93	22.66	24.62	24.49	24.31	24.13	23.05	22.89	24.42	24.25	24.97	24.81
7	22.92	22.67	24.53	24.11	24.14	23.72	22.97	22.84	24.52	24.40	24.95	24.80
8	22.81	22.66	24.11	23.11	23.72	23.44	23.03	22.88	24.61	24.49	25.00	24.83
9	22.89	22.73	23.11	22.29	23.45	22.98	23.09	22.97	24.66	24.54	25.24	25.00
10	22.87	22.70	22.29	21.71	22.98	21.78	23.08	22.89	24.86	24.66	25.32	25.24
11	22.86	22.71	21.71	21.33	21.78	21.11	22.89	22.69	24.94	24.86	25.37	25.30
12	22.77	22.66	21.58	21.34	21.11	20.79	22.71	22.40	24.94	24.88	25.35	25.15
13	23.05	22.77	21.76	21.58	20.79	20.54	22.41	22.30	24.90	24.84	25.16	25.06
14	23.23	23.02	21.87	21.75	20.95	20.59	22.35	22.24	25.23	24.88	25.26	25.12
15	23.35	23.18	21.76	21.64	21.12	20.95	22.26	22.13	25.39	25.23	25.33	25.16
16	23.39	23.30	21.98	21.69	21.20	21.11	22.18	22.12	25.48	25.35	25.30	25.11
17	23.33	23.27	22.29	21.98	21.34	21.19	22.22	22.12	25.63	25.47	25.50	25.29
18	23.36	23.25	22.49	22.29	21.44	21.32	22.23	22.13	25.60	25.26	25.47	25.32
19	23.25	23.00	22.56	22.48	21.81	21.44	22.25	22.14	25.26	24.73	25.42	25.31
20	23.64	23.06	22.59	22.50	22.05	21.81	22.31	22.15	24.73	24.48	25.42	25.31
21	23.91	23.64	22.61	22.49	22.20	22.03	22.47	22.28	24.53	24.33	25.41	25.20
22	23.91	23.73	22.66	22.50	22.28	22.12	22.58	22.41	24.38	24.19	25.59	25.31
23	23.77	23.54	22.75	22.59	22.34	22.15	22.54	22.39	24.29	24.19	25.80	25.59
24	23.58	23.34	23.05	22.61	22.43	22.27	22.83	22.52	24.31	24.20	25.86	25.74
25	23.87	23.47	23.23	23.05	22.47	22.33	23.07	22.83	24.26	24.07	25.83	25.78
26	24.10	23.85	23.32	23.16	22.50	22.38	23.22	23.07	24.09	23.81	26.05	25.83
27	24.11	23.95	23.44	23.27	22.48	22.42	23.23	23.18	23.81	23.72	26.24	26.05
28	24.09	23.94	23.40	23.32	22.51	22.44	23.33	23.20	23.80	23.72	26.36	26.24
29	23.98	23.89	23.49	23.33	22.79	22.51	23.60	23.33	23.96	23.72	26.35	26.24
30	24.24	23.97	23.62	23.46	23.09	22.79	23.74	23.60	24.07	23.95	26.37	26.26
31	---	---	23.67	23.60	---	---	23.78	23.69	24.03	23.94	---	---
Month	24.24	22.11	24.62	21.33	24.32	20.54	23.78	22.12	25.63	23.61	26.37	23.98

	Max	Min
Year	33.30	20.54

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