

#6051



Lila Canyon Project
P. O. Box 910
East Carbon, Utah 84520
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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

January 30, 2020

Attn: Steve Christensen
Permit Supervisor

Re: Lila Canyon Mine, UtahAmerican Energy, Inc. C/007/013
L19-006 Temporary Shop Tent

RECEIVED
FEB 04 2020
DIV OF OIL, GAS & MINING

Dear Mr. Christensen

Attached you will find the Clean Copies for the temporary shop tent to be incorporated into the Lila Canyon MRP. The bond rider increase has been sent separately.

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

Sincerely,



Karin Madsen
Environmental Permitting Engineer
UtahAmerican Energy, Inc.

Application for Permit Processing Detailed Schedule of Changes to the MRP

L19-006 Temporary Shop Tent

Permit Number: ACT/007/013

Mine: Lila Canyon

Permittee: UtahAmerican Energy, Inc.

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit application. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the existing mining and reclamation plan. **Include page, section and drawing numbers as part of the description.**

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Plate 5-2 As Built Surface Facilities
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Chapter 5 page 10
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Bonding Calculations - Tab 01 and Total tab.
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	

Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?

perform minor equipment repairs. The building measures approximately 30' by 62'. Once long-term offices and the long-term Shop/Warehouse have been constructed, the temporary office / shop building will be raised. A temporary shop structure will be assembled on the Temporary Storage Pad and is located on Plate 5-2 As-Built Surface Facilities. This structure will consist of a 40'x60' tent, similar to the storage tent already on site, and two conex trailers. There will be no concrete pad underneath it.

4) Temporary Storage Shed (Wooden)

The temporary wooden storage shed measures approximately 10' by 20' by 8' high, with a wooden floor structure. The shed is used to store various equipment and supplies needed for mine operations. Multiple sheds are currently used. The locations of these sheds are shown on Plate 5-2. Once the long-term Shop/Warehouse has been constructed, the temporary storage sheds will be removed.

5) Temporary Storage Building (Metal)

The temporary metal storage building is a prefabricated, metal, intermodal container used for storage. These structures are sometimes referred to as "conex containers." The containers are typically 20' to 40' long by 8' wide by 8.5' high. These structures are used to store various equipment and supplies needed for mine operations. The metal storage structures typically provide a higher level of security than do wooden sheds. Multiple metal storage buildings are currently used. The locations of these buildings are shown on Plate 5-2. Once the long-term Shop/Warehouse has been constructed, the temporary storage buildings will be removed.

7) Temporary Office Building

The temporary office / storage building is shown on Plate 5-2. The office space is used by mine personnel in support positions to mine operations. The building measures 20' by 12' by 10' high. The building is a wood frame on a concrete foundation. The floor is a 4" thick concrete slab. Once the long-term office areas and Shop/Warehouse have been constructed, the temporary office building will be razed.

9) Temporary Storage Tent with Concrete Floor

The temporary storage tent is constructed of an arched metal wall/roof structure covered with a canvas overlay. The tent rests on a 6" concrete floor slab. Two tents are currently in use at the mine site. One tent measures 30' by 30'. The other measures 70' by 48'. The tents are used to store large wares and supplies needed for mining operations that need some protection from the weather. The temporary storage tents with concrete floors are shown on Plate 5-2. Once the long-term Shop/Warehouse has been constructed, the temporary storage tents and associated concrete floor slabs will be removed.

