



Water-Data Report 2011

**392521075583301 Local number CE Dd 153**

Northern Atlantic Coastal Plain aquifer system  
Magothy Formation

Cecil County, MD

LOCATION.--Lat 39°25'20.7", long 75°58'33.2" referenced to North American Datum of 1983, Cecil County, MD, Hydrologic Unit 02060002, off Pond Neck Road, near U.S. Army Corps of Engineers Pearce Creek Dredge Material Containment Area.

**GROUNDWATER RECORDS**

WELL CHARACTERISTICS.--Depth 88 ft. Upper casing diameter undefined; top of first opening 78 ft, bottom of last opening 88 ft. Drilled observation well.

DATUM.--Land-surface datum is 48.34 ft above North American Vertical Datum of 1988. Measuring point: Bottom of V-notch cut in PVC coupling, 1.79 ft above land-surface datum, May 24, 2010, to Mar. 18, 2011; Top of PVC casing, 1.65 ft above land-surface datum, Mar. 18, 2011, to present.

PERIOD OF RECORD.--May 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 March 2011.

REMARKS.--Pearce Creek Dredge Material Containment Area groundwater study observation well 17A.

EXTREMES FOR PERIOD OF RECORD.--Highest static water level measured, 9.84 ft above sea level, May 3, 2010; lowest static measured, 5.42 ft above sea level, September 26, 2010 (recorder). Lowest water level affected by pumping measured, 1.14 ft above sea level, May 20, 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	6.83	T	--	Mar 18	8.45	T	--
Jan 20	7.05	T	--	18	8.44	T	--

Water year 2011 lowest: 6.83, Oct 20, 2010, highest: 8.45, 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	
<b>1</b>	6.73	6.38	6.85	6.69	7.30	7.05	7.10	7.03	7.20	7.06	7.95	7.72
<b>2</b>	6.48	6.38	6.79	6.70	7.21	7.14	7.15	7.09	7.46	7.19	7.88	7.72
<b>3</b>	6.56	6.48	6.96	6.79	7.24	7.17	7.11	7.04	7.38	7.22	7.80	7.63
<b>4</b>	6.67	6.55	7.26	6.96	7.32	7.23	7.20	7.06	7.37	7.22	7.72	7.63
<b>5</b>	6.71	6.67	7.28	7.16	7.34	7.30	7.21	7.15	7.67	7.37	7.89	7.71
<b>6</b>	6.83	6.71	7.17	7.05	7.38	7.30	7.27	7.19	7.64	7.48	8.25	7.89
<b>7</b>	6.86	6.81	7.16	7.04	7.36	7.24	7.33	7.26	7.64	7.48	8.27	7.97
<b>8</b>	6.82	6.77	7.31	7.15	7.24	7.10	7.32	7.21	7.70	7.50	7.98	7.89
<b>9</b>	6.82	6.77	7.24	7.04	7.11	7.01	7.21	6.97	7.52	7.42	8.06	7.91
<b>10</b>	6.82	6.77	7.06	7.03	7.06	7.00	6.98	6.92	7.58	7.50	8.51	8.06
<b>11</b>	6.83	6.77	7.04	7.00	7.13	7.06	7.10	6.94	7.54	7.47	8.54	8.45
<b>12</b>	6.81	6.70	7.05	7.00	7.54	7.13	7.15	7.05	7.59	7.52	8.48	8.43
<b>13</b>	6.71	6.69	7.13	7.02	7.55	7.46	7.06	6.89	7.60	7.49	8.49	8.25
<b>14</b>	6.93	6.70	7.18	7.13	7.46	7.31	6.90	6.86	7.72	7.59	8.26	8.17
<b>15</b>	6.99	6.92	7.20	7.15	7.33	7.27	7.05	6.88	7.59	7.33	8.21	8.14
<b>16</b>	6.97	6.86	7.33	7.18	7.34	7.25	7.05	6.92	7.45	7.33	8.41	8.21
<b>17</b>	6.86	6.79	7.38	7.16	7.32	7.19	6.93	6.88	7.55	7.44	8.42	8.36
<b>18</b>	6.80	6.71	7.16	7.08	7.25	7.18	7.14	6.92	7.65	7.54	---	---
<b>19</b>	6.80	6.71	7.09	7.03	7.30	7.25	7.18	7.10	7.65	7.53	---	---
<b>20</b>	6.96	6.80	7.12	7.05	7.31	7.26	7.17	7.05	7.53	7.44	---	---
<b>21</b>	7.05	6.95	7.08	7.02	7.30	7.25	7.27	7.12	7.68	7.51	---	---
<b>22</b>	7.00	6.89	7.09	7.02	7.32	7.26	7.13	7.07	7.65	7.49	---	---
<b>23</b>	6.93	6.88	7.15	7.07	7.30	7.22	7.13	6.96	7.49	7.43	---	---
<b>24</b>	6.91	6.79	7.08	6.94	7.23	7.17	6.97	6.87	7.62	7.47	---	---
<b>25</b>	6.93	6.80	7.14	6.94	7.20	7.17	7.04	6.94	7.96	7.62	---	---
<b>26</b>	6.91	6.85	7.25	7.14	7.30	7.18	7.32	7.03	7.78	7.63	---	---
<b>27</b>	6.98	6.90	7.22	7.08	7.30	7.07	7.32	7.17	7.80	7.73	---	---
<b>28</b>	7.02	6.97	7.08	6.92	7.08	6.95	7.26	7.18	8.00	7.77	---	---
<b>29</b>	6.99	6.91	6.93	6.87	6.98	6.94	7.21	7.14	---	---	---	---
<b>30</b>	6.97	6.90	7.06	6.90	6.99	6.92	7.17	7.08	---	---	---	---
<b>31</b>	7.01	6.84	---	---	7.03	6.98	7.09	7.02	---	---	---	---
<b>Month</b>	7.05	6.38	7.38	6.69	7.55	6.92	7.33	6.86	8.00	7.06	8.54	7.63

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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>	8.54	6.38

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