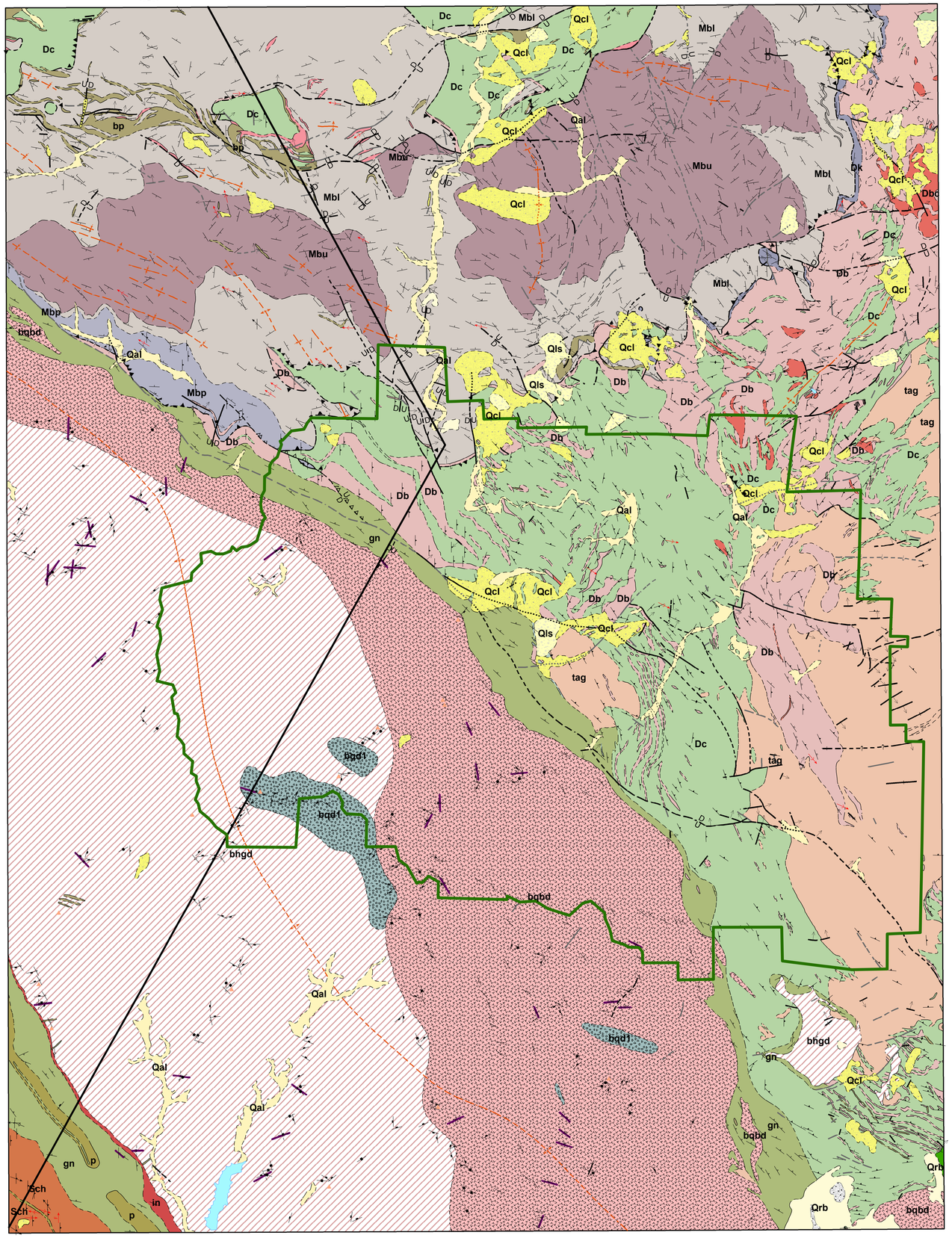
Geologic Map of Whiskeytown NRA, CA

French Gulch Quadrangle



Whiskeytown NRA boundary

FREG Geologic Cross Section Lines
- FREG Geologic Cross Section Lines

FREG Geologic Attitude Observation Points
- strike and dip of beds
- strike of vertical beds
- strike and dip of joints
- strike of vertical joints
- bearing and plunge of lineation
- strike and dip of cleavage
- bearing and plunge of minor anticline
- bearing and plunge of minor syncline
- strike and dip of flow layering
- strike of vertical flow layering
- dip of fault plane
- upthrown side of fault
- downthrown side of fault
- vertical fault plane
- dip of contact
- anticline
- syncline
- plunge of fold axis
- strike and dip of inclined dike
- strike of vertical dike
- strike and dip of sheeting
- strike of vertical sheeting
- strike and dip of schistosity
- strike of vertical shistosity

