CHAPTER 4
LAND USE AND AIR QUALITY

BANNING LOADOUT
MINE RECLAMATION PLAN

SOLDIER CREEK COAL COMPANY
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(Confidential Folder - CF)

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Revised 5/04
BANNING LOADOUT PERMIT  
Canyon Fuel Co., LLC - Soldier Canyon

CHAPTER 4

LAND USE AND AIR QUALITY

R645-301-400. Land Use and Air Quality  
The Rules in R614-301-400 present the requirements for information related to Land Use and Air Quality which are to be included in each permit application.

R645-301-410. Land Use.  
Each permit application will include descriptions of the premining and proposed postmining land use(s).

R645-301-411. Environmental Description  
R645-301-411.100. Premining Land-Use Information. The application will contain a statement of the condition and capability of the land which will be affected by coal mining and reclamation operations within the proposed permit area, including:

R645-301-411.110. A map and supporting narrative of the uses of the land existing at the time of the filing of the application. If the premining use of the land was changed within five years before the anticipated date of beginning the proposed operations, the historic use of the land will be described;

The facilities are located within the Mud Springs grazing allotment as designated by the BLM (A small portion extends into the east pasture of the Mounds Allotment). Within the Mud Springs grazing allotment, there are 27,859 acres of federal land, 4,800 acres of state land and 1,220 acres of private land. Banning Loadout is situated in the western most part of the allotment and the period of use is from October 20 to June 10. The Mounds allotment contains 22,352 acres of federal land, 2,646 acres of state land and 280 acres of private land, the period of use is from November 16 through April 30 each year.

The proposed permit area for Banning Loadout is within 100 ft. of the Right-Of-Way for U.S. Highway 6-50, which is north of the facilities. State Highway 123 is also within the general area of the facilities, but neither road will be affected by Banning Loadout. Union Pacific Railroad have a main line railroad which runs along the eastern boundary of Banning Loadout. The Applicant holds a lease agreement.
with the railroad to use a portion of their land and to load on a spur adjacent to the main line.

The land uses in this area are mining, railroad, industrial (CO² Plant, ECDC, etc.) roads, grazing and wildlife habitat. These land uses (except industrial) were present for a period of at least 5 years prior to the Applicant's operation and will continue to be present after the closure and reclamation of Banning Loadout. See Exhibits 4-1 and 5-2 for maps detailing described land use at and adjacent to the site.

R645-301-411.120 A narrative of land capability which analyzes the land-use description in conjunction with other environmental resources information required under R645-301-411.100, and R645-301 and R645-302. The narrative will provide analyses of the capability of the land before any coal mining and reclamation operation to support a variety of uses, giving consideration to soil and foundation characteristics, topography, vegetative cover and the hydrology of the area proposed to be affected by coal mining and reclamation operations.

The condition and capability of the land within the permit area is addressed in a letter from George S. Cook of the SCS, which documents the condition and productivity of the site, in Appendix 3-1.

R645-301-411.130. A description of the existing land uses and land-use classifications under local law, if any, of the proposed permit and adjacent areas.

Carbon County zone designations for the area within and adjacent to the Banning Loadout is M&G-1 Zone (Mining and Grazing). A letter confirming this zone designation is included in Appendix 4-1.

R645-301-411.140. Cultural and Historic Resources Information.
The application will contain maps as described under R645-301-411.141 and a supporting narrative which describe the nature of cultural and historic resources listed or eligible for listing in the National Register of Historic Places and known archeological sites within the permit and adjacent areas. The description will be based on all available information, including, but not limited to information from the State Historic Preservation Officer and from local archeological, historic, and cultural preservation agencies.

Information regarding archeological sites within the permit and adjacent areas was obtained from Liz Manion, Archeological Data Manager.
for the Division of State History of the Utah State Historical Society, and is shown in Appendix 4-4.

Further information was obtained by a study contracted by Soldier Creek Coal Company, and performed by the Archeological Environmental Research Corporation. A narrative statement describing the results of that study is included in Appendix 4-3.

R645-301-411.141. Cultural and Historic Resources Maps. These maps will clearly show:

A map showing cultural and historic resources is included as Figure 4-1.

R645-301-411.141.1. The boundaries of any public park and locations of any cultural or historical resources listed or eligible for listing in the National Register of Historic Places and known archeological sites within the permit and adjacent areas;

There are no public parks or cultural or historical resources listed or eligible for listing in the National Register of Historic Places within the permit or adjacent area. The locations of the two archeological sites found are shown in Figure 4-1.

R645-301-411.141.2. Each cemetery that is located in or within 100 feet of the proposed permit area; and

There are no cemeteries located in or within 100 feet of the proposed permit area.

R645.301.411.141.3. Any land within the proposed permit area which is within the boundaries of any units of the National System of Trails or the Wild and Scenic Rivers System, including study rivers designated under section 5(a) of the Wild and Scenic Rivers Act.

There is no land within the permit area which is within the boundaries of any units of the National system of Trails or the Wild and Scenic Rivers System, including study rivers designated under section 5(a) of the Wild and Scenic Rivers Act.

