Water-Data Report 2010

07350500 Red River at Coushatta, LA

Red-Saline Basin
Middle Red-Coushatta Subbasin

LOCATION.--Lat 32°00′45″, long 93°21′10″ referenced to North American Datum of 1927, Red River Parish, LA, Hydrologic Unit 11140202, at bridge on U.S. Highway 84 at Coushatta, 11.0 mi downstream from Coushatta Bayou, and at mile 242.4.

DRAINAGE AREA.--63362.00 mi^2.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-1976, 1987 to current year.

REMARKS.--Water-quality samples are non-integrated and collected from center span of bridge.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 6

[CaCO3, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO2, silicon dioxide; col/100 mL, colonies per 100 milliliters; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Color, water, filtered, platinum cobalt units (00080)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conduc-tance, water, unfiltered, µS/cm at 25 °C (00095)	Tempera-ture, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Chemical oxygen demand, high level, water, unfiltered, milligrams per liter (00340)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)
11-04-2009	1330	200	7.1	7.0	142	14.8	79	20	111
12-02-2009	1400	100	8.3	7.6	308	14.6	36	20	213
01-06-2010	1330	100	11.4	6.9	192	6.8	100	20	123
02-03-2010	1410	100	11.2	7.1	279	8.9	100	20	190
03-03-2010	1345	100	11.2	7.1	314	9.5	E 59	10	190
04-07-2010	1415	50	8.6	7.4	405	20.6	38	20	241
05-05-2010	1330	30	9.3	7.8	570	25.6	E 18	30	347
06-08-2010	1345	75	6.4	7.4	397	30.1	E 20	20	229
07-06-2010	1125	30	6.7	8.0	886	30.5	E 7.3	20	521
08-05-2010	1055	35	6.8	8.0	1,340	32.0	E 9.5	20	785
09-09-2010	1035	40	4.7	8.1	1,300	29.1	E 7.6	20	751

07350500 Red River at Coushatta, LA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 6

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Date	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magne-sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO3 (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Carbonate, water, filtered, inflection-point incremental titration method, field, mg/L (00452)	Chloride, water, filtered, mg/L (00940)
11-04-2009	70	15.3	2.57	2.72	7.94	39.4	48.0	--	10.4
12-02-2009	29	26.0	6.06	3.34	22.8	--	--	--	32.6
01-06-2010	18	15.6	3.61	2.69	13.4	47.3	57.6	--	17.9
02-03-2010	39	22.3	5.10	2.70	22.7	--	--	--	30.6
03-03-2010	59	23.6	5.78	2.78	24.7	--	--	--	36.5
04-07-2010	43	35.0	7.71	2.95	34.4	73.1	88.9	.1	48.6
05-05-2010	16	44.5	11.8	3.60	51.0	101	123	.1	67.3
06-08-2010	18	31.2	7.62	3.39	32.6	81.5	98.9	.2	46.9
07-06-2010	< 15	61.0	18.0	4.58	92.1	147	176	1.6	134
08-05-2010	19	73.7	24.1	4.77	149	123	147	1.6	235
09-09-2010	< 15	78.6	25.4	5.41	143	200	239	2.3	203

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 3 of 6

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Date	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO2 (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Phos-phorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Esche-richia coli, Defined Substrate Tech-nology, water, MPN/100 mL (50468)
11-04-2009	< .08	7.06	11.2	.66	E .015	.08	.004	.04	.15	--
12-02-2009	.11	7.65	32.9	.64	E .018	.12	.002	.04	.11	130
01-06-2010	.09	6.77	20.0	.52	E .015	.14	.002	E .02	.09	33
02-03-2010	.09	6.04	31.0	.63	E .017	.18	.003	E .02	.15	310
03-03-2010	.08	6.05	35.0	.56	E .013	.16	.003	E .03	.11	51
04-07-2010	.13	3.65	46.6	.57	E .017	.08	.002	< .04	.09	4
05-05-2010	.15	1.90	65.9	.57	< .020	E .02	.004	< .04	.06	2
06-08-2010	.12	3.68	38.4	.56	< .020	.11	.033	E .04	.09	< 1
07-06-2010	.21	3.18	96.9	.60	E .015	E .03	.004	E .02	.08	2
08-05-2010	.26	4.06	176	.57	< .020	< .04	< .002	.04	.08	--
09-09-2010	.24	7.45	153	.74	.065	.14	.090	.06	.10	< 1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 4 of 6

