

0013

015/025 Incoming

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HIAWATHA COAL COMPANY

P.O. Box 1240
Huntington, UT 84528

(435) 687-5777
FAX (435) 687-5724

James D. Smith
Utah Division of Oil, Gas & Mining
1954 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

February 4, 2009

Re: **Chapter 8 Update, Included- Bond estimate**

Dear Mr. Smith:

As you are aware, it is becoming increasingly harder to obtain Surety Bonds. This will require companies to obtain other means or post some form of cash bond. For this reason, Hiawatha Coal Company is submitting a new Bond Estimate for review included in our Chapter 8 Update. Hiawatha Coal feels we are currently over bonded in the amount of \$318,000 for the Bear Canyon Mine Bond.

This estimate takes into consideration the RSMeans Site indexes for costs, which previously were ignored by the Division in their estimates to insure companies were not under bonded. This thought process increases bonds for our area approximately 25% more than is required. The Divisions own Technical Directive, which was agreed on by the Coal Operators eight years ago, states that the labor costs are derived from the RSMeans. RsMeans states that these "labor costs should be adjusted accordingly" utilizing these indexes.

If you have any further questions concerning this submittal, please feel free to contact me at (435) 687-5777.

Sincerely,



Cliff Baker
Environmental Coordinator

RECEIVED
FEB 12 2009
DIV. OF OIL, GAS & MINING

File in: 015 0015 2009 Incoming

Refer to:

- Confidential
- Shelf
- Expandable

Date: 2/20/09 For additional information

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change New Permit Renewal Exploration Bond Release Transfer

Permittee: HIAWATHA COAL CO.

Mine: BEAR CANYON MINE

Permit Number: ACT/015/025

Title: Chapter 8 Update

Description, Include reason for application and timing required to implement:
include a up to date and accurate bond estimate

Instructions: If you answer yes to any of the first eight (gray) questions, this application may require Public Notice publication.

- Yes No 1. Change in the size of the Permit Area? Acres: Disturbed Area: increase decrease.
- Yes No 2. Is the application submitted as a result of a Division Order? DO#
- Yes No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes No 4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes No 6. Does the application require or include public notice publication?
- Yes No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes No 9. Is the application submitted as a result of a Violation? NOV #
- Yes No 10. Is the application submitted as a result of other laws or regulations or policies?

Explain: _____

- Yes No 11. Does the application affect the surface landowner or change the post mining land use?
- Yes No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes No 13. Does the application require or include collection and reporting of any baseline information?
- Yes No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes No 15. Does the application require or include soil removal, storage or placement?
- Yes No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes No 17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes No 18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes No 19. Does the application require or include certified designs, maps or calculation?
- Yes No 20. Does the application require or include subsidence control or monitoring?
- Yes No 21. Have reclamation costs for bonding been provided?
- Yes No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes No 23. Does the application affect permits issued by other agencies or permits issued to other entities?

Please attach four (4) review copies of the application. If the mine is on or adjacent to Forest Service land please submit five (5) copies, thank you. (These numbers include a copy for the Price Field Office)

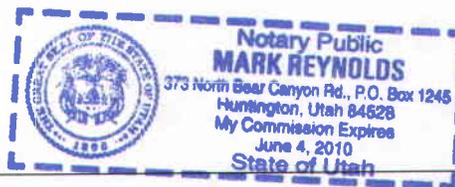
I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

N. Finley
Print Name

N. Finley V.P. 2-05-09
Sign Name, Position, Date

Subscribed and sworn to before me this 5 day of February, 2009

Mark Reynolds
Notary Public
My commission Expires: 6-4, 2011
Attest: State of Utah) ss:
County of Beaver



<p>For Office Use Only:</p>	<p>Assigned Tracking Number:</p>	<p>Received by Oil, Gas & Mining</p> <p style="text-align: center; color: red; font-weight: bold; font-size: 1.2em;">RECEIVED</p> <p style="text-align: center; color: red; font-weight: bold; font-size: 1.2em;">FEB 12 2009</p> <p style="text-align: center; color: red; font-weight: bold; font-size: 1.2em;">DIV. OF OIL, GAS & MINING</p>
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File in:

- Confidential
- Shelf
- Expandable

Refer to Record No. 0013 Date 02/04/2009
 In C 0150025, 2007, Incoming
 For additional information

Bonding Calculations
 Bear Canyon Mine

Bond Summary

Direct Costs

Subtotal Demolition and Removal	\$305,564.00	
Subtotal Backfilling and Grading	\$230,471.00	
Subtotal Revegetation	\$416,174.00	
Direct Costs	\$952,209.00	

Indirect Costs

Mob/Demob	\$95,221.00	10.0%
Contingency	\$47,610.00	5.0%
Engineering Redesign	\$23,805.00	2.5%
Main Office Expense	\$64,750.00	6.8%
Project Mainagement Fee	\$23,805.00	2.5%
Subtotal Indirect Costs	\$255,191.00	26.8%

Total Cost	\$1,207,400.00	
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Escalation factor		0.032
Number of years		5
Escalation	\$205,950.00	

Reclamation Cost	\$1,413,350.00	
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Bond Amount (rounded to nearest \$1,000) 2013 dollars	\$1,413,000.00	
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Bond Posted 2005 dollars	\$1,825,000.00	
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Difference Between Cost Estimate and Bond	\$412,000.00	
Percent Difference	29.16%	

next midterm	4/2/2013	
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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	Corrected Costs
	Scale House 01																			15856
	Scalehouse Pavement 02																			6976
	Shower House 03																			26232
	Shop 04																			12398
	Machine Shop 05																			3273
	Tipple 07																			17684
	Substation 08																			11393
	Coal Storage Bin 09																			6838
	Lump Coal 10																			5576
	Coal Recovery Bin 11																			52
	Stack Bin 12																			1966
	WHR Surge Bin 13																			9551
	Lump Coal Storage Pad 15																			800
	Equipment Wash Pad 16																			165
	Transformer Pad Shop 17																			17
	Water Tanks 18																			1740
	Fuel Tanks 19																			2170
	Fuel Lines 20																			2949
	Fans 21																			2800
	Conveyor 22																			69299
	Bld Tank Seam 23																			259
	Septic Tanks 24																			453
	Culverts 25																			794
	Watchman Trailer 26																			133
	Cap and Powder Mag 27																			139
	Conveyor Tunnel 28																			2268
	Plug Well 29																			5000
	Seal Points 30																			93600
	Power Lines and Poles 32																			5763
	Total																			305694

