Bronco Utah Operations LLC
PO Box 527
Emery Utah, 84522
801-286-2301

C/015/0015
Received 6/23/16
Task ID #5211

June 20, 2016

Mr. Daron Haddock
Utah Division of Oil, Gas and Mining
Coal Program
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

RE: Bronco Utah Operations LLC
Emery Mine
DOGM Permit No. C/015/0015
Emery 2 Expansion Within Boundary Task ID #5198, Deficiency Responses

Mr. Haddock:

Per the Division's memo dated June 9, 2016, consider this a response to the deficiencies noted. The deficiencies have been reproduced and addressed on the following pages. Enclosed are two copies including an executed C1 form, C2 form, revised MRP pages, and Plates. A CD has been included with the submittal in pdf format.

This revision includes additional coal conveyor systems, a new substation, new screening and crushing facility, and truck loadout to facilitate the Emery 2 expansion project. The area is located in the main portal area, was previously disturbed prior to May 3, 1978, and reports to an approved drainage basin. Bond calculations for the new structures as well as revised calculations for the existing structures are included and have been modified in format with updated unit costs.

Bronco understands the Division's concern outlined in your June 9, 2016 deficiency cover letter regarding topsoil substitute material. Although it is highly unlikely there is any salvageable topsoil substitute material within the previously disturbed area of the canyon, Bronco will observe the material during construction activities and determine if it will be stockpiled or used as a base for the coal stockpile.

If you have any questions concerning this request, please contact Kit Pappas at 435-286-2027.

Sincerely,

Kit Pappas
Environmental Manager

Attachments Deficiency Responses
Application for Coal Permit Processing (2)
Electronic CD

JAG/jag EM UTDOGM C0150015 e2 Phase I Permitted tsk5198 defres.docx

Deficiency List
Task id # 5198
E2 Phase I Permitted

The members of the review team who have identified deficiencies include the following individuals:

Cheryl Parker (Cparker)
Ingred Wiser (Bwiser)

OPERATION PLAN

Existing Structures

R645-301-526.112: The Permittee will update Plate II-1 to show only existing structures and proposed structures relevant to pending application. Blue proposed structures shall be moved to similar new plate, i.e. Plate II-1A. The Permittee will also add a clarifying statement at the beginning of Chapter II to broadly cover the conditions or required rehabilitation of the existing structure for the current operations, i.e. reference to a photo log. (Cparker)

Chapter II, Plate II-1(Structures and Facilities Main Portal Area) has been revised to show only existing structures. Per the Division's request and to expedite the bond review, Bronco has included a photographic record of the surface facilities.

The blue proposed structures supporting the proposed coal preparation plant have been moved to insert Plate II-1A (Proposed Structures and Facilities Map).

Chapter II Plate II-3 (4 East Portal Surface Facilities) has been revised to reflect the demolition that has occurred at the 4th East portal.

See Chapter II replacement pages 5 through 17f and Chapter IV Part IV.B (bond calculation sheets) for the design detail of the existing and New Facilities related to Emery 2 expansion that are listed on Plates II-1, II-1A and II-3.

Road System Plans and Drawings

R645-301-534.100-534.200, R645-301-521.170, R645-301-521.170, R645-301-521.180 and R645-301-526 through -526.222: The Permittee shall supply detailed design specification drawings of each of the called out facilities pertinent to this application, i.e. New facilities listed in red on Plate II-1 or reference existing roadway designs if the roadway is not new construction. (Cparker)

See Chapter II replacement pages 5 through 17f and Chapter IV Part IV.B (bond calculation sheets) for the design detail of the existing and New Facilities related to Emery 2 expansion that are listed on Plates II-1, II-1A and II-3.

See Chapter IV Appendix IV-7 and Plate IV-8 (Mine Yard Roads) for the existing approved road and drainage design detail in the main portal area.

See Chapter IV Plate IV-8A (Emery 2 Expansion Roads) for detailed design specification drawings pertaining to the new road system. The existing approved roads depicted on Plate IV-8 are shown on this Plate. Plate IV-8 depicts approved roads Sections 1 through 4. Section 1 is paved (see CH IV Appendix IV-7). Previously, the Division did not require road design for the end of the paved section to the starting points of Sections 2, 3, and 4 or on the approved loadout area due to the area being very flat with no real defined roadways to and from the loadout. All unpaved roads are compacted durable surface. Plan/profile/x-section of this area has been included on Plate IV-8A.

Road System – Other Transportation Facilities

R645-301-534.100-534.200, R645-301-521.170, R645-301-521.180 and R645-301-526 through -526.222: The Permittee shall supply detailed design specification drawings of each of the called out facilities pertinent to this application, i.e. New facilities listed in red on Plate II-1. (Cparker)

See Chapter II replacement pages 5 through 17f and Chapter IV Part IV.B (bond calculation sheets) for the design detail of the existing and New Facilities related to Emery 2 expansion that are listed on Plates II-1, II-1A and II-3.

Support Facilities and Utility Installations

R645-301-534.100-534.200, R645-301-521.170, R645-301-521.180 and R645-301-256 through -526.222: The Permittee shall supply detailed design specification drawings of each of the called out new facilities and references to existing facilities. (Cparker)

See Chapter II replacement pages 5 through 17f and Chapter IV Part IV.B (bond calculation sheets) for the design detail of the existing and New Facilities related to Emery 2 expansion that are listed on Plates II-1, II-1A and II-3.

Maps Facilities

R-645-301-521.180 and R645-301-526 through -526.222: The Permittee shall add narrative to the truck loadout area detailed that presumably no pavement will be associated with the turnaround and also include a detail of the grading and drainage controls associated with the roadway. The Permittee shall add narrative to the reclaim tunnel to explain construction only relevant to the existing amendment of volumes of earthwork required for reclamation. All narratives should reference specific designs of each segment of the facility described, either new or existing drawings. (Cparker)

See Chapter IV Plate IV-8a (Emery 2 Expansion Roads) for detailed design specification drawings pertaining to the new road system. The existing approved roads depicted on Plate IV-8 are shown on this Plate. Plate IV-8 depicts approved roads Sections 1

through 4. Section 1 is paved. Previously the Division did not require road design for the end of the paved section to the starting points of Sections 2, 3 and 4, including the approved loadout area. Plan/profile/x-section of this area has been included on Plate IV-8A.

RECLAMATION PLAN

Bonding and Insurance General

R645-301-534-.100-534.200, R645-301-521.170, R645-301-521.180 and R645-301-526 through -526.222: The Permittee shall supply detailed design specification drawings of each of the called out facilities pertinent to this application, i.e. New facilities listed in red on Plate II-1. (Cparker)

See Chapter II replacement pages 5 through 17f and Chapter IV Part IV.B (bond calculation sheets) for the design detail of the existing and New Facilities related to Emery 2 expansion that are listed on Plates II-1, II-1A and II-3.

Bonding Determination of Amount

R645-301-830.410: The Permittee will update all individual line items to match existing site conditions in 2016 dollars and provide all photographs to the current state of said features. (Bwiser)

See Chapter IV, page 12 and Chapter IV Part IV.B for bond calculations and summary. Photographs of existing structures are provided on Plates II-1 and II-3.

R645-303-211, R645-301-830.100 through -830.140, R645-301-830.410: The Permittee must submit detail cost quotes from a minimum of three parties to utilize a cost reference outside of published construction related cost reference manuals, e.g. R.S. Mean Heavy Construction

Cost references for bond calculations were obtained from the 2016 second quarter R.S. Means v7.8 Heavy Construction, Price Utah (845).

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change ☒ New Permit ☐ Renewal ☐ Exploration ☐ Bond Release ☐ Transfer ☐

Permittee: Bronco Utah Operations LLC (BUOLLC)

Mine: Emery Mine **Permit Number:** 015/0015

Title: e2 Phase I Permitted

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

Permit 015/0015 e2 add coal processing structures at main portal disturbed area def response tsk 5198 6/16

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.

DAN R. BAKER
Print Name

Dan R. Baker PRES.; CEO 6/20/16
Sign Name, Position, Date

Subscribed and sworn to before me this 20 day of JUNE, 2016

Notary Public

My commission Expires: 3-7, 2018

Attest: State of UTAH } ss:
County of CARBON

JOHN CHRISTOPHER PAPPAS
Notary Public, State of Utah
Commission # 674103
My Commission Expires
March 07, 2018

For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining

Form DOGM- C1 (Revised March 12, 2002)

APPLICATION FOR COAL PERMIT PROCESSING
Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee: Bronco Utah Operations LLC (BUOLLC)
Mine: Emery Mine **Permit Number:** 015/015
Title: e2 PhaseI Permitted deficiency response tsk id 5198 06/16

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

			DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED
☐ Add	☒ Replace	☐ Remove	CH II index page
☐ Add	☐ Replace	☐ Remove	
☐ Add	☐ Replace	☐ Remove	
☐ Add	☒ Replace	☐ Remove	CH II pages 5 through 17f
☐ Add	☒ Replace	☐ Remove	CH II Plate II-1, Structures and Facilities Main Portal Area
☒ Add	☐ Replace	☐ Remove	CH II Plate II-1A, Proposed Structures and Facilities Main Portal
☐ Add	☒ Replace	☐ Remove	CH II PLate II-3, 4 East Portal Surface Facilities
☐ Add	☐ Replace	☐ Remove	
☐ Add	☐ Replace	☐ Remove	
☐ Add	☒ Replace	☐ Remove	CH IV tabel of contents
☒ Add	☐ Replace	☐ Remove	CH IV, Plate IV-8A, Emery 2 Phase I Expansion Roads & Conveyor
☐ Add	☐ Replace	☐ Remove	
☐ Add	☐ Replace	☐ Remove	
☐ Add	☒ Replace	☐ Remove	CH IV, Page 12 (bond summary sheet)
☐ Add	☐ Replace	☒ Remove	CH IV, Part IV.B, Demo bond calc sheets (pages 1 through 52)
☒ Add	☐ Replace	☐ Remove	CH IV, Part IV.B, Demo bond calc sheets (pages 1 through 60)
☐ Add	☐ Replace	☐ Remove	
☐ Add	☒ Replace	☐ Remove	CH IV, Part IV.B, Reveg bond calc sheets (pages1 through 3)
☐ Add	☐ Replace	☐ Remove	
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Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.	**Received by Oil, Gas & Mining**

CHAPTER II

OPERATION PLAN

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PLATES

II-l	STRUCTURES AND FACILITIES: MAIN PORTAL AREA	Map Pocket
II-lA	PROPOSED STRUCTURES AND FACILITIES: MAIN PORTAL AREA	Map Pocket
II-2	STRUCTURES AND FACILITIES: REFUSE DISPOSAL AREA	Map Pocket
II-3	4th EAST PORTAL ~~OVERHEAD POWER LINE~~	Map Pocket
II-3a	4 th EAST PORTAL "As-Built"	Map

CHAPTER II OPERATION PLAN

This chapter summarizes the surface facilities and operations which will be utilized during the life of the Emery Mine including the original Main Portal facilities (Plate II-1), the new Emery 2 Expansion facilities (Plate II-1), 4th East Portal facilities (Plate II-3), and the proposed Preparation Plant Facility (new Plate II-1A). Plate II-1 only depicts the original mine portal facilities and the new proposed Emery 2 expansion facilities. New Plate II-1 A depicts the proposed preparation plant facilities only. Removal of structures is discussed in Chapter III under UMC 784.11(b).

Per the Division's request, photo logs have been embedded into Plates II-1 and Plate II-3. These photo logs depict the condition of the existing facilities.

Chapter II pages 5 through 17f have been replaced with pages 5 through 17f. These supporting pages, Plates II-1, II-1A and II-3 have been reordered, renumbered, and reworded and correspond directly with Chapter IV Part IV.B bond calculation sheets.

The numbered facilities appearing in the Facilities Key in Plates II-1 and II-3 have been assigned colors to identify their current state of reclamation. Facilities identified with green text have been removed. Facilities identified with yellow text are partially removed. Facilities identified with black text are existing.

Facilities that have been removed appear only on the map. Existing facilities or partially removed facilities appear on the map, in the operations plan, and in the bond sheets.

II.A STRUCTURES AND FACILITIES

UMC 784.11(b) 784.12

Following is a list and description of the entire surface structures either in use or proposed for the mine. The status of each structure and the map reference are provided at the beginning of each description.

At the 4th East Portal, no surface structures or subsurface utilities existed prior to disturbing the site for excavation of the portal boxcut in 2002, with the exception of subsidence marker (#88-7). This marker was established in 1988 to provide elevation control as part of the subsidence control plan. The marker was replaced with a new marker to provide subsidence monitoring for this section of the underground mine workings. See Chapter IV Appendix IV-7 and Plate IV-8 (Mine Yard Roads) for the existing approved road and drainage design detail.

Main Portal Facilities

Tipple Stacker-Reclaim System
Map Code: 1, Plate II-1
Status: Existing – 3rd quarter 1976

The reclaim system consists of a stationary 48-inch stacking conveyor, ventilated reclaim tunnel, and 48-inch reclaim conveyor.

Coal exiting the mine via conveyor is transferred to the stacking conveyor, which discharges into a surge pile. The reclaim tunnel is located under the surge pile and is equipped with an adjustable feeder belt that withdraws a controlled flow of coal from the surge pile and deposits it upon the reclaim conveyor. The reclaim conveyor then transports coal to the tipple feed system.

All drainage from the reclaim area is diverted to Sedimentation Pond No. 2.

The tipple consists of a 1¼-inch scalping screen, crusher, double deck 1¼"x5/16" sizing screen, 4 product storage bins, and various short-length product conveyors.

Coal is fed to the tipple via the reclaim system. It is initially spilt into 2 flows by the scalping screen. The 1¼"x0" material becomes the "crushed run-of-mine" (CROM) while the +1¼" is crushed to 1¼ x 0".

Tipple Control Station
Map Code: 3, Plate II-1
Status: Existing – prior to 1975

The tipple control station is a small concrete block structure adjacent to the tipple that contains the controls for the tipple and reclaim systems. This structure is within the surface drainage control area.

Surface Storage Tank Containment Area
Map Code: 4, Plate II-1
Status: 3rd quarter 1991

The concrete containment structure measures 50 feet by 23.5 feet, with 3-foot high walls that contains a 6,000-gallon diesel fuel tank and an 8,000-gallon stoker oil tank. Also to be included in this containment structure is an area for outside storage of petroleum products in 5- to 55-gallon drums for use underground as required.

Foreman's Bath House
Map Code: 6, Plate II-1
Status: Existing

The Foreman's Bath House consists of a Steel building on concrete pad. The building dimensions are 45'x24'x9' and 3'x27'x9' with a volume of 10,449 CF.

The concrete floor and sidewalk dimensions are 48'x24'x0.33' and 6'x 30'x0.33' for 444 cubic feet of concrete. The foundation is approximately 30 inches thick and consists of 504 cubic feet of concrete. The cross sectional area is 3.5 square feet and the perimeter is 144 feet.

Evaporation Lagoon
Map Code: Existing Pond No 4 (located in NW quadrant of map), Plate II-1
Status: Existing – 1st quarter 1976, reconstructed 1984/1985

The evaporation lagoon is an earthen structure that covers approximately 1.6 acres of surface area and has a storage capacity of 2.7 acre-feet. The lagoon is formed by a circular 3.5-foot high berm installed on a 1V:3H upstream and downstream slope, with an embankment top width of 12 feet. The evaporation lagoon is no longer in service due to installation of a public water supply, sewer, and county road. The evaporation pond disturbed area is currently part of the Reclamation test plot study per Chapter III pg 4a and Chapter III App 1.

Warehouse-Office Building
Map Code: 11, Plate II-1
Status: Existing – 4th quarter 1978

The warehouse/office building measures approximately 120'x60 x20' and is segmented into three sections. Three-fourths of the available space is devoted to the warehouse, while the remaining space is allocated to the main shop and mine offices.

The offices serve as the headquarters for the mine. The warehouse provides enclosed storage space for small and delicate mine supply items and the main shop is used to perform repairs and routine maintenance on mine equipment.

Surface drainage from the area around this building is controlled by the approved surface drainage control system. Wastewater from the building is cycled through an approved sewage system.

There are approximately 193 cubic yards of concrete between the building pads and foundations.