R645-301-411.142. Coordination with the State Historic Preservation Officer (SHPO). The narrative presented under R645-301-411.140 will also describe coordination efforts with and
present evidence of clearances by the SHPO. For any publicly owned parks or places listed on the National Register of Historic Places that may be adversely affected by the proposed coal mining and reclamation operations, each plan will describe the measures to be used:

The results of the archeological survey performed by Archeological-Environmental Research Corporation, as described above, were provided to; the BLM office in Price, Utah; the State Archeologist in Salt Lake City, Utah; the BLM State Archeologist in Salt Lake City, Utah; the BLM District Manager in Moab, Utah; and the BLM District Archeologist in Moab, Utah, in a report shown in Appendix 4-2.

R645-301-411.142.1. To prevent adverse impacts; or

R645-301-411.142.2. If valid existing rights exist or joint agency approval is to be obtained under R645-103-236, to minimize adverse impacts.

No publicly owned parks or places listed on the National Register of Historic Places exists within the permit or adjacent areas.

R645-301-411.143. The Division may require the applicant to identify and evaluate important historic and archeological resources that may be eligible for listing on the National Register of Historic Places through:

R645-301-411.143.1. Collection of additional information;

R645-301-411.143.2. Conducting field investigations; or

R645-301-411.143.3. Other appropriate analyses.

The results of the archeological survey conducted by the Archeological-Environmental Research Corporation are given in Appendix 4-3.

R645-301-411.144. The Division may require the applicant to protect historic or archeological properties listed on or eligible for listing on the National Register of Historic Places through appropriate mitigation and treatment measures. Appropriate mitigation and treatment measures may be required to be taken after permit issuance provided that the required measures are completed before the properties are affected by any mining operation.

Recommendations regarding the protection of archeological properties found on or adjacent to the permit area have been made and forwarded to federal and state archeologists as noted in Appendix 4-2.
The Soldier Creek Coal Company has agreed to adhere to those recommendations and stipulations, as noted, as concerns on archeological sites.

R645.301-411.200. Previous Mining Activity. The application will state whether the proposed permit area has been previously mine, and, if so, the following information, if available:

R645-301-411.210. The type of mining method used;

R645-301-411.220. The coal seams or other mineral strata mined;

R645-301-411.230. The extent of coal or other minerals removed;

R645-301-411.240. The approximate dates of past mining; and

R645-301-411.250. The uses of the land preceding mining.

The permit area has not been used for coal mining activities other than the use as a loadout. Previous to use by the Soldier Creek Coal Company, it was operated as a coal loadout facility in adherence to DOGM standards.

R645-301-412. Reclamation Plan.

R645-301-412.100. Postmining Land-Use Plan. Each application will contain a detailed description of the proposed use, following reclamation, of the land within the proposed permit area, including a discussion of the utility and capacity of the reclaimed land to support a variety of alternative uses, and the relationship of the proposed use to existing land-use policies and plans. The plan will explain:

The land uses within and adjacent to the permit area include mining, roads, railroads, rangeland and wildlife habitat. The operation of Banning Loadout will have no effect on these land uses or any other uses, except for the rangeland and wildlife uses.

Following final reclamation of the site, the affected lands will be returned to a state similar to that of the premining environment. This will be accomplished by adherence to the reclamation plan contained within Sections R645-301-240, 340, 540, and 760. The postmining land
use within what was the permit area will return to rangeland, wildlife and road uses with the exception of the area purchased by East Carbonic Inc. for a CO₂ plant (Exhibits 5-2 and 5-4). All other land uses in the area will not be affected by the operation and will remain as they now exist.

A portion of the Banning permit and disturbed area have been sold to East Carbonic Inc., a Utah corporation. The sales agreement describes the land as SE1/4SE1/4 of Section 16, and E1/2NE1/4 of Section 21 Township 15 South, Range 12 East in Carbon County, Utah (Appendix 1-5, Exhibit A). The sale of this land compels a change in post mining land use for the area. East Carbonic plans to construct and operate a CO₂ plant. In the operation of the CO₂ plant East Carbonics plans to use the substation previously used to operate the Banning Loadout. The substation resides in SE1/4SE1/4 of Section 16 on land belonging to East Carbonics (Exhibits 5-4 and 5-2).

Canyon Fuel Company, LLC has reserved (Purchase and Sales Agreement, Appendix 1-5, Section 2.2 and Exhibit B) a tract of land in SE1/4SE1/4 of Section 16 for the purpose of conducting reclamation activities. Excluding the substation and associated pad, reclamation activities will be performed as described in Chapter 2 and 3 of the M&RP on the remainder of the disturbed area in Section 16 (see Exhibit 5-4). The reclaimed area will meet the success standards outlined under regulation R645-301-356.240 prior to being released from the bond. Upon approval for change in post mining land use of the substation and it’s associated pad area, area will be excluded from the disturbed area (approximately 0.41 acres). The permit area has been reduced by approximately 0.83 acres, which included the 0.41 acres in the disturbed area.
The SCS has determined that there are no prime or important farmlands within or adjacent to the permit area, so no special contingency will be made during reclamation. Soils within the reclaimed land will be redistributed, regraded and revegetated. This will assure the stability and productivity of the land along with maintaining all of the land uses within the area. All reclamation plans will be certified by a professional engineer.

R645-301-412.110. How the proposed postmining land use is to be achieved and the necessary support activities which may be needed to achieve the proposed land use;

Plans for the restoration of land to the pre-mining uses of rangeland and wildlife uses, along with the necessary support activities, are detailed in sections R645-301-240, 340, 540, and 760, which are, the Soils Reclamation Plan, the Biology Reclamation Plan, the Engineering Reclamation Plan, and the Hydrology Reclamation Plan.

R645-301-412.120. For the purposes of SURFACE COAL MINING AND RECLAMATION ACTIVITIES, where range or grazing is the proposed postmining use, the detailed management plans to be implemented;

Banning Loadout is a coal loading facility and as such, this regulation is non applicable.

R645-301-412.130. Where a land use different from the pre-mining land use is proposed, all materials needed for approval of the alternative use under R645-301-413.100 through R645-301-413.334, R645-302-270, R645-302-271.100 through R645-302-271.400, R645-302-271.600, R645-302-271.800, and R645-302-271.900; and

R645-301-412.140. The consideration which has been given to making all of the proposed coal mining and reclamation operations consistent with surface owner plans and applicable Utah and local land-use plans and programs.

With the exception of the area purchased by East Carbonic Inc. for a CO² plant (Exhibits 5-2 and 5-4), the proposed post-mining land use is rangeland, wildlife and roads which is identical to the pre-mining land use and consistent with the use of land adjacent to the permit area,
and consistent with surface owner plans and applicable Utah and local land-use plans and programs.

**R645-301-412.200.** Land Owner of Surface Manager Comments. The description will be accompanied by a copy of the comments concerning the proposed use by the legal or equitable owner of record of the surface of the proposed permit area and Utah and local government agencies which would have to initiate, implement, approve, or authorize the proposed use of the land following reclamation.

Appendix 4-5, contains a letter from BLM stating Post-Mining Land Use. Appendix 1-5, contains information pertaining to the purchase and intended use of the land purchased by East Carbonics Inc.

**R645-301-412.300.** Suitability and Compatibility.
Assure that final fills containing excess spoil are suitable for reclamation and revegetation and are compatible with the natural surroundings and the approved postmining land use.

Refer to Section R645-301-512.210. The Soldier Creek Coal Company will insure, through testing prior to final reclamation, of fills containing excess spoils, that are suitable for reclamation and are compatible with the natural surroundings and the postmining land use.

**R645-301-413.** Performance Standards.
Soldier Creek Coal agrees to implement and abide by all performance standards; R645-301-413.110 through R645-301-413.334.

**R645-301-414.** Interpretation of R645-301-412 and R645-301-413.100 through R645-301-413.334, R645-302-207, R645-302-271.100 through R645-302-271.400, R645-302-271.600, R645-302-271.800, and R645-302-271.900 for the purposes of UNDERGROUND COAL MINING AND RECLAMATION ACTIVITIES, Reclamation Plan: Postmining Land Use. The requirements of R645-301-412-130, for approval of an alternative postmining land use, may be met by requesting approval through the permit revision procedures of R645-303-220 rather than requesting such approval in the original permit application. The original permit application, however, must demonstrate that the land will be returned to its premining land-use capability as required by R645-301-413.100. An application for a permit revision of this type:

Requests for alternate post-mining land-use will be through permit revision procedures of R645-303-220 and the R645-301 regulations.
R645-301-420. Air Quality

R645-301-421. Coal mining and reclamation operations will be conducted in compliance with the requirements of the Clean Air Act (42 U.S.C. Sec. 7401 et seq.) and any other applicable Utah or federal statutes and regulations containing air quality standards.

The Soldier Creek Coal Company will conduct coal mining and reclamation operations at the Banning Loadout facility in compliance with the requirements of the Clean Air Act and any other applicable Utah or federal statutes and regulations containing air quality standards.

R645-301-422. The application will contain a description of coordination and compliance efforts which have been undertaken by the applicant with the Utah Bureau of Air Quality.

An Air Quality Approval Order has been obtained by the Applicant for Banning Loadout from the Utah Department of Health, Division of Environmental Health, Bureau of Air Quality (see Appendix 4-6, DEH letter dated 07/16/80). Operations at the loadout have not changed since the acquisition of the approval order and will continue to comply with the order.

R645-301-423. For all SURFACE COAL MINING AND RECLAMATION ACTIVITIES with projected production rates exceeding 1,000,000 tons of coal per year, the application will contain an air pollution control plan which includes the following:

R645-301-423.100. An air quality monitoring program to provide sufficient data to evaluate the effectiveness of the fugitive dust control practices proposed under R645-301-423.200 to comply with federal and Utah air quality standards; and

See Appendix 4-7 Air Quality Monitoring Plan

R645-301-423.200. A plan for fugitive dust control practices as required under R645-301-244.100 and R645-301-244.300.

