02207387 BIG HAYNES CREEK NEAR LOGANVILLE, GA

Altamaha Basin
Upper Ocmulgee Subbasin

LOCATION.--Lat 33°47′35″, long 83°58′51″ referenced to North American Datum of 1983, Gwinnett County, GA, Hydrologic Unit 03070103.

DRAINAGE AREA.--20.7 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2004 to January 2007, April 2011 to current.

REMARKS.--Medium code WS is a surface water sample. Hydrologic condition codes represent the stage present during the sample; 9 is for normal, stable stage, 8 is rising, and 5 is a falling stage. Hydrologic event code 9 is for a routine sample. Laboratory chemical analyses are by the U.S. Geological Survey, National Water Quality Laboratory, Denver, CO. Laboratory sediment analyses are by the U.S. Geological Survey, Sediment Partitioning Research Laboratory, Atlanta, GA. Field determinations of discharge, specific conductance, pH, water temperature, dissolved oxygen, barometric pressure and turbidity are by the U.S. Geological Survey. Bacteria samples were processed by U.S. Geological Survey Georgia Water Science Center field personnel.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 1 of 5

[FNU, Formazin nephelometric units; LED, light-emitting diode; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; 9, Routine sample; <, less than; E, estimated; M, presence verified but not quantified; EST, Eastern Standard Time]

Date	Sample start time	Sample time datum	Hydrologic event cd	Barometric pressure, mm Hg (00025)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, monochrome near infrared LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)
10-18-2011	**0915**	EST	9	736	8.5	6.7	66	14.3	2.5
11-30-2011	**0915**	EST	9	743	10.0	6.8	62	9.2	3.8
12-12-2011	**0940**	EST	9	750	10.9	6.6	65	7.9	3.3
01-30-2012	**0945**	EST	9	753	11.2	6.4	65	7.0	11
02-27-2012	**1315**	EST	9	--	10.6	7.0	67	10.6	4.8
03-20-2012	**1125**	EST	9	744	9.0	6.7	67	18.8	5.7
04-17-2012	**0845**	EST	9	748	8.8	7.1	68	16.4	3.8
05-24-2012	**1020**	EST	9	--	8.1	7.0	66	19.3	4.8
06-20-2012	**0920**	EST	9	744	7.7	7.0	68	19.7	3.9
07-10-2012	**0930**	EST	9	746	6.5	7.0	74	23.2	4.0
08-16-2012	**0820**	EST	9	742	7.8	7.0	61	21.8	2.6
09-17-2012	**0755**	EST	9	740	7.5	6.6	66	20.2	2.7

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 02207387, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/02207387.2012.pdf

02207387 BIG HAYNES CREEK NEAR LOGANVILLE, GA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
Part 2 of 5

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Date	Sample start time	Gage height, ft (00065)	Sampler type (84164)	Biochemical oxygen demand, water, unfiltered, 5 days at 20°C, mg/L (00310)	Chemical oxygen demand, high level, water, unfiltered, milligrams per liter (00340)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, unfiltered, recoverable, mg/L (00916)	Magnesium, water, filtered, mg/L (00925)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)
10-18-2011	**0915**	3.45	Grab sample	3.0	< 10	47	5	3.99	1.10	0.18
11-30-2011	**0915**	3.90	US DH-81	E 2.2	< 10	--	2	3.38	.994	.24
12-12-2011	**0940**	--	US DH-81	12	< 10	47	2	3.72	1.04	.15
01-30-2012	**0945**	--	US DH-81	< 2.4	< 10	38	3	3.8	1.00	.28
02-27-2012	**1315**	--	US DH-81	< 2.4	< 10	54	2	3.65	.997	.20
03-20-2012	**1125**	--	US DH-81	E 1.9	10	49	E 7	3.92	1.10	.18
04-17-2012	**0845**	--	Grab sample	E 2.4	< 10	41	6	3.93	1.12	.19
05-24-2012	**1020**	3.96	US DH-81	E 2.4	10	45	9	3.91	1.08	.27
06-20-2012	**0920**	--	US DH-81	E 2.4	< 10	55	E 6	4.25	1.11	.21
07-10-2012	**0930**	--	US DH-81	E 2.4	10	47	21	4.94	1.33	.40
08-16-2012	**0820**	3.40	Grab sample	--	< 10	47	E 5	3.49	.964	.18
09-17-2012	**0755**	4.26	US DH-81	E 2.4	< 10	44	< 3	4.01	1.06	.18

