

DEKALB COUNTY, GEORGIA
DEPARTMENT OF WATERSHED MANAGEMENT
SOUTH RIVER WATER QUALITY DATA: October 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 |
| 10/11/2010 | 9:20 | 7.7 | 9.4 | 15.3 | 215 | 5 | <2 | 0.1 | ND | 0.04 | 4800 | 9 |

| 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 |
| 10/4/2010 | 9:30 | 7.4 | 9.2 | 14.7 | 247 | 5 | <2 | 0.28 | 2.3 | 0.12 | 3300 | 5 |
| 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 * | | | | | |
| 10/4/2010 | 9:30 | <1.0 | 52 | 4.0 | 26 | 67 | 49 | | | | | |

| 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 |
| 10/4/2010 | 9:19 | 7.5 | 10.2 | 14.4 | 196 | 5 | 2 | <0.10 | 1.4 | 0.04 | 1800 | 3 |
| 10/11/2010 | 9:10 | 7.9 | 9.3 | 15.6 | 227 | 3 | <2 | <0.10 | | 0.02 | 310 | 4 |
| 10/18/2010 | 9:05 | 7.3 | 7.8 | 12.3 | 196 | 3 | <2 | <0.10 | | 0.05 | 180 | <1 |
| 10/25/2010 | 9:35 | 7.5 | 7.3 | 16.4 | 191 | 12 | ND | <0.10 | | 0.09 | 3800 | 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 * | | | | | |
| 10/4/2010 | 9:19 | <1.0 | 46 | 2.5 | 25 | 61 | 47 | | | | | |

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
DEPARTMENT OF WATERSHED MANAGEMENT
SOUTH RIVER WATER QUALITY DATA: October 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 |
| 10/4/2010 | 8:54 | 7.3 | 11.5 | 14.4 | 135 | 5 | <2 | <0.10 | 0.64 | 0.05 | 650 | 16 |
| 10/11/2010 | 8:45 | 7.5 | 11.6 | 15.7 | 158 | 4 | <2 | <0.10 | | 0.02 | 120 | 3 |
| 10/18/2010 | 8:40 | 7.7 | 9.2 | 12.5 | 135 | 39 | <2 | <0.10 | | 0.43 | 190 | 147 |
| 10/25/2010 | 9:15 | 7.4 | 8.7 | 16.9 | 59 | 9 | ND | <0.10 | | 0.05 | 8000 | 17 |
| 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 * | | | | | |
| 10/4/2010 | 8:54 | <1.0 | 47 | <1.0 | 16 | 40 | 41 | | | | | |

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 |
| 10/4/2010 | 8:42 | 7.0 | 4.5 | 17.0 | 353 | 3 | <2 | <0.10 | 5.8 | 0.12 | 360 | 2 |
| 10/11/2010 | 8:35 | 7.1 | 9.3 | 18.5 | 442 | 2 | <2 | <0.10 | | 0.08 | 100 | 2 |
| 10/18/2010 | 8:30 | 7.1 | 6.6 | 15.4 | 382 | 3 | <2 | <0.10 | | 0.1 | 110 | 1 |
| 10/25/2010 | 9:10 | 7.2 | 5.6 | 19.0 | 392 | 4 | ND | <0.10 | | 0.1 | 800 | 4 |
| 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 * | | | | | |
| 10/4/2010 | 8:42 | <1.0 | 56 | 4.4 | 27 | 84 | 50 | | | | | |

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 |
| 10/4/2010 | 10:06 | 6.6 | 10.5 | 18.1 | 373 | 5 | <2 | 0.22 | 6.2 | 0.1 | 400 | 2 |
| 10/11/2010 | 10:05 | 7.8 | 12.8 | 18.5 | 480 | 3 | 2 | <0.10 | | 0.06 | 30 | 4 |
| 10/18/2010 | 9:55 | 7.4 | 9.5 | 16.0 | 405 | 4 | <2 | <0.10 | | 0.6 | 190 | 1 |
| 10/25/2010 | 10:10 | 7.5 | 8.4 | 18.1 | 389 | 2 | ND | <0.10 | | 0.08 | 160 | 5 |
| 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 * | | | | | |
| 10/4/2010 | 10:06 | <1.0 | 52 | 2.4 | 22 | 94 | 54 | | | | | |

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
DEPARTMENT OF WATERSHED MANAGEMENT
SOUTH RIVER WATER QUALITY DATA: October 2010

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 | | 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 |
| 10/4/2010 | 10:34 | 7.9 | 11.7 | 16.9 | 360 | 4 | <2 | 0.34 | 5.0 | 0.08 | 180 | 6 |
| 10/11/2010 | 10:25 | 7.8 | 11.2 | 17.4 | 439 | 3 | <2 | <0.10 | | 0.07 | 170 | 10 |
| 10/18/2010 | 10:10 | 7.7 | 8.0 | 14.5 | 374 | 3 | <2 | <0.10 | | 0.07 | 30 | 7 |
| 10/25/2010 | 10:30 | 7.5 | 7.2 | 17.5 | 362 | 8 | NS | <0.10 | | 0.07 | 2200 | 11 |
| 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 * | | | | | |
| 10/4/2010 | 10:34 | <1.0 | 37 | 2.4 | 18 | 86 | 52 | | | | | |

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 | | 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 |
| 10/4/2010 | 11:00 | 7.5 | 9.7 | 17.8 | 352 | 4 | <2 | <0.10 | 4.1 | 0.09 | 320 | 4 |
| 10/11/2010 | 10:40 | 7.8 | 9.4 | 19.1 | 430 | 5 | <2 | <0.10 | | 0.04 | 560 | 12 |
| 10/18/2010 | 10:25 | 7.2 | 8.3 | 15.5 | 384 | 3 | <2 | 0.95 | | 0.05 | 120 | 1 |
| 10/25/2010 | 10:40 | 7.6 | 7.2 | 18.0 | 358 | 7 | ND | <0.10 | | 0.06 | 1500 | 29 |
| 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 * | | | | | |
| 10/4/2010 | 11:00 | <1.0 | 60 | 5.5 | 31 | 75 | 54 | | | | | |

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 | | 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 |
| 10/11/2010 | 10:55 | 7.7 | 8.6 | 18.4 | 402 | 7 | <2 | <0.10 | ND | 0.05 | 120 | 10 |

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)