ABSTRACT

TITLE:	New Insight into Volatile Sources and Magmatic Processes of Ultrapotassic Rocks in the Navajo Volcanic Field from Chlorine Isotopes and Chlorine-Fluorine Trends
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ABSTRACT: The dominant bulk-rock geochemical signatures and trends of rocks in the Navajo volcanic field (NVF) are well established, but the volatile histories of these rocks are poorly defined and understood. New insight into the types and trends of volatiles rocks of the NVF reveal that magmatic gases are F rich and variable but generally Cl-depleted. NVF volatiles were derived from a source with distinctly positive