Appendix 8-1

Reclamation Cost Estimates

Bonding Calculations
Horse Canyon MineC/007/013
Lila Canyon Section

Bond Summary

Direct Costs		
Subtotal Demolition and Removal	$501,201.00	
Subtotal Backfilling and Grading	$412,588.00	
Subtotal Revegetation	$253,425.00	
Direct Costs	$1,167,214.00	
Indirect Costs		
Mob/Demob	$116,721.00	10.0%
Contingency	$58,361.00	5.0%
Engineering Redesign	$29,180.00	2.5%
Main Office Expense	$79,371.00	6.8%
Project Mainagement Fee	$29,180.00	2.5%
Subtotal Indirect Costs	$312,813.00	26.8%
Total Cost	$1,480,027.00	
Escalation factor		0.0444
Number of years		3
Escalation	$206,022.00	
Reclamation Cost	$1,686,049.00	
Bond Amount (rounded to nearest $1,000)	$1,686,000.00	
2008 Dollars		
Bond Posted 2003	$1,556,000.00	
Difference Between Cost Estimate and Bond	-$130,000.00	
Percent Difference	-7.71%	

T	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Load and Haul Backfill Material															177988
Load and Haul Topsoil															195256
Support															39344
Total															412588

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	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Horse Canyon Mine Lila Canyon Project															
Grading															
Load and Haul Backfill Material															
631G (9-51) (2nd04)	19145	19145	0.1	52	267.14	3	801.42	$/HR	39201	CY	393	CY/HR	99.7	HR	79902
D9R Semi-U EROPS (9-54) (2H04)	17115	72.3	0.1	52	238.5	1	238.5	$/HR					99.7	HR	23778
Subtotal															103680
Spread and Compact Material															
Assume 4 passes 8 mph 10 in. lift															
D9R Semi-U EROPS (9-54) (2H04)	17115	72.3	0.1	52	238.5	1	238.5	$/HR					99.7	HR	23778
825G((6-13) (4Q03))	12825	43.5	0.1	47.15	175.16	1	175.16	$/HR					99.7	HR	17463
Subtotal															41241
Upper Road Area															
769D (20-11) (1Q04)	10520	40.4	0.1	42	152.19	1	152.19	$/HR	5000	CY	289	CY/HR	17.3	HR	2633
988G EROPS (9-38) (3Q03)	9010	40.05	0.1	52	152.37	4	609.48	$/HR					17.3	HR	10544
CAT 325BL (10-21)(2nd04)	9170	35.55	0.1	52	148.42	1	148.42	$/HR					17.3	HR	13177
D9R Semi-U EROPS (9-54) (2H04)	17115	72.3	0.1	52	238.5	1	238.5	$/HR	5000		120	CY/HR	41.7	HR	9945
															9945
Subtotal															19890
Total															177988

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Horse Canyon Mine Lila Canyon Project															
Grading															
Load and Haul Topsoil															
631G (9-51) (2nd04)	19145	19145	0.1	52	267.14	3	801.42	$/HR	50000	CY	393	CY/HR	127.2	HR	101941
D9R Semi-U EROPS (9-54) (2H04)	17115	72.3	0.1	52	238.5	1	238.5	$/HR					127.2	HR	30337
Subtotal															132278
769D (20-11) (1Q04)	10520	40.4	0.1	42	152.19	1	152.19	$/HR	10000	CY	289	CY/HR	34.6	HR	5266
988G EROPS (9-38) (3Q03)	9010	40.05	0.1	52	152.37	4	609.48	$/HR					34.6	HR	21088
CAT 325BL (10-21)(2nd04)	9170	35.55	0.1	52	148.42	1	148.42	$/HR					34.6	HR	5135
Subtotal															31489
															62978
Total															195256

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Horse Canyon Mine Lila Canyon Project															
Grading															
Support															
5,000 gal H2O truck Diesel (20-17) (1Q04)	4725	28.05	0.1	42	102.39	1	102.39	$/HR					226.9	HR	23232
Pickup Truck Crew 4x4 1 ton (20-17) (2N04)	820	7.8	0.1	0	13.71	1	13.71	$/HR					226.9	HR	3111
Foreman Average, Outside					57.3	1	57.3	$/HR					226.9	HR	13001
CLAB					41.55	2	83.1	$/HR					226.9	HR	39344
Total															39344

