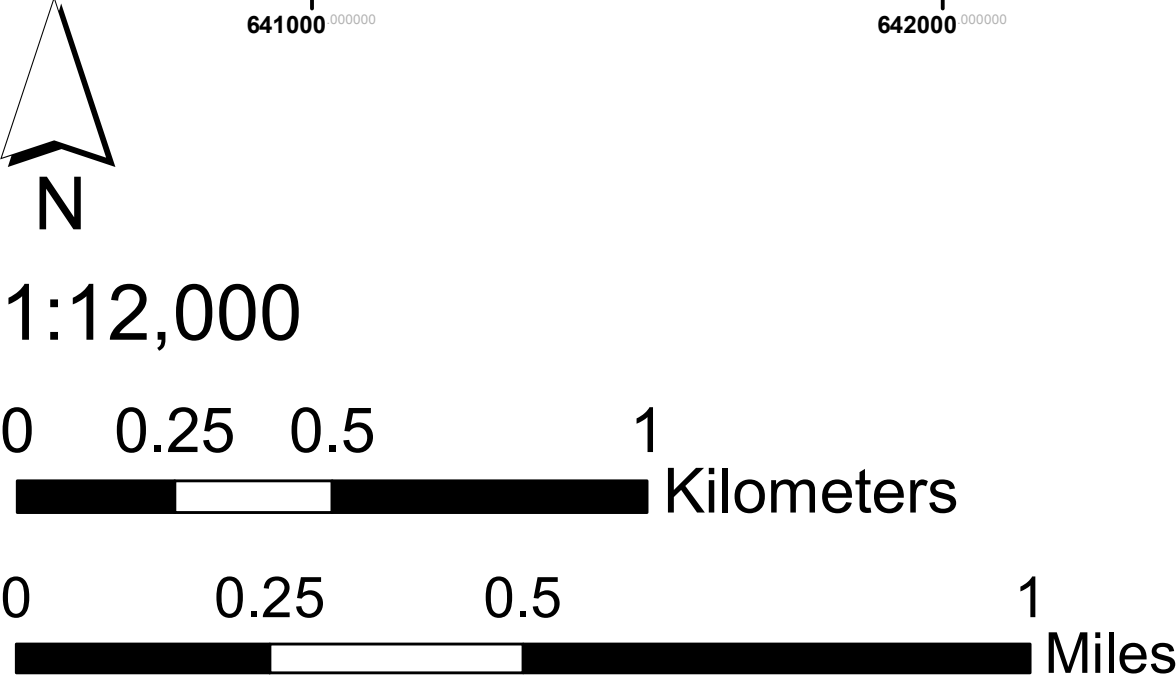
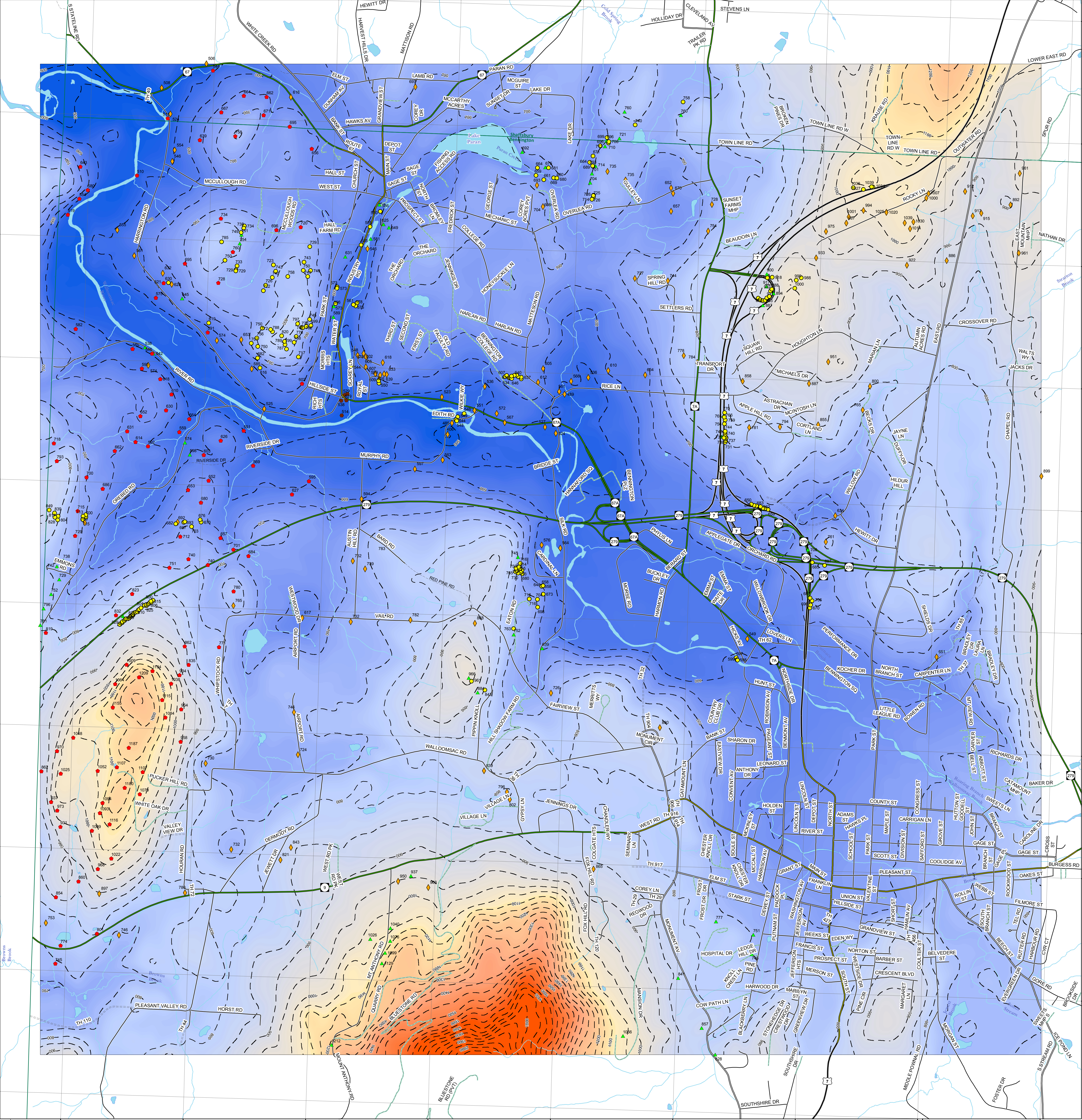




