



Lila Canyon Project
P. O. Box 910
East Carbon, Utah 84520
Phone: (435) 888-4000
(435) 650-3157
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Utah Division of Oil, Gas & Mining
Utah Coal Program
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

July 6, 2018

Attn: Daron Haddock
Permit Supervisor

Re: Lila Canyon Mine C/007/013 Road Paving Bonding

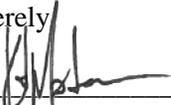
Dear Mr. Haddock,

Attached you will find an amendment to the Lila MRP to update Plate 5-2 to show proposed changes to the Mine Facility Road that includes paving the road from the main access cattle guard through the temporary loadout loop to minimize damage to the current road surface caused by coal trucks. Appendix 5-4, paragraph 3 describes the New Mine Facility Road plan in detail, including information regarding the road "will initially be graveled, but will be paved long term to minimize dust and provide good surface for heavy truck traffic". The bonding has been updated to reflect full paving of the entire length of the road at a 6" thickness. This amendment proposes UEI will pave half of the road in asphalt at this time, and the remaining half will remain graveled to avoid sinking and other damaged caused to asphalt by larger equipment needed for mining purposes. We have included Bonding updates to reflect the cost of reclamation as well.

UEI respectfully requests expedited processing and approval of this submittal so we can begin construction as soon as possible, while the weather is optimal for asphalt paving, and so production is not slowed.

If you have any questions, or need any additional information regarding this submittal, please contact me directly at 435-888-4000.

Sincerely,



Karin Madsen
Engineering Tech
UtahAmerican Energy, Inc.

APPLICATION FOR PERMIT PROCESSING

<input checked="" type="checkbox"/> Permit Change X	<input type="checkbox"/> New Permit	<input type="checkbox"/> Renewal	<input type="checkbox"/> Transfer	<input type="checkbox"/> Exploration	<input type="checkbox"/> Bond Release	Permit Number: ACT/007/013
L18-005 Road Paving Bonding						Mine: Lila Canyon
						Permittee: UtahAmerican Energy, Inc.

Description, include reason for application and timing required to implement:

Instructions: If you answer yes to any of the first 8 questions (gray), submit the application to the Salt Lake Office. Otherwise, you may submit it to your reclamation

<input type="checkbox"/> Yes	<input type="checkbox"/> No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? _____ acres X increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	2. Is the application submitted as a result of a Division Order? DO # _____
<input type="checkbox"/> Yes	<input type="checkbox"/> No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	4. Does application include operations in hydrologic basins other than as currently approved?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	6. Does the application require or include public notice/publication?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	9. Is the application submitted as a result of a Violation?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	10. Is the application submitted as a result of other laws or regulations or policies? Explain: _____
<input type="checkbox"/> Yes	<input type="checkbox"/> No	11. Does the application affect the surface landowner or change the post mining land use?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2?)
<input type="checkbox"/> Yes	<input type="checkbox"/> No	13. Does the application require or include collection and reporting of any baseline information?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	15. Does application require or include soil removal, storage or placement?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	17. Does the application require or include construction, modification, or removal of surface facilities?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	18. Does the application require or include water monitoring, sediment or drainage control measures?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	19. Does the application require or include certified designs, maps, or calculations?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	20. Does the application require or include subsidence control or monitoring?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	21. Have reclamation costs for bonding been provided for?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

X Attach complete copies of the application.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings and obligations, herein.

Signed Karin Madsen Name Karin Madsen / Engineering Tech Position 7-2-18 Date

Subscribed and sworn to before me this 27th day of July, 2018.

My Commission Expires: March 27, 2021
 Attest: Linda Kerns Notary Public
 STATE OF Utah
 COUNTY OF Carbone



LINDA KERNS
NOTARY PUBLIC
STATE OF UTAH
COMMISSION # 693708
COMM.EXP.03-27-2021

Received by Oil, Gas & Mining

ASSIGNED TRACKING NUMBER

Lila Canyon Mine Reclamation Bond Estimate

Bonding Calculations

Direct Costs

Subtotal Demolition and Removal	\$708,213.00
Subtotal Backfilling and Grading	\$452,273.00
Subtotal Revegetation	\$151,618.00

Direct Costs in 2017 Dollars	\$1,312,104.00
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Indirect Costs

Mob/Demob	\$131,210.00	10.0%
Contingency	\$65,605.00	5.0%
Engineering Redesign	\$32,803.00	2.5%
Main Office Expense	\$89,223.00	6.8%
Project Management Fee	\$32,803.00	2.5%

Subtotal Indirect Costs 2017 Dollars	\$351,644.00	26.8%
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Total Cost	\$1,663,748.00
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Escalation factor		0.000
Number of years		5
Escalation	\$0.00	

Total Reclamation Cost 2021 Dollars	\$1,663,748.00
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Bond Amount (rounded to nearest \$1,000)	\$1,664,000.00
2021 dollars	

Bond Posted	\$1,799,000.00
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Difference Between Posted Bond and Cost Estimate	\$135,000.00
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Lila Canyon Mine Reclamation Bond Estimate

Unit Costs

All unit costs were obtained from RS Means 2017 Site Work and Landscape Costs or RS Means 2017 Heavy Construction Costs, except as noted. All costs include overhead and profit.