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Date	Esche-richia coli, MI MF method, water, col/100 mL (90901)	Esche-richia coli, modified m-TEC MF method, water, col/100 mL (90902)	Fecal coliform, M-FC MF (0.45 micron) method, water, col/100 mL (31616)	Fecal coliform, M-FC MF (0.7 micron) method, water, col/100 mL (31625)	Total coliform, Defined Substrate Tech-nology, water, MPN/100 mL (50569)	Total coliform, MI MF method, water, col/100 mL (90900)	Beryllium, water, unfiltered, recover-able, µg/L (01012)	Cadmium, water, unfiltered, µg/L (01027)	Chromium, water, unfiltered, recover-able, µg/L (01034)	Copper, water, unfiltered, recover-able, µg/L (01042)
11-04-2009	E 55	--	E 15	--	--	E 80	--	--	--	--
12-02-2009	--	E 280	--	E 85	--	--	--	--	--	--
01-06-2010	--	E 29	--	--	720	--	< .38	.08	1.3	7.3
02-03-2010	--	--	--	--	1,000	--	--	--	--	--
03-03-2010	--	--	--	--	1,800	--	--	--	--	--
04-07-2010	--	--	--	--	810	--	< .38	< .04	.83	1.7
05-05-2010	--	--	--	--	2,200	--	--	--	--	--
06-08-2010	--	--	--	--	2,300	--	--	--	--	--
07-06-2010	--	--	--	--	6,100	--	< .38	< .04	E .37	E 1.0
08-05-2010	--	--	--	--	--	--	--	--	--	--
09-09-2010	--	--	--	--	3,900	--	--	--	--	--

07350500 Red River at Coushatta, LA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 5 of 6

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Date	Iron, water, filtered, µg/L (01046)	Iron, water, unfiltered, recover-able, µg/L (01045)	Lead, water, unfiltered, recover-able, µg/L (01051)	Manga-nese, water, filtered, µg/L (01056)	Manganese, water, unfiltered, recover-able, µg/L (01055)	Mercury, water, unfiltered, recover-able, µg/L (71900)	Nickel, water, unfiltered, recover-able, µg/L (01067)	Zinc, water, unfiltered, recover-able, µg/L (01092)	Arsenic, water, unfiltered, µg/L (01002)	Selenium, water, unfiltered, µg/L (01147)
11-04-2009	346	--	--	20.8	--	--	--	--	--	--
12-02-2009	225	--	--	11.3	--	--	--	--	--	--
01-06-2010	228	1,020	2.02	12.7	36.0	< .010	2.7	6	1.1	.15
02-03-2010	75	--	--	9.6	--	--	--	--	--	--
03-03-2010	220	--	--	14.9	--	--	--	--	--	--
04-07-2010	79	1,060	.95	5.2	68.6	< .010	2.0	5	1.1	.20
05-05-2010	34	--	--	3.8	--	--	--	--	--	--
06-08-2010	16	--	--	2.8	--	--	--	--	--	--
07-06-2010	E 4	158	.17	3.2	109	< .010	1.0	< 4	2.9	.27
08-05-2010	E 4	--	--	3.8	--	--	--	--	--	--
09-09-2010	E 5	--	--	1.8	--	--	--	--	--	--

07350500 Red River at Coushatta, LA—Continued

WATER-QUALITY DATA WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 6 of 6

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Date	Organic carbon, water, unfiltered, mg/L (00680)
11-04-2009	10.2
12-02-2009	8.9
01-06-2010	7.7
02-03-2010	7.3
03-03-2010	6.7
04-07-2010	6.5
05-05-2010	7.3
06-08-2010	6.6
07-06-2010	6.3
08-05-2010	6.1
09-09-2010	7.8