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Tested Materials	Parameter	Method	Protection Measure	Storage Container Type	Sample Quantity (minimum)	Maximum Storage Time	Referenced Standard	Special Note	
GOLD AND SILVER ANALYSIS									
Mining Waste/ Waste/ Mineral Ore/ Rock	Gold(Au) KS1	ICP-MS EPA 6020 B	-	Plastic or Cloth Bag	2 kg	-	-	-	
	Silver (Ag) MD2	ICP-OES EPA 6020 B							
	TRACE ELEMENT ANALYSIS								
	Antimony (Sb)	ICP-MS EPA 3051 A EPA 6020 B	-	Plastic or Cloth Bag	200 g	--	-	-	
	Arsenic (As)								
	Beryllium (Be)								
	Mercury (Hg)								
	Cadmium (Cd)								
	Lead (Pb)								
	Selenium (Se)								
	Thallium (Tl))								
	Uranium (U)*								
	Tungsten (W)*								
Thorium (Th)*									
Tin (Sn)*									
Molybdenum Mo)*									
Lanthanium (La)*									



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Mining Waste/ Waste/ Mineral Ore/ Rock	Gallium (Ga)*	ICP-MS EPA 3051 A EPA 6020 B	-	Plastic or Cloth Bag	200 g	-	-	-
	Boron (B)*							
	Zirconium (Zr)*							
	Cerium (Ce)*							
	Hafnium (Hf)*							
	Indium (In)*							
	Lutetium (Lu)*							
	Niobium (Nb)*							
	Rubidium (Rb)*							
	Scandium (Sc)*							
	Tantalum (Ta)*							
	Terbium (Tb)*							
	Tellurium (Te)*							
	Ytterbium (Yb)*							
	Aluminum (Al)	ICP-OES EPA 3051 A EPA 6010 D	-	Plastic or Cloth Bag	200 g	-	-	-
	Barium (Ba)							
	Zinc (Zn)							
	Iron (Fe)							
	Manganese (Mn)							
	Strontium (Sr)							
	Vanadium (V)							
	Silicium (Si)							
	Phosphorus (P)							
Lithium (Li)*								
Bismuth (Bi)*								
Titanium (Ti)*								



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Mining Waste/ Waste/ Mineral Ore/ Rock	Copper (Cu)	ICP-OES EPA 3051 A EPA 6010 D	-	Plastic or Cloth Bag	200 g	-	-	-	
	Cobalt (Co)								
	Chromium (Cr)								
	Nickel (Ni)								
	Calcium (Ca)								
	Magnesium (Mg)								
	Potassium (K)								
	Sodium (Na)								
	FULL ROCK ANALYSIS (Lithium Borate Fusion)								
	SiO ₂	ICP-OES TS ISO 14869-2 EPA 3051 A EPA 6010 D	-	Plastic or Cloth Bag	250 g	-	-	-	
	Al ₂ O ₃								
	Fe ₂ O ₃								
	Na ₂ O								
	K ₂ O								
	CaO								
	FeO								
	MgO								
	MnO								
	TiO ₂								
P ₂ O ₅									
LOI									



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STATIC AKD TESTS								
Mining Waste/ Waste/ Mineral Ore/ Rock	S ²	ASTM E 1915-13	-	Plastic or Cloth Bag	250 g			
	Total Inorganic Carbon	SOBEK(EPA 600, ASTM E 1915-13)	-	Plastic or Cloth Bag	2000 g	-	-	-
	Modified Acid-Base Accounting, Total S, pH (NP, AP, NP/AP, NNP)							
	Net Acid Production Test (NAPT, pH, Acidity)	AMIRA. 2002. ARD Test Handbook	-	Plastic or Cloth Bag				
	With Multiple Acid Fragmentation Metal Measurement (ICP-MS)	EPA 200.7, EPA 6020 B, TS EN ISO 17294-1/2	-	Plastic or Cloth Bag				
	Full Rock Analysis	TS ISO 14869-2 (Lithium Borate Fusion) EPA 3051 A EPA 6010 D	-	Plastic or Cloth Bag	2000 g			
	(3:1) Shake Extraction with General Parameters test, ICP-MS, Cl, F	BS EN 12457-1:2002	-	Plastic or Cloth Bag	2000 g			
	Full Analysis of Control (blind) Shake Extraction (Containing Cl and F)	BS EN 12457-1:2002	-	Plastic or Cloth Bag	2000 g			



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Mining Waste/ Waste/ Mineral Ore/ Rock	Control (blind) Shake Extraction analysis (only pH and EC)	BS EN 12457-1 : 2002	-	Plastic or Cloth Bag	2000 g	-	-	-	
	Moisture Cell Preparation (one time only)	ASTM D 5744-96	-	Plastic or Cloth Bag	2000 g				
	Size Fraction Analysis (one time only)	ASTM C136-06	-	Plastic or Cloth Bag					
	MONOLITHIC DYNAMIC AKD TESTS (TS EN 15863)								
		Moisture Cell Preparation (one time only)	TS EN 15863	-	Plastic or Cloth Bag	3000 g	-	-	-
		Size Fraction Analysis (one time only)	-	-	Plastic or Cloth Bag				
		Humidity Cell Operation (once only)	TS EN 15863	-	Plastic or Cloth Bag				





