

ENCON Mining Laboratory

Ore and Acid Rock Drainage Tests



TEST/ANALYSIS	SYMBOL	METHOD	PARAMETERS	INSTRUMENT
Sample Particle Size, Crushing, Grinding			-	Jaw Crusher Ring
Particle Size Analysis		TS EN933-1:2012	-	Retsch Sieve Set
Minerological Analysis			For minerals and semi quantitative distribution, SiO ₂ , Al ₂ O ₃ , Cr ₂ O ₃ , Fe ₂ O ₃ , Na ₂ O, K ₂ O, CaO, FeO, MgO, MnO, TiO ₂ , P ₂ O ₅ , LOI	XRD, XRF
Whole Rock Elementary Analysis	WREA	EPA200.8	Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Th, Ti, Tl, U, V, W, Zn	ICP-MS
Leach Test	LT	ASTM D3987	Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Th, Ti, Tl, U, V, W, Zn and anions	ICP-MS/IC
Surface Washing/Crushed/Paste pH Measurement	pH	Sobek, 1978	pH Surface washing pH Crushed	Wet Chemistry
Sulfur Forms - Acid Generation Potential (AP)	AP	LECO Induction EPA600	Total Sulfur, S, Sulfate leached in acid, SO ₄ , Sulfur, S ⁻² Acid Generation Potential	LECO
Acid Base Balance Test - Bulk Acid Neutralization Potential	ABA	Sobek, 1989, 1996	Bulk Asit Nötralizasyon	Wet Chemistry
Total Inorganic Carbon - Carbonate Neutralization Potential	TIC	LECO Induction	TIC ve TOC as % Coras % CO ₂ Carbonate Acid Neutralization	LECO
Net Acid Generation Test (NAG)	NAG	Single addition NAG Sequential addition NAG	Net Acid Generation (kg H ₂ SO ₄ /tone)	Wet Chemistry
Humidity Cell Test - Kinetic Test	KT	LECO Induction	Leach Volume	Wet Chemistry
			pH	IC
			Alkalinity Acidity Conductivity Sulfate Chloride or Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Th, Ti, Tl, U, V, W, Zn	ICP-MS