



Map Symbols

Generalized Potentiometric Surface Contours

Approximate Groundwater Flow Paths

Wells (n = 84)

Railroad

Road

Town Boundary

NAD27 USGS Quadrangle Corner Tick

NAD83 USGS Quadrangle Boundary

Generalized Potentiometric Surface Contour Interval: 200 feet

Coordinate System: NAD83 Vermont State Plane FIPS 4400

Grid Overlay: NAD83 UTM 18N Meters

This map shows the generalized elevation of the potentiometric surface in the Jeffersonville Quadrangle, Vermont. Dashed contour lines represent an approximation of the elevation of the top of groundwater in bedrock. The term potentiometric explains a type of water level elevation under some degree of pressure that is primarily associated with bedrock aquifers or sand and gravel aquifers confined by overlying geologic deposits. The groundwater flow paths represent generalized flow patterns across the mapped area. The size of the arrows and length of arrow trains do not represent the magnitude of the hydraulic gradient. Data sources for this map include well driller's logs, well driller's static water level measurements, and surface water drainage patterns. Only wells with static water level data are displayed. In areas with sparse well coverage, the generalized potentiometric surface is contoured so the elevation is at or just below the land surface. This generalized map may not provide sufficient detail to characterize groundwater flow patterns on a local scale.

Data Sources:

VCGI, 2010, VT Lidar Hydro-flattened DEM (1.6 meter) East Franklin/West Orleans. Accessed via Vermont Open Geodata Portal.

VCGI, 2016, VT Data - Lidar Hydro-flattened DEM (0.7m), Essex, Caledonia, Orange, and Windsor Counties. Accessed via Vermont Open Geodata Portal.

Vermont Drinking Water and Groundwater Protection Division, 2018, Well Completion Report Database. (<https://anrweb.vt.gov/DEC/WellDrillerReports/Default.aspx>)

Vermont Geological Survey, 2017, Bedrock Outcrops Compilation Dataset. Accessed via Vermont Open Geodata Portal.

United States Geological Survey, 2007-2014, National Hydrography Dataset. (<https://nhd.usgs.gov>)

# Generalized Potentiometric Surface Map of the Jeffersonville Quadrangle, Vermont

Vermont Geological Survey Open-File Report VG2018-5: Plate 4

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