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Lila Canyon Mine Reclamation Bond Estimate

Bonding Calculations

Direct Costs

Subtotal Demolition and Removal	\$912,389.00
Subtotal Backfilling and Grading	\$567,433.00
Subtotal Revegetation	\$151,618.00

Direct Costs in 2017 Dollars	\$1,631,440.00
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Indirect Costs

Mob/Demob	\$163,144.00	10.0%
Contingency	\$81,572.00	5.0%
Engineering Redesign	\$40,786.00	2.5%
Main Office Expense	\$110,938.00	6.8%
Project Management Fee	\$40,786.00	2.5%

Subtotal Indirect Costs 2017 Dollars	\$437,226.00	26.8%
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Total Cost	\$2,068,666.00
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Escalation factor	0.0232
Number of years	2
Escalation	\$97,100.00

Total Reclamation Cost 2021 Dollars	\$2,165,766.00
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Bond Amount (rounded to nearest \$1,000) 2021 dollars \$2,166,000.00

Bond Posted \$2,054,000.00

Difference Between Posted Bond and Cost Estimate -\$112,000.00

~~Rider~~
updated
5-6-19

2,166,000
Rider
Updated
1-28-20

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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 re (see 02 4
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	Unit cost in (see 02 4
02 41 16.17 0420	Concrete Floor Demolition, 6" thick, reinforced	1.11	SF	
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 JennC
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	
26 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	See Scamp
02 41 13.17 5050	Pavement Removal, bituminous, 4" to 6" thick	9.80	SY	
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	

Means Number	Item	Unit Cost	Units
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 Conex units offsite	12.10	Mile

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reduced 30% for no interior walls
(1 16.13 5000)

increased 10% for reinforcing
(1 16.17 2600)

same bid

same bid

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Lila Canyon Mine Reclamation Bond Estimate

Demolition and Removal Cost Summary

Structure/Item	Cost (\$)
01 Office/Bathhouse	84,816
02 ROM Coal Stockpile	0
03 Shop/Warehouse	248,578
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 & Oil Tanks	7,902
16 Reclaim Tunnel	23,160
17 Reclaim Conveyor	3,709
18 Conveyor to Loadout Bin	4,341
19 Crusher MCC Building	364
20 Truck Loadout	7,270
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

Lila Canyon Mine
C0070013

Reclamation Bond Estimate

October 2017
Updated February 2019

Paved Mine Roads	63,224
Culvert Demolition	46,055
Lila Old Fan Portals	24,586
Visual Disconnect	6,279
Drop Box	145
TOTAL	912,389

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Ref.	Description	Materials
	01 Office/Bathhouse	
	Structure's Demolition Cost	Pre-engineered steel bldg demo,>12,500 SF
	Structure's Vol. Demolition	
	Bathhouse New Addition Demo	Building Demolition - Mixture of Types
	Truck's Capacity	
	Haulage	
	Loading Cost Bathhouse New	Front End Loader 3CY
	Transportation Cost Bathhouse New	12 CY (16 Ton) Dump Truck 1/2 rod. Trip
	Disposal Cost Bathhouse New	On Site Disposal
	Steel's Weight	
	Truck's Capacity	
	Haulage	
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	Equipment's Disposal Cost	
	Dismantling Cost	
	Equipment's Vol. Demolished	
	Load Conex Units	Hydraulic crane, 12 ton, with operator
	Haul Conex Units to SLC, UT	Haul Conex units offsite
	Disposal Costs	
	Subtotal	
	Concrete Demolition	Concrete Wall/Floor Demo, 12" thick, reinforced
	Concrete Footings - Conex Units	Concrete Wall/Floor Demo, 12" thick, reinforced
	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	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	02 ROM Coal Stockpile	
	Structure's Demolition Cost	WILL BE GRADED WITH THE REMAINDER OF T-
	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	
	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	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	03 Shop/Warehouse	
	Structure's Demolition Cost (Shop 1)	Pre-engineered steel bldg demo,>12,500 SF
	Structure's Vol. Demolition (Shop 1)	
	Structure's Demolition Cost (Shop 2)	Pre-engineered steel bldg demo,>12,500 SF
	Structure's Vol. Demolition (Shop 2)	
	Structure's Demolition Cost (Warehouse)	Pre-engineered steel bldg demo,>12,500 SF
	Structure's Vol. Demolition (Warehouse)	
	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
	Transportation Cost Steel Drive	
	Subtotal	
	Equipment's Disposal Cost	
	Dismantling Cost	
	Equipment's Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Slab	
	Concrete Demolition	
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced
	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	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	04 Storage Shed	
	Structure's Demolition Cost	Building Demolition - Mixture of Types
	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	On Site Disposal
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	Concrete Demolition	Concrete Floor Demolition, 4" thick, reinforced
	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	
	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	

