Preliminary Bedrock Surface Elevation Contours in the Bennington Area, Vermont (feet, smoothed)

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Legend

Well and Outcrop Locations
- DeSimone (2017) Outcrop (n = 60)
- Kim (2017b) Outcrop (n = 207)
- Potter (1971) Outcrop (n = 103)
- Bedrock Well (Kim, 2017a) (n = 124)
- Monitor Well (Kim, 2017a) (n = 5)

Generalized Bedrock Surface Elevation GIS Outputs
derived from raster contouring of well and outcrop data

- = Bedrock Surface Contours (50 ft intervals)

Bedrock Surface Elevation (ft)
- High: 2,060
- Low: 443

This map was produced at a scale of 1:12,000 and is designed to show general bedrock surface elevations for the entire Bennington field area. It is not suitable for any detailed evaluation of the Bennington landfill area, for which McLaren-Hart (1997) should be consulted.

This map includes a Bedrock Surface Elevation raster and contours (50 ft). The raster was created by subtracting a depth to Bedrock raster (Z units in feet) from a LiDAR Elevation raster (Z units in feet) using the MINUS tool. The resulting raster was smoothed using the FOCAL STATISTICS tool. FOCAL STATISTICS parameters: Neighborhood = circle, Radius = 50 map units, Statistics type = Mean. Bedrock Surface Elevation contours were constructed from this raster using the CONTOUR tool with a contour interval of 50 feet. Some contours were hand edited in places to more accurately portray bedrock surface data.

Software: ArcGIS10.3.1, Spatial Analyst Tools 10.3.1
Coordinate System = NAD 1983 StatePlane Vermont FIPS 4400 (m)

References:


