



## Site Description

### **Humboldt Lake**

(updated 2010)

Geologic setting: Humboldt Lake and Toulon Lake are perennial water features within the Humboldt Sink. The West Humboldt Range, an east-tilting horst block, separates the Humboldt Sink from Carson Sink southeast. The Mopung Hills, also a horst block, extend southward of this range. In both ranges, Tertiary volcanics cap Jurassic limestone and Cretaceous granodiorite, though the Mopung Hills limestone is also overlain by greenstone and gabbro (Willden and Speed, 1974).

Much of the region's mining (lead-silver-antimony) occurs within a rhyolite-hornfels alteration zone east of the Mopung Hills (Bonham et al., 1985). Additional description of this resource is included under NBMG "Lahontan Valley > Carson Sink > Mopung Hills".

Geothermal features:

Leasing information: N/A

### Bibliography:

Bonham, H.F., Jr., Garside, L.J., Jones, R.B., Papke, K.G., Quade, J., and Tingley, J.V., 1985, A mineral inventory of the Paradise-Denio and Sonoma-Gerlach Resource Areas, Winnemucca District, Nevada, Nevada Bureau of Mines and Geology Open File Report 85-3, 473 p.

Willden, R., and Speed, R.C., 1974, Geology and mineral deposits of Churchill County, Nevada, Nevada Bureau of Mines and Geology Bulletin 83.