

## Calculating Rain Garden Volume and Materials

AREA is Length x Width = Square Feet (sq.ft. or Ft<sup>2</sup>)

VOLUME is Length x Width x Depth = Cubic Feet (cu.ft. or Ft<sup>3</sup>)

*NOTE: If ordering from contractors (mulch, sand, stone, etc.), convert your answer from Cubic Feet to Cubic Yards (cu.yd. or Yd<sup>3</sup>) by dividing your Cubic Feet answer by 27.*

### Determine/Select the dimensions of your rain garden:

- 1) Determine the surface area (sq ft) of your proposed rain garden: \_\_\_\_\_
- 2) Select the ponding depth (generally .5 ft or .75 ft): \_\_\_\_\_
- 3) Select the mulch layer depth (generally .25 ft or .3 ft): \_\_\_\_\_
- 4) Select the biosoil layer depth (generally 1 ft): \_\_\_\_\_
- 5) Total depth of your rain garden: (2) + (3) + (4) = \_\_\_\_\_

### Determine materials to be removed:

- 6) Calculate the volume of material to be removed/disposed: (1) x (5) = \_\_\_\_\_
  - a. Convert to cu.yd: (6)/27: \_\_\_\_\_

### Determine materials needed:

- 7) Calculate the volume of mulch needed: (1) x (3) = \_\_\_\_\_
  - a. Convert to cu.yd: (7)/27: \_\_\_\_\_
- 8) Calculate volume of biosoil needed: (1) x (4) = \_\_\_\_\_
  - a. Convert to cu.yd: (8)/27: \_\_\_\_\_

