

Water-Data Report 2011

**392537075593002 Local number CE Dd 152**

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

Cecil County, MD

LOCATION.--Lat 39°25'36.8", long 75°59'29.9" 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 177 ft. Upper casing diameter 4 in; top of first opening 167 ft, bottom of last opening 177 ft. Drilled observation well.

DATUM.--Land-surface datum is 21.99 ft above North American Vertical Datum of 1988. Measuring point: Bottom of V-notch cut in PVC coupling, 2.32 ft above land-surface datum, May 24, 2010, to Mar. 18, 2011; Top of PVC casing, 2.12 ft above land-surface datum, Mar. 18, 2011, to present.

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

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

REMARKS.--Pearce Creek Dredge Material Containment Area groundwater study observation well 16B. Water-levels affected by tides.

EXTREMES FOR PERIOD OF RECORD.--Highest static water-level measured, 4.87 ft above sea level, May 3, 2010; lowest static measured, 2.56 ft above sea level, January 14, 2011 (recorder). Lowest water-level affected by pumping measured, 6.43 ft below sea level, May 18, 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	3.29	T	--	Mar 18	3.46	T	--
Dec 23	3.05	T	--	18	3.50	T	--
Feb 14	2.98	T	--	Jun 9	3.61	T	--

Water year 2011 lowest: 2.98, Feb 14, 2011, highest: 3.61, Jun 9, 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	
<b>1</b>	3.93	3.51	3.06	2.88	3.54	3.28	3.01	2.91	2.94	2.82	3.22	3.00
<b>2</b>	3.51	3.37	3.03	2.91	3.40	3.23	3.01	2.94	3.08	2.93	3.20	3.05
<b>3</b>	3.45	3.31	3.21	3.02	3.31	3.21	2.94	2.79	2.99	2.83	3.07	2.89
<b>4</b>	3.35	3.26	3.44	3.20	3.36	3.25	3.07	2.85	2.99	2.81	3.10	2.91
<b>5</b>	3.39	3.32	3.41	3.30	3.37	3.26	3.06	2.95	3.17	2.94	3.26	3.07
<b>6</b>	3.42	3.33	3.30	3.12	3.30	3.22	3.14	2.94	3.16	2.93	3.57	3.24
<b>7</b>	3.42	3.33	3.13	3.04	3.28	3.12	3.25	3.08	3.05	2.87	3.56	3.13
<b>8</b>	3.35	3.26	3.20	3.10	3.12	2.96	3.26	3.17	3.06	2.87	3.14	3.05
<b>9</b>	3.32	3.24	3.20	3.04	2.99	2.90	3.19	2.86	2.90	2.73	3.29	3.11
<b>10</b>	3.39	3.23	3.12	3.03	3.06	2.91	2.88	2.77	2.91	2.77	3.76	3.27
<b>11</b>	3.41	3.30	3.19	3.05	3.16	3.00	3.00	2.79	2.92	2.73	3.77	3.67
<b>12</b>	3.41	3.28	3.35	3.19	3.50	3.16	3.04	2.91	3.00	2.89	3.69	3.63
<b>13</b>	3.35	3.22	3.43	3.34	3.51	3.24	2.92	2.66	2.98	2.86	3.68	3.40
<b>14</b>	3.48	3.30	3.44	3.36	3.24	2.99	2.73	2.56	3.04	2.90	3.40	3.27
<b>15</b>	3.49	3.40	3.45	3.36	3.01	2.93	2.90	2.73	2.90	2.63	3.38	3.23
<b>16</b>	3.44	3.15	3.55	3.38	3.08	2.93	2.91	2.79	2.89	2.63	3.54	3.38
<b>17</b>	3.26	3.14	3.64	3.44	3.05	2.95	2.81	2.71	2.97	2.83	3.51	3.41
<b>18</b>	3.27	3.16	3.44	3.26	3.08	2.98	3.02	2.81	3.08	2.94	---	---
<b>19</b>	3.34	3.25	3.26	3.12	3.09	3.03	3.03	2.94	3.05	2.89	---	---
<b>20</b>	3.39	3.27	3.27	3.14	3.07	2.93	3.05	2.90	2.91	2.74	---	---
<b>21</b>	3.45	3.38	3.17	3.06	3.03	2.93	3.06	2.92	3.03	2.90	---	---
<b>22</b>	3.38	3.21	3.26	3.04	3.13	2.96	2.92	2.81	3.00	2.90	---	---
<b>23</b>	3.25	3.14	3.33	3.23	3.12	2.96	2.90	2.75	2.98	2.86	---	---
<b>24</b>	3.23	3.13	3.30	3.07	2.98	2.85	2.82	2.64	3.13	2.92	---	---
<b>25</b>	3.32	3.15	3.32	3.06	3.12	2.92	2.89	2.80	3.42	3.13	---	---
<b>26</b>	3.35	3.25	3.39	3.31	3.16	3.07	3.05	2.85	3.19	2.98	---	---
<b>27</b>	3.36	3.29	3.38	3.20	3.17	2.88	3.06	2.92	3.15	3.08	---	---
<b>28</b>	3.36	3.21	3.22	3.02	2.90	2.80	3.11	2.97	3.33	3.09	---	---
<b>29</b>	3.24	3.04	3.09	2.97	2.87	2.78	3.04	2.91	---	---	---	---
<b>30</b>	3.27	2.99	3.28	3.07	2.88	2.77	2.96	2.83	---	---	---	---
<b>31</b>	3.31	3.05	---	---	2.94	2.85	2.83	2.71	---	---	---	---
<b>Month</b>	3.93	2.99	3.64	2.88	3.54	2.77	3.26	2.56	3.42	2.63	3.77	2.89

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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	---	---	---	---	---	---	---	---	---	---	---	---
<b>Month</b>	---	---	---	---	---	---	---	---	---	---	---	---

	Max	Min
<b>Year</b>	3.93	2.56

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