

Pulp Prod	Qad	2000 lb/d
Digester Yield	Y	50 %
AA charge	CHaa	17 %
	WLstr	6.5 lb AA /ft3
Sulfidity_TTA	Swl	25 %
TTA	TTAwl	7.6 lb/ft3
Excess lime	Elm	12.5 %
Lime Avail	AVlm	88 %
WLC solids	P	40 %
WL Sp Gravity	WL_sg	1.16
xxx	factor	0.9 ??
Liq loss	LL	1 %
RWL Sp grav	SGrwl	1.2

907.2 kg/d

Total mass balance			
In	7714.599	Out	7714.93
Solids Balance			
In	1824.809	Out	1825.141
Water balance			
In	6032.627	Out	6032.627

1.01

WL to digester			Smelt from RB			Liq in Unwashed mud			Green Liq quantities			Raw WL quantities			Liq to Digester	
Liq Vol	Vd_wl	94.15385 ft3/day	Na2O in smelt	Nsm	732.6508 lb/d	Avail Lime Req	LMa	444.3831 lb/d	Na2S as Na2O in GL	AgI_0	213.1834 lb/d	Tot WL	RWL	8947.051 lb/d		
Na2S as Na2O in WL	Ad_0	178.8923 lb/d	Na2S as Na2O in smelt	Asm_0	180.6812 lb/d	Tot lime Req	LMt	504.9808 lb/d	Na2S as such in GL	AgI_1	268.6111 lb/d	Lime mud solids	LM	825.4864 lb/d		
Na2S as such in WL	Ad_1	225.4043 lb/d	Na2S as such in smelt	Asm_1	227.6584 lb/d	Tot Grits	GRT	60.5977 lb/d	NaOH as Na2O in GL	BgI_0	78.68944 lb/d	Na2S as Na2O in RWL	Arwl_0	213.1834 lb/d	180.6812	178.8923 lb/d
NaOH as Na2O in WL	Bd_0	433.1077 lb/d	NaOH as na2O in smelt	Bsm_0	0 lb/d	Grits in system	GRrm	54.53793 lb/d	NaOH as such in GL	BgI_1	101.5094 lb/d	Na2S as such in RWL	Arwl_1	268.6111 lb/d		
NaOH as such in WL	Bd_1	558.7089 lb/d	Na2SO4 as Na2O in smelt	Dsm_0	9.925904 lb/d	Grits removed in classifier	GRI	6.05977 lb/d	Na2CO3 as Na2O in GL	CgI_0	560.8585 lb/d	NaOH as Na2O in RWL	Brwl_0	516.1282 lb/d	437.4388	433.1077 lb/d
Na2CO3 as Na2O in WL	Cd_0	103.5692 lb/d	Na2SO4 as such in smelt	Dsm_1	22.76584 lb/d	Exc Ca(OH)2 formed in slaker	HY	65.29911 lb/d	Na2CO3 as such in GL	CgI_1	959.0681 lb/d	NaOH as such in RWL	Brwl_1	665.8054 lb/d		
Na2CO3 as such in WL	Cd_1	177.1034 lb/d	Na2CO3 as such in smelt	Csm_1	926.5666 lb/d	Tot CaCO3 formed	F	705.6494 lb/d	Na2SO4 as such in GL	DgI_0	11.71144 lb/d	Na2CO3 as Na2O in RWL	Crwl_0	123.422 lb/d	104.6049	103.5692 lb/d
Na2SO4 as such in WL	Dd_1	22.54043 lb/d	Na2CO3 as Na2O in smelt	Csm_0	542.0415 lb/d	Water to slake CaO	Wr	142.8374 lb/d	Na2SO4 as Na2O in GL	DgI_1	26.8192 lb/d	Na2CO3 as such in RWL	Crwl_1	211.0516 lb/d		
Na2SO4 as Na2O in WL	Dd_0	9.827628 lb/d	Tot Smelt flow as such	SM	1176.991 lb/d	Tot Lime mud solids Unwashed lime mudn slurry	LM	825.4864 lb/d	GL TTA	GLtta	852.7313 lb/d	Na2SO4 as such in RWL	Drwl_0	11.71144 lb/d	9.925904	9.827628 lb/d
Causticity	CAwl	80.70175 %	Red Eff	Rsm	94.79248 %	WL in lime mud slurry	ULMsl	2063.716 lb/d	GL Vol	Vgl	112.2015 ft3/d	Na2SO4 as Na2O in RWL	Drwl_1	26.8192 lb/d		
WL to digester	Wd_wl	6815.232 lb/d				WLulm		1238.23 lb/d	GL Diss solids	GLds	1356.008 lb/d	Water in RWL	Hrwl	6949.285 lb/d		
WL diss solids	Wld_ds	983.757 lb/d				Na2S as Na2O in Weak wash	Aww_0	32.50216 lb/d	Water in GL	Hgl	7092.122 lb/d	Vol of RWL	Vrwl	119.4852 ft3/d		
Water in WL	Hd_0	5831.475 lb/d				NaOH as such in Weak wash	Aww_1	40.95272 lb/d	Tot weight of GL	Wgl	8448.13 lb/d	RWL sulfidity	Srwl	25 %		
		94.79248				NaOH as Na2O in Weak wash	Bww_0	78.68944 lb/d	Water req in GL mud washing	Hw_0	6032.627 lb/d	RWL AA	AArwl	6.103782 lb/ft3		
						Na2S as such in Weak wash	Bww_1	99.14869 lb/d	GL sulfidity	Sgl	25.00006 %	RWL TTA	TTArwl	7.13673 lb/ft4		
						Na2CO3 as Na2O in Weak wash	Cww_0	18.81704 lb/d	GL AA	AAgl	2.601327 lb/ft3		CErwl	80.70175 %		
						Na2CO3 as such in Weak wash	Cww_1	32.17714 lb/d	GL specific gravity	SG	1.206639					
						Na2SO4 as Na2O in Weak wash	Dww_0	1.785539 lb/d								
						Na2SO4 as such in Weak wash	Dww_1	4.088883 lb/d								
						Water in weak wash	Hww_0	1059.495 lb/d								