MT NEBO SCIENTIFIC, INC.
research & consulting

Comments & Instructions for Insertions to the Mining & Reclamation Plan of the Wellington Preparation Plant C/007/012

Midterm Review Response

- Final -

March 28, 2008

Submitted to the State of Utah, Division of Oil, Gas & Mining

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DOGM Deficiency:

R645-301-515.320, Although the Preparation Plant buildings on the west side of the site were removed in 1997 and the COVOL site on the east side of the Wellington Preparation Plant has been idle since 1999, and was reclaimed in 2004, the Division has not received a notice of intention to cease or abandon operations such as that described in Sec 5.15 of the MRP and required by R645-301-515.320. The Permittee must submit to the Division a temporary cessation notice describing the extent and kind of reclamation accomplished to date. [PWB]

NEICO Comment:

The requested "*temporary cessation notice*" has been written in a form that is insertable to the MRP.

MRP Insertion Instructions:

Sec. 5.15, p. 2-5, 08/17/07, of this submittal replaces
Sec. 5.15, p. 2-3, of the current MRP.

File in:
☐ Confidential
☐ Shelf
☒ Expandable
Refer to Record No 0005 Date 03282008
In C/0070012, 2008, Incoming
For additional information

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DOGM Deficiency:

R645-301-830.120, R645-301-830.130 and R645-301-830.140, The Permittee must provide detailed vegetation cost estimates based on the approved mining and reclamation plan. The current reclamation cost estimate is based on one seed mixture when there are four in the MRP and one reclamation method when there are seven listed in the MRP. [VHW]

NEICO Comment:

Costs for revegetation have been submitted previously and conditionally approved by the Division in a letter dated March 12, 2008.

MRP Insertion Instructions:

APPENDIX J (COST OF RECLAMATION) dated: February 27, 2008 (*revision date: November 2007*) of this submittal replaces

APPENDIX J (COST OF RECLAMATION) of the current MRP.

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Temporary Cessation of Operations

Much of this section of the State Rules appears to be intended for commitments to report emergencies for operations associated with underground and surface mining. No underground or surface mining is presently occurring or has occurred in the past at the Wellington Plant. The current status of the temporary decrease in activities and operations at Wellington has been well-documented in other areas of the MRP (e.g. Sec. 1.00, Sec. 5.21, Sec. 5.26) including many submittals and other correspondence to DOGM.

As an approved procedure, the area has been properly secured as a result of the current status of activities at the Wellington Plant. The operator effectively supports and maintains all surface access openings to the area, and has secured surface facilities in areas in which there are no current operations (where operations are expected to be resumed under an approved permit).

It is acknowledged that temporary cessation of operations does not relieve the operator from obligation to comply with any provisions of the approved permit.

To summarize, and to serve as a "*temporary cessation notice*" to DOGM, cessation of the activities at Wellington began on the **west side** of the Price River in 1999 following dismantling, demolition, salvage and grading activities in the area. The following structures were dismantled, demolished, disposed and/or salvaged at that time.

- Main Plant Building
- Track Hopper and Raw Coal Conveyor
- Heat Dryer Building and Conveyor
- Refuse Pipeline (in part)
- Office Building
- Storehouse
- Shop
- Coal Carbonization Lab
- Plant Pumphouse
- Sand Hopper
- Substation
- Pavement
- Asbestos

The following areas were graded on the west side of the property following the activities described above. The total area graded was 45.0 acres.

- Surface Facilities Area (in areas of the above structures)
- Coal Storage Area

Covol and their associated operators (TechMat and General Resources) ceased their wash plant activities on the **east side** of the Price River in 2003. Following cessation of these activities reclamation of this area began in 2004. The

reclamation activities included dismantling, demolition, salvage, grading, gouging, fertilizing and seeding activities. The structures were dismantled and removed from the Covol Wash Plant site.

