UtahAmerican Energy, Inc.

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

June 25, 2020

RECEIVED
JUN 30 2020
DIV OF OIL, GAS & MINING

Attn: Steve Christensen
Permit Supervisor

Re: Lila Canyon Mine, UtahAmerican Energy, Inc. C/007/013
L20-003 As-Built/Power Pole Task #6143

Dear Mr. Christensen

Attached you will find the clean copies for the submittal for additional power poles to the existing surface facility plan, as well as the As-Built Map for Pond #1. A rider increase to the bond is also included for the additional power poles and the bond has been escalated to 2023 numbers, as requested.
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

L20-003 As-Built/Power Poles	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
☐ ADD	☐ REPLACE	☐ REMOVE	Plate 5-2 As Built Surface Facilities
☐ ADD	☐ REPLACE	☐ REMOVE	Plate 1 of 1 As-Built Pond #1
☐ ADD	☐ REPLACE	☐ REMOVE	Bonding Calculations - Tab 10, Demo and Total tab.
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	

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

Lila Canyon Mine Reclamation Bond Estimate

Bonding Calculations

Direct Costs

Subtotal Demolition and Removal	$961,200.00	
Subtotal Backfilling and Grading	$567,433.00	
Subtotal Revegetation	$151,618.00	
Direct Costs in 2018 Dollars	**$1,680,251.00**	

Indirect Costs

Mob/Demob	$168,025.00	10.0%
Contingency	$84,013.00	5.0%
Engineering Redesign	$42,006.00	2.5%
Main Office Expense	$114,257.00	6.8%
Project Management Fee	$42,006.00	2.5%
Subtotal Indirect Costs 2018 Dollars	**$450,307.00**	**26.8%**
Total Cost	**$2,130,558.00**	
Escalation factor		0.0232
Number of years		4
Escalation	$204,703.00	
Total Reclamation Cost 2023 Dollars	**$2,335,261.00**	
Bond Amount (rounded to nearest $1,000) 2023 dollars	**$2,335,000.00**	
Bond Posted	$2,229,000.00	
Difference Between Posted Bond and Cost Estimate	**-$106,000.00**	

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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
02 41 16.13 0020	Building Demolition - Steel	0.27	CF	(see 02 41 16.13 5000)
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
02 41 16.17 2500	Concrete Wall/Floor Demo, 12" thick, reinforced	1.57	SF	(see 02 41 16.17 2600)
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	
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	
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. undrgrnd 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	
02 41 13.30 0100	Remove roadside delineator	49.35	EA.	Increased 200% per 02 41 13.30 4400
02 41 13.96 0600	Demo/Remove steps, 3 risers	94.50	EA.	
02 41 13.40 0240	Demolition, CMP end section, 60"	445.00	EA.	

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Lila Canyon Mine Reclamation Bond Estimate

Demolition and Removal Cost Summary

Structure/Item	Cost ($)
01 Office/Bathhouse	49,516
02 ROM Coal Stockpile	0
03 Shop/Warehouse	327,646
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	14,133
11 Electrical Transformers	4,961
12 Overhead Power Lines	2,952
13 Buried Power Lines	860
14 Rock Dust Silo	3,147
15 Fuel & Oil Tanks	8,143
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 Structures	1,583
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	37,698
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	36,390
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	63,372
Culvert Demolition	46,500
Lila Old Fan Portals	24,586
Visual Disconnect	6,279
Drop Box	145
Rain Gauges	303
TOTAL	961,200

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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 Flr	150	100	15		15000								15000	SF Flr	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													54	CY	616
	Steel's Weight																			
	Demo Steel Stairs	Demo/Remove steps, 3 risers	02 41 13.96 0600	94.50	EA.													4	EA	378
	Haulage																			
	Transportation and Disposal Cost All	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								486			lb/cy		608	Tons	3648
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			30646
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Load Conex Units	Hydraulic crane, 12 ton, with operator	Crew A-3H	1518.56	Day									1		Day				1519
	Haul Connex Units to SLC, UT	Haul Conex units offsite	01 52 13.20 0800	12.10	Mile										140	Miles		8	EA	13552
	Disposal Costs																			
	Subtotal																			15071
	Office Trailers	Haul Conex units offsite	01 52 13.20 0800	12.10	Mile	70	14	8							140	Miles		2	EA	3388
	Demolish Awning	Torch cutting, steel, 1" thick plate	02 41 19.27 0020	3.21	LF		14											5	EA	225
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton													1	Ton	6
	Subtotal																			3619
	Concrete Walkway Demolition	Concrete Floor Demolition, 4" thick, reinforced	02 41 16.17 0280	0.89	SF	28	6	0.33		168								168	SF	150
	Concrete Cost																			
	Concrete Vol. Demolished										2									
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY												1.3	2.6	CY	30
	Subtotal																			180
	Total																			49516

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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
	57 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 Drum																			
	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