Means Number	Item	Unit Cost	Units	
32 91 13.23 3100	75 HP Dozer with scarifier	5.85	MSF	
32 91 13.16 0390	Power mulcher, large, hay 1" deep	30.50	MSF	
32 01 90.13 0180	Fertilizer, hydro spread, 1.5 lb/MSF	5.00	MSF	
32 92 19.14 4600	Hydroseeder (equipment and labor only)	22.00	MSF	
05 05 05.10 0380	Fabricated steel demo, 121-500 lb	68.00	EA.	
05 05 05.10 0390	Fabricated steel demo, 501-1000 lb	91.00	EA.	
02 41 19.27 0020	Torch cutting, steel, 1" thick plate	3.21	LF	Unit cost reduced 30% for no interior walls (see 02 41 16.13 5000)
02 41 16.13 0020	Building Demolition - Steel	0.27	CF	
02 41 16.13 0100	Building Demolition - Mixture of Types	0.40	CF	
13 05 05.50 0650	Pre-engineered steel bldg demo, >12,500 SF	1.68	SF Flr	
02 41 16.17 0280	Concrete Floor Demolition, 4" thick, reinforced	0.89	SF	
02 41 16.17 0420	Concrete Floor Demolition, 6" thick, reinforced	1.11	SF	Unit cost increased 10% for reinforcing (see 02 41 16.17 2600)
02 41 16.17 2500	Concrete Wall/Floor Demo, 12" thick, reinforced	1.57	SF	
03 05 05.10 0060	Concrete, Selective Demo, Reinf 1-2% of X Sec	167.00	CY	
31 23 16.42 1300	Front End Loader 3CY	2.21	CY	
31 23 23.20 1014	12 CY (16 Ton) Dump Truck 1/2 rod, Trip	3.74	CY	
02 41 16.17 4200	On Site Disposal	11.40	CY	
Crew B-1	Portal seal, site preparation crew	1464.40	Day	See JennChem bid
04 22 10.34 1500	Block wall, reinforced, 4" thick (2 each seal)	8.50	SF	
JennChem	Seal portals, materials	4320.00	EA.	
JennChem	Seal portals, labor	265.00	HR	
Classic Helicopters	Portal seal support, material haulage	11965.00	Job	
23 05 05.10 3600	Mechanical Equipment Demolition, Heavy	1225.00	Ton	
28 05 05.10 1570	Demo of elec transformer, 3 ph, 750kVA	1700.00	EA.	
Crew A-3H	Hydraulic crane, 12 ton, with operator	1518.58	Day	
G1030 1100	Cut and fill common earth, 8" lift, 2 passes	7.00	CY	
31 23 16.42 0260	Excavation Bulk Bank 2 CY (322BL)	1.81	CY	
31 23 16.13 3080	Backfill Trench, min haul, FE loader 2 1/4 CY	2.50	CY	
Crew B-10M	Dozer, 300 HP, 50' haul, sandy clay and loam	2978.00	Day	
Crew B-14A	Loader, 500 HP, wheel mounted, 5 CY cap	4306.40	Day	
Crew B-10G	Sheepsfoot roller, 315 HP, 8" lifts, 2 passes	2313.60	Day	
Crew B-33K	Self-propelled scraper, 34 CY, 500 HP	418.20	HR	
Crew B-34F	Off-highway rear dump truck, 40 ton, 10 MPH	2234.80	Day	
Crew B-9A	5000 gallon water truck	2041.01	Day	
02 41 13.60 1700	Chain link removal, 8'-10' high	4.44	LF	
02 41 13.17 5050	Pavement Removal, bituminous, 4" to 6" thick	9.80	SY	See Scamp bid
02 41 13.30 1600	Median barrier, precast conc, remove and store	14.00	LF	
Scamp	Demolition debris, off-site haul and disposal	6.00	Ton	
02 41 13.80 0200	Wood utility poles, 35'-45' high	370.00	EA.	
02 41 13.80 0300	Wood cross arms, 4'-6' long	136.00	EA.	
Crew B-6	Backhoe loader, 2 laborers, equip operator	1980.00	Day	
Crew B-7	Log chipper, crew, and assoc equipment	5025.34	Day	
26 05 05.10 1900	Electrical demolition, #2 wire, from conduit	30.50	CLF	
02 65 10.30 0110	3000 to 5000 gal. undgrnd steel tank removal	860.00	EA.	
02 65 10.30 1023	3000 to 5000 gal. tank, disposal, 100 mi RT	830.00	EA.	
02 65 10.30 0300	3000 to 5000 gal. tank, sludge removal	285.00	EA.	
02 65 10.30 0390	Dispose of sludge off site	6.80	Gal	
1305 05.75 0530	5000 to 12000 gal. abovegrnd steel tank removal	1625.00	EA.	
02 41 13.40 0110	Demolition, CMP pipe, steel, 12"	2.60	LF	
02 41 13.40 0160	Demolition, CMP pipe, steel, 18"	3.90	LF	
02 41 13.40 0170	Demolition, CMP pipe, steel, 24"	14.70	LF	
02 41 13.40 0180	Demolition, CMP pipe, steel, 30"-36"	17.65	LF	
24 41 13.40 0190	Demolition, CMP pipe, steel, 48-60"	22.00	LF	
13 05 05.60 0050	Silos, Selective Demolition, steel	2900.00	EA.	
01 52 13.20 0800	Haul Connex units offsite	12.10	Mile	

Lila Canyon Mine Reclamation Bond Estimate

Demolition and Removal Cost Summary

Structure/Item	Cost (\$)
01 Office/Bathhouse	73,121
02 ROM Coal Stockpile	0
03 Shop/Warehouse	66,094
04 Storage Shed	348
05 Employee Parking	96,771
06 Truck Loading/Unloading Area	0
07 Equipment/Materials Storage Area	0
08 Potable Water Tank	3,741
09 Sewer Treatment Plant	887
10 Power Poles	11,603
11 Electrical Transformers	4,961
12 Overhead Power Lines	2,952
13 Buried Power Lines	816
14 Rock Dust Silo	3,147
15 Fuel Tanks	6,265
16 Reclaim Tunnel	23,160
17 Reclaim Conveyor	3,709
18 Crusher Conveyor to Loadout Bin	2,739
19 Crusher MCC Building	364
20 Truck Loadout	512
21 Refuse Conveyor	826
22 Crusher/Screen Plant	3,913
23 Reclaim Escape Tunnel	12,851
24 Reclaim Feeder Gate	137
26 Extended ROM Conveyor	3,258
27 Refuse/Non-Coal Waste Pile	0
28 Electrical Grounding Field	1,986
29 Sedimentation Pond Spillways	1,430
30 Existing ROM Conveyor	6,432
31 Portal Closure	63,312
32 Concrete Conveyor Bay	371
33 ROM Coal Staking Tube	8,858
34 Mine MCC Building and Electrical Tower	1,595
35 Backup Ventilation Fans	37,668
36 Main Ventilation Fan	37,599
37 Non-Potable Water Tanks	7,670
38 Powder and Cap Magazines	4,924
39 Chain Link Fence	6,676
40 Concrete Electrical Junction Box	73
41 Loadout MCC Building	289
42 Mine Parking	35,311
43 Abandoned Concrete Reclaim Room	5,364
44 Jersey Barrier	10,640
45 Concrete Trash Chute	1,280
46 Emergency Reclaim Feeder Gate	69
47 Gantry Lift Assembly	5,727
Mine Substation	8,476
Paved Mine Roads	63,224
Culvert Demolition	46,055
Lila Old Fan Portals	24,586
Visual Disconnect	6,279
Drop Box	145
TOTAL	708,213