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Ref.	Description	Materials
	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
	Disposal Costs	On Site Disposal
	Subtotal	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	06 Truck Loading/Unloading Area	
	Structure's Demolition Cost	WILL BE GRADED WITH THE REMAINDER OF TH
	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	
	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	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Ref.	Description	Materials
	07 Equipment/Materials Storage Area	
	Structure's Demolition Cost	WILL BE GRADED WITH THE REMAINDER OF TH
	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	
	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	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	08 Potable Water Tank	
	Structure's Demolition Cost	Building Demolition - Steel
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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
	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	

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Ref.	Description	Materials
	09 Sewer Treatment Plant	
	Structure's Demolition Cost	Building Demolition - Steel
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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
	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
	10 Power Poles	
	Structure's Demolition Cost	Wood utility poles, 35'-45' high
	Structure's Demolition Cost	Wood cross arms, 4'-6' long
	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
	Disposal Cost Non Steel	
	Steel's Weight	
	Truck's Capacity	
	Haulage	
	Transportation Cost Steel Truck	
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	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	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Ref.	Description	Materials
	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	
	Equipment's Demolition Cost	Demo of elec transformer, 3 ph, 750kVA
	Dismantling Cost	
	Equipment's Vol. Demolished	
	Loading Costs	Hydraulic crane, 12 ton, with operator
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal
	Disposal Costs	
	Subtotal	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	12 Overhead Power Lines	
	Structure's Demolition Cost	Electrical demolition, #2 wire, from conduit
	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
	Disposal Cost Non Steel	
	Steel's Weight	
	Truck's Capacity	
	Haulage	
	Transportation Cost Steel Truck	
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	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	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Ref.	Description	Materials
	13 Buried Power Lines	
	Structure's Demolition Cost	Electrical demolition, #2 wire, from conduit
	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
	Disposal Cost Non Steel	
	Steel's Weight	
	Truck's Capacity	
	Haulage	
	Transportation Cost Steel Truck	
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	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	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	14 Rock Dust Silo	
	Structure's Demolition Cost	Silos, Selective Demolition, steel
	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
	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	
	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
	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	

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Ref.	Description	Materials
	15 Fuel & Oil Tanks	
	Structure's Demolition Cost	5000 to 12000 gal. abovegrnd steel tank rem
	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 and Disposal Cost All	Demolition debris, off-site haul and disposal
	Transportation Cost Steel Truck	
	Transportation Cost Steel Drive	
	Subtotal	
	Equipment Disposal Cost	
	Tank Removal	3000 to 5000 gal. undrgrnd steel tank remove
	Remove Sludge	3000 to 5000 gal. tank, sludge removal
	Tank Disposal	3000 to 5000 gal. tank, disposal, 100 mi RT
	Sludge Disposal	Dispose of sludge off site
	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	

Description	Materials
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	
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
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	
Concrete Cost	
Concrete Vol. Demolished	
Loading Costs	
Transportation Costs	
Disposal Costs	
Subtotal	
Total	

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Ref.	Description	Materials
	17 Reclaim Conveyor	
	Conveyor Demolition Cost	Building Demolition - Steel
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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	

Ref.	Description	Materials
	18 Conveyor to Loadout Bin	
	Structure's Demolition Cost (Conveyor 1)	Building Demolition - Steel
	Structure's Vol. Demolition (Conveyor 1)	
	Structure's Demolition Cost (Conveyor 1)	Building Demolition - Steel
	Structure's Vol. Demolition (Conveyor 1)	
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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
	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	

