

ALTAMAHA RIVER BASIN
2004 Water Year

02207220 YELLOW RIVER AT PLEASANT HILL ROAD, NEAR LITHONIA, GA

LOCATION.—Lat 33°44'01", long 84°03'43" referenced to North American Datum (NAD) of 1927, DeKalb County, Hydrologic Unit 03070103, 0.3 miles north of Johnson Creek confluence, 1.6 miles east of GA 124, .8 miles west of DeKalb/Rockdale County line.

DRAINAGE AREA.—213 square miles.

COOPERATION.—Rockdale County Department of Water Resources.

PERIOD OF RECORD.—December 11, 2002, to current year.

PERIODIC WATER QUALITY RECORDS

REMARKS.— Medium code 9 indicates a surface water sample and medium code 1 indicates a suspended sediment sample. Hydrologic condition 9 indicates baseflow, 8 indicates rising stage, 5 indicates falling stage, and 4 indicates low stable stage. Hydrologic condition X, indicates not applicable, and is applied to samples with more than one hydrologic condition represented. Sample type 9 indicates a routine sample, and H indicates a composite sample taken by an automatic sampler. Hydrologic event 9 indicates a routine sample, and J indicates runoff due to a storm event. Sampler type code 3044 represents a DH-81, 3052 represents a DH-95 with a plastic bottle, and 4115 represents an automatic point sampler. Sampling method code 10 indicates Equal-Width-Increment, and 50 indicates point sample. Laboratory chemical analyses with analyzing agency code 80020 are by the U.S. Geological Survey, National Water Quality Laboratory. Laboratory chemical analysis of Biological Oxygen Demand (BOD-5) during the period of October through September analyzed by the US Geological Survey, Ocala Water-Quality Laboratory. Biological Oxygen Demand samples collected during the period of September to current water year were analyzed by Severn-Trent Laboratories, Inc.-Denver, and stored under analyzing agency code 80855. Laboratory sediment analyses are by the U.S. Geological Survey, Sediment Partitioning Research Laboratory. Field determinations of discharge, specific conductance, pH, water temperature, dissolved oxygen, and turbidity are by the U.S. Geological Survey.

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

Date	Time	End time	Medium code	Hydro-logic condition	Sample type	Hydro-logic event	Sampler type, code (84164)	Sam-pling method, code (82398)	Agency ana-lyzing sample, code (00028)	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Turb-idity, IR LED light, det ang 90 deg, FNU (63680)	pH, water, unfltrd field, std units (00400)
OCT													
30...	1045	--	9	9	9	9	3052	10	80020	2.82	263	10	7.2
DEC													
10-11	0800	0915	9	X	H	J	4115	50	80020	--	--	130	7.0
15...	1000	--	9	5	9	9	3052	10	80020	4.67	516	49	7.1
JAN													
20...	1015	--	9	5	9	9	3052	10	80020	2.91	252	12	7.1
25-26	0635	1305	9	X	9	J	4115	50	80020	--	--	200	6.9
FEB													
12...	1030	--	9	8	9	J	3052	10	80020	6.99	1240	110	6.6
MAR													
18...	1230	--	9	9	H	9	3070	10	80020	2.69	242	9.0	7.1
APR													
06...	0900	--	9	9	9	9	3052	10	80020	2.39	193	6.2	7.4
MAY													
02-02	0130	1700	9	X	H	J	4115	50	80020	--	--	230	7.1
03...	1220	--	9	5	9	9	3052	10	80020	4.49	578	53	7.1
JUN													
21-23	1725	1050	9	X	H	J	4115	50	80020	--	--	--	--
22...	1010	--	9	5	9	9	3070	10	80020	2.99	295	35	7.3
28...	1145	--	9	5	H	9	3052	10	80020	7.72	1470	290	6.4
JUL													
19...	0815	--	9	5	9	9	3054	10	80020	2.50	180	21	7.1
AUG													
04...	0730	--	9	9	H	9	3052	10	80020	2.03	114	14	7.4
09...	0920	--	9	9	9	9	3070	10	80020	1.97	106	9.7	6.5
12-13	0940	0500	9	X	H	J	4115	50	80020	--	--	440	7.0
16...	0850	--	9	9	9	9	3044	10	80020	2.49	208	21	7.3
26...	0830	--	9	4	H	9	3052	10	80020	3.02	300	18	7.5
SEP													
16-18	1530	0655	9	X	H	J	4115	50	80020	--	--	210	7.7
16-18	1531	0656	9	X	H	J	4115	50	80855	--	--	210	7.7
16-18	1532	0657	1	X	H	J	4115	50	81350	--	--	210	7.7

