Water-Data Report 2008

383022077021002 Local number CH Cd 60

Northern Atlantic Coastal Plain aquifer system
Pliocene Series

Charles County, MD

LOCATION.--Lat 38°30′22″, long 77°02′10″ referenced to North American Datum of 1983, Charles County, MD, Hydrologic Unit 02070011.

GROUND-WATER RECORDS

WELL CHARACTERISTICS.--Depth 17 ft. Upper casing diameter 1 in; top of first opening 16 ft, bottom of last opening 17 ft. Observation, water-table well.

DATUM.--Land-surface datum is 154.66 ft above North American Vertical Datum of 1988. Measuring point: Top of PVC casing., 1.15 ft above land-surface datum, July 24, 2007, to present.

PERIOD OF RECORD.--December 2007 to August 2008.

GAGE.--Water-level measurements by U.S. Geological Survey personnel.

REMARKS.--Port Tobacco project well.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 143.93 ft above sea level, May 29, 2008; lowest measured, 138.84 ft above sea level, September 12, 2007.

WATER SURFACE ELEVATION IN FEET NAVD 1988
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

[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
Dec 3	139.20	T	--	Jun 3	143.31	T	--
13	139.18	T	--	Aug 5	141.23	T	--
May 29	143.93	T	--				

Water year 2008; lowest: 139.18 Dec 13, 2007 highest: 143.93 May 29, 2008

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2007, June 2008.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 9

[Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Geologic unit	Depth of well, feet below LSD (72008)	Water level, depth below MP, feet (61055)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc-tance, wat unf lab, µS/cm 25 degC (90095)
Oct									
09...	1230	Ground water, regular	121PLCN	17.00	--	--	--	--	231
Jun									
03...	1000	Ground water, regular	121PLCN	17.00	12.5	6.1	5.2	5.7	214

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 9

[Remark codes: <, less than; E, estimated.]

Date	Specif-ic conduc-tance, wat unf µS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Alka-linity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicar-bonate, wat flt infl pt titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)
Oct													
09...	--	--	.74	1.37	1.27	38.8	--	51	62	.05	39.1	<.12	8.52
Jun													
03...	231	15.8	.62	1.20	1.14	36.9	14	12	15	--	28.2	<.12	8.46

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 9

[Remark codes: <, less than; E, estimated.]

Date	Sulfate water, fltrd, mg/L (00945)	Residue total non-filter-able, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Total nitro-gen, water, unfltrd mg/L (00600)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Organic carbon, water, unfltrd mg/L (00680)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Mangan-ese, water, fltrd, µg/L (01056)
Oct													
09...	25.1	56	.1	<.02	1.30	<.002	.93	1.4	E.004	1.03	<2	31	50.5
Jun													
03...	30.3	--	<.1	--	--	--	--	--	--	.97	--	E5	15.3

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 4 of 9
[Remark codes: <, less than; E, estimated.]

Date	1-Methyl-naphthalene, water, unfltrd µg/L (81696)	2,6-Dimethyl-naphthalene, water, unfltrd µg/L (62805)	2-Methyl-naphthalene, water, unfltrd µg/L (30194)	3,4-Dichlorophenyl isocyanate wat unf µg/L (63145)	3-beta-Coprostanol, water, unfltrd µg/L (62806)	3-Methyl-1H-indole, water, unfltrd µg/L (62807)	3-tert-Butyl-4-hydroxyanisole wat unf µg/L (61702)	4-Cumylphenol, water, unfltrd µg/L (62808)	4-n-Octylphenol, water, unfltrd µg/L (62809)	4-Nonylphenol, all isomers wat unf µg/L (62829)	4-Nonyl-phenol diethoxylate, wat unf µg/L (61703)	4-Nonyl-phenol monoethoxylate, wat unf µg/L (61704)	4t-Octylphenol diethoxylate, wat flt µg/L (61705)
Oct													
09...	<.2	<.2	<.2	<2	E.828	<.2	<.2	<.2	<.2	<1.6	<3.2	<2	<.32
Jun													
03...	<.2	<.2	<.2	<2	<.8	<.2	<.2	<.2	<.2	<1.6	<3.2	<2	<.32

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 5 of 9
[Remark codes: <, less than; E, estimated.]