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Mining Waste / Mine Tailing (Eluate)	Au,Ce, Cs, Dy, Er, Eu, Ga, Gd, Ge, Hf, Ho, In, Ir, La, Lu, Nd, Pd, Pr, Pt, Rb, Re, Rh, Ru, Sc, Sm, Tb, Tm, W, Y, Yb, Nb, Ta, Os	ASTM D 3987 TS EN 12457-1 TS EN 15863 ASTM D5744-18 ASTM D4793 EPA 3015 A TS EN ISO 17294-1,2	-	Plastic or Cloth Bag	8-10 kg	-	-	-
	Ca, K, Mg, Na	EPA 1313 EPA 1314 EPA 1315 EPA 1316 TS EN 14405 EPA 6010D	-	Plastic or Cloth Bag	5 kg	-	-	-
	As, Cd, Cr, Cu, Mo, Ni, Pb, Sb, Se, Zn, Al, P, Ag, B, Ba, Be, Co, Fe, Hg, Li, Mn, Sn, Sr, Tl, Ti, Te, Th, U, Zr, Au,Ce, Cs, Dy, Er, Eu, Ga, Gd, Ge, Hf, Ho, In,Ir,La, Lu, Nd, Pd, Pr, Pt, Rb, Re, Rh, Ru, Sc, Sm, Tb, Tm, W, Y, Yb, Nb, Ta, Os	EPA 1313 EPA 1314 EPA 1315 EPA 1316 TS EN 14405 TS EN ISO 17294-1,2 EPA 6020 B	-	Plastic or Cloth Bag	5 kg	-	-	-



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Mineral Ore/rock	Sb, As, Ba, Zn, Ag, Cd, Sn, Co, Cr, Mo, Ni, Se, Ti, P, Zr, Sr, Ca, Mg, Na, K, Fe, Al, Mn	In house method ENC.LABTL.CBLCK.236 EPA 6010 D	-	Plastic or Cloth Bag	500 g	-	Rapid high-performance sample digestion for ICP determination by ColdBlock™ digestion: part 2: gold determination in geological samples with memory effect elimination	
	Gold (Au)	In house method - ENC.LABTL.CBLCK.236 TS EN ISO 17294-1,2	-	Plastic or Cloth Bag	500 g	-	-	-
	Net Acid Production Test	In house method - "ENC.LABTL.NAG.189	-	Plastic or Cloth Bag	500 g	-	-	-
Mining Waste / Mine Tailing (Original Waste)	B P Sn Li Mo Ti As Sb Be ,Hg , Ag , Se, Cd , Pb, TI	EPA 6010D EPA 3051 A	-	Plastic or Cloth Bag	500 g	-	-	-
Mining Waste / Mine Tailing (Original Waste)	Bi, Zr	In house method ENC.LABTL.ICP_MET.118	-	Plastic or Cloth Bag	500 g	-	-	-



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Mining Waste / Mine Tailing (Original Waste)	Th, U, Ti, Te, Zr	In house method - ENC.LABTL.ICP_MET.248	-	Plastic or Cloth Bag	500 g	-	-	-
Mining Waste / Mine Tailing (Eluate)	P, Ti, Bi, Au, Ce, Cs, Dy Er, Eu, Ga, Gd, Ge, Hf, Ho, In, Ir, La, Lu, Nd, Pd Pr, Pt, Rb, Re, Rh, Ru, Sc, Sm, Tb, Tm, W, Y, Yb	TS EN 15863 ASTM D5744-18 ASTM D 3987 TS EN 12457-1 ASTM D4793 TS EN ISO 17294-1/2	-	Plastic or Cloth Bag	10 kg	-	-	-
Mining Waste / Mine Tailing (Eluate)	Nb, Ta, Os	TS EN 15863 ASTM D5744-18 ASTM D 3987 TS EN 12457-1 ASTM D4793 In house method (Modified from TS EN ISO 17294-1/2 method.)	-	Plastic or Cloth Bag	10 kg	-	-	-
Mining Waste / Mine Tailing (Eluate)	Ti, Zr, Bi, Ag, Hg, P	ASTM D 3987 TS EN 12457-1 TS EN 15863 ASTM D5744-18 ASTM D4793 EPA 6010D	-	Plastic or Cloth Bag	10 kg	-	-	-

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Maden Atıkları/Pasa (Eluat)	Determination of Total Dissolved Matter	ASTM D4793	-	Plastic or Cloth Bag	100 g	-	-	-
Maden Atıkları/Pasa (Eluat)	Determination of Total Dissolved Matter	TS EN 15863 SM 2540 C	-	Plastic or Cloth Bag	-	-	-	-

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