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

Date	Ammonia water, fltrd, mg/L (71846)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Organic nitro- gen, water, unfltrd mg/L (00605)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, water, unfltrd mg/L (00600)	Cadmium water, fltrd, ug/L (01025)	Copper, water, fltrd, ug/L (01040)	Lead, water, fltrd, ug/L (01049)	Zinc, water, fltrd, ug/L (01090)	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													
30...	.04	1.05d	.26	<.006	.022	1.3	--	1.1	E.06n	2.5	4.2	--	--
DEC													
10-11	--	--	--	--	--	--	<.04	1.0	.10	3.4	7.7	--	--
15...	.12	.956	.33	<.006	.046	1.4	--	.8	.08	3.2	3.3	2.0d	<.1d
JAN													
20...	.05	1.32d	.20	<.006	.016	1.6	--	.8	<.08	3.6	2.5	E.7d	<.1d
25-26	.11	.819	.74	<.006	.145	1.6	<.04	13.7	E.07n	2.4	8.0	--	--
FEB													
12...	.08	.944	.51	<.006	.111	1.5	<.04	.7	E.06n	1.1	5.3	E2.4	E.4
MAR													
18...	.01	1.28d	.26	<.006	.027	1.5	<.04	1.2	E.08n	3.5	3.6	9.3d	<.1d
APR													
06...	.02	1.45	.24	<.006	.016	1.7	--	.8	E.06n	4.0	2.8	.8d	<.1d
MAY													
02-02	.03	.959	1.5	<.006	.31oc	2.5	<.04	.9	.08	3.5	17.0	--	--
03...	.07	.662	.51	<.006	.087	1.2	--	1.0	E.05n	2.1	6.5	2.7d	.5d
JUN													
21-23	.05	.933	.63	<.006	.107	1.6	<.04c	1.3c	E.07nc	13.7c	7.9	--	--
22...	.04	1.59d	.37	<.006	.042	2.0	--	1.2	E.06n	4.1	4.8	<.1d	<.1d
28...	.06	.463	1.2	<.006	.23oc	1.7	<.04	1.3	E.06n	1.3	17.8	E3.0d	E.7d
JUL													
19...	.03	1.19d	.29	<.006	.029	1.5	--	1.1	<.08	2.1	3.9	2.2d	E.3d
AUG													
04...	.04	1.74d	.31	<.006	.028	2.1	--	1.1	E.07n	5.3	3.7	2.1d	E.2d
09...	.06	1.47d	.32	<.006	.024	1.8	--	1.2	.14	5.8	3.6	1.4d	E.3d
12-13	.05	.711	1.2	<.006	.18oc	1.9	<.04	1.6	E.07n	2.5	13.2	--	--
16...	.04	.959	.30	<.006	.031	1.3	--	1.9	.23	2.7	4.3	3.4d	E.6d
26...	.03	2.37d	.39	<.006	.033	2.8	E.02n	1.3	.11	7.9	4.0	--	--
SEP													
16-18	--	.505	--	<.006	.17oc	1.5	<.04	4.2	.14	2.1	10.9	--	--

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

Date	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)
OCT			
30...	6	4.1	67
DEC			
10-11	162	--	46
15...	20	32	74
JAN			
20...	10	6.7	57
25-26	272	--	46
FEB			
12...	136	454	59
MAR			
18...	67	49	6
APR			
06...	5	2.9	73
MAY			
03...	59	86	72
JUN			
28...	300	1190	60
JUL			
19...	17	9.9	92
AUG			
04...	19	8.8	89
09...	11	4.9	96
16...	17	11	83
26...	22	18	89
SEP			
16-18	--	--	--
16-18	--	--	--
16-18	771	--	33

Remark codes used in this table:

< -- Less than
E -- Estimated value

Value qualifier codes used in this table:

c -- See laboratory comment
d -- Diluted sample: method hi range exceeded
n -- Below the LRL and above the LT-MDL
o -- Result determined by alternate method