Ref	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Scale House 01																				
	Structure's Demolition Cost	Mixed Materials Bld. Large	02 41 16 13 0100	0.31/CF		34	83	16								FT	0.3	45152/CF		10511	
	Rubble's Vol. Demolished												1.35			TON/CY		678/TON			
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel	Nelson Construction	Nelson Con.	7/TON																	4746
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				14927
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY		234	2	0.67								FT	1.3	12/CY		92	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CY																	
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				134
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY		234	4	0.67								FT	1.3	23/CY		177	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CY																	
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				23
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY		83	34	0.33								FT	1.3	34/CY		282	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CY																	
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				33
	Total																				16456

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
	Scallopouse Pavement 02																			
	Structure's Demolition Cost	Pavement removal (asphalt) 3 inch	02 41 13 17 5010	4.53/SY						1450						SY		1450 SY		5210
	Structure's Vol Demolished												1.35			YD	1.3	120 CY		
	Rubble's Weight (exclude steel)															TONCY		162 TON		
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	435.96/day											1	DAY		1 DAY		338
	Transportation Cost Non Steel Drive	Truck Driver, Heavy	Triv	\$47.35/HR											8	HR		8 HR		284
	Disposal Cost Non Steel	Nelson Construction	Nelson Con.	7/TON														162 TON		1134
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			6978
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			8278

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
	Structure Demolition Cost	Mixed Materials Bid Large	02 41 16 13 0100	0.31/CF		92	50	8								FT		36800	CF	8857
	Structure's Vol	Masonry Bid Large	02 41 16 13 0080	0.31/CF		92	50	8								FT	0.3	36800	CF	8853
	Structure's Vol Demolished												1.35			TON/CY		1104	TON	
	Rubber's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel	Nelson Construction	Nelson Con.	7/TON														1104	TON	7728
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			25148
	Concrete Demolition	Concrete demolition	ConcreteDemol	9.92/CY												FT		14	CY	108
	Demolition Cost					284		2	0.67								1.3	18	CY	14
	Concrete's Vol Demolished																	18	CY	14
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CY														18	CY	52
	Transportation Cost	12 CY (16 Ton) Dump Truck 12 m. md. trl	31 23 23 18 0320	3.73/CY														18	CY	0
	Disposal Costs																			0
	Subtotal																			174
	Concrete Demolition	Concrete demolition	ConcreteDemol	9.92/CY												FT		16	CY	123
	Demolition Cost					319		2	0.67								1.3	21	CY	16
	Concrete's Vol Demolished																	21	CY	16
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CY														21	CY	61
	Transportation Cost	12 CY (16 Ton) Dump Truck 12 m. md. trl	31 23 23 18 0320	3.73/CY														21	CY	0
	Disposal Costs																			0
	Subtotal																			200
	Concrete Demolition	Concrete demolition	ConcreteDemol	9.92/CY												FT		56	CY	431
	Demolition Cost					92		50	0.33								1.3	73	CY	56
	Concrete's Vol Demolished																	73	CY	211
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CY														73	CY	0
	Transportation Cost	12 CY (16 Ton) Dump Truck 12 m. md. trl	31 23 23 18 0320	3.73/CY														73	CY	0
	Disposal Costs																			0
	Subtotal																			698
	Concrete Demolition	Concrete demolition	ConcreteDemol	9.92/CY												FT		1	CY	8
	Demolition Cost					12		5.5	0.33								1.3	1	CY	1
	Concrete's Vol Demolished																	1	CY	1
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CY														1	CY	3
	Transportation Cost	12 CY (16 Ton) Dump Truck 12 m. md. trl	31 23 23 18 0320	3.73/CY														1	CY	0
	Disposal Costs																			0
	Subtotal																			12
	Total																			26232

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Shop 04																				
	Structure's Vol Demolished	Steel Bid, Large	02 41 16 13 0012	0.29/CF		40	93	14								FT		52080 CF		11720	
	Rubble's Weight (exclude steel)																				
	Trucks Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Trucks Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				11720
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				174
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.92/CF		198	4	0.67								FT		20 CF		154	
	Concrete's Vol Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CF																	
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				174
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.92/CF		286	2	0.67								FT		13 CF		100	
	Concrete's Vol Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CF																	
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				13
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.92/CF		40	93	0.33								FT		45 CF		346	
	Concrete's Vol Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CF																	
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				45
	Subtotal																				391
	Subtotal																				12898

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Machine Shop 05																				
	Structure's Demolition Cost	Steel Bid Large	02 41 16 13 0012	0.29/CF		30	45	10								FT		13500 CF		3039	
	Structure's Vol. Demolished																				
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				3039
	Equipment & Disposal Cost																				
	Dismantling Cost																				
	Equipment & Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CF		135	1	0.67								FT		3CF		23	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CF																	
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				28
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CF		150	2	0.67								FT		7CF		54	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CF																	
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				7
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CF		30	45	0.33								FT		17CF		131	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CF																	
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				17
	Total																				3273

