GEORGIA ADOPT-A-STREAM: Basic Visual Form

To be used with: Photo Points, Wentworth Pebble Count, Cross Section, Bio Survey, Stream Habitat Survey, Stream Flow and Site Sketch

| ON | Group Name: | Event Date: | (MMDDYYYY) | | | | | | |
|------------------|--|----------------------|--|--------------------|--|--|--|--|--|
| SITE INFORMATION | Group ID: GSite ID: S | Time Sample C | Collected: | _(HHMM am/pm) | | | | | |
| ORI | Stream Name: | Time Spent Sa | mpling: | _(Min) | | | | | |
| N N | Monitor(s): | Total Time Spe | ent Traveling <i>(optional)</i> :_ | (Min) | | | | | |
| SITE | Number of Participants: | Furthest Distan | nce Traveled <i>(optional)</i> :_ | (Miles) | | | | | |
| ΞR | Present conditions (check all that apply) | | Amount of rain, if kno | | | | | | |
| E | | rmittent Rain | Amount in Inches: | | | | | | |
| WEATHER | Overcast Partly Cloudy Clea | ar/Sunny | In Last Hours/Days: | | | | | | |
| 5 | | | *Refer to wunderground.com for rainfall data | | | | | | |
| | Flow/Water Level: Dry Stagnant/Still | Low No | ormal High | Flood (over banks) | | | | | |
| NS | Water Clarity: ☐ Clear/Transparent ☐ Clou | udy/Somewhat Turbio | d Dpaque/Turbid | Other: | | | | | |
| 10 | Water Color: No Color Brown/Muddy Green Milky/White Tannic Other: | | | | | | | | |
| OBSERVATIONS | Water Surface: Clear Oily sheen: Does it break when disturbed? Yes/No (circle one) Algae | | | | | | | | |
| | ☐ Foam | gh Olt is pure white | e Dother: | | | | | | |
| | Water Odor: Natural/None Ga | soline | Sewage Rotte | n Egg | | | | | |
| | ☐ Fishy ☐ Chl | orine | Other: | | | | | | |
| | Trash: None Yes, I did a cleanup | This site needs an | organized cleanup | | | | | | |
| S | Photos: Please take images to document your ob | servations and chan | ges in water quality cond | ditions. | | | | | |
| L | Photo point directions can be found in the r | nanuals. Send photo | s to AAS@gaepd.org. | | | | | | |
| PO | Reference Location (RL): Latitude (+) | (DD.DDDD°) | Longitude (-) | (DD.DDDD°) | | | | | |
| 10 | Compass bearing to permanent Photo Point Lo | ocation (PPL): Degre | ees (°) | | | | | | |
| PHOTO POINTS | Distance to permanent Photo Point Location (F | PPL) from Reference | Location (RL): Distan | ce(ft/in) | | | | | |
| Д | Camera height at permanent Photo Point locat | ion (PPL): Height | (ft/in) | | | | | | |
| | Any changes since you last | sampled at this site | e? If yes, please descr | ibe. | | | | | |
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| COMMENTS | | | | | | | | | |
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Please submit data to our online database at AdoptAStream.Georgia.gov

