

I.D. No. 005-00021 Reg. 610-01634
Co. Rockwell Mining, LLC
Facility Rocklick Prep Plant Region 5
Initials OAR

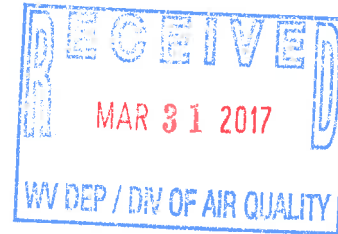
P & A Engineers & Consultants, Inc.

312 Justice Avenue
Logan, WV 25601

Phone (304) 752-8320
Fax (304) 752-7488

March 27, 2017

Mr. William F. Durham, Director
Division of Air Quality
601 57th Street SE
Charleston, WV 25304



RE: Rockwell Mining, LLC
Rocklick Preparation Plant
Facility ID: 005-00021

Dear Mr. Durham:

On behalf of Rockwell Mining, LLC, we submit the enclosed General Permit Registration for the above-referenced facility. The submittal fee is being held from a previous withdrawn application.

The application addresses the operation of the Rocklick Complex that includes the Harris Coal Processing and Conveying Systems. The writer has deleted all equipment that has either been removed or no plans to construct. Equipment identifications, controls, transfer points, and material flow have been modified as discussed with Dan Roberts, OAQ Reviewer.

If additional information or clarification is needed, please contact me at the Logan address listed above or call 304-752-8320.

Sincerely,

Donna J. Toler
Air Quality Project Manager

donnatoler@suddenlink.net

Entire Document
NON-CONFIDENTIAL

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WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF AIR QUALITY
 601 - 57th Street SE
 Charleston, WV 25304
 Phone: (304) 926-0475 • www.wvdep.org

APPLICATION FOR GENERAL PERMIT REGISTRATION
 CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE
 A STATIONARY SOURCE OF AIR POLLUTANTS

PLEASE CHECK ALL THAT APPLY (IF KNOWN):
 CONSTRUCTION MODIFICATION RELOCATION
 ADMINISTRATIVE UPDATE AFTER-THE-FACT

FOR AGENCY USE ONLY: PLANT I.D. # _____
 PERMIT # _____ PERMIT WRITER: _____

CHECK WHICH TYPE OF GENERAL PERMIT REGISTRATION YOU ARE APPLYING FOR:

- | | |
|--|--|
| <input checked="" type="checkbox"/> G10-D – Coal Preparation and Handling | <input type="checkbox"/> G40-C – Nonmetallic Minerals Processing |
| <input type="checkbox"/> G20-B – Hot Mix Asphalt | <input type="checkbox"/> G50-B – Concrete Batch |
| <input type="checkbox"/> G30-D – Natural Gas Compressor Stations | <input type="checkbox"/> G60-C – Class II Emergency Generator |
| <input type="checkbox"/> G33-A – Class I Spark Ignition Internal Combustion Engine | <input type="checkbox"/> G65-C – Class I Emergency Generator |
| <input type="checkbox"/> G35-A – Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit) | |

SECTION I. GENERAL INFORMATION

1. NAME OF APPLICANT (AS REGISTERED WITH THE WV SECRETARY OF STATE'S OFFICE): ROCKWELL MINING, LLC	2. FEDERAL EMPLOYER ID NO. (FEIN): 47-4843874
--	---

3. APPLICANT'S MAILING ADDRESS:
**3228 SUMMIT SQUARE PLACE SUITE 180
 LEXINGTON, KY 40509-2637**

4. IF APPLICANT IS A SUBSIDIARY CORPORATION, PLEASE PROVIDE THE NAME OF PARENT CORPORATION:
BLACKHAWK MINING

5. WV BUSINESS REGISTRATION. IS THE APPLICANT A RESIDENT OF THE STATE OF WEST VIRGINIA? YES NO
 ⇨ IF YES, PROVIDE A COPY OF THE CERTIFICATE OF INCORPORATION / ORGANIZATION / LIMITED PARTNERSHIP (ONE PAGE) INCLUDING ANY NAME CHANGE AMENDMENTS OR OTHER BUSINESS CERTIFICATE AS ATTACHMENT A.
 ⇨ IF NO, PROVIDE A COPY OF THE CERTIFICATE OF AUTHORITY / AUTHORITY OF L.L.C. / REGISTRATION (ONE PAGE) INCLUDING ANY NAME CHANGE AMENDMENTS OR OTHER BUSINESS CERTIFICATE AS ATTACHMENT A.