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	
	Topsoil																				
	Structure's Demolition Cost																				
	Structure's Vol.	Steel Bid Large	02 41 16 13 0012	0.29/CF	CF	27	10	25								FT		6750/CF		1519	
	Structure's Vol.	Steel Bid Large	02 41 16 13 0012	0.29/CF	CF	27	20	17								FT		9180/CF		2066	
	Structure's Vol.	Steel Bid Large	02 41 16 13 0012	0.29/CF	CF	27	10	8								FT		2160/CF		486	
	Structure's Vol.	Steel Bid Large	02 41 16 13 0012	0.29/CF	CF	20	30	51								FT		30600/CF		6885	
	Structure's Vol.	Mixed Materials Bid Large	02 41 16 13 0100	0.3/CF	CF	12	20	10								TON/CY	0.3	2400/CF		559	
	Structure's Vol. Demolished												1.35					568/CY		767/TON	
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel	Nelson Construction	Nelson Con.		7 TON														767 TON	5369	
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																			14683	
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemot	9.92/CF	CF	2		1.5								EA		2/CY		15	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CF	CF																
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																			17	
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemot	9.92/CF	CF	3		2								EA		3/CY		23	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CF	CF																
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																			28	
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemot	9.92/CF	CF	27		0.29								EA		12/CY		92	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CF	CF																
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																			104	
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemot	9.92/CF	CF	20		0.29								EA		6/CY		46	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CF	CF																
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																			62	
	Total																			17094	

Ref	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Substation 08																				
	Structures Demolition Cost																				
		Torch Cutting Steel 1" plate	02 41 19 27 0020	1.28/LF		26.6										LF		27	LF	27	
		Torch Mounted Crane 1" bar	02 41 19 27 0040	1.79/EA											1	Day		0.8	DAY	1	
		Truck Mounted Crane 25 ton	01 54 33 60 2500	608.56/day											6.2	1HR		6.2	HR	2928	
		Eg. Op. Crane or Shovel (Eqty)		\$81.75/HR											0.77	2DAY		1.5	DAY	43	
		Truck dump 16 ton payload	01 54 33 20 5300	435.96/day											6.2	2HR		12.4	HR	4195	
		Truck Driver, Heavy	Triv	\$47.35/HR											6.2	2HR		12.4	HR	275	
		CLAB	Clab	\$47.05/HR																	
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																			7489	
	Equipment & Disposal Cost																				
	Dismantling Cost	Chain link remove 8'-10'	02 41 13 60 1700	3.43/LF		157									2	LF		314	LF	836	
	Equipment & Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Subtotal																			836	
	Transformers																				
	Equipment & Disposal Cost	Mechanical equipment heavy	25 05 05 10 3600	615/ton								6			EA			6	EA	2863	
	Dismantling Cost																				
	Equipment & Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Subtotal																			2863	
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY		19		19	0.5						2	FT		13	CY	100	
	Concrete's Vol. Demolished																	1.3	12	CY	
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.99/CY															1.7	CY	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. Tr	31 23 23 18 0320	3.73/CY															1.7	CY	
	Disposal Costs																			43	
	Subtotal																			162	
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY		30		9	0.5						1	FT		5	CY	38	
	Concrete's Vol. Demolished																	1.3	7	CY	
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.99/CY															7	CY	
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. Tr	31 23 23 18 0320	3.73/CY															7	CY	
	Disposal Costs																			20	
	Subtotal																			58	
	Total																			11393	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Coal Storage Bin 09																				
	Structural Demolition Cost																				
		Torch Cutting Steel 1" plate	02 41 19 27 0020	1.28/LE	LE	163.3								0.86	1	DAY		163.3	DAY	162	
		Torch Cutting Steel 1" bar	02 41 19 27 0040	1.79/EA	EA									0.86	1	DAY		0.71	DAY	162	
		Truck Mounted Crane 25 ton	01 54 33 60 2500	608.56/day	DAY									0.86	2	DAY		3.2	DAY	2603	
		Eq. Op. Crane or Shovel (Eqty)		\$61.75/HR	HR									3.3	2	HR		10.9	HR	388	
		Truck dump 16 ton payload	01 54 33 20 5300	435.96/day	DAY									3.3	2	HR		10.9	HR	388	
		Truck Driver, Heavy	TRV	\$47.35/HR	HR									3.3	2	HR		10.9	HR	239	
		CLAB	CLAB	\$47.05/HR	HR																
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck Drive																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				6425
	Equipment & Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	60		1	6												100
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CY	CY																13
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				113
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	3		3	1												8
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CY	CY																1
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				9
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	30		30	0.67												169
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CY	CY																22
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				191
	Subtotal																				6938

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Coal Recovery Bin 11																				
	Structure Demolition Cost																				
	Reinforcing Vol. Demolished																				
	Reinforcing Vol. (exclude steel)																				
	Truck's Capacity																				
	Truck's Capacity																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Handling																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				35
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				31
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	12	2.5	1							4EA		1.3	4CY		31	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY																			4
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				35
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	12	12	0.33							EA			2CY		15	
	Concrete's Vol. Demolished																				
	Loading Cost	Front end loader wheel 3 CY																			2
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				17
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				2
	Total																				82

Ref	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	WHR Surge Bin 13																				
	Structure's Demolition Cost																				
	Torch Cutting Steel 1" plate		02 41 19 27 0020	1.28/LF	LF	458								0.35	1	DAY		458 LF		455	
	Torch Cutting Steel 1" bar		02 41 19 27 0040	1.79/EA	EA									0.35	1	DAY		0.35 DAY		1	
	Truck Mounted Crane 25 ton		01 54 33 60 2500	608.56/Day	DAY									6.8	1	HR		6.8 HR		321	
	Eq. Op., Crane or Shovel (Eq/ty)		Eq/ty	\$61.75/HR	HR									6.8	2	HR		13.6 HR		49	
	Truck dump 16 ton payload		01 54 33 20 5300	435.96/Day	DAY									6.8	2	HR		13.6 HR		460	
	Truck Driver, Heavy		Thw	\$47.35/HR	HR									6.8	2	HR		13.6 HR		301	
	Steel's Weight		CLAB	\$47.05/HR	HR																
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				9679
	Equipment & Disposal Cost																				
	Dismantling Cost																				
	Equipment & Vol. Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				228
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	120		6	0.67							EA		18 CY		139	
	Concrete's Vol. Demolished	Front end loader wheel 3 CY	31 23 18 42 1601	0.98/CY	CY													23 CY		17	
	Loading Cost	12 CY (18 Ton) Dump Truck 1/2 mi. mtd. tfr	31 23 23 18 0320	3.73/CY	CY													23 CY		67	
	Transportation Cost	12 CY (18 Ton) Dump Truck 1/2 mi. mtd. tfr	31 23 23 18 0320	3.73/CY	CY													23 CY		67	
	Disposal Costs																				0
	Subtotal																				228
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	3		3	1							4EA		1 CY		8	
	Concrete's Vol. Demolished	Front end loader wheel 3 CY	31 23 18 42 1601	0.98/CY	CY													1 CY		1	
	Loading Cost	12 CY (18 Ton) Dump Truck 1/2 mi. mtd. tfr	31 23 23 18 0320	3.73/CY	CY													1 CY		3	
	Transportation Cost	12 CY (18 Ton) Dump Truck 1/2 mi. mtd. tfr	31 23 23 18 0320	3.73/CY	CY													1 CY		3	
	Disposal Costs																				0
	Subtotal																				12
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	60		50	0.5							EA		56 CY		431	
	Concrete's Vol. Demolished	Front end loader wheel 3 CY	31 23 18 42 1601	0.98/CY	CY													73 CY		56	
	Loading Cost	12 CY (18 Ton) Dump Truck 1/2 mi. mtd. tfr	31 23 23 18 0320	3.73/CY	CY													73 CY		211	
	Transportation Cost	12 CY (18 Ton) Dump Truck 1/2 mi. mtd. tfr	31 23 23 18 0320	3.73/CY	CY													73 CY		211	
	Disposal Costs																				0
	Subtotal																				639
	Subtotal																				9653

