Known Variables			
Costs			
Fixed Costs			
Monthly Administrative Costs	\$13,000.00		
Monthly Refinery Overhead Costs	\$4,500.00		
Variable Costs			
Raw Material X Costs	\$1.33		
Raw Material Y Costs	\$0.73		
Direct Labor Costs Primary Product	\$0.42		
Direct Labor Costs Secondary Product K	\$0.20		
Direct Labor Costs Secondary Product M	\$0.10		
Direct Labor Costs Special Treament of Liquid Waste	\$0.25		
Selling Prices			
Primary Product Selling Price	\$5.70		
Secondary Product K Selling Price	\$0.80		
Secondary Product M Selling Price	\$0.65		
Special Treatment Liquid Waste Selling Price	\$0.00		
Available Mothly Resources			
Raw Material X	7500		
Raw Material Y	9000		

Calculated Variables		
Production Costs		
Primary Product Production Costs	\$3.21	
Secondary Product K Production Costs	\$0.87	
Secondary Product M Production Costs	\$0.46	
Special Liquid Waste Treatment Production Costs	\$0.25	
Unit Profit		
Primary Product Unit Profit	\$2.49	
Secondary Product K Unit Profit	-\$0.07	
Secondary Product M Unit Profit	\$0.19	
Special Treatment Liquid Waste Unit Profit	-\$0.25	

Decision Variables				
Production Level of Primary Product	4500			
Production Level of Secondary Product K	6000			
Production Level of Secondary Product M	0			
Production Level of Specially Treated Liquid Waste	1500			

Production Level Overview		
Resource/Product/Treatment	Resource Used/Production Level	
Raw Material X Devoted to Primary Product	4500	
Raw Material Y Devoted to Primary Product	9000	
Production Level (Primary Product)	4500	
Liquid Waste Produced (Primary Product Byproduct)	4500	
Solid Waste Produced (Primary Product Byproduct)	4500	
Raw Material X Devoted to Secondary Product K	3000	
Liquid Waste Devoted to Secondary Product K	3000	
Production Level (Secondary Product K)	6000	
Raw Material Y Devoted to Secondary Product M	0	
Liquid Waste Devoted to Secondary Product M	0	
Production Level (Secondary Product M)	0	
Liquid Waste Devoted to Secondary Product K	1500	
Production Level (Specially Treated Liquid Waste)	1500	

Constraints			
Constraint	Current Value		Bounded/Allowed Value
Total Raw Material X Used	7500	"	7500
Total Raw Material Y Used	9000	=	9000
Remaining Liquid Waste	0	=	0

Output	
Total Primary Product Rvenue	\$25,650.00
Total Secondary Product K Revenue	\$4,800.00
Total Secondary Product M Revenue	\$0.00
Total Special Treatment of Liquid Waste Revenue	\$0.00
Total Revenue	\$30,450.00
Total Monthly Administraive Costs	\$13,000.00
Total Monthly Refinery Costs	\$4,500.00
Total Fixed Costs	\$17,500.00
Total Primary Product Production Costs	\$14,437.50
Total Secondary Product K Production Costs	\$5,200.00
Total Secondary Product M Production Costs	\$0.00
Total Special Treatment of Liquid Waste Production C	\$375.00
Total Production Costs	\$20,012.50
Toral Costs	\$37,512.50
Total Profit	-\$7,062.50