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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 (Shop 1)	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 (Shop 1)										300000						0.3	3333	CY	
	Structure's Demolition Cost (Shop 2)	Pre-engineered steel bldg demo,>12,500 SF	13 05 05.50 0650	1.68	SF Flr	160	60	30		9600								9600	SF Flr	16128
	Structure's Vol. Demolition (Shop 2)										288000						0.3	3200	CY	
	Structure's Demolition Cost (Warehouse)	Pre-engineered steel bldg demo,>12,500 SF	13 05 05.50 0650	1.68	SF Flr	70	50	14		3500								3500	SF Flr	5880
	Structure's Vol. Demolition (Warehouse)										49000						0.3	544	CY	
	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		1568	Ton	9408
	Transportation Cost Steel Drive																			
																				0
	Subtotal																			56616
	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		Day				1519
	Haul Connex Units to SLC, UT	Haul Conex units offsite	01 52 13.20 0800	12.10	Mile										140	Miles		10	EA	16940
	Disposal Costs																			
	Subtotal																			18459
	Slab																			
	Concrete Demolition					420	250	1			3889				105000	SF				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2500	1.57	SF													105000	SF	164850
	Concrete Vol. Demolished																1.3	5056	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													5056	CY	11174
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													5056	CY	18909
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													5056	CY	57638
	Subtotal																			252571
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			327646

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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 0260	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

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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
	55 Employee Parking																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel 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 5050	8.80	SY			0.33		24,200						SF		8467	SY	82972
	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

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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 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																			
	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

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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 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

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JUL 08 2020

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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
	UP Potable Water Tank																			
	Structure's Demolition Cost	Building Demolition - Steel	02 41 16.13 6020	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																			
	Haulage																			
	Transportation and Disposal Cost All	Demolition debris, offsite haul and disposal	Scamp	6.00	Ton								1.05			1.05/SF		0.45	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																			
	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																1.5			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1350	2.21	CY													146		323
	Transportation Costs	12 C.Y (15 Ton) Dump Truck 1/2 mil. Trip	31 23 23.20 1614	3.74	CY													146		546
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.49	CY													146		1664
	Subtotal																			2783
	Total																			3741

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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								450			Bldg		5	Ton	32
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			518
	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 C.Y.(16 Ton) Dump Truck 1/2 mil. Trip	31 22 23.20 1014	3.24	CY													7		24
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													7		80
	Subtotal																			371
	Total																			887

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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.										18	EA.		18	EA.	6660
	Structure's Demolition Cost	Wood cross arms, 4'-6' long	02 41 13.80 0300	136.00	EA.										18	EA.		18	EA.	2448
	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																			14133
	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																			14133

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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																			
	Pulldre's Weight (exclude shell)																			
	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 1510	1700.00	EA.										2			2	EA.	3400
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs	Hydraulic crane, 12 ton, with operator	Crew A-3H	1518.56	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

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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	3226									3			9680	FT	2648
	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								291			lb/MF		9.67	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																			2652
	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																			2652

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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
	Steel Sled for Cable Protection	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	20	8	1			160							160	CF	43
	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		0.54	Ton	3
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			
	Subtotal																			860
	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																			860

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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 Site																			
	Structure's Demolition Cost	Silos, Selective Demolition, steel	13 05 05.60 0050	2600.00	EA										1	EA		1	Ea	2600
	Structure's Vol. Demolition																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Demolition debris, offsite haul and disposal	Scramp	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																			2624
	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	1.52	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 1900	2.21	CY													12	CY	27
	Transportation Costs	12 CY (16 Ton) Dump Truck 10 mil. Trip	31 23 23.20 1014	3.74	CY													12	CY	45
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.42	CY													12	CY	137
	Subtotal																			223
	Total																			3147

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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 & Oil Tanks																			
	Structure's Demolition Cost	5000 to 12000 gal. abovegrnd steel tank removal	1305 05.75 0530	1625.00	EA.													1	EA.	1625
	Structure's Demolition Cost																			
	Calcium Chloride Tank	Building Demolition - Steel	02 41 16.13 0020	0.27	CF			30	6		848							848	CF	229
	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							2				Ton		4.00	Ton	24
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			1878
	Equipment Disposal Cost																			
	Tank Removal	3000 to 5000 gal. undrgrnd steel tank removal	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																			8143

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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	CY	2758
Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													1248	CY	4668
Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													1248	CY	14227
Subtotal																			23160
Concrete Demolition																			
Concrete Cost																			
Concrete Vol. Demolished																			
Loading Costs																			
Transportation Costs																			
Disposal Costs																			
Subtotal																			
Total																			23160

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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	3402
	Structure's Vol. Demolition																1.3	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, offsite haul and disposal.	Scrap	6.00	Ton								450			B/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

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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
	16 Conveyor to Loadout Bin																			
	Structure's Demolition Cost (Conveyor 1)	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	230	6	6								FT		8280	CF	2236
	Structure's Vol. Demolition (Conveyor 1)																0.3	92	CY	
	Structure's Demolition Cost (Conveyor 1)	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	350	4	4								FT		5600	CF	1512
	Structure's Vol. Demolition (Conveyor 1)																0.3	62	CY	
	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		37	Ton	222
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			3970
	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																			4341

