



Water-Data Report 2011

392556075590001 Local number CE Dd 126

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

Cecil County, MD

LOCATION.--Lat 39°25'56.0", long 75°59'00.5" 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 127.5 ft. Upper casing diameter 4 in; top of first opening 117.5 ft, bottom of last opening 127.5 ft. Drilled observation well.

DATUM.--Land-surface datum is 39.03 ft above North American Vertical Datum of 1988. Measuring point: Top of PVC coupling, 2.42 ft above land-surface datum, May 24, 2010, to Dec. 23, 2010; Top of PVC casing, 2.28 ft above land-surface datum, Dec. 23, 2010, to present.

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

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

REMARKS.--Pearce Creek Dredge Material Containment Area groundwater study observation well CSW 2. Water levels affected by tides.

EXTREMES FOR PERIOD OF RECORD.--Highest static water-level measured, 4.33 ft above sea level, October 1, 2010 (recorder); lowest static measured, 2.60 ft above sea level, November 1, 2010 (recorder). Lowest water-level affected by pumping measured, 0.28 ft above sea level, May 11, 2010.

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

[Measurement method: T, electric tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Oct 20	3.26	T	--	Mar 18	3.37	T	--
Dec 23	2.87	T	--				

Water year 2011 lowest: 2.87, Dec 23, 2010, highest: 3.37, 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	4.33	3.28	2.81	2.60	3.78	3.14	---	---	---	---	---	---
2	3.45	3.26	2.90	2.67	3.46	3.02	---	---	---	---	---	---
3	3.59	3.15	3.16	2.78	3.26	3.06	---	---	---	---	---	---
4	3.35	3.12	3.37	3.02	3.33	3.05	---	---	---	---	---	---
5	3.41	3.21	3.40	3.13	3.32	2.99	---	---	---	---	---	---
6	3.47	3.21	3.37	2.83	3.23	2.98	---	---	---	---	---	---
7	3.44	3.21	3.01	2.61	3.23	2.84	---	---	---	---	---	---
8	3.33	3.01	2.98	2.74	2.95	2.65	---	---	---	---	---	---
9	3.33	3.05	3.00	2.72	2.87	2.64	---	---	---	---	---	---
10	3.43	3.03	3.06	2.83	2.90	2.68	---	---	---	---	---	---
11	3.47	3.19	3.20	2.95	2.96	2.75	---	---	---	---	---	---
12	3.43	3.16	3.37	3.20	3.46	2.92	---	---	---	---	---	---
13	3.35	3.09	3.49	3.31	3.44	2.96	---	---	---	---	---	---
14	3.51	3.23	3.50	3.29	2.96	2.66	---	---	---	---	---	---
15	3.41	3.21	3.46	3.29	2.80	2.62	---	---	---	---	---	---
16	3.34	2.69	3.51	3.28	3.02	2.71	---	---	---	---	---	---
17	3.24	2.69	3.78	3.40	3.00	2.73	---	---	---	---	---	---
18	3.21	3.02	3.40	2.99	3.09	2.82	---	---	---	---	---	---
19	3.26	3.09	3.12	2.71	3.03	2.78	---	---	---	---	---	---
20	3.36	3.08	3.26	2.90	2.93	2.66	---	---	---	---	---	---
21	3.44	3.23	3.20	2.74	2.90	2.61	---	---	---	---	---	---
22	3.36	2.93	3.28	2.83	3.24	2.80	---	---	---	---	---	---
23	3.16	2.92	3.31	3.10	---	---	---	---	---	---	---	---
24	3.15	2.75	3.31	2.68	---	---	---	---	---	---	---	---
25	3.34	2.87	3.23	2.84	---	---	---	---	---	---	---	---
26	3.36	3.02	3.37	3.19	---	---	---	---	---	---	---	---
27	3.30	3.12	3.33	3.05	---	---	---	---	---	---	---	---
28	3.24	2.87	3.12	2.77	---	---	---	---	---	---	---	---
29	3.02	2.61	3.04	2.81	---	---	---	---	---	---	---	---
30	3.14	2.66	3.20	2.91	---	---	---	---	---	---	---	---
31	3.34	2.63	---	---	---	---	---	---	---	---	---	---
Month	4.33	2.61	3.78	2.60	3.78	2.61	---	---	---	---	---	---

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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	4.33	2.60

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