
APPENDIX I

RECLAMATION COST ESTIMATES FOR RESOLUTION PLAN OF OPERATIONS ACTIVITIES

Resolution Pre-Feasibility Activities

Reclamation Cost Estimates for Resolution Pre-Feasibility Activities

D10R Dozer - Task	Area (feet ²)	New Access Road Length (ft)	Road Width (ft)	Avg. Estimated Rip/Regrade Depth (ft)	Total Regrade Volume (cy)	Maximum Production (cy/hr)	Productivity Correction Factor	Factored Production (cy/hr)	Total Time (hours)
Rip/light regrade access road surfaces only		1,727	15.0	1.00	959.4	500	0.760	380.0	2.5
Rip/light regrade road improvement surfaces only	1,454,904.0			1.00	53,885.3	500	0.760	380.0	141.8
Drill pads	230,868.0			1.00	8,550.7	500	0.760	380.0	22.5
Travel time between locations									16.0

Cost Summary

Equipment	Area Reclaimed (acres)	Hours	Cost							
			Equipment (\$/hr) ²	Subtotal Equipment (\$)	Labor ³ (\$/hr)	Subtotal Labor (\$)	Revegetation ⁴ (\$/ac)	Subtotal Revegetation (\$)	Total (\$)	Per Acre ⁵ (\$/ac)
DOZER										
Mobilization/Demobilization Fee				\$ 9,900.00					9,900.00	252.23
Rip/light regrade access road surfaces only	0.6	2.5	250.00	631.21	30.66	77.41	224.00	134.40	843.03	1,405.04
Rip/light regrade improvement surfaces only	33.4	141.8	250.00	35,450.88	30.66	4,347.70	224.00	7,481.60	47,280.18	1,415.57
Borehole drill pads	5.3	22.5	250.00	5,625.44	30.66	689.90	224.00	1,187.20	7,502.54	1,415.57
Travel time between locations		16.0	250.00	4,000.00	30.66	490.56		-	4,490.56	114.26
TOTAL	39.3	182.8		\$ 45,707.53		\$ 5,605.57		\$ 8,803.20	\$ 70,016.30	\$ 4,602.68

1. Assume average of 1 foot ripping
2. Assume 10 hour operating day at \$2,500 per day rental cost - Mob/Demob is estimated delivery charge
3. Rates are based on Davis Bacon Indices General Decision (1) AZ20030016 Modification 20 and (2) AZ20030012 Modification 19, dated 12/22/06 for Pima County Arizona (AZ20030016 is for heavy dam construction, and AZ20030012 is for heavy construction based on non-union indexes)
4. Seed mixes for revegetation plus an amendment cost for 16-16-8 fertilizer and a charge for testing suitability of plant growth material
5. Per acre cost for discrete reclamation reflects travel time between sites and has increased cost by approximately 25%.

Resolution Pre-Feasibility Activities

Reclamation Cost Estimates for Resolution Pre-Feasibility Activities

D10R Dozer - Task	Area (feet ²)	New Access Road Length (ft)	Road Width (ft)	Avg. Estimated Rip/Regrade Depth (ft)	Total Regrade Volume (cy)	Maximum Production (cy/hr)	Productivity Correction Factor	Factored Production (cy/hr)	Total Time (hours)
Rip/light regrade access road surfaces only		4,689	15.0	1.00	2,605.0	500	0.760	380.0	6.9
Rip/light regrade road improvement surfaces only	1,424,412.0			1.00	52,756.0	500	0.760	380.0	138.8
Drill pads	230,868.0			1.00	8,550.7	500	0.760	380.0	22.5
Travel time between locations									16.0

Cost Summary

Equipment	Area Reclaimed (acres)	Hours	Cost							
			Equipment (\$/hr) ²	Subtotal Equipment (\$)	Labor ³ (\$/hr)	Subtotal Labor (\$)	Revegetation ⁴ (\$/ac)	Subtotal Revegetation (\$)	Total (\$)	Per Acre ⁵ (\$/ac)
DOZER										
Mobilization/Demobilization Fee				\$ 9,900.00					9,900.00	246.58
Rip/light regrade access road surfaces only	2.2	6.9	250.00	1,713.82	30.66	210.18	224.00	492.80	2,416.80	1,098.54
Rip/light regrade improvement surfaces only	32.7	138.8	250.00	34,707.90	30.66	4,256.58	224.00	7,324.80	46,289.27	1,415.57
Borehole drill pads	5.3	22.5	250.00	5,625.44	30.66	689.90	224.00	1,187.20	7,502.54	1,415.57
Travel time between locations		16.0	250.00	4,000.00	30.66	490.56		-	4,490.56	111.71
TOTAL	40.2	184.2		\$ 46,047.15		\$ 5,647.22		\$ 9,004.80	\$ 70,599.18	\$ 4,287.97

1. Assume average of 1 foot ripping
2. Assume 10 hour operating day at \$2,500 per day rental cost - Mob/Demob is estimated delivery charge
3. Rates are based on Davis Bacon Indices General Decision (1) AZ20030016 Modification 20 and (2) AZ20030012 Modification 19, dated 12/22/06 for Pima County Arizona (AZ20030016 is for heavy dam construction, and AZ20030012 is for heavy construction based on non-union indexes)
4. Seed mixes for revegetation plus an amendment cost for 16-16-8 fertilizer and a charge for testing suitability of plant growth material
5. Per acre cost for discrete reclamation reflects travel time between sites and has increased cost by approximately 25%.