Nature Based Solutions for Groundwater Recharge

Deepti Krishnan Nair (naird@battelle.org) (Battelle Memorial Institute, Columbus, OH)

Background/Objectives. Background/ Objectives. Groundwater is one of the most important natural resources in the world. Many cities and towns around the world rely on groundwater as the primary source of water. Multitude of groundwater use such as withdrawal for agricultural, industrial and municipal has resulted in declining groundwater levels in many geographical regions. Water is an important global commodity and increasing populations will continue to add to the growing demand of water. It is imperative to have a combined approach of conserving water.

There is a need to implement more nature-based solutions for groundwater recharge across the world. This study will involve doing a desktop review of successful nature-based solutions used across different geographical regions.

Approach/Activities. The approach will include conducting a review of successful nature-based solutions such as natural drainage systems adopted in communities for groundwater recharge.

Results/Lessons Learned. The lessons learned will also include information on the state of the groundwater depletion around the world, methods used to track the groundwater availability and gaps in the system. It will include an analysis of how this contributes to climate resilient communities.