

**ALTAMAHA RIVER BASIN  
2004 Water Year**

**02207385 BIG HAYNES CREEK AT LENORA ROAD, NEAR SNELLVILLE, GA**

**LOCATION.**—Lat 33°48'54", long 83°59'25" referenced to North American Datum (NAD) of 1927, Gwinnett County, Hydrologic Unit 03070103, and 5.5 miles southeast of Snellville.

**DRAINAGE AREA.**—17.3 square miles.

**COOPERATION.**—Gwinnett County Department of Public Utilities, Rockdale County Department of Water Resources

**PERIODIC WATER-QUALITY RECORDS**

**PERIOD OF RECORD.**—March 12, 1996 to current year.

**REMARKS.**— Hydrologic event 9 indicates a routine sample while J designates a storm event sample. Laboratory chemical analyses with analyzing agency code 81213 are by the U.S. Geological Survey, Ocala Water Quality Laboratory. Laboratory chemical analyses with analyzing agency code 80855 are by the Severn-Trent Laboratory, Denver, CO. Laboratory sediment analyses are by the U.S. Geological Survey, Sediment Partitioning Research Laboratory. Field determinations of discharge, specific conductance, pH, water temperature, turbidity, and dissolved oxygen are by the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	End time	Hydro-logic event	Agency ana-lyzing sample, code (00028)	Instan-taneous dis-charge, cfs (00061)	Gage height, feet (00065)	Color, water, fltrd, Pt-Co units (00080)	Turbdty white light, det ang 90 degrees NTU (63675)	Turbdty white light, det ang 90 corrctd NTRU (63676)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, high level, water, unfltrd mg/L (00340)	Calcium water, fltrd, mg/L (00915)	Hard-ness, water, mg/L as CaCO3 (00900)
OCT													
06...	1215	--	9	81213	14	3.04	20	--	4.6	<.1	8	3.10	11
OCT													
26-26	1420	1920	J	81213	--	--	40	--	400	8.3	23	2.40	8
NOV													
18-19	2346	0606	J	81213	--	--	150	--	540	3.8	21	2.10	7
DEC													
02...	1600	--	9	81213	20	3.17	50	--	11	.6	10	3.40	12
JAN													
05-05	1602	2232	J	81213	--	--	80	--	190	2.4	9	2.60	9
FEB													
12-12	0434	0742	J	81213	--	--	E200	--	370	2.2	9	2.40	8
MAR													
04...	0945	--	9	81213	23	3.22	60	--	10	E.4	5	3.30	12
25...	1110	--	9	81213	20	3.16	30	--	8.4	.5	<5	2.90	10
MAY													
22-23	1518	0922	J	81213	--	--	E80	--	71	--	20	2.80	10
26...	1235	--	9	81213	12	2.98	45	--	7.0	.5	<5	2.30	8
JUN													
22-23	2228	1100	J	81213	--	--	240	--	220	3.9	9	2.70	9
JUL													
12...	1110	--	9	81213	10	2.92	20	--	6.2	.4	<5	3.70	13
JUL													
26-26	0059	0518	J	80855	--	--	--	250	390	7.0	E11	2.10	10
SEP													
07-07	0509	0836	J	80855	--	--	--	380	650	5.4	E15	1.60	14

