

# TREATMENT BOND/TRUST CALCULATOR

(c) 2003, 2005, 2006, 2007 by SCMF

Prepared For: Patriot Mining, Inc  
 Treatment System(s) ID: Viable Site

Date (mm/dd/yy): April 3, 2007

Inflation Rate:	3.1%
Yrs to Treat start:	0
Annual Treatment Cost:	\$24,637.00
Trust Fees:	1.50%
Bond (not needed for rec):	\$117,900.00
Investment Ratios:	
stock:	80%
bond:	20%
Effective Rate of Return:	8.43%
Volatility Index:	1.16
Rec. Bond Rate of Return:	6.00%
Remaining Time on Permit:	5 years

Options	O&M only	Total with Recap	Total with Recap & Insurance	
option #1				
conventional bond:	\$1,018,353.42	\$1,026,859.61	\$1,076,303.78	bond in year
bond adjustment:	\$900,453.42	\$908,959.61	\$958,403.78	6
option #2				
fully funded trust:	\$564,768.79	\$568,070.79	\$581,093.02	trust in year 1

PV of Recap (today's \$\$) @ 8.43%	Eff RoR & 3.1% Int:	\$3,302.00 for trust in year 1	
PV of Recap (today's \$\$) @ 6.00%	Eff RoR & 3.1% Int:	\$7,302.00 for bond in year 1	\$8,506.19 for bond in year 6

Liability Insurance Factor @ \$1.00 per year, per \$1000 in the total PV of the Trust:	\$568.07 per year	PV Insurance: \$13,022.23
Liability Insurance Factor @ \$1.00 per year, per \$1000 in total Bond:	\$1,026.86 per year	PV Insurance: \$42,444.53

Fields in RED can be updated  
 Fields in BLUE are fixed or calculated  
 Fields in GREEN are partial amounts  
 Highlighted Fields in GREEN are final amounts

① - INCLUDED ADDITIONAL RECAP COST FOR RDA LIMESTONE DITCH  
 ② - INCLUDED LIABILITY INSURANCE FACTOR

243 60

Company Name Patriot Mining, Inc

Printed on 04/03/2007

Project Patriot

Site Name Viable



### AMD TREAT

### Oxic Limestone Channel (OLC)

AMDTREAT

Oxic Limestone Channel Name DITCH 1 (MD-2 Bypass Ditch)

- 1. Ditch Length Rock  ft
- 2. Bottom Width of the Ditch  ft
- 3. Ditch Depth  ft
- 4. Geo Textile Unit Cost  \$/yd2
- 5. Length of GeoTextile  ft
- 6. Slope Ratio of Ditch Sides Run  : Rise
- 7. Surveying?
- 8. Survey Rate  acres/day
- 9. Survey Unit Cost  \$/day
- 10. Clearing and Grubbing?
- 11. Clear and Grub Cost  \$/acre

- 12. Ditch Depth of Limestone  ft
- 13. Cost of Limestone  \$/yd3
- 14. Cost to Place Limestone  \$/yd3
- 15. Excavation Unit Cost  \$/yd3
- 16. Revegetation Unit Cost  \$/acre

#### OLC Sub-Totals

- 17. Excavation Cost  \$
- 18. Survey Cost  \$
- 19. Clear and Grub Cost  \$
- 20. Limestone Cost  \$
- 21. Filter Fabric Cost  \$
- 22. Revegetation Cost  \$

23. Total Cost  \$

Record Number 1 of 1

Company Name Patriot Mining  
 Project Patriot  
 Site Name Viable

Printed on 04/03/2007



### AMD TREAT RECAPITIALIZATION COST

AMD TREAT

Calculation Period  yrs Inflation Rate  % Net Return Rate  %

Recapitalization Name

A.	B.	C.	D.	E.	F.	G.
Description of Item	Unit Cost Per Item	Quantity	Total Item Cost	Life Cycle	Number of Periods	Total PV
1. 4000 Gal Plastic Tank (Replace Steel Tan	3,000	1	3,000	60	1	568
2.	4,000	1	4,000	25	3	3,498
3. Valves (for caustic drip)	200	1	200	25	3	175
4. 1 inch line (250 feet) (for caustic drip	200	1	200	10	7	536
5. 6 inch plastic PVC (300 feet) (for pumpi	550	1	550	25	3	481
6. MD2 bypass ditch (LS replacement)	1,870	1	1,870	20	3	2,044
7.	0	0	0	0	0	0
8.	0	0	0	0	0	0
9.	0	0	0	0	0	0
10.	0	0	0	0	0	0
11.	0	0	0	0	0	0
12.	0	0	0	0	0	0
13.	0	0	0	0	0	0
14.	0	0	0	0	0	0
15.	0	0	0	0	0	0
16.	0	0	0	0	0	0
17.	0	0	0	0	0	0
18.	0	0	0	0	0	0
19.	0	0	0	0	0	0
20.	0	0	0	0	0	0

Total Capital Cost  \$ PV Grand Total  \$

Company Name Patriot Mining

Printed on 04/03/2007

Project Patriot

Site Name Viable



## AMD TREAT RECAPITIALIZATION COST

**AMDTREAT**

Calculation Period  yrs Inflation Rate  % Net Return Rate  %

Recapitalization Name

A. Description of Item	B. Unit Cost Per Item	C. Quantity	D. Total Item Cost	E. Life Cycle	F. Number of Periods	G. Total PV
1. 4000 Gal Plastic Tank (Replace Steel Tan	3,000	1	3,000	60	1	146
2.	4,000	1	4,000	25	3	1,547
3. Valves (for caustic drip)	200	1	200	25	3	77
4. 1 inch line (250 feet) (for caustic drip	200	1	200	10	7	296
5. 6 inch plastic PVC (300 feet) (for pumpi	550	1	550	25	3	213
6. MD2 bypass ditch (LS replacement)	1,870	1	1,870	20	3	1,022
7.	0	0	0	0	0	0
8.	0	0	0	0	0	0
9.	0	0	0	0	0	0
10.	0	0	0	0	0	0
11.	0	0	0	0	0	0
12.	0	0	0	0	0	0
13.	0	0	0	0	0	0
14.	0	0	0	0	0	0
15.	0	0	0	0	0	0
16.	0	0	0	0	0	0
17.	0	0	0	0	0	0
18.	0	0	0	0	0	0
19.	0	0	0	0	0	0
20.	0	0	0	0	0	0

Total Capital Cost  \$ PV Grand Total  \$