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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								450			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																			
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			364

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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 (Loadout 1)	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	5	5	20							500	CF		500	CF	135
	Structure's Vol. Demolition (Loadout 1)																0.3	6	CY	
	Structure's Demolition Cost (Loadout 2)	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	20	20	18							7200	CF		7200	CF	1944
	Structure's Vol. Demolition (Loadout 2)																0.3	80	CY	
	Dozer Trap Roof Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	20	12	1							240	CF		240	CF	65
	Dozer Trap Roof Volume																0.3	3	CY	
	Stairway Demolition Cost	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	10	3	1							30	CF		30	CF	8
	Stairway Volume																0.3	0.3	CY	
	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		21	Ton	126
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			2278
	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						207							207	CY	325
	Concrete Vol. Demolished																1.3	269	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													269	CY	594
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rod. Trip	31 23 23.20 1014	3.74	CY													269	CY	1006
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													269	CY	3067
	Subtotal																			4992
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			7270

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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, offsite haul and disposal	Scrap	6.00	Ton								480			BUCY		4	Ton	45
	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

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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								450			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																1.3			
	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 rnd. 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

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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 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						1357							1357	CF	366
	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																0.2	219	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 (22200)	31 23 16.42 0260	1.81	CY	310	14	10								FT		1615	CY	3285
																				0
	Escape Tunnel	Excavation Bulk Bank 2 CY (22200)	31 23 16.42 0260	1.81	CY	220	4	10										461	CY	871
																				0
	Subtotal																			4156
	Concrete Demolition																			
	Concrete Cost	Concrete Wall/Floor Demo. 12" thick, reinforced	02 41 16.17 2000	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	10 CY (15 Ton) Dump Truck 1/2 rnd. Trip	31 23 23.20 1014	3.74	CY													26	CY	97
	Disposal Costs	On Site Disposal	02 41 16.17 4000	11.40	CY													26	CY	296
	Subtotal																			481
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			12851

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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	05.05.05.10.0340	68.05	EA.													2	EA.	136
	Structure's Vol. Demolition																			
	Rubble's Weight (less/bulk 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, offsite haul and disposal	Ricamp	6.00	Ton	3	3						20.4			lb/SF		0.15	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																			
	Concrete Demolition																			
	Foundation																			
	Tube																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			137

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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 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								4.83			BCY		20	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	15	15	1							2			7	CY	11
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21														5	CY	10
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 load, Trip	31 23 23.20 1014	3.74	CY													5	CY	34
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.49	CY													5	CY	103
	Subtotal																			158
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			3258

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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													1	Ton	6
	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

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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 Structures																			
	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
	Catwalk to Pond Spillway	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	60	3	3			540							540	CF	146
	Dismantling Cost																			
	Equipment's Vol. Demolished										20									
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton								0.2				0.3	1.2	Tons	7
	Subtotal																			153
	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																			1583

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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 Existing RCM 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																			
	Deposit Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Demolition debris, offsite haul and dispostal	Scrap	6.00	Ton								460			InCY		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 1000	2.21														83	CY	183
	Transportation Costs	12 CY (16 Ton) Dump Truck 10 mi. 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	945
	Subtotal																			1539
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			6432

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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	0.37	CF		16	16	10						8	EA		10480	CF	5500
	Structure's Vol. Demolition																0.3	226	CY	
	Rubble's Weight (include 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, offsite haul and disposal	Scamp	6.00	Ton								480			lb/CY		56	Ton	336
	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					CY		80	CY	560
	Cut and fill - South Breakout	Cut and fill common earth, 8" lift, 2 passes	G1030 1100	7.00	CY						20					CY		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	255.00	HR									4		HR		32	HR	8163
	Site preparation	Portal seal, site preparation crew	Crew B-1	1414.40	Day									1		Day		8	Day	11315
	Block retaining walls	Block wall, reinforced, 4" thick (2 each seal)	04 22 10.34 1020	8.55	SF		20	8.4		344					16	EA		5504	SF	46764
	Transportation Costs	Portal seal support, material haulage	Clifford Helicopters	11265.00	Job										1	Job		1	Job	11265
	Disposal Costs																			
	Subtotal																			
	Total																			83312

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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	1.51	CY						15							15	CY	24
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 2CY	31 23 16.42 1300	2.21														20	CY	44
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rnd. 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

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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	29							CF		25133	CF	6785
	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, offsite haul and disposal	Scamp	6.00	Ton								450			loCY		67	Ton	402
	Transportation Cost Steel Drive																			
	Disposal Cost Steel																			0
	Subtotal																			7187
	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	24	24	1								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 hol. 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

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

Reclamation Bond Estimate

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 0550	1.68	SF Flr	30.5	12	9					486			lb/CY	0.3	366	SF Flr	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													17	Ton	102
	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										7	CY	15
	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																			172
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			1595