- Wash Plant
- Concrete Floor Slabs
- Foundations
- Column Floatation Cells
- Conveyor Belts
- Office, Stores and Trailers
- Diesel Fuel Tank & Containment
- Water and Tailing Pipelines
- Pumphouse

The following areas were graded, gouged, fertilized and seeding follow removal of the above structures.

- Wash Plant Site (3.09 acres)
- River Pumphouse Site (0.72 acres)

When new operations at Wellington begin, if temporary cessation of these operations occur for a period of 30 days or more, the operator will submit to DOGM a notice of intention to cease or abandon operations. This notice will include a statement of the exact number of acres which will have been affected in the permit area prior to such temporary cessation. The notice will also include, if applicable, the extent and kind of reclamation of

those areas which will have been accomplished, and identification of the backfilling, regrading, revegetation, environmental monitoring, and water treatment activities that may continue during the temporary cessation.

APPENDIX J

COST OF RECLAMATION
February 27, 2008

SUMMARY OF BOND CALCULATIONS [1, 2]
FOR THE
WELLINGTON PREPARATION PLANT (C/007/012)
February 27, 2008

(1) Bond calculations were prepared by the State of Utah, Division of Oil, Gas & Mining.

(2) For detailed cost analysis and other information including demolition, earthmoving, volumes, equipment and revegetation, refer to the attached spreadsheets.

DIRECT COSTS	
Demolition and Removal	$199,999.00
Backfilling and Grading	$2,509,069.00
Revegetation	$762,892.00
Subtotal Direct Costs	**$3,471,960.00**
INDIRECT COSTS	
Mobilization/De-mobilization	$347,196.00
Contingency (5.0%)	$173,598.00
Engineering Redesign (2.5%)	$86,799.00
Main Office Expense (6.8%)	$236,093.00
Project Management Fee (2.5%)	$86,799.00
Subtotal Indirect Costs (26.8%)	**$930,485.00**
TOTAL COSTS	**$4,402,445.00**
Escalation factor (0.032)	
Number of years (5.0)	
Escalation	$750,938.00
Reclamation Cost Escalated	$5,153,383.00
Dollar Year: 2011	
BOND AMOUNT (rounded to nearest $1,000)	**$5,153,000.00**

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DEMOLITION

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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
	Refuse Pipeline 01																			19917
	Pumphouse 02																			3780
	Powerline East 03																			5340
	Clear Water Dike 04																			6240
	Wash Plant 05																			84250
	Column Flotation Cells 06																			15858
	Conveyor Belts 07																			5824
	Office 08																			5200
	Diesel 09																			2866
	Pipelines 10																			44950
	Slurry Feed Tank and Pump 11																			5774
	TOTAL																			99999

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
	Refuse Pipeline 01																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.26	/CF						64230					CF		64230	CF	16700
	Structure's Vol. Demolished										833					CY	0.35	833	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																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			16700
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Pipe's Demolition																			
	Demolition Cost	Steel Bld. Large	02220 110 0012	0.26	/CF	6800										LF		6800	LF	1768
	Pipe's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			1768
	Foundation's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY						62					CY		62	CY	422
	Foundation's Vol. Demolished																1.3	81	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY													81	CY	116
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	02315 490 0320	3.49	/CY													81	CY	283
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													81	CY	628
	Subtotal																			1449
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			19917

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
	Pumphouse 02																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.26	/CF						9360					CF		9360	CF	2434
	Structure's Vol. Demolished										121					CY	0.35	121	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																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			2434
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Floor's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY						21					CY		21	CY	143
	Floor's Vol. Demolished																1.3	27	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY													27	CY	39
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.49	/CY													27	CY	94
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													27	CY	209
	Subtotal																			485
	Foundation's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY						37					CY		37	CY	252
	Foundation's Vol. Demolished																1.3	48	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY													48	CY	69
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.49	/CY													48	CY	168
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													48	CY	372
	Subtotal																			861
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			3780