SECTION II. FACILITY INFORMATION

7. TYPE OF PLANT OR FACILITY (STATIONARY SOURCE) TO BE CONSTRUCTED, MODIFIED, RELOCATED OR ADMINISTRATIVELY UPDATED (E.G., COAL PREPARATION PLANT, PRIMARY CRUSHER, ETC.): Coal Preparation Plant and associated systems	8. STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE FOR THE FACILITY: 1221 AND 1222
--	--



9A. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY): 005-00021	10A. LIST ALL CURRENT 45CSR13 AND 45CSR30 (TITLE V) PERMIT NUMBERS ASSOCIATED WITH THIS PROCESS (FOR EXISTING FACILITY ONLY): R13-0772N
--	---

PRIMARY OPERATING SITE INFORMATION

11A. NAME OF PRIMARY OPERATING SITE: Rocklick Complex	12A. MAILING ADDRESS OF PRIMARY OPERATING SITE: PO Box 57, Wharton, WV 25208
---	--

13A. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE *PROPOSED SITE*?

YES NO

⇒ IF YES, PLEASE EXPLAIN: **OWNER/OPERATOR**

⇒ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14A. ⇒ FOR MODIFICATIONS or ADMINISTRATIVE UPDATES, AT AN EXISTING FACILITY, PLEASE PROVIDE DIRECTIONS TO THE *PRESENT LOCATION* OF THE FACILITY FROM THE NEAREST STATE ROAD;

⇒ FOR CONSTRUCTION OR RELOCATION PERMITS, PLEASE PROVIDE DIRECTIONS TO *THE PROPOSED NEW SITE LOCATION* FROM THE NEAREST STATE ROAD.

From Charleston, follow US119S to Route 85 at Madison, follow Route 85 past Van toward Bald Knob, plant about 8 miles from Van on left

INCLUDE A MAP AS ATTACHMENT F.

15A. NEAREST CITY OR TOWN: Wharton	16A. COUNTY: Boone	
17A. UTM NORTHING (KM): 4188.54824	18A. UTM EASTING (KM): 444.56653	19A. UTM ZONE: 17

Note: Coordinates that are on top of plant are: 81-37-48.12 and 37-50-33.68

1ST ALTERNATE OPERATING SITE INFORMATION (G20-B, G40-C, G50-C only)

11B. NAME OF PRIMARY OPERATING SITE: <hr/> <hr/>	12B. MAILING ADDRESS OF PRIMARY OPERATING SITE: <hr/> <hr/>	
13B. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE <i>PROPOSED SITE</i> ? <input type="checkbox"/> YES <input type="checkbox"/> NO ⇨ IF YES, PLEASE EXPLAIN: _____ _____ ⇨ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.		
14B. ⇨ FOR MODIFICATIONS or ADMINISTRATIVE UPDATES , AT AN EXISTING FACILITY, PLEASE PROVIDE DIRECTIONS TO THE <i>PRESENT LOCATION</i> OF THE FACILITY FROM THE NEAREST STATE ROAD; ⇨ FOR CONSTRUCTION OR RELOCATION PERMITS , PLEASE PROVIDE DIRECTIONS TO <i>THE PROPOSED NEW SITE LOCATION</i> FROM THE NEAREST STATE ROAD. <hr/> <hr/> <hr/> <p>INCLUDE A MAP AS ATTACHMENT F.</p>		
15B. NEAREST CITY OR TOWN:	16B. COUNTY:	
17B. UTM NORTHING (KM):	18B. UTM EASTING (KM):	19B. UTM ZONE:

2ND ALTERNATE OPERATING SITE INFORMATION (G20-B, G40-C, G50-C only)

11C. NAME OF PRIMARY OPERATING SITE: _____	12C. MAILING ADDRESS OF PRIMARY OPERATING SITE: _____	
<p>13C. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE <i>PROPOSED SITE</i>?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>⇒ IF YES, PLEASE EXPLAIN: _____</p> <p>_____</p> <p>⇒ IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.</p>		
<p>14C. ⇒ FOR MODIFICATIONS or ADMINISTRATIVE UPDATES, AT AN EXISTING FACILITY, PLEASE PROVIDE DIRECTIONS TO THE <i>PRESENT LOCATION</i> OF THE FACILITY FROM THE NEAREST STATE ROAD;</p> <p>⇒ FOR CONSTRUCTION OR RELOCATION PERMITS, PLEASE PROVIDE DIRECTIONS TO <i>THE PROPOSED NEW SITE LOCATION</i> FROM THE NEAREST STATE ROAD.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>INCLUDE A MAP AS ATTACHMENT F.</p>		
15C. NEAREST CITY OR TOWN:	16C. COUNTY:	
17C. UTM NORTHING (KM):	18C. UTM EASTING (KM):	19C. UTM ZONE:
<p>20. PROVIDE THE DATE OF ANTICIPATED INSTALLATION OR CHANGE: Upon Permit Approval</p> <p>⇒ IF THIS IS AN AFTER-THE-FACT PERMIT APPLICATION, PROVIDE THE DATE UPON WHICH THE PROPOSED CHANGE DID HAPPEN: ____/____/____</p>		<p>21. DATE OF ANTICIPATED START- UP IF REGISTRATION IS GRANTED:</p> <p>Upon Permit Approval</p>
<p>22. PROVIDE MAXIMUM PROJECTED OPERATING SCHEDULE OF ACTIVITY/ ACTIVITIES OUTLINED IN THIS APPLICATION:</p> <p>HOURS PER DAY 24 DAYS PER WEEK 7 WEEKS PER YEAR 52 PERCENTAGE OF OPERATION 100</p>		

