

Soil Conservation Structures & Earthworks Contract Prices September 2004

Gully Battering

Specifications: 95% topsoil stripping, finished batter slopes 5:1, minimum floor width 2m

Gully Depth	Gully Width	Earthwork Volume	Bulldozer	Grader
1 m	4 m	2.5 m ³	\$4/m	\$3/m
2 m	8 m	5 m ³	\$7/m	\$5/m
3 m	12 m	7.5 m ³	\$10/m	\$7/m
4 m	16 m	10 m ³	\$13/m	\$9/m
5 m	20 m	12.5 m ³	\$16/m	\$12/m

Gully Edging

Specifications: 95% topsoil stripping, finished batter slopes 3:1, minimum floor width 2m

Gully Depth	Gully Width	Earthwork Volume	Excavator
1 m	4 m	1.5 m ³	\$5.7/m
2 m	8 m	3 m ³	\$10/m
3 m	12 m	4.5 m ³	\$14/m
4 m	16 m	6 m ³	\$19/m
5 m	20 m	7.5 m ³	\$23/m

Dam Construction (compacted bank volume)

Farm dam (say 2,000 m ³ bank), built with scraper and bulldozer	\$2.20/m ³
Large dam with watering and compaction	\$3.50/m ³
Large dam with selected clay and specified moisture & compaction	\$4.00/m ³
Bulldozer only	\$2.20/m ³
Scraper only	\$2.20/m ³
Water cart only	\$0.5/m ³
Compactor only	\$0.8/m ³

Diversion Banks

Specifications: Batter slope 2.5:1, crest width 0.3m, topsoiled and compacted

Bank Height	Earthwork Volume	Long runs/moist soil	Short runs/dry soil
0.3 m	0.3 m ³ /m	\$1.50/m	\$2.00/m
0.6 m	1.0 m ³ /m	\$3.00/m	\$4.00/m
0.9 m	2.3 m ³ /m	\$5.50/m	\$7.00/m

Trickle Flow Pipes

PVC pipe, concrete inlet, 150 mm diameter pipe	\$1,500
PVC pipe, concrete inlet, 300 mm diameter pipe	\$2,300
Welded polyethelene pipe/inlet, 300 mm diameter pipe	\$3,500
Welded polyethelene pipe/inlet, 450 mm diameter pipe	\$4,800

Grass Chutes

Approximately	\$7/m ²
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Rock Chutes

Rock chute, design capacity 5 m ³ /sec, 3 m drop, 80 km from quarry	\$29,000
Cost per m ³ of rock	\$55
Rock chute, design capacity 2 m ³ /sec, 2 m drop, 50 km from quarry	\$7,000
Cost per m ³ of rock	\$40

Gabion Structure

Drop (with floor), design capacity 3m ³ /sec, 1 m drop, (rock price \$13/m ³)	\$6,000
Cost per gabion 2 m x 1 m x 1 m	\$240
Weir (no floor), design capacity 2m ³ /sec, 1 m drop, (rock price \$13/m ³)	\$5,000
Cost per gabion 2 m x 1 m x 1 m	\$340

Pipe Structure

Welded polyethelene/concrete inlet/headwall, 1000mm diameter	\$18,000
“Armco” aluminium pipe/concrete inlet/headwall, 1200mm diam	\$23,000

Concrete Drop Structure

Drop structure, design capacity 22 m ³ /sec, drop 2m,	\$20,000
Cost per m ³ concrete	\$650/m ³

Plant Hire

Bulldozer 198 hp	\$148/hour
Excavator 20 tonne	\$110/hour
Grader articulated with rippers	\$100/hour
Scraper, self loading, 11 yard	\$140/hour
Truck & dog trailer	\$110/hour
Float	\$150/hour

Labour

Casual employee	\$260/day
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