Bathhouses
Map Code: 12, Plate II-1
Status: Existing – prior to 1975

The bathhouses consist of four units and one empty pad that were converted from trailer-type mobile homes. Each bathhouse is equipped with shower stalls, toilets, sinks, and lockers. The largest of the three units contains a separate installation for female personnel.

Tipple Transformer Building
Map Code: 16, Plate II-1
Status: Existing – 2nd quarter 1977

This building is a 3-sided cement block structure located just east of the silt fence that houses the transformer to reduce the 7200 volts incoming from the mine substation to 480 volts for use at the tipple. This structure is located within the improved drainage control area.

Foreman's/Shift Change Office
Map Code: 19, Plate II-1
Status: Existing – prior to 1975

This structure is an office trailer situated near the warehouse and is located within the approved drainage control area covering the warehouse and supply yard.

Mine Fan Building
Map Code: 20, Plate II-1
Status: Existing – 3rd quarter 1978

The mine fan building is a compartmented metal structure which contains the main fan (8-foot Jeffery, axial flow), motor house and controls, and dueling. The fan building (located at the mine return air opening which has been backfilled and reclaimed) is equipped with an air lock for access, explosion doors, and an emergency diesel power unit. The auxiliary fan (54-inch Joy, axial flow) has been removed.

The main fan was used to ventilate the mine under normal operating conditions. The auxiliary would be used if the main fan became inoperable. The mine fan building was constructed according to MSHA guidelines and is within the approved drainage control area.

Steam Cleaner Building
Map Code: 23, Plate II-1
Status: Existing – prior to 1975

This cement block building houses the steam cleaner unit used to wash down equipment and is located within the approved drainage control area.

Scrap Yard
Map Code: 26, Plate II-1
Status: Existing – 2nd quarter 1979

The scrap yard occupies two areas on the south side of Quitchupah Creek and is used to store old or used equipment. Some of the material is sold to a scrap dealer about once a year. The remaining items are kept on hand for possible use around the mine. The scrap yard is located within the approved surface drainage control area.

Supply Yard
Map Code: 27, Plate 1
Status: Existing – prior to 1975

This supply yard is located south of the warehouse and contains parts and bulk supply items used on a continual basis for either the surface or underground operation. The yard is used to store inventory parts, machinery, and bulk items in a consistent and easily accessible manner. The supply yard is located within the approved surface drainage control area.

Truck Scale
Map Code: 28A, Plate II-1
Status: Existing – 28A: 4th quarter 1989

The truck scale consists of a standard highway scale unit of a size and capacity suitable for weighing medium duty highway coal trucks. Also associated with the scale is a small metal building in which the controls and readout are located. The scale weighs the trucks before and after loading to determine the tonnage of coal being sold. It is calibrated and certified by the State at least once each year. The truck scale is located within the approved surface drainage control area.

Explosives Storage
Map Code: 29, Plate II-1
Status: Existing – prior to 1975

The explosives storage consists of a prefabricated, skid-mounted sheet metal box measuring approximately 6 feet on a side and is equipped with a heavy steel door and lock guard. The explosives magazine is presently located near the scrap yard.

Emery Mine does not currently use explosives for coal production; however, explosives are used from time to time for special projects. Therefore, only a minimal amount is in storage at any given time.

The explosives storage meets MSHA guidelines and is contained within the surface drainage control area.

Coal Stockpile Area
Map Code: 31, Plate II-1
Status: Existing – lower piles prior to 1975
– northwest pile 3rd quarter 1982

The CROM product is discharged into a "live" storage pile at the tipple, where it is either loaded immediately onto trucks with a front-end loader or shuttled to a stockpile.

The mine has three static stockpile areas. The "upper" stockpile located north of Quitchupah Creek in the mine yard has a maximum capacity of 25,000 tons. The "lower" stockpile located south of Quitchupah Creek has a storage capacity of 20,000 tons. The third stockpile is northwest of the mine office near the mine entrance gate. This pile has a capacity of 150,000 tons and is used to handle excess mine production during times of decreased near term coal sales. Under normal operating conditions, approximately 15,000 tons of combined products are stockpiled at any time, with a monthly stockpile flux of about 5,000 tons. This allows adequate surge capacity but eliminates the problems of stockpile fires and the expense of rehandling.

All the stockpile areas are contained within the approved surface drainage control system.

Bridge on Quitchupah Creek
Map Code: 33, Plate II-1
Status: Existing – 3rd quarter 1979

The bridge on Quitchupah Creek is constructed of a multiplate arch on a concrete foundation with concrete wingwalls and is equipped with guardrail and designed to pass 2,230 cfs of water. The bridge was installed to allow access to the stockpile area south of Quitchupah Creek. It replaced two 3-foot diameter culverts determined to be undersized for design flood conditions. This structure was approved for construction by the Utah State Division of Oil, Gas, and Mining on March 19, 1979.

Non-Coal Waste Storage Area
Map Code: 34. Plate II-1
Status: Existing – prior to 1975

The non-coal waste storage area consists of two small pits dug into the side of the hill in the stockpile area south of Quitchupah Creek. The pits measure approximately 20'x40'x10'.

Waste materials such as trash, timbers, and cement blocks are hauled from the mine and temporarily stored in the two waste pits. Periodically, the material is loaded onto coal trucks and hauled to a private landfill that is not controlled by Bronco Utah Operations.

The pits slope into the hill so surface water entering the pit is contained. The storage area is within the approved surface drainage control system.

Parking Area
Map Code 35, Plate II-1
Status: Existing – prior to 1975

The employee parking area is located near the office and bathhouses and provides ample space for employees and visitors. The parking area is within the approved surface drainage control area.

Mine Yard Roads
Map Code: 36, Plate II-1
Status: Existing – prior to 1975

The mine yard road system is comprised of 6 sections. Four are Class I roads and 2 are Class II roads. Section 1 (a paved Class I road) begins at the mine gate and ends at the warehouse office building. Section 2 (a Class II road) branches off Section 1 and accesses the storage area west of the warehouse/office building. Section 3 is a Class I road which starts at the mine yard and accesses the coal storage area south of Quitchupah Creek, crossing an approved bridge over the Creek. Section 4 (a Class II road) is located between the tipple stockpile and ventilation fan building. New Plate IV-8A depicts Section 5 and Mine Yard Road not previously shown, a Class I road that is a continuation of Section 3 and will facilitate access to the Emery 2 expansion portal. As-built cross sections for the Class I roads are contained in Chapter IV.

See Chapter IV Appendix IV-7 and Plate IV-8 (Mine Yard Roads) for the existing approved road and drainage design detail in the main portal area. All these roads are within the approved surface drainage control area and are periodically watered down during dry weather to prevent fugitive dust.

Mine Rescue Storage Area
Map Code: 37, Plate II-l
Status: Existing – prior to 1975

The mine rescue storage area is a steel building that measures approximately 20'x24'x12' with a total volume of approximately 5,760 cubic feet. The floor consists of a concrete pad which measures 24'x18'x 0.5'. The foundation contains approximately 224 cubic feet of non-reinforced concrete. The mine rescue storage area is within the approved surface drainage control and disturbed area.

Material Storage Area
Map Code: 40, Plate II-1
Status: Existing – 4th = quarter 1982

Located east of the bathhouse trailers, this area is used as outside storage for parts, machinery, and bulk items in an orderly and accessible manner. It is located within the approved drainage control area.

Training Site Pad
Map Code: 41, Plate II-1
Status: Existing 2008

This area located near the employee parking area consists of a concrete pad measuring approximately 37'x47'x4" used for annual MSHA training. The training pad area is within the approved surface drainage control and disturbed area.

Existing Mine Substation
Map Code: 42, Plate II-1
Status: Existing – 3rd quarter 1976

The original mine substation is located on top of the north canyon overlooking the mine. It consists of various electrical appliances used to transform high voltage to usable mine power. The substation is enclosed by an 8-foot high fence.

This structure is used to convert high line voltage (69 KV) to 7200 volts AC. One circuit is strictly for the underground mine, while the second circuit supplies power to the surface facilities and the mine fan. The mine substation was installed according to existing electrical codes and MSHA guidelines.

Borehole Pump No. 1
Map Code: 43, Plate II-1 and Plate VI-10B
Status: Existing – prior to 1975

The borehole pump facility consists of a multi-stage deep-well turbine pump, 200 horsepower electric motor, and high-voltage transformer. The pump is rated at 1,200 gallons per operating minute and is used to dewater the underground workings. Water is diverted from the various areas of the mine to the borehole pump. From there, the water is pumped to the surface and through an 8-inch buried PVC line to the mine discharge sedimentation pond (Pond No. 1).

Borehole Pump No. 2
Map Code: Identified by name, Plate VI-10B
Status: Existing – 4th quarter 1986

This borehole pump facility consists of a multi-stage deep-well turbine pump, 200 horsepower electric motor, high voltage transformer, and automatic starter control. A 10-inch buried PVC carries water to Sedimentation Pond No. 1.

Borehole Pump No. 3
Map Code: Plate VI-18 and Plate VI-10A
Status: Existing – 4th quarter 1988

This borehole pump facility consists of a multi-stage deep-well turbine pump, 200 horsepower electric motor, high voltage transformer, and because of the remote location, an automatic starter control. The facility also contains a sedimentation pond (designated as Pond No. 6). A buried 10-inch line conveys pump discharge to the pond. An alternate discharge line taps into the pipe downstream of the pump drive just prior to the buried section and discharges, when required, into the adjacent landowner's irrigation system. This alternate discharge point is incorporated into the NPDES permit as outfall 004. Prior to construction, topsoil and subsoil were salvaged and stockpiled for use in reclamation of the site.

Sewage Pumping Station
Map Code: 44, Plate II-1
Status: Existing – 4th quarter 1975

The mine sewage system consists of a 13,500-gallon septic tank, pump system, and 30,000 ft^2 leach field. The design capacity of the system is 13,500 gallons per day. The system now processes about 7,000 gallons of raw sewage per day produced from the bathhouses and the office/warehouse. The system was approved for construction by the Utah State Department of Health on September 22, 1975.

Transformer Storage Pad
Map Code: 45, Plate II-1
Status: Existing

The transformer storage pad consists of a concrete pad measuring approximately 32'x32'x0.5'.

Power Line
Map Code: 46, Plate II-1
Status: Existing

The power line from the existing mine substation Map code 42 to the 4th East Portal is being reclaimed. 4012 feet of line west and north of the substation remains along with 17 utility poles. Approximately 3900 feet of power line and poles to the 4th East Portal have been removed.

Mine Discharge Sedimentation Ponds
Map Codes: Pond No. 1, Plate II-2
Pond No. 2, Plate II-1
Pond No. 3, Plate II-1
Pond No. 5, Plate II-1Pond No. 6, Plate VI-18
Pond No. 8, Plate II-1
Status: Existing

The sediment pond numbering system in the MRP is not consistent with the NPDES Permit numbering system. For a cross reference and location, please see Plate VI-4 legend.

Pond No. 1 is an excavated sedimentation structure measuring 780 feet long, 140 feet wide, and 8 feet deep at normal pool and is equipped with a concrete inlet and outlet. The sides of the pond are riprapped to prevent wave erosion. This pond settles out particulate matter from mine water

discharged from borehole pumps 1 and 2. Discharge is measured by means of a flume and water samples are also taken monthly. The discharge point is approved by the EPA as outfall 001 of NPDES permit UT-0022616. The pond's design storage volume is 19.3 acre-feet and design flow is 1,401,150 gallons per day with a retention time of 36 hours. This results in an actual storage of 6.4 acre-feet with 12.9 acre-feet remaining for sediment and expansion. Sediment buildup since 1976 has reduced available storage to 16.1 acre-feet. Present flow from the mine averages 370,000 gallons per day.

Pond no. 6 is an excavated structure receiving mine water from borehole pump no. 3. The pond is 300 feet long, 230 feet wide, and 6½ feet deep. Treated water is then discharged into an unnamed tributary of Quitchupah Creek. The pond has both concrete inlet and outlet. The outlet contains a flume and volume readings and water samples are taken monthly. The sides are protected against erosion by riprap. Design storage volume is 10.2 acre-feet with a flow rate of 750 gpm and a retention time of 36 hours. This results in an actual storage for 5.0 acre-feet of water with 5.2 acre-feet remaining for sediment and expansion. Current discharge rates average 250,000 gpd. Two NPDES discharge points under UT-0022616 are approved for the facility. Outfall 003 is the pond outlet and outfall 004 is an alternate discharge point located at the borehole pump, to be used by an adjacent landowner for irrigation. Prior to pond excavation, 6 inches of CBE2 topsoil and 11 inches of BLC2 topsoil were stockpiled. Excess subsoil was also stockpiled for use in reclamation. Each stockpile is protected with a berm.

Proposed Preparation Plant

Map Code: Preparation plant and loadout facilities shown on Plate II-1a
Waste disposal facilities shown on Plate II-2
Status: Proposed

The plant will consist of raw coal washing and crushing facilities and a waste (refuse) disposal system. The plant as described in the following narrative will process 700 tons of coal per hour, which will accommodate an expansion of the mine. As the underground operation proceeds to the south, it may be necessary to improve coal quality through washing to meet existing contractual requirements and expand markets.

The proposed preparation plant will be located above the canyon wall north of the existing facilities. The mine electrical substation and water tank are presently located near the proposed site. Two roads will access the plant: the coal haulage road will be the primary route for exporting coal from the plant and a smaller road will provide employee access. Best available control technology will be used to control fugitive dust emissions from the plant and associated facilities.

The existing 42-inch belt from the mine will feed the 8"x0 run-of-mine (ROM) coal to the existing ROM 48-inch stacker belt. The existing ROM belt will be extended to deliver the ROM coal at a maximum rate of 700 tons per hour (TPH) to the transfer building located at the top of the canyon wall. Two-stage sampling of the raw coal will be located in the transfer building.

The transfer building will divert the ROM coal to one of two 42-inch raw coal storage belts that will deliver the ROM coal via concrete stacking tubes to one of the two storage piles. The east raw coal storage pile which feeds the preparation plant will receive 8"x0 ROM coal. The west raw coal storage pile which feeds the 2,000-ton loadout silo will receive 1¼"x0 ROM coal. The 8"xO ROM coal will be screened and crushed to 1¼"x0 in the transfer building.

Each raw coal pile will be furnished with 4 reclaim feeders which will be used to control the feed from the piles to the 42-inch raw coal reclaim belt and the 42-inch raw coal loadout belt. Each belt will have a maximum rate of 700 TPH. The feeders and reclaim belt will be located in a reinforced concrete tunnel under the piles.

The reclaim belt will then deliver the raw coal to the transfer building to be located at the tail of the 42-inch plant feed belts. Raw coal will be delivered to the plant at the rate of 700 TPH by the plant feed belt.

The 8"x0 raw coal being delivered to the plant will be screened at 3/8". The 3/8"x0 sized coal will be delivered to the clean coal conveyor or stoker belt at the rate of 237 TPH. The 8"x3/8" will report to the pre-wet screen where the remaining minus 3/8" coal will be removed from the 8"x3/8".

The 3/8"x0 coal from the pre-wet screens will be delivered to the "fine coal dewatering circuit" at the rate of 52 TPH. This circuit consists of a series of sieve bends, desliming screen, cyclones, and centrifuges. The desliming screen will be used to scalp out the 28 mesh x 0 material. The 3/8" x 28 mesh material will be fed to the centrifuge for drying. The minus 28 mesh will then be pumped to cyclones for a 100 mesh separation. The 28 mesh x 100 mesh from the cyclone under flow will report to another centrifuge for drying. The minus 100 mesh from the cyclones will be

delivered to the static thickener. Under flow from the thickener will be pumped to the slurry pond at the rate of 3 TPH, 130 GPM. The total 3/8" x 100 mesh product from this circuit will be delivered to the clean coal belt at the rate of 49 TPH.

The 8"x3/8" coal from the pre-wet screens will report to the "coarse coal wash circuit" at the rate of 413 TPH. This circuit consists of a heavy media vessel, drain and rinse screens, centrifuge, clean coal crusher, and magnetic separators for recovery of the magnetite, media used in the wash. The 8"x3/8" size fraction will be processed in the heavy media vessel. The 8"xl¼" heavy media product will be crushed to 1¼"x0 and report to the clean coal belt at the rate of 128 TPH. The 1¼"x3/8" portion of the heavy media product will be centrifuged and delivered to the clean coal belt or stoker belt at the rate of 216 TPH.