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**ROCKWELL MINING, LLC
3228 SUMMIT SQUARE PL 180
LEXINGTON, KY 40509-2637**

BUSINESS REGISTRATION ACCOUNT NUMBER: **2320-2744**

This certificate is issued on: **10/1/2015**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued
This certificate shall be permanent until cessation of the business for which the certificate of registration
was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new
certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of
this certificate displayed at every job site within West Virginia.

Attachment B

DETAILED PROCESS DESCRIPTION

The purpose of this application is to address permit deficiencies and convert this facility to the General Permit Program.

Because the facility was grossly over permitted and included equipment that has been removed or not constructed, the equipment identifications, controls, operating rates and processes are being modified to depict current operation at the Rocklick Facility.

WINIFREDE:

The Winifrede Belt System is currently idle with no plans to restart at this time. Therefore, this system has been deleted from the permit application.

HARRIS:

The Harris Material Storage and Transfer System begins with raw coal being transferred from the Black Oak Deep Mine to stockpiles OS-01(SW-WS) and OS-02(SW-WS) via a series of raw coal belts BC-01(PE) through BC-06(PE) and two receiving bins BS-01(PE) and BS-02(PE). These bins are located below ground and are used as transfer bins only. This process takes place at TP-01(TC-FE) thru TP-11(TC-PE).

Material from stockpiles OS-01 and OS-02 will reclaim under-pile to a series of belt conveyors BC-07(FE) thru BC-10(FE) which carry coal through the Matewan Tunnel to the prep plant raw coal storage area; or belt BC-11(PE) can transfer to a series of belt conveyors BC-12(PE) thru BC-14(PE) for storage in stockpiles OS-03(SW-WS) and OS-04(SW-WS) that reclaim under-pile to belt BC-15(FE) for transfer to the plant stockpiles or rail load out. This process takes place at TP-12(LO-UC) thru TP-29(TC-FE). Excess material can be trucked in and out of stockpiles OS-05(SW-WS) at TP-25(UL-MDH) and TP-26(TC-FE).

Please note that the Harris crusher and screen have been removed and the structure is used for transfer only.

Attachment B

ROCKLICK:

The Rocklick Raw Coal Storage Area having stockpiles OS-06(SW-WS), OS-07(SW-WS) and OS-08(SW-WS) are fed by belts BC-10 and BC-15 via the Matewan Tunnel as well as trucked in coal to under-surface bins BS-03(PE) and BS-04(PE). Trucked in coal can also dump into stockpile OS-06 via a highwall dump that employs an enclosed chute to limit the drop height to 20' to the top of the material below.

The truck dump bins discharge to belt conveyors BC-17(PE), BC-18(PE), and BC-19(PE) for discharge to the stockpiles. Dozer can push coal from stockpile to stockpile. These processes take place from TP-30(UL-MDH) thru TP-37(TC-PE).

Raw coal is reclaimed under pile to belt BC-20(FE) which can feed the raw coal screen SS-01(FW) and rotary breaker CR-01(FW) and/or the plant via belt BC-22(PE). Material can also bypass the screen to plant via belt BC-21(PE). The plant houses raw coal screen SS-02(FW) which sends coal fines to belt conveyor BC-23(FW) inside the plant for transfer to the clean coal collecting belt BC-24(PE) or processed material to the wet wash system. These processes take place at TP-38(LO-UC) thru 51(TC-FW).

Clean coal transfers from the plant to the clean coal stockpile areas OS-09(SW-WS), OS-10(SW-WS) and OS-11(SW-WS) via a series of clean coal belts BC-24(PE) thru BC-27(PE); and reclaims to bin BS-05(FE) for rail load out on belts BC-28(FE) and BC-29(FE). This process takes place at TP-52(TC-FW) thru TP-66(LR-TC).

