Onsite Wastewater Treatment and Dispersal Systems

Loudoun County Health Department

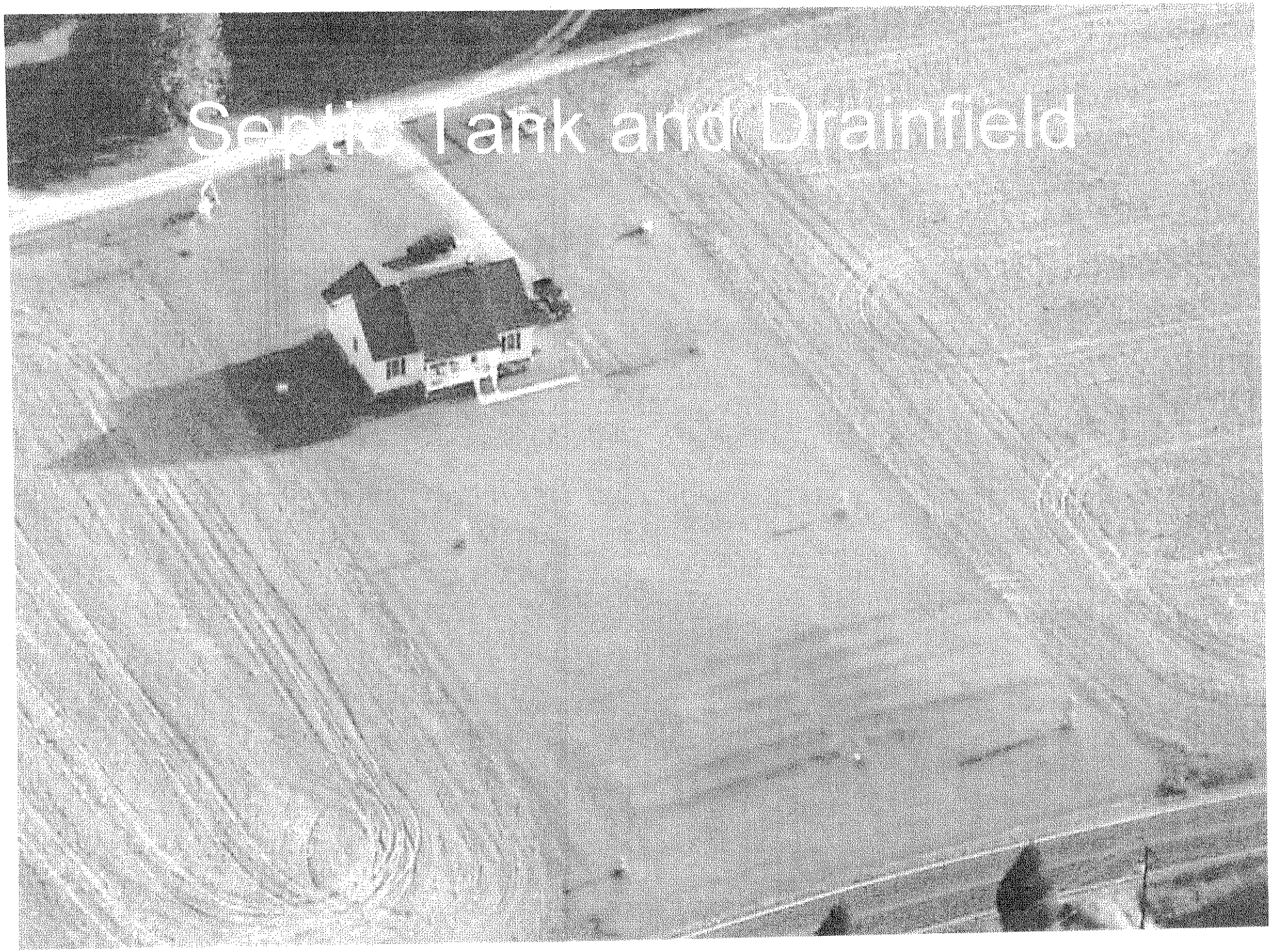
Major Change to Wastewater Regulations In July 2000

- No minimum installation depth
- Allows use of alternative technology
- Allows the use of systems that require less area