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Vegetation																			
	Ground Preparation																			
	See Chapter 5 page 95-96 Sec. 553.230																			
	Soil to be ripped	75 HP Dozerw/scarifiers	M029107103100	3.87	MSF					25.3						AC		1102	MSF	4265
	Gouging/Pocking																			
	Assume 340 CY/AC	Excavation Bulk Bank 2 CY (322BL)	M023154240260	1.7	/CY					25.3						AC		8602	CY	14623
	Subtotal																			18888
	Seeding																			
	Fertilize Material	Fertilizer Hyrdor Spread Mat. Only	Reveg006	8.71	/MSF					25.3						AC		1102	MSF	9598
	Fertilize Application	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	19.13	/MSF					25.3						AC		1102	MSF	21081
	Seeding Materials	Grasses for Lila Canyon	Lila07131	140.5	/AC					25.3						AC		25.3	AC	3555
	Seeding Materials	Forbs for Lila Canyon	Lila07132	92.2	/AC					25.3						AC		25.3	AC	2333
	Seeding Materials	Shrubs for Lila Canyon	Lila07133	106.45	/AC					25.3						AC		25.3	AC	2693
	Seeding Application	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	19.13	/MSF					25.3						AC		1102	MSF	21081
	Mulch Materials	Hay 1" material only 029105000250	Reveg001	68	/MSF					25.3						AC		1102	MSF	74936
	Mulch Application	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	19.13	/MSF					25.3						AC		1102	MSF	21081
	Subtotal																			156358
	Reseeding																			78179
	Assume 50% reseeding rate																			
	Subtotal																			78179
	Total																			253425

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Office Bathhouse																			$77,194
	Shop Warehouse																			$90,803
	Security Shack																			$505
	Mine Substation																			$13,487
	Underground Power Lines																			left in place
	Water Treatment Plant																			$1,848
	Potable Water Tank																			1100
	Process Water Tank																			1100
	Sewer Tank																			$1,421
	Drain Field																			left in place
	Ventilation Fan																			$52,340
	Conveyor Tunnels to Coal Stockpile																			11559
	Conveyor ROM Stockpile to Crusher																			4404
	Conveyor Crusher to Loudout Bin																			$6,469
	Conveyor Loudout Bin Truck Loadout																			$1,764
	Reclaim Escape Tunnel Fan Fan House																			13923
	ConveyorStoragePileStakingTube																			8765
	Crusher Screen Plant																			3922
	Truck Scale to Loadout																			$6,201
	Coal Storage Bin																			$3,254
	Guard Rail																			18088
	Underground Pipes																			Left in Place
	Chain Link Fence																			$4,380
	Mine Facilities Rd Truck Loadout Rd																			$54,159
	Office Bathhouse Warehouse Parking																			$91,896
	Mine Parking																			$22,989
	Fuel Tanks																			$4,368
	Powder and Cap Magazine																			$3,220
	Culverts																			2042
	Total																			$501,201

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Office Bathhouse																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF	150	100	15								FT		225000	CF	45000
	Structure's Vol. Demolished																0.3	2500	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		600	ton	21000
	Subtotal																			66000
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY	150	100	1								FT		556	CY	2207
	Concrete's Vol. Demolished																1.3	723	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													723	CY	1005
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													723	CY	2487
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													723	CY	5495
	Subtotal																			11194
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			77194

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Shop Warehouse																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF	150	100	20								FT		300000	CF	60000
	Structure's Vol. Demolished																0.3	3333	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		800	ton	28000
	Subtotal																			88000
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY	150	100	0.25								FT		139	CY	552
	Concrete's Vol. Demolished																1.3	181	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													181	CY	252
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													181	CY	623
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													181	CY	1376
	Subtotal																			2803
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			90803