Preliminary Bedrock Surface Elevation Contours in the Bennington Area, Vermont (feet, smoothed)

Vermont Geological Survey Open-File Report 2017-3C 06-08-17 Version

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Legend

Well and Outcrop Locations

(Labels = Bedrock Surface Elevation)

- ▲ 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)

- Study Area
- Town Boundary

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

--- Bedrock Surface Contours (50ft intervals)

Bedrock Surface Elevation (ft)
High : 2089
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:

DeSimone, D. J., 2017, Surficial Geology of the Bennington area, Vermont: Vermont Geological Survey Open-File Report VG2017-1, Plates 1 - 3, scale 1:12,000.

Kim, J. J., 2017a, "DRAFT Bennington correlated well logs, J. Kim, VT Geo. Survey 2-09-17", Unpublished, Data derived from anrweb.vt.gov/DEC/WellDrillerReports/Default.aspx and other sources.

Kim, J. J., 2017b, DRAFT Preliminary Bedrock Geologic Map of the Bennington area, Vermont: Vermont Geological Survey Open-File Report VG2017-4, 1 sheet, scale 1:12,000.

McLaren-Hart Environmental Engineering Corp., 1997, Final Draft, Remedial Investigation Report, Bennington Landfill Site, Bennington Vermont: Submitted to U. S. EPA Region 1, 483 p.

Potter, D.B., 1971, Stratigraphy and structure of the Hoosic Falls area, New York-Vermont, east-central Taconics: New York State Museum and Science Service Map and Chart Series, no. 19, 71 p., scale 1:24,000.

Vermont Center for Geographic Information, 2012, VT Lidar Hydro-flattened DEM (2 meter) - 2012 - Bennington. Accessed 01/2017 from <http://geodata.vermont.gov/>.