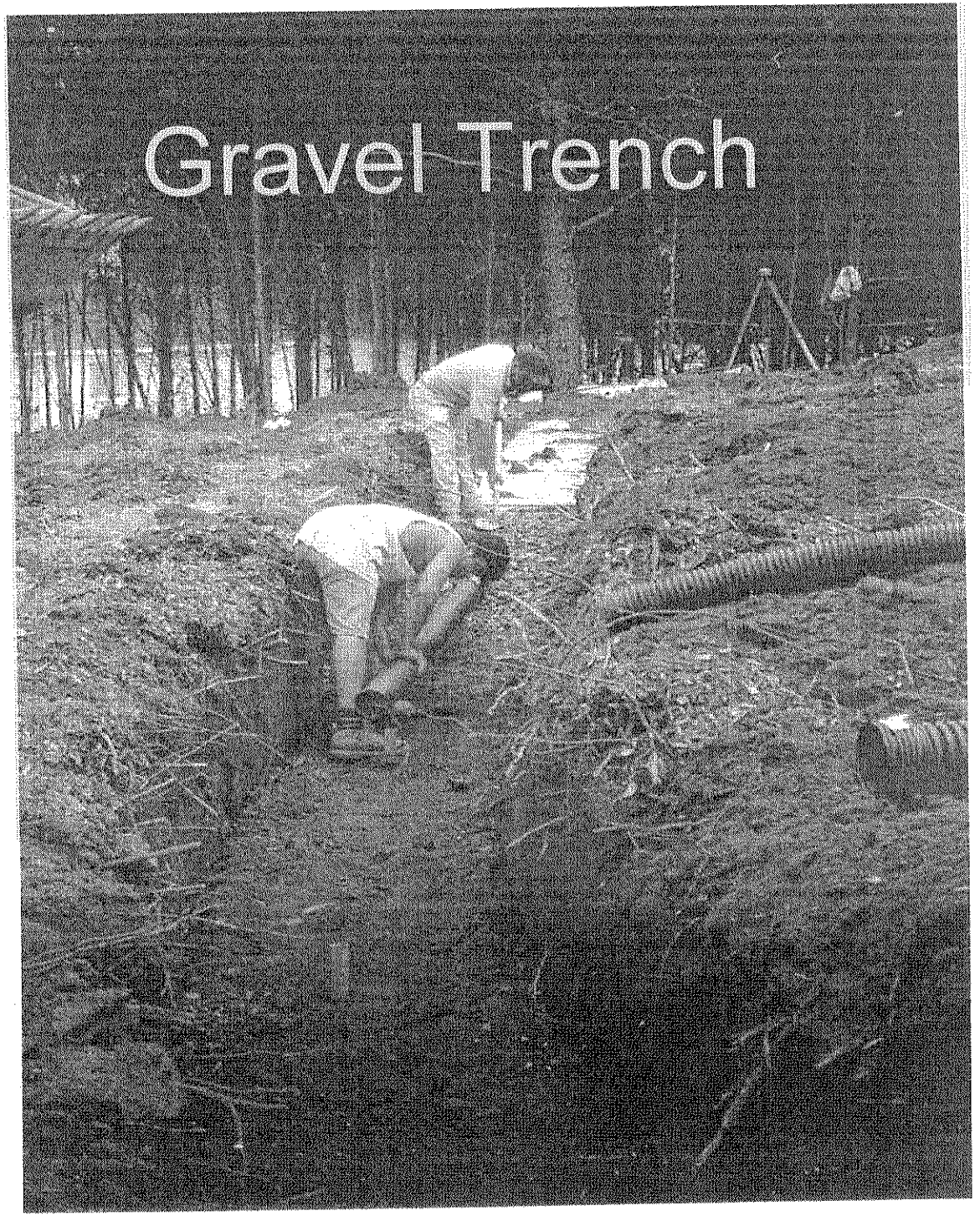
Onsite Systems

Treatment Works	Dispersal Systems
Septic Tanks	Trenches
Aerobic Treatment Units	Low Pressure
Media Filters	Drip
	Spray
	Mounds
	Pads