GEORGIA ADOPT-A-STREAM: Stream Habitat Survey

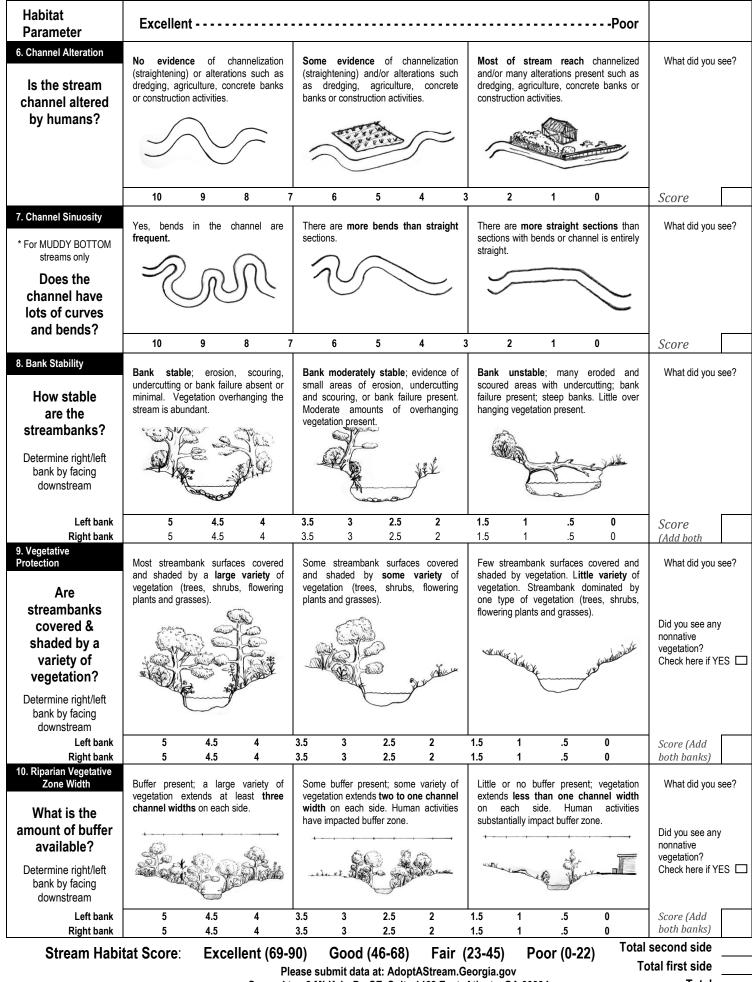
(Also fill out the Basic Visual Form when completing this survey)

| ype of Stream: | |
|----------------|--|
| □ Rocky bottom | |
| ☐ Muddy bottom | |

Stream habitat will be evaluated looking both upstream and downstream, and includes: channel bottom materials, streamside vegetation, slope, and other channel characteristics. You may choose a value between 0-10 for each parameter. Note #s 8-10 ask you to evaluate each bank separately.

All measurements should be taken during baseflow conditions. Stream reach is defined as 12 times stream width, bankfull to bankfull.

| All measurements sh | nould be tak | en durin | g baseflow | v conditio | ons. St | ream re | ach is de | fine | d as 12 times | s stream | width, bankfu | II to bankfull | |
|--|--|---|-------------------------------------|------------|-----------------------|----------------------|---|-----------|--------------------------|---------------|--|----------------|------|
| Habitat Parameter | Exce | llent | | | | | | | | | Poor | | |
| 1. Epifaunal Substrate What types of submerged materials are on the channel bottom? | colonization and fish: sub vegetative de | Adequate stable habitat cover for colonization by macroinvertebrates and fish: submerged roots, woody and egetative debris, cobbles, leaf packs and undercut banks. Adequate stable habitat cover for colonization by macroinvertebrates and fish: submerged roots, woody and vegetative debris, cobbles, leaf packs and undercut banks; habitat may move during high flows. | | | | | | | What did you | see? | | | |
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | |
| * For ROCKY BOTTOM streams only | Gravel and embedded in | | are slightly | | el and dded in rif | cobble fle area. | are partia | lly | Gravel and embedded in r | | are completely | What did you | see? |
| Are fine sediments being deposited in | - Alexander | CO CO | o Vi | | | (CO) (C) | W. | _ | - XX | | - JA | | |
| riffle/run area? | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | |
| Is a diversity of instream habitats available: riffle, runs and pools? | Yes, all three run, pool) are | | d frequent. | Two (: | 2) habitat | types are | present. | | Only one (1) dominant. | habitat ty | rpe present and | What did you | see? |
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | |
| 4. Sediment Deposition Are point bars and islands present? | small size a | and frequen Composed | stable and copy with some mostly of | e and o | of modera some | ate size a sparse | s less stab and frequen vegetation me gravel a | cy on. | a large size v | vith little o | unstable and of r no vegetation. ntirely of fine | What did you | see? |
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | |
| How much water is in the stream channel? | Water reach banks; little s | | f both lowe | | substrat | | sed and wat | ter | Most substra | | posed and very | What did you | see? |
| | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | |



Or send to: 2 MLK Jr. Dr. SE, Suite 1462 East, Atlanta, GA 30334 Phone:(404) 651-8515 Email: AAS@gaepd.org

Total

GEORGIA ADOPT-A-STREAM: Stream Flow

(Also fill out the Basic Visual Form when completing this survey)