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Security Shack																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF	20	10	8								FT		1600	CF	320
	Structure's Vol. Demolished																0.3	18	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		4	ton	140
	Subtotal																			460
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY	20	10	0.25								FT		2	CY	8
	Concrete's Vol. Demolished																1.3	3	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													3	CY	4
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													3	CY	10
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													3	CY	23
	Subtotal																			45
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			505

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Mine Substation																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment 's Disposal Cost	Mechanical equipment heavy	15055 300 3600	805	/ton							4			4	ton		16	ton	12880
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			12880
	Equipment 's Disposal Cost	Chain link remove 8'-10'	02220 220 1700	2.92	/LF	160										FT		160	FT	467
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			467
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY	20	20	0.5							4	FT		7	CY	28
	Concrete's Vol. Demolished																1.3	9	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													9	CY	13
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													9	CY	31
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													9	CY	68
	Subtotal																			140
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			13487

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Underground Power Lines																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			left in place

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Water Treatment Plant																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						1800					CF		1600	CF	360
	Structure's Vol. Demolished																0.3	20	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		5	ton	175
	Subtotal																			535
	Equipment 's Disposal Cost																			
	Dismantling Cost	3000 gal. to 5000 gal. tank	02115 200 0110	545	Ea.										1	EA		1	EA	545
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs	3000 gal. to 5000 gal. tank	02115 200 1023	690	Ea.										1	EA		1	EA	690
	Subtotal																			1235
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY	15	15	0.5								FT		4	CY	16
	Concrete's Vol. Demolished																1.3	5	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													5	CY	7
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													5	CY	17
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													5	CY	38
	Subtotal																			78
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			1848

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Potable Water Tank																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF			20	15							FT		3534	CF	707
	Structure's Vol. Demolished																0.3	39	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		9	ton	315
	Subtotal																			1022
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY	15	15	0.5								FT		4	CY	16
	Concrete's Vol. Demolished																1.3	5	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													5	CY	7
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													5	CY	17
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													5	CY	38
	Subtotal																			78
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			1100

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Process Water Tank																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF			20	15							FT		3534	CF	707
	Structure's Vol. Demolished																0.3	39	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		9	ton	315
	Subtotal																			1022
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY	15	15	0.5								FT		4	CY	16
	Concrete's Vol. Demolished																1.3	5	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													5	CY	7
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													5	CY	17
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													5	CY	38
	Subtotal																			78
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			1100

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Sewer Tank																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Remove Tank	3000 gal. to 5000 gal. tank	02115 200 0110	545	Ea.										1	EA		1	EA	545
	Remove Sludge	3000 gal. to 5000 gal. tank	02115 200 0300	186	Ea.										1	EA		1	EA	186
	Disposal Costs	3000 gal. to 5000 gal. tank	02115 200 1023	690	Ea.										1	EA		1	EA	690
	Subtotal																			1421
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			1421

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Drain Field																			
	Structure's Demolition Cost	will remain in place at reclamation																		
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			left in place

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Ventilation Fan																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment 's Disposal Cost	Mechanical equipment heavy	15055 300 3600	805	/ton							10			4	ton		40	ton	32200
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			32200
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs	Helicopter	Willow Creek 1	2000	/HR									10		HR		10	HR	20000
	Disposal Costs																			
	Subtotal																			20000
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY	20	20	0.5								FT		7	CY	28
	Concrete's Vol. Demolished																1.3	9	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													9	CY	13
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													9	CY	31
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													9	CY	68
	Subtotal																			140
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			52340

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Conveyor Tunnels to Coal Stockpile																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF	320	6	20								FT		38400	CF	7680
	Structure's Vol. Demolished																0.3	427	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		102	ton	3570
	Subtotal																			11250
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						15							15	CY	60
	Concrete's Vol. Demolished																1.3	20	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													20	CY	28
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													20	CY	69
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													20	CY	152
	Subtotal																			309
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			11559

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Conveyor ROM Stockpile to Crusher																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF	280	5	10								FT		14000	CF	2800
	Structure's Vol. Demolished																0.3	156	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		37	ton	1295
	Subtotal																			4095
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						15							15	CY	60
	Concrete's Vol. Demolished																1.3	20	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													20	CY	28
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													20	CY	69
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													20	CY	152
	Subtotal																			309
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			4404

