Coal Handling Facilities & Stockpiles

Map Code: identified on Plate II-3
Status: existing - 1st~~4th~~ quarter 2006~~2~~

The coal exits the mine portal via a 54-inch conveyor belt and is delivered to a transfer point located on the lower bench of the boxcut excavation. The transfer point moves the coal to a 4~~2~~8-inch conveyor belt which moves the coal off the lower bench, past a sweep sampler to ~~the crusher/screen building located on the top area of the site. This transfer point will be equipped with the ability to dump coal onto a surge coal pile located on the lower bench within the portal excavation. Crushing is performed as the coal is transferred to a 5' by 10' fixed sloping screen. Coal passing through the screen is fed to a third conveyor. Coal trapped by the screen is fed into a crusher for processing.~~

~~The crushed coal leaves the crusher/screen building by conveyor belt to~~ a radial stacker. The radial stacker can be fed directly into a hopper/feeder which conveys the coal to the truck loadout facility. The coal is crushed directly at the load out hopper. The radial stacker will also feed a small coal stockpile when haul trucks are not available. The coal from the stacker stockpile will be fed into the hopper/feeder by front-end loaders.

This facility will handle a throughput capacity of approximately 1,300,000 tons of coal per year.

Surface drainage from the lower coal stockpile located on the lower bench area runs to a sump located on the portal entry level. Some drainage runoff may flow into the underground mine workings. Runoff collected in the sump will be pumped to the underground mine. Surface runoff from the radial stockpile and truck loadout facilities is conveyed by berms and culverts to sedimentation pond no. 9.

Stream Diversion - Unaffected Drainage

Map Code: identified on Plate II-3
Status: existing - 3rd quarter 2002

This diversion is propose as a temporary diversion. The diversion will intercept and divert natural drainage from the upstream watershed around the site. The natural stream is ephemeral.

Inserted 10/2002
Revised 9/2003
Revised 2/2006

Mine # C/015/0015
File Incoming
Record # 0004
Doc. Date 2·27·06
Recd. Date 2·27·06

Bonding Calculations

Direct Costs		
Subtotal Demolition and Removal	$202,096.00	
Subtotal Backfilling and Grading	$843,656.00	
Subtotal Revegetation	$510,251.00	
Direct Costs	$1,556,003.00	
Indirect Costs		
Mob/Demob	$155,600.00	10.0%
Contingency	$77,800.00	5.0%
Engineering Redesign	$38,900.00	2.5%
Main Office Expense	$105,808.00	6.8%
Project Mainagement Fee	$38,900.00	2.5%
Subtotal Indirect Costs	$417,008.00	26.8%
Total Cost	$1,973,011.00	
Escalation factor		0.012
Number of years		5
Escalation	$121,256.00	
Reclamation Cost Escalated	$2,094,267.00	
Bond Amount (rounded to nearest $1,000) 2009 Dollars	$2,094,000.00	
Bond Posted 2004 dollars	$2,208,000.00	
Difference Between Cost Estimate and Bond	$114,000.00	
Percent Difference	5.44%	

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
	Tipple Stacker Reclaim 01																			19595
	Tipple Control Station 02																			377
	Tipple Transformer Bld 03																			346
	Steam Cleaner Bld 04																			360
	Transformer Storage Pad 05																			280
	Mine Substation 06																			5144
	Rock Dust Silo 07																			454
	Mine Fan Bld 08																			1086
	Foreman Office Trailer 09																			1448
	Warehouse Office Bld 10																			2920
	Fresh Water Treatment Bld 11																			696
	Explosive Storage Bld 12																			44
	Bathhouse 3 Trailers 13																			3989
	Truck Scale Old 14																			1182
	Truck Scale New 15																			1049
	Bridge Quitchupah Creek 16																			1007
	Sewage Pumping Station 17																			437
	Borehole Pump Facility 18																			15076
	Power Line 19																			2593
	Metal Storage Bld 20																			190
	Storage Tank Containment Area 21																			655
	Water Tank 100000 Gallon 22																			638
	Stoker Oil Heater Enclosure 23																			816
	NPDES Outfalls 24																			587
	Storage Trailers Three 25																			3989
	Fence 26																			41760
	Seal Portals 27																			20800
	4th East Portal																			
	Crusher Screen Building 28																			10242
	Conveyor System 29																			343
	Radial Stacker 30																			928
	Water Tank 31																			4805
	Rock Dust Bin 32																			513
	Ventilation Fan 33																			8896
	Coal Stockpile Feeder 34																			74
	Loadout 35																			6519
	Powerline 36																			9513
	Entrances 4th East 37																			25600
	Wind Fence 38																			1003
	Cattle Guard 39																			361
	Concrete Barriers 40																			1270
	Sampler Building 41																			4511
	Total																			202096