CALCULATE AREA Area = depth x width It is advisable to take multiple depth and width measurements Always start at the water's edge with a first measurement of zero All data should be recorded in feet, with inches replaced by decimals Depth sum Measurements 0 ft **Average** sum of depth measurements ft **Depth** number of measurements Width sum Measurements sum of width measurements **Average** ft Width number of measurements width depth ft^2 Χ Area CALCULATE SPEED- Measure the time it takes a float to travel a desired distance It is advisable to take at least 2 measurements of current speed Take measurements from the stream run length = feet (20 feet is recommended) time in sum seconds sum of time measurements average s number of measurements time length in feet ft/s **Speed** average time in seconds **CALCULATE STREAM FLOW Speed** Coefficient Area **Flow** cfs X X Flow in cubic feet per second 0.9 coefficient for muddy bottom stream 0.8 coefficient for rocky bottom stream

GEORGIA ADOPT-A-STREAM: Channel Cross-Section: Part 1

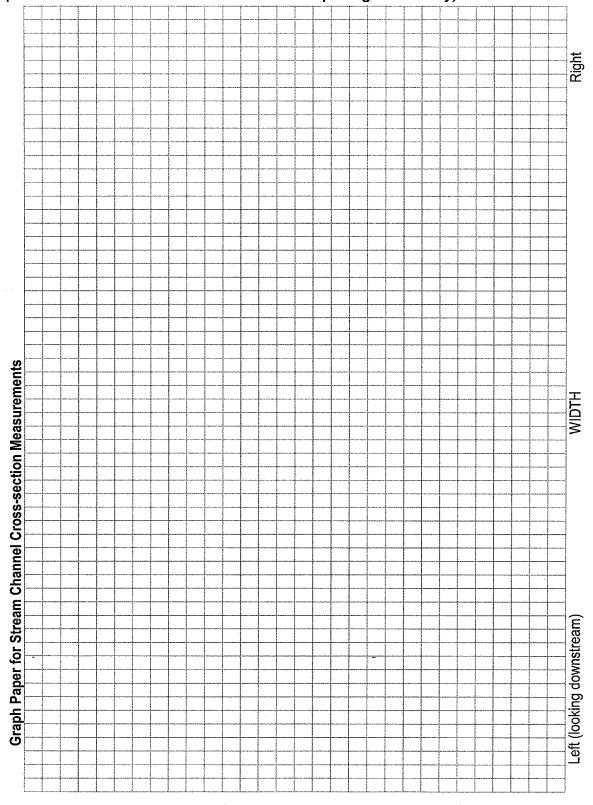
(Also fill out the Basic Visual Form when completing this survey)

Measurements are always taken from the left stream bank, looking downstream. Depth measurements are taken every two feet and in sections where there is a notable change. Be sure to note left and right bankfull, water edge, and sand bars.

| CROS | SS-SECT | ION | |
|-------------------|----------------|----------------------|----------|
| Distand LEFT F | ce from Pin | Measurement Depth | Comments |
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| CROSS-SECTION | | | | | | | |
|--------------------|--------|----------------------|----------|--|--|--|--|
| Distance LEFT P | e from | Measurement Depth | Comments | | | | |
| Point | Ft. | Ft. | | | | | |
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GEORGIA ADOPT-A-STREAM: Channel Cross-Section: Part 2 (Also fill out the Basic Visual Form when completing this survey)