Date	4t-Octylphenol monoethoxylate, wat flt µg/L (61706)	4-tert-Octylphenol, water, unfltrd µg/L (62810)	5-Methyl-1H-benzotriazole, wat unf µg/L (61944)	Acetophenone water, unfltrd µg/L (62811)	AHTN, water, unfltrd µg/L (62812)	Anthracene, water, unfltrd µg/L (34220)	9,10-Anthraquinone water, unfltrd µg/L (62813)	Atrazine, water, unfltrd µg/L (39630)	BDE congenr 47, water, unfltrd µg/L (63147)	Benzo[a]pyrene, water, unfltrd µg/L (34247)	Benzophenone water, unfltrd µg/L (62814)	beta-Sitosterol, water, unfltrd µg/L (62815)	beta-Stigmastanol, water, unfltrd µg/L (61948)
Oct													
09...	<1	<.2	<3.20	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<1.60	<1.60
Jun													
03...	<1	<.2	<1.6	<.3	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.8	<.8

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 6 of 9
[Remark codes: <, less than; E, estimated.]

Date	Bis(2-ethylhexyl) phthalate, wat unf µg/L (39100)	Bisphenol A, water, unfltrd µg/L (62816)	Bisphenol A -d3, surrog, water, unfltrd % recvy (62839)	Bromacil, water, unfltrd µg/L (30234)	Caffeine, water, unfltrd µg/L (81436)	Caffeine -13C, surrog, water, unfltrd % recvy (62840)	Camphor water, unfltrd µg/L (62817)	Carbaryl, water, unfltrd µg/L (39750)	Carbazole, water, unfltrd µg/L (77571)	Chlorpyrifos water, unfltrd µg/L (38932)	Cholesterol, water, unfltrd µg/L (62818)	Cotinine, water, unfltrd µg/L (61945)	Decafluorobiphenyl, surrog, wat unf % recvy (62841)
Oct													
09...	<2	<.4	96.9	<.2	<.2	53.0	<.2	<.2	<.2	<.2	E.842	<.8	79.1
Jun													
03...	<2	E.119	84.1	<.2	<.2	84.9	<.2	<.2	<.2	<.2	<.8	<.8	65.4

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 7 of 9
[Remark codes: <, less than; E, estimated.]

Date	DEET, water, unfltrd µg/L (61947)	Diazinon, water, unfltrd µg/L (39570)	Dichlorvos, water, unfltrd µg/L (30218)	Diethyl phthalate, water, unfltrd µg/L (34336)	D-Limonene, water, unfltrd µg/L (62819)	Fluoranthene water, unfltrd µg/L (34376)	Fluoranthene -d10, surrog, water, unflt % recvy (62842)	HHCB, water, unfltrd µg/L (62823)	Indole, water, unfltrd µg/L (62824)	Isoborneol, water, unfltrd µg/L (62825)	Isophorone water, unfltrd µg/L (34408)	Isoquinoline, water, unfltrd µg/L (62826)	Menthol water, unfltrd µg/L (62827)
Oct													
09...	E.104	<.2	<.2	<.2	<.2	<.2	76.7	<.2	<.2	<.2	<.2	<.400	<.2
Jun													
03...	<.2	<.2	<.2	<.2	<.2	<.2	88.5	<.2	<.2	<.2	<.2	<.2	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 8 of 9
[Remark codes: <, less than; E, estimated.]

Date	Metalaxyl, water, unfltrd µg/L (04254)	Methyl salicylate, water, unfltrd µg/L (62828)	Metolachlor, water, unfltrd µg/L (82612)	p-Cresol, water, unfltrd µg/L (77146)	Pentachlorophenol, water, unfltrd µg/L (39032)	Phenanthrene, water, unfltrd µg/L (34461)	Phenol, water, unfltrd µg/L (34694)	Prometon, water, unfltrd µg/L (39056)	Pyrene, water, unfltrd µg/L (34469)	Tributyl phosphate, water, unfltrd µg/L (62832)	Triclosan, water, unfltrd µg/L (61708)	Triethyl citrate water, unfltrd µg/L (62833)	Triphenyl phosphate, water, unfltrd µg/L (62834)
Oct													
09...	<.2	<.2	<.2	<.2	<.8	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Jun													
03...	<.2	<.2	<.2	<.2	<.8	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 9 of 9
[Remark codes: <, less than; E, estimated.]

Date	Tris(2-butoxyethyl) phosphate, wat unf µg/L (62830)	Tris(2-chloroethyl) phosphate, wat unf µg/L (62831)	Tris-(diCl-i-Pr) phosphate, wat unf µg/L (61707)	1,4-Dichlorobenzene water, unfltrd µg/L (34571)	Tribromomethane water, unfltrd µg/L (32104)	Isopropylbenzene water, unfltrd µg/L (77223)	Naphthalene, water, unfltrd µg/L (34696)	Tetrachloroethene, water, unfltrd µg/L (34475)	Sampling method, code (82398)
Oct									
09...	<.2	E.0410	<.2	<.2	<.2	<.2	<.2	<.4	4080
Jun									
03...	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.4	4080