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
	Tipple Stacker Reclaim 01																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						996					CY		26892	CF	5378
	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	On site disposal	02220 240 5550	7.6	/CY															
	Steel's Weight											112				TON		112	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									7		HR		0.9	Day	392
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			5770
	Equipment 's Disposal Cost	Steel Bld. Large	02220 110 0012	0.2	/CF	754	5	3										11310	CF	2262
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs													1		HR		0.1	DY	
	Transport Costs	Truck dump 16 ton payload	01590 200 5300	435.96	/day							16				TON		16	TON	44
	Disposal Costs																			
	Subtotal																			2306
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						305					CY		305	CY	1211
	Concrete's Vol. Demolished																1.3	397	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													397	CY	552
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													397	CY	1366
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													397	CY	3017
	Subtotal																			6146
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						150					CY		150	CY	596
	Concrete's Vol. Demolished																1.3	195	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													195	CY	271
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													195	CY	671
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													195	CY	1482
	Subtotal																			3020
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						117					CY		117	CY	464
	Concrete's Vol. Demolished																1.3	152	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													152	CY	211
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													152	CY	523
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													152	CY	1155
	Subtotal																			2353
	Total																			19595

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
	Tipple Control Station 02																			
	Structure's Demolition Cost										23					CY		621	CF	0
	Structure's Vol. Demolished										5					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	7	/TON													7	TON	49
	Disposal Cost Non Steel	On site disposal	02220 240 5550	7.6	/CY						6					CY		6	CY	46
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			269
	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													5.25	CY	21
	Concrete's Vol. Demolished																1.3	7	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													7	CY	10
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.44	/CY													7	CY	24
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													7	CY	53
	Subtotal																			108
	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																			377

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
	Tipple Transformer Bld 03																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished										69					CY		1863	CF	0
	Rubble's Weight (exclude steel)										5					CY				
	Truck's Capacity												1.4			TON/CY				
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Non Steel Drive	*Nielson Construction*	*Neilson Con.*	7	/TON													7	TON	49
	Disposal Cost Non Steel	On site disposal	02220 240 5550	7.6	/CY						8					CY		8	CY	61
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			284
	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						3					CY		3	CY	12
	Concrete's Vol. Demolished																1.3	4	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													4	CY	6
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi, rnd. trip	02315 490 0320	3.44	/CY													4	CY	14
	Disposal Costs	On site disposal	*02220 240 5550*	7.6	/CY													4	CY	30
	Subtotal																			62
	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																			346

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
	Steam Cleaner Bld 04																			
	Structure's Demolition Cost										25					CY		675	CF	0
	Structure's Vol. Demolished										5					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Non Steel Drive	Nielson Construction	Nelson Con.	7	/TON													7	TON	49
	Disposal Cost Non Steel	On site disposal	02220 240 5550	7.6	/CY						4					CY		4	CY	30
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			253
	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						5					CY		5	CY	20
	Concrete's Vol. Demolished																1.3	7	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													7	CY	10
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													7	CY	24
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													7	CY	53
	Subtotal																			107
	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																			360

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
	Transformer Storage Pad 05																			
	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 demolition	ConcreteDemo1	3.97	/CY						14					CY		14	CY	56
	Concrete's Vol. Demolished																1.3	18	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													18	CY	25
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													18	CY	62
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													18	CY	137
	Subtotal																			280
	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																			280

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 06																			
	Structure's Demolition Cost	300 H. P. (D8)	01590 200 4310	1047.28	/day															
	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																			
	Remove Substation																			
	Equipment 's Disposal Cost	300 H. P. (D8)	01590 200 4310	1047.28	/day									2		HR		0.3	Day	314
	Dismantling Cost	Mechanical equipment heavy	15055 300 3600	805	/ton							2			3	TON		6	TON	4830
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			5144
	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																			5144

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
	Rock Dust Silo 07																			
	Structure's Demolition Cost										112					CY		3024	CF	0
	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											32				TON				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			174
	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						14					CY		14	CY	56
	Concrete's Vol. Demolished																1.3	18	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													18	CY	25
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													18	CY	62
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													18	CY	137
	Subtotal																			280
	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																			454

