

Illustrated Site Survey - "StreamWalk"



Water Quality Test Site Information

Investigators:

Site Name:

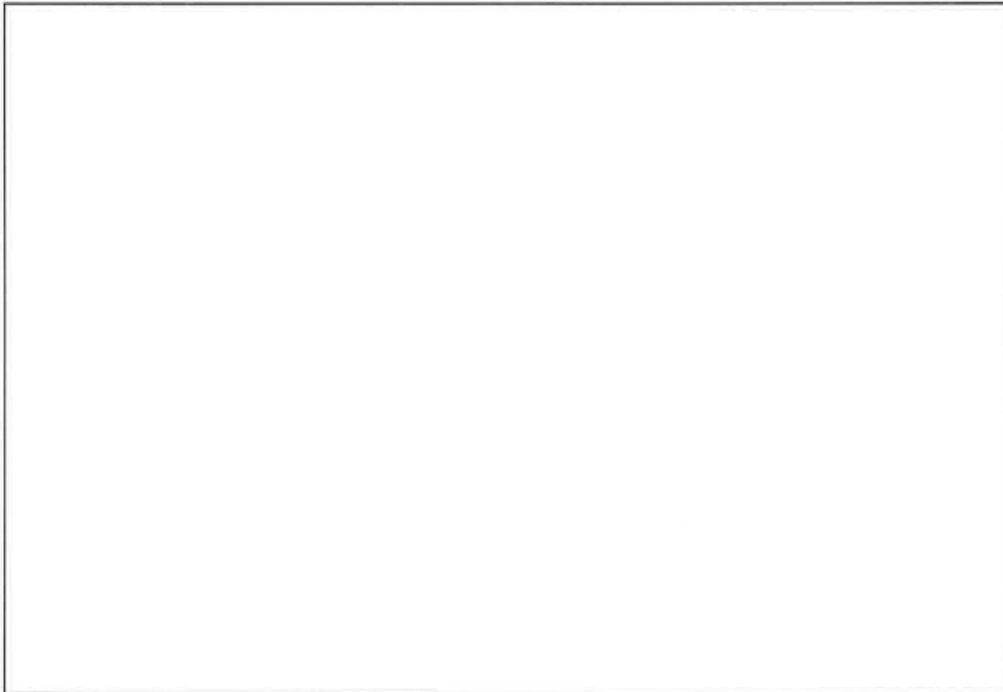
Stream/River Location:


Longitude: ____° ____' ____" Latitude: ____° ____' ____"

Nearest Street Access:

Public Access ___ Yes ___ No

Draw a map that shows how to get to the stream from your school.



Weather 

___ Storm

___ Rain

___ Showers

___ Overcast

___ Clear

Date of Last Storm _____

Temperature _____ °F or °C

Make a drawing of the weather

Stream Description (at testing site)