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Lump Coal Storage Pad 15																				
	Structure's Demolition Cost																				
	Structure's Vol Demolished																				
	Brush's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				1031
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				189
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	118	4	1								EA		1.3	17	744	
	Concrete's Vol Demolished																				
	Loading Cost	Front end loader wheel 3 CY		31.23 16.42 1601	CY																
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				191
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	38	80	0.67								EA		1.3	76	744	
	Concrete's Vol Demolished																				
	Loading Cost	Front end loader wheel 3 CY		31.23 16.42 1601	CY																
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				96
	Concrete Demolition																				
	Demolition Cost	Concrete's Vol Demolished																			
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				840
	Total																				1031

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Equipment Wash Pad 16																				
	Structure's Demolition Cost																				
	Structure's Vol Demolished																				
	Rubber's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	40	25	0.5											EA	19 CY	146
	Concrete's Vol Demolished	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CY	CY															25 CY	19
	Loading Cost																				
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				185
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				
	Total																				185

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Spall Factor	Quantity	Unit	Cost	
	Transformer Pad Shop 17																				
	Structure's Demolition Cost																				
	Structure's Vol Demolished																				
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				17
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemo1	9.92/CY	CY	11	9	0.5													15
	Concrete's Vol Demolished	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CY	CY																2
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				17
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Total																				17

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Water Tanks 18																				
	Structurer's Demolition Cost	Steel Bld. Large	02 41 16 13 0012	0.29/CF		10			14						4 EA			6158 CF		1386	
	Structurer's Vol Demolished	Steel Bld. Large	02 41 16 13 0012	0.29/CF		20			10						1 EA			1571 CF		354	
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				1720
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Total																				1740

Ref	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Fuel Tanks 19																				
	Structure's Demolition Cost	Steel Bid Large	02 41 16 13 0012	0.29/CF		10			13.5						2 EA			2693 CF		644	
	Structure's Demolition Cost	Steel Bid Large	02 41 16 13 0012	0.29/CF		23			11.5						1 EA			2399 CF		538	
	Structure's Demolition Cost	Steel Bid Large	02 41 16 13 0012	0.29/CF		19			9						3 EA			3628 CF		816	
	Structure's Demolition Cost	Steel Bid Large	02 41 16 13 0012	0.29/CF		11			4						1 EA			138 CF		31	
	Structure's Demolition Cost	Steel Bid Large	02 41 16 13 0012	0.29/CF		7			7						1 EA			269 CF		61	
	Structure's Demolition Cost	Steel Bid Large	02 41 16 13 0012	0.29/CF		5			9.5						1 EA			354 CF		80	
	Truck's Capacity																				
	Hausage																				
	Transportation Cost Non Steel Truck																				
	Disposal Cost Non Steel Drive																				
	Steel's Weight																				
	Truck's Capacity																				
	Hausage																				
	Disposal Cost Steel																				2176
	Subtotal																				
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol Demolished																				
	Loading Cost																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Total																				2179

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	
	Final Lines 20																				
	Structure's Vol Demolished	Pipe Steel 4" dia	02 41 13 33 3200	9.51/LF		400										LF		400	LF	2949	
	Rubber's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				2949
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Cost																				
	Subtotal																				
	Total																				2949

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Fans 21																				
	Structures Vol Demolished	Torch Cutting Steel 1" plate	02 41 19 27 0020	1.28/LF	LF	77									1	LF		77 LF		76	
		Torch Cutting Steel 1" bar	02 41 19 27 0040	1.79/EA	EA										289	EA		289 EA		472	
		Truck Mounted Crane 25 ton	01 54 33 60 2500	608.56/Day	DAY										8.2	DAY		8.2 DAY		272	
		Eq. Op. Crane or Shovel (Eqty)	01 54 33 20 5300	\$61.75/HR	HR										2	HR		2 HR		677	
		Truck dump 16 ton payload	01 54 33 20 5300	435.96/Day	DAY										8.2	DAY		8.2 DAY		383	
		Truck Driver Heavy	TRV	\$47.35/HR	HR										8.2	HR		8.2 HR		381	
		CLAB	CLAB	\$47.05/HR	HR										2	HR		2 HR		381	
	Subtotal																				25498
	Equipment's Disposal Cost																				
	Demolition Cost																				
	Equipment's Vol Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	7.5		2	0.67						6	FT	1.3	2.0 CY		15	
	Concrete's Vol Demolished	Front and loader wheel 3 CY		31.23 16 42 1601	CY													3.0 CY		2	
	Loading Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. hr		31.23 23 18 0320	CY													3.0 CY		9	
	Transportation Cost																	3.0 CY		9	
	Disposal Costs																	3.0 CY		9	
	Subtotal																				28
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY	CY	16		13	0.67						3	FT	1.3	15.0 CY		115	
	Concrete's Vol Demolished	Front and loader wheel 3 CY		31.23 16 42 1601	CY													20.0 CY		15	
	Loading Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. hr		31.23 23 18 0320	CY													20.0 CY		58	
	Transportation Cost																	20.0 CY		0	
	Disposal Costs																	20.0 CY		188	
	Subtotal																				188
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Total																				2063

