Appendix 5-A

Existing Structures

File in:
☐ Confidential
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☒ Expandable
Refer to Record No 0066 Date 5/15/07
In C/ 025/025 , 2007 , Incoming
For additional information

EXISTING STRUCTURES

Table 5A-1 lists each structure and construction dates. Reclamation is expected in 2012.

Table 5A-1 Existing Structures

Existing Structure	Construction Dates Starting	Completion	Photo #
Sales/Receiving/Scale Office/Caretaker Dwelling	6/84	10/87	1
Fuel Tanks	10/83	6/84	2
Truck Loading Facility	9/82	12/07~~4/83~~	3
Oil Slack Loading Facility	4/83	7/83	3
Storage & Stacking Facility	6/80	4/84	3
Conveyor Structures	3/80	6/80	3
Machine Shop	11/89	12/89	5
Shop	10/83	9/84	4
Coal Processing Facility	4/80	12/85	6
Lump Coal Facility	10/83	12/85	6
Non-Coal Storage Yard	3/80	9/84	7
WHR Tank Seam Fan	7/4/01	12/31/05	10
Powder Magazine	9/82	containerized	14
Water Tanks & System	8/82	11/82	13
Lump Coal Storage Pad	8/92	10/92	15
Equipment Wash Pad	8/92	10/92	16
Shower House	5/93	7/94	17
Antifreeze Storage Tank	12/93	1/94	18
WHR Blind Canyon Seam Fan	7/4/01	12/31/05	19
Wild Horse Ridge Conveyor Belt	7/4/01	12/31/05	9
WHR Substation	7/4/01	12/31/05	12
WHR Fuel Tanks	7/4/01	12/31/05	20
WHR Coal Storage Bin	7/4/01	12/31/05	
Power Lines	7/4/01	12/31/05	
Water Lines	7/4/01	12/31/05	
Fuel Containment Enclosure	7/4/01	12/31/05	
Mine Portals	-	-	-

the slope with the only access by way of the disturbed drainage ditch leading directly to the sediment pond. The pond is designed to contain any spillage which could foreseeably occur. The area will be posted " No Smoking " and fire extinguishers are in place. All MSHA safety standards will be adhered to. See Photo #2.

3. Truck Loading Facility. The truck loadout is a conveyor system designed to load tractor-trailer trucks from any of the storage pile areas. ~~It is electrically manipulated so as to minimize spillage~~. The area is cleaned of spilled coal as needed. All runoff is routed to the Sediment Pond "A". See Photo #3. It includes a retaining wall, an automated sampling system, and an automated truck positioning and loading system.

4. Oil/Dry Slack Loading Facility. The slack loadout is designed to handle oiled and non-oiled stoker coal, primarily for non-commercial clients. It includes a 20,000 ton storage bin with an electrically operated auger to load small tonnages. The bin is fed by a hopper and conveyor, which is loaded with a front end loader. See photo #3.

5. Coal Storage Area and Stacking Facility. The coal storage yard is equipped with a system of conveyors wherein coal can be segregated according to size. This storage is of a short-term nature; the piles are constantly being consumed and replenished. The area also contains two 6,000 gal oil storage tanks, which are used to store oil for stoker coal. All run-off is controlled, and passes through the Sediment Pond "A". See Photo #3.

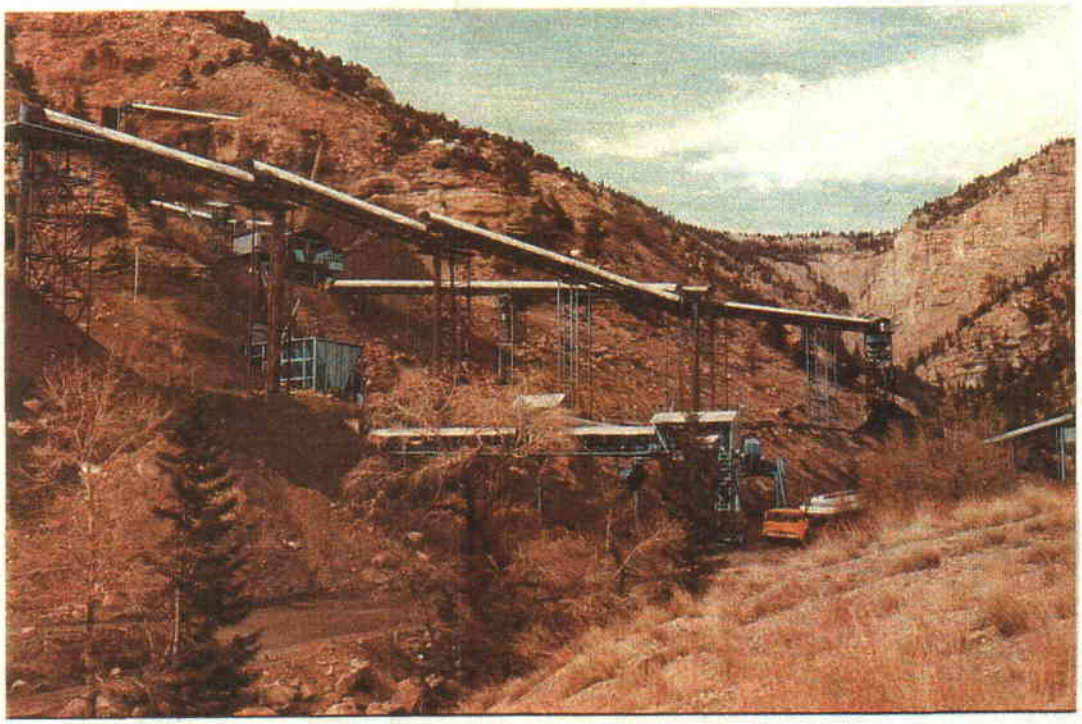


Photo #3 Truck Loading Facility, Oil Slack Loading Facility, Storage & Stacking Facility
To be updated after loadout-expansion

Photo #4 Shop

Appendix 5-F

Mine Roads

Appendix 5-F Attachments

Road Use Agreements

AGREEMENT

This agreement made and entered into this 9th day of August 1983, by and between Emery County, a body corporate and politic (County), and Co-Op Mining Company, a Utah general partnership (Co-Op),

WHEREAS, there is an existing road in Emery County known as Bear Creek Road, and

WHEREAS, Co-Op requires extensive use of said road, and

WHEREAS, due to said extensive use, said road should be relocated for the health, safety and welfare of the citizens of County as well as others who may have occasion to use said road,

NOW, THEREFORE, be it agreed as follows:

1. The parties hereto agree and acknowledge that the southern 0.65 miles of the road known as Bear Creek Road is a County road. Said County road runs from State Road 31 in a northerly direction for approximately 0.65 miles to a presently existing gate. Thereafter the road is a private road.

2. That Co-Op will relocate the Bear Creek Road according to the plans and specifications prepared by the Emery County Engineer and described on the document entitled Bear Canyon County Road Relocation dated October 12, 1982.

3. Co-Op will relocate the Road according to the plans and specifications referred to above at their expense. Co-Op will reimburse County for engineering costs incurred by County concerning the preparation of said plans and specifications and site inspections up to One Thousand ($1,000.00) Dollars.

4. Co-Op will indemnify and defend County for any damage caused, or loss incurred to or claim made by any public or private individual, firm, group, association, partnership or corporation as a result of the construction conducted to relocate Bear Creek Road. Said indemnification will continue until such time as County approves the completed roadway and accepts the construction thereof.

5. Co-Op acknowledges and accepts the easements of North Emery Water Users and Huntington City which exist in, along and across the relocate Bear Creek Road. Said easements are in existence on the ground. Co-Op's acknowledgment thereof herein recognizes and preserves said easements.

6. Co-Op agrees to encase water lines of North Emery Water Users and Huntington City in nestable corrugated pipe pursuant to plans and specifications prepared by the Emery County Engineer.

7. Co-Op agrees to allow access to other property served by the relocated Bear Creek Road. Said access shall be allowed to the owner of the property, their successor in interest or any other individual, firm, group, association, partnership or corporation who requires access due to their association with the owner or because the owner has granted permission to the individual, firm, group, association, partnership or corporation to go upon his property. Co-Op will not withhold access due to the type of activity which the then owner or his agents, employees or invitees intend or in fact conduct.

8. Co-Op will provide a completion and performance bond to Emery County upon the execution hereof in the amount of Twenty-Five Thousand ($25,000.00) Dollars which will remain in force and effect for twelve (12) months after the date said road is accepted by County as indicated in paragraph 4 above.

9. Co-Op will provide liability insurance in an amount not less than Five Hundred Thousand ($500,000.00) Dollars to be in force during the construction of said road. Said policy will name County as an insured.

10. Co-Op agrees to complete said road in a timely manner not to exceed eighteen (18) months from the date of this agreement. County may make demand upon the bonding company under the bond provided pursuant to paragraph 8 above and secure completion of the relocation in the event construction is not completed within the agreed upon eighteen (18) months.

11. It is further understood that any additional improvements of the relocated Bear Creek Road will be at the expense of all primary users.

12. The Co-Op agrees to reclaim that portion of the old Bear Creek Road according to the specifications and requirements of the Bureau of Land Manager (BLM).

13. That the Co-Op agrees to provide Emery County with the necessary easement agreements with the Utah Department of Transportation.

14. Co-Op acknowleges and agrees to comply with standard number 6.3.8 "Protection Zone" of the Utah State Health Drinking Water Standards as it applies to supplies of drinking water in Bear Canyon.

15. County agrees to inspect the relocated Bear Creek Road within ten (10) days after notification by Co-Op of the completion thereof. County must within five (5) working days of said inspection accept the road or notify Co-Op of any deficiencies which must be then corrected by Co-Op within the time period outlined in paragraph 10 above. Should County fail to notify Co-Op of any deficiencies within five (5) working days, the road is deemed accepted by County and the twelve (12) month period indicated in pargaraph 8 above begins to run from the sixth (6th) day after inspection.

IN WITNESS WHEREOF, this agreement is executed the day and year above first written, at Castle Dale, Utah, pursuant to a resolution of the Emery County Board of Commissioners at a regularly scheduled meeting of the Board.

EMERY COUNTY, a body politic and corporate,

ATTEST

County Clerk

By Rue P. Ware
Chairman of the Emery County Board of Commissioners

IN WITNESS WHEREOF this agreement is executed at Huntington, Utah.
DATED this 3rd day of August, 1983.

CO-OP MINING COMPANY, a Utah general partnership

By
a General Partner

Agreement

This agreement made and entered into this 15 day of May 2007, by and between C.O.P. Development (C.O.P.) and C.W. Mining Company, a Utah Corporation (Co-Op),

WHEREAS, there is an existing road in emery county known as Bear Canyon Road, and

WHEREAS, Co-Op requires extensive use of said road, and

WHEREAS, C.O.P is the owner of the private portions of the road,

NOW, THEREFORE, be it agreed as follows:

1. The parties hereto agree and acknowledge that the southern 0.65 Miles Of the road known as Bear Canyon Road is a county road. Said County road runs from State Road 31 in a northerly direction for approximately 0.65 Miles to a presently existing gate. Thereafter the road is a private road owned by C.O.P.
2. Co-Op will indemnify and defend C.O.P for any damage caused, or loss incurred to or claim made by any public or private individual, firm, group, association, partnership or corporation as a result of any mining related activities conducted on the private road.
3. Co-Op agrees to allow access to other property served by Bear Canyon Road. Said access shall be allowed to the owner of the property, their successor in interest or any other individual, firm, group, association, partnership or corporation who requires access due to their association with the owner or because the owner has granted permission to the individual, firm, group, association, partnership or corporation to go upon his property. Co-Op will not withhold access due to the type of activity which the then owner or his agents, employees or invitees intend to or in fact conduct.
4. It is further understood that any additional improvements of the Bear Canyon Road will be at the expense of all primary users.
5. Co-Op agrees to reclaim the private Bear Creek Road according to the specifications outlined below.
   a) Co-Op will completely reclaim all portions of the road except those areas required for access to the hunting cabin.
   b) Co-Op will leave the road access to the hunting cabin at least 20 feet wide and at a slope not greater then 20%.
   c) Co-Op agrees to leave all upgrades to the hunting cabin access road in place. These upgrades include, but are not limited to road base, asphalt, concrete, and drainage controls.
   d) C.O.P reserves the right to require Co-Op to leave any additional portions or all portions of Bear Canyon Road intact post-mining at C.O.P's discretion.

IN WITNESS WHEREOF, this agreement is executed the day and year above.

C.O.P Development

By _____
Officer C.O.P. Development

IN WITNESS WHEREOF this agreement is executed at Huntington, Utah. DATED this 15 day of May, 2007

CW Mining Company

By _____
Officer C.W. Mine

Appendix 5-I

Cut and Fill Calculations

APPENDIX 5Q

LOAD-OUT EXPANSION

The construction of the load-out expansion will take place in eight steps. The steps are

1. Remove old culverts
2. Earthwork
3. Install retaining walls next to the coal pad.
4. Install new culverts
5. Install concrete loading pads
6. Install Road
7. Extend the belts
8. Install Sampling Station.

Figure 1 shows a plan view of the area. Below is a detailed description of each of the steps. The construction may not follow the steps exactly. Some steps may be performed concurrently or out of order depending on time restrictions or the need to keep the load-out operational.

Removal of old culverts

In this step a Kamatsu Track-hoe will be used to remove culverts C-4D, and C-5D. The trenches created will then be filled with road-base and ditch D-3D will be extended across the old location of C-5D forming a dirt water bar across the shop access road.

Earth work

This will start with 687 cu. yd. of material, mostly substitute topsoil, being cut from the side of the coal storage pad and hauled to TS-7 to be used in the reclamation process. Ditch D-3D will be moved up against the new pad cut.

Install retaining walls

Two retaining walls will be constructed from pre-cast. The first one will be located adjacent to belt 1 and belt 3 loading points. The second one will be locate adjacent to the road just north of the slack loading point. Details of the retaining walls are shown in figures 2 and 3.

Install new culverts

Trenches for the new culverts will be dug with a Track-hoe The culverts will then be placed in the trenches and C-4D will be backfilled. On C-5D five pre-fabricated collection boxes will be installed to allow road drainage to enter the culvert. Ditch D-5D will be removed during this step and flow will be directed into Ditch D-3D.

Install concert loading pad

Three concrete pads 84' long by 12' wide be built under each of the loading hoppers to act as wear strips for the semis to stop on. The pad will start 22' in front of the loading point and extend 62' behind it. The pads will be 12" thick and will have two layers of rebar at 18" o.c. both directions. These pads will not need to be reclaimed since the will be covered by fill during reclamation.

Install road

4" of asphalt will be laid over the areas of the old and new culverts, and over the new road areas on both the right and left side of the existing road. 1 1/2" of super pave will then be laid over the entire load-out area. The road will be 75' wide creating three 20' wide lanes and one 15' wide lane. The two 20' lanes on the west side will be used for loading lanes and then will merge into 1 outlet lane. The third 20' lane will be used as an entrance lane for the trucks. The 15' lane will be and the east side and will be used for mine traffic. The 15' and 20' lanes on the east side start as one lane and then split as the enter the load-out area. Figure 1 shows a plan view of the roads. Ditch D-3D will be removed during this step.

Extend Belts

The current load-out has five conveyor belts coming out of the pad. The first three belts load

bug dust for power plants, the fourth belt is not being used and the fifth belts loads oiled slack for residential use. The second belt has a cross-over belt that connects it to the first belts loading point.

Construction will begin with the removal of the cross-over belt between the first and second belt and with the removal of the fourth belt that is not being used. Nothing will be done with the fifth (oil slack) belt. The first second and third belts will be extended 2', 3', and 8' respectively. Figure 4 shows a typical cross-section. The second belt will load in the most western lane (lane 1) and the first and third belts will load in lane 2 (see figure 1).

Install sampling station

A small crusher will be placed on the coal storage pad above the location of the old fourth belt (removed). A drop tube will come off of the crusher with a splitter in it. One side will go down into a sampling bag and the other side will go into a waste pile. A small concrete pad will be built under the waste pile. Coal will be carried to the crusher by hand in buckets or with a bobcat.

Figure 1

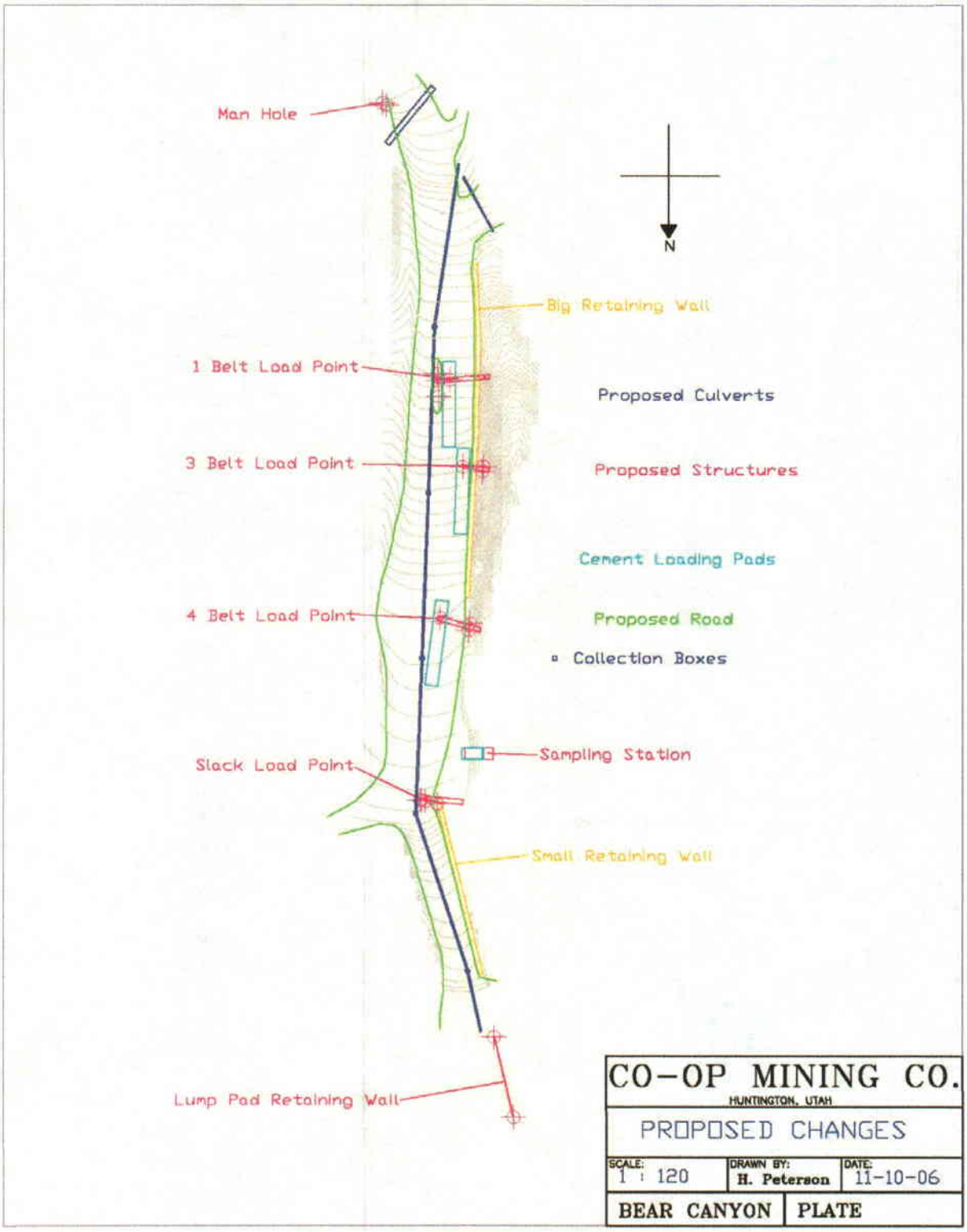
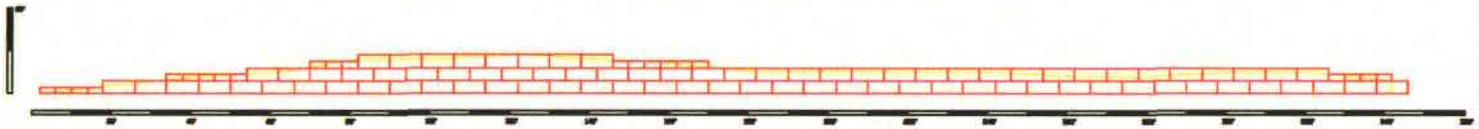

Man Hole
N
Big Retaining Wall
1 Belt Load Point
Proposed Culverts
3 Belt Load Point
Proposed Structures
Cement Loading Pads
4 Belt Load Point
Proposed Road
Collection Boxes
Sampling Station
Slack Load Point
Small Retaining Wall
Lump Pad Retaining Wall
CO-OP MINING CO.
HUNTINGTON, UTAH
PROPOSED CHANGES
SCALE: 1 : 120
DRAWN BY: H. Peterson
DATE: 11-10-06
BEAR CANYON
PLATE

Figure 2



Big Blocks are 3'x8' and 44" deep (Qty 83)
Small Blocks are 1.5'x4' and 44" deep (Qty 22)