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		
	01 Office/Bathhouse																					
	Structure's Demolition Cost	Pre-engineered steel bldg demo.>12,500 SF	13 05 05.50 0650	1.68	SF Fir	150	100	15		15000								15000	SF Fir	25200		
	Structure's Vol. Demolition										225000							0.3	2500	CY		
	Bathhouse New Addition Demo	Building Demolition - Mixture of Types	02 41 16.13 0100	0.40	CF			10		432	4320							0.3	1296	CF	518	
	Truck's Capacity																					
	Haulage																					
	Loading Cost Bathhouse New	Front End Loader 3CY	31 23 16.42 1300	2.21	CY															48	106	
	Transportation Cost Bathhouse New	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY															48	180	
	Disposal Cost Bathhouse New	On Site Disposal	02 41 16.17 4200	11.40	CY															48	547	
	Steel's Weight																					
	Truck's Capacity																					
	Haulage																					
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480							600	Tons	3600
	Transportation Cost Steel Drive																					
	Disposal Cost Steel																				0	
	Subtotal																				30151	
	Equipment's Disposal Cost																					
	Dismantling Cost																					
	Equipment's Vol. Demolished																					
	Load Conex Units	Hydraulic crane, 12 ton, with operator	Crew A-3H	1518.58	Day										1						1519	
	Haul Connex Units to SLC, UT	Haul Connex units offsite	01 52 13.20 0800	12.10	Mile										140	Miles				3	EA	5082
	Disposal Costs																					
	Subtotal																				6601	
	Concrete Demolition	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	SF	150	100	1														
	Concrete Footings - Conex Units	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	SF	60	2	1														
	Concrete Vol. Demolished																					
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY																728	1609
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY																728	2723
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY																728	8299
	Subtotal																					36369
	Concrete Demolition																					
	Concrete Cost																					
	Concrete Vol. Demolished																					
	Loading Costs																					
	Transportation Costs																					
	Disposal Costs																					
	Subtotal																					
	Total																					73121

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	
	02 ROM Coal Stockpile																				
	Structure's Demolition Cost	WILL BE GRADED WITH THE REMAINDER OF THE FILL AT THE TIME OF RECLAMATION. EXCESS COAL TO BE BURIED AS INDICATED IN THE MRP.																			
	Structure's Vol. Demolition																				
	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 and Disposal Cost All																				
	Transportation Cost Steel Drive																				
	Subtotal																				0
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Slab																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				0
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	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	
	03 Shop/Warehouse																				
	Structure's Demolition Cost	Pre-engineered steel bldg demo,>12,500 SF	13 05 05.50 0650	1.68	SF Flr	150	100	20		15000								15000	SF Flr	25200	
	Structure's Vol. Demolition										300000						0.3	3333	CY		
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/cy		800	Ton	4800	
	Transportation Cost Steel Drive																				
																				0	
	Subtotal																			30000	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Slab																				
	Concrete Demolition					150	100	1			556										
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	SF													15000	SF	23550	
	Concrete Vol. Demolished																				
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													1.3	723	CY	
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY															1598	
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY															2704	
	Subtotal																			8242	
																				36094	
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																			66094	

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
	04 Storage Shed																			
	Structure's Demolition Cost	Building Demolition - Mixture of Types	02 41 16.13 0100	0.40	CF	8	8	8										512	CF	204.8
	Structure's Vol. Demolition																0.3	6	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All	On Site Disposal	02 41 16.17 4200	11.40	CY													6	CY	68
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			273
	Concrete Demolition	Concrete Floor Demolition, 4" thick, reinforced	02 41 16.17 0280	0.89	SF	8	8	0.33										64	SF	57
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY										0.8	CY	1.3	1	CY	2
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													1	CY	4
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													1	CY	12
	Subtotal																			75
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			348

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	
	05 Employee Parking																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Pavement Removal	Pavement Removal, bituminous, 4" to 6" thick	02 41 13.17 5060	9.80	SY				0.33	76200						SF		8467	SY	82977	
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY						931					CY	1.3	1210	CY	13794	
	Subtotal																				96771
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				96771

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	
	06 Truck Loading/Unloading Area																				
	Structure's Demolition Cost	WILL BE GRADED WITH THE REMAINDER OF THE FILL AT THE TIME OF RECLAMATION. EXCESS COAL TO BE BURIED AS INDICATED IN THE MRP.																			
	Structure's Vol. Demolition																				
	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 and Disposal Cost All																				
	Transportation Cost Steel Drive																				
	Subtotal																				0
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				0
	Slab																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				0
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				0
	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	
	07 Equipment/Materials Storage Area																				
	Structure's Demolition Cost	WILL BE GRADED WITH THE REMAINDER OF THE FILL AT THE TIME OF RECLAMATION. EXCESS COAL TO BE BURIED AS INDICATED IN THE MRP.																			
	Structure's Vol. Demolition																				
	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 and Disposal Cost All																				
	Transportation Cost Steel Drive																				
	Subtotal																				0
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Slab																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				0
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	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	
	08 Potable Water Tank																				
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF			20	15									3534	CF	954	
	Structure's Vol. Demolition																	1296	SF		
	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																				
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								1.00			LB/SF		0.65	Ton	4	
	Transportation Cost Steel Drive																				
	Disposal Cost Steel																			0	
	Subtotal																			958	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Floor Demolition, 6" thick, reinforced	02 41 16.17 0420	1.11	SF	15	15	0.5											225	SF	250
	Concrete Vol. Demolished																	1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY														146		323
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY														146		546
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY														146		1664
	Subtotal																			2783	
	Total																			3741	