1. Depth: _____ feet ___measured ___estimated

Width _____ feet ___measured ___estimated

2. Clarity: Does the water appear _____clear ___cloudy

3. Check if Present: ___pools ___riffles ___runs

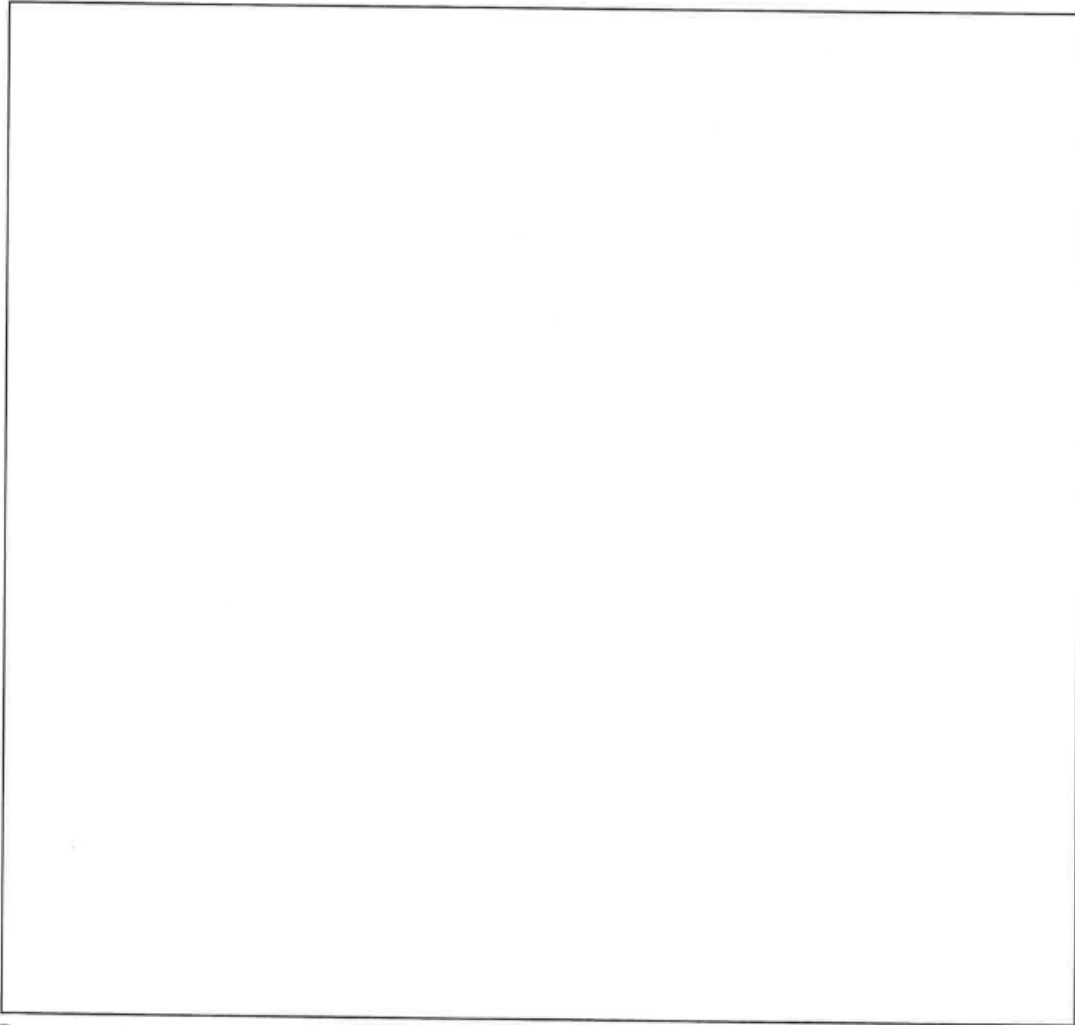
4. Stream Bottom (put an X in box of most common/prevalent, check others present)

___ Silt/Mud	___ Sand
___ Gravel (.1-2")	___ Cobbles (2-10")
___ Boulders (over 10")	___ Solid Bedrock

Streamside Vegetation

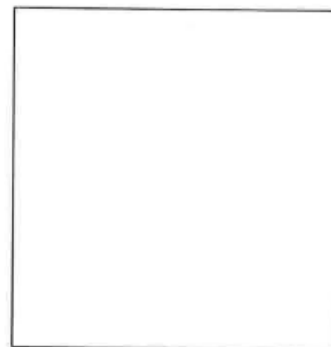
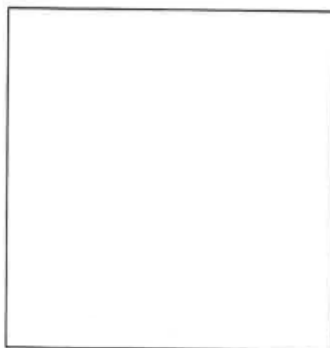
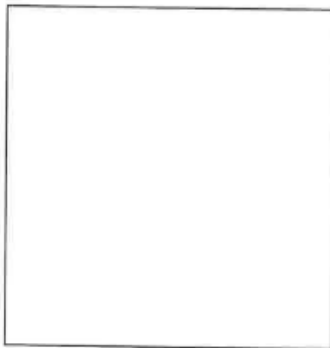
Vegetation Type	Common	Occasional	None/Sparse
Conifers			
Deciduous			
Small Trees and Shrubs (less than 20' high)			
Grasses			
Invasive Species			

Make a drawing of the stretch of stream that you are observing. Note the pools, runs and riffles, also note the areas of rocks and sand on the stream bottom. Note the gravel bars. Note the areas of vegetation.



Do you notice any leaf litter in the stream? yes no

Draw the shape of the leaves you notice.



Stream Conditions (Be sure to include these when you sketch and label your drawing.)