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**02207385 BIG HAYNES CREEK AT LENORA ROAD, NEAR SNELLVILLE, GA—continued.**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Magnesium, water, fltrd, mg/L (00925)	Magnesium, water, recoverable, mg/L (00927)	Loss on ignition, from ROE, wat unf mg/L (00505)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Residue volatile, suspended, mg/L (00535)	Nitrite nitrate fltrd, mg/L as N (00631)	Nitrite nitrate water unfltrd mg/L as N (00630)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia org-N, water, unfltrd mg/L as N (00625)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Cadmium water, unfltrd ug/L (01027)
OCT 06...	.74	.87	--	40	3	2	.87	.850	A.030	.20	<.02	<.02	<.5
OCT 26-26	.57	1.30	--	33	463	75	.76	.750	A.059	2.0	.02	.26	<.5
NOV 18-19	.51	1.40	--	31	610	91	.53	.540	A.030	2.1	<.02	.28	<.5
DEC 02...	.83	.86	--	55	3	1	.88	.880	A.083	.20	<.02	<.02	<.5
JAN 05-05	.61	.96	--	32	182	28	.70	.700	.080	1.3	<.02	.15	<.5
FEB 12-12	.58	1.30	--	29	351	49	.72	.720	A.095	1.0	<.02	.20	<.5
MAR 04...	.82	.87	--	45	8	3	1.00	1.00	A.067	<.20	<.02	<.02	<.5
MAR 25...	.76	.85	--	46	2	1	.92	.930	A.045	<.20	<.02	<.02	<.5
MAY 22-23	.66	.94	--	52	69	10	.83	.830	A.079	.80	<.02	.05	<.5
MAY 26...	.53	.94	--	50	5	3	.80	.800	A.057	.40	<.02	<.02	<.5
JUN 22-23	.61	.86	--	36	198	36	.63	.650	A.080	.90	<.02	.15	<.5
JUL 12...	.88	.85	--	46	4	2	.84	.820	A.055	<.20	<.02	<.02	<.5
JUL 26-26	.52	.7	28	57	520	100	.640	.610	.160	1.7	E.025	.180	<5.0
SEP 07-07	.35	1.7	--	70	730	98	.270	.260	.130	1.4	<.050	.083	<5

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Chromium, water, unfltrd recoverable, ug/L (01034)	Copper, water, unfltrd recoverable, ug/L (01042)	Iron, water, unfltrd recoverable, ug/L (01046)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, unfltrd recoverable, ug/L (01055)	Zinc, water, unfltrd recoverable, ug/L (01092)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
OCT 06...	<1	<2	--	661	<2	133	3	--	4
OCT 26-26	2	4	188	11200	16	1730	59	54	562
NOV 18-19	3	4	--	11100	22	1330	62	36	961
DEC 02...	<1	<2	--	699	<2	170	5	79	6
JAN 05-05	1	<2	94	5900	8	495	26	54	332
FEB 12-12	3	3	--	6710	13	496	37	41	785
MAR 04...	<1	<2	--	641	<2	132	6	--	7
MAR 25...	<1	<2	45	523	<2	135	4	--	4
MAY 22-23	<1	<2	--	2260	3	313	13	61	76
MAY 26...	<1	<2	--	764	<2	164	4	--	5
JUN 22-23	1	<2	100	3290	7	374	20	89	206
JUL 12...	<1	<2	--	648	<2	216	4	--	4
JUL 26-26	<10	M	--	6400	M	1300	40	88	471
SEP 07-07	E9	M	--	19000	M	1200	580	32	2240

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**02207385 BIG HAYNES CREEK AT LENORA ROAD, NEAR SNELLVILLE, GA—continued.**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Hydro- logic event	Instan- taneous dis- charge, cfs (00061)	Gage height, feet (00065)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Organic carbon, water, unfltrd mg/L (00680)	Chloro- phyll a phyto- plank- ton, fluoro, ug/L (70953)	Chloro- phyll b phyto- plank- ton, fluoro, ug/L (70954)
OCT								
16...	0800	9	--	3.14	270	2.1	E1.5	<.1
NOV								
12...	1220	9	--	3.10	140	3.6	E1.3	<.1
DEC								
10...	1220	9	--	3.68	E710	7.4	--	--
JAN								
21...	0940	9	18	3.14	E44	2.9	--	--
FEB								
17...	1105	9	45	3.46	58	2.4	--	--
MAR								
17...	1240	9	20	3.17	70	1.6	--	--
MAY								
26...	0750	9	12	2.98	E260	2.9	--	--
JUN								
23...	1150	9	21	3.18	>400	4.5	--	--
JUL								
19...	1040	9	10	2.94	150	2.6	--	--
AUG								
03...	1045	9	10	2.94	<1	3.1	--	--
SEP								
17...	1230	9	167	4.33	E4800	7.8	--	--