CO-OP MINING CO. HUNTINGTON, UTAH		
BIG RETAINING WALL		
SCALE:	DRAWN BY: H. Peterson	DATE: 10-31-06
BEAR CANYON	PLATE	

05/02/07

5Q-7

Figure 3

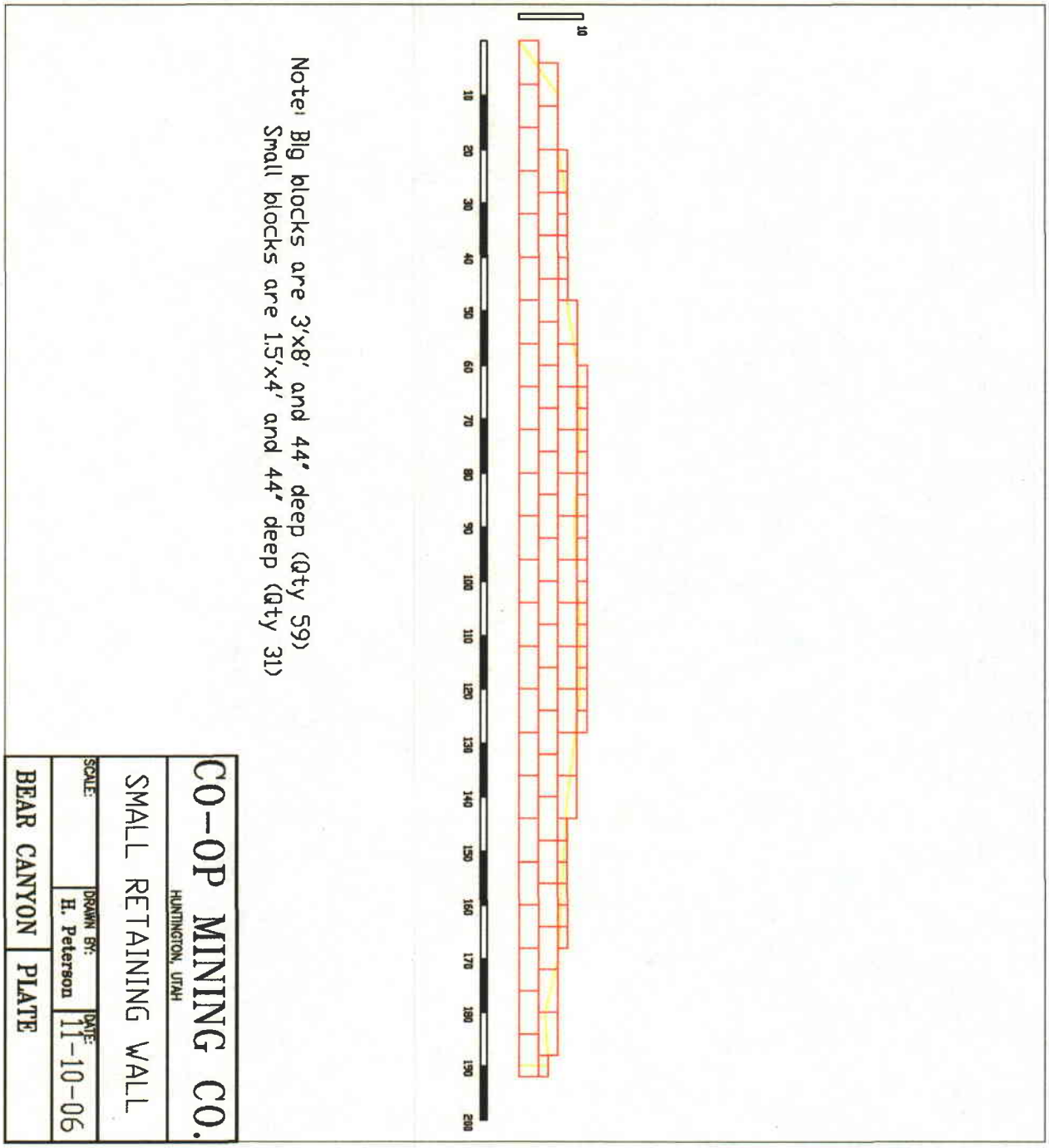
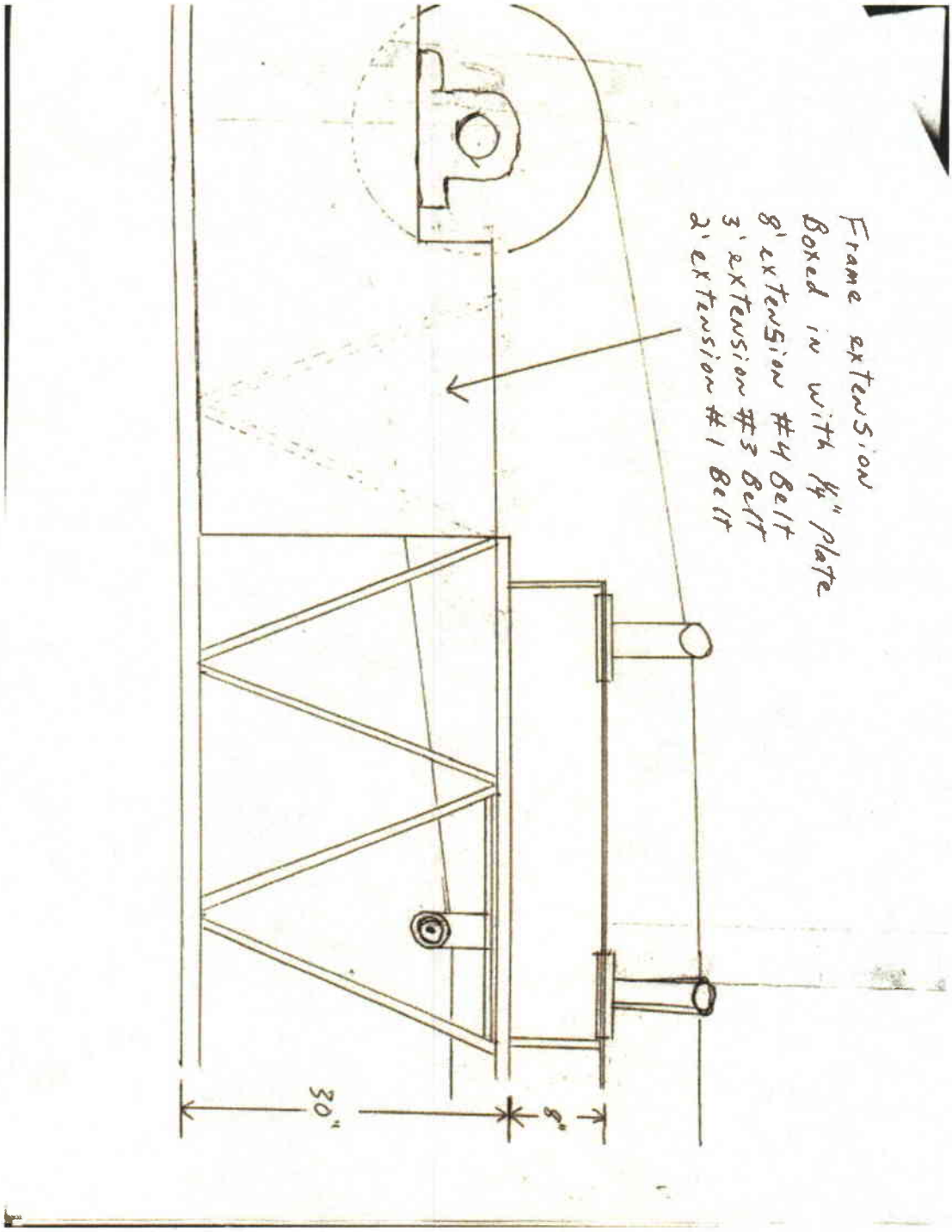

10
10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200
Note: Big blocks are 3'x8' and 44" deep (Qty 59)
Small blocks are 1.5'x4' and 44" deep (Qty 31)
CO-OP MINING CO.
HUNTINGTON, UTAH
SMALL RETAINING WALL
SCALE:
DRAWN BY:
H. Peterson
DATE:
11-10-06
BEAR CANYON
PLATE

Figure 4


Frame extension
Boxed in with ¼" plate
8' extension #4 Belt
3' extension #3 Belt
2' extension #1 Belt
30"
8"

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Appendix 8-A

DOGM Reclamation Calculations

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
	Scale House 01																			20190
	Scalehouse Pavement 02																			9293
	Shower House 03																			32194
	Shop 04																			16731
	Machine Shop 05																			4519
	WHR Shop 06																			3660
	Tipple 07																			20368
	Substation 08																			16688
	Coal Storage Bin 09																			9597
	Lump Coal 10																			7470
	Coal Recovery Bin 11																			168
	Slack Bin 12																			0
	WHR Surge Bin 13																			13397
	Ditch D 8D 14																			274
	Lump Coal Storage Pad 15																			2529
	Equipment Wash Pad 16																			526
	Transformer Pad Shop 17																			61
	Water Tanks 18																			1733
	Fuel Tanks 19																			2699
	Fuel Lines 20																			3560
	Fans 21																			4696
	Conveyor 22																			87273
	Bld Tank Seam 23																			323
	Septic Tanks 24																			324
	Culverts 25																			17918
	Watchman Trailer 26																			183
	Cap and Powder Mag 27																			134
	Conveyor Tunnel 28																			7168
	Plug Well 29																			5000
	Seal Portals 30																			72800
	Rip Rap 31																			371490
	Power Lines and Poles 32																			5983
	Channel Restoration No33																			0
	Portals AM02A No 34																			20800
	Culvert Removal No 35																			742
	RipRap No 36																			0
	Hillfiker Retaining Wall 35																			4696
	Total																			765187

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
	Scale House 01																			
	Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.3	/CF	34	83	16								FT		45152	CF	13546
	Structure's Vol. Demolished																0.3	502	CY	
	Rubble's Weight (exclude steel)												1.35			TON/CY		678	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON													678	TON	4746
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			18292
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	234	2	0.67								FT		12	CY	118
	Concrete's Vol. Demolished																1.3	16	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													16	CY	24
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													16	CY	61
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													16	CY	132
	Subtotal																			335
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	234	4	0.67								FT		23	CY	226
	Concrete's Vol. Demolished																1.3	30	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													30	CY	45
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													30	CY	114
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													30	CY	248
	Subtotal																			633
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	83	34	0.33								FT		34	CY	334
	Concrete's Vol. Demolished																1.3	44	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													44	CY	66
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													44	CY	167
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													44	CY	363
	Subtotal																			930
	Total																			20190

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
	Scalehouse Pavement 02																			
	Structure's Demolition Cost	Pavement removal (asphalt) 3 inch	02 41 13 15 5010	4.35	/SY					1450						SY		1450	SY	6308
	Structure's Vol. Demolished							0.083								YD	1.3	156	CY	
	Rubble's Weight (exclude steel)												2			ton/CY		312	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	435.96	/day									1		DAY		1	DAY	436
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Trhv	$45.65	HR									8		HR		8	HR	365
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON													312	TON	2184
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			9293
	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																			9293

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
	Shower House 03																			
	Structure's Demolition Cost																			
	Structure's Vol.	Mixed Materials Bld. Large	02 41 16 13 0100	0.3	/CF	92	50	8								FT		36800	CF	11040
	Structure's Vol.	Masonary Bld. Large	02 41 16 13 0080	0.3	/CF	92	50	8								FT		36800	CF	11040
	Structure's Vol. Demolished																0.3	818	CY	
	Rubble's Weight (exclude steel)												1.35			TON/CY		1104	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON													1104	TON	7728
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			29808
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	284	2	0.67								FT		14	CY	137
	Concrete's Vol. Demolished																1.3	18	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													18	CY	27
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													18	CY	68
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													18	CY	149
	Subtotal																			381
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	319	2	0.67								FT		16	CY	157
	Concrete's Vol. Demolished																1.3	21	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													21	CY	32
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													21	CY	80
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													21	CY	173
	Subtotal																			442
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	92	50	0.33								FT		56	CY	550
	Concrete's Vol. Demolished																1.3	73	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													73	CY	110
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													73	CY	277
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													73	CY	602
	Subtotal																			1539
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	12	5.5	0.33								FT		1	CY	10
	Concrete's Vol. Demolished																1.3	1	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													1	CY	2
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													1	CY	4
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													1	CY	8
	Subtotal																			24
	Total																			32194