The 8"x3/8" coarse refuse from the heavy media vessel will be dewatered on a drain and rinse screen before being sent to the 200-ton refuse bin at the rate of 67 TPH. Coarse refuse will be hauled by a scraper to the refuse disposal area.

A 42-inch clean coal transfer belt will deliver the 1¼"x0 clean product from the plant to a sample building where a 2-stage sampling system will be located. A 42-inch clean coal storage belt will take the coal from the sample building to a 20,000-ton stockpile. A concrete stacking tube will be used to drop the coal into the pile. Clean coal will be loaded from the pile into highway haulage trucks by front-end loaders or fed to the 2,000-ton loadout silo.

The clean coal storage pile will be furnished with 4 reclaim feeders which will be used to control the feed from the pile to the 42-inch clean coal loadout belt. The belt will have a maximum rate of 700 TPH. The feeders and loadout belt will be located in a reinforced concrete tunnel under the pile.

The 2,000-ton loadout silo will load highway haulage trucks. The mine will have the flexibility of loading trucks with raw coal, clean coal or a raw coal, clean coal blend.

The 3/8"x0 size raw coal fraction and the 1¼"x3/8" clean coal size fraction can be diverted to a 36-inch stoker belt. This system will be incorporated into the facilities to allow for projected sales of 40,000 tons per year (TPY) of stoker coal (1¼"x3/8") and modified stoker coal (1¼"x3/8" plus 10-20% of 3/8"x0).

At any given time, the stoker belt will deliver either the 1¼"x3/8" to a 200-ton bin or the 3/8"x0 to a 50-ton bin. The proper size fraction will be diverted to the proper bin when the bin needs to be refilled. A 2-stage sampling system is located above the bins.

Stoker coal and modified stoker coal will be loaded out of the bins to trucks by a 36-inch truck loadout belt. This belt is used so the amount of 3/8"x0 in the modified stoker can be monitored. The belt loadout also allows the coal to be sprayed with oil before being loaded into the trucks.

Underground Development Waste Disposal Site
Map Code: Identified by name, Plate II-1a
Status: Proposed

Underground development wastes currently stored on the northwest coal stockpile site and any new development wastes generated will be permanently buried in this disposal site. This disposal area is a 2.1-acre site located at the gravel borrow pit on the hilltop east of the northwest coal stockpile area. A complete description of this disposal site is given in this part under UMC 784.19, with design information located in Chapter IV.

Emery 2 Expansion Facilities

Mine Substation
Map Code: e1, Plate II-1
Status: Proposed 2016

Electric substation mounted on a concrete pad. The 20 MVA substation is located adjacent to the existing mine substation (Map Code 42). The pad contains 75 cubic yards of concrete. The substation area is within the approved surface drainage control area and disturbed area.

Conveyor 6/Truck Loadout
Map Code: e2, Plate II-1
Status: Proposed 2016

48-inch Conveyor from Screen/Crusher Building to Truck Loadout area. The conveyor is 217 feet long consisting of 122 feet of elevated structure and 95 feet on grade. Two concrete pads with dimensions 16'x12'x3' and 12'x9'x3' (33 cubic yards total) along with metal frame structure support the elevated portion of the belt. Suspended solids contributions will be minimized by utilizing covered conveyors (Plate II-I, photo log P5) and water sprays. The conveyor and loadout area is within the approved surface drainage control area and disturbed area.

Screening & Crushing Facility
Map Code: e3, Plate II-1
Status: Proposed 2016

Screening and crushing equipment with metal support structure mounted on a 46'x26'x3' concrete pad and 10 piers (143 cubic yards total). Equipment structure will have approximate dimensions of 40'x20'x55' high. The facility will receive coal from Conveyor 5 and discharge to Conveyor 6. The Screening & Crushing Facility is within the approved surface drainage control area and disturbed area.

Conveyor 5
Map Code: e4, Plate II-1
Status: Proposed 2016

54-inch conveyor partially elevated and supported by metal frame structure mounted on concrete pads with the remaining conveyor length constructed on grade and within a reclaim tunnel. Four concrete pads and piers with dimensions 20'x20'x3' pad with 8-foot diameter by 4.5-foot high pier, 34'x18'x3' pad with 10-foot diameter by 4.5-foot high pier, 36'x20'x3' pad with 10-foot diameter by 4.5-foot high pier, and 28'x8'x3' pad with 20'x3'x3' pad, for a total of 259 cubic yards.

Conveyor 5 will receive coal from feeders beneath the Conveyor 4/Radial Stacker stockpile and discharge to the Screening and Crushing Facility. Suspended solids contributions will be minimized by utilizing covered conveyors (Plate II-I, photo log P5) and water sprays. Conveyor 5 is within the approved surface drainage control area and disturbed area.

Reclaim Tunnel
Map Code: e5, Plate II-1
Status: Proposed 2016

Corrugated metal tunnel to house a portion of Conveyor 5. The tunnel will be 320 feet long and consist of a 12-foot diameter corrugated metal pipe buried in a backfilled trench. Concrete (141 cubic yards) will be poured to a thickness of 2.7 feet to form a floor surface within the pipe for mounting the conveyor structure. Approximately half the tunnel length will be utilized under the current mine plan. The full length will be utilized during future mine expansion. A 3-foot diameter, 120-foot long escape tunnel is also included with this structure. Coal from the Radial Stacker stockpile will fall through feeders onto Conveyor 5. The Reclaim Tunnel is located within the approved surface drainage control area and disturbed area. Reclamation of the tunnels will consist of excavating cover soil, removing the tunnels, and backfilling the trenches. The cross sectional area of the excavation required for tunnel demolition is 666 square feet for the main tunnel and 232 square feet for the escape tunnel, resulting in 7,893 cubic yards and 1,031 cubic yards of excavation/backfill, respectively. Final surface reclamation costs are included in bond calculations for the entire portal area grading costs.

Conveyor 4/Radial Stacker
Map Code: e6, Plate II-1
Status: Proposed 2016

48-inch radial stacking conveyor supported by metal frame structure. The conveyor will receive coal from the drop chute at the end of Conveyor 2 and discharge to a stockpile. The stacker will travel on a compacted rock surface. The conveyor will be anchored to a concrete pad supporting the drop chute (concrete included with Conveyor 2). Suspended solids contributions will be minimized by utilizing covered conveyors (Plate II-I, photo log P5) and water sprays. Conveyor 4/Radial Stacker is located within the approved surface drainage control area and disturbed area.

Conveyor 2
Map Code: e7p1, Plate II-1
Status: Proposed 2016

60-inch conveyor supported by metal frame structure. A 260-foot portion of the conveyor will be located within the current permit area. The remaining conveyor length will be included in an expanded permit boundary.

The conveyor is elevated and supported by metal framework anchored to 2 concrete pads with dimensions of 36'x20'x3'. A 10-foot diameter, 4.5-foot high concrete pier is mounted on each pad for a total concrete volume (includes the 2 pad/piers) of 186 cubic yards. The drop chute at the end of Conveyor 2 is supported by a 22'x16'x3' concrete pad (39 cubic yards) that also anchors the Radial Stacker. Suspended solids contributions will be minimized by utilizing covered conveyors (Plate II-I, photo log P5) and water sprays. Conveyor 2 is located within the approved surface drainage control area and disturbed area.

Road to Mine Substation
Map Code: Identified on Plate II-1
Status: Existing – prior to 1975

The road to the mine substation is on top of the canyon, north of the mine entrance and is used to access the substation.

This road will be used to access the proposed preparation plant facilities area. The design information to upgrade this structure for use as the plant access road is presented in Chapter IV.

Road to Borehole Pump Facility No. 1
Map Code: Shown on CH IV, Appendix IV-7 and Plate IV-8
Status: Existing – prior to 1975

The road to borehole pump no. 1 is located approximately 3/4 of a mile north of the mine entrance and branches off County Road 9-07. The road is used solely to access and maintain dewatering pump no. 1.

Road to Mine Discharge Sedimentation Pond No. 1
Map Code: Shown on Plate II-2
Status: Existing – 4th quarter 1976

This road (located about ½ mile north of the mine entrance) was used in the past to access Sedimentation Pond No. 1 but a culvert used for crossing Quitchupah Creek was washed out in a flood, thereby making the road impassable.

Upon construction of the preparation plant, the road will be constructed to access the plant waste disposal facilities. The design for rebuilding this road as a coal refuse haulage road is presented in Chapter IV.

4th East Portal Facilities

4 East Mine Access Portal
Map Code: 4E24 Plate II-3 (plan view)
Status: Sealed

This 3-entry portal system has been sealed per MSHA requirements.

Excavated rock was stockpiled around the western perimeter of the open cut and will be used for boxcut backfilling during reclamation. Details of the excavation design and diversion are provided in Chapter IV. Drainage information for the site is covered in Chapter VI.

Topsoil Stockpile & Topsoil Berms
Map Code: 4E09 Plate II-3
Status: Existing

This stockpile (located in the northwest corner of the proposed disturbance) will be fully bermed to contain a 100-year/24-hour rainfall event. The stockpile and berms are sized to contain approximately 7,900 cubic yards of topsoil material. Berms constructed with topsoil make up the north and west portion of the excavation stockpile and the west perimeter of the disturbance boundary. These berms contain approximately 1,400 cubic yards of topsoil.

Excavation Material Stockpile
Map Code: 4E08 Plate II-3
Status: Existing

This stockpile (located on the west edge of the portal excavation) is sized to contain approximately 128,000 cubic yards of material. Material placed in the pile will come from the portal and airshaft excavation. Additional material from the construction of the coal handling facilities may also be placed within the pile. Placement of a material berm will be constructed around the pile to assist in sediment control. The berm shall be constructed with an interior retention basin sized to fully contain a 100-year/24-hour rainfall event. The non-topsoil material will be utilized in the reclamation of the portal entries, backfilling the boxcut excavation and airshaft.

Sediment Pond No. 9
Map Code: 4E10 Plate II-3
Status: Existing

This sediment pond (located in the northeast corner of the 4 East disturbance site) will be partially incised (0.2 ac-ft) of sediment volume. An embankment will be constructed along the west and north sides to provide required storage volume for runoff. This pond is designed to fully contain a 10-year/24-hour storm event. The dewatering of the pond following 24 hours will be through a 15-inch PVC pipe equipped with a slide gate. An emergency spillway has been designed to handle events in excess of a 10-year/24-hour storm.

Coal Handling Facilities & Stockpiles
Map Code: 4E01, 4E02, 4E05, 4E14, 4E15, 4E16, 4E17, and 4E29 Plate II-3
Status: Existing

The coal handling facility at 4 East Portal is being demolished and reclaimed. Conveyor belts and radial stacker have been dismantled and moved to the Main Portal for reuse. The Transfer Point, Crusher/Screening, Recessed Feeder, and Truck Scale structures are partially disassembled and in the process of being relocated. The travel pad for the Radial Stacker and Truck Loadout facility will be removed in the near future. All areas will then be graded and revegetated.

Surface runoff from the 4 East facility is conveyed by berms, pumps, and culverts to Sediment Pond No. 9.

Temporary Stream Diversion - Unaffected Drainage
Map Code: 4E21 Plate II-3
Status: Existing – 3rd quarter 2002

This diversion is proposed as a temporary diversion. The diversion will intercept and divert natural drainage from the upstream watershed around the site. The natural stream is ephemeral.

Supply Yard
Map Code: 4E27 Plate II-3
Status: Existing

This supply yard is located adjacent to the portal ramp and contains parts and bulk supply items used on a continual basis for either the surface or underground operation. The yard is used to store inventory parts, machinery, and bulk items in a consistent and easily accessible manner. The supply yard is located within the proposed surface drainage control area and reports to Sediment Pond No. 9.

Ventilation Fan
Map Code: 4E20 Plate II-3
Status: Existing

The airshaft located in the southwest portion of the disturbance area has been sealed with a concrete cap. The associated exhaust fan and housing is being disassembled and moved to Main Portal for Emery 2 expansion.

Rock Dust Bin
Map Code: 4E13 Plate II-3
Status: Existing

This structure is being moved to Main Portal for Emery 2 expansion. Surface drainage from the bin area reports to Sediment Pond No. 9.

Water Tank
Map Code: 4E19 Plate II-3
Status: Existing

The 100,000-gallon tank measures 25 feet high by 26 feet in diameter and sits upon a concrete base near the southwest corner of the topsoil stockpile. The tank is equipped with an overflow, level indicator, and a bank of valves to direct flow.

The water tank served as a surge tank for surface and underground water supplies. Water from underground was pumped to the tank through a bi-directional pipeline.

Surface drainage from the tank area flows into the northwest corner of the disturbed portal yard where it discharges through a silt fence. The tank is equipped with an automatic level control to eliminate any overflow discharge.

Truck Scale
Map Code: 4E14 Plate II-3
Status: Existing

The truck scale and associated control building are being moved to Main Portal for Emery 2 expansion. Surface runoff from the scale area will report to Sediment Pond No. 9.

Silt Fence
Map Code: identified on Plate II-3
Status: Existing

To treat surface runoff leaving the disturbance area. Provides alternate sediment control for small areas which do not report through Sediment Pond No. 9 or full containment retention basins. The silt fence (located along the north and northwest corner of the disturbance area) controls untreated drainage between the topsoil stockpile and outside slope of Sediment Pond No. 9 and the fence line. The silt fence located in the northwest corner treats drainage off the primary road leading to the ventilation fan site. A small section of silt fence will also be installed along the southern berm to provide a discharge point for the small watershed collected along the berm.

Ventilation Fan Road
Map Code: Identified at CH IV, Appendix IV-7
Status: Existing

Classified as a primary roadway. Light truck traffic will use the road to access the ventilation fan.

Coal Loadout Road
Map Code: Identified at CH IV, Appendix IV-7
Status: Existing

Classified as a primary road. The roadway will enter the loadout along the east fence line from County Road No. 915. Coal trucks will load from the loadout bin and proceed across the scales located near the northeast corner of the permit area. Trucks and other vehicles will exit onto Emery County Road No. 915 (referred to locally as "Cowboy Mine Road"). Drainage off the road will be conveyed to Sediment Pond No. 9.

Jersey Barriers
Status: Existing

These barriers were placed along the perimeter of the stockpile to prevent encroachment of coal fines into the adjacent plant area. They will be moved and used as needed for other operations.

Wind Fence
Map Code: 4E32 Plate II-3
Status: Existing

Wind fences were constructed upstream of the stockpile. The wind fence disrupts the mechanism that causes dust particles to become airborne.

Cattle Guard
Map Code: 4E25 Plate II-3
Status: Existing

Used to assist in collecting solids which may dislodge from truck tires under overly wet or dry conditions. This collection sump makes it less likely for solids to be re-entrained.

Power Line
Map Code: 4E18, Plate II-3
Status: Existing

Approximately 2,100 feet of power and utility poles are located at 4 East within the disturbed area.

Oil Storage
Map Code: 4E28, Plate II-3
Status: Existing

Steel building used for storage of oil containers. The building is 60'x18'x8' with an 8-inch thick concrete floor. Drainage from this area is conveyed to Sediment Pond No. 9.

Substation Pad and Compressor Shed
Map Code: 4E34, Plate II-3
Status: Existing

Concrete pad for electric substation and wooden shed for compressor. Concrete pad volume is 104 cubic yards. The shed dimensions are 12'x16'x8'. Drainage from this area reports to Sediment Pond No. 9.