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	
	09 Sewer Treatment Plant																				
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF						1800				CF			1800	CF	486	
	Structure's Vol. Demolition																0.3	20	CY		
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/cy		5	Ton	30	
	Transportation Cost Steel Drive																				
	Disposal Cost Steel																			0	
	Subtotal																			516	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Floor Demolition, 6" thick, reinforced	02 41 16.17 0420	1.11	SF	15	15	0.5							225	SF		225	SF	250	
	Concrete Vol. Demolished																1.3	5.4	CY		
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													7		15	
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													7		26	
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													7		80	
	Subtotal																			371	
	Total																			887	

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
	10 Power Poles																			
	Structure's Demolition Cost	Wood utility poles, 35'-45' high	02 41 13.80 0200	370.00	EA.										13	EA.		13	EA.	4810
	Structure's Demolition Cost	Wood cross arms, 4'-6' long	02 41 13.80 0300	136.00	EA.										13	EA.		13	EA.	1768
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation and Disposal Cost All	Log chipper, crew, and assoc equipment	Crew B-7	5025.34	Day													1.00	Day	5025
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			11603
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			11603

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	
	11 Electrical Transformers																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				0
	Equipment's Demolition Cost	Demo of elec transformer, 3 ph, 750kVA	26 05 05.10 1570	1700.00	EA.										2				2 EA.		3400
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs	Hydraulic crane, 12 ton, with operator	Crew A-3H	1518.58	Day															1 Day	1519
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton															7 Ton	42
	Disposal Costs																				
	Subtotal																				4961
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				0
	Total																				4961

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
	12 Overhead Power Lines																			
	Structure's Demolition Cost	Electrical demolition, #2 wire, from conduit	26 05 05.10 1900	30.50	CLF	3220									3			9660	FT	2946
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								201			lb/MF		0.97	Ton	6
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			2952
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			2952

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
	13 Buried Power Lines																			
	Structure's Demolition Cost	Electrical demolition, #2 wire, from conduit	26 05 05.10 1900	30.50	CLF	890									3			2670	FT	814
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								201			lb/MF		0.27	Ton	2
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			816
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			816

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	14 Rock Dust Silo																			
	Structure's Demolition Cost	Silos, Selective Demolition, steel	13 05 05.60 0050	2900.00	EA										1	EA		1	Ea	2900
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								4			Ton		4	Ton	24
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			2924
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	16	16	1			256					CF		9	CY	14
	Concrete Vol. Demolished																1.3	12	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													12	CY	27
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod, Trip	31 23 23.20 1014	3.74	CY													12	CY	45
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													12	CY	137
	Subtotal																			223
	Total																			3147

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	
	15 Fuel Tanks																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				0
	Equipment Disposal Cost																				
	Tank Removal	3000 to 5000 gal. undrgrnd steel tank remov	02 65 10.30 0110	860.00	EA										3	EA		3	EA	2580	
	Remove Sludge	3000 to 5000 gal. tank, sludge removal	02 65 10.30 0300	285.00	EA										3	EA		3	EA	855	
	Tank Disposal	3000 to 5000 gal. tank, disposal, 100 mi RT	02 65 10.30 1023	830.00	EA										3	EA		3	EA	2490	
	Sludge Disposal	Dispose of sludge off site	02 65 10.30 0390	6.80	Gal										50	Gal		50	Gal	340	
	Subtotal																				6265
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				6265

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
16 Reclaim Tunnel																				
Conveyor Demolition Cost																				
Structure's Vol. Demolition																				
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 Drive																				
Disposal Cost Steel																				
Subtotal																				0
Equipment's Disposal Cost																				
Dismantling Cost																				
Equipment's Vol. Demolished																				
Loading Costs																				
Transportation Costs																				
Disposal Costs																				
Subtotal																				
Concrete Demolition																				
Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	810	8	8			960							960	CY	1507	
Concrete Vol. Demolished																	1.3			
Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY															1248	2758
Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY															1248	4668
Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY															1248	14227
Subtotal																				23160
Concrete Demolition																				
Concrete Cost																				
Concrete Vol. Demolished																				
Loading Costs																				
Transportation Costs																				
Disposal Costs																				
Subtotal																				
Total																				23160

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
	17 Reclaim Conveyor																			
	Conveyor Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	810	4	4								FT		12960	CF	3499
	Structure's Vol. Demolition																0.3	144	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		35	Ton	210
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			3709
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			3709

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	
	18 Crusher Conveyor to Loadout Bin																				
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	230	6	6								FT		8280	CF	2236	
	Structure's Vol. Demolition																0.3	92	CY		
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		22	Ton	132	
	Transportation Cost Steel Drive																				
	Disposal Cost Steel																				0
	Subtotal																				2368
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY						15								15	CY	24
	Concrete Vol. Demolished																	1.3	20	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY														20	CY	44
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY														20	CY	75
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY														20	CY	228
	Subtotal																				371
	Total																				2739

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	
	19 Crusher MCC Building																				
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	20	8	8								FT		1280	CF	346	
	Structure's Vol. Demolition																0.3	14	CY		
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		3	Ton	18	
	Transportation Cost Steel Drive																				
	Disposal Cost Steel																			0	
	Subtotal																			364	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																			0	
	Total																			364	

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
	20 Truck Loadout																			
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	5	5	20							500	CF		500	CF	135
	Structure's Vol. Demolition																0.3	6	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		1	Ton	6
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			141
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY						15							15	CY	24
	Concrete Vol. Demolished																1.3	20	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													20	CY	44
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													20	CY	75
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													20	CY	228
	Subtotal																			371
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			512

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
	21 Refuse Conveyor																			
	Conveyor Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	180	4	4								FT		2880	CF	778
	Structure's Vol. Demolition																0.3	32	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		8	Ton	48
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			826
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			826

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	
	22 Crusher/Screen Plant																				
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF						12000					CF		12000	CF	3240	
	Structure's Vol. Demolition																0.3	133	CY		
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		32	Ton	192	
	Transportation Cost Steel Drive																				
	Disposal Cost Steel																			0	
	Subtotal																			3432	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY						20								20	CY	31
	Concrete Vol. Demolished																				
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY														26	CY	57
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY														26	CY	97
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY														26	CY	296
	Subtotal																				481
	Total																				3913