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 Fan Bld 08																			
	Structure's Demolition Cost										525					CY		14175	CF	0
	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											64				TON				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			174
	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						45					CY		45	CY	179
	Concrete's Vol. Demolished																1.3	59	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													59	CY	82
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													59	CY	203
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													59	CY	448
	Subtotal																			912
	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																			1086

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
	Foreman Office Trailer 09																			
	Structure's Demolition Cost					50	20	10								CF		10000	CF	0
	Structure's Vol. Demolished										130					CY	0.35	130	CY	
	Rubble's Weight (exclude steel)												1.4			TON/CY		182	TOM	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	7	/TON													182	TOM	1274
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			1448
	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																			1448

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
	Warehouse Office Bld 10																			
	Structure's Demolition Cost										5496					CY		148392	CF	0
	Structure's Vol. Demolished										60					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY		84	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	7	/TON													84	TON	588
	Disposal Cost Non Steel																			
	Steel's Weight											96				TON		96	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			936
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Light Floor's																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						58					CY		58	CY	230
	Concrete's Vol. Demolished																1.3	75	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													75	CY	104
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.44	/CY													75	CY	258
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													75	CY	570
	Subtotal																			1162
	Heavy Wall's																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						41					CY		41	CY	163
	Concrete's Vol. Demolished																1.3	53	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													53	CY	74
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.44	/CY													53	CY	182
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													53	CY	403
	Subtotal																			822
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			2920

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
	Fresh Water Treatment Bld 11																			
	Structure's Demolition Cost										226					CY		6102	CF	0
	Structure's Vol. Demolished										15					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY		21	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	7	/TON													21	TON	147
	Disposal Cost Non Steel																			
	Steel's Weight											21				TON		21	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			321
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished										16					CY		16	CY	
	Loading Costs																			
	Transport Costs	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Disposal Costs	Nielson Construction	Neilson Con.	7	/TON							22				TON		22	TON	154
	Subtotal																			328
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						2.5					CY		2.5	CY	10
	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. md. tri	02315 490 0320	3.44	/CY													3	CY	10
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													3	CY	23
	Subtotal																			47
	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																			696

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
	Explosive Storage Bld 12																			
	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											4				TON				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									1		HR		0.1	Day	44
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			44
	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																			44

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
	Bathhouse 3 Trailers 13																			
	Structure's Demolition Cost					50	20	10							3	CF		30000	CF	0
	Structure's Vol. Demolished											389				CY	0.35			
	Rubble's Weight (exclude steel)												1.4			TON/CY		545	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Non Steel Drive	Nielson Construction	Nielson Con.	7	/TON													545	TON	3815
	Disposal Cost Non Steel																			
	Steel's Weight											545				TON		545	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			3989
	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																			3989

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 Old 14																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished										30					CY				
	Rubble's Weight (exclude steel)											42				TON		42	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Non Steel Drive	Nielson Construction	Nielson Con.	7	/TON													42	TON	294
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			468
	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						22					CY		22	CY	87
	Concrete's Vol. Demolished																1.3	29	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													29	CY	40
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													29	CY	100
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													29	CY	220
	Subtotal																			447
	Fill to Grade	Backfill structural 200 HP 300' Dirt	02315 120 4420	2.17	/CY						123					CY		123	CY	267
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			267
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			1182

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 New 15																			
	Structure's Demolition Cost										25					CY		675	CF	0
	Structure's Vol. Demolished										15					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY		21	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	7	/TON													21	TON	147
	Disposal Cost Non Steel																			
	Steel's Weight											32				TON		32	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			495
	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					CY		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. md. tri	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																			
	Footer's Demolition																			
	Demolition Cost																			
	Footer's Vol. Demolished	Backfill structural 200 HP 300' Dirt	02315 120 4420	2.17	/CY						70					CY		70	CY	152
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			152
	Total																			1049

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
	Bridge Quitchupah Creek 16																			
	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 demolition	ConcreteDemo1	3.97	/CY						50					CY		50	CY	199
	Concrete's Vol. Demolished																1.3	65	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													65	CY	90
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													65	CY	224
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													65	CY	494
	Subtotal																			1007
	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																			1007

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
	Sewage Pumping Station 17																			
	Structure's Demolition Cost										25					CY		675	CF	0
	Structure's Vol. Demolished										5					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	7	/TON													7	TON	49
	Disposal Cost Non Steel	On site disposal	02220 240 5550	7.6	/CY						6					CY		6	CY	46
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			269
	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						1					CY		1	CY	4
	Concrete's Vol. Demolished																1.3	1	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													1	CY	1
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													1	CY	3
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													1	CY	8
	Subtotal																			16
	Wall's Demolition																			
	Demolition Cost	Backfill structural 200 HP 300' Dirt	02315 120 4420	2.17	/CY						70					CY		70	CY	152
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			152
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			437

