



Water-Data Report 2009

01411695 INDIAN RUN AT HUSTED STATION ROAD, AT PALATINE, NJ

MAURICE RIVER BASIN

LOCATION.--Lat 39°32'08", long 75°11'03" referenced to North American Datum of 1983, Pittsgrove Township, Salem County, NJ, Hydrologic Unit 02040206, at bridge on Husted Station Road, 0.3 mi upstream of Centerton Pond, and 1.2 mi south of Palatine.

DRAINAGE AREA.--7.49 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2005-09.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Date	Discharge, in ft ³ /s
Dec 1, 2008	3.91
Mar 9, 2009	4.59
Jun 2, 2009	2.39
Aug 11, 2009	1.40

01411695 INDIAN RUN AT HUSTED STATION ROAD, AT PALATINE, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--December 2008 to August 2009

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 17.

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: <, less than; E, estimated.]

Date	Time	Baro-metric pressure, mm Hg (00025)	Temper-ature, air, deg C (00020)	UV absorb-ance, 254 nm, wat flt units (50624)	UV absorb-ance, 280 nm, wat flt units (61726)	Instan-taneous dis-charge, ft³/s (00061)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, µS/cm @ 25 degC (00095)	Turbdty white light, wat unf 25 degC (00010)	Dis-solved solids dried @ 90+/-30 degC water, deg C (00010) NTRU (63676)
Dec												
01...	1000	750	10.3	.174	.135	3.9	6.7	56	6.4	228	8.2	2.5
Mar												
09...	1000	754	12.9	.115	.087	4.6	8.8	78	5.9	207	9.7	2.8
Jun												
02...	1000	760	24.0	.106	.082	2.4	6.8	68	6.5	206	15.9	2.5
Aug												
11...	1030	758	28.1	.112	.087	1.4	6.8	76	6.5	177	21.0	3.2

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

Part 2 of 5

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

Date	Dis-solved solids, sum of constituents, mg/L (70301)	Hard-ness, water, mg/L as CaCO ₃ (00900)	Sus-pended solids, water, unfltrd (00530)	Calcium water, fltrd, mg/L (00915)	Magnes-i um, 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 CaCO ₃ (90410)	Total carbon, suspnd sedimnt mg/L (00694)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Inor-ganic carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO ₂ (00955)
Dec													
01...	E126	74	1	17.3	7.53	3.79	8.03	17	.4	24.0	E.07	<.04	10.4
Mar													
09...	E113	64	2	14.9	6.59	2.84	7.98	13	.5	20.3	E.06	<.04	7.4
Jun													
02...	E116	70	1	16.8	6.76	2.57	6.18	19	.5	19.5	E.08	<.04	8.3
Aug													
11...	E104	59	5	14.4	5.47	2.96	6.25	21	.4	18.2	E.04	<.04	9.4

01411695 INDIAN RUN AT HUSTED STATION ROAD, AT PALATINE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 5

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

Date	Sulfate water, filtrd, mg/L (00945)	Ammonia + org-N, water, filtrd, mg/L (00623)	Ammonia water, filtrd, mg/L (00608)	Nitrate nitrite water, filtrd, mg/L (00631)	Ortho-phosphate, water, filtrd, mg/L (00671)	Particulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, filtrd, mg/L (00666)	Phos- phorus, water, unfltrd, mg/L (00665)	Total nitro- gen, water, filtrd, mg/L (00602)	Total nitro- gen, water, unfltrd, mg/L (00600)	Barium, water, recover- able, µg/L (01007)	Beryll- ium, water, recover- able, µg/L (01012)	Cadmium water, unfltrd, µg/L (01027)
Dec 01...	33.3	.40	.012	2.64	.012	.05	.013	.043	3.0	3.1	--	--	--
Mar 09...	25.7	.38	E.006	4.39	E.007	.07	.013	.025	4.8	4.8	72.0	.07	.11
Jun 02...	19.7	.39	.050	5.48	.020	.06	.018	.045	5.9	5.9	--	--	--
Aug 11...	14.8	.58	.031	4.46	.015	.06	.025	.057	5.0	5.1	77.0	.03	.06

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 5

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

Date	Chrom- ium, water, unfltrd recover- able, µg/L (01034)	Copper, water, unfltrd recover- able, µg/L (01042)	Iron, water, unfltrd recover- able, µg/L (01045)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- 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, µg/L (01000)	Arsenic, water, unfltrd, µg/L (01002)	Boron, water, unfltrd recover- able, µg/L (01022)	Selen- ium, water, unfltrd, µg/L (01147)
Dec 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 09...	E.27	<4.0	204	.24	29.6	<.010	1.9	<.06	12.1	.37	.47	E11	.48
Jun 02...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 11...	<.40	<4.0	355	.32	36.9	E.006	1.1	<.06	3.4	.66	.99	20	.29

01411695 INDIAN RUN AT HUSTED STATION ROAD, AT PALATINE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008
TO SEPTEMBER 2009

Part 5 of 5

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

Date	Organic carbon, Organic suspnd carbon, sedimnt water, total, fltrd, mg/L (00689)	Organic carbon, Organic suspnd carbon, sedimnt water, total, fltrd, mg/L (00681)
Dec		
01...	.39	5.5
Mar		
09...	.49	3.6
Jun		
02...	.45	2.7
Aug		
11...	.35	3.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 4

[Remark codes: <, less than.]