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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 00 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	Bulkhp	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 2000	1.57	SF	20	20	0.5		400						SF		400	SF	628
	Concrete Vol. Demolished																			
	Loading Costs																		CY	0
	Transportation Costs																		CY	0
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY						7.4						1.3	10	CY	110
	Subtotal																			738
	Slab Crete																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			37668

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JUL 08 2020

Div. of Oil, Gas & Mining

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 Pad-Backup Fan Pwr Cntr	Concrete Floor Demolition, 6" thick, reinforced	02 41 16.17 0420	1.11	SF	6	12	0.5		72						SF		72	SF	80
	Loading Costs																		CY	0
	Transportation Costs																		CY	0
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY						8.7						1.3	11	CY	130
	Subtotal																			837
	Shot Crete																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			37698

INCORPORATED
JUL 0 8 2020
Div. of Oil, Gas & Mining

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	10000 to 12000 gal. aboveground steel tank removal	1355 95 75 6530	1825.00	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																			
	Steels Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation and Disposal Cost All	Demolition debris, lifeds haul and disposal	Scemp	6.00	Ton							2				Ton		2.50	Ton	12
	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																			
	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		322
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 hrs. 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																			2782
	Total																			7670

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JUL 08 2020

Div. of Oil, Gas & Mining

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
	Sit 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

INCORPORATED
JUL 08 2020
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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
	16 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

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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	1.37	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 (15 Ton) Dump Truck 1/2 rnd. Trip	31 23 23.20 1014	3.74	CY													4	CY	15
	Disposal Costs	On Site Disposal	02 41 16.17 4020	11.40	CY													4	CY	46
	Subtotal																			73
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			73

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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 Flr	16	8	8										128	SF Flr	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										2	CY	4
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21														3	CY	7
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 rnd. Trip	31 23 23.20 1014	3.74	CY													3	CY	11
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													3	CY	34
	Subtotal																			56
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			289

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JUL 08 2020

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Reclamation Bond Estimate

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																			
	Wooden Shed Demolition Cost	Building Demolition - Mixture of Types	02 41 16.13 0100	0.40	CF	8	8	8			512				4			512	CF	819
	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	On Site Disposal	02 41 16.17 4200	11.40	CY						19				4		0.3	22.8	CY	260
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Drive																			
	Subtotal																			1079
	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																			36390

INCORPORATED
JUL 08 2020
Div. of Oil, Gas & Mining

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	348
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1000	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	11.45	CY													289	CY	3305
	Subtotal																			5374
	Total																			5364

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JUL 08 2020

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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 (less Sub. 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

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JUL 08 2020

Div. of Oil, Gas & Mining

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					16	10	0.67				5				CY				
	Walls					56	10	0.67				25				CY				
	Floor					52	12	1				23				CY				
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinfo	02 41 16.17 0500	1.57	CY							63				CY		63	CY	63
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													69	CY	152
	Transportation Costs	12 CY (15 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																			1260
	Total																			1260

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JUL 08 2020

Div. of Oil, Gas & Mining

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
	4ft Emergency Pedarm Feeder Gate																			
	Structure's Demolition Cost	Fabricated steel demo 1214-500 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		0.01	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																			
	Concrete Demolition																			
	Foundation																			
	Tube																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Total																			69

INCORPORATED

JUL 08 2020

Div. of Oil, Gas & Mining

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
	47 Gantry Lift Assembly																			
	Structure's Demolition Cost	Fabricated steel demo. 121-500 lb	05 05 05.10 0350	68.00	EA													12	EA	816
	Structure's Demolition Cost	Fabricated steel demo. 501-1000 lb	02 41 16.27 0020	89.00	EA													4	EA	356
	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																			1172
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			0
	Concrete Demolition																			
	Footings	Concrete, Selective Demo, Reinf 1-2% of X Sec	03 05 05.10 0060	167.00	CY		80	1.33	1.75		186							7	CY	1169
	Concrete Vol. Demolished																1.3			
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													9	CY	20
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 mil. 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																			1326
	Concrete Demolition																			
	Foundation	Concrete, Selective Demo, Reinf 1-2% of X Sec	03 05 05.10 0060	167.00	CY		85.33	4	1.33		454							17	CY	2839
	Tube																			
	Concrete Cost																			
	Concrete Vol. Demolished																1.3	22	CY	
	Loading Costs	Front End Loader 3CY	31 23 16.42 1300	2.21	CY													22	CY	49
	Transportation Costs	12 CY (16 Ton) Dump Truck 1/2 mil. Trip	31 23 23.20 1014	3.74	CY													22	CY	83
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY													22	CY	251
	Subtotal																			3221
	Total																			5727

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JUL 08 2020

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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																			
	Steels 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	1518.54	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										FT		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 (15 Ton) Dump Truck 10 mil. Trip	31 23 23.20 1014	3.74	CY													9.62	CY	36
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.43	CY													9.62	CY	110
	Subtotal																			611
	Total																			8476