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Concrete 22																				
	Structure Demolition Cost	Steel Bld Large	02 41 16 13 0012	0.291/CF		6230		5	5									155750	CF	35060	
	Structure VOl Demolished	Steel Bld Large	02 41 16 13 0012	0.291/CF		60		8	8									149780	CF	33702	
	Truck's Weight (exclude steel)																				
	Truck's Capacity																				
	Truck's Capacity																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Truck																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Truck's Capacity																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				69732
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CF		3		3	1												485
	Concrete's Vol Demolished	Front end loader wheel 3 CY	31 23 16 42 1601	0.98/CF																	62
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				547
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Total																				69299

Ref	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Septic Tanks 24																				
	Structure's Demolition Cost																				
	Structure's Vol Demolished																				
	Rubble's Weight (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck Drive																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				431
	Excavation of Septic Tanks	Concrete demolition	ConcreteDemo1	9.92/	CY	10	10	10	3												339
	Excavation	Concrete demolition	ConcreteDemo1	1.83/	CY	10	10	10	3												62
	Backfill	Backfill Trench (Minimal Haul 2 1/4 CY																			
	Concrete Demolition	Concrete demolition	ConcreteDemo1	9.92/	CY						1.5										46
	Concrete's Vol Demolished	Front end loader wheel 3 CY		31.23	16.42	16.01															6
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				52
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				433
	Total																				

Ref	Description	Materials	Mears Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Culverts 25																				
	Concrete Demolition D-8D Water Bar	Concrete demolition	ConcreteDemo1	9.92	/CY													10	CY	77	
	Demolition Cost					35	12	0.67										1.3	13	CY	10
	Concrete's Vol Demolished																		13	CY	38
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98	/CY														13	CY	0
	Transportation Cost	12 CV (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 18 0320	3.73	/CY														13	CY	0
	Disposal Costs																				0
	Subtotal																				148
	Concrete Demolition C-8U	Concrete demolition	ConcreteDemo1	9.92	/CY				1.5										20	CY	154
	Demolition Cost					350	0.33											1.3	26	CY	20
	Concrete's Vol Demolished																		26	CY	75
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98	/CY														26	CY	0
	Transportation Cost	12 CV (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 18 0320	3.73	/CY														26	CY	0
	Disposal Costs																				0
	Subtotal																				248
	Concrete Demolition C-10U	Concrete demolition	ConcreteDemo1	9.92	/CY				5										31	CY	239
	Demolition Cost					160	0.33											1.3	40	CY	30
	Concrete's Vol Demolished																		40	CY	116
	Loading Cost	Front end loader wheel 3 CY	31 23 16 42 1601	0.98	/CY														40	CY	0
	Transportation Cost	12 CV (16 Ton) Dump Truck 1/2 mi. rnd. trip	31 23 23 18 0320	3.73	/CY														40	CY	0
	Disposal Costs																				0
	Subtotal																				385
	Total																				744

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	
	Marchman Trailer 28																				
	Structure's Vol. Demolished	Mixed Materials Bid Large	02 41 16 13 0100		0.3/CF	8	8	7								FT		448	CF	104	
	Rubble's Weight (exclude steel)															TON/CY		5	CY		
	Truck's Capacity																	7	TON		
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel	Nelson Construction	Nelson Con.		7/TON																49
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				153
	Equipment & Disposal Cost																				
	Dismantling Cost																				
	Equipment & Vol. Demolished																				
	Loading Cost																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol. Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Total																				153

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Spall Factor	Quantity	Unit	Cost	
	Cap and Powder Mag Z7																				
	Structures Demolition Cost	Steel Bid, Large	02-4116-13-0012	0.29/CF	CF	5	6	8								2 EA		480	CF	139	
	Structure's Vol (exclude steel)																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost (Non Steel Truck)																				
	Transportation Cost (Non Steel Drive)																				
	Disposal Cost (Non Steel)																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost (Steel Truck)																				
	Transportation Cost (Steel Truck Drive)																				
	Disposal Cost (Steel)																				
	Subtotal																				139
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol (Demolished)																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol (Demolished)																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol (Demolished)																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol (Demolished)																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				
	Total																				139

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Concrete Tunnel 23																				
	Structure's Demolition Cost																				
	Structure's Vol Demolished																				
	Truck's Weight (exclude steel)																				
	Truck's Capacity																				
	Handling																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Truck's Capacity																				
	Haulage																				
	Transportation Cost Steel Truck																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				10693
	Equipment's Disposal Cost																				
	Dismantling Cost																				
	Equipment's Vol Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				939
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY		470		7	0.5						2	FT	1.3	122	CY	1270	
	Concrete's Vol Demolished																				
	Loading Cost	Front end loader wheel 3 CY																			
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				138
	Concrete Demolition																				
	Demolition Cost	Concrete demolition	ConcreteDemol	9.92/CY		470		8	0.5						2	FT	1.3	139	CY	1070	
	Concrete's Vol Demolished																				
	Loading Cost	Front end loader wheel 3 CY																			
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				138
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Cost																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				2283

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
	Pug Well 29	Pug Well	AML3	5000	EA										1	EA		1	EA	5000
	Structure's Demolition Cost																			
	Structure's Vol Demolished																			
	Trucks Capacity																			
	Trucks Capacity																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Trucks Capacity																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			5000
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol Demolished																			
	Landing Costs																			
	Transportation Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol Demolished																			
	Landing Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol Demolished																			
	Landing Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			5000

Ref	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Seal Portland 30	Seal Portland	AML1	6200/EA											18 EA			18 EA		93600
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			93600
	Equipment & Disposal Cost																			
	Dismantling Cost																			
	Equipment & Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			93600