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## 02207385 BIG HAYNES CREEK AT LENORA ROAD, NEAR SNELLVILLE, GA—continued.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Hydro-logic event	Location in X-sect. looking downstrm 1 bank (00009)	Instantaneous discharge, cfs (00061)	Gage height, feet (00065)	Dissolved oxygen, percent of saturation (00301)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Turbidity, IR LED light, det ang 90 deg, FNU (63680)	Suspnd. sediment, sieve diametr <.063mm (70331)	Suspended sediment concentration mg/L (80154)
OCT													
06...	1219	9	7.00	14	3.04	96	8.9	6.5	62	17.9	9.9	--	--
06...	1220	9	14.0	14	3.04	96	8.9	6.5	62	17.9	5.8	--	--
06...	1221	9	21.0	14	3.04	96	8.9	6.5	58	18.2	5.8	--	--
26...	1525	J	5.00	72	3.67	91	8.7	6.8	61	16.8	160	--	--
26...	1526	J	15.0	72	3.67	88	8.4	6.7	61	16.8	250	--	--
26...	1527	J	25.0	72	3.67	89	8.3	6.7	50	17.6	140	--	--
NOV													
19...	0849	J	6.00	176	4.18	91	8.5	6.2	45	16.8	200	50	243
19...	0850	J	14.0	176	4.18	91	8.6	6.3	45	16.6	210	38	245
19...	0851	J	22.0	176	4.18	91	8.6	6.3	45	16.5	180	33	276
DEC													
02...	1609	9	13.0	20	3.16	98	10.7	6.2	60	10.6	12	--	--
02...	1610	9	19.0	20	3.16	98	10.7	6.2	60	10.6	12	--	--
02...	1611	9	25.0	20	3.16	98	10.7	6.2	60	10.6	14	--	--
JAN													
06...	1022	J	19.0	32	3.34	107	12.7	6.8	52	8.6	36	--	--
06...	1023	J	12.0	32	3.34	107	12.6	6.8	56	8.9	31	--	--
06...	1024	J	5.00	32	3.34	108	12.6	6.8	57	9.0	32	--	--
21...	0931	9	11.7	19	3.15	110	13.6	6.7	62	5.1	--	--	--
21...	0932	9	15.1	19	3.15	110	13.6	6.5	62	5.2	--	--	--
21...	0933	9	18.5	19	3.15	107	13.3	6.4	62	5.2	--	--	--
21...	0934	9	21.9	19	3.15	106	13.1	6.4	62	5.2	--	--	--
21...	0935	9	25.3	19	3.15	112	13.8	6.4	60	5.3	--	--	--
21...	1036	9	28.7	19	3.15	112	13.8	6.4	60	5.4	--	--	--
21...	1037	9	32.1	19	3.15	115	14.0	6.3	55	5.7	--	--	--
FEB													
12...	0957	J	5.00	207	4.31	44	5.2	6.5	27	7.0	260	--	--
12...	0958	J	15.0	207	4.31	46	5.4	6.5	37	6.9	230	--	--
12...	0959	J	25.0	207	4.31	47	5.5	6.5	36	7.0	240	--	--
MAR													
04...	0949	9	7.00	23	3.22	94	9.7	6.0	59	13.8	14	--	--
04...	0950	9	14.0	23	3.22	94	9.7	6.0	59	13.8	13	--	--
04...	0951	9	21.0	23	3.22	94	9.7	6.0	59	13.9	12	--	--
17...	1236	9	5.00	19	3.15	105	10.4	6.8	61	14.4	12	--	--
17...	1237	9	17.0	19	3.15	105	10.4	6.8	61	14.4	12	--	--
17...	1238	9	29.0	19	3.15	105	10.4	6.7	61	14.5	12	--	--
25...	1114	9	8.00	20	3.16	95	10.0	6.7	61	12.8	13	--	--
25...	1115	9	18.0	20	3.16	95	9.9	6.7	61	12.9	5.4	--	--
25...	1116	9	28.0	20	3.16	87	9.1	6.7	60	13.0	6.2	--	--
MAY													
22...	1604	J	21.0	41	3.42	88	8.0	5.9	51	20.4	170	--	--
22...	1605	J	18.0	41	3.42	86	7.7	5.8	49	20.6	190	--	--
22...	1606	J	15.0	41	3.42	86	7.6	6.0	47	21.2	230	--	--
22...	1607	J	9.00	41	3.42	86	7.6	6.0	46	21.2	240	--	--
22...	1608	J	3.00	43	3.44	88	7.7	5.9	47	21.2	180	--	--
26...	0751	9	5.00	12	2.98	101	8.7	7.4	63	21.0	11	--	--
26...	0752	9	10.0	12	2.98	101	8.7	7.0	63	21.0	12	--	--
26...	0753	9	15.0	12	2.98	102	8.8	6.9	63	21.0	13	--	--
26...	1244	9	5.00	12	2.98	90	7.7	6.4	58	22.8	7.2	--	--
26...	1245	9	10.0	12	2.98	90	7.7	6.4	58	22.9	6.7	--	--
26...	1246	9	15.0	12	2.98	90	7.7	6.3	58	22.9	6.9	--	--
JUN													
23...	1008	J	8.00	21	3.19	88	7.5	6.7	53	22.5	49	--	--
23...	1009	J	16.0	21	3.19	88	7.5	6.7	53	22.5	63	--	--
23...	1010	J	24.0	21	3.19	88	7.5	6.7	53	22.5	78	--	--

