

# $^{40}\text{Ar}/^{39}\text{Ar}$ Geochronology Results for the Salt Lake City North Quadrangle, Utah

*by*

*Adam P. McKean and  
Nevada Isotope Geochronology Laboratory*

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## INTRODUCTION

This open-file report makes available raw analytical data from laboratory procedures completed to determine the age of rock samples collected during geologic mapping funded or supported by the U.S. Geological Survey (USGS) National Cooperative Geologic Mapping Program and the Utah Geological Survey (UGS). The reference listed in table 1 reports the age of the sample and generally provides additional information such as location, geologic setting, and significance or interpretation of the sample in the context of the area where it was collected. The analyses were performed by the Nevada Isotope Geochronology Laboratory (NIGL) under contract to UGS. These data are highly technical in nature and proper interpretation requires considerable training in the applicable geochronologic techniques.

The analytical data can be accessed electronically as an attachment to the PDF file of this report and are available at [http://ugspub.nr.utah.gov/publications/open\\_file\\_reports/ofr-658/ofr-658.xls](http://ugspub.nr.utah.gov/publications/open_file_reports/ofr-658/ofr-658.xls).

**Table 1.** Salt Lake City North 7.5' quadrangle sample number, rock type, and location.

Sample	Map Unit	Unit Name	Rock Type	Rock Name	Reference	Latitude (N)	Longitude (W)
SLCN2014-283-1	Tv	Volcanic breccia	volcanic breccia - clast	dacite	McKean, in preparation	40.79602	111.87639

**Notes:**

Location data based on NAD83.

Rock name using total alkali-silica diagram of LeBas and others (1986), for values normalized to 100% on a volatile free basis (data not shown here).

## DISCLAIMER

This open-file release is intended as a data repository for information gathered in support of various UGS projects. The data are presented as received from the NIGL and do not necessarily conform to UGS technical, editorial, or policy standards; this should be considered by an individual or group planning to take action based on the contents of this report. The Utah Department of Natural Resources, Utah Geological Survey, makes no warranty, expressed or implied, regarding the suitability of this product for a particular use. The Utah Department of Natural Resources, Utah Geological Survey, shall not be liable under any circumstances for any direct, indirect, special, incidental, or consequential damages with respect to claims by users of this product.

The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

## ACKNOWLEDGMENTS

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## REFERENCES

- LeBas, M.J., Le Maitre, R.W., Steckeisen, A.L., and Zanettin, B., 1986, A chemical classification of volcanic rocks based on the total alkali-silica diagram: *Journal of Petrology*, v. 27, part 3, p. 745-750.
- McKean, A.P., in preparation, Interim geologic map of the Salt Lake City North quadrangle, Salt Lake and Davis Counties, Utah: Utah Geological Survey Open-File Report, scale 1:24,000.