Date	Mois- ture, bed sed <2 mm, wsv nat fld dry percent (49282)	pH bed units (70310)	Total carbon, bed sedimnt total, g/kg (00693)	Inor- ganic carbon, bed sedimnt total, g/kg (00686)	Phos- phorus, bed sedimnt total, mg/kg (00668)	Cadmium bed sedimnt recover -able, as P (01028)	Chrom- ium, bed sedimnt recover -able, μg/g (01029)	Cobalt bed sedimnt recover -able, μg/g (01038)	Copper, bed sedimnt recover -able, μg/g (01043)	Iron, bed sedimnt digest, total μg/g (01170)	Lead, bed sedimnt recover -able, μg/g (01052)	Mangan- ese, bed sedimnt recover -able, μg/g (01053)	Mercury bed sedimnt recover -able, μg/g (71921)
Aug 11...	19	5.95	.4	<.2	40	.040	1.6	.6	<2	960	4.5	22	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 4

[Remark codes: <, less than.]

Date	Nickel, bed sedimnt recover -able, μg/g (01068)	Zinc, bed sedimnt recover -able, μg/g (01093)	Arsenic bed sedimnt recover -able, μg/g (64847)	Selen- ium, bed sedimnt recover -able, μg/g (64848)	p- Cresol, bed sed wsn nat field, μg/kg (49451)	1,2-Di- methyl- PCBs, bed sedimnt <2 mm, μg/kg (39519)	1,6-Di- methyl- naphth- alene, bed sed bed sed bed sed <2 mm, μg/kg (49403)	1Methyl- naphth- alene, bed sed bed sed bed sed <2 mm, μg/kg (49404)	1- 9H- fluor- ene, bed sed bed sed bed sed <2 mm, μg/kg (49398)	1- Methyl- phenan- threne, bed sed bed sed bed sed <2 mm, μg/kg (49410)	236Tri- methyl- naphth- alene, bed sed bed sed bed sed <2 mm, μg/kg (49388)	2,6-Di- methyl- naphth- alene, bed sed bed sed bed sed <2 mm, μg/kg (49405)	
Aug 11...	.8	7.6	.4	<.1	<50	<5.00	<50	<50	<50	<50	<50	<50	<50

01411695 INDIAN RUN AT HUSTED STATION ROAD, AT PALATINE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 4

[Remark codes: <, less than.]

Date	2-Ethyl naphth- alene <2 mm wsv nat	2-Methyl- anthra- cene, bed sed <2 mm bs <2mm	4H-Cyc- lopenta - [def]- phenan- threne, <2 mm, wsv nat	9H- Fluor- ene, bed sed <2 mm, wsv nat	Ace- naphth- ene, bed sed <2 mm, wsv nat	Ace- naphth- ylene, bed sed <2 mm, wsv nat	Anthra- cene, bed sed <2 mm, field,	Benzo- [a]- anthra- cene, bed sed <2 mm, wsv nat	Benzo- [a]- pyrene, bed sed <2 mm, wsv nat	Benzo- [b]- fluor- anthene, bed sed <2 mm, bed sed	Benzo- [ghi]- peryl- ene, bed sed <2 mm, bed sed	Benzo- [k]- fluor- anthene, bed sed <2 mm, wsv nat	Chry- sene, bed sed <2 mm, field,
	μg/kg (49948)	μg/kg (49435)	μg/kg (49411)	μg/kg (49399)	μg/kg (49429)	μg/kg (49428)	μg/kg (49434)	μg/kg (49436)	μg/kg (49389)	μg/kg (49458)	μg/kg (49408)	μg/kg (49397)	μg/kg (49450)
Aug 11...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 4

[Remark codes: <, less than.]

Date	Dibenzo- -[a,h]- anthra- cene, bed sed <2 mm, wsv nat	Fluor- anthene bed sed	Indeno- [1,2,- 3-cd]- pyrene, bed sed	Iso- phorone bed sed	Naphth- alene, bed sed <2 mm, wsv nat	Phenan- threne, bed sed <2 mm, wsv nat	Phenan- threne, bed sed <2 mm, wsv nat	Pyrene, bed sed <2 mm, wsv nat	Bed sediment dry svd sve dia percent <0.0625 mm
	μg/kg (49461)	μg/kg (49466)	μg/kg (49390)	μg/kg (49400)	μg/kg (49402)	μg/kg (49409)	μg/kg (49393)	μg/kg (49387)	μg/kg (80164)
Aug 11...	<50	<50	<50	<50	<50	<50	<50	<50	0.0