Check All That Apply

Stream Banks		Present	Stream Channel		Present
Streamside vegetation trampled			Mud/silt entering the stream		
Banks Collapsed/Eroded			Stream Modification (culverts, dams or other in-stream structures)		
Banks artificially reinforced (concrete, rip rap, etc.)			Excessive vegetation in stream (algae, canary grass)		
Debris/trash adjacent to stream			Debris/trash in stream		

Other		Present	Additional Observations (human activities, animals, etc.)		Present
Cattle or other livestock (in stream or with unrestricted access to stream)					
Discharge pipes entering stream					
Drainage ditches entering stream					
Leaf litter in stream					

Adjacent Land Uses – at the site and immediately upstream and downstream

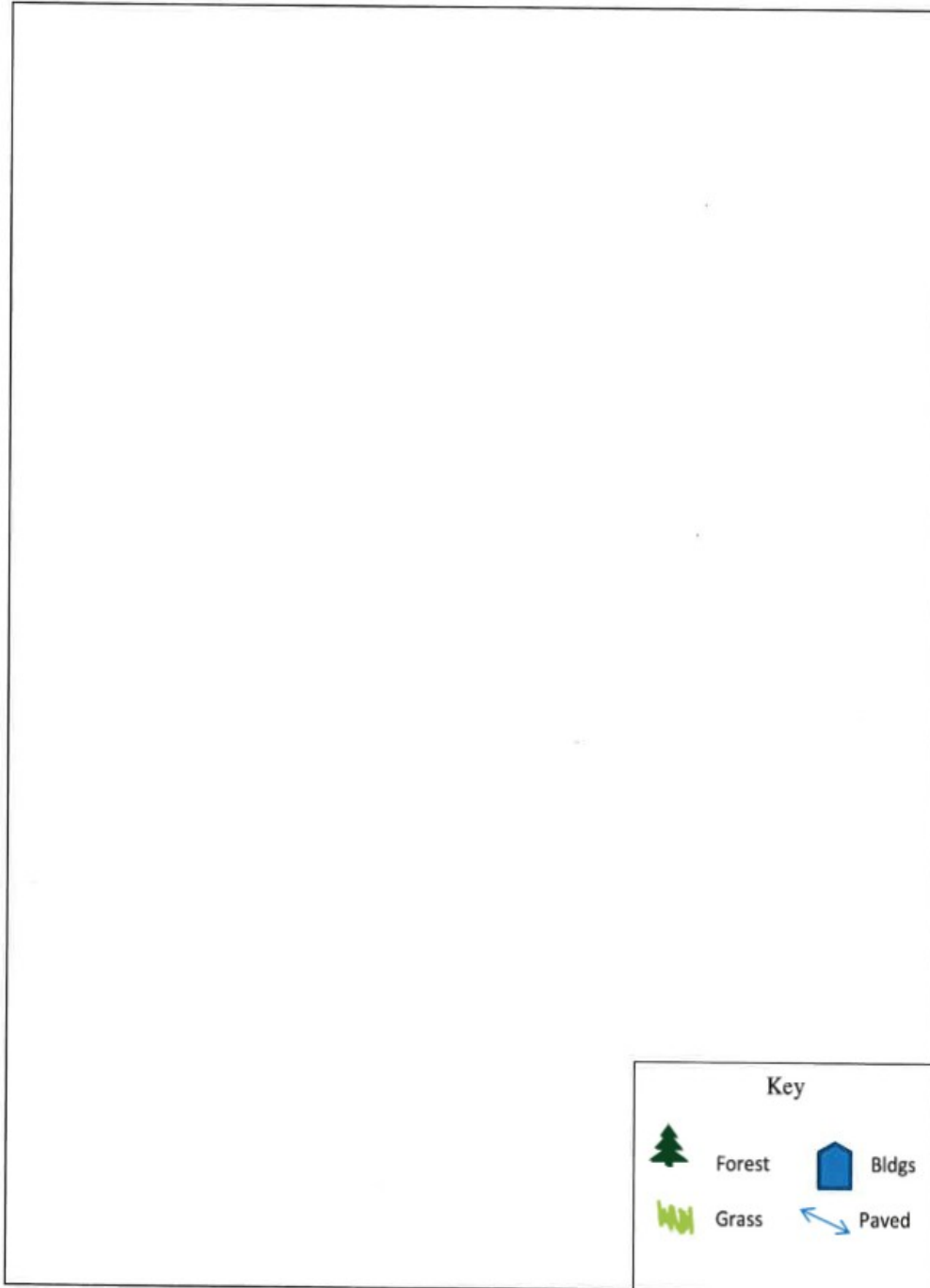
(You may need to use paper, digital maps and/or other sources back in your classroom to complete these charts.) (Put an X for the most common/prevalent. Put a √ if others are present.)

