



## BALKHASH PLANT WEAK ACID: POTENTIAL RHENIUM SOURCE

## Chemical composition of the weak acid of Balkhash Smelter

Table	1

KAZAKHBIY

Grade, g/l									
$H_2SO_4$	Re Mo		Se	Se Pb		As			
20-70	0.0083	0.0020	0.042	0.0047	0.361	1.348			
Grade, g/l									
Cu	Zn	Cd	Bi	Fe	Cl				
0.0045	0.0490	0.0035	0.0013	0.0057	0.59				

Challenging conditions at Balkhash Smelter:

Low grade and large volume of solution

High level of impurities, especially selenium

Potential production is more than 3000 kg per annum!









PRODUCING HIGH-QUALITY PRODUCT										
chemical composition of final APR, ppm										
	Al	Fe	Κ	Cu	Mo	Na	S	Si		
Standard TU48-7-1-90	5	5	50	0.5	5	10	20	10		
APR sample	0.5	1	3	0.5	0.5	0.5	4	2		