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Ref.	Description	Materials
	19 Crusher MCC Building	
	Structure's Demolition Cost	Building Demolition - Steel
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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	

Ref.	Description	Materials
	20 Truck Loadout	
	Structure's Demolition Cost (Loadout 1)	Building Demolition - Steel
	Structure's Vol. Demolition (Loadout 1)	
	Structure's Demolition Cost (Loadout 2)	Building Demolition - Steel
	Structure's Vol. Demolition (Loadout 2)	
	Dozer Trap Roof Demolition Cost	Building Demolition - Steel
	Dozer Trap Roof Volume	
	Stairway Demolition Cost	Building Demolition - Steel
	Stairway Volume	
	Steel's Weight	
	Truck's Capacity	
	Haulage	
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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
	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	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density
02 41 16.13 0020	0.27	CF	5	5	20					
02 41 16.13 0020	0.27	CF	20	20	18					
02 41 16.13 0020	0.27	CF	20	12	1					
02 41 16.13 0020	0.27	CF	10	3	1					
Scamp	6.00	Ton								480
02 41 16.17 2500	1.57	CY						207		
31 23 16.42 1300	2.21	CY								
31 23 23.20 1014	3.74	CY								
02 41 16.17 4200	11.40	CY								

Ref.	Description	Materials
	21 Refuse Conveyor	
	Conveyor Demolition Cost	Building Demolition - Steel
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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	

Ref.	Description	Materials
	22 Crusher/Screen Plant	
	Structure's Demolition Cost	Building Demolition - Steel
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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
	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	

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Ref.	Description	Materials
	23 Reclaim Escape Tunnel	
	Corrugated Steel	Building Demolition - Steel
	Escape Tunnel	Building Demolition - Steel
	Fan	Building Demolition - Steel
	Fan House	Building Demolition - Steel
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	Excavation and Backfill	
	Reclaim Tunnel	Excavation Bulk Bank 2 CY (322BL)
	Escape Tunnel	Excavation Bulk Bank 2 CY (322BL)
	Subtotal	
	Concrete Demolition	
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced
	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	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	24 Reclaim Feeder Gate	
	Structure's Demolition Cost	Fabricated steel demo, 121-500 lb
	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
	Transportation Cost Steel Drive	
	Subtotal	
	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	
	Foundation	
	Tube	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Ref.	Description	Materials
	26 Extended ROM Conveyor	
	Structure's Demolition Cost	Building Demolition - Steel
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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
	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	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	27 Refuse/Non-Coal Waste Pile	
	Structure's Demolition Cost	WILL BE GRADED WITH THE REMAINDER OF THE
	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	
	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	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Ref.	Description	Materials
	28 Electrical Grounding Field	
	Structure's Demolition Cost	Backhoe loader, 2 laborers, equip operator
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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	

Ref.	Description	Materials
	29 Sedimentation Pond Spillways	
	Pond #2 Barrel Excavation	Excavation Bulk Bank 2 CY (322BL)
	Subtotal	
	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"
	Pond #1 - 30" Emergency Riser	Demolition, CMP pipe, steel, 30"-36"
	Pond #2 - 12" Principal Riser	Demolition, CMP pipe, steel, 12"
	Pond #2 - 15" Emergency Riser	Demolition, CMP pipe, steel, 18"
	Pond #2 Barrel (SP2-1)	Demolition, CMP pipe, steel, 18"
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation & Disposal Costs	Demolition debris, off-site haul and disposal
	Disposal Costs	
	Subtotal	
	Total	

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Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume
31 23 16.42 0260	1.81	CY	165	1.5	3			
02 41 13.40 0180	17.65	LF	20					
02 41 13.40 0180	17.65	LF	19					
02 41 13.40 0110	2.60	LF	5					
02 41 13.40 0160	3.90	LF	6					
02 41 13.40 0160	3.90	LF	165					
Scamp	6.00	Ton						