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
	Borehole Pump Facility 18																			
	Structure's Demolition Cost	Plug Well	AML3	5000	EA.															
	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	Plug Well	AML3	5000	EA.										3	EA		3	EA	15000
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			15000
	Footer's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						3.5					CY		3.5	CY	14
	Footer'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. md. tri	02315 490 0320	3.44	/CY													5	CY	17
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													5	CY	38
	Subtotal																			76
	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																			15076

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
	Power Line 19																			
	Structure's Demolition Cost	Electrical Demolition	16055 300 1870	14.9	CLF															
	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	Electrical Demolition	16055 300 1870	14.9	CLF	1.1									3	mile		174	CLF	2593
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			2593
	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																			2593

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
	Metal Storage Bld 20																			
	Structure's Demolition Cost										345					CY		9315	CF	0
	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											32				TON				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			174
	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						1					CY		1	CY	4
	Concrete's Vol. Demolished																1.3	1	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													1	CY	1
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													1	CY	3
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													1	CY	8
	Subtotal																			16
	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																			190

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
	Storage Tank Containment Area 21																			
	Structure's Demolition Cost										106					CY		2862	CF	0
	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											1				TON				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			174
	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						24					CY		24	CY	95
	Concrete's Vol. Demolished																1.3	31	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													31	CY	43
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													31	CY	107
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													31	CY	236
	Subtotal																			481
	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																			655

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 Tank 100000 Gallon 22																			
	Structure's Demolition Cost										490					CY		13230	CF	0
	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											32				TON		32	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			174
	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						23					CY		23	CY	91
	Concrete's Vol. Demolished																1.3	30	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													30	CY	42
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.44	/CY													30	CY	103
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													30	CY	228
	Subtotal																			464
	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																			638

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
	Stoker Oil Heater Enclosure 23																			
	Structure's Demolition Cost										56					CY		1512	CF	0
	Structure's Vol. Demolished										15					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY		21	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	7	/TON													21	TON	147
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			495
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished										15					CY				
	Loading Costs																			
	Transport Costs	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Disposal Costs	Nielson Construction	Neilson Con.	7	/TON													21	TON	147
	Subtotal																			321
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						0					CY		0	CY	0
	Concrete's Vol. Demolished																1.3	0	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													0	CY	0
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.44	/CY													0	CY	0
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													0	CY	0
	Subtotal																			0
	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																			816

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
	NPDES Outfalls 24																			
	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																			
	Footer's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						20					CY		20	CY	79
	Footer'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. md. tri	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
	Wall's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	3.97	/CY						9					CY		9	CY	36
	Wall's Vol. Demolished																1.3	12	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													12	CY	17
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													12	CY	41
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													12	CY	91
	Subtotal																			185
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			567

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
	Storage Trailers Three 25																			
	Structure's Demolition Cost					50	20	10							3	CY		30000	CF	0
	Structure's Vol. Demolished																0.35	389	CY	
	Rubble's Weight (exclude steel)												1.4			TON/CY		545	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01590 200 5300	435.96	/day									3		HR		0.4	Day	174
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	7	/TON													545	TON	3815
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			3989
	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																			3989

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
	Fence 26																			
	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																			
	Silt Fence Disposal Cost																			
	Silt Fence	Silt fence	02370 700 1100	1.05	LF	69										FT		69	FT	72
	Supply Yard Fence	Chain Link 9 ga	02820 420 1700	72.5	LF	575										FT		575	FT	41688
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			41760
	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																			41760

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
	Seal Portals 27																			
	Structure's Demolition Cost	Seal Portals	AML1	5200	EA.										4	EA		4	EA	20800
	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																			20800
	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																			20800

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
28	Crusher Screen Building 28																			
	Structure's Demolition Cost	Steel Bld, Large	02220 110 0012	0.2	/CF						33000					CF		33000	CF	6600
	Structure's Vol. Demolished																0.3	367	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	Truck dump 16 ton payload	01590 200 5300	435.96	/day									46		HR		5.8	Day	2529
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			9129
	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						55					CY		55	CY	218
	Concrete's Vol. Demolished																1.3	72	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													72	CY	100
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													72	CY	248
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													72	CY	547
	Subtotal																			1113
	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																			10242

