

Water-Data Report 2011

392530075582001 Local number CE Dd 191

Northern Atlantic Coastal Plain aquifer system
Upper Patapsco Aquifer In the Patapsco Formation

Cecil County, MD

LOCATION.--Lat 39°25'30.3", long 75°58'20.5" referenced to North American Datum of 1983, Cecil County, MD, Hydrologic Unit 02060002, at U.S. Army Corps of Engineers Pearce Creek Dredge Material Containment Area.

GROUNDWATER RECORDS

WELL CHARACTERISTICS.--Depth 150 ft. Upper casing diameter 4 in; top of first opening 145 ft, bottom of last opening 150 ft.

DATUM.--Land-surface datum is 21.49 ft above North American Vertical Datum of 1988. Measuring point: Top of 4-inch PVC casing, 2.03 ft above land-surface datum, Dec. 23, 2010, to present.

PERIOD OF RECORD.--December 2010 to March 2011.

GAGE.--Water-level measurements by U.S. Geological Survey personnel. Equipped with digital water-level recorder--15-minute recording interval, December 2010 to March 2011.

REMARKS.--Pearce Creek Dredge Material Containment Area groundwater study observation well 21D.

EXTREMES FOR PERIOD OF RECORD.--Highest static water-level measured, 5.23 ft above sea level, March 18, 2011 (recorder); lowest static measured, 4.04 ft above sea level, December 30, 2010 and January 24, 2011 (recorder). Lowest water-level affected by pumping measured, 22.15 ft below sea level, January 26, 2011.

**WATER SURFACE ELEVATION IN FEET NAVD 1988
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

[Measurement method: T, electric tape. Water-level status: --, static; P, site was being pumped.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Dec 23	4.34	T	--	Jan 26	-21.41	T	P
Jan 20	4.16	T	--	Mar 18	5.21	T	--
26	4.19	T	--	May 31	5.12	T	--
26	-22.15	T	P				

Water year 2011 lowest: 4.16, Jan 20, 2011, highest: 5.21, Mar 18, 2011

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GROUNDWATER LEVEL ABOVE NAVD 1988, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	---	---	---	---	---	---	4.17	4.11	4.22	4.15	4.75	4.64
2	---	---	---	---	---	---	4.24	4.17	4.38	4.21	4.73	4.63
3	---	---	---	---	---	---	4.18	4.10	4.30	4.22	4.64	4.56
4	---	---	---	---	---	---	4.28	4.14	4.31	4.22	4.62	4.52
5	---	---	---	---	---	---	4.27	4.19	4.52	4.30	4.73	4.62
6	---	---	---	---	---	---	4.34	4.24	4.48	4.38	5.00	4.73
7	---	---	---	---	---	---	4.39	4.34	4.50	4.38	5.00	4.83
8	---	---	---	---	---	---	4.41	4.32	4.52	4.38	4.83	4.74
9	---	---	---	---	---	---	4.32	4.18	4.43	4.36	4.85	4.74
10	---	---	---	---	---	---	4.18	4.12	4.44	4.40	5.12	4.84
11	---	---	---	---	---	---	4.27	4.13	4.44	4.36	5.14	5.08
12	---	---	---	---	---	---	4.28	4.20	4.48	4.43	5.19	5.14
13	---	---	---	---	---	---	4.21	4.11	4.48	4.39	5.20	5.06
14	---	---	---	---	---	---	4.12	4.08	4.58	4.47	5.08	5.02
15	---	---	---	---	---	---	4.12	4.06	4.47	4.33	5.04	4.98
16	---	---	---	---	---	---	4.12	4.05	4.40	4.30	5.14	5.04
17	---	---	---	---	---	---	4.09	4.05	4.46	4.37	5.16	5.08
18	---	---	---	---	---	---	4.25	4.08	4.55	4.45	---	---
19	---	---	---	---	---	---	4.27	4.18	4.55	4.46	---	---
20	---	---	---	---	---	---	4.28	4.16	4.47	4.40	---	---
21	---	---	---	---	---	---	4.31	4.21	4.57	4.47	---	---
22	---	---	---	---	---	---	4.23	4.20	4.55	4.46	---	---
23	---	---	---	---	---	---	4.22	4.08	4.47	4.41	---	---
24	---	---	---	---	4.32	4.26	4.08	4.04	4.58	4.46	---	---
25	---	---	---	---	4.33	4.24	4.15	4.07	4.76	4.57	---	---
26	---	---	---	---	4.41	4.32	---	---	4.64	4.58	---	---
27	---	---	---	---	4.40	4.27	4.34	4.25	4.69	4.64	---	---
28	---	---	---	---	4.27	4.14	4.32	4.27	4.81	4.65	---	---
29	---	---	---	---	4.16	4.09	4.29	4.23	---	---	---	---
30	---	---	---	---	4.13	4.04	4.26	4.16	---	---	---	---
31	---	---	---	---	4.13	4.09	4.17	4.13	---	---	---	---
Month	---	---	---	---	4.41	4.04	4.41	4.04	4.81	4.15	5.20	4.52

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**GROUNDWATER LEVEL ABOVE NAVD 1988, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

	Max	Min
Year	5.20	4.04

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