See Appendix 4-8 Fugitive Dust Control Plan

R645-301-424. All plans for SURFACE COAL MINING AND RECLAMATION ACTIVITIES with projected production rates of 1,000,000 tons of coal per year or less, will include a plan for fugitive dust control practices as required under R645-301-244 and R645-301.244.300.

The Applicant applied for and received an Air Quality Approval Order for Banning Loadout on July 16, 1980. The facilities are operated in
accordance to the approval order given in Appendix 4-6. While active, the emission inventory for the operation is submitted to the Utah Division of Environmental Health, Bureau of Air Quality. A copy of this emission inventory will be included in the annual report.

The only significant emission to be produced by the operation is particulates. In accordance with the Air Quality approval Order, the emission is partially controlled by the following means:

1. Enclosed truck dump area;
2. Enclosed crusher and water sprays;
3. Water sprays on conveyor belts;
4. Covered conveyor belts;
5. Compaction of long-term coal storage.

Additional fugitive dust control measures are outlined in the Fugitive Dust Control Plan, Appendix 4-8.
APPENDIX 4-1

CARBON COUNTY ZONING DESIGNATIONS
September 9, 1987

Mr. Christopher P. Allen
Mine Engineer
Soldier Creek Coal Co.
P. O. Box I
Price, Utah 84501

Dear Mr. Allen:

I am writing to you, in answer to your letter of September 8, 1987, in which you request the Carbon County zone designations for Sections 15, 16, 21 and 22 in Township 15 South, Range 12 East. The zone that these sections are in is a M&G-1 zone (Mining and Grazing). This letter should satisfy the permitting requirements for the Banning Loadout under the Utah Division of Oil, Gas and Mining guidelines.

If you should have further questions, please feel free to call me.

Yours truly,

[Signature]
Harold R. Murston
County Planner
December 8, 2004

Re: Confidential and Protected Information in MRP, Outgoing File

Dear Mr. Olsen:

The requirements for Confidentiality in the Utah Coal Program are outlined in R645-301-124.300. Confidential information is limited to:

124.310. Information that pertains only to the analysis of the chemical and physical properties of the coal to be mined, except information on components of such coal which are potentially toxic in the environment.

124.320. Information required under section 40-10-10 of the Act that is authorized by that section to be held confidential and is not on public file pursuant to Utah law and that the applicant has request in writing to be held confidential: and


Additionally, according to the Government Records Access Management Act (GRAMA), the location of “historic, cultural or biological resources” must be “protected”. The locations of raptors and threatened and endangered species must be “protected”. Personal information is identified as a “private record” according to GRAMA (i.e. ownership information that contains social security numbers).

Therefore, we are requesting that confidential, protected and private information as identified above be removed from the currently approved MRP. A page clearly identifying what information was removed would be inserted into the MRP noting that the archeological information, for example, is in the Confidential MRP for that mine.

Please handle this administrative action by February 1, 2005. If you have any questions, please call Pamela Grubaugh-Littig (801) 538-5268 or Wayne Hedberg (801) 538-5268.

Sincerely,

Mark Mesch
Acting Associate Director, Mining

Page 2
Confidential Information in MRP
December 8, 2004

All of the confidential, protected and private information should be organized in the “Confidential” MRP volume (binder) by pages where it would be found in the approved MRP.

Mark Mesch
Acting Associate Director, Mining

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5800
telephone (801) 538-5280 • facsimile (801) 538-3960 • TTY (801) 538-7458 • www.ogm.utah.gov
FIGURE 4-1 HAS BEEN REMOVED FROM THIS CHAPTER AND PLACED IN THE CONFIDENTIAL BINDER AT THE UTAH DIVISION OF OIL, GAS AND MINING OFFICE IN SALT LAKE CITY, UTAH
INFORMATION HAS BEEN REMOVED FROM APPENDIX 4-2 AND PLACED IN THE CONFIDENTIAL BINDER AT THE UTAH DIVISION OF OIL, GAS AND MINING OFFICE IN SALT LAKE CITY, UTAH.
INFORMATION HAS BEEN REMOVED FROM APPENDIX 4-3 AND PLACED IN THE CONFIDENTIAL BINDER AT THE UTAH DIVISION OF OIL, GAS AND MINING OFFICE IN SALT LAKE CITY, UTAH.
APPENDIX 4-5

LETTERS CONCERNING POST-MINING LAND USE
Mr. Chris Allen
Sunedco Coal Company
P. O. Box I
Price, Utah 84501

Dear Mr. Allen:

You recently requested a letter from us stating the post-mine land use for the lands within the Banning coal loadout facility right-of-way (UTU-49763). The post-mine land use for this area will be mainly grazing and wildlife habitat. When use of the area has terminated, we would like to see the land reclaimed as required under the terms of the grant and all fences removed.

If you have any additional questions, please feel free to contact Mark Mackiewicz of my staff at 637-4584.

Sincerely yours,

Mark E. Black
Area Manager
February 17, 1989

Mr. Chris Allen
Soldier Creek Coal Company
P.O. Box 1
Price, UT 84501

Dear Chris:

In regards to your inquiry concerning the fences at the Banning loadout facility, the following is provided for you information.