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	
	23 Reclaim Escape Tunnel																				
	Corrugated Steel	Building Demolition - Steel	02 41 16.13 0020	0.27	CF						26880					CF		26880	CF	7258	
	Escape Tunnel	Building Demolition - Steel	02 41 16.13 0020	0.27	CF						1257							1257	CF	339	
	Fan	Building Demolition - Steel	02 41 16.13 0020	0.27	CF						64							64	CF	17	
	Fan House	Building Demolition - Steel	02 41 16.13 0020	0.27	CF						512							512	CF	138	
	Structure's Vol. Demolition																0.3	319	CY		
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp		6.00	Ton							480			lb/CY		77	Ton	462	
	Transportation Cost Steel Drive																				
	Disposal Cost Steel																			0	
	Subtotal																			8214	
	Excavation and Backfill																				
	Reclaim Tunnel	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	350	14	10								FT		1815	CY	3285	
	Escape Tunnel	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	325	4	10										481	CY	871	
	Subtotal																			4156	
	Concrete Demolition																				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY						20								20	CY	31
	Concrete Vol. Demolished																1.3		26	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY														26	CY	57
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY														26	CY	97
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY														26	CY	296
	Subtotal																			481	
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																			12851	

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
	24 Reclaim Feeder Gate																			
	Structure's Demolition Cost	Fabricated steel demo, 121-500 lb	05 05 05.10 0380	68.00	EA.													2	EA.	136
	Structure's Vol. Demolition																			
	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 & Disposal Cost Steel	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton	3	3						20.4			lb/SF		0.18	Ton	1
	Transportation Cost Steel Drive																			
	Subtotal																			137
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			137

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	
	26 Extended ROM Conveyor																				
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	300	6	6								FT		10800	CF	2916	
	Structure's Vol. Demolition																	0.3	120	CY	
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		29	Ton	174	
	Transportation Cost Steel Drive																				
	Disposal Cost Steel																				0
	Subtotal																				3090
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	10	10	1							2				7	CY	11
	Concrete Vol. Demolished																	1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21															9	CY	20
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY														9	CY	34
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY														9	CY	103
	Subtotal																				168
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				3258

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	
	27 Refuse/Non-Coal Waste Pile																				
	Structure's Demolition Cost	WILL BE GRADED WITH THE REMAINDER OF THE FILL AT THE TIME OF RECLAMATION. EXCESS COAL TO BE BURIED AS INDICATED IN THE MRP.																			
	Structure's Vol. Demolition																				
	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 and Disposal Cost All																				
	Transportation Cost Steel Drive																				
	Subtotal																				0
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Slab																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				0
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	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	
	28 Electrical Grounding Field																				
	Structure's Demolition Cost	Backhoe loader, 2 laborers, equip operator	Crew B-6	1980.00	Day										1				1	Day	1980
	Structure's Vol. Demolition																				
	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	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton																
	Transportation Cost Steel Drive																				
	Disposal Cost Steel																				
	Subtotal																				1986
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				0
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				1986

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	
	29 Sedimentation Pond Spillways																				
	Pond #2 Barrel Excavation	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	165	1.5	3								FT		28	CY	50	
	Subtotal																				50
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Pond #1 - 30" Principal Riser	Demolition, CMP pipe, steel, 30"-36"	02 41 13.40 0180	17.65	LF	20							30 lb/ft			FT		20	FT	353	
	Pond #1 - 30" Emergency Riser	Demolition, CMP pipe, steel, 30"-36"	02 41 13.40 0180	17.65	LF	19							30 lb/ft			FT		19	FT	335	
	Pond #2 - 12" Principal Riser	Demolition, CMP pipe, steel, 12"	02 41 13.40 0110	2.60	LF	5							103 lb/ft			FT		5	FT	13	
	Pond #2 - 15" Emergency Riser	Demolition, CMP pipe, steel, 18"	02 41 13.40 0160	3.90	LF	6							10 lb/ft			FT		6	FT	23	
	Pond #2 Barrel (SP2-1)	Demolition, CMP pipe, steel, 18"	02 41 13.40 0160	3.90	LF	165							15 lb/ft			FT		165	FT	644	
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation & Disposal Costs	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								4160 lb						2	Tons	12
	Disposal Costs																				
	Subtotal																				1380
	Total																				1430

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	
	30 Existing ROM Conveyor																				
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	475	6	6								FT		17100	CF	4617	
	Structure's Vol. Demolition																	0.3	190	CY	
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		46	Ton	276	
	Transportation Cost Steel Drive																				
	Disposal Cost Steel																				0
	Subtotal																				4893
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	24	24	1								3			64	CY	100
	Concrete Vol. Demolished																	1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21															83	CY	183
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY														83	CY	310
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY														83	CY	946
	Subtotal																				1539
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				6432

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
	31 Portal Closure																			
	Canopy Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	16	16	10							8	EA		20480	CF	5530
	Structure's Vol. Demolition																0.3	228	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480					55	Ton	330
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			5860
	Earthwork - North & South Breakouts																			
	Cut and fill - North Breakout	Cut and fill common earth, 8" lift, 2 passes	G1030 1100	7.00	CY						80							80	CY	560
	Cut and fill - South Breakout	Cut and fill common earth, 8" lift, 2 passes	G1030 1100	7.00	CY						20							20	CY	140
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			700
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Portal Sealing																			
	Seal Construction	Seal portals, materials	JennChem	4320.00	EA										8	EA		8	EA	34560
	Labor	Seal portals, labor	JennChem	265.00	HR										4	HR		32	HR	8480
	Site preparation	Portal seal, site preparation crew	Crew B-1	1464.40	Day										1	Day		8	Day	11715
	Block retaining walls	Block wall, reinforced, 4" thick (2 each seal)	04 22 10.34 1500	8.50	SF		20	8.6		344					16	EA		5504	SF	46784
	Transportation Costs	Portal seal support, material haulage	Classic Helicopters	11965.00	Job										1	Job		1	Job	11965
	Disposal Costs																			
	Subtotal																			
	Total																			63312

