

## Water Source Map

List the Activities people participate in at or near this water source.	Explain how these activities could impact the water quality.	Symbol for Key

1. On the map, mark where these activities take place using information from the NC parks website/brochure or a local map.
2. Create a key using the symbols from the table above.

List activities from the surrounding area that may affect the water. (homes, streets, companies, ...)	Explain how these activities could impact the water quality.	Symbol for Key

3. On a new map, mark where these activities take place using the map of the surrounding area.
4. Create a key using the symbols from the table.
5. On a third map, mark where pollutants such as soaps, fertilizers, gasoline, pesticides, and litter may enter the water source.
6. Create a key for the pollutants.



## Water Monitoring Plan

Using the maps you created, you will create a water monitoring plan for your water source.

1. Would you like to create a plan that monitors : (choose one)

- Overall Water Health
- Drinking safety
- Swimming/ Recreational Safety
- Aquatic Life Safety

2. Before beginning the plan, be sure to consider:

Should the samples be taken from one place or multiple places?

Where (specifically) the water samples should be taken from?

How often should water be tested (daily, weekly, biweekly, or monthly)?

What time(s) of day should water be tested?

What tests should be run?

What depth should the samples be taken from? Should there be one or multiple depths?

3. Complete the Experimental Design Graphic Organizer

4. Write the Water Monitoring Plan

5. Complete the Water Monitoring Plan Questions

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## **Water Monitoring Plan Questions**

Using what you know:

Specifically, how would a heavy rain affect the water quality at each site? Why?

How would terrestrial (land) life be affected by this rainfall? Why?

How would aquatic wildlife be affected by increased pollution at each site?

How would terrestrial wildlife be affected by increased pollution near the shore line?

How would humans be impacted by increased pollution at this water source?