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Shop 04																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	40	93	14								FT		52080	CF	14582
	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																			14582
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	198	4	0.67								FT		20	CY	196
	Concrete's Vol. Demolished																1.3	26	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													26	CY	39
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													26	CY	99
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													26	CY	215
	Subtotal																			549
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	266	2	0.67								FT		13	CY	128
	Concrete's Vol. Demolished																1.3	17	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													17	CY	26
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													17	CY	64
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													17	CY	140
	Subtotal																			358
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	40	93	0.33								FT		45	CY	442
	Concrete's Vol. Demolished																1.3	59	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													59	CY	89
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													59	CY	224
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													59	CY	487
	Subtotal																			1242
	Total																			16731

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
	Machine Shop 05																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	30	45	10								FT		13500	CF	3780
	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																			3780
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	135	1	0.67								FT		3	CY	29
	Concrete's Vol. Demolished																1.3	4	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													4	CY	6
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													4	CY	15
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													4	CY	33
	Subtotal																			83
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	150	2	0.67								FT		7	CY	69
	Concrete's Vol. Demolished																1.3	9	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													9	CY	14
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													9	CY	34
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													9	CY	74
	Subtotal																			191
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	30	45	0.33								FT		17	CY	167
	Concrete's Vol. Demolished																1.3	22	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													22	CY	33
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													22	CY	83
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													22	CY	182
	Subtotal																			465
	Total																			4519

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
	WHR Shop 06																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	20	40	14								FT		11200	CF	3136
	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																			3136
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	120	1	0.67								FT		3	CY	29
	Concrete's Vol. Demolished																1.3	4	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													4	CY	6
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													4	CY	15
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													4	CY	33
	Subtotal																			83
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	120	2	0.67								FT		6	CY	59
	Concrete's Vol. Demolished																1.3	8	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													8	CY	12
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													8	CY	30
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													8	CY	66
	Subtotal																			167
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	20	40	0.33								FT		10	CY	98
	Concrete's Vol. Demolished																1.3	13	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													13	CY	20
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													13	CY	49
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													13	CY	107
	Subtotal																			274
	Total																			3660

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 07																			
	Structure's Demolition Cost																			
	Structure's Vol.	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	27	10	25								FT		6750	CF	1890
	Structure's Vol.	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	27	20	17								FT		9180	CF	2570
	Structure's Vol.	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	27	10	8								FT		2160	CF	605
	Structure's Vol.	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	20	30	51								FT		30600	CF	8568
	Structure's Vol.	Mixed Materials Bld. Large	02 41 16 13 0100	0.3	/CF	12	20	10								FT		2400	CF	720
	Structure's Vol. Demolished																0.3	568	CY	
	Rubble's Weight (exclude steel)												1.35			TON/CY		767	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON													767	TON	5369
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			19722
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	2	2	1.5							11	FT		2	CY	20
	Concrete's Vol. Demolished																1.3	3	CT	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													3	CT	5
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													3	CT	11
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													3	CT	25
	Subtotal																			61
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	3	3	2							4	FT		3	CY	29
	Concrete's Vol. Demolished																1.3	4	CT	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													4	CT	6
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													4	CT	15
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													4	CT	33
	Subtotal																			83
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	27	40	0.29							1	FT		12	CY	118
	Concrete's Vol. Demolished																1.3	16	CT	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													16	CT	24
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													16	CT	61
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													16	CT	132
	Subtotal																			335
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	20	30	0.29							1	FT		6	CY	59
	Concrete's Vol. Demolished																1.3	8	CT	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													8	CT	12
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													8	CT	30
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													8	CT	66
	Subtotal																			167
	Total																			20368

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
	Substation 08																			
	Structure's Demolition Cost																			
		Torch Cutting Steel 1" plate	02 41 19 27 0020	1.21	/LF	26.6										LF		27	LF	33
		Torch Cutting Steel 1" bar	02 41 19 27 0040	1.71	/EA									0.77	1	Day		0.8	DAY	1
		Truck Mounted Crane 25 ton	01 54 33 60 2500	608.56	/day									6.2	1	HR		6.2	HR	3773
		Eq. Op., Crane or Shovel (Eqhv)	Eqhv	$60.00	HR									0.77	2	DAY		1.5	DAY	90
		Truck dump 16 ton payload	01 54 33 20 5300	435.96	/day									6.2	2	HR		12.4	HR	5406
		Truck Driver, Heavy	Trhv	$45.65	HR									6.2	2	HR		12.4	HR	566
		CLAB	Clab	$44.75	HR															
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			9869
	Equipment 's Disposal Cost																			
	Dismantling Cost	Chain link remove 8'-10'	02 41 13 60 1700	3.57	/LF	157									2	LF		314	LF	1121
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			1121
	Transformers																			
	Equipment 's Disposal Cost																			
	Dismantling Cost	Mechanical equipment heavy	25 05 05 10 3600	890	/ton							6				EA		6	EA	5340
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			5340
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	19	19	0.5							2	FT		13	CY	128
	Concrete's Vol. Demolished																1.3	17	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													17	CY	26
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													17	CY	64
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													17	CY	140
	Subtotal																			358
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			16668

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Coal Storage Bin 09																			
	Structure's Demolition Cost																			
		Torch Cutting Steel 1" plate	02 41 19 27 0020	1.21	/LF	163.3										LF		163	LF	197
		Torch Cutting Steel 1" bar	02 41 19 27 0040	1.71	/EA									0.66	1	DAY		0.7	DAY	1
		Truck Mounted Crane 25 ton	01 54 33 60 2500	608.56	/day									5.3	1	HR		5.3	HR	3225
		Eq. Op., Crane or Shovel (Eqhv)	Eqhv	$60.00	HR									0.66	2	DAY		1.3	DAY	78
		Truck dump 16 ton payload	01 54 33 20 5300	435.96	/day									5.3	2	HR		10.6	HR	4621
		Truck Driver, Heavy	Trhv	$45.65	HR									5.3	2	HR		10.6	HR	484
		CLAB	Clab	$44.75	HR															
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			8606
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	60	1	6								FT		13	CY	128
	Concrete's Vol. Demolished																1.3	17	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													17	CY	26
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													17	CY	64
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													17	CY	140
	Subtotal																			358
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	3	3	1							4	FT		1	CY	10
	Concrete's Vol. Demolished																1.3	1	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													1	CY	2
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													1	CY	4
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													1	CY	8
	Subtotal																			24
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	30	30	0.67								FT		22	CY	216
	Concrete's Vol. Demolished																1.3	29	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													29	CY	44
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													29	CY	110
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													29	CY	239
	Subtotal																			609
	Total																			9597

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
	Lump Coal 10																			
	Structure's Demolition Cost																			
		Torch Cutting Steel 1" plate	02 41 19 27 0020	1.21	/LF	225										LF		225	LF	272
		Torch Cutting Steel 1" bar	02 41 19 27 0040	1.71	/EA									0.55	1	DAY		0.55	DAY	1
		Truck Mounted Crane 25 ton	01 54 33 60 2500	608.56	/day									4.4	1	HR		4.4	HR	2678
		Eq. Op., Crane or Shovel (Eqhv)	Eqhv	$60.00	HR									0.55	2	DAY		1.1	DAY	66
		Truck dump 16 ton payload	01 54 33 20 5300	435.96	/day									4.4	2	HR		8.8	HR	3836
		Truck Driver, Heavy	Trhv	$45.65	HR									4.4	2	HR		8.8	HR	402
		CLAB	Clab	$44.75	HR															
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			7255
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	102	2	1								FT		8	CY	79
	Concrete's Vol. Demolished																1.3	10	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													10	CY	15
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													10	CY	38
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													10	CY	83
	Subtotal																			215
	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																			7470