Septic Tank and Drainfield

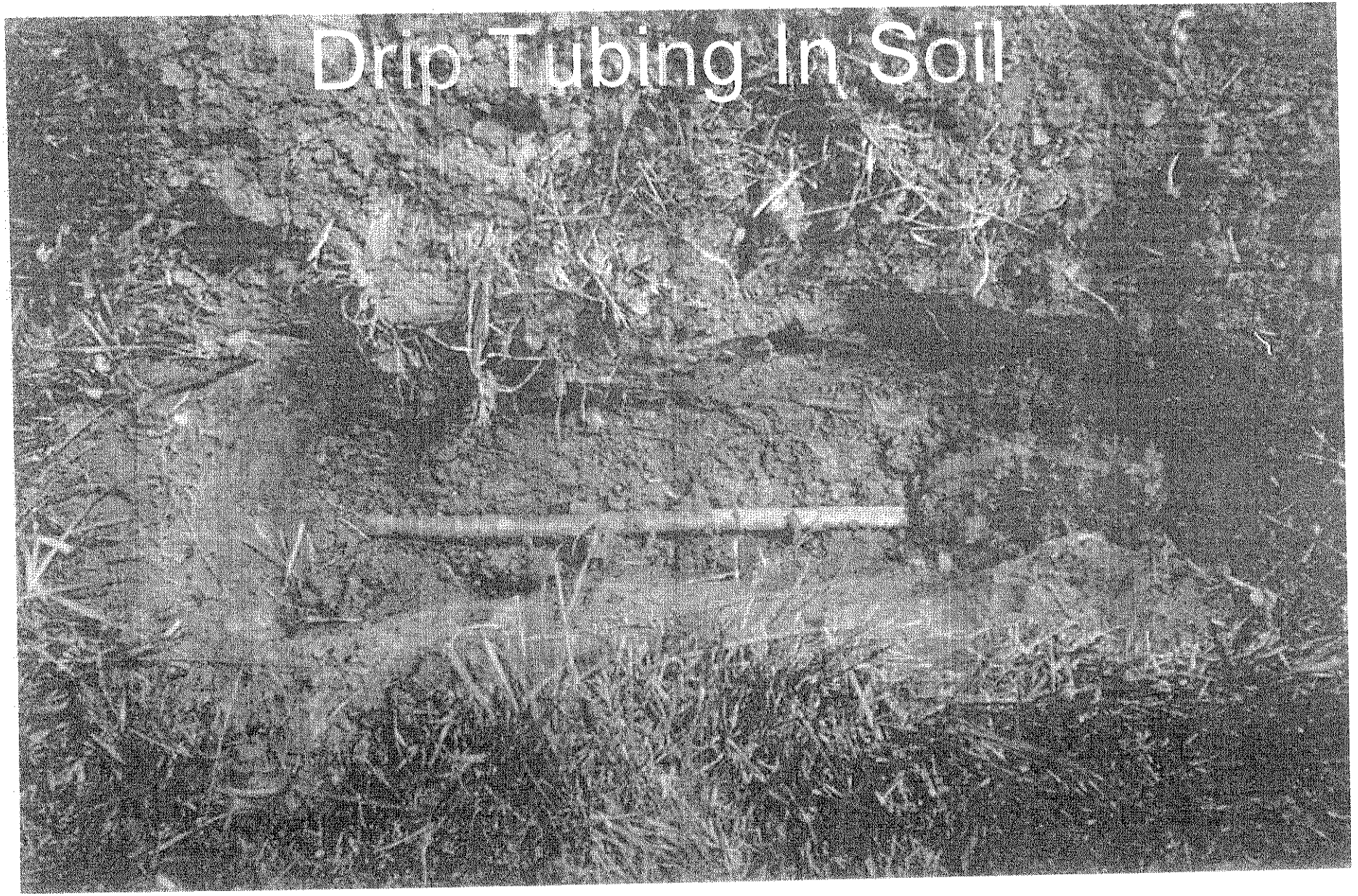


Gravel Trench



Septic Tank Drainfield

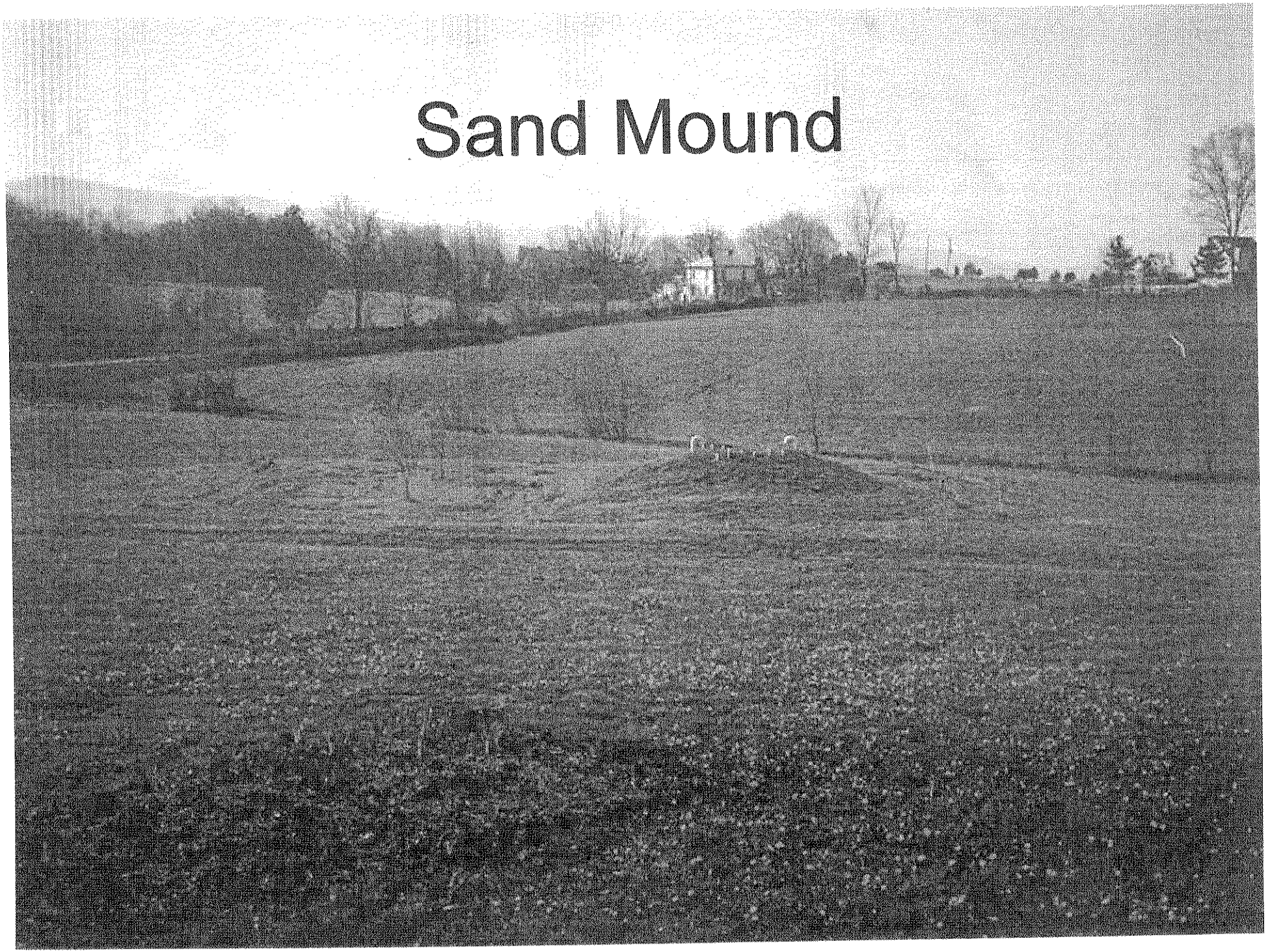
- 18” minimum installation depth
- Permeable soil and good site conditions
- Typical Historic Lot Size 5 to 7 acres


Drip Tubing In Soil

Drip Irrigation

- No minimum installation depth
- Used in marginal soil and site conditions
- Typically 30% smaller than septic tank drainfield
- Typical lot size 3.5 to 5 acres