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Smell Factor	Quantity	Unit	Cost	
	Power Lines and Poles 32																				
	Structure's Demolition Cost																				
	Structure's Vol Demolished																				
	Rubble's Weight (exclude steel)																				
	Trucks Capacity																				
	Haulage																				
	Transportation Cost Non Steel Truck																				
	Transportation Cost Non Steel Drive																				
	Disposal Cost Non Steel																				
	Steel's Weight																				
	Trucks Capacity																				
	Haulage																				
	Transportation Cost Steel Truck Drive																				
	Transportation Cost Steel Truck Drive																				
	Disposal Cost Steel																				
	Subtotal																				763
	Equipment's Disposal Cost	Wire Removal	Old Means 1	113	CLF	8700										FT					763
	Demolition Cost																				
	Equipment's Vol Demolished																				
	Loading Costs																				
	Transport Costs																				
	Disposal Costs																				
	Subtotal																				5000
	Equipment's Disposal Cost	Powerpole	Hawatha	100	EA																5000
	Demolition Cost																				
	Equipment's Vol Demolished																				
	Loading Costs																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				5000
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Costs																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				5000
	Concrete Demolition																				
	Demolition Cost																				
	Concrete's Vol Demolished																				
	Loading Costs																				
	Transportation Cost																				
	Disposal Costs																				
	Subtotal																				5000
	Total																				3763

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Ds.	Units	Corrected Cost
Bear Canyon Mine Earthwork															28093
Tank Seam No 01															3131
Upper Storage Pad No 02															7881
Portal Pad Area No 03															4179
Portal Access Road No 04															33204
Coal Storage Pad															584
Scale House															1422
Sediment Ponds															2388
Shower House															27664
Borehole No 12															23210
Wild Horse Ridge															27515
Support															71200
Riprap No 14															
Total															230477

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Ds.	Units	Cost
Bear Canyon Mine															
Grading															
Tank Seam No. 01															
Tank Seam Access Road and Portal Pad Area															
Direct Cut and Fill															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	28.1	213.43	1	213 \$/HR		9649 CY		478 CY/HR		20.2 HR		4303
Load and Haul															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	28.1	213.43	1	213 \$/HR				313.7 CY/HR		34 HR		7242
6X4 50,000lbs 10-12 CY (20-11) (2nd2006)	3210	40.35	0.1	22.2	86.65	4	347 \$/HR		10661 CY				34 HR		11798
Place Hauled Material															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	28.1	213.43	1	213 \$/HR		10661 CY		478 CY/HR		22.3 HR		4750
Volume									20310 CY						
Total															28093

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Drs.	Units	Cost
Bear Canyon Mine															
Grading															
Upper Storage Pad No 02															
Direct Cut and Fill															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	28.1	213.43	1	213 \$/HR		3666	CY	478	CY/HR	7.7	HR	1640
Place Hauled Material From TS-5 and TS-6															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	28.1	213.43	1	213 \$/HR		3366	CY	478	CY/HR	7	HR	1491
Volume									7022						
Total															3131

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dls.	Units	Cost
Bear Canyon Mine															
Grading															
Portal Pad Area No 03															
Direct Cut and Fill															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	28.1	213.43	1	213\$/HR		6445	CY	488	CY/HR	13.2	HR	2812
Place Hauled Material from TS-5															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	28.1	213.43	1	213\$/HR		11592	CY	488	CY/HR	23.8	HR	5069
Volume															
Total									18037						7881

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dls	Units	Cost
Bear Canyon Mine															
Grading															
Portal Access Road No 04															
Direct Cut and Fill															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	28.1	213.43	1	213 \$/HR		5573 CY		478 CY/HR		11.7 HR		2492
Load and Haul															
980G Series II EROPS (9-34) (2nd2006)	10255	51.7	0.1	28.1	149.06	1	149 \$/HR		2653 CY		760 CY/HR		3.4 HR		507
6X4 50,000lbs 10-12 CY (20-11) (2nd2006)	3210	40.35	0.1	22.2	86.65	4	347 \$/HR						3.4 HR		1180
Volume									8126						
Total															4179

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis	Units	Cost
Bear Canyon Mine															
Grading															
Coal Storage Pad															
Load and Haul Soil to other sites															
980G Series II EROPS (9-34) (2nd2006)	10255	51.7	0.1	28.1	149.06	1	149 \$/HR		12398 CY		480 CY/HR		25.8 HR		3844
6X4 50,000lbs 10-12 CY (20-11) (2nd2006)	3210	40.35	0.1	22.2	86.65	8	693 \$/HR						25.8 HR		17879
Move material on site/Place Hauled Material															
D9R Semi-U EROPS (9-52) (2H2007)	19405	95.3	0.1	28.1	254.21	1	254 \$/HR		28190 CY		623 CV/HR		45.2 HR		11481
Volume									40585						
Total															33204

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operators Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dls	Units	Cost
Bear Canyon Mine															
Grading															
Scale House	19405	95.3	0.1	28.13	254.24	1	254 \$/HR		1454	CY	623 CY/HR		2.3 HR		584
D9R Semi-U-EROPS (9-52) (2H2007)															
Volume									1454						
Total															584

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dls.	Units	Cost
Bear Canyon Mine															
Grading															
Sediment Ponds															
Sediment Ponds 'A'	19405	95.3	0.1	28.13	254.24	1	254 \$/HR		3460 CY		623 CY/HR		5.6 HR		1422
D9R Semi-U EROPS (9-52) (2H2007)															
Sediment Ponds 'B'	19405	95.3	0.1	28.13	254.24	1	254 \$/HR		0 CY		400 CY/HR		0 HR		0
D9R Semi-U EROPS (9-52) (2H2007)															
Sediment Ponds 'C'	19405	95.3	0.1	28.13	254.24	1	254 \$/HR		0 CY		400 CY/HR		0 HR		0
D9R Semi-U EROPS (9-52) (2H2007)															
Volume									3460						
Total															1422

