

DEKALB COUNTY , GEORGIA  
DEPARTMENT OF WATERSHED MANAGEMENT  
SOUTH RIVER WATER QUALITY DATA: September 2010

**Site: South River: @ Moreland Ave**

DATE	TIME	pH, field	DO, field	Temp, field	Cond, field	Turbidity	BOD-5	Ammonia	Nitrite/Nitrate	Phosphorus, total	Fecal, coliform	Solid TSS
:UNITS	TIME	SU	mg/L	Deg C	umho/cm	NTU	mg/L	mg/L as N	mg/L as N	mg/L as P	cfu / 100 mL	mg/L
9/20/2010	9:40	7.0	6.1	21.5	199	10	<2	<0.10		0.03	220	1

**Site: Entrenchment Creek : Before entering the South River**

DATE	TIME	pH, field	DO, field	Temp, field	Cond, field	Turbidity	BOD-5	Ammonia	Nitrite/Nitrate	Phosphorus, total	Fecal, coliform	Solid TSS
:UNITS	TIME	SU	mg/L	Deg C	umho/cm	NTU	mg/L	mg/L as N	mg/L as N	mg/L as P	cfu / 100 mL	mg/L
9/13/2010	9:40	7.3	4.9	20.8	228	7	2	<0.10	2.3	0.12	220	7

  

DATE	TIME	Cadmium, total	Copper, total	Lead, total	Zinc, total	Hardness	Alkalinity
:UNITS	TIME	ug/L	ug/L	ug/L	ug/L	mg/L *	mg/L *
9/13/2010	9:40	<1.0	75	3.0	21	73	50

**Site: South River: @ Bouldercrest Road**

DATE	TIME	pH, field	DO, field	Temp, field	Cond, field	Turbidity	BOD-5	Ammonia	Nitrite/Nitrate	Phosphorus, total	Fecal	Solid TSS
:UNITS	TIME	SU	mg/L	Deg C	umho/cm	NTU	mg/L	mg/L as N	mg/L as N	mg/L as P	#/100 mL	mg/L
9/13/2010	9:20	7.5	6.4	20.6	200	4	<2	<0.10	0.88	0.03	600	3
9/20/2010	9:20	7.4	6.2	21.7	214	8	<2	<0.10		0.03	380	3
9/27/2010	9:05	7.2	5.9	21	94	19	3	<0.10		0.03	44000 **	21

  

DATE	TIME	Cadmium, total	Copper, total	Lead, total	Zinc, total	Hardness	Alkalinity
:UNITS	TIME	ug/L	ug/L	ug/L	ug/L	mg/L *	mg/L *
9/13/2010	9:20	<1.0	54	2	20	81	47

\*\* High fecal counts were preceded by a high rainfall event.

Notes: Cond ( Conductivity), BOD (Biochemical Oxygen Demand 5-Day), TSS (Total Suspended Solids), mg/L\* (mg/L as Calcium carbonate), NTU (Nephelometric Turbidity Units), cfu (colony forming units), mg/L (milligram per liter), ug/L (micro gram per liter), ND ( no data)

DEKALB COUNTY, GEORGIA  
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SOUTH RIVER WATER QUALITY DATA: September 2010

**Site: South River: @ Flakes Mill Road (Above Snapfinger WPCP)**

DATE	TIME	pH, field	DO, field	Temp, field	Cond, field	Turbidity	BOD-5	Ammonia	Nitrite/Nitrate	Phosphorus, total	Fecal, coliform	Solid TSS
:UNITS	TIME	SU	mg/L	Deg C	umho/cm	NTU	mg/L	mg/L as N	mg/L as N	mg/L as P	cfu / 100 mL	mg/L
9/13/2010	9:00	7.3	5.7	21.2	143	6	<2	<0.10	0.7	0.02	510	4
9/20/2010	9:00	7.1	4.8	21.8	164	10	<2	<0.10		0.04	80	5
9/27/2010	8:40	7.2	6.6	22.5	79	79	3	<0.10		0.04	34000 **	41
DATE	TIME	Cadmium, total	Copper, total	Lead, total	Zinc, total	Hardness	Alkalinity					
:UNITS	TIME	ug/L	ug/L	ug/L	ug/L	mg/L *	mg/L *					
9/13/2010	9:00	<1.0	66	2.63	33.4	49	37					

\*\* High fecal counts were preceded by a high rainfall event.

**Site: South River: Below Snapfinger WPCP**

DATE	TIME	pH, field	DO, field	Temp, field	Cond, field	Turbidity	BOD-5	Ammonia	Nitrite/Nitrate	Phosphorus, total	Fecal, coliform	Solid TSS
:UNITS	TIME	SU	mg/L	Deg C	umho/cm	NTU	mg/L	mg/L as N	mg/L as N	mg/L as P	cfu / 100 mL	mg/L
9/13/2010	8:45	7.4	5	21.9	350	7	2	<0.10	5.5	0.06	460	<1
9/20/2010	8:50	7.1	4.7	22.9	452	8	<2	<0.10		0.09	100	3
9/27/2010	8:30	6.9	5.3	21.6	175	58	4	<0.10		0.1	60000 **	45
DATE	TIME	Cadmium, total	Copper, total	Lead, total	Zinc, total	Hardness	Alkalinity					
:UNITS	TIME	ug/L	ug/L	ug/L	ug/L	mg/L *	mg/L *					
9/13/2010	8:45	<1.0	50.3	3.81	29.2	98	62					

\*\* High fecal counts were preceded by a high rainfall event.

