

Water-Data Report 2008

384821078472301 Local number 40U 3 SOW 218

Valley and Ridge aquifers
Brallier Formation

Shenandoah County, VA

LOCATION.--Lat 38°48'20.95", long 78°47'22.70" referenced to North American Datum of 1983, Shenandoah County, VA, Hydrologic Unit 02070006, 650 ft southwest of the intersection of Route 836 (Resort Drive) and Orkney Grade and 430 ft northwest of the intersection of Arnold Road and Brenda Lane in Basye.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 195 ft. Upper casing diameter 6.63 in; top of first opening 67 ft, bottom of last opening 111 ft.

DATUM.--Land-surface datum is 1336.85 ft above North American Vertical Datum of 1988. Measuring point: TOP OF CASING, 2.14 ft above land-surface datum, Oct. 17, 2006, to present.

PERIOD OF RECORD.--August 2007 to current year.

GAGE.--Electronic data logger and pressure transducer, 15-minute record interval.

REMARKS.--Well is located Brallier Formation of Upper Devonian age. Records provided by the Virginia Department of Environmental Quality - Water Division.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 11.76 ft below land-surface datum, May 12, 2008; lowest recorded, 16.20 ft below land-surface datum, Aug. 12, 13, 2008.

EXTREMES FOR CURRENT YEAR.--Highest water level, 11.76 ft below land surface datum, May 12; lowest water level, 16.20 ft below land surface datum, Aug. 12, 13.

384821078472301 Local number 40U 3 SOW 218—Continued

**DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MAXIMUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	---	14.90
2	---	---	---	---	---	---	---	---	---	---	---	14.94
3	---	---	---	---	---	---	---	---	---	---	---	14.97
4	---	---	---	---	---	---	---	---	---	---	---	15.07
5	---	---	---	---	---	---	---	---	---	---	---	15.22
6	---	---	---	---	---	---	---	---	---	---	---	15.30
7	---	---	---	---	---	---	---	---	---	---	---	15.30
8	---	---	---	---	---	---	---	---	---	---	---	15.30
9	---	---	---	---	---	---	---	---	---	---	---	15.30
10	---	---	---	---	---	---	---	---	---	---	---	15.34
11	---	---	---	---	---	---	---	---	---	---	---	14.93
12	---	---	---	---	---	---	---	---	---	---	---	14.44
13	---	---	---	---	---	---	---	---	---	---	---	14.48
14	---	---	---	---	---	---	---	---	---	---	---	14.51
15	---	---	---	---	---	---	---	---	---	---	---	14.65
16	---	---	---	---	---	---	---	---	---	---	15.24	14.80
17	---	---	---	---	---	---	---	---	---	---	15.21	14.96
18	---	---	---	---	---	---	---	---	---	---	15.33	15.04
19	---	---	---	---	---	---	---	---	---	---	15.31	15.10
20	---	---	---	---	---	---	---	---	---	---	15.27	15.19
21	---	---	---	---	---	---	---	---	---	---	14.63	15.25
22	---	---	---	---	---	---	---	---	---	---	14.45	15.34
23	---	---	---	---	---	---	---	---	---	---	14.52	15.46
24	---	---	---	---	---	---	---	---	---	---	14.64	15.49
25	---	---	---	---	---	---	---	---	---	---	14.71	15.46
26	---	---	---	---	---	---	---	---	---	---	14.17	15.48
27	---	---	---	---	---	---	---	---	---	---	14.25	15.46
28	---	---	---	---	---	---	---	---	---	---	14.37	15.44
29	---	---	---	---	---	---	---	---	---	---	14.49	15.50
30	---	---	---	---	---	---	---	---	---	---	14.66	15.49
31	---	---	---	---	---	---	---	---	---	---	14.73	---

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

[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 17	14.64	S	--	May 16	15.01	S	--
Apr 16	12.21	S	--	Aug 8	15.06	S	--