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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
	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	02 41 13.17 5050	9.80	SY	1932	24	0.5		46368						SF		5152	SY	50490
	Disposal Costs	On Site Disposal	02 41 16.17 4200	11.40	CY						859					CY	1.3	1117	CY	12734
	Remove Traffic Mirror	Remove roadside delineator	02 41 13.30 0100	49.35	EA.										3	EA		3	EA	148
	Subtotal																			63372
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			63372

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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		360	5	6								FT		400	CY	724
	Subtotal																			2019
	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"	02 41 13.40 0160	3.90	LF	402							15	lb/ft		FT		402	FT	1568
	Demolition Cost 24" CMP	Demolition, CMP pipe, steel, 24"	02 41 13.40 0170	14.70	LF	2151							19	lb/ft		FT		2151	FT	31620
	Demolition Cost 60" CMP	Demolition, CMP pipe, steel, 48-60"	24 41 13.40 0190	22.00	LF	480							103	lb/ft				480	FT	10560
	Culvert Trash Rack Demo	Demolition, CMP end section, 60"	02 41 13.40 0240	445.00	EA.													1	EA	445
	Loading Costs																			
	Transportation & Disposal Costs	Demolition debris, off-site haul and disposal	Scamp	6.00	Ton							96339	lb					48	Tons	288
	Disposal Costs																			
	Subtotal																			44481
	Total																			46500

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Lila Canyon Mine
C0070013

Reclamation Bond Estimate

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	4640
	Labor	Seal portals, labor	JennChem	265.00	HR									8		HR		16	HR	4240
	Site preparation	Portal seal, site preparation crew	Crew B-1	1664.40	Day									2		Day		4	Day	5488
	Block retaining walls	Block wall, reinforced, 4" thick (2 each side	04 22 10 34 1500	6.50	SF		20	8.6		344					2			688	SF	5488
	Subtotal																			24856
	Concrete Demolition																			
	Concrete Cost																			
	Concrete Vol. Demolished																			
	Loading Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Total																			24856

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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								450			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	22 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 rnd. 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

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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 2000	1.57	CY	2	2	3.44			2					CY		2	CY	2
	Concrete Cost	Concrete Wall/Floor Demo, 12" thick, reinforced	02 41 16.17 2000	1.57	CY	4	4	1.1			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 (15 Ton) Dump Truck 1/2 rolling Tire	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

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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
	Rain Gauges																			
	Rain Gauge Removal	Remove Rain Gauges	Crew B-1	1464.40	Day										2	EA		0.2	Day	293
	Steel Walkway Removal	Building Demolition - Steel	02 41 16.13 0020	0.27	CF	10	3	1										30	CF	8
	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													0.3	Ton	2
	Transportation Cost Steel Drive																			
	Subtotal																			303
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transportation & Disposal Cost Steel																			
	Disposal Costs																			
	Subtotal																			0
	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																			0
	Total																			303

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Lila Canyon Mine Reclamation Bond Estimate

Earthwork Costs

Description	Quantity	Units	Production Rate	Units	Production Time	Units	Materials/Equipment/Labor	Cost Reference RSMeans Ref #	Unit Cost	Units	Quantity	Cost
Mine Site Earthwork Estimate												
Load and Haul Backfill												
631G (9-51)(2nd04)	79283	CY	393	CY/HR	201.7	HR	Self-propelled scraper, 34 CY, 500 HP	Crew B-33K	418.20	HR	201.7	$84,351
Spread, Compact, and Scarify Backfill												
D8, Track-mounted	79283	CY	1850	CY/Day	42.9	Day	Dozer, 300 HP, 50' haul, sandy clay and loam	Crew B-10M	2978.00	Day	42.9	$127,756
825G (6-13)(4Q03)	79283	CY	4100	CY/Day	19.3	Day	Sheepsfoot roller, 315 HP, 8" lifts, 2 passes	Crew B-10G	2313.60	Day	19.3	$44,652
Scarify subsoil	29.96	ac	240	MSF/Day	5.4	Day	75 HP Dozer with scarifier	32 91 13.23 3100	5.85	MSF	1305	$7,634
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												**$567,433**

Note: Includes reclamation of 26,000 CY of fill for the new shop and the new loadout, as well as 1.26 additional disturbed acres associated with those structures.

