

# Groundwater Monitoring Encyclopedia Article

## Groundwater Monitoring

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# Groundwater Monitoring

Monitoring **groundwater** quality and **aquifer** conditions can detect contamination before it becomes a problem. The appropriate type of monitoring and the design of the system depends upon **hydrology**, **pollution** sources, and the population density and **climate** of the region. There are four basic types of groundwater monitoring systems: ambient monitoring, source monitoring, enforcement monitoring, and research monitoring.

Ambient monitoring involves collection of background **water quality** data for specific aquifers as a way to detect and evaluate changes in water quality. Source monitoring is performed in an area surrounding a specific, actual, or potential source of contamination such as a **landfill** or spill site. Enforcement monitoring systems are installed at the direction of regulatory agencies to determine or confirm the origin and concentration gradients of contaminants relative to regulatory compliance. Research monitoring **wells** are installed for detection and assessment of cause and effect relationships between groundwater quality and specific **land use** activities.

## See Also

Aquifer Restoration; Contaminated Soil; Drinking-Water Supply; Hazardous Waste Siting; Leaching; Water Quality Standards