Ref.	Description	Materials
	30 Existing ROM Conveyor	
	Structure's Demolition Cost	Building Demolition - Steel
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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
	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	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	31 Portal Closure	
	Canopy Demolition Cost	Building Demolition - Steel
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	Earthwork - North & South Breakouts	
	Cut and fill - North Breakout	Cut and fill common earth, 8" lift, 2 passes
	Cut and fill - South Breakout	Cut and fill common earth, 8" lift, 2 passes
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Portal Sealing	
	Seal Construction	Seal portals, materials
	Labor	Seal portals, labor
	Site preparation	Portal seal, site preparation crew
	Block retaining walls	Block wall, reinforced, 4" thick (2 each seal)
	Transportation Costs	Portal seal support, material haulage
	Disposal Costs	
	Subtotal	
	Total	

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Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume
02 41 16.13 0020	0.27	CF	16	16	10			
Scamp	6.00	Ton						
G1030 1100	7.00	CY						80
G1030 1100	7.00	CY						20
JennChem	4320.00	EA.						
JennChem	265.00	HR						
Crew B-1	1464.40	Day						
04 22 10.34 1500	8.50	SF			20	8.6		344
Classic Helicopters	11965.00	Job						

Ref.	Description	Materials
	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	
	Subtotal	
	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
	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	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	33 ROM Coal Staking Tube	
	Structure's Demolition Cost	Building Demolition - Steel
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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
	Concrete Cost	
	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	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Ref.	Description	Materials
	34 Mine MCC Building and Electrical Tower	
	MCC Bldg Demolition Cost	Pre-engineered steel bldg demo,>12,500 SF
	Elec Tower Demolition Cost	Torch cutting, steel, 1" thick plate
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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
	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	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	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	
	Equipment's Disposal Cost	
	Dismantling Cost	Mechanical Equipment Demolition, Heavy
	Equipment's Vol. Demolished	
	Loading Costs	
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal
	Disposal Costs	
	Subtotal	
	Concrete Demolition	
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	On Site Disposal
	Subtotal	
	Shot Crete	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Ref.	Description	Materials
	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
	Transportation Cost Steel Drive	
	Subtotal	
	Equipment's Disposal Cost	
	Dismantling Cost	Mechanical Equipment Demolition, Heavy
	Equipment's Vol. Demolished	
	Loading Costs	
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal
	Disposal Costs	
	Subtotal	
	Concrete Demolition	
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	On Site Disposal
	Subtotal	
	Shot Crete	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	37 Non-Potable Water Tanks	
	Structure's Demolition Cost	5000 to 12000 gal. abovegrnd steel tank removal
	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
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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
	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	

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Ref.	Description	Materials
	38 Powder and Cap Magazines	
	Structure's Demolition Cost	Mechanical Equipment Demolition, Heavy
	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
	Transportation Cost Steel Drive	
	Subtotal	
	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	

Ref.	Description	Materials
	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	
	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
	Transportation and Disposal	Demolition debris, off-site haul and disposal
	Subtotal	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Ref.	Description	Materials
	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
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced
	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	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	41 Loadout MCC Building	
	MCC Bldg Demolition Cost	Pre-engineered steel bldg demo,>12,500 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	
	Haulage	
	Transportation Cost Steel Truck	Demolition debris, off-site haul and disposal
	Transportation Cost Steel Drive	
	Disposal Cost Steel	
	Subtotal	
	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
	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	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Ref.	Description	Materials
	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	
	Pavement Removal	Pavement Removal, bituminous, 4" to 6" thick
	Disposal Costs	On Site Disposal
	Subtotal	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	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
	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	

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Ref.	Description	Materials
	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
	Subtotal	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	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	
	Walls	
	Floor	
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforc
	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	