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 System 29																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						1060					CF		1060	CF	212
	Structure's Vol. Demolished																0.3	12	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	Truck dump 16 ton payload	01590 200 5300	435.96	/day									2		HR		0.3	Day	131
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			343
	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																			343

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
	Radial Stacker 30																			
	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 demolition	ConcreteDemo1	3.97	/CY						46					CY		46	CY	183
	Concrete's Vol. Demolished																1.3	60	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													60	CY	83
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	02315 490 0320	3.44	/CY													60	CY	206
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													60	CY	456
	Subtotal																			928
	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																			928

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 Tank 31																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						17177					CF		17177	CF	3435
	Structure's Vol. Demolished																0.3	191	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	Truck dump 16 ton payload	01590 200 5300	435.96	/day									24		HR		3	Day	1308
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			4743
	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						3					CY		3	CY	12
	Concrete's Vol. Demolished																1.3	4	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													4	CY	6
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. trip	02315 490 0320	3.44	/CY													4	CY	14
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													4	CY	30
	Subtotal																			62
	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																			4805

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
	Rock Dust Bin 32																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						1600					CF		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	Truck dump 16 ton payload	01590 200 5300	435.96	/day									2		HR		0.3	Day	131
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			451
	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						3					CY		3	CY	12
	Concrete's Vol. Demolished																1.3	4	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													4	CY	6
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	02315 490 0320	3.44	/CY													4	CY	14
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													4	CY	30
	Subtotal																			62
	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																			513

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 33																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						29167					CF		29167	CF	5833
	Structure's Vol. Demolished																0.3	324	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	Truck dump 16 ton payload	01590 200 5300	435.96	/day									40		HR		5	Day	2180
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			8013
	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						44					CY		44	CY	175
	Concrete's Vol. Demolished																1.3	57	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													57	CY	79
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.44	/CY													57	CY	196
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													57	CY	433
	Subtotal																			883
	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																			8896

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 Stockpile Feeder 34																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						150					CF		150	CF	30
	Structure's Vol. Demolished																0.3	2	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	Truck dump 16 ton payload	01590 200 5300	435.96	/day									0.4		HR		0.1	Day	44
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			74
	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																			74

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
	Loadout 35																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						23660					CF		23660	CF	4732
	Structure's Vol. Demolished																0.3	263	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	Truck dump 18 ton payload	01590 200 5300	435.96	/day									33		HR		4.1	Day	1787
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			6519
	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																			6519

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
	Powerline 36																			
	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	Powerpole	Emery Deep 01	125	EA										32	EA		32	EA	4000
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			4000
	Equipment 's Disposal Cost																			
	Dismantling Cost	Electrical Demolition	16055 300 1870	14.9	CLF	36960										LF		370	CLF	5513
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			5513
	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																			9513

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
	Entrances 4th East 37																			
	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																			
	Portals																			
	Equipment 's Disposal Cost	Seal Portals	AML1	5200	EA.										3	EA		3	EA	15600
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			15600
	Shaft																			
	Equipment 's Disposal Cost	Seal Shaft	AML2	5000	EA.										1	EA		1	EA	5000
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			5000
	Borehole																			
	Equipment 's Disposal Cost	Plug Well	AML3	5000	EA.										1	EA		1	EA	5000
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			5000
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			25600

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
	Wind Fence 38																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						1300					CF		1300	CF	260
	Structure's Vol. Demolished																0.3	14	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	Truck dump 16 ton payload	01590 200 5300	435.96	/day									4		HR		0.5	Day	218
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			478
	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						26					CY		26	CY	103
	Concrete's Vol. Demolished																1.3	34	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													34	CY	47
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.44	/CY													34	CY	117
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													34	CY	258
	Subtotal																			525
	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																			1003

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
	Cattle Guard 39																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						96					CF		96	CF	19
	Structure's Vol. Demolished																0.3	1	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	Truck dump 16 ton payload	01590 200 5300	435.96	/day									4		HR		0.5	Day	218
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			237
	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						6					CY		6	CY	24
	Concrete's Vol. Demolished																1.3	8	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													8	CY	11
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.44	/CY													8	CY	28
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													8	CY	61
	Subtotal																			124
	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																			561

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
	Concrete Barriers 40																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF						96					CF		96	CF	19
	Structure's Vol. Demolished																0.3	1	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	Truck dump 16 ton payload	01590 200 5300	435.96	/day									1		HR		0.1	Day	44
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			63
	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						60					CY		60	CY	238
	Concrete's Vol. Demolished																1.3	78	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													78	CY	108
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.44	/CY													78	CY	268
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													78	CY	593
	Subtotal																			1207
	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																			1270