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Conveyor Crusher to Loudout Bin																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF	210	5	20								FT		21000	CF	4200
	Structure's Vol. Demolished																0.3	233	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		56	ton	1960
	Subtotal																			6160
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						15							15	CY	60
	Concrete's Vol. Demolished																1.3	20	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													20	CY	28
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													20	CY	69
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													20	CY	152
	Subtotal																			309
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			6469

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Conveyor Loudout Bin Truck Loadout																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF	50	5	20								FT		5000	CF	1000
	Structure's Vol. Demolished																0.3	56	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		13	ton	455
	Subtotal																			1455
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						15							15	CY	60
	Concrete's Vol. Demolished																1.3	20	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													20	CY	28
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													20	CY	69
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													20	CY	152
	Subtotal																			309
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			1764

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Reclaim Escape Tunnel Fan Fan House																			
	Currugated Steel	Steel Bld. Large	02220 110 0012	0.2	/CF						26880					CF		26880	CF	5376
	Escape Tunnel	Steel Bld. Large	02220 110 0012	0.2	/CF						1257					CF		1257	CF	251
	Fan	Steel Bld. Large	02220 110 0012	0.2	/CF						64					CF		64	CF	13
	Fan House	Steel Bld. Large	02220 110 0012	0.2	/CF						512					CF		512	CF	102
	Structure's Vol. Demolished																0.3	319	CF	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		77	ton	2695
	Subtotal																			8437
	Excavation and Backfill																			
	Reclaim Tunnel	Excavation Bulk Bank 2 CY (322BL)	02315 424 0260	1.7	/CY	275	14	10								FT		1426	CY	2424
	Reclaim Tunnel	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY													1426	CY	2182
	Escape Tunnel	Excavation Bulk Bank 2 CY (322BL)	02315 424 0260	1.7	/CY	100	4	10								FT		148	CY	252
	Escape Tunnel	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY													148	CY	226
	Subtotal																			5084
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						20							20	CY	79
	Concrete's Vol. Demolished																1.3	26	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													26	CY	36
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													26	CY	89
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													26	CY	198
	Subtotal																			402
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			13923

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	ConveyorStoragePileStakingTube																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF			80	20							FT		25133	CF	5027
	Structure's Vol. Demolished																0.3	279	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		67	ton	2345
	Subtotal																			7372
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY	25	25	3								FT		69	CY	274
	Concrete's Vol. Demolished																1.3	90	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													90	CY	125
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													90	CY	310
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													90	CY	684
	Subtotal																			1393
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			8765

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Crusher Screen Plant																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						12000					CF		12000	CF	2400
	Structure's Vol. Demolished																0.3	133	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		32	ton	1120
	Subtotal																			3520
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						20							20	CY	79
	Concrete's Vol. Demolished																1.3	26	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													26	CY	36
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													26	CY	89
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													26	CY	198
	Subtotal																			402
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			3922

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Truck Scale to Loadout																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						18850					CF		18850	CF	3770
	Structure's Vol. Demolished																0.3	209	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		50	ton	1750
	Subtotal																			5520
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						34							34	CY	135
	Concrete's Vol. Demolished																1.3	44	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													44	CY	61
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi, r	02315 490 0320	3.44	/CY													44	CY	151
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													44	CY	334
	Subtotal																			681
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			6201

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Coal Storage Bin																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						10000					CF		10000	CF	2000
	Structure's Vol. Demolished																0.3	111	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	ECDC	ECDC	35	/TON								480			lb/cf		27	ton	945
	Subtotal																			2945
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						15							15	CY	60
	Concrete's Vol. Demolished																1.3	20	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													20	CY	28
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. r	02315 490 0320	3.44	/CY													20	CY	69
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													20	CY	152
	Subtotal																			309
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			3254

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Guard Rail																			
	Structure's Demolition Cost	Guiderail remove	02220 240 0800	11.9	LF	1520										FT		1520	FT	18088
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			18088
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			18088

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Underground Pipes	will remain in place at reclamation																		
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			Left in Place

