

RAIN GARDEN SITE AND DESIGN

Please review 'Rain Gardens: Design and Installation in Northwestern Ontario' and your notes from the Rain Garden Training to help you calculate the following values.

Slope

Measured distance between two stakes (run): _____ m

Measured distance between the ground and the string (rise): _____ m

$$\frac{\text{(rise)}}{\text{(run)}} = \text{_____} \times 100 = \text{_____} \% \text{ slope}$$

Soils present (sand, loam, clay): _____

Infiltration test results (1 cm = 10 mm)

1. $\frac{\text{(a)}}{\text{(b)}} \frac{\text{cm}}{\text{hours}} \times \frac{24 \text{ hours}}{\text{day}}$

2. $24 / \text{(b)} = \text{(c)}$

3. $\text{(c)} \times \text{(a)} = \text{_____} \text{ cm per day (d) (up to 30 cm)}$

Rain garden depth = _____ cm (may convert to inches) (d)

Footprint Ratio

1. $\frac{2.5 \text{ cm per day}}{\text{(d)} \text{ _____ cm per day}} = \text{(e)}$

2. $\frac{2.5}{\text{(d)}} = \text{(e)}$

Note: If you have moderate to fast-draining soil, your infiltration test results will yield a very high number (ie. the "d" value in Step 3 – Infiltration Test Results, which indicates your rain garden depth).

In this case, the rain garden depth should be no more than 30 cm, even if your calculations determine that it can be much greater.

Rain garden area

Footprint of home or building: _____ square metres (f)

Percentage of roof area that feeds into rain garden downspout: _____% (g)

$\text{(f)} \times \text{(g)} = \text{_____} \text{ square metres of drainage area (h)}$

Drainage Area x Footprint Ratio = square metres of rain garden

$\text{(h)} \text{ _____} \times \text{(e)} \text{ _____} = \text{_____} \text{ square metres}$

Note: Convert the percentage value (g) to a decimal. For example, 25% = 0.25

Date of site visit: _____

Project Approved

Project not approved

Your progress report is due on: _____ (3 weeks from date of site visit)

Your rain garden must be complete by: _____ (6 weeks from site visit)

Please note: Due to the high volume of interest in this program and the limited number of rebates available, projects that have not met the progress report or completion deadlines may be required to re-apply to the program.

Notes (Staff use only)