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
	Sampler Building 41																			
	Sampler Building					18	12	40								FT		8640	CF	
	Conveyor					60	2	15								FT		1800	CF	
	Conveyor					80	2	15								FT		2400	CF	
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.2	/CF											CF		12840	CF	2568
	Structure's Vol. Demolished																0.3	143	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	Truck dump 16 ton payload	01590 200 5300	435.96	/day									33		HR		4.1	Day	1787
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			4355
	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 demolition	ConcreteDemo1	3.97	/CY	18	12	1								FT		8	CY	32
	Concrete's Vol. Demolished																1.3	10	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.39	/CY													10	CY	14
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	02315 490 0320	3.44	/CY													10	CY	34
	Disposal Costs	On site disposal	02220 240 5550	7.6	/CY													10	CY	76
	Subtotal																			156
	Total																			4511

	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
Backfill and Grade Portal Area 01															151964
Coal Fines Removal 02															111793
Cover Coal Mine Waste 03															38143
Roadside Berms 04															6696
Dike Improvements 05															12984
Pond No One 06															76897
Pond No Two 07															12984
Pond No Three 08															1420
Pond No Four 09															15014
Pond No Five 10															6291
Pond No Six 11															37535
Pond No 1 Road 12															608
Pump No 1 Road 13															811
Tank Road 14															811
MineYardRoads15															7711
The 4th East Portal 16															361994
Total															843656

	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
Emery Deep Mine Backfilling and Grading Backfill and Grade Portal Area 01															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	52600	CY	702	CY/HR	74.9	HR	102800
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					74.9	HR	11565
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					74.9	HR	14104
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					74.9	HR	7939
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					74.9	HR	7594
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					74.9	HR	776
CLAB					40.5	1	40.5	$/HR					74.9	HR	3033
Foreman Average, Outside					55.45	1	55.45	$/HR					74.9	HR	4153
Subtotal															151964

	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
Emery Deep Mine Backfilling and Grading Coal Fines Removal 02															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	38700	CY	702	CY/HR	55.1	HR	75625
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					55.1	HR	8507
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					55.1	HR	10375
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					55.1	HR	5841
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					55.1	HR	5587
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					55.1	HR	571
CLAB					40.5	1	40.5	$/HR					55.1	HR	2232
Foreman Average, Outside					55.45	1	55.45	$/HR					55.1	HR	3055
Subtotal															111793

	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
Emery Deep Mine Backfilling and Grading Cover Coal Mine Waste 03															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	13200	CY	702	CY/HR	18.8	HR	25803
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					18.8	HR	2903
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					18.8	HR	3540
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					18.8	HR	1993
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					18.8	HR	1906
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					18.8	HR	195
CLAB					40.5	1	40.5	$/HR					18.8	HR	761
Foreman Average, Outside					55.45	1	55.45	$/HR					18.8	HR	1042
Subtotal															38143

	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
Emery Deep Mine Backfilling and Grading Roadside Berms 04															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	2300	CY	702	CY/HR	3.3	HR	4529
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					3.3	HR	510
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					3.3	HR	621
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					3.3	HR	350
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					3.3	HR	335
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					3.3	HR	34
CLAB					40.5	1	40.5	$/HR					3.3	HR	134
Foreman Average, Outside					55.45	1	55.45	$/HR					3.3	HR	183
Subtotal															6696

	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
Emery Deep Mine Backfilling and Grading Dike Improvements 05															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	4500	CY	702	CY/HR	6.4	HR	8784
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					6.4	HR	988
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					6.4	HR	1205
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					6.4	HR	678
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					6.4	HR	649
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					6.4	HR	66
CLAB					40.5	1	40.5	$/HR					6.4	HR	259
Foreman Average, Outside					55.45	1	55.45	$/HR					6.4	HR	355
Subtotal															12984

	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
Emery Deep Mine Backfilling and Grading Pond No One 06															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	26600	CY	702	CY/HR	37.9	HR	52018
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					37.9	HR	5852
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					37.9	HR	7137
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					37.9	HR	4017
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					37.9	HR	3843
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					37.9	HR	393
CLAB					40.5	1	40.5	$/HR					37.9	HR	1535
Foreman Average, Outside					55.45	1	55.45	$/HR					37.9	HR	2102
Subtotal															76897

