

**STATE OF NEW MEXICO
BEFORE THE WATER QUALITY CONTROL COMMISSION**

In the Matter of:)
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)
)
PROPOSED AMENDMENT)
TO 20.6.2 NMAC (Copper Rule))
)
_____)

No. WQCC 12-01(R)

EXHIBIT BLANDFORD - 9

**Exhibit Blandford-9. Generalized Table of Sources and Relative Mobility in
Ground Water for Selected Constituents Identified in
Copper Rule Section 20.6.7.28(G) NMAC**

Element/Constituent	Generalized Sources at Porphyry Copper Deposits		General Mobility in Ground Water	
	Copper Ore Minerals and Pyrite	Non-Copper Ore/Gangue Minerals	Low pH Water (pH < 4)	Near Neutral pH
Aluminum (Al)		✓	High	Low
Arsenic (As)	✓		Moderate	Moderate
Cadmium (Cd)	✓		High	Low
Cobalt (Co)	✓		High	Low
Chromium (Cr)	✓	✓	High	Low
Copper (Cu)	✓	✓	High	Low
Fluoride (F)		✓	Moderate	Moderate
Iron (Fe)	✓	✓	High	Low
Lead (Pb)	✓	✓	Moderate	Very low
Magnesium (Mg)		✓	High	Low
Manganese (Mn)		✓	High	Moderate
Nickel (Ni)	✓		High	Low
Selenium (Se)	✓		High	Low
Sulfate (SO ₄)	✓		High	High
Uranium (U)		✓	Moderate	Moderate/high
Zinc (Zn)	✓		High	Low

Note: Qualitative mobility estimates are generalized and will vary based on site-specific conditions.