

**Table 1. Definitions and Synonyms of Basic Geological Terminology**

<b>name</b>	<b>field of science or other note</b>	<b>meaning</b>
Tectonics	geology generally	geological structural features as a whole
Tectonics	geology particularly to planet	the structure of the crust of a planet and especially the formation of folds and faults in it
Tectonics	Geology, particularly to Earth's crust	the structure of the Earth's crustal surface & how it changes over time
geo-	from Greek word	earth or of the earth
thermal	basic word definition	heat
geothermal	geo- plus thermal	of, relating to, or using the natural heat produced inside the earth
Climate, climatic	basic geology definition	conditions at surface of earth
Geothermal energy	current common terminology	pockets of hot water or steam near the Earth's surface that can be accessed at reasonable cost. 1 to 2 miles below surface
Near-surface Geo-structure	Geo-inactive zone	Approximately 5 to 50 feet below local surface
Ground Source = Earth Heat Sink or Source	Geo-inactive zone	Near-surface Geo-Structure
GTHP = Ground Source Thermal Pump	Geo-inactive zone	Ground Source Thermal Pump
GTHP system optimization	Geo-inactive zone	Optimum Use = f(location, Climatic Conditions, Near surface Geo-Structure)