	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
Emery Deep Mine Backfilling and Grading Pond No Two 07															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	4500	CY	702	CY/HR	6.4	HR	8784
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					6.4	HR	988
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					6.4	HR	1205
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					6.4	HR	678
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					6.4	HR	649
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					6.4	HR	66
CLAB					40.5	1	40.5	$/HR					6.4	HR	259
Foreman Average, Outside					55.45	1	55.45	$/HR					6.4	HR	355
Subtotal															12984

	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
Emery Deep Mine Backfilling and Grading Pond No Three 08															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	500	CY	702	CY/HR	0.7	HR	961
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					0.7	HR	108
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					0.7	HR	132
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					0.7	HR	74
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					0.7	HR	71
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					0.7	HR	7
CLAB					40.5	1	40.5	$/HR					0.7	HR	28
Foreman Average, Outside					55.45	1	55.45	$/HR					0.7	HR	39
Subtotal															1420

	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/Dls.	Units	Cost
Emery Deep Mine Backfilling and Grading Pond No Four 09															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	5200	CY	702	CY/HR	7.4	HR	10157
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					7.4	HR	1143
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					7.4	HR	1393
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					7.4	HR	784
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					7.4	HR	750
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					7.4	HR	77
CLAB					40.5	1	40.5	$/HR					7.4	HR	300
Foreman Average, Outside					55.45	1	55.45	$/HR					7.4	HR	410
Subtotal															15014

	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
Emery Deep Mine Backfilling and Grading Pond No Five 10															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	2200	CY	702	CY/HR	3.1	HR	4255
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					3.1	HR	479
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					3.1	HR	584
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					3.1	HR	329
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					3.1	HR	314
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					3.1	HR	32
CLAB					40.5	1	40.5	$/HR					3.1	HR	126
Foreman Average, Outside					55.45	1	55.45	$/HR					3.1	HR	172
Subtotal															6291

	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
Emery Deep Mine Backfilling and Grading Pond No Six 11															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	13000	CY	702	CY/HR	18.5	HR	25391
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					18.5	HR	2856
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					18.5	HR	3484
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					18.5	HR	1961
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					18.5	HR	1876
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					18.5	HR	192
CLAB					40.5	1	40.5	$/HR					18.5	HR	749
Foreman Average, Outside					55.45	1	55.45	$/HR					18.5	HR	1026
Subtotal															37535

	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
Emery Deep Mine Backfilling and Grading Pond No 1 Road 12															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	200	CY	702	CY/HR	0.3	HR	412
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					0.3	HR	46
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					0.3	HR	56
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					0.3	HR	32
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					0.3	HR	30
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					0.3	HR	3
CLAB					40.5	1	40.5	$/HR					0.3	HR	12
Foreman Average, Outside					55.45	1	55.45	$/HR					0.3	HR	17
Subtotal															608

	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
Emery Deep Mine Backfilling and Grading Pump No 1 Road 13															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	300	CY	702	CY/HR	0.4	HR	549
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					0.4	HR	62
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					0.4	HR	75
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					0.4	HR	42
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					0.4	HR	41
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					0.4	HR	4
CLAB					40.5	1	40.5	$/HR					0.4	HR	16
Foreman Average, Outside					55.45	1	55.45	$/HR					0.4	HR	22
Subtotal															811

	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
Emery Deep Mine Backfilling and Grading Tank Road 14															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	300	CY	702	CY/HR	0.4	HR	549
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					0.4	HR	62
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					0.4	HR	75
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					0.4	HR	42
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					0.4	HR	41
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					0.4	HR	4
CLAB					40.5	1	40.5	$/HR					0.4	HR	16
Foreman Average, Outside					55.45	1	55.45	$/HR					0.4	HR	22
Subtotal															811

	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
Emery Deep Mine Backfilling and Grading MineYardRoads15															
627F EROPS (9-40) (3Q02) 2000	15200	75.5	0.1	50.7	228.75	6	1372.5	$/HR	2700	CY	702	CY/HR	3.8	HR	5216
D7R Semi-U (9-43) (3Q02) 2001	10335	35.55	0.1	50.7	154.4	1	154.4	$/HR					3.8	HR	587
D8R Series II Semi-U EROPS (9-43) (3Q02)	13620	47.7	0.1	50.7	188.3	1	188.3	$/HR					3.8	HR	716
12H EROPS (9-1)(3Q03)	5205	20.7	0.1	50.7	106	1	106	$/HR					3.8	HR	403
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					3.8	HR	385
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					3.8	HR	39
CLAB					40.5	1	40.5	$/HR					3.8	HR	154
Foreman Average, Outside					55.45	1	55.45	$/HR					3.8	HR	211
Subtotal															7711