Following final reclamation, it is recommended that all the fences be removed. This will facilitate unincumbered movement of big game over the area. However, such action should be delayed until after two growing seasons have elapsed following revegetation. The new plantings will need protection from livestock use until vegetation is established.

Chris, DOGM guidelines may be more restrictive concerning the length of time that a reclaimed area needs protection from livestock. Regardless, fences should be removed when DOGM determines that the reclamation standards have been met.

Thank you for your interest in Utah’s wildlife resources.

Sincerely,

Larry B. Dalton
Wildlife Program Manager
Resource Analysis/Habitat Protection
LBD/dd

cc: Darrell Nish, DWR
Lowell Braxton, DOGM
Mike Grossjean, State Lands
APPENDIX 4-6

LETTER FROM UTAH BUREAU OF AIR QUALITY
Dear Mr. Pollastro:

On June 4, 1980, the Executive Secretary published a notice of intent to approve your proposed Banning Siding coal crushing and loadout dust control measures. The 30-day public comment period expired July 3, 1980 and no comments were received.

This air quality approval order authorizes the installation and operation of the control facilities at the Banning Siding as proposed in your notice of intent dated May 7, 1980, with the following conditions:

1. Long-term coal storage shall be compacted and the surface sealed with an emulsion or chemical stabilizer.

2. The free-fall distances of the railcar loadout and radial stackers shall be reduced to a minimum by use of tremies or drop-chutes.

3. The crushing and screening operation shall be enclosed or equipped with fog-type sprays and operated as dry weather conditions warrant or as determined necessary by the Executive Secretary to minimize fugitive emissions.

4. Visible Emissions shall not exceed 20% opacity.

5. Emissions from the surge bin feed conveyor shall be controlled by water or fog-type sprays as proposed.
6. Emissions from the load-out surge bin shall be controlled by venting to a baghouse or by fog sprays and shall not exceed 20% opacity.

An initial compliance inspection will be required. Please notify us when your installation is completed (ph. 533-6108) so an inspection can be performed.

Sincerely,

[Signature]

Brent C. Bradford
Executive Secretary
Utah Air Conservation Committee

cc: Southeastern District Health Dept.
EPA/Region VIII (Norman Huey)
APPENDIX 4-7

AIR QUALITY MONITORING PLAN
Dear Mr. Pollastro:

On June 4, 1980, the Executive Secretary published a notice of intent to approve your proposed Banning Siding coal crushing and loadout dust control measures. The 30-day public comment period expired July 3, 1980 and no comments were received.

This air quality approval order authorizes the installation and operation of the control facilities at the Banning Siding as proposed in your notice of intent dated May 7, 1980, with the following conditions:

1. Long-term coal storage shall be compacted and the surface sealed with an emulsion or chemical stabilizer.

2. The free-fall distances of the railcar loadout and radial stackers shall be reduced to a minimum by use of tremies or drop-chutes.

3. The crushing and screening operation shall be enclosed or equipped with fog-type sprays and operated as dry weather conditions warrant or as determined necessary by the Executive Secretary to minimize fugitive emissions.

4. Visible Emissions shall not exceed 20% opacity.

5. Emissions from the surge bin feed conveyor shall be controlled by water or fog-type sprays as proposed.
6. Emissions from the load-out surge bin shall be controlled by venting to a baghouse or by fog sprays and shall not exceed 20% opacity.

An initial compliance inspection will be required. Please notify us when your installation is completed (ph. 533-6108) so an inspection can be performed.

Sincerely,

Brent C. Bradford  
Executive Secretary  
Utah Air Conservation Committee

cc: Southeastern District Health Dept.  
EPA/Region VIII (Norman Huey)
BANNING SIDING

Description of Siding (see maps)

The siding located at Banning, Utah, (T15S, R12E, Section 15 & 16) is used as a stockpile yard and train loadout facility for Soldier Creek Coal Company. The raw product is mine run coal (4" x 0) hauled to the siding from the Soldier Canyon Mine located 18 miles away. It is transported in double trailered end and bottom dump trucks which discharge their loads into a 100 ton hopper which feeds the crusher conveyor. The crusher sizes the coal to the finish product (2" x 0) and discharges the coal onto the radial stacking conveyor. This conveyor builds a pile over a reclaim tunnel which feeds a surge bin located over the tracks. This comprises the primary train loading system. There is, however, a screening and loading facility used for processing stoker coal (1 1/4" x 3/8"). This system utilizes an open hopper feeder situated under the main radial conveyor. This feeder discharges into a small surge bin and then onto the screens. There are two radial conveyors connected to the screen assembly—one for the over and undersized product and the other for the finish product. The finish product belt then discharges onto a feed conveyor that empties into the railroad cars.

The loading procedures for the screening plant can also be accomplished by means of a front-end loader discharging into the surge bin.

