## **Soil Drainage Test**

This test will help determine if soil conditions in your yard are suitable for a rain garden, pervious pavers, or other infiltration solutions.

- 1. Dig a hole that is 24 inches deep and at least 6 inches across.
- 2. Place a yard stick in the hole with the end flush with the bottom of the hole.
- 3. Fill the hole with water to the 12-inch mark and let the water drain completely.
- 4. Repeat filling hole with water to 12-inch depth and drain a second time (may take overnight).
- 5. Fill the hole with water to a 12-inch depth a third time, making sure it is within 24 hours of the initial fill of water.
- 6. Time how long it takes the water to drain out completely.

Start time (12 inches of water) = \_\_\_\_\_

End time (0 inches of water) = \_\_\_\_\_

7. Divide total inches by total hours to calculate the estimated soil drainage rate (inches/hour).

Total change in water depth ÷ Total hours elapsed = \_\_\_\_\_ inches/hours



If you find any of the following conditions during your test, your location is not suitable for a rain garden or other stormwater infiltration system:

- You hit hard pan (dense clay) while digging your hole
- Your test hole does not drain at least 0.5 inches per hour
- Your test hole fills with water after or during your digging attempt