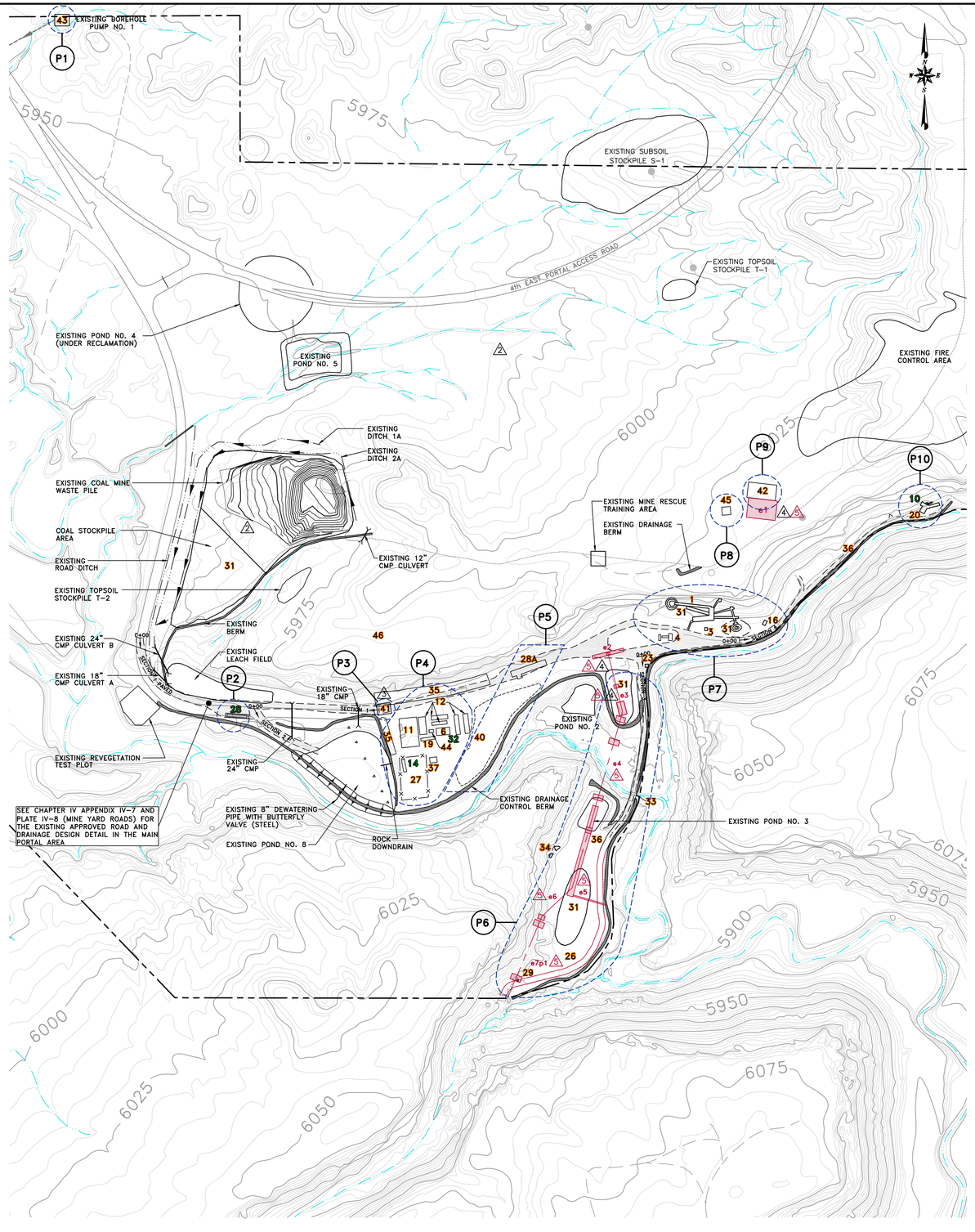
P1

P2

P3

P4

P5

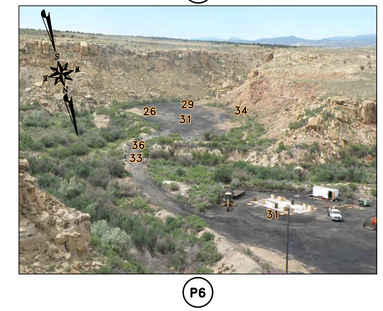


P10

P9

P8

P7



P6

LEGEND

- EXISTING FACILITIES
- PROPOSED FACILITIES
- EXISTING BOREHOLE PUMP WATER LINE
- PERMIT AREA BOUNDARY
- ADJACENT AREA FOR NON-WATER RESOURCES. FOR THE AREA OF HYDROLOGIC EVALUATION, SEE PLATE VI-4
- P11 — PHOTOS TAKEN 9th-10th, JUNE 2016

EXISTING FACILITIES KEY

1	TIPPLE STACKER-RECLAIM SYSTEM
3	TIPPLE CONTROL STATION
4	SURFACE STORAGE TANK CONTAINMENT AREA
6	FOREMAN'S BATH HOUSE
10	RETURN AIR PORTAL
11	WAREHOUSE/OFFICE BUILDING
12	BATHHOUSES
14	STORAGE TRAILERS
16	TIPPLE TRANSFORMER BUILDING
19	FOREMAN'S/SHIFT CHANGE OFFICE
20	MINE FAN BUILDING
23	STEAM CLEANER BUILDING
26	SCRAP YARD
27	SUPPLY YARDS
28	OLD TRUCK SCALE FOUNDATION
28A	TRUCK SCALE
29	EXPLOSIVES STORAGE
31	COAL STOCKPILE AREA
32	SEWAGE TREATMENT SYSTEM
33	BRIDGE ON QUITCHUPAH CREEK
34	NON-COAL WASTE STORAGE AREA
35	PARKING AREA
36	MINE YARD ROADS
37	MINE RESCUE STORAGE AREA
40	MATERIAL STORAGE AREA
41	TRAINING SITE PAD
42	EXISTING MINE SUBSTATION
43	BOREHOLE PUMP FACILITY
44	SEWAGE PUMPING STATION
45	TRANSFORMER STORAGE PAD
46	POWER LINE

NOTE: FACILITIES SHOWN IN GREEN HAVE BEEN REMOVED.
FACILITIES SHOWN IN BLACK ARE EXISTING.

NEW FACILITIES KEY △5

e1	MINE SUBSTATION
e2	CONVEYOR 6/TRUCK LOADOUT
e3	SCREENING AND CRUSHING FACILITY
e4	CONVEYOR 5
e5	RECLAIM TUNNEL
e6	CONVEYOR 4/RADIAL STACKER
e7p1	CONVEYOR 2

REGISTERED PROFESSIONAL ENGINEER
No. 168246
RICHARD B. WHITE
STATE OF UTAH
NOT VALID WITHOUT A SIGNATURE

EarthFax

BASE MAP:

COORDINATE SYSTEM:
STATE PLANE COORDINATES
NAD 83 CONUS
ZONE 4302-UTAH, CENTRAL - US FEET
VERTICAL DATUM - NAVD 88-US FEET

EXTERNAL REFERENCE:

REVISIONS

NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION
3	09/07	JAG	UPDATED MAP	5	05/27	JAG	P2 PHASE 1 PERMITTED (TSK 5198)
2	01/08	JAG	N.O.V. 10005				
1	07/08	JAG	TRAINING SITE PAD				
4	05/16	JAG	e2-CONCRETE PAD (tsk 5197)				

0' 200'
SCALE: 1" = 200'

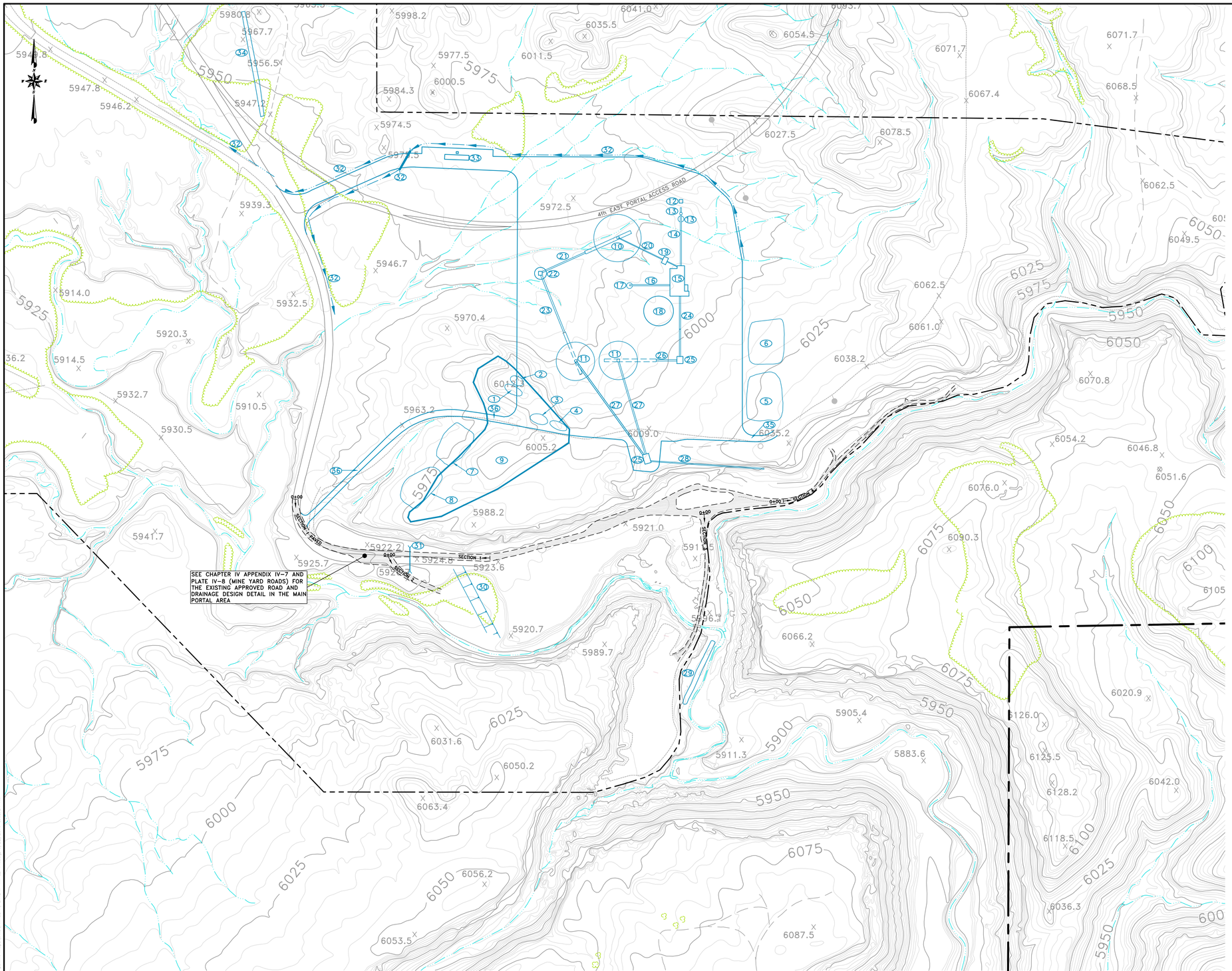
DRAWN BY: SWF
CHECKED BY: JAG
ORIGINAL DATE: 8/90
RE-DRAWN DATE: 9/07
APPROVED BY: JAG
DWG DATA: G:\UC982\15\PLATE II-1-JULY08.DWG 07-23-08

EMERY MINE
EMERY COUNTY, UTAH

PERMIT NO.
ACT015/015

BRONCO UTAH OPERATIONS, LLC
P.O. BOX 1
PRICE, UT 84501

PLATE II-1
STRUCTURES AND FACILITIES
MAIN PORTAL AREA



LEGEND

- PROPOSED FACILITIES
- PERMIT AREA BOUNDARY
- ADJACENT AREA FOR NON-WATER RESOURCES. FOR THE AREA OF HYDROLOGIC EVALUATION, SEE PLATE VI-4

PROPOSED FACILITIES KEY

1. PROPOSED SUBSOIL STOCKPILE T-8
2. PROPOSED SUBSOIL STOCKPILE S-9
3. PROPOSED SUBSOIL STOCKPILE T-9
4. PROPOSED SUBSOIL STOCKPILE T-10
5. PROPOSED SUBSOIL STOCKPILE S-8
6. PROPOSED SUBSOIL STOCKPILE T-7
7. PROPOSED SUBSOIL STOCKPILE S-7
8. PROPOSED SUBSOIL STOCKPILE T-6
9. PROPOSED PERMANENT DEVELOPMENT WASTE DISPOSAL SITE
10. PROPOSED CLEAN COAL STORAGE AREA
11. PROPOSED RAW COAL STORAGE AREA
12. PROPOSED STOKER OIL BUILDING
13. PROPOSED STOKER COAL BINS
14. PROPOSED STOKER COAL BELT
15. PROPOSED PREPARATION PLANT
16. PROPOSED REFUSE BELT
17. PROPOSED 200T REFUSE BIN
18. PROPOSED 120' DIA. THICKENER
19. PROPOSED SAMPLE BUILDING
20. PROPOSED CLEAN COAL STORAGE BELT
21. PROPOSED CLEAN COAL LOADOUT BELT
22. PROPOSED 200OT LOADOUT SILO
23. PROPOSED RAW COAL LOADOUT BELT
24. PROPOSED PLANT FEED BELT
25. PROPOSED TRANSFER BUILDING
26. PROPOSED RAW COAL RECLAIM BELT
27. PROPOSED RAW COAL STORAGE BELT
28. PROPOSED ROM BELT
29. PROPOSED REVEGETATION TEST PLOT FLUME SITE
30. PROPOSED EXCESS CUT MATERIAL DISPOSAL SITE
31. PROPOSED 18" CMP CULVERT
32. PROPOSED PREPARATION PLANT DIVERSION
33. PROPOSED TRUCK SCALE
34. PROPOSED REVEGETATION TEST PLOT BOREHOLE SITE
35. PROPOSED TANK ROAD EXTENSION
36. PROPOSED PREP. PLANT ACCESS ROAD

REGISTERED PROFESSIONAL ENGINEER
No. 168246
RICHARD B. WHITE
NOT VALID WITHOUT A SIGNATURE
STATE OF UTAH

EarthFax

BASE MAP:

COORDINATE SYSTEM:
STATE PLANE COORDINATES.
NAD 83 CONUS
ZONE 4302-UTAH, CENTRAL - US FEET
VERTICAL DATUM - NAVD 88-US FEET

EXTERNAL REFERENCE:

REVISIONS

NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION
1	06/16	JAG	@2 PHASE I PERMITTED (TSK 5198)				

0' 200'
SCALE: 1" = 200'

DRAWN BY: SWF
CHECKED BY: JAG
ORIGINAL DATE: 06/16
RE-DRAWN DATE:
APPROVED BY: JAG
DWG DATA: G:\UC1665\05\PHSE I\ PLATE II-1A.DWG

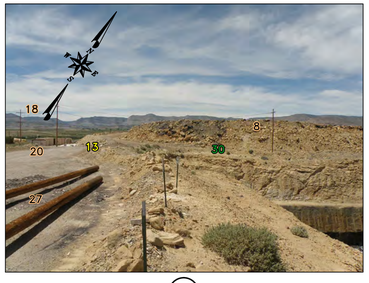
EMERY MINE
EMERY COUNTY, UTAH
PERMIT NO.
ACT015/015

