

EXAMPLE FORM

GEORGIA ADOPT-A-STREAM

Watershed Survey and Map Assessment

to be conducted at least once a year

Send completed form and delineated watershed map to Georgia Adopt-A-Stream.

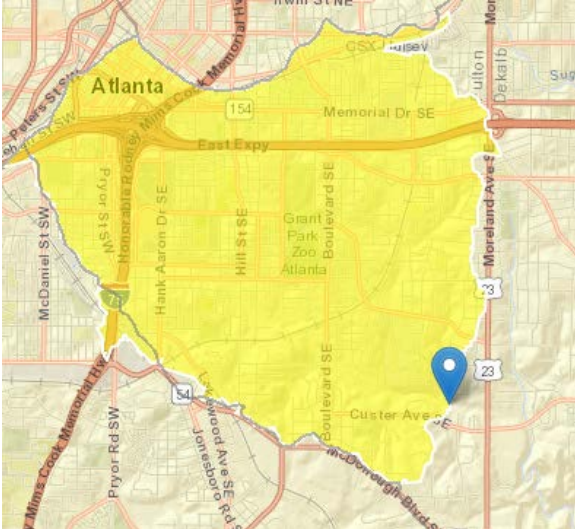
Mail:
2 MLK Jr. Drive S.E.
Suite 1462 E
Atlanta, GA 30334

Email:
AAS@dnr.ga.gov

| | | | |
|--|--|------------------------------|--|
| AAS group name: | <u>Chattahoochee Hills Creek Keepers</u> | Investigator(s): | <u>Mary and Matt Mayfly</u> |
| Type of waterbody: | <input checked="" type="radio"/> stream <input type="radio"/> wetland <input type="radio"/> lake | | |
| Water body name: | <u>Little Bear Creek</u> | County | <u>Fulton</u> |
| Approximate size of drainage/study area: | <u>6.6</u> mi ² | | |
| Approximate % impervious surface cover: | <u>27.8</u> % | | |
| Length of waterbody walked: | <u>1.25</u> mi | | |
| Date: | <u>2/12/2020</u> | Time: | <u>10:20 am</u> |
| | | Picture/photo documentation? | <input checked="" type="radio"/> Yes <input type="radio"/> No (circle) |

I. MAP YOUR WATERSHED

Instructions and tools to assist with delineating and mapping your watershed are on the [Online Mapping Resources](#) page on the Adopt-A-Stream website.



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II. LAND USES/ACTIVITIES

1. Identify land uses and activities in the watershed which have the highest potential to impact water bodies:

Please indicate if you: surveyed only adjacent to the waterbody
 surveyed the whole watershed
 Provide notes as necessary

| Land Disturbing Activities & Other Sources of Sediment | Adjacent to Water | In Watershed | Notes on location & frequency of activity |
|---|-------------------------------------|-------------------------------------|--|
| Extensive areas disturbed by land development or construction of utilities, roads & bridges | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| Large or extensive gullies | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Unpaved roads near or crossing streams | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Croplands | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Pastures with cattle access to water bodies | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Commercial forestry activities including harvesting and site-preparation | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Extensive areas of streambank failure or channel enlargement | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |

Other Agricultural Activities

| | | | |
|--|--------------------------|--------------------------|-------|
| Confined animal (cattle or swine) feeding operations and concentrations of animals | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Animal waste stabilization ponds | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Poultry houses | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

Highways and Parking Areas

| | | | |
|--|--------------------------|-------------------------------------|-------|
| Shopping centers & commercial areas | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Interstate and controlled access highways and interchanges | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |
| Major highways and arterial streets | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Other extensive vehicle parking areas | <input type="checkbox"/> | <input checked="" type="checkbox"/> | _____ |

Grant Park parking deck construction began in 2018

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| | Adjacent to Water | In Watershed | Notes on location & frequency of activity |
|---|-------------------------------------|-------------------------------------|--|
| Mining | | | |
| Quarries with sediment basins in live flowing streams | <input type="checkbox"/> | <input type="checkbox"/> | |
| Transportation and Motor Vehicle Services | | | |
| Truck cleaning services | <input type="checkbox"/> | <input type="checkbox"/> | |
| Public and private automobile repair facilities | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Car washes and large auto dealers | <input type="checkbox"/> | <input type="checkbox"/> | |
| Rail or container transfer yards | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Airports with fuel handling/aircraft repair | <input type="checkbox"/> | <input type="checkbox"/> | |
| Business & Industry, General | | | |
| Activities with exterior storage or exchange of materials. | <input type="checkbox"/> | <input type="checkbox"/> | |
| Activities with poor housekeeping practices indicated by stains leading to streams or storm drains or on-site disposal of waste materials | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Heavy industries such as textiles & carpet, pulp & paper, metal, and vehicle production or fabrication | <input type="checkbox"/> | <input type="checkbox"/> | |
| Dry cleaners/outside chemical storage | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Food & Kindred Products | | | |
| Fertilizer production plants | <input type="checkbox"/> | <input type="checkbox"/> | |
| Feed preparation plants | <input type="checkbox"/> | <input type="checkbox"/> | |
| Meat and poultry slaughtering or processing plants | <input type="checkbox"/> | <input type="checkbox"/> | |
| Construction Materials | | | |
| Wood treatment plants | <input type="checkbox"/> | <input type="checkbox"/> | |
| Concrete and asphalt batch plants | <input type="checkbox"/> | <input type="checkbox"/> | |