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	
	32 Concrete Conveyor Bay																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Disposal Cost Steel																				0
	Subtotal																				0
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500		1.57	CY					15								15	CY	24
	Concrete Vol. Demolished																	1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300		2.21														20	CY	44
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014		3.74	CY													20	CY	75
	Disposal Costs	On Site Disposal	02 41 16.17 4200		11.40	CY													20	CY	228
	Subtotal																				371
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				371

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	
	33 ROM Coal Staking Tube																				
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF			80	20							CF		25133	CF	6786	
	Structure's Vol. Demolition																0.3	279	CY		
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		67	Ton	402	
	Transportation Cost Steel Drive																				
	Disposal Cost Steel																			0	
	Subtotal																			7188	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	25	25	3								FT		69	CY	108	
	Concrete Cost																1.3				
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													90	CY	199	
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													90	CY	337	
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													90	CY	1026	
	Subtotal																			1670	
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																			8858	

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	
	34 Mine MCC Building and Electrical Tower																				
	MCC Bldg Demolition Cost	Pre-engineered steel bldg demo >12,500 SF	13 05 05.50 0650	1.68	SF Fir	30.5	12	9					480			lb/CY	0.3	366	SF Fir	615	
	Elec Tower Demolition Cost	Torch cutting, steel, 1" thick plate	02 41 19.27 0020	3.21	LF	220							76.33			lb/FT		220	LF	706	
	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	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton																
	Transportation Cost Steel Drive																				
	Disposal Cost Steel																				
	Subtotal																				1423
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Front End Loader 3CY	31 23 16.42 1300	2.21	CY	30.5	12	0.5													
	Concrete Vol. Demolished																	1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21																	
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY																
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY																
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				0
	Total																				1595

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	
	35 Backup Ventilation Fans																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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																				
	Transportation Cost Steel Drive																				
	Subtotal																				0
	Equipment's Disposal Cost																				
	Dismantling Cost	Mechanical Equipment Demolition, Heavy	23 05 05.10 3600	1225.00	Ton							30				Ton		30	Ton	36750	
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton														30	Ton	180
	Disposal Costs																				
	Subtotal																				36930
	Concrete Demolition																				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	SF	20	20	0.5		400						SF		400	SF	628	
	Concrete Vol. Demolished																				
	Loading Costs																				0
	Transportation Costs																				0
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY						7.4						1.3	10	CY	110	
	Subtotal																				738
	Shot Crete																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				0
	Total																				37668

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	
	36 Main Ventilation Fan																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Helicopter	Portal seal support, material haulage	Classic Helicopters	11965.00	Job										0.2	Day		0.2	Day	2393	
	Transportation Cost Steel Drive																				
	Subtotal																			2393	
	Equipment's Disposal Cost																				
	Dismantling Cost	Mechanical Equipment Demolition, Heavy	23 05 05.10 3600	1225.00	Ton							28				Ton		28	Ton	34300	
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton														28	Ton	168
	Disposal Costs																				
	Subtotal																				34468
	Concrete Demolition																				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	SF	20	20	0.5		400						SF		400	SF	628	
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY						7.4						1.3	10	CY	110	
	Subtotal																				738
	Shot Crete																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				0
	Total																				37599

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
	37 Non-Potable Water Tanks																			
	Structure's Demolition Cost	5000 to 12000 gal. aboveqmd steel tank removal	1305 05.75 0530	1625.00	EA.										3	EA.		3	EA.	4875
	Structure's Vol. Demolition																			
	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 and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton															
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			4887
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Floor Demolition, 6" thick, reinforced	02 41 16.17 0420	1.11	SF	15	15	0.5												
	Concrete Vol. Demolished																			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY															146
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY															146
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY															146
	Subtotal																			2783
	Total																			7670

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
	38 Powder and Cap Magazines																			
	Structure's Demolition Cost	Mechanical Equipment Demolition, Heavy	23 05 05.10 3600	1225.00	Ton							4				Ton		4	Ton	4900
	Structure's Vol. Demolition																			
	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 and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton							4				Ton		4	Ton	24
	Transportation Cost Steel Drive																			
	Subtotal																			4924
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			4924

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	
	39 Chain Link Fence																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				0
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Fence Demolition	Chain link removal, 8'-10' high	02 41 13.60 1700	4.44	FT	1500										FT		1500	FT	6660	
	Transportation and Disposal	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								3.5			lb/FT		2.6	Ton	16	
	Subtotal																				6676
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				6676

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
	40 Concrete Electrical Junction Box																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	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 Drive																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Footing																			
	Structure	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	2	2	1			1					CY		1	CY	2
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	4	4	1			2					CY		2	CY	3
	Concrete Vol. Demolished																1.3	4	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													4	CY	9
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													4	CY	15
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													4	CY	46
	Subtotal																			73
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			73

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
	41 Loadout MCC Building																			
	MCC Bldg Demolition Cost	Pre-engineered steel bldg demo,>12,500 SF	13 05 05.50 0650	1.68	SF Fir	16	8	8										128	SF Fir	215
	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	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton							480				lb/CY	0.3	3	Ton	18
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			233
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Front End Loader 3CY	31 23 16.42 1300	2.21	CY	16	8	0.5												4
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21																7
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY															11
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY															34
	Subtotal																			56
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			289

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
	42 Mine Parking																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	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 Drive																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Pavement Removal	Pavement Removal, bituminous, 4" to 6" thick	02 41 13.17 5050	9.80	SY			0.33		27800						SF		3089	SY	30272
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY						340					CY	1.3	442	CY	5039
	Subtotal																			35311
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			35311

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
	43 Abandoned Concrete Reclaim Room																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	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 Drive																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Fence Demolition																			
	Subtotal																			
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	15	20	10				111			2	CY		222	CY	349
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													289	CY	639
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													289	CY	1081
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													289	CY	3295
	Subtotal																			5364
	Total																			5364

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	
	44 Jersey Barrier																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Median Barrier	Median barrier, precast conc. remove and store	02 41 13.30 1600	14.00	FT	760													760	FT	10640
	Subtotal																				10640
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				10640