Quantities
Tons Hauled Per Day = 2,800 Tons
Tons Shipped Per Day (Total) = 1,800 Tons
   Main Loadout = 1,600 Tons
   Auxiliary Loadout = 200 Tons
Tons Stockpiled (As of 5/1/80) = 340,000 Tons

Emissions
The only expected emissions from the facility is fugitive dust from the discharge points. The location of the loadout is in an arid surrounding with the closest structure being a small ranch about 3.75 miles away. The emissions have a 0% chance of reaching this structure. The only period of high emissions is during the short-term situation when handling hot stock-piled coal.
Location and Elevation of Discharge

Main Radial Pile 0 - 65 feet (average 20 feet)
Main Loadout System 0 - 1 foot*
Auxiliary Loadout System 8 - 10 feet*
*Measured from head pulley to top of car

All conveyor systems with the exception of the screening facility are covered therefore reducing the possibility for fugitive dust. All main roadways are hard surfaced and well maintained.

Operating Schedule

The siding is operated five days a week, sixteen hours a day. Three full-time employees operate the facility with ten drivers hauling from the mine. A normal week would entail loading four 2,000 ton trains of 2" x 0 coal with the main loadout system and one 900 ton train of stoker coal with the auxiliary loadout. The loading time would be approximately 1 hour for a 2,000 ton train and 3 1/2 hours for a stoker train. The remainder of the employees' time would be spent in stockpiling, screening, and maintaining the facility. The loadout facility has been in operation since June of 1976.
March 2, 1993

Mr. Tom Paluso
Soldier Creek Coal Co.
P.O. Box 1
Price, Ut. 84501

Re: Visual Emissions
Soldier Creek Mine &
Banning Loadout

Dear Mr. Paluso:

Please find attached my evaluation of each potential source for ambient dust and/or particulate matter associated with the Soldier Creek Mine and Banning Loadout facility.

Based on my evaluation given current weather and loading conditions, I could not identify any potential problems.

If you have any questions or concerns, please call me at (801) 472-3814.

Certification Date 8/27/81

Sincerely,

Melvin A. Coonrod
V.P. E.I.S.

MC/njc
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<th>Moisture Content</th>
<th>Quantity (Units/yr)</th>
<th>Emission Rate</th>
<th>Operating Time</th>
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<th>Actual Rate</th>
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<td>6.3</td>
<td>2422.3</td>
<td></td>
<td>1325</td>
<td>400</td>
<td>319</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radial Stacker (water Spray)</td>
<td>6.3</td>
<td>2422.3</td>
<td></td>
<td>1325</td>
<td>400</td>
<td>319</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reclaim Belt (covered &amp; Water) Spray</td>
<td>6.3</td>
<td>2422.3</td>
<td></td>
<td>1325</td>
<td>3890</td>
<td>1432</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Train Car Load-Out Bin (water Spray)</td>
<td>6.3</td>
<td>2422.3</td>
<td></td>
<td>1325</td>
<td>3000</td>
<td>1432</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Calculations for Truck Hopper, Hopper Belt, Radial Stacker.

TSP = .73 = .74 (.0032) \frac{(8.7/5) 1.3}{(6.3/2) 1.4} \frac{(422,345)}{2000}

PM10 = .35 = .35 (.0032) \frac{(8.7/5) 1.3}{(6.3/2) 1.4} \frac{(422,345)}{2000}

Calculations for Crusher.

TSP = .28 = .28 (.0032) \frac{(8.7/5) 1.3}{(6.3/2) 1.4} \frac{(422,345)}{2000}

PM10 = .017 = .017 (.0032) \frac{(8.7/5) 1.3}{(6.3/2) 1.4} \frac{(422,345)}{2000}

Calculations for Reclaim Belt, Train Car Load Out Bin.

TSP = .67 = .74 (.0032) \frac{(8.7/5) 1.3}{(6.3/2) 1.4} \frac{(422,345)}{2000}

PM10 = .31 = .35 (.0032) \frac{(8.7/5) 1.3}{(6.3/2) 1.4} \frac{(422,345)}{2000}
# Banning Train Load Out

**Business Name:**

**Address:**

5250 South 300 West, #200
Salt Lake City, Utah 84107

### OFF HIGHWAY SOURCES

**Form 12**

**County:** Carbon

### Mobile Sources

<table>
<thead>
<tr>
<th>Mobile Sources</th>
<th>Number of Vehicles</th>
<th>Type of Material</th>
<th>Type of Material</th>
<th>Emission Controls</th>
<th>Usage (Hrs/Year)</th>
<th>Emissions (Tons/Year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scraper</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>176</td>
<td>0.07 0.15 0.61 16.63 0.22 0.50</td>
</tr>
<tr>
<td>Front End Loader</td>
<td>Coal None None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shovel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottom Dump Truck</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>End Dump Truck</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dragline</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grader</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulldozer (Track Type)</td>
<td>Coal None None</td>
<td></td>
<td></td>
<td></td>
<td>88</td>
<td></td>
</tr>
<tr>
<td>Wheeled Dozers</td>
<td>Coal None None</td>
<td></td>
<td></td>
<td></td>
<td>88</td>
<td>0.04 0.073 0.053 18.33 0.84 0.77</td>
</tr>
<tr>
<td>Tractors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rollers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (Please Specify)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Form 11

TSP - .084 = .74 (.0032) (8.7/5) 1.3 (138,957) / 2000
       (6.3/2) 1.4

PM10 - .04 = .35 (.0032) (8.7/5) 1.3 (138,957) / 2000
       (6.3/2) 1.4
Calculations for Front End Loader.

