

DEKALB COUNTY , GEORGIA
DEPARTMENT OF WATERSHED MANAGEMENT
SOUTH RIVER WATER QUALITY DATA: XXXX, 2012

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 |
|----------|------|-----------|-----------|-------------|-------------|-----------|-------|-----------|-----------------|-------------------|-----------------|-----------|
| | | 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 |
| 7/9/2012 | 9:35 | 7.4 | 6.1 | 25.2 | 185 | 2 | <2 | <0.10 | 0.83 | 0.02 | 480 | <1 |

| DATE | TIME | Cadmium, total | Copper, total | Lead, total | Zinc, total | Hardness |
|------|------|----------------|---------------|-------------|-------------|----------|
| | | ug/L | ug/L | ug/L | ug/L | mg/L * |

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 |
|----------|------|-----------|-----------|-------------|-------------|-----------|-------|-----------|-----------------|-------------------|-----------------|-----------|
| | | 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 |
| 7/2/2012 | 9:30 | 7.4 | 3.5 | 24.8 | 270 | 2 | <2 | 0.15 | 2.4 | 0.16 | 110 | 2 |

| DATE | TIME | Cadmium, total | Copper, total | Lead, total | Zinc, total | Hardness |
|----------|------|----------------|---------------|-------------|-------------|----------|
| | | ug/L | ug/L | ug/L | ug/L | mg/L * |
| 7/2/2012 | 9:30 | <1.0 | 11.2 | 3.05 | 10.3 | 74 |

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 |
|-----------|------|-----------|-----------|-------------|-------------|-----------|-------|-----------|-----------------|-------------------|----------|-----------|
| | | 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 |
| 7/2/2012 | 9:15 | 7.8 | 6.4 | 25.1 | 213 | 3 | <2 | <0.10 | 0.65 | 0.06 | 110 | 2 |
| 7/9/2012 | 9:10 | 7.8 | 6.4 | 25.9 | 194 | 3 | <2 | 0.14 | 0.38 | 0.05 | 1400 | 1 |
| 7/16/2012 | 9:10 | 7.5 | 6.7 | 24.2 | 207 | 19 | 2 | <0.10 | | 0.16 | 5800 | 10 |
| 7/23/2012 | 9:05 | 7.7 | 7.3 | 23.4 | 173 | 4 | <2 | <0.10 | | 0.04 | 880 | 5 |

| DATE | TIME | Cadmium, total | Copper, total | Lead, total | Zinc, total | Hardness |
|----------|------|----------------|---------------|-------------|-------------|----------|
| | | ug/L | ug/L | ug/L | ug/L | mg/L * |
| 7/2/2012 | 9:15 | <1.0 | 7.22 | 4.26 | 12.6 | 70 |

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: XXXX, 2012

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 |
|-----------|------|-----------|-----------|-------------|-------------|-----------|-------|-----------|-----------------|-------------------|-----------------|-----------|
| | | 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 |
| 7/2/2012 | 8:50 | 7.7 | 5.5 | 25.7 | 162 | 9 | <2 | <0.10 | 0.48 | 0.03 | 1000 | 10 |
| 7/9/2012 | 8:50 | 8 | 5.9 | 25.6 | 159 | 6 | 5 | <0.10 | 0.3 | 0.05 | 6500 | 19 |
| 7/16/2012 | 8:50 | 7.7 | 6.6 | 24.6 | 152 | 9 | <2 | 0.1 | | 0.08 | 1300 | 6 |

| DATE | TIME | Cadmium, total | Copper, total | Lead, total | Zinc, total | Hardness |
|----------|------|----------------|---------------|-------------|-------------|----------|
| 7/2/2012 | 8:50 | <1.0 | 9.74 | 10.7 | 34.6 | 63 |

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 |
|-----------|------|-----------|-----------|-------------|-------------|-----------|-------|-----------|-----------------|-------------------|-----------------|-----------|
| | | 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 |
| 7/2/2012 | 8:40 | 7.6 | 7.1 | 25.5 | 509 | 4 | <2 | <0.10 | 12.4 | 0.07 | 250 | 10 |
| 7/9/2012 | 8:40 | 7.9 | 7.2 | 25.4 | 517 | 3 | <2 | 0.37 | 9.38 | 0.06 | 2800 | <1 |
| 7/16/2012 | 8:40 | 7.6 | 7.4 | 24.3 | 314 | 6 | <2 | <0.10 | | 0.06 | 430 | 5 |
| 7/23/2012 | 8:30 | 7.8 | 7.4 | 24.2 | 333 | 4 | <2 | <0.10 | | 0.05 | 560 | 3 |

| DATE | TIME | Cadmium, total | Copper, total | Lead, total | Zinc, total | Hardness |
|----------|------|----------------|---------------|-------------|-------------|----------|
| 7/2/2012 | 8:40 | <1.0 | 5.9 | 2.36 | 19.4 | 121 |