BRONCO UTAH OPERATIONS, LLC
P.O. BOX 1
PRICE, UT 84501

PLATE II-1A
PROPOSED STRUCTURES AND FACILITIES
MAIN PORTAL AREA

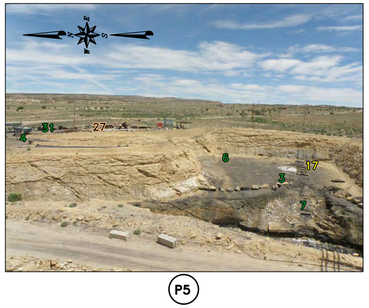
P1

P2



P3

P4



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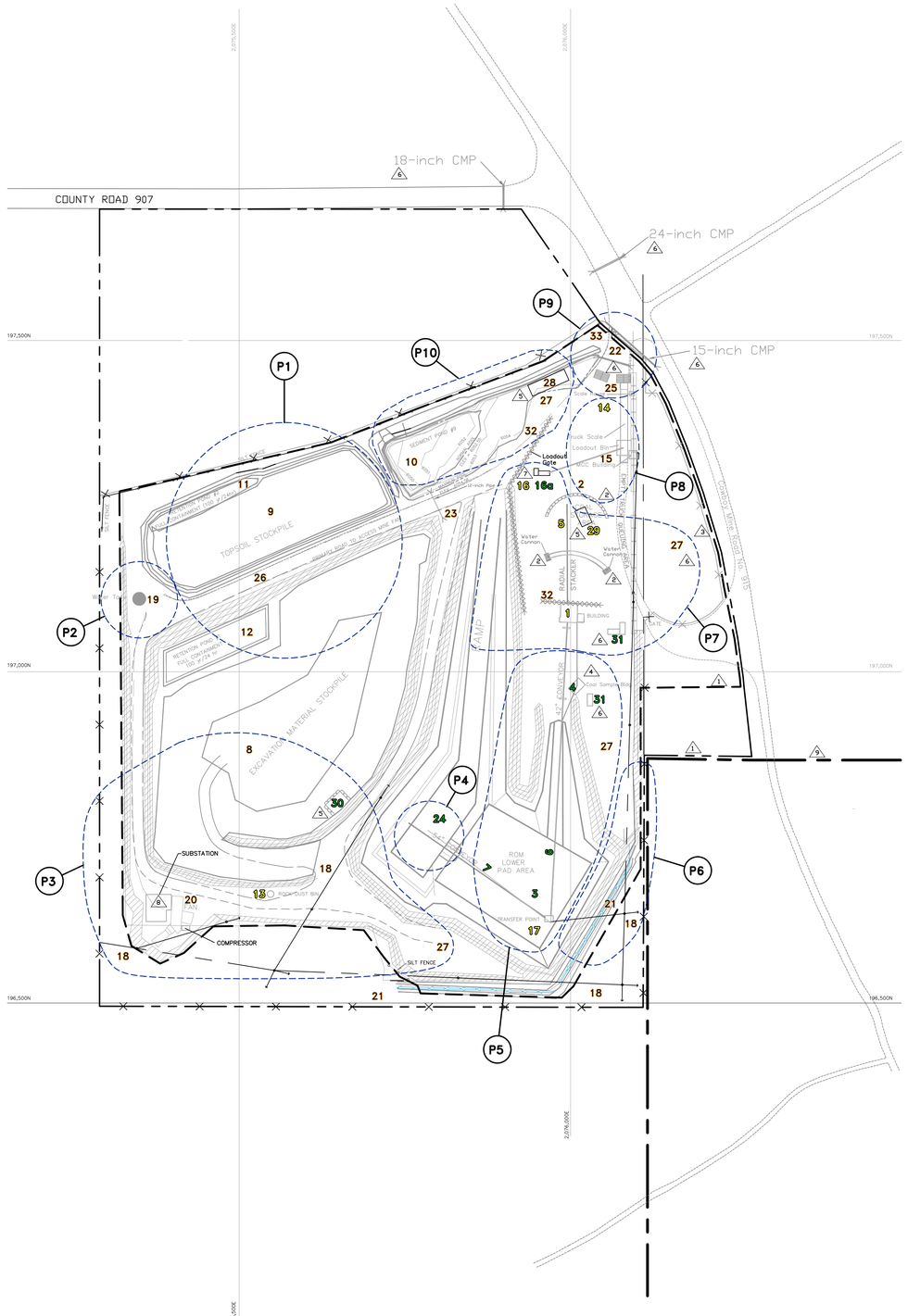
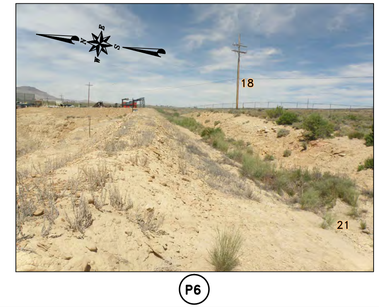


P10

P9

P8

P7



P6

4 EAST PORTAL FACILITIES KEY

BOND SPREADSHEET ID No.	DRAWING ID No. AND NAME
4E01	1 CRUSHER/SCREEN BUILDING
4E02	2 10,000 TON COAL STOCKPILE
4E03	3 2,600 TON COAL STOCKPILE
4E04	4 COAL SAMPLE BUILDING AND CONVEYOR BELT
4E05	5 RADIAL STACKER
4E06	6 42-inch CONVEYOR
4E07	7 54-inch CONVEYOR
4E08	8 EXCAVATION MATERIAL STOCKPILE
4E09	9 TOPSOIL STOCKPILE
4E10	10 SEDIMENT BASIN #9
4E11	11 RETENTION BASIN #2
4E12	12 RETENTION BASIN #1
4E13	13 ROCK DUST BIN
4E14	14 TRUCK SCALE
4E15	15 TRUCK LOADOUT
4E16	16 COAL FEED HOPPER
4E16a	16a LUMP COAL PAD
4E17	17 BELTLINE TRANSFER POINT
4E18	18 POWERLINE
4E19	19 WATER TANK
4E20	20 VENTILATION FAN
4E21	21 TEMPORARY STREAM DIVERSION
4E22	22 CORRUGATED METAL PIPE (18-inch diam.)
4E23	23 CORRUGATED METAL PIPE (12-inch diam.)
4E24	24 3- ENTRY PORTALS
4E25	25 CATTLE GUARD
4E26	26 PRIMARY ACCESS ROAD TO FAN
4E27	27 SUPPLY YARD
4E28	28 OIL STORAGE
4E29	29 RECESSED FEEDER
4E30	30 TRASH PIT
4E31	31 SKID-MOUNTED SHED
4E32	32 WIND FENCE
4E33	33 EXISTING FENCE

NOTE: FACILITIES SHOWN IN GREEN HAVE BEEN REMOVED. FACILITIES SHOWN IN YELLOW ARE PARTIALLY REMOVED. FACILITIES SHOWN IN BLACK ARE EXISTING.

LEGEND

- PERMIT AREA BOUNDARY
- ADJACENT AREA FOR NON-WATER RESOURCES. FOR THE AREA OF HYDROLOGIC EVALUATION, SEE PLATE VI-4
- STREAM DIVERSION (UNAFFECTED DRAINAGE)
- BERM
- DISTURBED AREA (SURFACE AFFECTED)
- EXISTING FENCE
- SILT FENCE
- STRAW/HAY BALES
- WIND FENCE (APPROXIMATE)
- CONCRETE BARRIERS (MOVABLE)
- P8 PHOTOS TAKEN 9th-10th, JUNE 2016

SCALE: 1" = 100'

100 0 100 200 300

REGISTERED PROFESSIONAL ENGINEER
No. 168246
RICHARD B. WHITE
NOT VALID WITHOUT A SIGNATURE
STATE OF UTAH

THIS STAMP ATTESTS TO THE COMPLETION OF REVISIONS 5-10

REV.	DATE	COMMENTS
10	06/16	e2 PHASE I PERMITTED (TSK 5198)
9	05/09	ZZ NORTH, ADJ. VS. PERMIT DEF. 3099
8	12/08	NEW SUBSTATION
7	09/08	LUMP COAL LOADOUT PAD AND GATE
6	02/08	FENCE AND STORAGE AREA, AND MAP UPDATE AND 1/28/08 DEF. RESPONSE
5	10/06	ADDED OIL STORAGE, RECESSED FEEDER AND TRASH PIT
4	02/06	INSIGNIFICANT REVISION (COAL SAMPLE BUILDING)
3	01/04	MODIFICATION RESPONSE TO DOGM DEFICIENCIES 12/10/03
2	10/03	MODIFICATION RESPONSE TO DOGM DEFICIENCIES 10-08-03
1	8/03	ADD 1.5 AC. OF PERMIT AREA OF WHICH 1.0 AC. IS SURFACE DISTURBED AMEND 4th EAST PORTAL CONFIGURATION & STRUCTURES WITH AS-BUILT DRAWING

BRONCO UTAH OPERATIONS, LLC
P.O. BOX 1
PRICE, UT 84501

4 EAST PORTAL SURFACE FACILITIES

MINE EMERY MINE		DATE 10-16-02	REV. 2-16-06
CHKD. TDK		SCALE AS NOTED	
APPD.		DRAWING NO.	FILE
DRAWN TDK	SHEET 1 OF 1	PLATE II-3	II-3_4thCostFacilities

G:\UG1665 - NPN Environmental\05 - Emery Mine permit maps\TAB\PHASE I\PLATE II-3-4E.dwg, 6/21/2016 3:08:26 PM

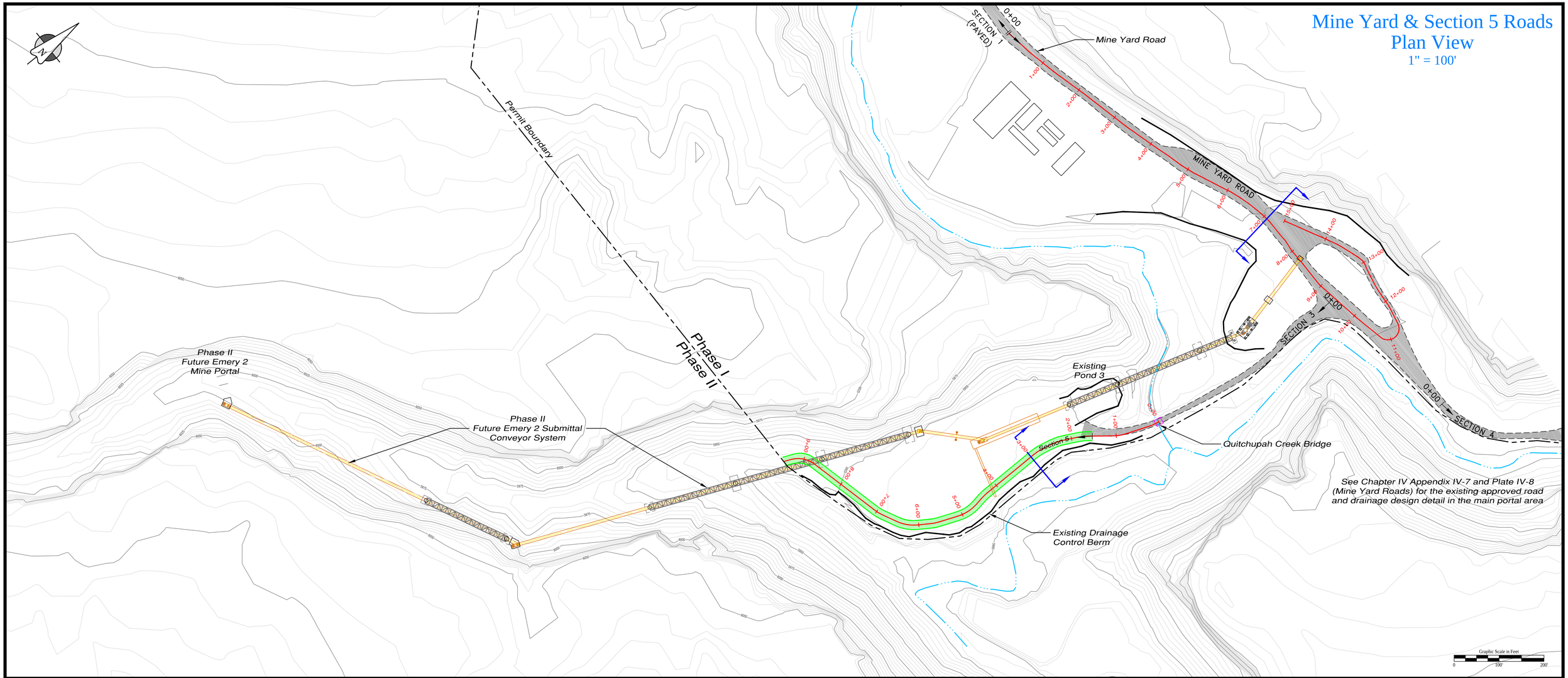
CHAPTER IV - ENGINEERING DESIGNS

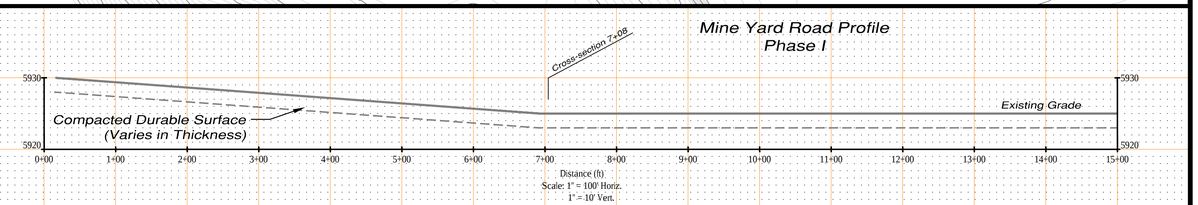
PLATES (In Map Pockets)

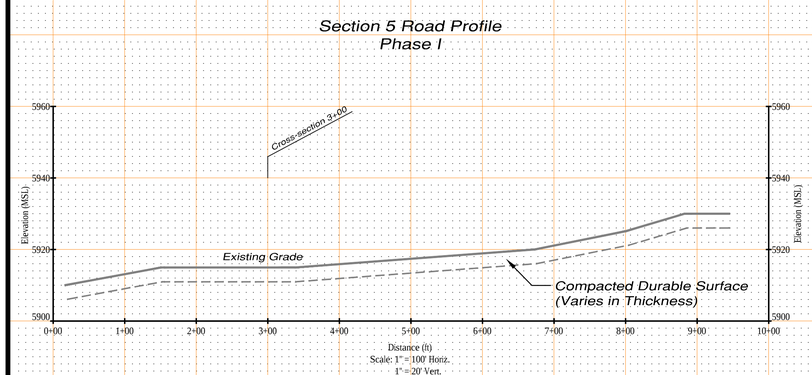
PLATE IV-2	UG OPERATIONS PLAN (scale 1"=1000')
PLATE IV-3	4 EAST PORTAL DESIGN
PLATE IV-4	UNDERGROUND DEVELOPMENT WASTES DISPOSAL SITE CROSS SECTIONS
PLATE IV-5	EXCESS CUT MATERIAL SITE PROJECTED FINAL CONTOURS, PLAN VIEW & CROSS SECTIONS
PLATE IV-6	COARSE REFUSE DISPOSAL AREA PLAN VIEW TYPICAL SECTIONS
PLATE IV-7	SLURRY IMPOUNDMENT
PLATE IV-8	MINE YARD ROADS - ROAD SECTION
PLATE IV-8 a	EMERY 2 PHASE I EXPANSION ROADS AND CONVEYOR
PLATE IV-9	BOREHOLE PUMP ROAD - EXISTING PLAN, PROFILE & CROSS SECTION
PLATE IV-10	PLANT ACCESS & TANK EXTENSION ROADS, PLAN, PROFILE & TYPICAL CROSS SECTION
PLATE IV-11	MAIN ENTRANCE ROAD PREPARATION PLANT SITES, PROPOSED PLAN, PROFILE & SECTIONS
PLATE IV-12	COARSE REFUSE HAULAGE ROAD
FIGURE IV-13	4TH EAST COAL LOADOUT ROAD
FIGURE IV-14	4TH EAST VENTILATION FAN ROAD
FIGURE IV-15	4TH EAST PORTAL TOPSOIL STOCKPILE

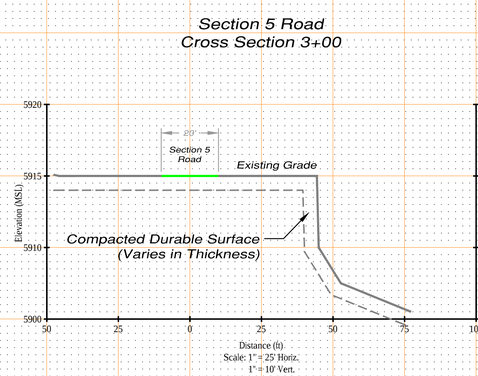
Revised 10/2002
Revised 9/2003
Revised 6/16

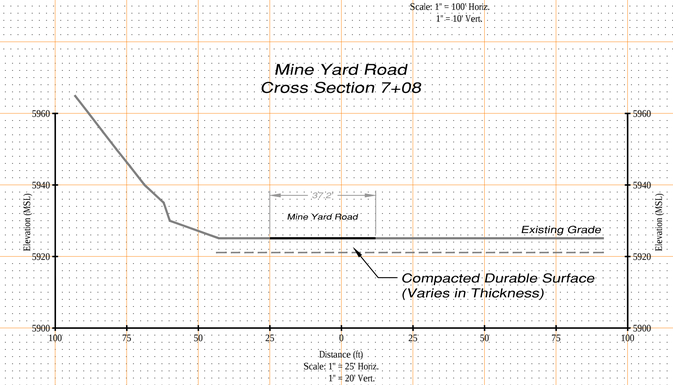
Mine Yard & Section 5 Roads
Plan View
1" = 100'