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 Recovery Bin 11																			
	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	9.82	/CY	12	2.5	1							4	FT		4	CY	39
	Concrete's Vol. Demolished																1.3	5	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													5	CY	8
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													5	CY	19
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													5	CY	41
	Subtotal																			107
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	12	12	0.33								FT		2	CY	20
	Concrete's Vol. Demolished																1.3	3	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													3	CY	5
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													3	CY	11
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													3	CY	25
	Subtotal																			61
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			168

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
	Slack Bin 12																			
	Structure's Demolition Cost																			
	Structure was rerplaced by Conveyor																			
	tunnel 28																			
		Torch Cutting Steel 1" plate	02 41 19 27 0020	1.21	/LF	8										LF		8	LF	
		Torch Cutting Steel 1" bar	02 41 19 27 0040	1.71	/EA									0.2	1	DAY		0.2	DAY	
		Truck Mounted Crane 25 ton	01 54 33 60 2500	608.56	/day									1.6	1	HR		1.6	HR	
		Eq. Op., Crane or Shovel (Eqhv)	Eqhv	$60.00	HR									0.2	2	DAY		0.4	DAY	
		Truck dump 16 ton payload	01 54 33 20 5300	435.96	/day									1.6	2	HR		3.2	HR	
		Truck Driver, Heavy	Trhv	$45.65	HR									1.6	2	HR		3.2	HR	
		CLAB	Clab	$44.75	HR															
	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	9.82	/CY	2.5	2.5	1							4	FT		1	CY	
	Concrete's Vol. Demolished																1.3	1	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													1	CY	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													1	CY	
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													1	CY	
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	12	16	0.33							4	FT		9	CY	
	Concrete's Vol. Demolished																1.3	12	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													12	CY	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													12	CY	
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													12	CY	
	Subtotal																			
	Total																			0

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
	WHR Surge Bin 13																			
	Structure's Demolition Cost																			
		Torch Cutting Steel 1" plate	02 41 19 27 0020	1.21	/LF	458										LF		458	LF	554
		Torch Cutting Steel 1" bar	02 41 19 27 0040	1.71	/EA									0.85	1	DAY		0.85	DAY	1
		Truck Mounted Crane 25 ton	01 54 33 60 2500	608.56	/day									6.8	1	HR		6.8	HR	4138
		Eq. Op., Crane or Shovel (Eqhv)	Eqhv	$60.00	HR									0.85	2	DAY		1.7	DAY	102
		Truck dump 16 ton payload	01 54 33 20 5300	435.96	/day									6.8	2	HR		13.6	HR	5929
		Truck Driver, Heavy	Trhv	$45.65	HR									6.8	2	HR		13.6	HR	621
		CLAB	Clab	$44.75	HR															
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			11345
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	120	6	0.67								FT		18	CY	177
	Concrete's Vol. Demolished																1.3	23	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													23	CY	35
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													23	CY	87
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													23	CY	190
	Subtotal																			489
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	3	3	1							4	FT		1	CY	10
	Concrete's Vol. Demolished																1.3	1	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													1	CY	2
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													1	CY	4
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													1	CY	8
	Subtotal																			24
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	60	50	0.5								FT		56	CY	550
	Concrete's Vol. Demolished																1.3	73	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													73	CY	110
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													73	CY	277
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													73	CY	602
	Subtotal																			1539
	Total																			13397

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
	Ditch D 8D 14																			
	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	9.82	/CY	35	12	0.67								FT		10	CY	98
	Concrete's Vol. Demolished																1.3	13	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													13	CY	20
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													13	CY	49
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													13	CY	107
	Subtotal																			274
	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																			274

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
	Lump Coal Storage Pad 15																			
	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	9.82	/CY	118	4	1								FT		17	CY	167
	Concrete's Vol. Demolished																1.3	22	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													22	CY	33
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													22	CY	83
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													22	CY	182
	Subtotal																			465
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	38	80	0.67								FT		75	CY	737
	Concrete's Vol. Demolished																1.3	98	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													98	CY	147
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													98	CY	371
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													98	CY	809
	Subtotal																			2064
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			2529

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
	Equipment Wash Pad 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	9.82	/CY	40	25	0.5								FT		19	CY	187
	Concrete's Vol. Demolished																1.3	25	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													25	CY	38
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													25	CY	95
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													25	CY	206
	Subtotal																			526
	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																			526

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 Pad Shop 17																			
	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	9.82	/CY	11	9	0.5								FT		2	CY	20
	Concrete's Vol. Demolished																1.3	3	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													3	CY	5
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													3	CY	11
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													3	CY	25
	Subtotal																			61
	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																			61

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 Tanks 18																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	10			14						3	FT		4618	CF	1293
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	20			10						1	FT		1571	CF	440
	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																			1733
	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																			1733

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Fuel Tanks 19																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	10			13.5						2	FT		2863	CF	802
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	23			11.5						1	FT		2389	CF	669
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	19			9						3	FT		3626	CF	1015
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	11			4						1	FT		138	CF	39
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	7			7						1	FT		269	CF	75
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	5			9.5						1	FT		354	CF	99
	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																			
	Disposal Cost Steel																			
	Subtotal																			2699
	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																			2699

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Fuel Lines 20																			
	Structure's Demolition Cost	Pipe Steel 4" dia	02 41 13 33 3200	8.9	/LF	400										LF		400	LF	3560
	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																			3560
	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																			3560

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
	Fans 21																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished	Torch Cutting Steel 1" plate	02 41 19 27 0020	1.21	/LF	77										LF		77	LF	93
		Torch Cutting Steel 1" bar	02 41 19 27 0040	1.71	/EA										288	EA		288	EA	492
		Truck Mounted Crane 25 ton	01 54 33 60 2500	608.56	/day									1	1	DAY		1	DAY	609
		Eq. Op., Crane or Shovel (Eqhv)	Eqhv	$60.00	HR									8.2	1	HR		8.2	HR	492
		Truck dump 16 ton payload	01 54 33 20 5300	435.96	/day									1	2	DAY		2	DAY	872
		Truck Driver, Heavy	Trhv	$45.65	HR									8.2	2	HR		16.4	HR	749
		CLAB	Clab	$44.75	HR									8.2	2	HR		16.4	HR	734
	Subtotal																			4041
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	7.5	2	0.67							8	FT		3	CY	29
	Concrete's Vol. Demolished																1.3	4	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													4	CY	6
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													4	CY	15
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													4	CY	33
	Subtotal																			83
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	16	13	0.67							4	FT		21	CY	206
	Concrete's Vol. Demolished																1.3	27	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													27	CY	41
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													27	CY	102
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													27	CY	223
	Subtotal																			572
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			4696

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 22																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	6230	5	5								FT		155750	CF	43610
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	60	8	8							39	FT		149760	CF	41933
	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																			85543
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	3	3	1							188	FT		63	CY	619
	Concrete's Vol. Demolished																1.3	82	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													82	CY	123
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													82	CY	311
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													82	CY	677
	Subtotal																			1730
	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																			87273

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
	Bld Tank Seam 23																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	12	12	8								FT		1152	CF	323
	Subtotal																			323
	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																			323

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
	Septic Tanks 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																			
	Excavation of Septic Tanks																			
	Excavation	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY	10	10	3							4	FT		44	CY	82
	Backfill	Backfill Trench Mininal Haul 2 1/4 CY	31 23 16 13 3080	1.71	/CY	10	10	3							4	FT		44	CY	75
	Subtotal																			157
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY						1.5				4	CY		6	CY	59
	Concrete's Vol. Demolished																1.3	8	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													8	CY	12
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													8	CY	30
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													8	CY	66
	Subtotal																			167
	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																			324

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Culverts 25																			
	RC 01 Remove	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY						498					CY		498	CY	926
	RC 02 Remove	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY						1479					CY		1479	CY	2751
	RC 03 Remove	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY						448					CY		448	CY	833
	RC 04 Remove	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY						226					CY		226	CY	420
	RC 05 Remove	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY						178					CY		178	CY	331
	RC 06 Remove	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY						44					CY		44	CY	82
	RC 07 Remove	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY						451					CY		451	CY	839
	RC 08 Remove	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY						347					CY		347	CY	645
	RC 09 Remove	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY						3844					CY		3844	CY	7150
	RC 10 Remove	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY						1395					CY		1395	CY	2595
	RC 11 Remove	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY						44					CY		44	CY	82
	RC 12 Remove	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY						307					CY		307	CY	571
	Subtotal																			17225
	Subtotal																			0
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	140	0.25		5							FT		25	CY	246
	Concrete's Vol. Demolished																1.3	33	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													33	CY	50
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													33	CY	125
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													33	CY	272
	Subtotal																			693
	Total																			17918

