



## Water-Data Report 2009

**01461840 ALEXAUKEN CREEK TRIBUTARY AT MOUNT AIRY, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 40°24'22", long 74°55'11" referenced to North American Datum of 1983, West Amwell Township, Hunterdon County, NJ, Hydrologic Unit 02040105, at bridge on Sandy Ridge-Mount Airy Road (County Route 605), 0.2 mi upstream from mouth, 0.8 mi northwest of Mount Airy, 1.0 mi southeast of Dilts Corner, and 3.0 mi northeast of Lambertville.

DRAINAGE AREA.--3.48 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--November 2008 to September 2009.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 11.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 5

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

Date	Time	Baro-metric pressure, air, mm Hg (00025)	Temper-ature, air, deg C (00020)	UV absorb-ance, 254 nm, wat flt /cm (50624)	UV absorb-ance, 280 nm, wat flt /cm (61726)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, µS/cm @ 25 degC (00095)	Turbdty white light, det ang 90+/-30	Dis-solved solids, dried @ 180degC	Dis-solved solids, sum of constituents, mg/L (70301)
Nov 20...	0930	757	2.0	.062	.047	11.8	92	7.8	190	4.8	1.9	116
Feb 18...	0930	757	2.5	.034	.026	13.5	94	7.7	229	.6	1.9	130
May 07...	0930	753	21.0	.195	.153	9.3	88	7.2	125	12.6	51	89
Sep 01...	1030	766	21.0	.074	.056	8.8	88	7.6	185	15.1	2.2	125
												E114

## 01461840 ALEXAUKEN CREEK TRIBUTARY AT MOUNT AIRY, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 5

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

Date	ANC,						Inor-						
	Hard- ness, water, mg/L as CaCO <sub>3</sub> (00900)	Sus- pended solids, water, unfiltrd mg/L (00530)	Calcium water, filtrd, mg/L (00915)	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	wat unf fixed end pt, lab, mg/L as CaCO <sub>3</sub> (90410)	Total carbon, susnd sedimnt total, mg/L (00694)	Chlor- ide, water, filtrd, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	Inor- ganic carbon, susnd sedimnt total, mg/L (00688)	Silica, water, filtrd, mg/L SiO <sub>2</sub> (00955)	Sulfate water, filtrd, mg/L (00945)
Nov 20...	--	<1	--	6.42	.89	8.52	45	E.1	11.4	E.04	<.04	12.6	22.5
Feb 18...	77	1	18.6	7.42	1.27	12.2	45	<.2	20.4	E.05	<.04	12.5	25.1
May 07...	42	56	10.6	3.87	1.46	7.09	30	1.6	9.90	<.08	E.05	11.5	11.0
Sep 01...	66	1	16.5	6.15	1.67	8.91	52	E.1	10.7	E.06	<.04	16.0	17.3

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 3 of 5

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

Date	Ammonia		Nitrate	Ortho-	Partic-	Beryll-			Chrom-				
	+ org-N, water, filtrd, mg/L as N (00623)	Ammonia water, filtrd, mg/L as N (00608)	+ nitrite water, filtrd, mg/L as N (00631)	phos- phate, water, filtrd, mg/L as P (00671)	phos- phorus, water, filtrd, mg/L as P (49570)	partic- ulate nitro- gen, susp, water, mg/L as P (00666)	Phos- phorus, water, filtrd, mg/L as P (00665)	Phos- phorus, water, unfiltrd, mg/L as P (00602)	Total nitro- gen, water, filtrd, mg/L (00600)	Total nitro- gen, water, unfiltrd, recover able, mg/L (01007)	Barium, water, unfiltrd, recover able, mg/L (01012)	Beryll- ium, water, unfiltrd, recover able, mg/L (01027)	Chrom- ium, water, unfiltrd, recover able, mg/L (01034)
Nov 20...	.17	<.010	1.91	.046	<.02	.051	.054	2.1	--	--	--	--	--
Feb 18...	.28	.080	1.63	.027	<.02	.027	.032	1.9	--	68.1	<.02	<.06	<.40
May 07...	.40	.022	.95	.064	.18	.079	.154	1.3	1.5	--	--	--	--
Sep 01...	.27	<.010	1.29	.058	<.02	.067	.070	1.6	--	63.8	<.02	<.06	<.40

## 01461840 ALEXAUKEN CREEK TRIBUTARY AT MOUNT AIRY, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 4 of 5

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

Date	Mangan-										Boron, water, unfltrd (01022)	Selen- ium, water, unfltrd (01147)	Organic carbon, susnd sedimt (00689)
	Copper, water, unfltrd recover -able, μg/L (01042)	Iron, water, unfltrd recover -able, μg/L (01045)	Lead, water, unfltrd recover -able, μg/L (01051)	ese, water, unfltrd recover -able, μg/L (01055)	Mercury water, unfltrd recover -able, μg/L (71900)	Nickel, water, unfltrd recover -able, μg/L (01067)	Silver, water, unfltrd recover -able, μg/L (01077)	Zinc, water, unfltrd recover -able, μg/L (01092)	Arsenic water, filtrd, unfltrd recover -able, μg/L (01000)	Arsenic water, unfltrd recover -able, μg/L (01002)			
Nov 20...	--	--	--	--	--	--	--	--	--	--	--	--	.13
Feb 18...	<4.0	54	.11	14.7	<.010	.22	<.06	<2.0	.65	.62	22	.16	<.12
May 07...	--	--	--	--	--	--	--	--	--	--	--	--	1.52
Sep 01...	<4.0	149	.10	50.1	<.010	.45	<.06	<2.0	.81	.92	26	.15	.13

**WATER-QUALITY**  
**DATA**  
**WATER YEAR**  
**OCTOBER 2008 TO**  
**SEPTEMBER 2009**

Part 5 of 5

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

Date	Organic carbon, water, filtrd, mg/L (00681)
Nov 20...	2.1
Feb 18...	1.2
May 07...	4.4
Sep 01...	2.2