Residential		X or √	Agricultural		X or √
Single Family housing			Grazing/Pasture Land		
Multi-family housing (apartments, townhomes, etc.)			Barns or other animal holding areas		
Commercial Development (shopping center, mini-mall, etc.)			Cropland		
Light Industry			Logging/Tree Plantations		

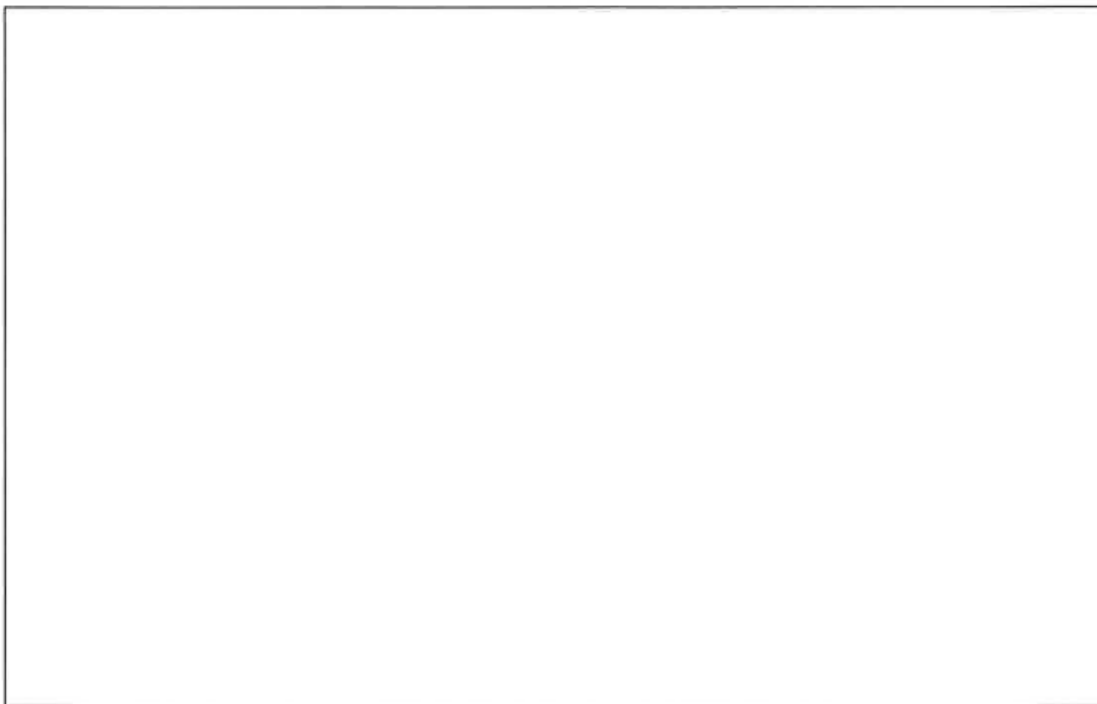
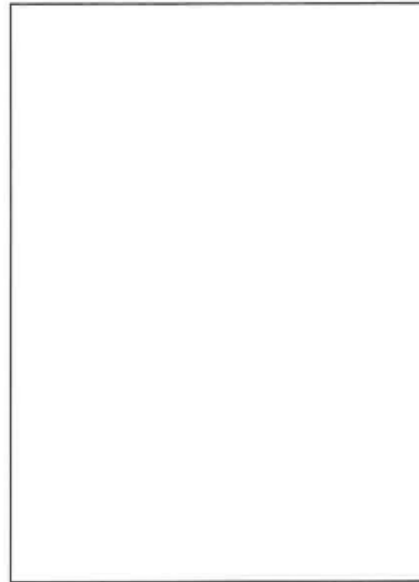
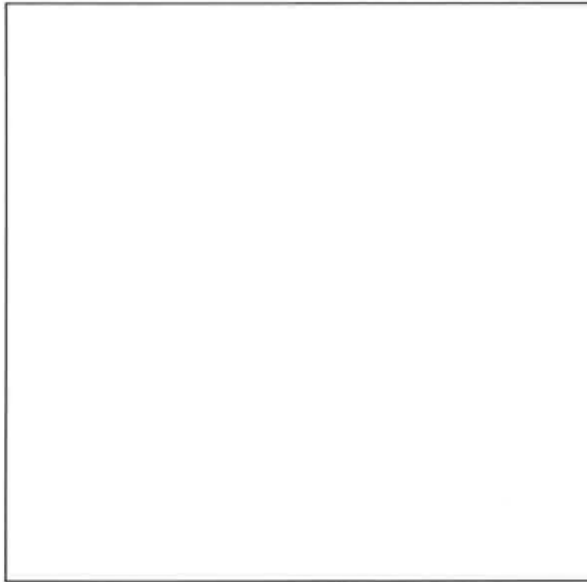
Roads/Pavement		X or √	Construction Activity		X or √
Paved Roads			Residential housing units		
Parking Lots			Commercial developments (shopping center, mini-mart, etc.)		
Unpaved Roads			Industrial		
Culverts			Roads or parking lots		

Google Map the land adjacent to the stream location. Based upon the Google Map, draw a map that includes labels for the various nearby land uses.