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| Waste Recycling, Movement & Disposal | Adjacent to Water | In Watershed | Notes on location & frequency of activity |
|--|-------------------------------------|--------------------------|--|
| Junk and auto salvage yards | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Solid waste transfer stations | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Landfills and dumps (old & active) | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Recycling centers | <input checked="" type="checkbox"/> | <input type="checkbox"/> | _____ |
| Drum cleaning sites | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Illicit Waste Discharges* | | | |
| Sanitary sewer leaks or failure | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Overflowing sanitary sewer manholes due to clogging or hydraulic overloading | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Bypasses at treatment plants or relief valves in hydraulically overloaded sanitary sewer lines | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Domestic or industrial discharges | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Extensive areas with aged/malfunctioning septic tanks | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Dry-weather flows from pipes (with detectable indications of pollution) | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| Streamside areas of illegal dumping | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

*If found, these activities should be immediately reported to the local government or the EPD regional office. These phone numbers are listed on the “Who to Call” resource on the Adopt-A-Stream website, adoptastream.georgia.gov. The ‘Who To Call’ list can be found on the ‘Monitoring Resources’ page under the ‘Materials & Resources’ tab.

EXAMPLE FORM

III. GENERAL WATERBODY AND WATERSHED CHARACTERISTICS

1. Note the presence of hydrologic modifications on your waterbody: *structures that alter water flow*

| | |
|------------------|----------------------|
| None _____ | Beaver dams _____ |
| Dams _____ | Dredge spoils _____ |
| Bridges _____ | Pipes _____ x |
| Waterfalls _____ | Other _____ |

2. Note the approximate length of the stream that is effected by the following:
if assessing a wetland, lake or pond, some of the following may also affect your waterbody

| | | | | |
|--------------------------------|-------|---------|---------------|--------------------------|
| Stream culvert | 30 | feet or | _____ mile or | _____ % of stream length |
| Stream straightening | _____ | feet or | _____ mile or | _____ % |
| Concrete streambank/bottom | 5 | feet or | _____ mile or | _____ % |
| Dredging/channeling | _____ | feet or | _____ mile or | _____ % |
| Riprap/gabion | 500 | feet or | _____ mile or | _____ % |
| Cattle crossing | _____ | # | | |
| Stream crossing (for vehicles) | _____ | # | | |

3. Note extent of vegetative buffer along the banks: *at a minimum of 5 sites, at regular intervals (every 500 ft. in a 1/2 mile. section) note the following*

| # | Width in feet | Location (Left bank, Right bank or N, S, E, W side of wetland or lake) | Characteristics and comments |
|---|---------------|--|---|
| 1 | 100 | Left bank looking downstream | Shrubs, trees, grasses. No manmade structures. Completely vegetated. |
| 2 | 25 | Right bank | Riprap on bank. Buffer only mowed grass. A few small trees. |
| 3 | 100 | Left bank, 500 ft from site 1 Behind Johnson's house | Shrubs, trees, grasses. No manmade structures. Completely vegetated. |
| 4 | 25 | Right bank, 500 ft from site 2. Across from site 3. | Vegetation is ivy. After ivy, there is a concrete parking area. |
| 5 | 50 | Left bank, 500 ft from site 4 Behind subdivision. | All vegetation is mowed grass. The banks look eroded here. |
| 6 | 50 | Right bank, 500 ft from site 4. Behind the restaurant. | 500 ft buffer left to grow wild. Variety of small trees and shrubs, some trash |
| 7 | 10 | Left bank, 300 ft from site 5 | A deck with cement base built in buffer zone. Grass is the vegetation along the stream. |
| 8 | 50 | Right bank, across from site 7 | Well vegetated with trees and shrubs. No ground layer. |
| 9 | 40 | Left bank, 500 ft from site 7 | Stream side has shrubs and long grass, the rest of the buffer is mowed grass. |

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4. Check the categories that best describe the general appearance of the water body:

Litter:

- No litter visible
- Small litter occasionally (i.e., cans, paper)
- Small litter common
- Large litter occasionally (i.e., tires, pallets, shopping carts)
- Large litter common

Special Problems:

- Spills of chemicals, oil, etc.
- Fish kills*
- Wildlife, waterfowl kills

Erosion:

- No bank erosion or areas of erosion very rare; no artificial stabilization
- Occasional areas of bank erosion
- Areas of bank erosion common
- Artificial bank stabilization (e.g., riprap) present

* Fish kills should be immediately reported to DNR Wildlife Resources Division at (706) 557-3333. For more information, go to georgiawildlife.com.

5. Comments on general water body and watershed characteristics: (e.g. date and size of fish kill, increased rate of erosion evident, litter most evident after storms)

The neighborhood is changing some with new buildings and houses being constructed. Overall though, it is a stable, old neighborhood. Property owners with access to streams need to be more aware of their potential impacts, thus there is a need for more education.

6. Summarize notable changes that have taken place since last year (if this is not your first year conducting the Watershed Survey).

This is our first year.

EXAMPLE FORM

IV. PIPE AND DRAINAGE DITCH INVENTORY

In this section, provide information on each pipe and drainage ditch found on the banks or in the waterbody. These pipes/ditches can be abandoned or active.

| Pipe # | Location | Type | Size | Flow | Waterbody condition | Comments |
|--------|---------------------------------------|-----------------------------------|-------|------------------------------------|-----------------------------|---|
| 1 | In right bank | Galvanized storm drain from road. | 24 in | none | No problem evident | |
| 2 | Right bank behind apartment buildings | Concrete. Use unknown. | 15 in | none | Erosion all along the bank. | The pipe may not be in use anymore. |
| 3 | In water | concrete | 24 in | Don't know since it is underwater. | No problem evident | The pipe is running across the stream, not meant to flow into stream. |
| | | | | | | |
| | | | | | | |
| | | | | | | |