**Site: South River: @ Highway 155 ( South River above Pole Bridge WPCP)**

DATE	TIME	pH, field	DO, field	Temp, field	Cond, field	Turbidity	BOD-5	Ammonia	Nitrite/Nitrate	Phosphorus, total	Fecal	Solid TSS
:UNITS	TIME	SU	mg/L	Deg C	umho/cm	NTU	mg/L	mg/L as N	mg/L as N	mg/L as P	cfu / 100 mL	mg/L
9/13/2010	10:10	7.6	7.9	23.1	351	6	<2	<0.10	6.1	0.05	200	2
9/20/2010	10:15	7.7	7.5	23.6	467	9	<2	<0.10		0.02	30	5
9/27/2010	10:30	7.1	7.5	21.5	132	37	4	<0.10		0.05	77000 **	30
DATE	TIME	Cadmium, total	Copper, total	Lead, total	Zinc, total	Hardness	Alkalinity					
:UNITS	TIME	ug/L	ug/L	ug/L	ug/L	mg/L *	mg/L *					
9/13/2010	10:10	<1.0	40.3	2.85	25.1	102	60					

\*\* High fecal counts were preceded by a high rainfall event.

Notes: Cond ( Conductivity), BOD (Biochemical Oxygen Demand 5-Day), TSS (Total Suspended Solids), mg/L\* (mg/L as Calcium carbonate), NTU (Nephelometric Turbidity Units), cfu (colony forming units), mg/L (milligram per liter), ug/L (micro gram per liter), ND ( no data)

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Site: South River:		Below Pole Bridge LAS and Above Pole Bridge WPCP										
DATE	TIME	pH, field	DO, field	Temp, field	Cond, field	Turbidity	BOD-5	Ammonia	Nitrite/Nitrate	Phosphorus, total	Fecal, coliform	Solid TSS
:UNITS	TIME	SU	mg/L	Deg C	umho/cm	NTU	mg/L	mg/L as N	mg/L as N	mg/L as P	cfu / 100 mL	mg/L
9/13/2010	10:40	7.7	6.1	22.6	314	6	2	<0.10	4.2	0.04	280	4
9/20/2010	10:30	7.6	6.3	22.8	431	10	<2	<0.10		0.08	320	7
9/27/2010	10:45	7.4	6.4	21.6	155	41	3	<0.10		0.14	54000 **	72

DATE	TIME	Cadmium, total	Copper, total	Lead, total	Zinc, total	Hardness	Alkalinity	
:UNITS	TIME	ug/L	ug/L	ug/L	ug/L	mg/L *	mg/L *	
9/13/2010	10:40	<1.0	53.3	2.05	26.6	89	57	** High fecal counts were preceded by a high rainfall event.

Site: South River:		Below Pole Bridge WPCP										
DATE	TIME	pH, field	DO, field	Temp, field	Cond, field	Turbidity	BOD-5	Ammonia	Nitrite/Nitrate	Phosphorus, total	Fecal, coliform	Solid TSS
:UNITS	TIME	SU	mg/L	Deg C	umho/cm	NTU	mg/L	mg/L as N	mg/L as N	mg/L as P	cfu / 100 mL	mg/L
9/13/2010	11:10	7.5	6.6	23	380	7	<2	<0.10	4.1	0.03	410	2
9/20/2010	10:45	7.5	6.4	23.6	404	9	<2	<0.10		0.01	80	4
9/27/2010	10:55	7.3	6.5	21.8	176	32	3	<0.10		0.11	19000 **	48

DATE	TIME	Cadmium, total	Copper, total	Lead, total	Zinc, total	Hardness	Alkalinity	
:UNITS	TIME	ug/L	ug/L	ug/L	ug/L	mg/L *	mg/L *	
9/13/2010	11:10	<1.0	65.8	1.6	26.5	77	52	** High fecal counts were preceded by a high rainfall event.

Site: South River:		@ Klondike Road										
DATE	TIME	pH, field	DO, field	Temp, field	Cond, field	Turbidity	BOD-5	NH3	NO2NO3	P-Total	Fecal, coliform	Solid TSS
:UNITS	TIME	SU	mg/L	Deg-C	umho/cm	NTU	mg/L	mg/L as N	mg/L as N	mg/L as P	cfu / 100 mL	mg/L
9/9/2010	10:15	7.5	2.8	24.2	390	6	<2	<0.10		0.03	190	5

Notes: Cond ( Conductivity), BOD (Biochemical Oxygen Demand 5-Day), TSS (Total Suspended Solids), mg/L\* (mg/L as Calcium carbonate), NTU (Nephelometric Turbidity Units), cfu (colony forming units), mg/L (milligram per liter), ug/L (micro gram per liter), ND ( no data)