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
Part 3 of 5

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Date	Sample start time	Ammonia, water, filtered, mg/L as NH4 (71846)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Organic nitrogen, water, unfiltered, mg/L (00605)	Orthophosphate, water, filtered, mg/L (00660)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)
10-18-2011	**0915**	< .013	< .010	0.523	< .18	0.016	0.005	0.006	0.027
11-30-2011	**0915**	.028	.022	.445	.21	.014	.005	.007	.014
12-12-2011	**0940**	.025	.019	.746	.13	.013	.004	.005	.009
01-30-2012	**0945**	.067	.052	.799	.23	.015	.005	.008	.023
02-27-2012	**1315**	.027	.021	.896	.17	.013	.004	.006	.013
03-20-2012	**1125**	.027	.021	.772	.16	.012	.004	.006	.018
04-17-2012	**0845**	.041	.032	.806	.16	.022	.007	.011	.018
05-24-2012	**1020**	.018	.014	.589	.25	.013	.004	.010	.016
06-20-2012	**0920**	.017	.013	.561	.20	.018	.006	.009	.016
07-10-2012	**0930**	.028	.022	.224	.38	< .012	< .004	.011	.039
08-16-2012	**0820**	.021	.016	.529	.17	.020	.007	.012	.018
09-17-2012	**0755**	< .013	< .010	.537	< .18	.014	.005	.008	.014

02207387 BIG HAYNES CREEK NEAR LOGANVILLE, GA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 4 of 5

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Date	Sample start time	Total nitrogen, water, unfiltered, mg/L (00600)	Escherichia coli, Defined Substrate Technology, water, MPN/100 mL (50468)	Fecal coliform, M-FC MF (0.7 micron) method, water, col/100 mL (31625)	Total coliform, Defined Substrate Technology, water, MPN/100 mL (50569)	Cadmium, water, unfiltered, µg/L (01027)	Copper, water, unfiltered, recoverable, µg/L (01042)	Lead, water, unfiltered, recoverable, µg/L (01051)	Zinc, water, unfiltered, recoverable, µg/L (01092)	Organic carbon, water, unfiltered, mg/L (00680)
10-18-2011	**0915**	0.70	280	190	2,500	0.032	14.0	0.51	2.2	2.3
11-30-2011	**0915**	.68	2,800	96	570	< .016	< .70	.21	2.5	3.1
12-12-2011	**0940**	.90	230	180	1,200	< .016	< .70	.16	< 2.0	1.6
01-30-2012	**0945**	1.1	130	92	2,600	< 0.016	< 0.7	M	M	2.5
02-27-2012	**1315**	1.1	210	180	2,100	< .016	< .70	.25	< 2.0	2.4
03-20-2012	**1125**	.95	140	160	4,300	< .016	< .70	.31	3.0	2.5
04-17-2012	**0845**	1.0	420	250	5,700	< .016	< .70	.20	< 2.0	2.2
05-24-2012	**1020**	.86	260	160	3,100	< .016	< .70	.28	3.7	2.4
06-20-2012	**0920**	.77	280	200	10,000	< .016	< .70	.25	2.8	2.1
07-10-2012	**0930**	.63	92	74	3,800	< .016	< .70	.57	3.4	3.6
08-16-2012	**0820**	.71	230	260	4,800	< .016	7.5	.22	< 2.0	2.5
09-17-2012	**0755**	.71	370	290	15,000	< .016	< .70	.11	< 2.0	2.6

02207387 BIG HAYNES CREEK NEAR LOGANVILLE, GA—Continued

WATER-QUALITY DATA
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Part 5 of 5

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Date	Sample start time	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concen-tration, mg/L (80154)
10-18-2011	**0915**	56	11
11-30-2011	**0915**	83	2
12-12-2011	**0940**	69	5
01-30-2012	**0945**	96	8
02-27-2012	**1315**	93	5
03-20-2012	**1125**	20	45
04-17-2012	**0845**	78	9
05-24-2012	**1020**	76	5
06-20-2012	**0920**	53	11
07-10-2012	**0930**	66	21
08-16-2012	**0820**	63	8
09-17-2012	**0755**	75	6