\[
\begin{align*}
\text{CO} & \quad \text{HRS} \\
\quad & \quad .572 \times 176 / 2000 = .0503 \\
\text{HC} & \quad .25 \times 176 / 2000 = .022 \\
\text{NO}_x & \quad 1.89 \times 176 / 2000 = .1663 \\
\text{SO}_x & \quad .182 \times 176 / 2000 = .0160 \\
\text{TSP} & \quad .172 \times 176 / 2000 = .0151 \\
\text{PM10} & \quad .04 / .55 = .07
\end{align*}
\]

Calculations For Wheeled Dozer.

\[
\begin{align*}
\text{CO} & \quad 1.79 \times 88 / 2000 = .0788 \\
\text{HC} & \quad .192 \times 88 / 2000 = .0084 \\
\text{NO}_x & \quad 4.166 \times 88 / 2000 = .1833 \\
\text{SO}_x & \quad .348 \times 88 / 2000 = .0153 \\
\text{TSP} & \quad .165 \times 88 / 2000 = .0073 \\
\text{PM10} & \quad .02 / .55 = .04
\end{align*}
\]
Calculations For Bulldozer (Track Type).

- **CO**
  \[0.675 \times \frac{88}{2000} = 0.02\]

- **HC**
  \[0.152 \times \frac{88}{2000} = 0.0067\]

- **NO**
  \[1.691 \times \frac{88}{2000} = 0.0744\]

- **SO\textsubscript{2}**
  \[0.143 \times \frac{88}{2000} = 0.0063\]

- **TSP**
  \[0.139 \times \frac{88}{2000} = 0.0061\]

- **PM10**
  \[0.02 \div 55 = 0.04\]
VISUAL EMISSIONS FIELD SHEET

Property: Jenning
Location: 4 hi斯丁-18 miles
Source: Train Car Load and Dmg
Background Description: Busy Traffic

Weather Conditions:

Wind Speed: 1-3 mph
Wind Direction: W-NNW
Ambiant Temp.: 61
Rel. Humidity: 90%
Change in Weather: Sprinkle - H. Rain
Angle of the Sun: W. - Candiest

Observed Reading: None
(>10 to 100%): 7/10

Comments:

Inspector: [Signature]
Certification Date: 8/17/07
VISUAL EMISSIONS FIELD SHEET

Property: Smalling 10
Location: Off Hwy 50, c/o
Source: (Blank)
Background Description: (Blank)

Date: 10/02/92

Weather Conditions:

Wind Speed: 5
Wind Direction: N-NW
Ambient Temp.: 51
Rel. Humidity: 90+
Change in Weather: Rain - Light
Angle of the Sun: W - Southwest

Observed Reading: 14
(>10 to 100%) 14% C8

Comments: Weather was too cool and wet - otherwise inspector during inspection.

Inspector: [Signature]
Certification Date: 1/27/93
VISUAL EMISSIONS FIELD SHEET

Property: Parking Lot
Date: 8/27/91

Location: 1050 Avery St.
Source: Tapered Pipe
Background Description: Local ledge - gray clay

Weather Conditions:

Wind Speed: 5-10 knots
Wind Direction: N - NW
Ambient Temp.: 64
Rel. Humidity: 90%
Change in Weather: Rain
Angle of the Sun: 11/4 - Overcast

Observed Reading: 2/10
(>10 to 100%)

Comments: High, basic, smoke billowing east, escaping from roof

Inspector: [Signature]
Certification Date: 8/27/91
VISUAL EMISSIONS FIELD SHEET

Property:REQUIRED L.O  
Location: Adj - Oakley 
Source: Truck Hopper 
Background Description: Relatively level. Sage - Greenwood 

Weather Conditions:

Wind Speed: 4-6 mph  
Ambinant Temp.: 49°F  
Wind Direction: W-NW  
Rel. Humidity: 90%  

Change in Weather:  

Angle of the Sun: At - Noon or Most  

Observed Reading: 7/10  
(>10 to 100%)  

Comments: Little Burn  

Inspector: _______ 
Certification Date: 5-17-94
**Carbon County, Utah T13S, R12E**

12 Miles NE of Wellington, UT

Soldier Creek Road

<table>
<thead>
<tr>
<th>Fugitive Emission Source Description (be specific)</th>
<th>Materials Used</th>
<th>Production Tons/hr</th>
<th>Pollutants (Tons/Tr.)</th>
<th>1 Annual Production</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Type</td>
<td>% Moisture Content</td>
<td>Quantity Tons/yr</td>
<td>Design Rate</td>
</tr>
<tr>
<td>#1 Conveyor belt (330 ft. covered)</td>
<td>coal</td>
<td>6.9%</td>
<td>422,345</td>
<td>1,000</td>
</tr>
<tr>
<td>#2 Conveyor belt (100 ft. uncovered)</td>
<td>coal</td>
<td>6.9%</td>
<td>422,345</td>
<td>1,000</td>
</tr>
<tr>
<td>Loadout Bin (No controls)</td>
<td>coal</td>
<td>6.9%</td>
<td>422,345</td>
<td>1,000</td>
</tr>
</tbody>
</table>