FREG Geologic Sample Localities
- mineralogical/chemical sample

FREG Mine Area Feature Boundaries
- approximate
- quadrangle boundary

FREG Mine Area Features
- tailings

FREG Folds
- anticline, known or certain
- anticline, approximate
- syncline, known or certain
- syncline, approximate
- syncline, concealed

FREG Faults
- thrust fault, known or certain
- thrust fault, approximate
- thrust fault, concealed
- thrust fault, queried
- reverse fault, known or certain
- reverse fault, approximate
- reverse fault, concealed
- normal fault, known or certain
- normal fault, approximate
- normal fault, concealed
- normal fault, queried
- unknown offset/displacement, known or certain
- unknown offset/displacement, approximate
- unknown offset/displacement, concealed
- unknown offset/displacement, queried
- high-angle fault, known or certain
- high-angle fault, approximate
- vertical fault, known or certain
- vertical fault, approximate
- vertical fault, queried

FREG Linear Intrusives (Dikes)
- ad - Felsic dike rocks

FREG Geologic Contacts
- known or certain
- approximate
- concealed
- queried
- inferred
- gradational
- quadrangle boundary
- shoreline

FREG Geologic Units
- Qcl - soil, talus and slope wash
- Qal - sand and gravel in stream beds
- Qls - landslide
- Qrb - Red Bluff Formation
- Kc - Chico Formation
- bp - Birdseye porphyry
- hb - hornblendite
- qp - quartz porphyry
- mg - metagabbro
- bhgd - biotite hornblende grnodiotite and quartz diorite of Shasta Bally batholith
- bqbd - coarse biotite granodiorite and quartz diorite of Shasta Bally bahtolith
- bqd1 - fine biotite granodiorite and quartz diorite of Shasta Bally batholith
- gn - gneiss and amphibolite derived from Copley, Balaklala, and Bragdon formations
- in - injected rocks and breccia
- p - peridotite
- tag - trondhjemite
- br (ag2)- intrusive breccia
- Mbu - upper unit of Bragdon Formation
- Mbl - lower unit of Bragdon Formation
- Mbc - conglomerate bed in lower unit of Bragdon Formation
- Mbp - phyllite derived from Bragdon formation by contact metamorphism of Shasta Bally batholith
- Dk - Kennett Formation
- Dbc - coarse phenocryst rhyolite of Balaklala Rhyolite
- Db - nonporphyritic rhyollite of Balaklala Rhyolite
- Dbt - tuff and tuffaceous sedimentary rock of nonporphyritic rhyollite of Balaklala Rhyolite
- Dc - Copley Greenstone
- Dct - tuff, shaly tuff, and shale of Copley Greenstone
- Sch - Abrams mica schist and Salmon hornblende schist, undifferentiated
- water

N

0 2.5 5 10 Kilometers

0 1.25 2.5 5 Miles

This map graphically presents digital geologic data prepared as part of the NPS Geologic Resources Division's Geologic Resource Evaluation Program. The source map used in creation of the digital geologic data product was:

Albers, J.P., Kinkel, A.R., Jr., Drake A.A., Irwin, W.P., 1964, Geology of the French Gulch Quadrangle Shasta and Trinity Counties, California: U.S. Geological Survey, Geological Survey Bulletin, 1141-J scale 1:62,500.

Digital geologic data and cross sections for Whiskeytown National Recreation Area, and all other digital geologic data prepared as part of the Geologic Resource Evaluation Program, are available online at the NPS Data Store: http://science.nature.nps.gov/nrdata/