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
	Powerline East 03																			
	Structure's Demolition Cost	Powerpole	Hiawatha	100	EA										25	EA		25	EA	2500
	Structure's Vol. Demolished										0					CY	0.35	0	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																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			2500
	Conductort 's Disposal Cost	Electrical Demolition	16055 300 1870	15.35	CLF	3.5										MI		185	CLF	2840
	Dismantling Cost																			
	Conductor 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			2840
	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																			5340

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
	Clear Water Dike 04																			
	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																			
	Building 's Disposal Cost	410 H. P. (D9)	01 54 33 20 4360	1353.16	/day										0.2	DAY		0.2	DAY	271
	Dismantling Cost																			
	Building 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			271
	Fresh Water Line's Demolition Cost	Pipe removal 24 inch	02220 240 2960	11.3	/FT	200										FT		200	FT	2260
	Demolition Cost																			
	Fresh Water Line's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			2260
	Intake Tower																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY						62					CY		62	CY	422
	Intake Tower's Vol. Demolished																1.3	81	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY													81	CY	116
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.49	/CY													81	CY	283
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													81	CY	628
	Subtotal																			1449
	Spillway	Pipe removal 24 inch	02220 240 2960	11.3	/FT	200										FT		200	FT	2260
	Demolition Cost																			
	Spillway's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			2260
	Total																			6240

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
	Wash Plant 05																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.26	/CF	90	70	50								FT		315000	FT	81900
	Structure's Vol. Demolished										4083					CY	0.35	4083	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																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																	4083	CY	
	Subtotal																			81900
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Floor's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY	90	70	0.5								FT		117	CY	797
	Floor's Vol. Demolished																1.3	152	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.49	/CY															
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													152	CY	1178
	Subtotal																			1975
	Foundation's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY						22					CY		22	CY	150
	Foundation's Vol. Demolished																1.3	29	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. tri	02315 490 0320	3.49	/CY															
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													29	CY	225
	Subtotal																			375
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			84250

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
	Column Flotation Cells 06																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.26	/CF			42	8						4	FT		8445	FT	2196
	Structure's Vol. Demolished										109					CY	0.35	109	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																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																	109	CY	
	Subtotal																			2196
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Floor's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY	40	40	0.5								FT		800	CY	5448
	Floor's Vol. Demolished																1.3	1040	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.49	/CY															
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													1040	CY	8060
	Subtotal																			13508
	Foundation's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY						9					CY		9	CY	61
	Foundation's Vol. Demolished																1.3	12	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.49	/CY															
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													12	CY	93
	Subtotal																			154
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			15858

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Conveyor Belts 07																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.26	/CF	800	5	5							1	FT		20000	CF	5200
	Structure's Vol. Demolished										259					CY	0.35	259	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																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																	259	CY	
	Subtotal																			5200
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Foundation's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY						37					CY		37	CY	252
	Foundation's Vol. Demolished																1.3	48	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.49	/CY															
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													48	CY	372
	Subtotal																			624
	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																			5824

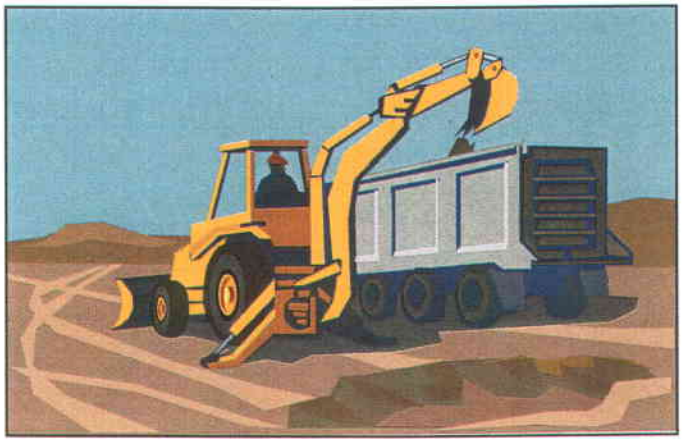
Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Office 08																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.26	/CF	800	5	5							1	FT		20000	CF	5200
	Structure's Vol. Demolished										259					CY	0.35	259	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																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																	259	CY	
	Subtotal																			5200
	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																			5200