Stream with Adjacent Land Uses:



Additional Observations: Make drawings of three things you notice at the site. This could include leaf shapes of the trees, shrubs or herbs; insects; rocks; birds, water, textures, water testing, etc.



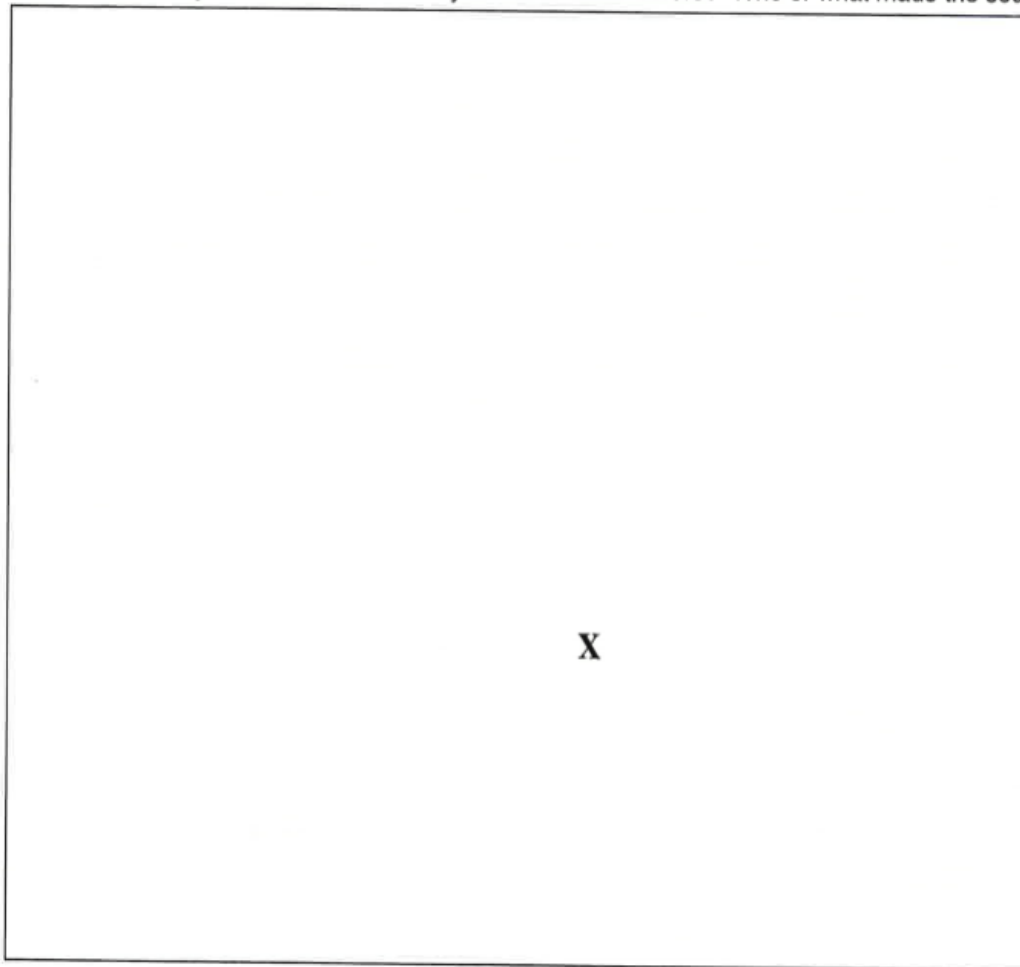
SOUND MAP ACTIVITY

The box below is a map, and the X shows where you're sitting. When you hear a sound, make a mark on the page that describes the sound. The marks should be interpretive, not literal; you don't have to draw pictures of plants and animals, just a few lines indicating wind, or a musical note indicating a songbird. Spend most of your time listening not drawing!

Keep your eyes closed while you listen. Cupping your hands behind your ears will provide a reflective surface for catching sounds, creating a shape like the sensitive ears of a fox or deer. To hear sounds behind you, don't turn your head, but just cup your hands in front of your ears.

After you have drawn your map, answer the following questions:

How many different sounds did you hear? Which sounds did you like best? Why? Which sounds did you like least? Why? Which sounds had you never heard before? Who or what made the sounds?



Modified from EPA Stream Walk Survey, and Illustrated Site Survey, Lucia Harrison, Evergreen State College, Olympia, WA. February, 2011