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
	Watchman Trailer 26																			
	Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.3	/CF	8	8	7								FT		448	CF	134
	Structure's Vol. Demolished																0.3	5	CY	
	Rubble's Weight (exclude steel)												1.35			TON/CY		7	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel	Nielson Construction	Neilson Con.	7	/TON													7	TON	49
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			183
	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																			183

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
	Cap and Powder Mag 27																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	5	6	8							2	FT		480	CF	134
	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																			134
	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																			134

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 Tunnel 28																			
	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	9.82	/CY	470	7	0.5							2	FT		122	CY	1198
	Concrete's Vol. Demolished																1.3	159	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													159	CY	239
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													159	CY	603
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													159	CY	1312
	Subtotal																			3352
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	470	8	0.5							2	FT		139	CY	1365
	Concrete's Vol. Demolished																1.3	181	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													181	CY	272
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													181	CY	686
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													181	CY	1493
	Subtotal																			3816
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			7168

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
	Plug Well 29																			
	Structure's Demolition Cost	Plug Well	AML3	5000	EA.										1	EA		1	EA	5000
	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																			5000
	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																			5000

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 30																			
	Structure's Demolition Cost	Seal Portals	AML1	5200	EA.										14	EA		14	EA	72800
	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																			72800
	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																			72800

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
	Rip Rap 31																			
	Rip Rap	Machine placed rip-rap slope protection	31 37 13 10 0010	52.5	CY						7076					CY		7076	CY	371490
	Subtotal																			371490
	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																			371490

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 Lines and Poles 32																			
	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	Wire Removal	Old Means 1	11.3	/CLF	8700										FT		87	CLF	983
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			983
	Equipment 's Disposal Cost	Powerpole	Hiawatha	100	EA										50	EA		50	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																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			5983

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
	Channel Restoration No33																			
	See Culverts No 25																			
	Subtotal																			0
	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																			0

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
	Portals AM02A No 34																			
	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
	Culvert Removal No 35																			
	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																			0
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY						27.15					CY		27.15	CY	267
	Concrete's Vol. Demolished																1.3	35	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													35	CY	53
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													35	CY	133
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													35	CY	289
	Subtotal																			742
	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																			742

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
	RipRap No 36																			
	See Riprap No 31																			
	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																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			0

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
	Portals No 34																			
	Structure's Demolition Cost	Seal Portals	AML1	5200	EA.										3	EA		3	EA	15600
	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																			15600
	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																			15600

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
	Hilfiker Retaining Wall 35																			
	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																			
	Crane	Truck Mounted Crane 25 ton	01 54 33 60 2500	608.56	/day									2	1	days		2	days	1217
	Truck	Truck dump 16 ton payload	01 54 33 20 5300	435.96	/day									2	2	days		4	days	1744
	Crane Operator	Eq. Op., Crane or Shovel (Eqhv)	Eqhv	$60.00	HR									2	1	days		2	days	120
	Truck Driver	Truck Driver, Heavy	Trhv	$45.65	HR									2	2	days		4	days	183
	Labors	CLAB	Clab	$44.75	HR									16	2	hrs		32	hr	1432
	Subtotal																			4696
	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																			4696

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
	Sampling Station																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.28	/CF	9	12	10								FT		1080	CF	302
	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																			302
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.82	/CY	10	7	0.5								FT		1	CY	10
	Concrete's Vol. Demolished																1.3	1	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.5	/CY													1	CY	2
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 17 0320	3.79	/CY													1	CY	4
	Disposal Costs	Disposal on site	02 41 16 17 4200	8.25	/CF													1	CY	8
	Subtotal																			24
	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																			326

	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
Bear Canyon Mine															
Earthwork															
Tank Seam No 01															33577
Upper Storage Pad No 02															1872
Portal Pad Area No 03															3283
Portal Access Road No 04															9671
Lower Road Switchback No 05															0
Tipple Access Road No 06															0
Coal Storage Pad															59751
Scale House															810
Sediment Ponds															2430
Shower House															3268
Borehole No 12															39509
Wild Horse Ridge															37577
Support															106469
Volume															
Total															**298217**

	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
Bear Canyon Mine															
Grading															
Tank Seam No 01															
Tank Seam Access Road and Portal Pad Area															
Direct Cut and Fill															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	9649	CY	478	CY/HR	20.2	HR	4912
Load and Haul															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	10661	CY	313.7	CY/HR	34	HR	8268
6X4 50,000lbs 10-12 CY (20-15) (2nd2006)	3210	40.35	0.1	45.65	110.1	4	440.4	$/HR					34	HR	14974
Place Hauled Material															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	10661	CY	478	CY/HR	22.3	HR	5423
Volume									20310	CY					
Total															33577

	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
Bear Canyon Mine															
Grading															
Upper Storage Pad No 02															
Direct Cut and Fill															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	3666	CY	478	CY/HR	7.7	HR	1872
Volume									3666						
Total															1872

	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
Bear Canyon Mine Grading															
Portal Pad Area No 03															
Direct Cut and Fill															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	6445	CY	478	CY/HR	13.5	HR	3283
Volume									6445						
Total															3283

	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
Bear Canyon Mine															
Grading															
Portal Access Road No 04															
Direct Cut and Fill															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	5573	CY	478	CY/HR	11.7	HR	2845
Load and Haul															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	2553	CY	313.7	CY/HR	8.1	HR	1970
6X4 50,000lbs 10-12 CY (20-15) (2nd2006)	3210	40.35	0.1	45.65	110.1	4	440.4	$/HR					8.1	HR	3567
Place Hauled Material															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	2553	CY	478	CY/HR	5.3	HR	1289
Volume									8126						
Total															9671

	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
Bear Canyon Mine															
Grading															
Lower Road Switchback No 05															
Direct Cut and Fill															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	0	CY	478	CY/HR	0	HR	0
Volume									0						
Total															0

	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
Bear Canyon Mine															
Grading															
Tipple Access Road No 06															
Direct Cut and Fill															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	0	CY	478	CY/HR	0	HR	0
Volume									0						
Total															0

	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
Bear Canyon Mine															
Grading															
Coal Storage Pad															
Load and Haul Soil to other sites															
980G Series II EROPS (9-34) (2nd2006)	10255	51.7	0.1	57.85	178.81	1	178.81	$/HR	15428	CY	700	CY/HR	22	HR	3934
6X4 50,000lbs 10-12 CY (20-15) (2nd2006)	3210	40.35	0.1	45.65	110.1	14	1541.4	$/HR					22	HR	33911
Place Hauled Material															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	15428	CY	478	CY/HR	32.3	HR	7855
Move material on sitePlace Hauled Material															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35	$/HR	25157	CY	500	CY/HR	50.3	HR	14051
Volume									40585						
Total															59751

	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
Bear Canyon Mine															
Grading															
Scale House															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35	$/HR	1454	CY	500	CY/HR	2.9	HR	810
Volume									1454						
Total															810

	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
Bear Canyon Mine															
Grading															
Sediment Ponds															
Sediment Ponds "A"															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35	$/HR	3460	CY	400	CY/HR	8.7	HR	2430
Sediment Ponds "B"															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35	$/HR	0	CY	400	CY/HR	0	HR	0
Sediment Ponds "C"															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35	$/HR	0	CY	400	CY/HR	0	HR	0
Volume									3460						
Total															2430

	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
Bear Canyon Mine															
Grading															
Shower House															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35	$/HR	5851	CY	500	CY	11.7	CY	3268
Volume									5851						
Total															3268