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	
	45 Concrete Trash Chute																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Walls					10	10	0.67				5				CY					
	Walls					50	10	0.67				25				CY					
	Floor					52	12	1				23				CY					
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforn	02 41 16.17 2500	1.57	CY							53				CY		53	CY	83	
	Concrete Vol. Demolished																				
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY														69	CY	152
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY														69	CY	258
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY														69	CY	787
	Subtotal																				1280
	Total																				1280

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	
	46 Emergency Reclaim Feeder Gate																				
	Structure's Demolition Cost	Fabricated steel demo, 121-500 lb	05 05 05.10 0380	68.00	EA.													1	EA.	68	
	Structure's Vol. Demolition																				
	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 & Disposal Cost Steel	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton	3	3						20.4			lb/SF		0.09	Ton	1	
	Transportation Cost Steel Drive																				
	Subtotal																				69
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				0
	Total																				69

Ref.	Description	Materials
	47 Gantry Lift Assembly	
	Structure's Demolition Cost	Fabricated steel demo, 121-500 lb
	Structure's Demolition Cost	Fabricated steel demo, 501-1000 lb
	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 & Disposal Cost Steel	
	Transportation Cost Steel Drive	
	Subtotal	
	Equipment's Disposal Cost	
	Dismantling Cost	
	Equipment's Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Concrete Demolition	
	Footings	Concrete, Selective Demo, Reinf 1-2% of X Sec
	Concrete Vol. Demolished	
	Loading Costs	Front End Loader 3CY
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip
	Disposal Costs	On Site Disposal
	Subtotal	
	Concrete Demolition	
	Foundation	Concrete, Selective Demo, Reinf 1-2% of X Sec
	Tube	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	Front End Loader 3CY
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip
	Disposal Costs	On Site Disposal
	Subtotal	
	Total	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Mine Substation																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				0
	Equipment's Demolition Cost	Demo of elec transformer, 3 ph, 750kVA	26 05 05.10 1570	1700.00	EA.										2				2 EA.		3400
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs	Hydraulic crane, 12 ton, with operator	Crew A-3H	1518.58	Day														1 Day		1519
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton														7 Ton		42
	Disposal Costs																				
	Subtotal																				4961
	Fence Demolition	Chain link removal, 8'-10' high	02 41 13.60 1700	4.44	FT	654													654 FT		2904
	Subtotal																				2904
	Concrete Demolition																				
	Concrete Cost	Concrete Floor Demolition, 6" thick, reinforced	02 41 16.17 0420	1.11	SF	20	20	0.5							400	SF			400 SF		444
	Concrete Vol. Demolished														7.4	CY	1.3				
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY														9.62 CY		21
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY														9.62 CY		36
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY														9.62 CY		110
	Subtotal																				611
	Total																				8476

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 Demolition																			
DC-1		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	60	1.5	3								FT		10	CY	18
DC-2		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	60	1.5	3								FT		10	CY	18
DC-3		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	65	1.5	3								FT		11	CY	20
DC-4		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	400	2	3								FT		89	CY	161
DC-5		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	350	2	3								FT		78	CY	141
DC-6		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	107	2	3								FT		24	CY	43
DC-7		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	155	2	3								FT		34	CY	62
DC-8		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	167	2	3								FT		37	CY	67
DC-9		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	186	2	3								FT		41	CY	75
DC-10		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	60	2	3								FT		13	CY	24
DC-11		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	101	2	3								FT		22	CY	41
DC-12a		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	140	2.5	3.5								FT		45	CY	82
DC-12b		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	79	2.5	3								FT		22	CY	40
DC-12c		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	357	2.5	3								FT		99	CY	179
DC-12d		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	9	2.5	3.5								FT		3	CY	5
DC-13		PREVIOUSLY REMOVED																		0
DC-14		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	40	1.5	3								FT		7	CY	12
DC-15		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	45	1.5	3								FT		8	CY	14
DC-16		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	25	1.5	3								FT		4	CY	8
DC-17		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	120	1.5	3								FT		20	CY	36
DC-18		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	27	1.5	3								FT		5	CY	8
UC-1		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	120	5	6								FT		133	CY	241
UC-1a		Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	360	5	6								FT		400	CY	724
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Demolition Cost 18" CMP																			
	Demolition Cost 24" CMP																			
	Demolition Cost 60" CMP																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation & Disposal Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			

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
	Lila Old Fan Portals																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolition																			
	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 Drive																			
	Subtotal																			
	Old Horse Canyon Lila Fan Portals																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation and Disposal Cost All																			
	Disposal Costs																			
	Subtotal																			0
	Portal Sealing																			
	Seal Construction	Seal portals, materials	JennChem	4320.00	EA										2	EA		2	EA	8640
	Labor	Seal portals, labor	JennChem	265.00	HR									8	HR		16	HR	4240	
	Site preparation	Portal seal, site preparation crew	Crew B-1	1464.40	Day									2	Day		4	Day	5858	
	Block retaining walls	Block wall, reinforced, 4" thick (2 each seal	04 22 10.34 1500	8.50	SF		20	8.6		344					2		688	SF	5848	
	Subtotal																			24586
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			24586

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	
	Visual Disconnect																				
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	20	30	8								FT		4800	CF	1296	
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	40	10	8								FT		3200	CF	864	
	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 & Disposal Cost Steel	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								480			lb/CY		71	Ton	426	
	Transportation Cost Steel Drive																				
	Subtotal																			2586	
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished	Mechanical Equipment Demolition, Heavy	23 05 05.10 3600	1225.00	Ton							1				Ton		3	Ton	3675	
	Loading Costs																				
	Transportation & Disposal Cost Steel	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton																
	Disposal Costs																				
	Subtotal																			3675	
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	4	6	0.5								FT		0.4	CY	1	
	Concrete Vol. Demolished																1.3	1	CY		
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY														1	CY	2
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY														1	CY	4
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY														1	CY	11
	Subtotal																			18	
	Total																			6279	

