

School Stormwater Map

Directions: You will create a stormwater map of your school. Follow the steps below. Write your work on the attached map. There is an example provided for you on the back side.

- 1. Draw the perimeter of your school grounds.
- 2. Measure the length of each side, and write it down on your map.
- 3. Figure out the total perimeter of your school.
- 4. Figure out the total area of your school grounds.
- 5. Determine the amount of rain that falls on the school grounds each year. See example.
- 6. Draw and label the different areas of your school grounds:

 _Buildings
 _Paved areas: parking lots, sidewalks, and roads
Grass and plants

- 7. Measure the length of the parts.
- 8. Determine the perimeter and area of each

	Perimeter	Area
Buildings		
Parking lots		
Grass and plants		

9. Label each area as permeable or impermeable.

	Permeable	Impervious
Buildings		
Parking lots		
Roads		
Grass and plants		

- 10. Determine the total area of impermeable surface area.
- 11. Find the percent of impermeable surface.
- 12. What volume (in cubic feet) of water falls on impervious surfaces at your school per year? Bonus: Convert cubic feet to gallons (1 cubic foot = 7.48 gallons).

120 feet



<u>4,775 X 100</u> = 40% 12,000 <u>Sum of impermeable areas x 100</u> Area of school grounds