

Soil Scientist Services



Soil quality defines how well a soil does what we want it to do. More specifically, soil quality is the capacity of a specific kind of soil to function, within natural or managed ecosystem boundaries, to sustain plant and animal productivity, maintain or enhance water and air quality, and support human health and habitation.

In many states, professional soil scientists conduct the septic system site assessments required for permit approval for both individual homeowners and developers. Soil scientists also get involved in adapting alternative on-site disposal technologies. The need for these services has escalated with the implementation of the Chesapeake Bay Tributary Strategy and the efforts to reduce nutrients and sediment going into the Chesapeake Bay. This not only concerns wastewater disposal but also controlling stormwater and agriculture runoff. Soil scientists can identify suitable soil characteristics to act as a "living filter" to provide renovation of different types of wastewater.

Skelly and Loy has a staff of experienced Certified Professional Soil Scientists (CPSSc) and certified Sewage Enforcement Officers (SEO) as well as associated engineers and technicians to work with municipal, industrial, commercial, and public sector clients. The need for soil science services could arise within the vast majority of land use projects including application of wastewater, utilization of waste, wastewater treatment and design, erosion and sedimentation control and stormwater management, Brownfields redevelopment/land recycling, reclamation, and agriculture resource management.

The following list is a sampling of the soil science services that Skelly and Loy can provide.

- Detailed Soil Survey Mapping and Interpretations
- Land Application of Biosolids
- Soil Cover Consistency Testing and Evaluations
- Sediment Predictions
- Soil Sampling and Screening
- Soil Boring Logs (USDA and USCS Systems)
- Chemical and Physical Assessments
- Nutrient/Manure/Residue Management
- Soil Fertility Analyses
- Turf Grass Management
- Soil Morphological Assessments
- Soil Permeability Testing
- Absorption Area Recommendations
- Mounding Determinations
- Nitrogen Loading Assessments

Skelly and Loy has a wide range of experience working for private clients including single-family residences as well as commercial and industrial facilities. The types of work provided have involved elevated sand mounds, drip irrigation disposal, spray irrigation systems, small flow treatment systems, constructed wetland treatment, soil fills, siphon systems, and a variety of other tasks.

Certain services **require** a certified Soil Scientist's involvement. Skelly and Loy offers resolutions to these types of services as well, including alternate on-lot sewage treatment systems and site modifications to create suitable sewage disposal areas.

For More Information Contact

Luke E. Smeltz
449 Eisenhower Boulevard
Suite 300
Harrisburg, PA 17111
717-232-0593
1-800-892-6532
lsmeltz@skellyloy.com