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operators Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Bear Canyon Mine															
Grading															
Shower House	19405	95.3	0.1	28.13	254.24	1	254 \$/HR		5851	CY	623	CY	9.4	CY	2388
D9R Semi-U EROPS (9-52) (2H2007)															
Volume									5851						
Total															2388

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Bear Canyon Mine Grading															
Wild Horse Ridge															
Wild Horse Ridge TS-12 through 15															
Fough Backfilling and Grading															
D9R Semi-U EROPS (9-52) (2H2007)	19405	95.3	0.1	28.13	254.24	1	254 \$/HR	Units	12500	CY	623	CV/HR	20.1	HR	5105
D9R Semi-U EROPS (9-52) (2H2007)	16330	75.7	0.1	28.13	213.46	1	213 \$/HR	Units	11141	CY	488	CV/HR	22.8	HR	4856
CAT 345BL II (10-24)(2nd2006) 2005															
Haul and Place Topsoil															
980G Series II EROPS (9-34) (2nd2006)	10255	51.7	0.1	28.13	149.09	1	149 \$/HR	Units	4860	CY	320	CV/HR	15.2	HR	2265
EX4 50.000lbs 10-12 CY (20-11) (2nd2006)	3210	40.35	0.1	22.16	86.61	4	346 \$/HR	Units					15.2	HR	5259
D9R Semi-U EROPS (9-52) (2H2007)	19405	95.3	0.1	28.13	254.24	1	254 \$/HR	Units	4860	CY	623	CV/HR	7.8	HR	1981
Subtotal															19466
Wild Horse Ridge TS-16 through 17															
Cut and Fill Material															
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	28.13	213.46	1	213 \$/HR	Units	13295	CY	488	CV/HR	27.2	HR	5794
D9R Semi-U EROPS (9-52) (2H2007)	19405	95.3	0.1	28.13	254.24	1	254 \$/HR	Units	1760	CY	623	CV/HR	2.8	HR	711
Haul and Place Topsoil															
980G Series II EROPS (9-34) (2nd2006)	10255	51.7	0.1	28.13	149.09	1	149 \$/HR	Units	1760	CY	720	CV/HR	2.4	HR	358
EX4 50.000lbs 10-12 CY (20-11) (2nd2006)	3210	40.35	0.1	22.16	86.61	3	260 \$/HR	Units					2.4	HR	624
D9R Semi-U EROPS (9-52) (2H2007)	19405	95.3	0.1	28.13	254.24	1	254 \$/HR	Units	1760	CY	623	CV/HR	2.8	HR	711
Subtotal															6198
Volume															
Total									23641	12-15					27664

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Equip. + Labor Time/Dis.	Units	Cost
Bear Canyon Mine														
Grading														
Borehole No 12														
Load and Haul Material														
980G Series II EROPS (9-34) (2nd2006)	10255	51.7	0.1	28.13	149.09	1	149 \$/HR		10560 CY		480 CY/HR	22 HR		3278
EX4 50.000lbs 10-12 CY (20-11) (2nd2006)	3210	40.35	0.1	22.16	86.61	8	693 \$/HR					22 HR		15246
CAT 345BL II (10-24)(2nd2006) 2005	16330	75.7	0.1	28.13	213.46	1	213 \$/HR		10560 CY		480 CY/HR	22 HR		4686
Volume									10560					
Total														23210

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Drs.	Units	Cost
Bear Canyon Mine															
Grading															
Support															
Foreman Average - Outside				29.06	29.06	1	29.06 \$/HR						189 HR		5481
5,000 gal H2O truck Diesel (20-17) (2nd2006)	5170	35.7	0.1	22.16	93.74	1	94 \$/HR						189 HR		17766
Pickup Crew 4x4 1 ton 340 hp (20-17) (2nd2007)	1080	14.5	0.1	0	22.58	1	22.58 \$/HR						189 HR		4268
Total															27515

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Ds.	Units	Cost
Bear Canyon Mine Erosion Control Riprap No 14															
Place Riprap CAT 330D L (10-24) (2nd2007)	15415	68.9	0.1	28.13	200.26	1	200 \$/HR		2359 sy		53 sy/day		356 HR		71200
Volume															
Total															71200

Ref	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Corrected Cost	
	Main Mine Site 01																				326928
	Wild Horse Ridge 02																				50195
	Total																				418174

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Main Mine Site 01																				
	Revegetation																				
	Drill Seeding	Tractor Spreader (equip. & labor) B-66	Reveg004	13.34	MSF					13.4						AC		584	MSF	6045	
	Seed Material	Bear Canyon Main Mine Struds	Bear Canyon 001	166	S/AC					13.4						AC		13	AC	1675	
	Seed Material	Bear Canyon Main Mine Struds	Bear Canyon 002	149.05	S/AC					13.4						AC		13	AC	1410	
	Seed Material	Bear Canyon Main Mine Grass	Bear Canyon 003	158.9	S/AC					13.4						AC		13	AC	1803	
	Mulch	Tractor Spreader (equip. & labor) B-66	Reveg004	13.34	MSF					13.4						AC		584	MSF	6045	
	Mulch	Hay 1" material only 32 91 13 16 0350	Reveg001	56.1	MSF					13.4						AC		584	MSF	25424	
	Stock Labor	Bare root seedlings 1" to 16" med soil	32 93 43 10 0140	1.79	EA					13.4						AC		6700	EA	3907	
	Stock Material	Bear Canyon Main Transplants	Bear Canyon 004	3.95	S/AC					13.4						AC		6700	EA	26465	
	Ripping	300 HP Dozer w/ Ripper	31 23 16 32 2830	0.42	CY					13.4						AC		6700	EA	1044	
	Subtotal																			89112	
	Number 2 Mine Area																				
	Hydroseeding	Hydro Spreader (equip. & labor) B-61 80WS	Reveg002	18.54	MSF					9.39						AC		527	MSF	7592	
	Seed Material	Bear Canyon Main Mine Struds	Bear Canyon 001	166	S/AC					9.39						AC		9	AC	1159	
	Seed Material	Bear Canyon Main Mine Struds	Bear Canyon 002	149.05	S/AC					9.39						AC		9	AC	1041	
	Seed Material	Bear Canyon Main Mine Grass	Bear Canyon 003	158.9	S/AC					9.39						AC		9	AC	1110	
	Mulch	Hay 1" material only 32 91 13 16 0350	Reveg001	56.1	MSF					9.39						AC		489	MSF	17892	
	Stock Labor	Bare root seedlings 1" to 16" med soil	32 93 43 10 0140	1.79	EA					9.39						AC		489	EA	6522	
	Stock Material	Bear Canyon Main Transplants	Bear Canyon 004	3.95	S/AC					9.39						AC		489	EA	18245	
	Packing 340 CY/AC																				
	Subtotal	Excavation Bulk Bank 2 CY (322BL)	31 23 16 42 0280	1.54	CY					9.39						AC		3193	CY	3816	
	Riparian Planting Area																				
	Plant Stock	Bear Canyon Main Mine Grass	Bear Canyon 008	899	S/AC					1						AC		1	AC	690	
	Subtotal	Bare root seedlings 1" to 16" med soil	32 93 43 10 0140	1.79	EA					1						AC		500	EA	895	
	Planting																				
	Planting	Revegetation mat webbed	31 25 13 10 0120	7.05	SY					4.4						AC		21296	SY	116506	
	Subtotal																			116506	
	Total																			260783	
	Reseed Assure 25% reseeding																			65196	
	Subtotal																			65196	
	Total																			325879	

