

M&T Ranch / Llano Seco Intake Project

Comparison of Opinions of Probable Cost

Mitigation Rate **0.5**:1

	Rock Installation			Mitigation (\$)	Total Project Cost (\$)
	Tons	\$/Ton	Total		
Dike Option	67,000	\$ 35.55	\$ 2,382,118	\$ 1,191,059	\$ 6,500,000
Pump Station 3600' DS	14,400	\$ 39.00	\$ 561,600	\$ 280,800	\$ 13,200,000
Pump Station 2200' DS	950	\$ 8.00	\$ 7,600	\$ 3,800	\$ 9,500,000

Estimated O&M Costs

M&T Ranch Pump Station Relocation

2007 M&T Costs for Existing Pump Station

Gas	\$165,000
Electricity	\$4,000
Maintenance & Repair	\$27,000
Misc	\$10,000
	\$206,000

Total Acre-ft pumped	40,500
\$/A-F (2007)	\$5.09

Assumptions for New Pump Station

Avg Annual Pumped Flow	40,500 Acre-ft/year
Efficiency	80 %
Electricity Cost	\$0.18 \$/kW-hr

Replacement Costs

\$130,000 to replace pump once every 15 years
 \$70,000 to replace motor once every 25 years

Avg Head (ft)	22	22	25.5	27.2
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Proposed Pump Station	Location of Pump Station			
	Existing Pump Station	Groin Option	New P.S. 2200-ft DS	New P.S. 3600-ft DS
Electricity, pumping	206,000	206,000	238,000	254,000
Electricity, other	\$4,000	\$4,000	\$6,000	\$6,000
General Maint & Repair	\$30,000	\$30,000	\$30,000	\$30,000
Pump Replacement, Amortized	\$26,000	\$26,000	\$26,000	\$26,000
Motor Replacement, Amortized	\$8,400	\$8,400	\$8,400	\$8,400
Misc	\$10,000	\$10,000	\$10,000	\$10,000
Rock Maintenance & Repair	\$0	\$100,000	\$0	\$0
Total	\$284,400	\$384,400	\$318,400	\$334,400
\$/Acre-ft	\$7.02	\$9.49	\$7.86	\$8.26
Increase	\$0.00	\$100,000	\$34,000	\$50,000
Increment (\$/Acre-Ft)	+\$0.00	+\$2.47	+\$0.84	+\$1.23

Alternative	O&M Increase (\$)	Increment (\$/Acre-Ft)
Dike Option	\$100,000	+\$2.47
Pump Station 3600' DS	\$34,000	+\$0.84
Pump Station 2200' DS	\$50,000	+\$1.23