	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
The 4th East Portal 16															
Grade berm into surrounding area															
D6R (9-43) (3Q02)	6990	26.54	0.1	50.7	123.58	1	123.58	$/HR	3721	CY	189	CY/HR	19.7	HR	2435
Partial Backfilling of Portal Boxcut															
D8R 2001Semi-U EROPS (9-43) (3Q02)	13055	46	0.1	50.7	182.89	1	182.89	$/HR	34277	CY	287	CY/HR	119.4	HR	21837
Reclamation of In Place Topsoil															
D6R (9-43) (3Q02)	6990	26.54	0.1	50.7	123.58	1	123.58	$/HR	12100	CY	1455	CY/HR	8.3	HR	1026
Multi-Shank Ripper 190-259 P (9-49) (3Q02)	1835	5.7	0.1		17.74	1	17.74	$/HR					8.3	HR	147
Materail Stock Pile															
988F Series II 2000 EROPS (9-38) (3Q03)	11695	54.65	0.1	50.7	183.91	1	183.91	$/HR	113711	CY	349	CY/HR	325.8	HR	59918
769D (20-1) (2Q03)	10635	40.55	0.1	40.3	151.37	2	302.74	$/HR					325.8	HR	98633
Topsoil															
988F Series II 2000 EROPS (9-38) (3Q03)	11695	54.65	0.1	50.7	183.91	1	183.91	$/HR	100911	CY	465	CY/HR	217	HR	39908
6X4 40,000lbs 8-10 CY (20-1) (2Q03)	2320	18.35	0.1	40.3	74.99	3	224.97	$/HR					217	HR	48818
Pocking															
436B (4WD) Ext. 2000 EROPS (9-27) (3Q03)	3395	15.15	0.1	50.7	88.58	1	88.58	$/HR	8873	CY	192	CY/HR	46.2	HR	4092
Support Personel and Equipment															
Foreman Average, Outside					55.45	1	55.45	$/HR					353	HR	19574
CLAB					40.5	2	81	$/HR					353	HR	28593
Pickup Truck Crew 4x4 1 ton (20-7) (2Q03)	875	4.45	0.1	0	10.36	1	10.36	$/HR					353	HR	3657
5,000 gal H2O truck Diesel (20-6) (2Q03)	4855	27.95	0.1	40.3	101.39	1	101.39	$/HR					353	HR	35791
Subtotal															361994

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																			
	Main Facilities 01																			395966
	The 4th East Portals 02																			114285
	Total																			510251

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
	Main Facilities 01																			
	Vegeation																			
	Spread Topsoil	Backfill structural 200 HP 300' Dirt	02315 120 4420	2.07	/CY						43300					CY		43300	CY	89631
	Till Soil	75 HP Dozerw/scarifiers	02920 340 3100	3.83	MSF						53.7					AC		2339	MSF	8958
	Seeding	Hydro seeding with mulch and fertilizer	02920 510 1700	26.5	MSF						53.7					AC		2339	MSF	61984
	Mulch	Hay, 1" deep, power mulcher large	02910 500 0350	51	MSF						53.7					AC		2339	MSF	119289
	Fertilizer	Water Soluable, hydro spread	02935 300 0180	3.86	MSF						53.7					AC		2339	MSF	8561
	Erosion Control	Place Hay Bales	02370 550 1200	405	/TON							70				Ton		70	TON	28350
	Subtotal																			316773
	Reseeding																			
	25% of Vegetation Cost																			79193
	Subtotal																			79193
	Total																			395966

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
	The 4th East Portals 02																			
	Vegeation																			
	Seeding	Hydro seeding with mulch and fertilizer	02920 510 1700	26.5	MSF						16					AC		697	MSF	18471
	Mulch	Hay, 1" deep, power mulcher large	02910 500 0350	51	MSF						16					AC		697	MSF	35547
	Fertilizer	Water Soluable, hydro spread	02935 300 0180	3.66	MSF						16					AC		697	MSF	2551
	Erosion Control	Place Hay Bales	02370 550 1200	405	/TON							30				Ton		30	TON	12150
		Revegetation mat, webbed	02370 550 0120	5.8	SY	300	14									FT		467	SY	2709
	Subtotal																			71428
	Reseeding																			
	25% of Vegetation Cost																			42857
	Subtotal																			42857
	Total																			114285