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**02207385 BIG HAYNES CREEK AT LENORA ROAD, NEAR SNELLVILLE, GA—continued.**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Hydro- logic event	Loca- tion in X-sect. looking dwnstrm ft from l bank (00009)	Instan- taneous dis- charge, cfs (00061)	Gage height, feet (00065)	Dis- solved oxygen, percent of sat- uration (00301)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Turb- idity, IR LED light, det ang 90 deg, FNU (63680)
JUL											
12...	1129	9	5.00	10	2.92	91	7.7	6.6	60	23.3	5.0
12...	1130	9	10.0	10	2.92	91	7.7	6.6	60	23.3	4.0
12...	1131	9	15.0	10	2.92	91	7.7	6.6	60	23.3	4.0
19...	1040	9	10.0	10	2.94	98	8.2	6.9	62	22.1	4.5
19...	1041	9	2.00	10	2.94	98	8.3	7.2	63	22.1	3.5
19...	1042	9	6.00	10	2.94	98	8.3	6.9	62	22.1	5.1
19...	1043	9	10.0	10	2.94	98	8.2	6.9	63	22.1	5.0
19...	1044	9	14.0	10	2.94	98	8.2	6.9	62	22.1	4.5
19...	1045	9	18.0	10	2.94	98	8.2	6.9	62	22.1	4.5
26...	0124	J	5.00	102	3.84	91	7.7	6.7	46	22.8	450
26...	0125	J	10.0	102	3.84	90	7.6	6.6	44	22.8	470
26...	0126	J	15.0	102	3.84	88	7.4	6.6	41	22.9	580
AUG											
03...	1045	9	11.0	10	2.94	93	8.0	6.8	61	23.3	11
03...	1046	9	2.20	10	2.94	93	8.0	6.9	61	23.2	11
03...	1047	9	6.60	10	2.94	93	8.0	6.9	61	23.3	11
03...	1048	9	11.0	10	2.94	93	8.0	6.8	61	23.3	12
03...	1049	9	15.4	10	2.94	93	8.0	6.8	61	23.3	9.0
03...	1050	9	19.8	10	2.94	86	7.3	6.8	62	23.4	9.4
SEP											
07...	1138	J	25.0	448	5.39	84	7.3	6.0	38	22.4	300
07...	1139	J	15.0	448	5.39	83	7.2	5.9	38	22.3	310
07...	1140	J	5.00	448	5.39	82	7.2	5.9	38	27.2	330

Remark codes used in this table:

- < -- Less than
- > -- Greater than
- A -- Average value
- E -- Estimated value
- M -- Presence verified, not quantified