**Session 3**

**May 7, 2013 6-9pm**

**Keewaydin Rec Center**

3030 53rd St. E, Minneapolis, MN 55417

Phone: 612 370-4956

**Session Title: Stormwater 101**

**Before this course begins:**

* Prior to the class, students are expected to investigate three different news articles (print or digital) covering the following topics:
  + Flooding event: where did it happen and what was the damage?
  + Impacted water quality (ground water, lakes, streams, wetlands,…)
  + Rain

**Brief Course Description**: The focus of this module will be on gaining a solid understanding of stormwater fundamentals. We will re-visit clean water as a natural resource and talk about the main challenges that are facing clean water. We will discuss how stormwater relates to clean water, why we have problems with stormwater and clean water, and how we can mediate these problems—We make the stormwater and we can manage it.

**Learning Goals and Assessments:**

1. **The big picture**: what are the issues facing our finite fresh water resources.
2. **The problem**: How stormwater relates to clean water: volume (quantity), rate, and quality (pollutions). Mimicking natural hydrology, green hydrology, through low Impact development.
3. **Solutions**: What is in our Stormwater Toolbox to help home owners to minimize runoff associated problems.
4. **There are no silver bullets.** Always solutions, rarely just a solution: the concept of Stormwater Treatment Train, using a series of tools rather than just using one tool.
5. **Our home site**: a system within the system (watershed). Stormwater runoff is a watershed scale problem that can be managed at small scale where the rain falls such as our home sites. (The learner at this stage will initiate the class keystone project.

**Course requirements:**

* Attendance and Participation (Required, unless previously cleared with Program Manager)
* Expectations for Preparation:
  + Prior to the class, students are expected to investigate three different news articles (print or digital) covering the following topics:
    1. Flooding event: where did it happen and what was the damage?
    2. Impacted water quality (ground water, lakes, streams, wetlands,…)
    3. Rain
* Assignments & Assessments:
  + **Assignment #1:** *Essay*. In this assignment, the learners will write their own answers to the question of: what are the issues facing our finite fresh water resources? The answer should incorporate some of their research articles. (30-50 words and completed in 10 minutes)
  + **Assignment #2:** This will be in a series of multiple choice questions utilizing [*Electronic ResponseCards*](http://www.turningtechnologies.com/response-solutions). . The purpose of the exercise is to help students identify the three main problems caused by stormwater and the approaches needed to develop solutions-(10 minutes.)
  + **Assignment #3:** Short answers. Students will identify the main types of Stormwater tools, their functions, and how set of functions can resolve specific problem caused by stormwater runoff. (15 minutes)
  + **Assignment #4:** Draw a diagram illustrating the flow pattern of your home site, and show sources of runoff (10 minutes).

**To prepare for Session 4-**

**Environmental Decision-making and Behavior Change**

* + Read Schultz and Zelezny’s article, “Reframing Environmental Messages to be Congruent with American Values”;
  + Bring a media article that addresses an environmental problem/solution of your choice.