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Ref.	Description	Materials
	46 Emergency Reclaim Feeder Gate	
	Structure's Demolition Cost	Fabricated steel demo, 121-500 lb
	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
	Transportation Cost Steel Drive	
	Subtotal	
	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	
	Foundation	
	Tube	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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	

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Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
						12	EA.	816
						4	EA.	364
								1180
								0
						7	CY	1169
					1.3			
						9	CY	20
						9	CY	34
						9	CY	103
								1326
						17	CY	2839
					1.3	22	CY	
						22	CY	49
						22	CY	82
						22	CY	251
								3221
								5727

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PW of OI 65-3-57-1-1

Ref.	Description	Materials
	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	
	Equipment's Demolition Cost	Demo of elec transformer, 3 ph, 750kVA
	Dismantling Cost	
	Equipment's Vol. Demolished	
	Loading Costs	Hydraulic crane, 12 ton, with operator
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal
	Disposal Costs	
	Subtotal	
	Fence Demolition	Chain link removal, 8'-10' high
	Subtotal	
	Concrete Demolition	
	Concrete Cost	Concrete Floor Demolition, 6" thick, reinforced
	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
	Paved Mine Roads	
	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
	Disposal Costs	On Site Disposal
	Subtotal	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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City of St. George, Utah

Ref.	Description	Materials
	Culvert Demolition	
DC-1		Excavation Bulk Bank 2 CY (322BL)
DC-2		Excavation Bulk Bank 2 CY (322BL)
DC-3		Excavation Bulk Bank 2 CY (322BL)
DC-4		Excavation Bulk Bank 2 CY (322BL)
DC-5		Excavation Bulk Bank 2 CY (322BL)
DC-6		Excavation Bulk Bank 2 CY (322BL)
DC-7		Excavation Bulk Bank 2 CY (322BL)
DC-8		Excavation Bulk Bank 2 CY (322BL)
DC-9		Excavation Bulk Bank 2 CY (322BL)
DC-10		Excavation Bulk Bank 2 CY (322BL)
DC-11		Excavation Bulk Bank 2 CY (322BL)
DC-12a		Excavation Bulk Bank 2 CY (322BL)
DC-12b		Excavation Bulk Bank 2 CY (322BL)
DC-12c		Excavation Bulk Bank 2 CY (322BL)
DC-12d		Excavation Bulk Bank 2 CY (322BL)
DC-13		PREVIOUSLY REMOVED
DC-14		Excavation Bulk Bank 2 CY (322BL)
DC-15		Excavation Bulk Bank 2 CY (322BL)
DC-16		Excavation Bulk Bank 2 CY (322BL)
DC-17		Excavation Bulk Bank 2 CY (322BL)
DC-18		Excavation Bulk Bank 2 CY (322BL)
UC-1		Excavation Bulk Bank 2 CY (322BL)
UC-1a		Excavation Bulk Bank 2 CY (322BL)
	Subtotal	
	Equipment's Disposal Cost	
	Dismantling Cost	
	Equipment's Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Demolition Cost 18" CMP	Demolition, CMP pipe, steel, 18"
	Demolition Cost 24" CMP	Demolition, CMP pipe, steel, 24"
	Demolition Cost 60" CMP	Demolition, CMP pipe, steel, 48-60"
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation & Disposal Costs	Demolition debris, off-site haul and disposal
	Disposal Costs	
	Subtotal	
	Total	

Ref.	Description	Materials
	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	
	Portal Sealing	
	Seal Construction	Seal portals, materials
	Labor	Seal portals, labor
	Site preparation	Portal seal, site preparation crew
	Block retaining walls	Block wall, reinforced, 4" thick (2 each sea
	Subtotal	
	Concrete Demolition	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Ref.	Description	Materials
	Visual Disconnect	
	Structure's Demolition Cost	Building Demolition - Steel
	Structure's Demolition Cost	Building Demolition - Steel
	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
	Transportation Cost Steel Drive	
	Subtotal	
	Equipment's Disposal Cost	
	Dismantling Cost	
	Equipment's Vol. Demolished	Mechanical Equipment Demolition, Heavy
	Loading Costs	
	Transportation & Disposal Cost Steel	Demolition debris, off-site haul and disposal
	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
	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	

Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight
02 41 16.13 0020	0.27	CF	20	30	8				
02 41 16.13 0020	0.27	CF	40	10	8				
Scamp	6.00	Ton							
23 05 05.10 3600	1225.00	Ton							1
Scamp	6.00	Ton							
02 41 16.17 2500	1.57	CY	4	6	0.5				
31 23 16.42 1300	2.21	CY							
31 23 23.20 1014	3.74	CY							
02 41 16.17 4200	11.40	CY							

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Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
			FT		4800	CF	1296
			FT		3200	CF	864
480			lb/CY		71	Ton	426
							2586
			Ton		3	Ton	3675
							3675
			FT		0.4	CY	1
				1.3	1	CY	
					1	CY	2
					1	CY	4
					1	CY	11
							18
							6279

Ref.	Description	Materials
	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
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced
	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	
	Concrete Cost	
	Concrete Vol. Demolished	
	Loading Costs	
	Transportation Costs	
	Disposal Costs	
	Subtotal	
	Total	

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Div. of Civ. & Engrg.

Lila Canyon Mine Reclamation Bond Estimate

Earthwork Costs

<i>Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Production Rate</i>	<i>Units</i>	<i>Production Time</i>	<i>Units</i>
Mine Site Earthwork Estimate						
Load and Haul Backfill						
631G (9-51)(2nd04)	79283	CY	393	CY/HR	201.7	HR
Spread, Compact, and Scarify Backfill						
D8, Track-mounted	79283	CY	1850	CY/Day	42.9	Day
825G (6-13)(4Q03)	79283	CY	4100	CY/Day	19.3	Day
Scarify subsoil	29.96	ac	240	MSF/Day	5.4	Day
Backfill, Grade, and Scarify Upper Road Area						
770 (20-11)(3Q03)	5000	CY	882	CY/Day	5.7	Day
988G EROPS (9-38)(3Q04)	5000	CY	1480	CY/Day	3.4	Day
D8, Track-mounted	5000	CY	1850	CY/Day	2.7	Day
Scarify subsoil	4.24	ac	240	MSF/Day	0.8	Day
Load, Haul, and Spread Topsoil - Main Area						
631G (9-51)(2nd04)	61086	CY	393	CY/HR	155.4	HR
D9R Semi-U EROPS (9-54 (2H04)	61086	CY	1850	CY/Day	33	Day
Load, Haul, and Spread Topsoil - Upper Road Area						
770 (20-11)(3Q03)	10000	CY	882	CY/Day	11.3	Day
988G EROPS (9-38)(3Q04)	10000	CY	1480	CY/Day	6.8	Day
D8, Track-mounted	10000	CY	1850	CY/Day	5.4	Day
Support						
Water Truck						
Subtotal						

Note: Includes reclamation of 26,000 CY of fill for the new shop and the new loadout, as well as 1.26 addition

<i>Materials/Equipment/Labor</i>	<i>Cost Reference RSMMeans Ref #</i>	<i>Unit Cost</i>	<i>Units</i>	<i>Quantity</i>
Self-propelled scraper, 34 CY, 500 HP	Crew B-33K	418.20	HR	201.7
Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	42.9
Sheepsfoot roller, 315 HP, 8" lifts, 2 passes	Crew B-10G	2313.60	Day	19.3
75 HP Dozer with scarifier	32 91 13.23 3100	5.85	MSF	1305
Off-highway rear dump truck, 40 ton, 10 MPH	Crew B-34F	2234.80	Day	5.7
Loader, 500 HP, wheel mounted, 5 CY cap	Crew B-14A	4306.40	Day	3.4
Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	2.7
75 HP Dozer with scarifier	32 91 13.23 3100	5.85	MSF	185
Self-propelled scraper, 34 CY, 500 HP	Crew B-33K	418.20	HR	155.4
Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	33
Off-highway rear dump truck, 40 ton, 10 MPH	Crew B-34F	2234.80	Day	11.3
Loader, 500 HP, wheel mounted, 5 CY cap	Crew B-14A	4306.40	Day	6.8
Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	5.4
5000 gallon water truck	Crew B-9A	2041.01	Day	16.0