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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															
	Ground Preparation															
	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
	Site Revegetation															
	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**
	Mine Site															
	Re-revegetate 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

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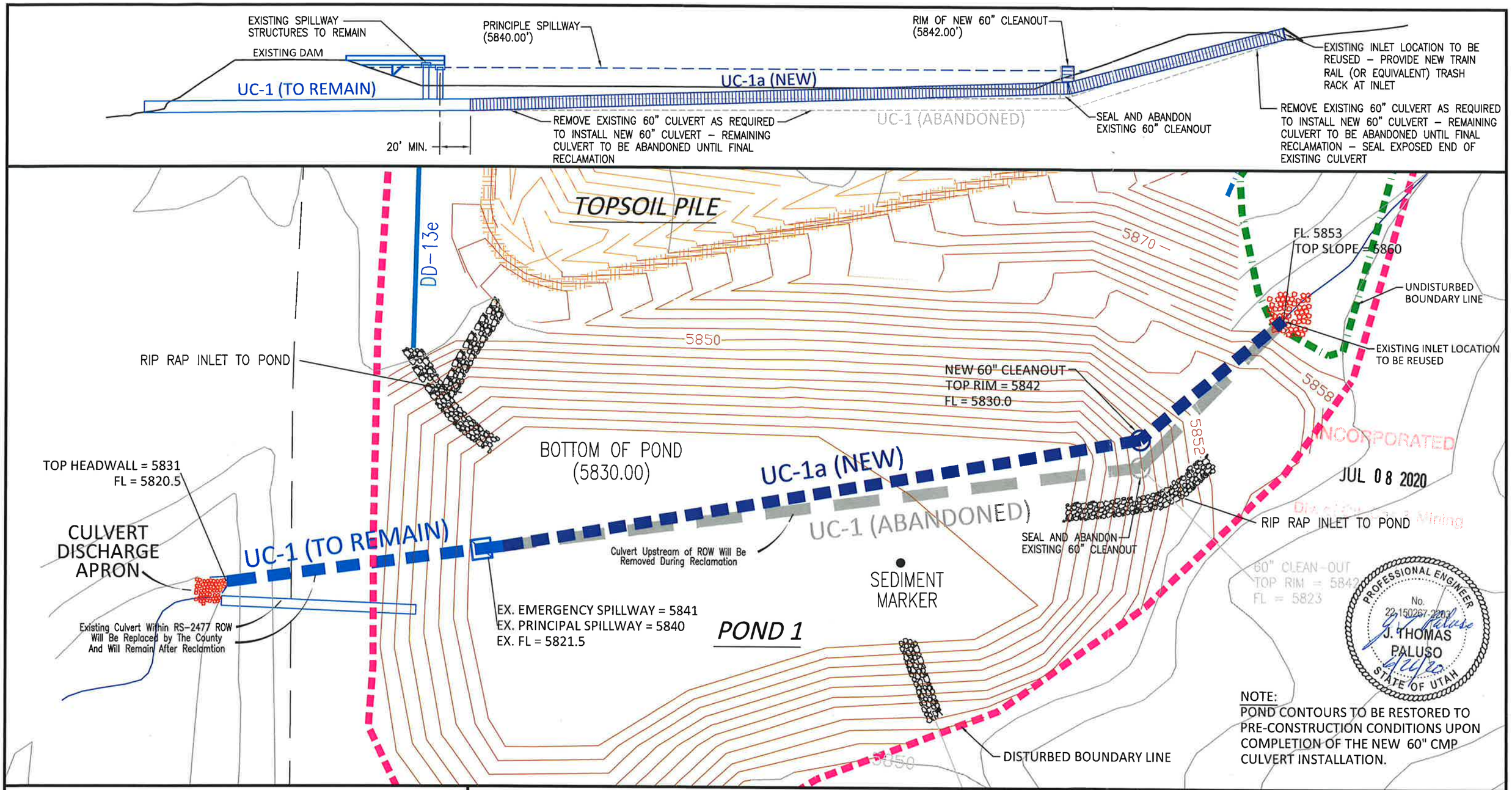


LEGEND

- EXISTING 60" CULVERT TO REMAIN
- EXISTING 60" CULVERT TO BE ABANDONED
- NEW 60" CULVERT

NOTES:

1. ABANDONED 60" CULVERT TO REMAIN UNTIL FINAL RECLAMATION, AT WHICH TIME IT SHALL BE REMOVED PER THE APPROVED MRP.
2. THE NEW 60" CULVERT IS TEMPORARY AND SHALL BE REMOVED UPON FINAL RECLAMATION.
3. THE NEW CULVERT SHALL TIE-IN TO EXISTING CULVERT UPSTREAM FROM EXISTING SPILLWAY STRUCTURE.
4. NEW 60" CULVERT LOCATION SHOWN IS THE PROPOSED LOCATION. CERTIFIED AS-BUILT DRAWINGS SHALL BE PROVIDED UPON COMPLETION OF PROJECT.