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 |
|-----------|-------|-----------|-----------|-------------|-------------|-----------|-------|-----------|-----------------|-------------------|--------------|-----------|
| | | 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 |
| 7/2/2012 | 10:15 | 8 | 8.6 | 25.5 | 525 | 3 | <2 | <0.10 | 11.3 | 0.05 | 700 | 3 |
| 7/9/2012 | 10:00 | 8 | 8.3 | 25.9 | 528 | 2 | <2 | <0.10 | 10 | 0.04 | 900 | 1 |
| 7/16/2012 | 10:00 | 7.6 | 8 | 25.2 | 306 | 5 | <2 | <0.10 | | 0.05 | 480 | 3 |
| 7/23/2012 | 10:00 | 8 | 8.6 | 24.7 | 320 | 5 | <2 | <0.10 | | 0.04 | 440 | 5 |

| DATE | TIME | Cadmium, total | Copper, total | Lead, total | Zinc, total | Hardness |
|----------|-------|----------------|---------------|-------------|-------------|----------|
| 7/2/2012 | 10:15 | <1.0 | 8.79 | 3.27 | 18.3 | 133 |

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: XXXX, 2012

Site: South River: Below Pole Bridge LAS and Above Pole Bridge WPCP

| DATE | TIME | pH, field SU | DO, field mg/L | Temp, field Deg C | Cond, field umho/cm | Turbidity NTU | BOD-5 mg/L | Ammonia mg/L as N | Nitrite/Nitrate mg/L as N | Phosphorus, total mg/L as P | Fecal, coliform cfu / 100 mL | Solid TSS mg/L |
|-----------|-------|-----------------|-------------------|----------------------|------------------------|------------------|---------------|----------------------|------------------------------|--------------------------------|---------------------------------|-------------------|
| 7/2/2012 | 10:45 | 7.7 | 7.3 | 26 | 480 | 2 | <2 | <0.10 | 9.9 | 0.12 | 140 | 2 |
| 7/9/2012 | 10:15 | 7.9 | 6.6 | 26.4 | 465 | 3 | <2 | 0.45 | 9.02 | 0.09 | 2100 | 42 |
| 7/16/2012 | 10:10 | 7.7 | 7 | 25.5 | 286 | 8 | <2 | <0.10 | | 0.05 | 390 | 11 |
| 7/23/2012 | 10:15 | 7.9 | 7.3 | 24.9 | 305 | 6 | <2 | <0.10 | | 0.04 | 460 | 8 |

| DATE | TIME | Cadmium, total ug/L | Copper, total ug/L | Lead, total ug/L | Zinc, total ug/L | Hardness mg/L * |
|----------|-------|------------------------|-----------------------|---------------------|---------------------|--------------------|
| 7/2/2012 | 10:45 | <1.0 | 8.58 | 13.5 | 41.1 | 130 |

Site: South River: Below Pole Bridge WPCP

| DATE | TIME | pH, field SU | DO, field mg/L | Temp, field Deg C | Cond, field umho/cm | Turbidity NTU | BOD-5 mg/L | Ammonia mg/L as N | Nitrite/Nitrate mg/L as N | Phosphorus, total mg/L as P | Fecal, coliform cfu / 100 mL | Solid TSS mg/L |
|-----------|-------|-----------------|-------------------|----------------------|------------------------|------------------|---------------|----------------------|------------------------------|--------------------------------|---------------------------------|-------------------|
| 7/2/2012 | 11:05 | 7.8 | 7.8 | 24.9 | 458 | 5 | <2 | <0.10 | 12.1 | 0.04 | 190 | 8 |
| 7/9/2012 | 10:35 | 8.1 | 7.2 | 25.6 | 452 | 4 | <2 | 0.37 | 7.65 | 0.07 | 1300 | 9 |
| 7/16/2012 | 10:30 | 7.6 | 6.8 | 24.2 | 300 | 11 | <2 | <0.10 | | 0.09 | 5200 | 21 |
| 7/23/2012 | 10:35 | 7.8 | 7.6 | 24.8 | 313 | 18 | <2 | <0.10 | | 0.13 | 320 | 36 |

| DATE | TIME | Cadmium, total ug/L | Copper, total ug/L | Lead, total ug/L | Zinc, total ug/L | Hardness mg/L * |
|----------|-------|------------------------|-----------------------|---------------------|---------------------|--------------------|
| 7/2/2012 | 11:05 | <1.0 | 5.98 | 7.21 | 23.5 | 100 |

Site: South River: @ Klondike Road

| DATE | TIME | pH, field SU | DO, field mg/L | Temp, field Deg-C | Cond, field umho/cm | Turbidity NTU | BOD-5 mg/L | NH3 mg/L as N | NO2NO3 mg/L as N | P-Total mg/L as P | Fecal, coliform cfu / 100 mL | Solid TSS mg/L |
|----------|-------|-----------------|-------------------|----------------------|------------------------|------------------|---------------|------------------|---------------------|----------------------|---------------------------------|-------------------|
| 7/9/2012 | 11:00 | 7.4 | 5.8 | 27 | 469 | 6 | <2 | 0.11 | | 0.06 | 5900 | 9 |

| DATE | TIME | Cadmium, total ug/L | Copper, total ug/L | Lead, total ug/L | Zinc, total ug/L | Hardness mg/L * |
|------|------|------------------------|-----------------------|---------------------|---------------------|--------------------|
| | | | | | | |

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)