

Report Form Water Quality of Streams and Lakes (Ages 9-11)



No. 20

Name: _____ Dates of observations: _____

County _____

Year working on project (circle one): 1st 2nd 3rd

Report on either (a) 2 streams or 2 lakes or (b) one stream, lake or pond at two different times of the year. Complete a separate report form for each stream or lake and for each observation. Hole punch and put your report form and any extra pages in a folder with brads or a 3-ring binder. This will prevent any pages from getting lost.

Safety: Always go with an adult to your stream. When testing a the stream or lake do not attempt to take any measurements unless it is safe to do so. Do not sample in fast moving or deep water. Wear the appropriate clothing for the site (old tennis shoes, long pants). If the stream or lake is on private property, be sure to get permission before going to the site.

Location of stream or lake, including a map (e.g., 4 miles east of Ada on Highway 1)

Take four photographs which show an overall picture, of the project area. One of these pictures should be an overall view of the stream, with the others showing major characteristics present along the stream. Include these photographs with your project and a brief statement explaining why you chose to photograph these areas. Label the pictures according to site and direction of view. Example: "View of vegetation along north shore" or "view of vegetation on west bank (facing downstream)"

Try to answer the following questions. Be as specific as possible. Add any other information that you think is important at the bottom of each section. Refer to fact sheet Lit # 19, *Water Quality of Streams and Lakes* for explanation and illustrations.

Bank/Shore

	What is the slope of the bank? scribe)	gradual	_steep		undercut	other (If other	, please de-
	What is the soil type? (check the m			-	-	-	-
3.	Is the bank eroded? (check the mo	ost appropriate one)		_Heavily	Somewhat	Not n	nuch erosion
 4. Is there vegetation growing on the shore or bank?yesno If yes, does it seem to hold the soil in place?yesno Describe the vegetation. (trees, flowers, grass, bushes) 							

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5. Describe what is near the shore or bank? (houses, pastures, roads, gardens, cropland, woods, parking lot, shopping center,other)

 6. Are there any wild or domestic animals living on or in the shore or bank? (If not sure, look for tracks)yes What kinds of animals? List the animals you can identify 7. Is there any trash or evidence of some type of pollution?yesno If yes, what kind?
7. Is there any trash or evidence of some type of pollution?yesno If yes, what kind?
Stream and Lake Bottom 1. What is the soil type?sandyrockygravelother (explain)
2. Are there any plants growing on the bottom?yesno If yes, are theysubmergentemergentemergentemergent
3. Can you find any animals or insects living on the bottom? Hint: You may need to turn over some rocks to see if there are any living under them, or pass a small dipnet through areas of plants or over the surface of the mud on the bottom Look carefully, some are very, very tinyyesno Describe any animals you see and describe their habitat.
4. Is there any garbage or other material on the bottom that does not belong there?yesno Describe.
The Water and What Lives There 1. Is the water clearmuddy? If this is a lake, what is the secchi depth (in feet and inches)?

2.	Is there any garbage or pollution floating in the water?yesno
3.	Is there any natural debris floating on the water? (logs, leaves)yesno Describe the debris
	Are there any fish or other animals living in the lake or stream? Describe them and tell how you were able to observe themyesno
	If this is a stream, what is the velocity of the current? (Distance/time) What is the color of the water?greenorange-redmuddy/cloudymilky/white multi-colored (oily sheen)clearothers (If other, please describe)
7.	How is this stream being used by people now? (Drinking, washing clothes, waste disposal, transportation, watering livestock, recreation)

History

1. Interview an adult about the history of a stream or lake that they have lived by. On a separate sheet of paper, list the name of the person you interviewed, the length of time they have lived near the waterbody, and some the questions that gave you useful information and their answers. Also, write a short paragraph telling what you learned from the interview. (Limit to one page)

2. **(Optional)** Did you locate any old photos? If so, write a paragraph about what you learned from them. Include a hand drawn map or diagram, if it will help the reader understand the changes.

Fair Exhibits

Your fair exhibit must have two completed report forms.

Be sure to include:

- a map with location marked
- four photos of the stream
- history interview and optional photos

2nd and 3rd year projects

1. Write one or more paragraphs (not to exceed one page) comparing what you found this year with previous years and describing any changes. Include previous years reports in your folder or a 3-ring binder.