	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
Bear Canyon Mine															
Grading															
Wild Horse Ridge															
WHR Portal Area															
Rough Backfilling and Grading															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35	$/HR	10288	CY	400	CY/HR	25.7	HR	7179
Haul and Place Topsoil															
980G Series II EROPS (9-34) (2nd2006)	10255	51.7	0.1	57.85	178.81	1	178.81	$/HR	4860	CY	498	CY/HR	9.8	HR	1752
6X4 50,000lbs 10-12 CY (20-15) (2nd2006)	3210	40.35	0.1	45.65	110.1	17	1871.7	$/HR					9.8	HR	18343
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35	$/HR	4860	CY	400	CY/HR	12.2	HR	3408
Subtotal															30682
WHR Upper Access Road															
Cut and Fill Material															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	1912	CY	478	CY/HR	4	HR	973
Haul and Place Topsoil															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	2171	CY	413.3	CY/HR	5.3	HR	1289
6X4 50,000lbs 10-12 CY (20-15) (2nd2006)	3210	40.35	0.1	45.65	110.1	3	330.3	$/HR					5.3	HR	1751
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	2171	CY	478	CY/HR	4.5	HR	1094
Subtotal															5107
WHR Lower Access Road															
Load and Haul Material with															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	1473.5	CY	478	CY/HR	3.1	HR	754
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35	$/HR	1473.5	CY	400	CY/HR	3.7	HR	1034
Subtotal															1788
Volume									20704.5						
Total															37577

	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
Bear Canyon Mine															
Grading															
Borehole No 12															
Load and Haul Material															
980G Series II EROPS (9-34) (2nd2006)	10255	51.7	0.1	57.85	178.81	1	178.81	$/HR	10560	CY	498	CY/HR	21.2	HR	3791
6X4 50,000lbs 10-12 CY (20-15) (2nd2006)	3210	40.35	0.1	45.65	110.1	13	1431.3	$/HR					21.2	HR	30344
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	57.85	243.18	1	243.18	$/HR	10560	CY	478	CY/HR	22.1	HR	5374
Volume									10560						
Total															39509

	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
Bear Canyon Mine															
Grading															
Support															
Foreman Average, Outside					62.25	1	62.25	$/HR					480	HR	29880
5,000 gal H2O truck Diesel (20-17) (2nd2006)	5170	55	0.1	45.65	138.46	1	138.46	$/HR					480	HR	66461
Pickup Truck Crew 4x4 1 ton (20-17) (2nd2006)	1070	13.1	0.1	0	21.1	1	21.1	$/HR					480	HR	10128
Total															106469

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 Mine Site 01																			513100
	Wild Horse Ridge 02																			95043
	Total																			608143

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 Mine Site 01																			
	Revegatation																			
	Drill Seeding																			
	Drill Seeding	Tractor Spreader (equip. & labor) B-66	Reveg004	12.71	/MSF					16						AC		697	MSF	8859
	Seed Material	Bear Canyon Main Mine Shrubs	Bear Canyon 001	166	$/AC					16						AC		16	AC	2656
	Seed Material	Bear Canyon Main Mine Forbes	Bear Canyon 002	149.05	$/AC					16						AC		16	AC	2385
	Seed Material	Bear Canyon Main Mine Grass	Bear Canyon 003	158.9	$/AC					16						AC		16	AC	2542
	Drill Seeding	Tractor Spreader (equip. & labor) B-66	Reveg004	12.71	/MSF					16						AC		697	MSF	8859
	Mulch	Tractor Spreader (equip. & labor) B-66	Reveg004	12.71	/MSF					16						AC		697	MSF	8859
	Mulch	Hay 1" material only 029105000250	Reveg001	0	/MSF					16						AC		697	MSF	0
	Stock Labor	Bare root seedlings, 11" to 16" med. soil	32 93 43 10 0140	1.71	Ea					16					500	AC		8000	EA	13680
	Stock Material	Bear Canyon Main Transplants	Bear Canyon 004	3.95	$/AC					16					500	AC		8000	EA	31600
	Ripping	300 HP Dozer w/ Ripper	31 23 16 32 2830	0.4	/CY					16						AC		25808	CY	10323
	Subtotal																			89763
	Hydroseeding																			
	Hydroseeding	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	210.37	/MSF					12.1						AC		527	MSF	110865
	Seed Material	Bear Canyon Main Mine Shrubs	Bear Canyon 001	166	$/AC					12.1						AC		12	AC	1992
	Seed Material	Bear Canyon Main Mine Forbes	Bear Canyon 002	149.05	$/AC					12.1						AC		12	AC	1789
	Seed Material	Bear Canyon Main Mine Grass	Bear Canyon 003	158.9	$/AC					12.1						AC		12	AC	1907
	Mulch	Hydro Spreader (equip. & labor) B-81	Reveg005	20.95	/MSF					12.1						AC		527	MSF	11041
	Mulch	Hay 1" material only 029105000250	Reveg001	0	/MSF					12.1						AC		527	MSF	0
	Stock Labor	Bare root seedlings, 11" to 16" med. soil	32 93 43 10 0140	1.71	Ea					12.1					500	AC		6050	EA	10346
	Stock Material	Bear Canyon Main Transplants	Bear Canyon 004	3.95	$/AC					12.1					500	AC		6050	EA	23898
	Pocking 340 CY/AC	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY					12.1						AC		4114	CY	7652
	Subtotal																			189490
	Riparian Planting Area																			
		Bear Canyon Main Mine Grass	Bear Canyon 008	889	$/AC					1						AC		1	AC	889
	Plant Stock	Bare root seedlings, 11" to 16" med. soil	32 93 43 10 0140	1.71	Ea					1					1000	AC		1000	EA	1710
	Subtotal																			1710
	Matting																			
	Matting	Revegetation mat, webbed	31 25 13 10 0120	7	SY					4.4						AC		21296	SY	149072
	Subtotal																			149072
	Total																			410479.5
	Reseed																			
	Assume 25% reseeding																			102620
	Subtotal																			102620
	Total																			513100

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
	Wild Horse Ridge 02																			
	Revegatation																			
	Drill Seeding																			
	Drill Seeding																			
	Drill Seeding																			
	Mulch																			
	Mulch																			
	Stock																			
	Ripping																			
	Subtotal																			
	Hydroseeding																			
	Hydroseeding	Hydro Spreader (equip. & labor) B-81	Reveg005	20.95	/MSF					4.04						AC		527	MSF	11041
	Hydroseeding	Bear Canyon Main Mine Grass	Bear Canyon 005	166	$/AC					4.04						AC		4	AC	664
		Bear Canyon Main Mine Grass	Bear Canyon 006	199.05	$/AC					4.04						AC		4	AC	796
	Hydroseeding	Bear Canyon Main Mine Grass	Bear Canyon 007	158.9	$/AC					4.04						AC		4	AC	636
	Mulch	Hydro Spreader (equip. & labor) B-81	Reveg005	20.95	/MSF					4.04						AC		527	MSF	11041
	Mulch	Hay 1" material only 029105000250	Reveg001	0	/MSF					4.04						AC		527	MSF	0
	Stock	Bear Canyon Main Transplants	Bear Canyon 004	3.95	$/AC					4.04					500	AC		2020	EA	7979
	Stock (labor cost = material cost)	Bare root seedlings, 11" to 16" med. soil	32 93 43 10 0140	1.71	Ea					4.04					500	AC		2020	EA	3454
	Pocking 340 CY/AC	Excavation Bulk Bank 2 CY (322BL)	31 23 16 32 0260	1.86	/CY					4.04						AC		1374	CY	2556
	Subtotal																			38167
	Matting																			
	Matting	Revegetation mat, webbed	31 25 13 10 0120	7	SY					1.6						AC		7744	SY	18709
	Subtotal																			18709
	Total Vegetation																			56876
	Reseed																			
	Assume 25% reseeding																			14219
	Subtotal																			14219
	Total																			95043

Bonding Calculations
Bear Canyon Mine

Bond Summary

Direct Costs

Subtotal Demolition and Removal	$765,187.00	
Subtotal Backfilling and Grading	$298,217.00	
Subtotal Revegetation	$608,143.00	
Direct Costs	$1,671,547.00	
Indirect Costs		
Mob/Demob	$167,155.00	10.0%
Contingency	$83,577.00	5.0%
Engineering Redesign	$41,789.00	2.5%
Main Office Expense	$113,665.00	6.8%
Project Mainagement Fee	$41,789.00	2.5%
Subtotal Indirect Costs	$447,975.00	26.8%
Total Cost	$2,119,522.00	
Escalation factor		0.032
Number of years		1
Escalation	$67,825.00	
Reclamation Cost	$2,187,347.00	
Bond Amount (rounded to nearest $1,000)	$2,187,000.00	
2008 dollars		
Bond Posted 2005 dollars	$1,825,000.00	
Difference Between Cost Estimate and Bond	-$362,000.00	
Percent Difference	-16.55%	
next midterm	4/2/2008	