Chapter 3

MONITORING FORMS

- Registration Form
- Watershed Survey and Map Assessment Form

Return form to:

Georgia Adopt-A-Stream 4220 International Parkway Suite 101 Atlanta, GA 30354

Stream

GEORGIA ADOPT-A-STREAM Stream / Wetland / Lake Registration Form

Complete the following form for each stream segment, wetland or lake you monitor. We must have a completed form on file at the state office in order to include your efforts on our web site and database.

Saltwater Wetland

Lake

This form is to register the monitoring of a: (Circle one)

Freshwater Wetland

Name of stream / wetland / lake you are monitoring (official name)
Lead Coordinator / Contact
Complete Mailing Address
Phone Number(s)
E-mail Address
Topographic Map Quadrangle (include copy of map) on which your waterbody can be located
Watershed (from 8 digit HUC map)
Latitude Longitude
County Today's Date

Do not send in your registration form without a map. The map must be a copy of a topographic map (see how to obtain maps on page 43) with an X marking your monitoring site. To easily obtain a map and the lat/long for your site from the web go to www.topozone.com (see detailed directions on page 46).

1.	Describe the location of your monitoring site (i.e. 25 yards downstream of North Decatur Road crossing in Emory Village).
2.	What is the name of your monitoring group? (i.e. Scout Troop 101, Friends of Hayworth Park, Dukes Creek Ducklings)?
3.	If associated with a larger group (i.e. Big Creek Watershed Association) please list them here.
4.	Who are your partners (partners may contribute equipment, provide skills or services, provide technical support or grant you access across their land)?
5.	What are the goals you hope to accomplish with the Adopt-A-Stream (Wetland or Lake) program?
6.	What equipment or supplies do you need to achieve your goals?
7.	Where will you send the data you collect?
8.	Name of the local official or agency that you have informed about your program.
9.	Name the QA/QC data collectors in your group.

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GEORGIA ADOPT-A-STREAMWatershed Survey and Map Assessment

To be conducted at least once a year

AAS group name:	Investigator(s):
Type of waterbody: stream / wetland / lake	
Water body name:	County(ies):
Approximate size of drainage/study area:	acres
Date: Time:	Picture/photo documentation? Yes/No

I. CREATE A MAP OF YOUR WATERSHED

A copy of this map should be included in your Registration Form to be filed with the State Georgia Adopt-A-Stream office.

II. LAND USES/ACTIVITIES AND IMPERVIOUS COVER

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

Check all boxes that apply, describe the location of the activity(ies) under Notes on Location & Frequency of Activities and also mark the locations on your map. If too frequently occurring to record locations, so note. If you don't know some of the information below, write DK under Notes.

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 distu development or const utilities, roads & bridg	ruction of			
Large or extensive gu	ıllies			
Unpaved roads near	or crossing streams			
Croplands				
Pastures with cattle a	ccess to water bodies			
Commercial forestry a harvesting and site-pr				
Extensive areas of str channel enlargement	reambank failure or			
Other Agricultural Activ	rities			
Confined animal (catt operations and conce				
Animal waste stabiliza	ation ponds			
Poultry houses				
Highways and Parking	Areas			
Shopping centers & c	ommercial areas			
Interstate and control and interchanges	led access highways			
Major highways and a	arterial streets			
Other extensive vehic	ele parking areas			
Mining				
Quarries with sedime flowing streams	nt basins in live			

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

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

^{*} If found (most likely during stream surveys), these activities should be immediately reported to the local government or the EPD regional office. These phone numbers are listed in the Who to Call List on page 55.

Optional

2. Percent impervious surface: acre overlay, example map and acreage calculating grid in Appendix A. Example form in Chapter 5.