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Chain Link Fence																			
	Structure's Demolition Cost	Chain link remove 8'-10'	02220 220 1700	2.92	/LF	1500										FT		1500	FT	4380
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			4380
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			4380

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Mine Facilities Rd Truck Loadout Rd																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Facilities Road																			
	Asphalt Demolition																			
	Demolition Cost	Pavement Removal 4-6"	02220 250 5050	6.55	/SY	1750	24									SY		4667	SY	30569
	Asphalt's Vol. Demolished							4.00								IN	1.3	674	CY	
	Loading Cost																			
	Transportation Cost	16.5 CY Dump Trailer 10 mi. rnd. trip	02315 490 1120	9.75	/CY															
	Disposal Costs	ECDC	ECDC	35	/TON								1			CY/Ton		674	CY	23590
	Subtotal																			54159
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			54159

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Office Bathhouse Warehouse Parking																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Office Area																			
	Asphalt Demolition																			
	Demolition Cost	Pavement Removal 4-6"	02220 250 5050	6.55	/SY	475	150									SY		7917	SY	51856
	Asphalt's Vol. Demolished							4.00								IN	1.3	1144	CY	
	Loading Cost																			
	Transportation Cost	16.5 CY Dump Trailer 10 mi. rnd. trip	02315 490 1120	9.75	/CY															
	Disposal Costs	ECDC	ECDC	35	/TON								1			CY/Ton		1144	CY	40040
	Subtotal																			91896
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			91896

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Mine Parking																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Parking Lot																			
	Asphalt Demolition																			
	Demolition Cost	Pavement Removal 4-6"	02220 250 5050	6.55	/SY	100	200									SY		2222	SY	14554
	Asphalt's Vol. Demolished							3.00								IN	1.3	241	CY	
	Loading Cost																			
	Transportation Cost	16.5 CY Dump Trailer 10 mi. rnd. trip	02315 490 1120	9.75	/CY															
	Disposal Costs	ECDC	ECDC	35	/TON								1			CY/Ton		241	CY	8435
	Subtotal																			22989
	Total																			22989

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Fuel Tanks																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Removal Tanks	3000 gal. to 5000 gal. tank	02115 200 0110	580	Ea.										3	EA		3	EA	1740
	Remove sludge water products	3000 gal. to 5000 gal. tank	02115 200 0300	186	Ea.										3	EA		3	EA	558
	Haul tank recycle center	3000 gal. to 5000 gal. tank	02115 200 1023	690	Ea.										3	EA		3	EA	2070
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			4368
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			4368

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Powder and Cap Magazine																			
	Structure's Demolition Cost	Mechanical equipment heavy	15055 300 3600	805	/ton							4				TON		4	TON	3220
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			3220
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			3220

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Culverts																			
	DC-5	Excavation Bulk Bank 2 CY (322BL)	02315 424 0260	1.7	/CY	40	1.5	3								FT		7	CY	12
	DC-5	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY	40	1.5	3								FT		7	CY	11
	DC-6	Excavation Bulk Bank 2 CY (322BL)	02315 424 0260	1.7	/CY	60	2	3								FT		13	CY	22
	DC-6	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY	60	2	3								FT		13	CY	20
	DC-7	Excavation Bulk Bank 2 CY (322BL)	02315 424 0260	1.7	/CY	40	2	3								FT		9	CY	15
	DC-7	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY	40	2	3								FT		9	CY	14
	DC-8	Excavation Bulk Bank 2 CY (322BL)	02315 424 0260	1.7	/CY	40	1.5	3								FT		7	CY	12
	DC-8	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY	40	1.5	3								FT		7	CY	11
	DC-9	Excavation Bulk Bank 2 CY (322BL)	02315 424 0260	1.7	/CY	40	1.5	3								FT		7	CY	12
	DC-9	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY	40	1.5	3								FT		7	CY	11
	UC-1	Excavation Bulk Bank 2 CY (322BL)	02315 424 0260	1.7	/CY	530	5	6								FT		589	CY	1001
	UC-1	Backfill Trench Mininal Haul 2 1/4 CY	02315 610 3080	1.53	/CY	530	5	6								FT		589	CY	901
	Subtotal																			2042
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			2042