UtahAmerican Energy, Inc.
794 NORTH "C" CANYON ROAD, EAST CARBON, UTAH 84520
P.O. BOX 910, EAST CARBON, UTAH 84520
PHONE: (435) 888-4000 FAX: (435) 888-4002

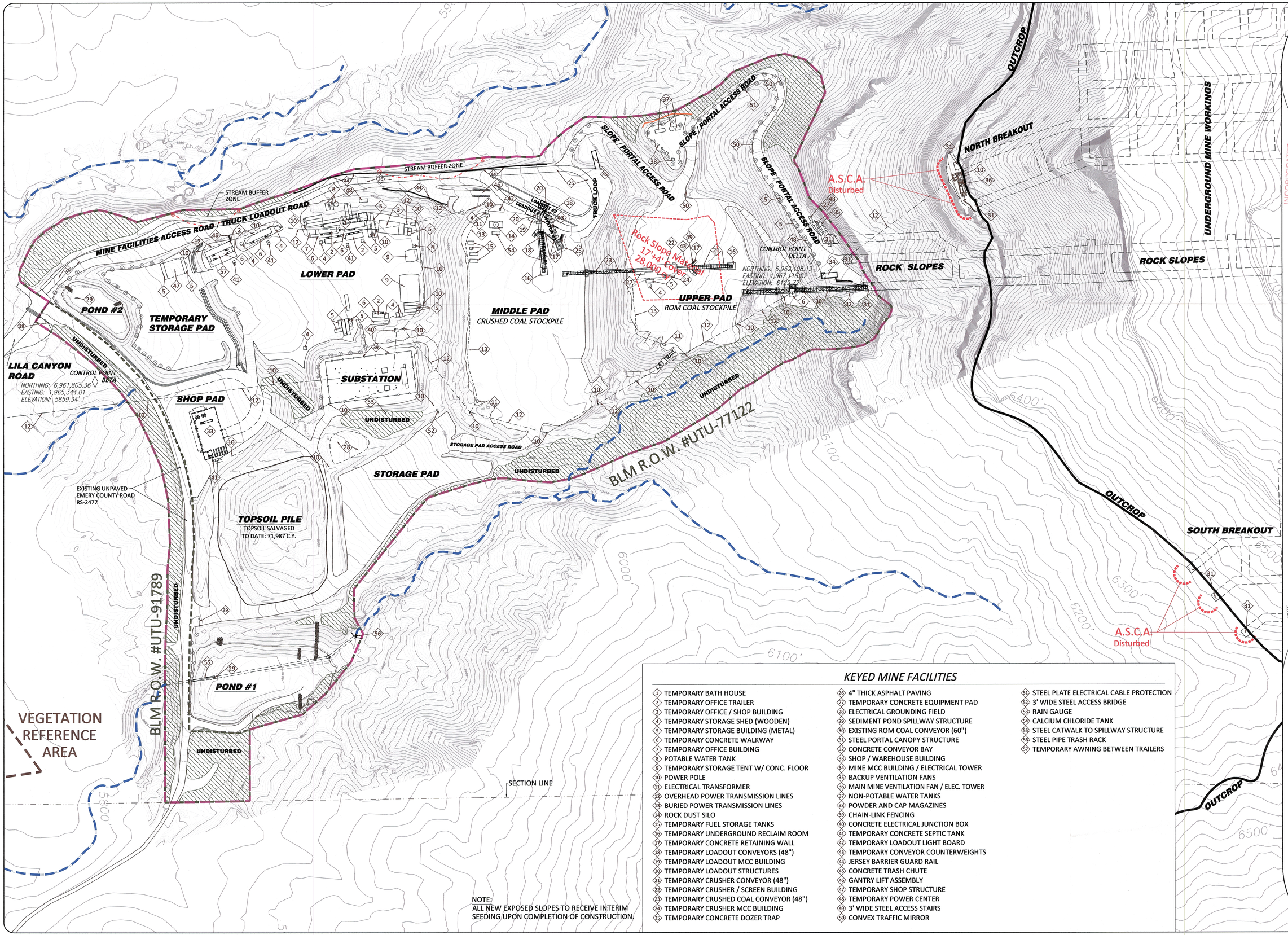
AS-BUILT CULVERT REVISION

LILA CANYON MINE
23415 North Lila Canyon Road
Green River, Utah 84525

MSHA MINE ID # 42-02241

DRAWN BY	PJ	SCALE	1" = 40'
APPROVED BY	KM	DATE	1 MAY 2020
SHEET			PLATE #1 of 1

G:\Current Drawings\MRP Maps\Lila Canyon\Pond 1 New Culvert\New Pond 1 Culvert.dwg, Culvert As-Built, 5/1/2020 8:26:45 AM



NOTE:
ALL NEW EXPOSED SLOPES TO RECEIVE INTERIM SEEDING UPON COMPLETION OF CONSTRUCTION.