al disturbed acres associated with those structures.

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<i>Cost</i>
\$84,351
\$127,756
\$44,652
\$7,634
\$12,738
\$14,642
\$8,041
\$1,082
\$64,988
\$98,274
\$25,253
\$29,284
\$16,081
\$32,656
\$567,433

Lila Canyon Mine Reclamation Bond Estimate Revegetation Costs

Ref.	Description	Materials
	Mine Site Revegetation Estimate	
	<i>Ground Preparation</i>	
	Pocking	Excavation Bulk Bank 2 CY (322BL)
	<i>Site Revegetation</i>	
	Mulch Material, Labor, and Equipment	Power mulcher, large, hay 1" deep
	Seeding Material	Lila Canyon Seed Mix (see below)
	Seeding Equipment and Labor	Hydroseeder (equipment and labor only)
	Fertilizer equipment, materials, & labor	Fertilizer, hydro spread, 1.5 lb/MSF
	Subtotal	
	Mine Site	
	Re-vegetate 25% of area	
	Subtotal	
	Total	

Seed mix cost based on the application rates provided
Seed prices downloaded October 2017 from greatbasinseed.com

Common Name
Grasses
Needle and Thread
Indian Ricegrass
Basin Wild Rye
Galleta
Bluebunch Wheatgrass
Slender Wheatgrass
Blue Gramma
Forbs
Blue Flax
Palmer penstemon
Globemallow
Indian Paintbrush
Fringed Sage
Shrubs
Wyoming Big Sage
Green Rabbitbrush
Fourwing Saltbush
Winterfat

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Shadscale
Cliffrose
Black Sage
10% increase

Means Reference Number	Unit Cost	Unit	Area	Volume	Weight	Density	Time
31 23 16.42 0260	1.81	CY	37.02	ac		340	CY/ac
32 91 13.16 0390	30.50	MSF	37.02				
Great Basin Seed	155.80	ac	37.02				
32 92 19.14 4600	22.00	MSF	37.02				
32 01 90.13 0180	5.00	MSF	37.02				

ed in Table 3.4/3.5 of the MRP
asinseeds.com

Seeding Rate (lb PLS/ac)	Unit Cost (\$/lb)	Mix Cost (\$/ac)
2.00	39.5	79.00
2.00	6.95	13.90
1.00	16.95	16.95
1.00	24.00	24.00
1.00	8.95	8.95
2.00	2.95	5.90
1.00	16.00	16.00
1.00	8.75	8.75
0.25	10.00	2.50
0.50	59.00	29.50
0.10	150.00	15.00
0.10	18.00	1.80
0.25	9.50	2.38
0.10	18.00	1.80
0.84	13.00	10.92
1.00	18.00	18.00

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PLANTING

Lila Canyon Mine
C0070013

Reclamation Bond Estimate

October 2017
Updated February 2019

1.00	9.00	9.00
1.00	38.00	38.00
0.25	15.95	3.99
Subtotal =		141.63
to account for PLS requirement =		14.16
Seed mix unit cost =		155.80

Number	Unit	Swell Factor	Quantity	Unit	Cost
			12586.8	CY	22782
	ac		1613	MSF	49197
	ac		37.00	AC	5764
	ac		1613	MSF	35486
	ac		1613	MSF	8065
					121,294
					30324
					30,324
					151,618

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