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
	Diesel 09																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.26	/CF						1340				1	CF		1340	CF	348
	Structure's Vol. Demolished										17					CY	0.35	17	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																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																	17	CY	
	Subtotal																			348
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Floor's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY	17	17	0.5								FT		145	CY	987
	Floor's Vol. Demolished																1.3	189	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.49	/CY															
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													189	CY	1465
	Subtotal																			2452
	Floor's Demolition																			
	Demolition Cost																			
	Floor's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Foundation's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY						4					CY		4	CY	27
	Foundation's Vol. Demolished																1.3	5	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.49	/CY															
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													5	CY	39
	Subtotal																			66
	Total																			2866

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
	Pipelines 10																			
	Structure's Demolition Cost	Pipe removal 12 inch	02220 240 2900	7.75	/FT	5800										LF		5800	LF	44950
	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																			44950
	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																			44950

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
	Slurry Feed Tank and Pump 11																			
	Structure's Demolition Cost	Steel Bld. Large	02220 110 0012	0.26	/CF						21200					CF		21200	CF	5512
	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																			5512
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Floor's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY						5					SY		5	SY	34
	Floor's Vol. Demolished																1.3	6	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.49	/CY															
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													6	CY	47
	Subtotal																			81
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Foundation's Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	6.81	/CY						10.5					CY		10.5	CY	72
	Foundation's Vol. Demolished																1.3	14	CY	
	Loading Cost	Front end loader 3 CY	02315 424 1300	1.43	/CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02315 490 0320	3.49	/CY															
	Disposal Costs	On site disposal	02220 240 5550	7.75	/CY													14	CY	109
	Subtotal																			181
	Total																			5774

EARTHWORK



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	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
Plant Sediment Pond 001															251
Road Pond 002															40260
Heat Dryer Pond 003															647728
Upper and Lower Refuse Basin 004															1564899
Grade Upper Refuse Dike 005															4246
Grade Crest 006															16007
Grade Diverson Ditch 007															2123
Cover River Pump House 008															2931
Grade Topsoil Borrow Area 009															19555
Rip Topsoil Borrow Area 010															21590
Grade Coal Fines Plant 011															4294
Coal Fine Plant Site 012															1920
Support 013															183265
Total															2509069

	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
Plant Sediment Pond 001															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35						0.9	HR	251
Subtotal															251

	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
Road Pond 002															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35						31.6	HR	8827
657EP-P (9-47) (2nd2006)	36765	190.65	0.1	57.85	497.35	2	994.7						31.6	HR	31433
Subtotal															40260

	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
Heat Dryer Pond 003															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35						285.5	HR	79754
657EP-P (9-47) (2nd2006)	36765	190.65	0.1	57.85	497.35	4	1989.4						285.5	HR	567974
Subtotal															647728

	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
Upper and Lower Refuse Basin 004															
Cover Upper and Lower Refuse Basin with															
4 feet of Cover															
Portion from Borrow Area E															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35						334.4	HR	93415
657EP-P (9-47) (2nd2006)	36765	190.65	0.1	57.85	497.35	4	1989.4						334.4	HR	665255
Portion from Borrow Area D+G															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35						95.6	HR	26706
657EP-P (9-47) (2nd2006)	36765	190.65	0.1	57.85	497.35	2	994.7						95.6	HR	95093
Portion from Borrow Area H+I															
6X4 70,000lbs 12-18 CY (20-15) (2nd2006)	3795	41.9	0.1	45.65	115.46	10	1154.6						241	HR	278259
988G EROPS (9-34) (2nd2006) 2005	15505	77.35	0.1	57.85	239.84	2	479.68						241	HR	115603
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35						241	HR	67323
Portion from Clearwater &															
Lower Refuse Dikes															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35						98.4	HR	27488
657EP-P (9-47) (2nd2006)	36765	190.65	0.1	57.85	497.35	4	1989.4						98.4	HR	195757
Subtotal															1564899