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Wild Horse Ridge 02																				
	Revegetation																				
	Drill Seeding																				
	Drill Seeding																				
	Mulch																				
	Mulch																				
	Stock																				
	Riprap																				
	Subtotal																				
	Hydroseeding																				
	Hydroseeding																				
	Hydroseeding																				
	Hydroseeding																				
	Mulch																				
	Mulch																				
	Stock (labor cost = material cost)																				
	Stock (labor cost = material cost)																				
	Packing 340 CY/MC																				
	Subtotal																				
	Hand Seed																				
	Seed																				
	Hydroseeding																				
	Stock (labor cost = material cost)																				
	Mulch																				
	Subtotal																				
	Total Vegetation																				
	Reseed																				
	Assume 25% reseedling																				
	Subtotal																				
	Total																				

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015/025 Incoming

Q

HIAWATHA COAL COMPANY

**P.O. Box 1240
Huntington, UT 84528**

**(435) 687-5777
FAX (435) 687-5724**

James D. Smith
Utah Division of Oil, Gas & Mining
1954 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

February 4, 2009

Re: **Chapter 8 Update, Included- Bond estimate**

Dear Mr. Smith:

As you are aware, it is becoming increasingly harder to obtain Surety Bonds. This will require companies to obtain other means or post some form of cash bond. For this reason, Hiawatha Coal Company is submitting a new Bond Estimate for review included in our Chapter 8 Update. Hiawatha Coal feels we are currently over bonded in the amount of \$318,000 for the Bear Canyon Mine Bond.

This estimate takes into consideration the RSMeans Site indexes for costs, which previously were ignored by the Division in their estimates to insure companies were not under bonded. This thought process increases bonds for our area approximately 25% more than is required. The Divisions own Technical Directive, which was agreed on by the Coal Operators eight years ago, states that the labor costs are derived from the RSMeans. RsMeans states that these "labor costs should be adjusted accordingly" utilizing these indexes.

If you have any further questions concerning this submittal, please feel free to contact me at (435) 687-5777.

Sincerely,



Cliff Baker
Environmental Coordinator

**RECEIVED
FEB 12 2009**

DIV. OF OIL, GAS & MINING

File in: *015 0015 2009 Incoming*

Refer to:

- Confidential
- Shelf
- Expandable

Date: *02/04/09* For additional information

APPLICATION FOR COAL PERMIT PROCESSING

COPY

Permit Change New Permit Renewal Exploration Bond Release Transfer

Permittee: HIAWATHA COAL CO.

Mine: BEAR CANYON MINE

Permit Number: ACT/015/025

Title: Chapter 8 Update

Description, Include reason for application and timing required to implement: include a up to date and accurate bond estimate

Instructions: If you answer yes to any of the first eight (gray) questions, this application may require Public Notice publication.

- 1. Change in the size of the Permit Area? Acres: Disturbed Area: [] increase [] decrease.
2. Is the application submitted as a result of a Division Order? DO#
3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
4. Does the application include operations in hydrologic basins other than as currently approved?
5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
6. Does the application require or include public notice publication?
7. Does the application require or include ownership, control, right-of-entry, or compliance information?
8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
9. Is the application submitted as a result of a Violation? NOV #
10. Is the application submitted as a result of other laws or regulations or policies?
11. Does the application affect the surface landowner or change the post mining land use?
12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
13. Does the application require or include collection and reporting of any baseline information?
14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
15. Does the application require or include soil removal, storage or placement?
16. Does the application require or include vegetation monitoring, removal or revegetation activities?
17. Does the application require or include construction, modification, or removal of surface facilities?
18. Does the application require or include water monitoring, sediment or drainage control measures?
19. Does the application require or include certified designs, maps or calculation?
20. Does the application require or include subsidence control or monitoring?
21. Have reclamation costs for bonding been provided?
22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
23. Does the application affect permits issued by other agencies or permits issued to other entities?

Please attach four (4) review copies of the application. If the mine is on or adjacent to Forest Service land please submit five (5) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.
N. Finley
Print Name
N. Finley V.P. 2-05-09
Sign Name, Position, Date
Subscribed and sworn to before me this 5 day of February, 2009
Notary Public
My commission Expires: 6-4, 2010
Attest: State of [] County of [] } ss:
Notary Public MARK REYNOLDS
373 North Bear Canyon Rd., P.O. Box 1245
Huntington, Utah 84328
My Commission Expires June 4, 2010
State of Utah

For Office Use Only: Assigned Tracking Number: Received by Oil, Gas & Mining RECEIVED FEB 12 2009 DIV. OF OIL, GAS & MINING