Drawing Revisions

NO.	DATE	BY	DESCRIPTION

NPN ENVIRONMENTAL

Emery 2 Phase I Expansion
Roads & Conveyor
Plan, Profile & Cross-Sections

SITE:	EMERY MINE	DATE:	JUNE 2016
LOCATION:	EMERY, UTAH	SCALE:	AS SHOWN
PROJECT NO:	C-16141	FILE:	Road Profile - Cross Sections.dwg
DRAWN BY:	SRR	SHEET	1 OF 1
PLATE NO.	IV-8a		

Bonding Calculations

Direct Costs		
Subtotal Demolition and Removal	$418,243.00	
Subtotal Backfilling and Grading	$1,916,150.00	
Subtotal Revegetation	$550,568.00	
Direct Costs	$2,884,961.00	
Indirect Costs		
Mob/Demob	$288,496.00	10.0%
Contingency	$144,248.00	5.0%
Engineering Redesign	$72,124.00	2.5%
Main Office Expense	$196,177.00	6.8%
Project Mainagement Fee	$72,124.00	2.5%
Subtotal Indirect Costs	$773,169.00	26.8%
Total Cost	$3,658,130.00	
Escalation factor		0.007
Number of years (Mid-Term Review 2018)		2
Escalation	$51,393.00	
Reclamation Cost Escalated	$3,709,523.00	
Bond Amount (rounded to nearest $1,000) 2016 Dollars	$3,710,000.00	
Bond Posted 2004 dollars	$3,510,000.00	
Difference Between Cost Estimate and Bond	-$200,000.00	
Percent Difference	-5.39%	

Map Ref.	Description	Cost	New Spreadsheet (NS)	Previous Description
1	Tipple Stacker-Reclaim System 01	$ 56,946		Tipple Stacker Reclaim 01
3	Tipple Control Station 03	$ 645		Tipple Control Station 02
4	Surface Storage Tank Containment Area 04	$ 1,956		Storage Tank Containment Area 21
6	Foreman's Bath House 06	$ 6,870	NS	Foreman's Bath House 06 (mapped, no spreadsheet)
11	Warehouse/Office Building 11	$ 15,588		Warehouse Office Bld 10
12	Bathhouses 12	$ 7,633		Bathhouse 6 Trailers 13
16	Tipple Transformer Building 16	$ 864		Tipple Transformer 03
19	Foreman's/Shift Change Office 19	$ 1,403		Foreman's Office Trailer 09
20	Mine Fan Building 20	$ 3,569		Mine Fan Bld 08
23	Steam Cleaner Building 23	$ 904		Steam Cleaner Bld 04
27	Supply Yards 27	$ 2,248		Fence 26
28A	Truck Scale 28A	$ 3,614		Truck Scale New 15
29	Explosives Storage 29	$ 32		Explosives Storage Bld 12
33	Bridge On Quitchupah Creek 33	$ 5,243		Bridge Quitchupah Creek 16
37	Mine Rescue Storage Area 37	$ 3,895	NS	Mine Rescue Storage Area (mapped, no spreadsheet)
41	Training Site Pad 41	$ 1,597		Rescue Training Pad 47
42	Existing Mine Substation 42	$ 8,026		Mine Substation 06
43	Borehole Pump Facility 43	$ 15,275		Borehole Pump Facility 18
44	Sewage Pumping Station 44	$ 1,018		Sewage Pumping Station 17
45	Transformer Storage Pad 45	$ 1,453		Transformer Storage Pad 05
46	Power Line 46	$ 5,462		Power Line 19
e1	e2 Mine Substation e1	$ 5,729	NS	
e2	e2 Conveyor 6 GA6-H e2	$ 7,445	NS	
e3	e2 Screen-Crush Bld GA10-H e3	$ 26,155	NS	
e4	e2 Conveyor 5 GA-5-H e4	$ 53,326	NS	
e5	e2 Reclaim Tunnel GA-5-H e5	$ 54,557	NS	
e6	e2 Radial Stacker GA-5-H e6	$ 1,530	NS	
e7p1	e2 Conveyor2P1 GA-4-H e7p1	$ 36,278	NS	
4E01	Crusher/Screen Building 4E01	$ 4,934		Crusher Screen Building 28
4E05	Radial Stacker 4E05	$ 3,512		Radial Stacker 30
4E10	Sediment Basin #9_4E10	$ 150		NPDES Outfalls 24
4E13	Rock Dust Bin 4E13	$ 317		Rock Dust Bin 32
4E15	Truck Scale 4E14 & Truck Loadout 4E15	$ 13,181		Loadout 35
4E16	Coal Feed Hopper_4E16	$ 4,577		Concrete Barriers 40
4E17	Beltline Transfer Point_4E17	$ 3,051	NS	Beltline Transfer Point 17 (mapped, no spreadsheet)
4E18	Powerline_4E18	$ 7,721		Power Line 36
4E19	Water Tank_4E19	$ 1,885		Water Tank 100000 Gallon 22
4E20	VentilationFan_4E20	$ 14,884		Ventilation Fan 33
4E22	Corrugated Metal Pipe Culvert_4E22	$ 332	NS	
4E23	Corrugated Metal Pipe Culvert_4E23	$ 190	NS	
4E25	CattleGuard_4E25	$ 826		Cattle Guard 39
4E28	Oil Storage Building_4E28	$ 5,570		Oil Storage Building 42
4E29	RecessedFeeder_4E29	$ 250		Recessed Feeder 43
4E32	Wind Fence 4E32	$ 7,110		Wind Fence 38
4E33	Perimeter Fence_4E33	$ 11,996		Fourth East Fence 45
4E34	Substation Pad & Compressor Shed_4E34	$ 8,497		Substation concrete and compressor shed 48
	NOT MAPPED DELETE Rock Dust Silo 07	$ -		Rock Dust Silo 07
10	DELETE Return Air Portal 10	$ -		Seal Portals 27
14	DELETE_Storage Trailers 14	$ -		Storage Trailers Three 25
	NOT MAPPED DELETE_Metal Storage Bld 20	$ -		Metal Storage Bld 20
28	DELETE_Old Truck Scale Foundation 28	$ -		Truck Scale Old 14
	NOT MAPPED DELETE_Water Tank 31	$ -		Water Tank 31
32	DELETE_Sewage Treatment System 32	$ -		Fresh Water Treatment Bld 11
	NOT MAPPED DELETE_Coal Stockpile Feeder 34	$ -		Coal Stockpile Feeder 34
4E04	DELETE_Coal Sample Building and Conveyor Belt 4E04	$ -		Sampler Building 41
	DELETE_42"(4E06)-54"(4E07)Conveyors	$ -		Conveyor System 29
4E24	DELETE_3- Entry Portal_4E24	$ -		Entrances 4th East 37
4E30	DELETE_TrashPit_4E30	$ -		Trash Pit 44
4E31	DELETE_Skid-MountedSheds_4E31	$ -		Skid Mounted Sheds 46
	Total	$ 418,243		

Ref. ORIG:	Description Tipple Stacker Reclaim 01	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Tipple Stacker-Reclaim System 01																			
	Structure's Demolition Cost	Steel Bld. Large	24116130020	$ 0.34	/CF						996					CY		26892	CF	$ 9,143
	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	Disposal on site	02 41 16 17 4200	$ 10.43	/CY															
	Steel's Weight											112				TON		112	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									7		HR		0.9	Day	$ 290
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 9,433
	Equipment 's Disposal Cost	Steel Bld. Large	24116130020	$ 0.34	/CF	754	5	3										11310	CF	$ 3,845
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs													1		HR		0.1	DY	
	Transport Costs	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day							16				TON		16	TON	$ 32
	Disposal Costs																			
	Subtotal																			$ 3,877
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						305					CY		305	CY	$ 16,964
	Concrete's Vol. Demolished																1.3	397	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													397	CY	$ 770
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	3123 23 20 1014	$ 3.52	/CY													397	CY	$ 1,397
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													397	CY	$ 4,141
	Subtotal																			$ 23,272
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						150					CY		150	CY	$ 8,343
	Concrete's Vol. Demolished																1.3	195	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													195	CY	$ 378
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	3123 23 20 1014	$ 3.52	/CY													195	CY	$ 686
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													195	CY	$ 2,034
	Subtotal																			$ 11,441
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						117					CY		117	CY	$ 6,508
	Concrete's Vol. Demolished																1.3	152	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													152	CY	$ 295
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	3123 23 20 1014	$ 3.52	/CY													152	CY	$ 535
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													152	CY	$ 1,585
	Subtotal																			$ 8,923
	Total																			$ 56,946

Ref. ORIG:	Description Tipple Control Station 02	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Tipple Control Station 03																			
	Structure's Demolition Cost										23					CY		621	CF	$ -
	Structure's Vol. Demolished										5					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													7	TON	$ 49
	Disposal Cost Non Steel	Disposal on site	02 41 16 17 4200	$ 10.43	/CY						6					CY		6	CY	$ 63
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 241
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY													5.25	CY	$ 292
	Concrete's Vol. Demolished																1.3	7	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													7	CY	$ 14
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													7	CY	$ 25
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													7	CY	$ 73
	Subtotal																			$ 404
	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																			$ 645

Ref. ORIG:	Description Storage Tank Containment Area 21	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Surface Storage Tank Containment Area 04																			
	Structure's Demolition Cost										106					CY		2862	CF	$ -
	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											1				TON				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 129
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						24					CY		24	CY	$ 1,335
	Concrete's Vol. Demolished																1.3	31	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													31	CY	$ 60
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													31	CY	$ 109
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													31	CY	$ 323
	Subtotal																			$ 1,827
	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																			$ 1,956

Ref. ORIG:	Description No Spreadsheet	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Foreman's Bath House 06																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0020	$ 0.34	/CF	48	24	9			387.0					CY		10449	CF	$ 3,553
	Structure's Vol. Demolished										40					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY		56	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													56	TON	$ 392
	Disposal Cost Non Steel																			
	Steel's Weight											96				TON		96	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 4,203
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Light Floor's																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	48	28	0.33			16.4					CY		16.4	CY	$ 914
	Concrete's Vol. Demolished																1.3	21	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													21	CY	$ 41
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													21	CY	$ 74
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													21	CY	$ 219
	Subtotal																			$ 1,248
	Heavy Wall's																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	2.5	1.4	144			18.7					CY		18.7	CY	$ 1,038
	Concrete's Vol. Demolished																1.3	24	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													24	CY	$ 47
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													24	CY	$ 84
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													24	CY	$ 250
	Subtotal																			$ 1,419
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			$ 6,870

Ref. ORIG:	Description Warehouse Office Bld 10	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Warehouse/Office Building 11																			
	Structure's Demolition Cost					120	60	20			5496					CY		148392	CF	$ -
	Structure's Vol. Demolished										60					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY		84	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													84	TON	$ 588
	Disposal Cost Non Steel																			
	Steel's Weight											96				TON		96	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 846
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Light Floor's																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	120	60	0.5			133.3					CY		133.3	CY	$ 7,416
	Concrete's Vol. Demolished																1.3	173	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													173	CY	$ 336
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													173	CY	$ 609
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													173	CY	$ 1,804
	Subtotal																			$ 10,165
	Heavy Wall's																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	360	1.5	3			60					CY		60	CY	$ 3,337
	Concrete's Vol. Demolished																1.3	78	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													78	CY	$ 151
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													78	CY	$ 275
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													78	CY	$ 814
	Subtotal																			$ 4,577
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			$ 15,588

Ref. ORIG:	Description Bathhouse 6 Trailers 13	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Bathhouses 12																			
	Structure's Demolition Cost					50	12	10							5	CF		30000	CF	$ -
	Structure's Vol. Demolished											389				CY	0.35			
	Rubble's Weight (exclude steel)												1.4			TON/CY		545	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													545	TON	$ 3,815
	Disposal Cost Non Steel																			
	Steel's Weight											545				TON		545	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 3,944
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	60	9	0.33			6.6				5	CY	1.3	43	CY	$ 2,386
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY						82							82	CY	$ 159
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY						82							82	CY	$ 289
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF						82							82	CY	$ 855
	Subtotal																			$ 3,689
	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																			$ 7,633

Ref. ORIG:	Description Tipple Transformer Bld 03	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Tipple Transformer Building 16																			
	Structure's Demolition Cost					20	10	8			59.3					CY		1600	CF	$ -
	Structure's Vol. Demolished										5					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													7	TON	$ 49
	Disposal Cost Non Steel	Disposal on site	02 41 16 17 4200	$ 10.43	/CY						8					CY		8	CY	$ 83
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 261
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						8					CY		8	CY	$ 445
	Concrete's Vol. Demolished																1.3	10	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													10	CY	$ 19
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													10	CY	$ 35
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													10	CY	$ 104
	Subtotal																			$ 603
	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																			$ 864

Ref. ORIG:	Description Foreman Office Trailer 09	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Foreman's/Shift Change Office 19																			
	Structure's Demolition Cost					58	12	10			6960					CF		6960	CF	$ -
	Structure's Vol. Demolished										130					CY	0.35	130	CY	
	Rubble's Weight (exclude steel)												1.4			TON/CY		182	TOM	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													182	TOM	$ 1,274
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 1,403
	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																			$ 1,403

Ref. ORIG:	Description Mine Fan Bld 08	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Mine Fan Building 20																			
	Structure's Demolition Cost										525					CY		14175	CF	$ -
	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											64				TON				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 129
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						45					CY		45	CY	$ 2,503
	Concrete's Vol. Demolished																1.3	59	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													59	CY	$ 114
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													59	CY	$ 208
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													59	CY	$ 615
	Subtotal																			$ 3,440
	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																			$ 3,569

Ref. ORIG:	Description Steam Cleaner Bld 04	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Steam Cleaner Building 23																			
	Structure's Demolition Cost					8	10	10			29.6					CY		800	CF	$ -
	Structure's Vol. Demolished										5					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													7	TON	$ 49
	Disposal Cost Non Steel	Disposal on site	02 41 16 17 4200	$ 10.43	/CY						4					CY		4	CY	$ 42
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 220
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	8	10	3			8.9					CY		8.888889	CY	$ 494
	Concrete's Vol. Demolished																1.3	12	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													12	CY	$ 23
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													12	CY	$ 42
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													12	CY	$ 125
	Subtotal																			$ 684
	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																			$ 904

Ref. ORIG:	Description Fence 26	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Supply Yards 27																			
	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																			
	Silt Fence Disposal Cost																			
	Silt Fence	Silt fence	31 25 13 10 1000	$ 1.47	LF	0										FT		0	FT	$ -
	Supply Yard Fence	Chain link remove 8'-10'	02 41 13 60 1700	$ 3.91	/LF	575										FT		575	FT	$ 2,248
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			$ 2,248
	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																			$ 2,248

Ref. ORIG:	Description Truck Scale New 15	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Truck Scale 28A																			
	Structure's Demolition Cost					8	6	8			14.2					CY		384	CF	$ -
	Structure's Vol. Demolished										15					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY		21	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													21	TON	$ 147
	Disposal Cost Non Steel																			
	Steel's Weight											32				TON		32	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 405
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	130	12	0.67			38.5					CY		38.5	CY	$ 2,142
	Concrete's Vol. Demolished																1.3	50	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													50	CY	$ 97
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													50	CY	$ 176
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													50	CY	$ 522
	Subtotal																			$ 2,937
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	12	12	0.33			1.8					CY		1.8	CY	$ 99
	Concrete's Vol. Demolished																1.3	2	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													2	CY	$ 4
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													2	CY	$ 7
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													2	CY	$ 21
	Subtotal																			$ 131
	Footer's Demolition																			
	Demolition Cost																			
	Footer's Vol. Demolished	Backfill structural 200 HP 300' Dirt	31 23 23 14 5420	$ 2.02	/CY						70					CY		70	CY	$ 141
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			$ 141
	Total																			$ 3,614

Ref. ORIG:	Description Explosive Storage Bld 12	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Explosives Storage 29																			
	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											4				TON				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									1		HR		0.1	Day	$ 32
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 32
	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																			$ 32

Ref. ORIG:	Description Bridge Quitchupah Creek 16	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Bridge On Quitchupah Creek 33																			
	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																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY						50					CY		50	CY	$ 4,210
	Concrete's Vol. Demolished																1.3	65	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													65	CY	$ 126
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													65	CY	$ 229
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													65	CY	$ 678
	Subtotal																			$ 5,243
	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																			$ 5,243