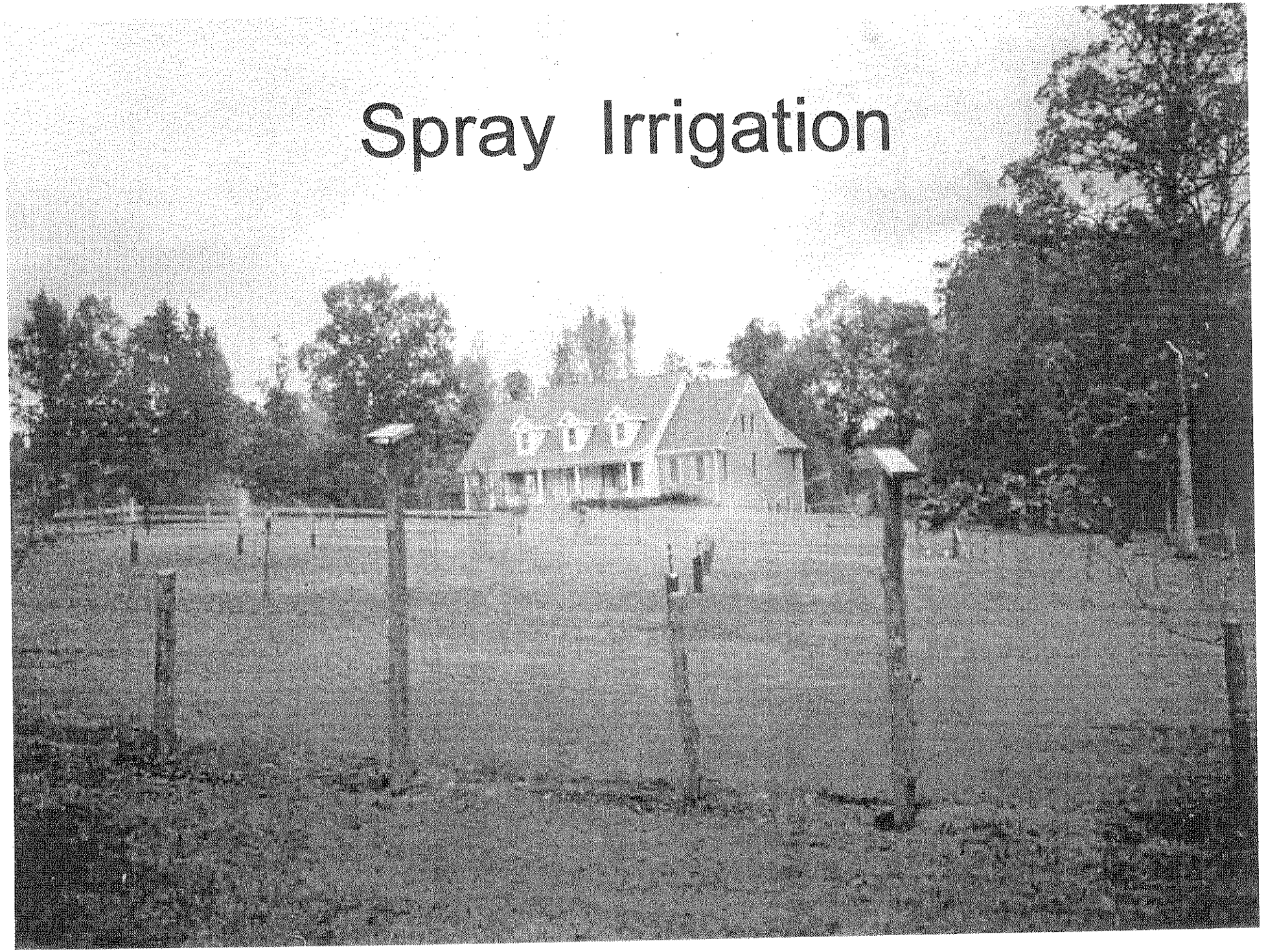
Sand Mound



Mounds and Pads

- Installed at or above original ground surface
- Used in marginal soil and site conditions
- Can take up to 90% less area than a septic tank drainfield
- Typical lot size 3.5 to 5 acres

Spray Irrigation



Spray Irrigation

- Effluent sprayed on ground surface
- Used on sites with extreme limitations
- Requires substantially more area than a septic tank drainfield because of buffer requirements
- Typical lot size 6 to 8 acres

Questions?