

## **Haw River Watch Survey**

Return to: Haw River Watch Program, P.O. Box 187, Bynum, NC 27228 (919) 542-5790/ kaitlyn@hawriver.org

Data entered:
Date entered:
Office use only

The purpose of this form is to aid you in gathering & recording important data about the health of your stream and to document changes in water quality. Refer to the Haw River Watch Manual & the Macroinvertebrates ID Chart for additional information.

TEAM INFORMATION			
Team Name	Site ID	# of participants:	
Stream	Location County		
Survey Leader	Phone #	Email	
Date Start time	e End time	Survey Scribe	
STREAM INFORMATION			
Air temperature°F Water ten	mperature°F Flow rate	e: 🗖 High 🗖 Normal 🗖 Low	
Weather conditions (last 3 days)			
Chemical testing: pH Trai	ž , , , , , , , , , , , , , , , , , , ,		
MACROINVERTEBRATE COUNT I			
•		ample bottom in several places; and sample	
under bank, leaf mat, & woody debris.	Once sampling & identification are	complete, place a checkmark next to each	
type of macroinvertebrate identified &	list the total number found. Add up	the number of checkmarks in each	
category (pollution sensitive, semi-poll	ution sensitive, & pollution tolerant	) & multiply those numbers by the indicated	
index value.			
Pollution Sensitive	Semi-Pollution Sensitive	Pollution Tolerant	
(ex: <b>1</b> 0 Caddisfly)	(ex: <b>☑</b> 9 Clam)	(ex: ☑10 Leech)	
Caddisfly (no net spinners)	Alderfly Larva	Aquatic Worm	
Gilled Snail (right-handed)	Beetle Larva	Black Fly Larva	
Mayfly	Clams	Leech Midge Fly Lerve	
Riffle Beetle	☐ Clams ☐ Crane Fly Larva	☐ Midge Fly Larva ☐ Mosquito Larva	
☐ Stonefly ☐ Water Penny	Crayfish	Pouch (and other) Snails	
Water remy Watersnipe Fly Larva	Damselfly Nymph		
weetompe i ij zui w	Dobsonfly (Hellgrammite	e)	
	Dragonfly Nymph		
	Fishfly Larva		
	Mussels		
	Scud Sowbug		
# of <b>checkmarks</b> x 3= index value	_# of <b>checkmarks</b> x 2= index value	e# of <b>checkmarks</b> x 1= index value	
Water Quality Rating: Now add the thr	ree totals from each column for your str	ream's index value. Total index value =	
Excellent ( > 22 )	Good (17 - 22) Fair (	11 - 16) Poor ( < 11)	
ALGAE			
[Phytoplankton type algae] Is water dis	colored (green, bright blue, red)?	YesNo	
[Filamentous type algae] Is there a thick	k algal mat of "hairlike" strands (gro	een, blue-green, black, yellowish)?Yes	
[Periphyton type algae] Are rocks & log	gs covered with beard-like growth (g	green, blue-green, golden brown)?Yes1	
[Diatomaceous type algae] Is there brown	wn slimy algae on rocks? Yes N	No	
		red (for one stream-width by one stream-wid	
Are you seeing an unusual amount of a	algae?YesNo		

FOAM	ODOR	SURFACE WATER APPEARAN	CE BARRIERS TO FISH
☐ No foam	☐ Rotten Eggs	☐ Clear	☐ Did you see fish?
	<b>■</b> Musky	☐ Clear but tea-colored☐ Cloudy	If yes, roughly how many?
■ Natural foam [ivory brownish; <8" high;		☐ Muddy	☐ Beaver dams
earthy, fishy or fresh cut	Petroleum	Milky	☐ Man-made dams
grass smell]	■ Sewage	☐ Colored sheen (oily)☐ Grey	■ Waterfalls ( > 1 ft.)
☐ Unnatural foam from	None	☐ Black	
human activity [bright white; >8" high; fragrant,		Foamy	□ None
perfumed or soapy odor]	Other ()	Green (suspended algae) Other ()	Other ()
STREAM HARIAT SURVE	V· The following aspec		en. Fill in this section on your first
			ges. Take initial photos of upstrear
-		lude additional photo(s) to record	• • • • •
•	· ·	• ` ` `	•
Avg. stream width ft. Avg	, -	our times stream width) to answe	i questions below.
Has the stream been channeliz	•		
Is the stream channel natural of		No	
Does the stream have access to	<del>-</del>		
Is there rip-rap in the stream?	-		
STREAM BUFFER			
	rubs, mosses) looking o	lownstream: ft. left of bank	ft. right of bank
Description of stream buffer	,		
Stream Sides	Stream Shade	Stream Bed (bottom) (=100°	%) Stream Buffer
Are banks eroding?	Check the box that best of	` ′	Composition (=100%)
_Yes _No	the level of shade:% sand (1/16" - 1% gravel (1/4" - 2		,, , , , , , , , , , , , , , , ,
% Bare soil on banks (no	Best (25 - 90% - sun c	` `	
rocks, logs, plants)	<b>_</b>	% boulders ( >10" ston	% grass
Are the banks becoming higher?	Good (>90% - almos shade)	st total% dead leaves Bed sinks beneath your feet	
_Yes _No		no spots	% rocks
Is the stream widening?	Poor (<25% - almost shade)		
YesNo	snade)	many spots% other ()	
LAND USES IN THE WAT	<b>ERSHED</b> (Indicate if	the following land uses are present	at in watershed. (1 mi. upstream)
Agriculture Uses	Homes & Roads		rial Uses
Animal Operations (type)			
Cropland (type)	Urban Uses	Housing Development Gas & Oil	
Livestock Pasture	☐ Urban Uses ☐ Sanitary Landfill Please describe: ☐ Trash Dump		
Logging	<u> </u>	Lit	tter (type)
☐ Biosolid/Sludge	Road Consti	ruction No	one
None	None		
Other land uses:			
Discharging Pipes			
Any present? _Yes _No I	f yes, how many?	-	
What type of pipes? ☐ Runof	f (field/ stormwater)	☐ Sewage treatment ☐ Industri	al (type)
	· ·		
<b>,</b>			
			_