

## **Maryland Department of the Environment Site Evaluation Checklist**

### ☐ **Application Submitted?**

#### **Preliminary Evaluation**

- ☐ Collect and review available topographic, soil, hydrogeologic data and GPR (where applicable) information
- ☐ Examine local records of nearby site evaluations, soil tests, system designs and reported problems for on-site systems and water supply well depths
- ☐ Identify potential problems or features to investigate during the detailed field investigation
- ☐ Conduct a preliminary screening and ranking of potential disposal systems alternatives for the site based on all the available data

#### **Field Investigation**

- ☐ Confirm information contained on the application form, attached site plan and the results of the preliminary evaluation
- ☐ Identify site features that may prohibit or limit the location of an SDA and conduct a landscape analysis to assess surface and subsurface water movement
- ☐ Select potential SDA(s) for examination and location of subsurface excavations and determine acceptability of locations with owner or applicant
- ☐ Examine the soils and the underlying geologic materials in each potential SDA(s) and make detailed soil-landscape descriptions at each excavation
- ☐ Identify any limiting zones in the soils and underlying geologic materials and determine the minimum thickness of unsaturated suitable material available for treatment. Determine the depth of percolation testing based on the required treatment zone.
- ☐ Determine if the water table is a potential limiting zone and if piezometers will be required for water level monitoring. If required select the number, locations and depth of piezometers and determine monitoring frequency
- ☐ Install piezometers if necessary and monitor water levels in the piezometers during the wet season
- ☐ Determine potential system type(s) and select the type(s), number(s), locations and depths of percolation and infiltration tests and any additional hydraulic conductivity tests
- ☐ Conduct or supervise percolation, infiltration and hydraulic conductivity tests and record results of all tests performed

- ☐ Determine accurate locations of all excavations, tests and site features that may limit the location of the SDA and estimate total usable area for the system

**Suitability Recommendations**

- ☐ Confirm that the site and soil properties meet all regulatory requirements, GPR (where applicable) or conditions for variances outlined in appropriate regulations
- ☐ Assess the influence of landscape features, regional hydrology and soil properties on water and wastewater movement
- ☐ Determine whether the proposed SDA(s) is suitable and select an on-site sewage disposal system that will function hydraulically and maximize treatment
- ☐ Provide minimum specifications that can be used in the design and construction of the selected system