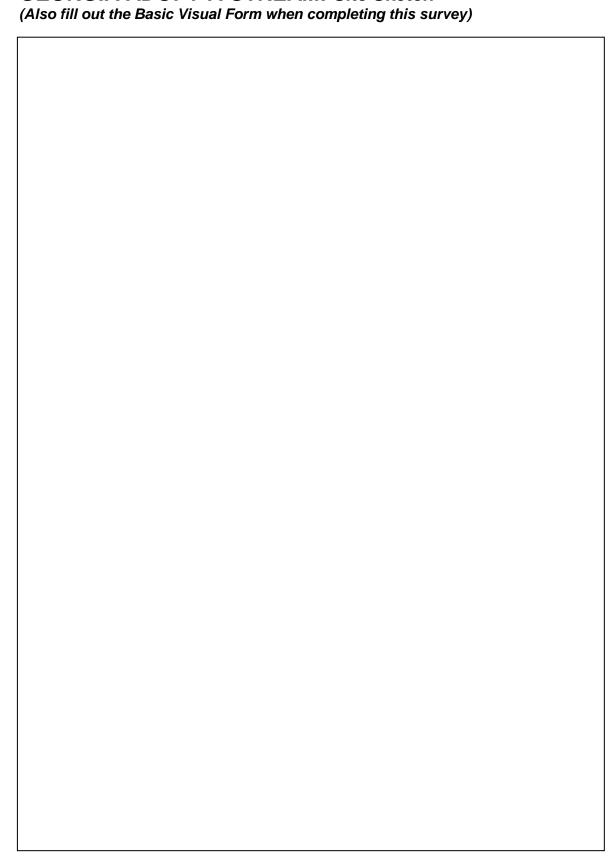
GEORGIA ADOPT-A-STREAM: Wentworth Pebble Count

(Also fill out the Basic Visual Form when completing this survey)

| Count#/Size Class | Silt/Clay | Sand | Gravel | Cobble | Boulder | Bedrock |
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| Count#/Size Class | Silt/Clay | Sand | Gravel | Cobble | Boulder | Bedrock |
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| Total in each | | | | | | |
| column (%) | | | | | | |
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GEORGIA ADOPT-A-STREAM: Site Sketch



GEORGIA ADOPT-A-STREAM: Visual Biological Survey (Also fill out the Basic Visual Form when completing this survey)

| 1. V | Vildlife in or around the stream: ☐ amphibians ☐ waterfowl ☐ re ☐ crustaceans ☐ birds | ptiles □ ma | mmals 🗆 musse | els/clams/oysters |
|-------------|--|-----------------|-------------------------------------|-------------------|
| <i>2.</i> F | Fish in the stream: (Check all that ☐ no ☐ yes, but ☐ small (1-2") ☐ medium | rare | ∃yes abundant ∃ large (7" and ab | pove) |
| A | Are there barriers to fish movement' none beaver dams dams road barriers | □ waterfa | | |
| 3. A | Aquatic plants in the stream: <i>(Che</i> □ none | eck all that ap | oply) | |
| | □ attached plants o stream margin/edge pools near riffle | ccasional | plentiful | |
| | ☐ free-floating plants o stream margin/edge pools near riffle | ccasional | plentiful | |
| | Extent of algae in the stream: a) Are the submerged stones, twig layer of algae? (Check all that a none | | aterial in the stre | am coated with a |
| | □ brownish: occasionlight coating □heavy coating □ | nal | plentiful □ □ | |
| | □ greenish: occasional occasionallight coating □ heavy coating □ | al | plentiful | |
| | □ other: occasional light coating □ heavy coating □ | al | plentiful | |

| b) A | Are the | ere an | y filam | entous | (string | j-like) a | lgae? | | | | |
|---------------------------|----------------|----------------|---------|--------|-----------|-----------|---------|----------|-----------------|------------------|------------|
| | | | | none | OC | casiona | al ple | entiful | | | |
| | brown | ish | | | | | | | | | |
| | green | ish | | | | | | | | | |
| | other: | | | | | | | | | | |
| c) A | Are an | v deta | ached " | clumps | or "m | nats" of | : algae | floating | n on th | e water's surfac | e? |
| 0, , | ii o aii | y doll | ionou | none | | | al ple | - | <i>y</i> 011 an | o water o carrae | <i>.</i> . |
| | brown | ish | | | | | • | | | | |
| | green | ish | | | | | | | | | |
| | other | | : | | | | | | | | |
| <i>aquatic</i> Logs or | orgar large | nisms) wood | y debri | s: | □ noi | ne | | casiona | al | • | 101 |
| Leaves | , twigs | s, root | mats, | etc.: | □ noi | ne | | casiona | al | □ plentiful | |
| 6. Strea | am sh | ade c | over: l | How we | ell is th | e wate | r surfa | ce shad | ded by | vegetation? | |
| Looking | g dowr | n strea | ım: | | | | | | | | |
| | To | otal sh | ading | | | | | | | No shad | ling |
| 100% 9 | 0% | | | | | | | | | | _ |
| 8 | 30% | 70% | 60% | 50% | 40% | 30% | 20% | 10% | 0 | | |