Water year 2007 highest: 12.21 Apr 16, 2007; lowest: 15.06 Aug 08, 2007

384821078472301 Local number 40U 3 SOW 218—Continued

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MAXIMUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15.44	14.88	15.46	13.77	14.40	14.45	14.11	12.72	14.25	15.50	15.09	14.74
2	15.42	15.01	15.41	14.18	13.16	14.52	14.33	12.95	14.39	15.34	15.11	14.78
3	15.44	14.99	15.35	14.26	13.04	14.48	14.33	13.13	14.41	15.11	14.94	14.76
4	15.54	15.14	15.36	14.19	13.20	14.37	13.93	13.42	14.34	15.09	15.00	14.79
5	15.60	15.22	15.49	14.11	13.24	13.85	13.62	13.52	14.03	14.61	15.20	14.83
6	15.56	15.22	15.59	14.23	13.33	13.18	13.62	13.67	14.16	14.28	15.55	14.82
7	15.56	15.35	15.51	14.37	13.66	13.11	13.38	13.74	14.22	14.12	15.70	14.52
8	15.58	15.38	15.50	14.38	13.78	12.93	13.39	13.89	14.30	14.09	15.89	14.58
9	15.59	15.35	15.50	14.57	13.81	12.88	13.40	13.78	14.40	14.34	15.97	14.67
10	15.65	15.52	15.00	14.57	14.05	12.86	13.47	13.27	14.53	14.60	16.06	14.86
11	15.69	15.55	14.72	14.27	14.14	12.90	13.45	12.81	14.65	14.73	16.16	14.94
12	15.80	15.49	14.70	13.64	14.10	13.23	13.25	12.16	14.70	14.78	16.20	14.90
13	15.81	15.49	14.71	13.61	13.85	13.32	13.28	12.28	14.72	14.75	16.20	14.96
14	15.85	15.48	14.86	13.81	13.52	13.35	13.46	12.53	14.65	14.52	16.04	14.96
15	15.86	15.36	14.86	14.03	13.49	13.55	13.60	12.76	14.23	14.69	15.83	15.28
16	15.87	14.74	14.50	14.14	13.58	13.73	13.67	12.73	14.20	14.76	15.71	15.37
17	15.90	14.72	13.63	14.10	13.54	13.77	13.77	12.42	13.92	14.80	15.58	15.37
18	15.87	14.90	13.74	13.96	13.69	13.64	13.91	12.71	14.02	14.90	15.53	15.49
19	15.81	14.95	13.90	13.86	13.85	13.42	13.99	13.02	14.03	14.98	15.53	15.53
20	15.95	14.97	14.10	14.12	14.02	13.11	14.00	13.01	14.16	15.01	15.56	15.49
21	16.00	14.99	14.27	14.18	14.07	12.77	13.26	12.28	14.31	15.10	15.55	15.51
22	15.93	15.25	14.31	14.02	13.85	12.99	12.66	12.71	14.31	15.17	15.58	15.58
23	15.79	15.40	14.25	---	14.10	13.16	12.53	12.95	14.62	15.22	15.56	15.62
24	15.80	15.40	13.71	---	14.13	13.34	12.78	13.16	15.07	14.14	15.47	15.60
25	15.42	15.31	13.81	14.34	14.04	13.42	12.88	13.27	15.17	14.18	15.50	15.60
26	14.77	15.22	13.86	14.19	13.99	13.50	12.96	13.39	15.26	14.30	15.62	15.53
27	14.06	15.36	14.11	14.35	14.32	---	12.98	13.57	15.44	14.61	15.59	15.16
28	14.28	15.38	14.16	14.41	14.51	13.83	12.91	13.80	15.52	14.74	15.34	15.01
29	14.35	15.32	13.97	14.33	14.51	13.97	12.23	13.87	15.49	14.81	14.35	15.08
30	14.47	15.38	13.97	14.52	---	14.01	12.52	13.98	15.48	14.86	14.48	15.08
31	14.58	---	13.81	14.60	---	14.00	---	14.08	---	14.97	14.62	---

384821078472301 Local number 40U 3 SOW 218—Continued