	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
Grade Upper Refuse Dike 005															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35						15.2	HR	4246
Subtotal															4246

	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
Grade Crest 006 Lower Refuse Pond															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35						57.3	HR	16007
Subtotal															16007

	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
Grade Diverson Ditch 007 West of Price River															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35						7.6	HR	2123
Subtotal															2123

	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
Cover River Pump House 008 and Slurry Pipeline Areas with Topsoil															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	1	279.35						2.3	HR	643
657EP-P (9-47) (2nd2006)	36765	190.65	0.1	57.85	497.35	2	994.7						2.3	HR	2288
Subtotal															2931

	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
Grade Topsoil Borrow Area 009															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	2	558.7						35	HR	19555
Subtotal															19555

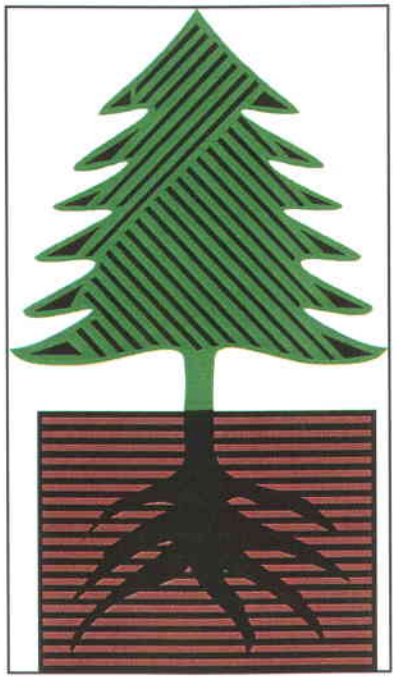
	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Rip Topsoil Borrow Area 010															
D9R Semi-U EROPS (9-50) (2H2006)	19530	90.4	0.1	57.85	279.35	2	558.7						35	HR	19555
Multi-Shank Ripper 360-519 P (9-56) (2nd2006)	3040	9.15	0.1		29.07	2	58.14						35	HR	2035
Subtotal															21590

	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
Grade Coal Fines Plant 011															
D7R Series II (9-50) (2nd2006)	11575	52.85	0.1	57.85	188.33	1	188.33		7400	LCY	324	LCY/HR	22.8	HR	4294
Subtotal															4294

	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
Coal Fine Plant Site 012															
D7R Series II (9-50) (2nd2006)	11575	52.85	0.1	57.85	188.33	1	188.33						2.8	HR	527
657EP-P (9-47) (2nd2006)	36765	190.65	0.1	57.85	497.35	1	497.35						2.8	HR	1393
Subtotal															1920

	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
Support 013															
5,000 gal H2O truck Diesel (20-17) (2nd2006)	5170	55	0.1	45.65	138.46	1	138.46						718	HR	99414
Pickup Truck Crew 4x4 1 ton (20-17) (2nd2006)	1070	13.1	0.1	0	21.1	1	21.1						1006	HR	21227
Foreman Average, Outside					62.25	1	62.25						1006	HR	62624
Subtotal															183265

REVEGETATION



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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
	Vegetation																			
	Fertilizer	Fetilizer Hydro Spread	32 01 90 13 0180	4.06	/MSF					421						AC		18339	MSF	74456
	Light Disk Harrow	75 HP Dozerw/scarifiers	M029107103100	4.02	MSF					421						AC		18339	MSF	73723
	Seeding	Atriplex-Hilaria	Wellington1	430.88	$/AC					421						AC		421	AC	181400
	Mulch	Hay bale	Reveg007	61.6	/ton					421					2	AC		842	ton	51867
	Subtotal																			381446
	Revegetation																			
	100% Revegetation Rate																			381446
	Subtotal																			381446
	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																			762892