Ref. ORIG:	Description No Spreadsheet	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Mine Rescue Storage Area 37																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0020	$ 0.34	/CF	24	20	12			213.3					CY		5760	CF	$ 1,958
	Structure's Vol. Demolished										21					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY		29	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													29	TON	$ 203
	Disposal Cost Non Steel																			
	Steel's Weight											96				TON		96	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 2,419
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Light Floor's																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	24	18	0.5			8.0					CY		8.0	CY	$ 445
	Concrete's Vol. Demolished																1.3	10	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													10	CY	$ 19
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													10	CY	$ 35
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													10	CY	$ 104
	Subtotal																			$ 603
	Heavy Wall's																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY	64	1.5	2.33			8.3					CY		8.3	CY	$ 698
	Concrete's Vol. Demolished																1.3	11	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													11	CY	$ 21
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													11	CY	$ 39
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													11	CY	$ 115
	Subtotal																			$ 873
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			$ 3,895

Ref. ORIG:	Description Rescue Training Pad 47	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Training Site Pad 41																			
	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																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	37	47	0.33								ft		21	CY	$ 1,168
	Concrete's Vol. Demolished																1.3	27	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													27	CY	$ 52
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													27	CY	$ 95
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													27	CY	$ 282
	Subtotal																			$ 1,597
	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																			$ 1,597

Ref. ORIG:	Description Mine Substation 06	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Existing Mine Substation 42																			
	Structure's Demolition Cost	300 H. P. (D8)	01 54 33 20 4310	$ 1,708.20	/day															
	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																			
	Remove Substation																			
	Equipment 's Disposal Cost	300 H. P. (D8)	01 54 33 20 4310	$ 1,708.20	/day									2		HR		0.3	Day	$ 512
	Dismantling Cost	Mechanical equipment heavy	25 05 05 10 3600	$ 1,125.00	/ton							2			3	TON		6	TON	$ 6,750
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			$ 7,262
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						10					CY		10	CY	$ 556
	Footer's Vol. Demolished																1.3	13	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													13	CY	$ 25
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.60	/CY													13	CY	$ 47
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													13	CY	$ 136
	Subtotal																			$ 764
	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																			$ 8,026

Ref. ORIG:	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Borehole Pump Facility 18																			
	Borehole Pump Facility 43																			
	Structure's Demolition Cost	Plug Well	AML3	$ 5,000.00	EA.															
	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																			
	Equipment 's Disposal Cost	Plug Well	AML3	$ 5,000.00	EA.										3	EA		3	EA	$ 15,000
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			$ 15,000
	Footer's Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						3.5					CY		3.5	CY	$ 195
	Footer's Vol. Demolished																1.3	5	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													5	CY	$ 10
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													5	CY	$ 18
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													5	CY	$ 52
	Subtotal																			$ 275
	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																			$ 15,275

Ref. ORIG:	Description Sewage Pumping Station 17	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Sewage Pumping Station 44																			
	Structure's Demolition Cost					8	8	9			21.3					CY		576	CF	$ -
	Structure's Vol. Demolished										5					CY				
	Rubble's Weight (exclude steel)												1.4			TON/CY				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													7	TON	$ 49
	Disposal Cost Non Steel	Disposal on site	02 41 16 17 4200	$ 10.43	/CY						6					CY		6	CY	$ 63
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 241
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	8	8	3.5			8.3					CY		8.296296	CY	$ 461
	Concrete's Vol. Demolished																1.3	11	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													11	CY	$ 21
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													11	CY	$ 39
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													11	CY	$ 115
	Subtotal																			$ 636
	Wall's Demolition																			
	Demolition Cost	Backfill structural 200 HP 300' Dirt	31 23 23 14 5420	$ 2.02	/CY						70					CY		70	CY	$ 141
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			$ 141
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			$ 1,018

Ref. ORIG:	Description Transformer Storage Pad 05	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Transformer Storage Pad 45																			
	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																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	32	32	0.5			19.0					CY		18.96296	CY	$ 1,055
	Concrete's Vol. Demolished																1.3	25	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													25	CY	$ 49
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													25	CY	$ 88
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													25	CY	$ 261
	Subtotal																			$ 1,453
	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																			$ 1,453

Ref. ORIG:	Description Power Line 19	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Power Line 46																			
	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																			
	Equipment 's Disposal Cost																			
	Dismantling Cost	Powerpole	02 41 13 80 0100	$ 268.61	EA										17	EA		17	EA	$ 4,566
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			$ 4,566
	Equipment 's Disposal Cost	Wire Removal	26 05 05 10 1900	$ 22.33	CLF	4012										feet		40.12	CLF	$ 896
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			$ 896
	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																			$ 5,462

Ref.	Description **e2 Mine Substation e1**	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	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																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	ConcreteDemo1	$ 55.62	/CY						75					CY		75	CY	$ 4,172
	Concrete's Vol. Demolished																1.3	98	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													98	CY	$ 190
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													98	CY	$ 345
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													98	CY	$ 1,022
	Subtotal																			$ 5,729
	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																			$ 5,729

Ref.	Description **e2 Conveyor 6 GA6-H e2**	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0020	$ 0.34	/CF	217	6	9								CY		11718	CF	$ 3,984
	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															TON		0	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck															HR			Day	$ -
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 3,984
	Equipment 's Disposal Cost																	0	CF	$ -
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs															HR			DY	
	Transport Costs															TON		0	TON	$ -
	Disposal Costs																			
	Subtotal																			$ -
	Pier C6-1																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY	16	12	3			21					CY		21	CY	$ 1,768
	Concrete's Vol. Demolished																1.3	27	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													27	CY	$ 52
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY													27	CY	$ 95
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CY													27	CY	$ 282
	Subtotal																			$ 2,197
	Pier C6-2																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY	12	9	3			12					CY		12	CY	$ 1,010
	Concrete's Vol. Demolished																1.3	16	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													16	CY	$ 31
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY													16	CY	$ 56
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CY													16	CY	$ 167
	Subtotal																			$ 1,264
	Concrete Demolition																			
	Demolition Cost				/CY											CY		0	CY	$ -
	Concrete's Vol. Demolished																	0	CY	
	Loading Cost				/CY													0	CY	$ -
	Transportation Cost				/CY													0	CY	$ -
	Disposal Costs				/CF													0	CY	$ -
	Subtotal																			$ -
	Total																			$ 7,445

Ref.	Description **e2 Screen-Crush Bld GA10-H e3**	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0020	$ 0.34	/CF	40	20	55			1630					CY		44000	CF	$ 14,960
	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															TON		0	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck															HR			Day	$ -
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 14,960
	Equipment 's Disposal Cost																	0	CF	$ -
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs															HR			DY	
	Transport Costs															TON		0	TON	$ -
	Disposal Costs																			
	Subtotal																			$ -
	Pad																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	46	26	3			133					CY		133	CY	$ 7,397
	Concrete's Vol. Demolished																1.3	173	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													173	CY	$ 336
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY													173	CY	$ 609
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CY													173	CY	$ 1,804
	Subtotal																			$ 10,146
	Piers - 10																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY	3	3	3			10					CY		10	CY	$ 842
	Concrete's Vol. Demolished																1.3	13	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													13	CY	$ 25
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY													13	CY	$ 46
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CY													13	CY	$ 136
	Subtotal																			$ 1,049
	Concrete Demolition																			
	Demolition Cost				/CY											CY		0	CY	$ -
	Concrete's Vol. Demolished																	0	CY	
	Loading Cost				/CY													0	CY	$ -
	Transportation Cost				/CY													0	CY	$ -
	Disposal Costs				/CF													0	CY	$ -
	Subtotal																			$ -
	Total																			$ 26,155

Ref.	Description **e2 Conveyor 5 GA-5-H e4**	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Elevated Belt																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0020	$ 0.34	/CF	420	14	12								CY		70560	CF	$ 23,990
	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															TON		0	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck															HR			Day	$ -
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 23,990
	On-grade Belt																			
	Equipment 's Disposal Cost	Steel Bld. Large	02 41 16 13 0020	$ 0.34	/CF	213	6	5								CY		6390	CF	$ 2,173
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs															HR			DY	
	Transport Costs															TON		0	TON	$ -
	Disposal Costs																			
	Subtotal																			$ 2,173
	Pier C5-1																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY	20	20	3			53					CY		53	CY	$ 4,463
	Concrete's Vol. Demolished							4.5	8								1.3	69	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													69	CY	$ 134
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY													69	CY	$ 243
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CY													69	CY	$ 720
	Subtotal																			$ 5,560
	Piers C5-2, 5-3																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY	35	19	3			174					CY		174	CY	$ 14,651
	Concrete's Vol. Demolished							4.5	10								1.3	226	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													226	CY	$ 438
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY													226	CY	$ 796
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CY													226	CY	$ 2,357
	Subtotal																			$ 18,242
	Pier C5-4																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY						32					CY		32	CY	$ 2,694
	Concrete's Vol. Demolished																1.3	42	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													42	CY	$ 81
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY													42	CY	$ 148
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CY													42	CY	$ 438
	Subtotal																			$ 3,361
	Total																			$ 53,326

Ref.	Description **e2 Reclaim Tunnel GA-5-H e5**	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost	Reclaim Tunnel Demolition	02 41 13 40 0200	$ 43.39	LF	440			12							LF		440	CF	$ 19,092
	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															TON		0	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck															HR			Day	$ -
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 19,092
	Tunnel																			
	Equipment 's Disposal Cost	Steel Bld. Large	02 41 16 13 0020	$ 0.34	/CF													0	CF	$ -
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs															HR			DY	
	Transport Costs															TON		0	TON	$ -
	Disposal Costs																			
	Subtotal																			$ -
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	320				19	225					CY		225	CY	$ 12,515
	Concrete's Vol. Demolished																1.3	293	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													293	CY	$ 568
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY													293	CY	$ 1,031
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CY													293	CY	$ 3,056
	Subtotal																			$ 17,170
	Tunnel Cover Excavation																			
	Main Tunnel Excavation Cost	Machine Excavation 1.5 CY	31 23 16 42 0250	$ 2.05	/BCY	320				666	7893					CY		7893	CY	$ 16,181
	Escape Tunnel Excavation Cost	Machine Excavation 1.5 CY	31 23 16 42 0250	$ 2.05	/BCY	120				232	1031					CY		1031	CY	$ 2,114
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY														CY	$ -
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY														CY	$ -
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CY														CY	$ -
	Subtotal																			$ 18,295
	Concrete Demolition																			
	Demolition Cost															CY		0	CY	$ -
	Concrete's Vol. Demolished																	0	CY	
	Loading Cost																	0	CY	$ -
	Transportation Cost																	0	CY	$ -
	Disposal Costs																	0	CY	$ -
	Subtotal																			$ -
	Total																			$ 54,557

Ref.	Description **e2 Radial Stacker GA-5-H e6**	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0020	$ 0.34	/CF	150	6	5								CY		4500	CF	$ 1,530
	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															TON		0	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck															HR			Day	$ -
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 1,530
	Equipment 's Disposal Cost																	0	CF	$ -
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs															HR			DY	
	Transport Costs															TON		0	TON	$ -
	Disposal Costs																			
	Subtotal																			$ -
	Travel Pad																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY											CY		0	CY	$ -
	Concrete's Vol. Demolished																1.3	0	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													0	CY	$ -
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY													0	CY	$ -
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CY													0	CY	$ -
	Subtotal																			$ -
	Concrete Demolition																			
	Demolition Cost				/CY											CY		0	CY	$ -
	Concrete's Vol. Demolished																	0	CY	
	Loading Cost				/CY													0	CY	$ -
	Transportation Cost				/CY													0	CY	$ -
	Disposal Costs				/CF													0	CY	$ -
	Subtotal																			$ -
	Concrete Demolition																			
	Demolition Cost				/CY											CY		0	CY	$ -
	Concrete's Vol. Demolished																	0	CY	
	Loading Cost				/CY													0	CY	$ -
	Transportation Cost				/CY													0	CY	$ -
	Disposal Costs				/CF													0	CY	$ -
	Subtotal																			$ -
	Total																			$ 1,530

Ref.	Description **e2 Conveyor2P1 GA-4-H e7p1**	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0020	$ 0.34	/CF	260	13	12								CY		40560	CF	$ 13,790
	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															TON		0	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck															HR			Day	$ -
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 13,790
	Equipment 's Disposal Cost																	0	CF	$ -
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs															HR			DY	
	Transport Costs															TON		0	TON	$ -
	Disposal Costs																			
	Subtotal																			$ -
	Pier C2-3																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY	36	20	3			93					CY		93	CY	$ 7,831
	Concrete's Vol. Demolished							4.5	10								1.3	121	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													121	CY	$ 235
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY													121	CY	$ 426
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CY													121	CY	$ 1,262
	Subtotal																			$ 9,754
	Pier C2-4																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY	36	20	3			93					CY		93	CY	$ 7,831
	Concrete's Vol. Demolished							4.5	10								1.3	121	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													121	CY	$ 235
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY													121	CY	$ 426
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													121	CY	$ 1,262
	Subtotal																			$ 9,754
	Drop Chute Pad																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	22	16	3			39					CY		39	CY	$ 2,169
	Concrete's Vol. Demolished																1.3	51	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													51	CY	$ 99
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	31 23 23 20 1014	$ 3.52	/CY													51	CY	$ 180
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													51	CY	$ 532
	Subtotal																			$ 2,980
	Total																			$ 36,278

Ref. ORIG:	Description Crusher Screen Building 28	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
28	Crusher/Screen Building 4E01																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.34	/CF	10	12	10			1200					CF		1200	CF	$ 408
	Structure's Vol. Demolished																0.3	13	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									0		HR		1	Day	$ 323
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 731
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						55					CY		55	CY	$ 3,059
	Concrete's Vol. Demolished																1.3	72	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													72	CY	$ 140
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													72	CY	$ 253
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													72	CY	$ 751
	Subtotal																			$ 4,203
	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																			$ 4,934

Ref. ORIG:	Description Radial Stacker 30	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Radial Stacker 4E05																			
	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																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						46					CY		46	CY	$ 2,559
	Concrete's Vol. Demolished																1.3	60	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													60	CY	$ 116
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													60	CY	$ 211
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													60	CY	$ 626
	Subtotal																			$ 3,512
	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																			$ 3,512

Ref. ORIG:	Description NPDES Outfalls 24	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Sediment Basin #9_4E10																			
	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																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Footer's Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						0					CY		0	CY	$ -
	Footer's Vol. Demolished																1.3	0	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													0	CY	$ -
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													0	CY	$ -
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													0	CY	$ -
	Subtotal																			$ -
	Wall's Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						0					CY		0	CY	$ -
	Wall's Vol. Demolished																1.3	0	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													0	CY	$ -
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													0	CY	$ -
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													0	CY	$ -
	Subtotal																			$ -
	Concrete Demolition	add item: Demo 20 LF 18" Diam PVC Pipe																		$ 100
	Demolition Cost	add item: Demo 18" Headgate (sluice gate)																		$ 50
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			$ 150
	Total																			$ 150

Ref. ORIG:	Description Rock Dust Bin 32	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Rock Dust Bin 4E13																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.34	/CF						0					CF		0	CF	$ -
	Structure's Vol. Demolished																0.3	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									2		HR		0	Day	$ -
	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-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY						3					CY		3	CY	$ 253
	Concrete's Vol. Demolished																1.3	4	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													4	CY	$ 8
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													4	CY	$ 14
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													4	CY	$ 42
	Subtotal																			$ 317
	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																			$ 317

Ref. ORIG:	Description Loadout 35	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Truck Scale 4E14 & Truck Loadout 4E15																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.34	/CF						23660					CF		23660	CF	$ 8,044
	Structure's Vol. Demolished																0.3	263	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									33		HR		4.1	Day	$ 1,323
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 9,367
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						50					CY		50	CY	$ 2,781
	Concrete's Vol. Demolished																1.3	65	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													65	CY	$ 126
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													65	CY	$ 229
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													65	CY	$ 678
	Subtotal																			$ 3,814
	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																			$ 13,181