**Form D**

Soldier Creek Coal Company (Soldier Canyon Mine)
**Soldier Creek Coal Company (Soldier Canyon Mine)**

**County:** Carbon

**Address:**
- **P.O. Box 41, Price, UT 84501**
- **12 Miles N. of Wellington, Utah, Soldier Creek Rd.**

**Pile Location:** Carbon County, Utah

### 1. Annual Road Usage

<table>
<thead>
<tr>
<th>Roads</th>
<th>Type (Use Code)</th>
<th>Vehicle Miles Traveled</th>
<th>Average Vehicle Speed (MPH)</th>
<th>Control of Dust Method</th>
<th>Number of Applications Per Year</th>
<th>Est. Emissions (Tons/Year)</th>
<th>1 Annual Road Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>I</td>
</tr>
</tbody>
</table>

*Note: Codes: 1 = Dirt; 2 = Gravel; 3 = Paved (Mark if not applicable)*

### 2. Material Stored

<table>
<thead>
<tr>
<th>Type of Material Stored</th>
<th>Average Amount Stored Tons/Year</th>
<th>Annual Throughput Tons/Year</th>
<th>State Analysis/ Sizing Description</th>
<th>Content of Material</th>
<th>Type of Control Dust Emissions</th>
<th>Est. Emissions (Tons/yr)</th>
<th>1 Annual Throughput of Storage Piles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal</td>
<td>1000</td>
<td>12,000</td>
<td>6&quot; minus</td>
<td>6.92</td>
<td>None</td>
<td>35 30 10 25</td>
<td>I</td>
</tr>
<tr>
<td>Roads</td>
<td>Type (See Code)</td>
<td>Vehicle Miles Traveled</td>
<td>Average Vehicle Speed (MPH)</td>
<td>Control of Dust Method</td>
<td>Number of Applications Per Year</td>
<td>Est. Emissions (Tons/Year)</td>
<td>% Annual Load Usage</td>
</tr>
<tr>
<td>-------</td>
<td>----------------</td>
<td>------------------------</td>
<td>----------------------------</td>
<td>------------------------</td>
<td>-------------------------------</td>
<td>-----------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Road Type Codes: 1 - Dirt; 2 - Gravel; 3 - Paved

<p>| Type of | Average Amount | Annual | Sieve Analysis/ | Content of | Type of | Est. Emissions |</p>
<table>
<thead>
<tr>
<th>Material</th>
<th>Stored Tons/Year</th>
<th>Thru-Put</th>
<th>Size Description</th>
<th>Material</th>
<th>Control</th>
<th>(Tons/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal</td>
<td>138,957</td>
<td>422,345</td>
<td>2&quot; X 0&quot;</td>
<td>6.3</td>
<td>None</td>
<td>.084</td>
</tr>
</tbody>
</table>

% Annual Thru P of Storage Pile

Form 11

12-26-92

Banning Train Load Out

County: Carbon

Form 11
VISUAL EMISSIONS FIELD SHEET

Property: Pilot Creek Mine  Date: 10/30/92
Location: Mill Creek Spillway
Source: Loadout Bin
Background Description: Highwall Longwall

Weather Conditions:

Wind Speed: 0  Wind Direction: W
Ambient Temp.: 47°  Rel. Humidity: 99%
Change in Weather: Rain
Angle of the Sun: WSW - Overcast

Observed Reading: Minor (and Deep)
(>10 to 100%)  >10

Comments: No dust present except when they go down tracks/rocks.

Inspector: [Signature]
Certification Date: 12/27/92
VISUAL EMISSIONS FIELD SHEET

Property: Hidden Creek Mine
Date: 10/29/92
Location: Mine Yard - Loader Pileport
Source: # Conveyor Belt (uncovered)
Background Description: Gray Sky - Sandstone ledge

Weather Conditions:

- Wind Speed: 0
- Wind Direction: NNE
- Ambiant Temp: 47°
- Rel. Humidity: 99+
- Change in Weather: Heavy Rain
- Angle of the Sun: 41°

Observed Reading: 0

(>10 to 100%) 710

Comments: No visual evidence seen at drop point.

Inspector: [Signature]
Certification Date: 12/27/92
VISUAL EMISSIONS FIELD SHEET

Property: Logar Creek Mine
Location: Logar Creek Mine Abandoned Yard
Source: # Conveyor Belt
Background Description: Landslide ledge - P. J. Beaver

Weather Conditions:

Wind Speed 75 mph
Ambiant Temp. 47
Wind Direction Unavailable
Rel. Humidity 90%
Change in Weather Rain
Angle of the Sun 90

Observed Reading None
(>10 to 100%) 7100

Comments: Self-run intermediate - No observed dust.

Inspector: [Signature]
Certification Date 8/27/11
Division of Environmental Health

Utah State

Awarded This Certificate To

M. A. COONROD

For Successfully Completing The
Visible Emissions Evaluation Course

Conducted By
The Bureau of Air Quality

Due
August 27, 1981

(Handwritten signature)