Coverage category for LANDUSE MAP method	impervious quotient	times	percent of	percent of impervious cover
Forest/open land/undeveloped land/vacant/land owned by institutions	.005	Х		%
Agriculture/pasture/cropland	.005	х		%
Single family residential (1.1 - 5 acre lot or no more than 1 dwelling per acre)	.12	х		%
Single family residential (.5 - 1 acre lot or 0 – 2 dwellings per acre)	.19	х		%
Low density residential / single family residential (.255 acre lot or $0-4$ dwelling units per acre)	.26	x		%
Low/medium density residential (.25 acre lot or smaller or 0 –8 dwelling units per acre)	.48	x		%
Medium density residential (0 –12 dwelling units per acre)	.56	х		%
High density residential (18 – 30 dwelling units per acre)	.65	x		%
Townhouse/apartment	.48	Х		%
Office/light industrial (assembly, finishing, packaging products)	.70	Х		%
Heavy industrial (timber, chemical, cement, brick plants, lumber mills)	.80	х		%
Commercial (business districts, commercial strip development, shopping centers, warehouses, parking lots, office buildings	.85	Х		%
Major roads	.90	x		%
	Total percent impervious su		covered by	%

Land use categories and quotient provided by the Atlanta Regional Commission

III. GENERAL WATERBODY AND WATERSHED CHARACTERISTICS

This information will be gathered from your wetland, lake or stream segment.

1. Note the number of hydrologic modifications on your waterbody: structures that alter

ı	vater flow			-	_	
	Noi	ne	Beaver dan	1s	_	
	Daı	ms	Dredge spo			
	Brio	dges			_	
		terfalls	Other		=	
			•		_	
			gth of the stream e of the following m			following: if assessing erbody
	Stre	eam culvert	fee	t or	_ mile or	$_{-\!-\!-}$ % of stream length
	Stre	eam straightening	fee	t or	mile or	%
	COI	iciele sileanibanik	166	ι OI	_ 111116 01	/0
	Dre	dging/channelization	onfee	t or	_ mile or	%
	Rip	rap/gabion	fee	t or	_ mile or	%
	Cat	tle crossing		#		
	Stre	eam crossing <i>(for v</i>	rehicles)	#		
			buffer along the			f 5 sites, at regular
I	ntervals (e	every 500 ft. in a $1/2$	mile. section) note	the followi	ing	
#	Width in feet	Location (Left ba N, S, E, W side of		Characte	eristics and o	comments
1		, , ,	,			
2						
3						
_						
4						
5						
6						
7						
<i>(</i>						
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8						
9						
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4. Check the categories that best describe the general appearance of the waterbody:					
Litter: No litter visible Small litter occasionally (i.e., cans, paper)					
Small litter common					

Large litter occasionally (i.e., tires, pallets, shopping carts)

Special Problems:

Spills of chemicals, oil, etc.

Fish kills

Wildlife, waterfowl kills

Large litter common

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 (i.e., riprap) present

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

* Fish kills should be immediately reported to DNR Wildlife Resources Division at 770-918-6400

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

IV. PIPE AND DRAINAGE DITCH INVENTORY

In this section, provide information on pipes and drainage ditches found on the banks or in the waterbody. These pipes/ditches can be abandoned or active. Note the information for each pipe or drainage ditch you observe. *Make additional copies as necessary*.

Pipe #	Location	Туре	Size	Flow	Waterbody condition	Comments

- 1. Number each pipe/ditch for mapping/locating purposes
- 2. <u>Location</u> of pipe/ditch: note whether in water, bank, near waterbody or other. Describe location.
- **3. Identify type of pipe (list all that apply):** PVC, iron, concrete, galvanized; industrial outfall, sewage treatment plant outfall, storm drain, combined sewer overflow; agricultural field drainage, paddock or feedlot drainage, settlement basin/pond drainage, parking lot drainage, unknown, other
- 4. Size: measure approximate diameter of pipe: inches or centimeters
- **5. Describe the discharge** <u>flow:</u> Rate of flow: none, intermittent, trickle, steady, heavy Appearance: clear, foamy, turbid, oily sheen, color, other Odor: none, rotten eggs/sewage, chemical, chlorine, other
- 7. Waterbody condition: describe the bank/waterbody below pipe or drainage ditch: no problem evident, eroded, sewage litter (e.g. toilet paper), litter (e.g. bottles, cans), lots of algae, other
- **8. Comments of pipes and drainage ditches:** Use this space to explain or expand on information provided on pipes and discharges you have identified above. For example, you may want to identify particular facilities, or discuss in more detail the condition of the waterbody below the discharge. Use separate page if necessary.