Ref. ORIG:	Description Concrete Barriers 40	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Coal Feed Hopper_4E16																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.34	/CF						0					CF		0	CF	$ -
	Structure's Vol. Demolished																0.3	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									1		HR		0	Day	$ -
	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-Floor	02 41 16 17 0420	$ 55.62	/CY						60.0					CY		60.0	CY	$ 3,337
	Concrete's Vol. Demolished																1.3	78	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													78	CY	$ 151
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													78	CY	$ 275
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													78	CY	$ 814
	Subtotal																			$ 4,577
	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																			$ 4,577

Ref. ORIG:	Description No Spreadsheet	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Beltline Transfer Point_4E17																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.34	/CF						0					CF		0	CF	$ -
	Structure's Vol. Demolished																0.3	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									1		HR		0	Day	$ -
	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-Floor	02 41 16 17 0420	$ 55.62	/CY	10	8	1.5			4.4				9	CY		40.0	CY	$ 2,225
	Concrete's Vol. Demolished																1.3	52	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													52	CY	$ 101
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													52	CY	$ 183
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													52	CY	$ 542
	Subtotal																			$ 3,051
	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																			$ 3,051

Ref. ORIG:	Description Powerline 36	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Powerline_4E18																			
	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																			
	Equipment 's Disposal Cost																			
	Dismantling Cost	Powerpole	02 41 13 80 0100	$ 268.61	EA										27	EA		27	EA	$ 7,252
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			$ 7,252
	Equipment 's Disposal Cost																			
	Dismantling Cost	Wire Removal	26 05 05 10 1900	$ 22.33	CLF	2132										LF		21	CLF	$ 469
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			$ 469
	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																			$ 7,721

Ref. ORIG:	Description Water Tank 100000 Gallon 22	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Water Tank_4E19																			
	Structure's Demolition Cost										490					CY		13230	CF	$ -
	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											32				TON		32	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									3		HR		0.4	Day	$ 129
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 129
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						23					CY		23	CY	$ 1,279
	Concrete's Vol. Demolished																1.3	30	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													30	CY	$ 58
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													30	CY	$ 106
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													30	CY	$ 313
	Subtotal																			$ 1,756
	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																			$ 1,885

Ref. ORIG:	Description Ventilation Fan 33	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	VentilationFan_4E20																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.34	/CF						29167					CF		29167	CF	$ 9,917
	Structure's Vol. Demolished																0.3	324	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									40		HR		5	Day	$ 1,613
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 11,530
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						44					CY		44	CY	$ 2,447
	Concrete's Vol. Demolished																1.3	57	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													57	CY	$ 111
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													57	CY	$ 201
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													57	CY	$ 595
	Subtotal																			$ 3,354
	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																			$ 14,884

Ref. ORIG:	Description Corrugated Metal Pipe Culvert_4E22	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Corrugated Metal Pipe Culvert_4E22																			
	Structure's Demolition Cost	Machine Excavation 3/4 CY	31 23 16 16 6035	$ 18.47	/BCY	63	3	2			14					BCY		14	LF	$ 259
	Structure's Vol. Demolished																	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																			$ 259
	Equipment 's Disposal Cost	CMP - 12-inch	02 41 13 40 0100	$ 2.30	/LF	63										LF		63	LF	$ 145
	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																			$ 332

Ref. ORIG:	Description Corrugated Metal Pipe Culvert_4E23	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Corrugated Metal Pipe Culvert_4E23																			
	Structure's Demolition Cost	Machine Excavation 3/4 CY	31 23 16 16 6035	$ 18.47	/BCY	36	3	2			8					BCY		8	LF	$ 148
	Structure's Vol. Demolished																	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																			$ 148
	Equipment 's Disposal Cost	CMP - 12-inch	02 41 13 40 0100	$ 2.30	/LF	36										LF		36	LF	$ 83
	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																			$ 190

Ref. ORIG:	Description Cattle Guard 39	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	CattleGuard_4E25																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.34	/CF						96					CF		96	CF	$ 33
	Structure's Vol. Demolished																0.3	1	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									4		HR		0.5	Day	$ 161
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 194
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY						6					CY		6	CY	$ 505
	Concrete's Vol. Demolished																1.3	8	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													8	CY	$ 16
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													8	CY	$ 28
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													8	CY	$ 83
	Subtotal																			$ 632
	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																			$ 826

Ref. ORIG:	Description Oil Storage Building 42	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Oil Storage Building_4E28																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.34	/CF	60	18	8								FT		8640	CF	$ 2,938
	Structure's Vol. Demolished																0.3	96	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									2		day		2	Day	$ 645
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 3,583
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY	60	18	0.66								CY		26	CY	$ 1,446
	Concrete's Vol. Demolished																1.3	34	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													34	CY	$ 66
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													34	CY	$ 120
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													34	CY	$ 355
	Subtotal																			$ 1,987
	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																			$ 5,570

Ref. ORIG:	Description Recessed Feeder 43	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	RecessedFeeder_4E29																			
	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																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY	8	1	8			2.4					CY		2.4	CY	$ 202
	Concrete's Vol. Demolished																1.3	3	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													3	CY	$ 6
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													3	CY	$ 11
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													3	CY	$ 31
	Subtotal																			$ 250
	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																			$ 250

Ref. ORIG:	Description Wind Fence 38	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Wind Fence 4E32																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.34	/CF						1300					CF		1300	CF	$ 442
	Structure's Vol. Demolished																0.3	14	CY	
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									4		HR		0.5	Day	$ 161
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			$ 603
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Footer/Foundation	02 41 16 17 1140	$ 84.20	/CY						62					CY		62	CY	$ 5,220
	Concrete's Vol. Demolished																1.3	81	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													81	CY	$ 157
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													81	CY	$ 285
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													81	CY	$ 845
	Subtotal																			$ 6,507
	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																			$ 7,110

Ref. ORIG:	Description Task2929 Forth East Fence 45	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Perimeter Fence_4E33																			
	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																			
	Equipment 's Disposal Cost	Chain link remove 8'-10'	02 41 13 60 1700	$ 3.91	/LF	3068										FT		3068	FT	$ 11,996
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			$ 11,996
	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																			$ 11,996

Ref. ORIG:	Description Task3103 Substation concrete and compressor shed 48	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Substation Pad & Compressor Shed_4E34																			
	Structure's Demolition Cost	Wood Bldg Small	02 41 16 13 0700	$ 0.37	/CF	12	16	8							1	ft		1536	CF	$ 568
	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																			$ 568
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete Demolition-Floor	02 41 16 17 0420	$ 55.62	/CY						104					CY		104	CY	$ 5,784
	Concrete's Vol. Demolished																1.3	135	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													135	CY	$ 262
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													135	CY	$ 475
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													135	CY	$ 1,408
	Subtotal																			$ 7,929
	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																			$ 8,497

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
ORIG:	Rock Dust Silo 07																			
	NOT MAPPED DELETE Rock Dust Silo 07																			
	Structure's Demolition Cost										0					CY		0	CF	$ -
	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											0				TON				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									0		HR		#DIV/0!	Day	#DIV/0!
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			#DIV/0!
	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						0					CY		0	CY	$ -
	Concrete's Vol. Demolished																1.3	0	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													0	CY	$ -
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													0	CY	$ -
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													0	CY	$ -
	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																			#DIV/0!

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
ORIG:	Seal Portals 27																			
	DELETE Return Air Portal 10																			
	Structure's Demolition Cost	Seal Portals	AML1	$ 5,200.00	EA.										0	EA		0	EA	$ -
	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																			$ -
	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																			$ -

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
ORIG:	Storage Trailers Three 25																			
	DELETE_Storage Trailers 14																			
	Structure's Demolition Cost					0	0	0							0	CY		0	CF	$ -
	Structure's Vol. Demolished																0.35	389	CY	
	Rubble's Weight (exclude steel)												0			TON/CY		0	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									0		HR		#DIV/0!	Day	#DIV/0!
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													0	TON	$ -
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			#DIV/0!
	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																			#DIV/0!

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
ORIG:	Metal Storage Bld 20																			
	NOT MAPPED DELETE_Metal Storage Bld	20																		
	Structure's Demolition Cost										0					CY		0	CF	$ -
	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											0				TON				
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									0		HR		#DIV/0!	Day	#DIV/0!
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			#DIV/0!
	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						0					CY		0	CY	$ -
	Concrete's Vol. Demolished																1.3	0	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													0	CY	$ -
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													0	CY	$ -
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													0	CY	$ -
	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																			#DIV/0!

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
ORIG:	Truck Scale Old 14																			
	DELETE_Old Truck Scale Foundation 28																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished										0					CY				
	Rubble's Weight (exclude steel)											0				TON		0	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									0		HR		#DIV/0!	Day	#DIV/0!
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													0	TON	$ -
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			#DIV/0!
	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						0					CY		0	CY	$ -
	Concrete's Vol. Demolished																1.3	0	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													0	CY	$ -
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													0	CY	$ -
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													0	CY	$ -
	Subtotal																			$ -
	Fill to Grade	Backfill structural 200 HP 300' Dirt	31 23 23 14 5420	$ 2.02	/CY						0					CY		0	CY	$ -
	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																			#DIV/0!

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
ORIG:	Water Tank 31																			
	NOT MAPPED DELETE_Water Tank 31																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.35	/CF						0					CF		0	CF	$ -
	Structure's Vol. Demolished																0.3	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									24		HR		0	Day	$ -
	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	ConcreteDemo1	$ 9.92	/CY						0					CY		0	CY	$ -
	Concrete's Vol. Demolished																1.3	0	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													0	CY	$ -
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													0	CY	$ -
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													0	CY	$ -
	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																			$ -

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
ORIG:	Fresh Water Treatment Bld 11																			
	DELETE_Sewage Treatment System 32																			
	Structure's Demolition Cost										0					CY		0	CF	$ -
	Structure's Vol. Demolished										0					CY				
	Rubble's Weight (exclude steel)												0			TON/CY		0	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									0		HR		#DIV/0!	Day	#DIV/0!
	Transportation Cost Non Steel Drive	Nielson Construction	Neilson Con.	$ 7.00	/TON													0	TON	$ -
	Disposal Cost Non Steel																			
	Steel's Weight											0				TON		0	TON	
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			#DIV/0!
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished										0					CY		0	CY	
	Loading Costs																			
	Transport Costs	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									0		HR		#DIV/0!	Day	#DIV/0!
	Disposal Costs	Nielson Construction	Neilson Con.	$ 7.00	/TON							0				TON		0	TON	$ -
	Subtotal																			#DIV/0!
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	$ 9.92	/CY						0					CY		0	CY	$ -
	Concrete's Vol. Demolished																1.3	0	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													0	CY	$ -
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													0	CY	$ -
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													0	CY	$ -
	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																			#DIV/0!

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
ORIG:	Coal Stockpile Feeder 34																			
	NOT MAPPED DELETE_Coal Stockpile Feeder 34																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.35	/CF						0					CF		0	CF	$ -
	Structure's Vol. Demolished																0.3	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									0		HR		#DIV/0!	Day	#DIV/0!
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			#DIV/0!
	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																			#DIV/0!

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
ORIG:	Sampler Building 41																			
	DELETE_Coal Sample Building and Conveyor Belt 4E04																			
	Building	Steel Bld. Large	024116130020	$ 0.35	/CF	0	12	40								FT		0	CF	$ -
	Conveyor	Steel Bld. Large	024116130020	$ 0.35	/CF	0	2	15								FT		0	CF	$ -
	Conveyor	Steel Bld. Large	024116130020	$ 0.35	/CF	0	2	15								FT		0	CF	$ -
	Structure's Vol. Demolished																0.3	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									0		HR		0	Day	$ -
	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	ConcreteDemo1	$ 9.92	/CY	0	12	1								CY		0	CY	$ -
	Concrete's Vol. Demolished																1.3	0	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													0	CY	$ -
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													0	CY	$ -
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													0	CY	$ -
	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																			$ -

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
ORIG:	Conveyor System 29																			
	DELETE_42"(4E06)-54"(4E07)Conveyors																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.35	/CF						0					CF		0	CF	$ -
	Structure's Vol. Demolished																0.3	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									2		HR		0	Day	$ -
	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'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																			$ -

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
ORIG:	Entrances 4th East 37																			
	DELETE_3- Entry Portal_4E24																			
	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																			
	Portals																			
	Equipment 's Disposal Cost	Seal Portals	AML1	$ 5,200.00	EA.										0	EA		0	EA	$ -
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			$ -
	Shaft																			
	Equipment 's Disposal Cost	Seal Shaft	AML2	$ 5,000.00	EA.										0	EA		0	EA	$ -
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			$ -
	Borehole																			
	Equipment 's Disposal Cost	Plug Well	AML3	$ 5,000.00	EA.										0	EA		0	EA	$ -
	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																			
	Total																			$ -

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
ORIG:	Trash Pit 44																			
	DELETE_TrashPit_4E30																			
	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																			
	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						0					CY		0	CY	$ -
	Concrete's Vol. Demolished																1.3	0	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													0	CY	$ -
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													0	CY	$ -
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													0	CY	$ -
	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																			$ -

Ref.	Description Task2929	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
ORIG:	Skid Mounted Sheds 46																			
	DELETE_Skid-MountedSheds_4E31																			
	Structure's Demolition Cost	Steel Bld. Large	024116130020	$ 0.35	/CF	0	16	8							1	ft		0	CF	$ -
		Steel Bld. Large	024116130020	$ 0.35	/CF	0	12	8							2	ft		0	CF	$ -
	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	Truck dump 16 ton payload	01 54 33 20 5300	$ 322.66	/day									0		day		0	Day	$ -
	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	ConcreteDemo1	$ 9.92	/CY						0					CY		0	CY	$ -
	Concrete's Vol. Demolished																1.3	0	CY	
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	$ 1.94	/CY													0	CY	$ -
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	3123 23 20 1014	$ 3.52	/CY													0	CY	$ -
	Disposal Costs	Disposal on site	02 41 16 17 4200	$ 10.43	/CF													0	CY	$ -
	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																			$ -

Ref.	Description	Cost
	Vegetation	
	Main Facilities 01	$ 426,701
	The 4th East Portals 02	$ 123,867
	Total	$ 550,568

Ref.	Description **Main Facilities 01**	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Main Facilities 01																			
	Vegeation																			
	Spread Topsoil	Backfill structural 200 HP 300' Dirt	31 23 23 14 5420	$ 1.82	/CY						43300					CY		43300	CY	$ 78,806
	Till Soil	75 HP Dozerw/scarifiers	32 91 13 23 3100	$ 5.10	MSF						53.7					AC		2339	MSF	$ 11,929
	Seeding	Wildflower Seed Mix	32 92 19 14 5800	$ 36.43	MSF						53.7					AC		2339	MSF	$ 85,210
	Mulch	Hay 1 inch small power mulcher	32 91 13 16 0250	$ 61.01	/MSF						53.7					AC		2339	MSF	$ 142,702
	Fertilizer	Fetilizer Hydro Spread	32 01 90 13 0180	$ 4.74	/MSF						53.7					AC		2339	MSF	$ 11,087
	Erosion Control	Hay bale	Reveg007	$ 166.10	/ton							70				Ton		70	TON	$ 11,627
	Subtotal																			$ 341,361
	Reseeding																			
	25% of Vegetation Cost																			$ 85,340
	Subtotal																			$ 85,340
	Total																			$ 426,701

Ref.	Description **The 4th East Portals 02**	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	The 4th East Portals 02																			
	Vegeation																			
	Seeding	Wildflower Seed Mix	32 92 19 14 5800	$ 36.43	MSF						16					AC		697	MSF	$ 25,392
	Mulch	Hay 1 inch small power mulcher	32 91 13 16 0250	$ 61.01	/MSF						16					AC		697	MSF	$ 42,524
	Fertilizer	Fetilizer Hydro Spread	32 01 90 13 0180	$ 4.74	/MSF						16					AC		697	MSF	$ 3,304
	Erosion Control	Hay bale	Reveg007	$ 166.10	/ton							30				Ton		30	TON	$ 4,983
		Revegetation mat, webbed	31 25 14 16 0120	$ 2.60	SY	300	14									FT		467	SY	$ 1,214
	Subtotal																			$ 77,417
	Reseeding																			
	25% of Vegetation Cost																			$ 46,450
	Subtotal																			$ 46,450
	Total																			$ 123,867