

Name \_\_\_\_\_



# EROSION PREDICTION AND EVALUATION WORKSHEET

In the box provided, draw your river and buildings before water is added.

## MAKE PREDICTIONS:

What do you think will happen when slow-moving water is introduced to the river? Why?

What do you think will happen when fast-moving water is introduced? Why?



**VISION ZERO**  
zero deaths - zero serious injuries  
MONTANA DEPARTMENT  
OF TRANSPORTATION

Alternative accessible formats of this document will be provided on request. Persons who need an alternative format should contact the Office of Civil Rights, Department of Transportation, 2701 Prospect Avenue, PO Box 201001, Helena, MT 59620. Telephone 406-444-5416 or Montana Relay Service at 711.

## **OBSERVATIONS:**

**What effect, if any, did the slow-moving water have on the riverbank and the structures?**

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**What effect, if any, did the fast-moving water have on the riverbank and the structures?**

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**Did the water have a greater effect on the straight sections or curved sections of the river?**

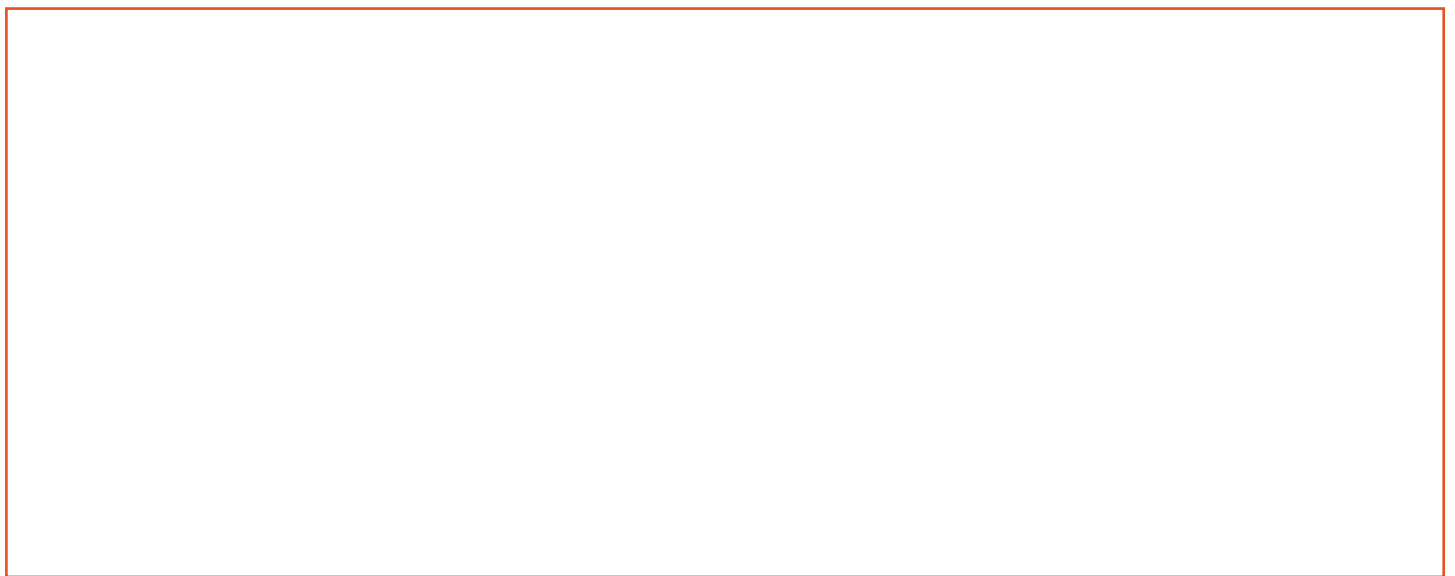
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**In the box provided, draw a picture of river, buildings and erosion prevention structures prior to adding water a second time to the river.**



## **MAKE PREDICTIONS:**

**How will your structure prevent erosion and protect the riverbank?**

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**Will your erosion structure change the course of the water?**

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**How will your structure stand up to the fast-moving water and high water levels?**

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## **OBSERVATIONS:**

**Did your structure successfully protect the riverbank and buildings from the effects of erosion?  
Why or why not?**

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## **EVALUATION:**

**If you were to do this experiment again, what would you do differently? What changes would you make to your structure? Would you use different materials to build your structure?**

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**What did you learn?**

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