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	
	Drop Box																				
	Structure's Demolition Cost																				
	Structure's Vol. Demolition																				
	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 Drive																				
	Subtotal																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Footing																				
	Structure	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	2	2	3.44			2					CY		2	CY	3	
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	CY	4	4	1.5			4					CY		4	CY	6	
	Concrete Vol. Demolished																1.3		8	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY														8	CY	18
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY														8	CY	30
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY														8	CY	91
	Subtotal																				145
	Concrete Demolition																				
	Concrete Cost																				
	Concrete Vol. Demolished																				
	Loading Costs																				
	Transportation Costs																				
	Disposal Costs																				
	Subtotal																				
	Total																				145

Lila Canyon Mine Reclamation Bond Estimate
Earthwork Costs

Description	Quantity	Units	Production Rate	Units	Production Time	Units	Materials/Equipment/Labor	Cost Reference RSMMeans Ref #	Unit Cost	Units	Quantity	Cost
Mine Site Earthwork Estimate												
Load and Haul Backfill												
631G (9-51)(2nd04)	43783	CY	393	CY/HR	111.4	HR	Self-propelled scraper, 34 CY, 500 HP	Crew B-33K	418.20	HR	111.4	\$46,587
Spread, Compact, and Scarify Backfill												
D8, Track-mounted	43783	CY	1850	CY/Day	23.7	Day	Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	23.7	\$70,579
825G (6-13)(4Q03)	43783	CY	4100	CY/Day	10.7	Day	Sheepsfoot roller, 315 HP, 8" lifts, 2 passes	Crew B-10G	2313.60	Day	10.7	\$24,756
Scarify subsoil	28.70	ac	240	MSF/Day	5.2	Day	75 HP Dozer with scarifier	32 91 13.23 3100	5.85	MSF	1250	\$7,313
Backfill, Grade, and Scarify Upper Road Area												
770 (20-11)(3Q03)	5000	CY	882	CY/Day	5.7	Day	Off-highway rear dump truck, 40 ton, 10 MPH	Crew B-34F	2234.80	Day	5.7	\$12,738
988G EROPS (9-38)(3Q04)	5000	CY	1480	CY/Day	3.4	Day	Loader, 500 HP, wheel mounted, 5 CY cap	Crew B-14A	4306.40	Day	3.4	\$14,642
D8, Track-mounted	5000	CY	1850	CY/Day	2.7	Day	Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	2.7	\$8,041
Scarify subsoil	4.24	ac	240	MSF/Day	0.8	Day	75 HP Dozer with scarifier	32 91 13.23 3100	5.85	MSF	185	\$1,082
Load, Haul, and Spread Topsoil - Main Area												
631G (9-51)(2nd04)	61086	CY	393	CY/HR	155.4	HR	Self-propelled scraper, 34 CY, 500 HP	Crew B-33K	418.20	HR	155.4	\$64,988
D9R Semi-U EROPS (9-54 (2H04)	61086	CY	1850	CY/Day	33	Day	Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	33	\$98,274
Load, Haul, and Spread Topsoil - Upper Road Area												
770 (20-11)(3Q03)	10000	CY	882	CY/Day	11.3	Day	Off-highway rear dump truck, 40 ton, 10 MPH	Crew B-34F	2234.80	Day	11.3	\$25,253
988G EROPS (9-38)(3Q04)	10000	CY	1480	CY/Day	6.8	Day	Loader, 500 HP, wheel mounted, 5 CY cap	Crew B-14A	4306.40	Day	6.8	\$29,284
D8, Track-mounted	10000	CY	1850	CY/Day	5.4	Day	Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	5.4	\$16,081
Support												
Water Truck							5000 gallon water truck	Crew B-9A	2041.01	Day	16.0	\$32,656
Subtotal												\$452,273

Lila Canyon Mine Reclamation Bond Estimate
Revegetation Costs

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Mine Site Revegetation Estimate															
	<i>Ground Preparation</i>															
	Pocking	Excavation Bulk Bank 2 CY (322BL)	31 23 16.42 0260	1.81	CY	37.02	ac		340	CY/ac				12586.8	CY	22782
	<i>Site Revegetation</i>															
	Mulch Material, Labor, and Equipment	Power mulcher, large, hay 1" deep	32 91 13.16 0390	30.50	MSF	37.02						ac		1613	MSF	49197
	Seeding Material	Lila Canyon Seed Mix (see below)	Great Basin Seed	155.80	ac	37.02						ac		37.00	AC	5764
	Seeding Equipment and Labor	Hydroseeder (equipment and labor only)	32 92 19.14 4600	22.00	MSF	37.02						ac		1613	MSF	35486
	Fertilizer equipment, materials, & labor	Fertilizer, hydro spread, 1.5 lb/MSF	32 01 90.13 0180	5.00	MSF	37.02						ac		1613	MSF	8065
	Subtotal															121,294
	<i>Mine Site</i>															
	Re-vegetate 25% of area															30324
	Subtotal															30,324
	Total															151,618

Seed mix cost based on the application rates provided in Table 3.4/3.5 of the MRP
Seed prices downloaded October 2017 from greatbasinseeds.com

Common Name	Seeding Rate (lb PLS/ac)	Unit Cost (\$/lb)	Mix Cost (\$/ac)
Grasses			
Needle and Thread	2.00	39.5	79.00
Indian Ricegrass	2.00	6.95	13.90
Basin Wild Rye	1.00	16.95	16.95
Galleta	1.00	24.00	24.00
Bluebunch Wheatgrass	1.00	8.95	8.95
Slender Wheatgrass	2.00	2.95	5.90
Blue Gramma	1.00	16.00	16.00
Forbs			
Blue Flax	1.00	8.75	8.75
Palmer penstemon	0.25	10.00	2.50
Globemallow	0.50	59.00	29.50
Indian Paintbrush	0.10	150.00	15.00
Fringed Sage	0.10	18.00	1.80
Shrubs			
Wyoming Big Sage	0.25	9.50	2.38
Green Rabbitbrush	0.10	18.00	1.80
Fourwing Saltbush	0.84	13.00	10.92
Winterfat	1.00	18.00	18.00
Shadscale	1.00	9.00	9.00
Cliffrose	1.00	38.00	38.00
Black Sage	0.25	15.95	3.99
			Subtotal = 141.63
			10% increase to account for PLS requirement = 14.16
			Seed mix unit cost = 155.80