KEYED MINE FACILITIES

1. TEMPORARY BATH HOUSE
2. TEMPORARY OFFICE TRAILER
3. TEMPORARY OFFICE / SHOP BUILDING
4. TEMPORARY STORAGE SHED (WOODEN)
5. TEMPORARY STORAGE BUILDING (METAL)
6. TEMPORARY CONCRETE WALKWAY
7. TEMPORARY OFFICE BUILDING
8. POTABLE WATER TANK
9. TEMPORARY STORAGE TENT W/ CONC. FLOOR
10. POWER POLE
11. ELECTRICAL TRANSFORMER
12. OVERHEAD POWER TRANSMISSION LINES
13. BURIED POWER TRANSMISSION LINES
14. ROCK DUST SILO
15. TEMPORARY FUEL STORAGE TANKS
16. TEMPORARY UNDERGROUND RECLAIM ROOM
17. TEMPORARY CONCRETE RETAINING WALL
18. TEMPORARY LOADOUT CONVEYORS (48")
19. TEMPORARY LOADOUT MCC BUILDING
20. TEMPORARY LOADOUT STRUCTURES
21. TEMPORARY CRUSHER CONVEYOR (48")
22. TEMPORARY CRUSHER / SCREEN BUILDING
23. TEMPORARY CRUSHED COAL CONVEYOR (48")
24. TEMPORARY CRUSHER MCC BUILDING
25. TEMPORARY CONCRETE DOZER TRAP
26. 4" THICK ASPHALT PAVING
27. TEMPORARY CONCRETE EQUIPMENT PAD
28. ELECTRICAL GROUNDING FIELD
29. SEDIMENT POND SPILLWAY STRUCTURE
30. EXISTING ROM COAL CONVEYOR (60")
31. STEEL PORTAL CANOPY STRUCTURE
32. CONCRETE CONVEYOR BAY
33. SHOP / WAREHOUSE BUILDING
34. MINE MCC BUILDING / ELECTRICAL TOWER
35. BACKUP VENTILATION FANS
36. MAIN MINE VENTILATION FAN / ELEC. TOWER
37. NON-POTABLE WATER TANKS
38. POWDER AND CAP MAGAZINES
39. CHAIN-LINK FENCING
40. CONCRETE ELECTRICAL JUNCTION BOX
41. TEMPORARY CONCRETE SEPTIC TANK
42. TEMPORARY LOADOUT LIGHT BOARD
43. TEMPORARY CONVEYOR COUNTERWEIGHTS
44. JERSEY BARRIER GUARD RAIL
45. CONCRETE TRASH CHUTE
46. GANTRY LIFT ASSEMBLY
47. TEMPORARY SHOP STRUCTURE
48. TEMPORARY POWER CENTER
49. 3' WIDE STEEL ACCESS STAIRS
50. CONVEX TRAFFIC MIRROR
51. STEEL PLATE ELECTRICAL CABLE PROTECTION
52. 3' WIDE STEEL ACCESS BRIDGE
53. RAIN GAUGE
54. CALCIUM CHLORIDE TANK
55. STEEL CATWALK TO SPILLWAY STRUCTURE
56. STEEL PIPE TRASH RACK
57. TEMPORARY AWNING BETWEEN TRAILERS

LEGEND:

- UNDISTURBED WITHIN THE DISTURBED AREA
- DISTURBED AREA BOUNDARY
- NATURAL DRAINAGE
- 6' HIGH CHAIN LINK FENCE
- INCIDENTAL ROCK DISTRIBUTION
- STREAM BUFFER ZONE SIGNS
- BLM R.O.W. BOUNDARY LINE
- TEMPORARY ROADWAYS
- STRUCTURAL FILL
- LEASE BOUNDARY LINES
- EXISTING INDEX CONTOURS (5' INTERVALS)
- NEW INDEX CONTOURS (5' INTERVALS)
- NEW INTERMEDIATE CONTOURS (1' INTERVALS)
- REMOVED INDEX CONTOURS (5' INTERVALS)

NOTES: 1. REFER TO PLATE 5-7A&B FOR CROSS-SECTIONS.

NOTE:
CONTROL POINT COORDINATE SYSTEM IS U.S. STATE PLANE 1983 – UTAH CENTRAL (4302) ADJUSTED TO SEA LEVEL.

N

Sec. 15, T 16 S, R14 E

50' 0' 100' 200'

REVISION DATE:

DATE:	BY:	DATE:	BY:	DATE:	BY:	DATE:	BY:
JAN. 2008	RJM	JUNE 2011	PJJ	JUNE 2017	PJJ	MAY 2020	PJJ
APR. 2009	PJJ	JAN. 2012	PJJ	APRIL 2018	PJJ		
DEC. 2009	PJJ	MAR. 2014	PJJ	JANUARY 2019	PJJ		
AUGUST 2010	PJJ	JULY 2014	PJJ	FEBRUARY 2019	PJJ		
SEPT. 2010	PJJ	DEC. 2015	PJJ	MAY 2019	PJJ		
APRIL 2011	PJJ	JUNE 2016	PJJ	DECEMBER 2019	PJJ		
MAY 2011	PJJ	NOV. 2016	PJJ	FEBRUARY 2020	PJJ		

LILA CANYON MINE

AS-BUILT SURFACE FACILITIES

DATE: APRIL 2016 | DESIGNED BY: R. Jay Marshall

SCALE: AS SHOWN | PLATE #: 5-2

INCORPORATED
JUL 08 2020
City of Huntington, Utah

PROFESSIONAL ENGINEER No. 155255 PHILLIP J. THOMAS PALUSO STATE OF UTAH