**Evaluating Tree Benefits Name(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Location:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date:\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Select a tree to study. Use a field guide or other source to determine the tree’s species.

 Tree Species: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Determine the tree’s diameter at breast height (DBH), and then measure the tree’s height. Methods

 for collecting these measurements are described at the end of this student page.

 DBH: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ inches

 Height: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ feet

3. Visit the Tree Benefits website (http://www.treebenefits.com) to determine the ecological services

 that your selected tree provides by entering the species name and DBH (in inches).

 Record your findings below.

**Overall Benefits**

At current size: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a year

If it continues to grow: $\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a year

**Stormwater**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gallons of storm water intercepted a year

**Property Value**

$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Energy**

Electricity conserved (for cooling): \_\_\_\_\_\_\_\_\_\_\_\_\_\_ kilowatt/hours

Oil/Natural gas conserved (for heating): \_\_\_\_\_\_\_\_\_\_\_\_\_\_ therms

**Air Quality**

Ozone (O3), deposited: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Volatile Organic Chemicals (VOC), avoided: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Nitrogen Dioxide (NO2), deposited: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Nitrogen Dioxide (NO2), avoided: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sulfur Dioxide (SO2), deposited: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sulfur Dioxide (SO2) avoided: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Particulates less than 10 microns (PM10), deposited: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Particulates less than 10 microns (PM10), avoided: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Carbon Dioxide (CO2)

Total pounds of atmospheric carbon reduced: \_\_\_\_\_\_\_\_\_\_\_

4. Describe any other ecosystem services or benefits provided by this tree.