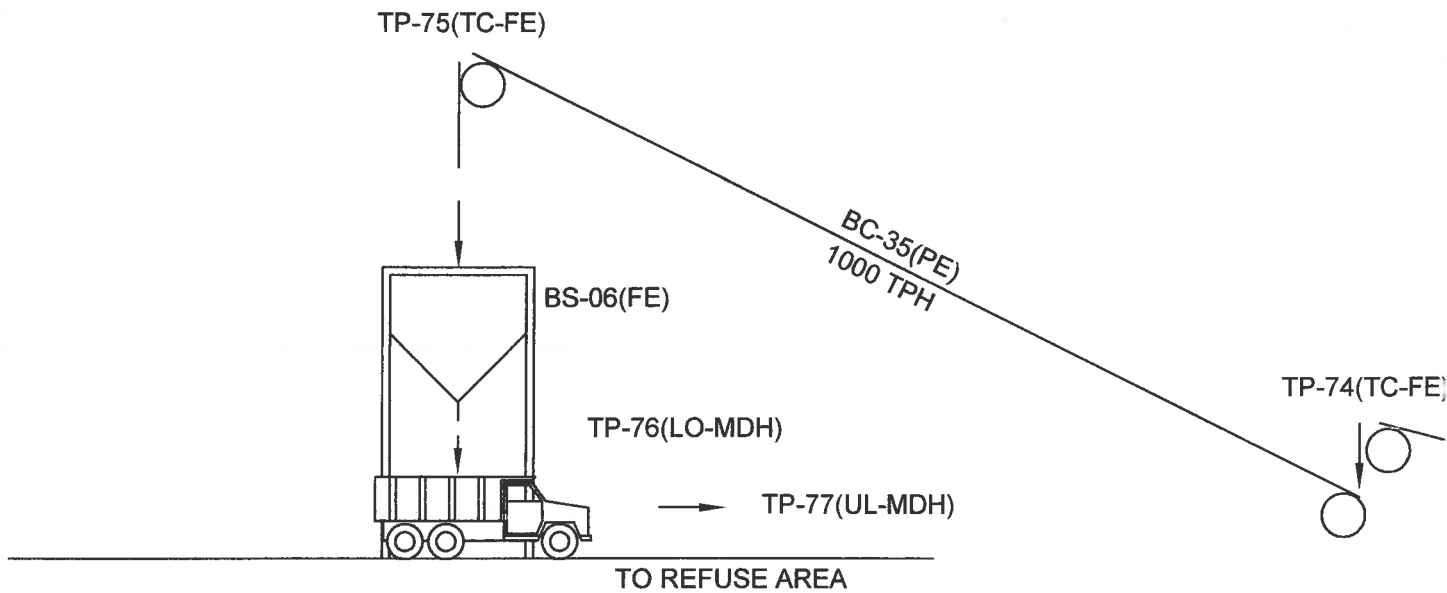
Plant refuse is transferred from the plant to the refuse bin BS-06(FE) via a series of belt conveyors BC-30(PE) thru BC-35(PE) where it is loaded to truck for delivery to the disposal area. This process takes place at TP-67(TC-FW) thru TP-77(UL-MDH).

DESCRIPTION OF FUGITIVE EMISSIONS

Potential sources of fugitive particulate emissions for this facility include emissions, which are not captured by pollution control equipment and emissions from open stockpiles and vehicular traffic on paved haulroads and work areas. The haulroads and work areas will be controlled by water truck in accordance with section E.6.c.i. of the General Permit.

The water truck is equipped with pumps sufficient to maintain haulroads and work areas. The water truck will be operated three times daily, and more as needed in dry periods.

An additive to prevent freezing will be utilized in the winter months when freezing conditions are present.



Prepared by:



ENGINEERS & CONSULTANTS
PO Box 470 Alum Creek, WV 25003 (304) 756-4066

No.	Date	Revision	By
1			
2			
3			
4			
5			

Drawing Date:

03/28/17

Drawn By:

G. Caudill

Computer No.:

17058

Topo Contour Interval:

na

Scale:

na

Sheet No.:

1 of 1

Submittal Date:

March 2017

Rockwell Mining, LLC

**Rocklick Preparation Plant
Process Flow Diagram**

Division of Air Quality

ID: 03-054-005-00021

Prepared by:



ENGINEERS & CONSULTANTS
PO Box 470 Alum Creek, WV 25003 (304) 758-4066

No.	Date	Revision	By
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Drawing Date: 03/28/17	Drawn By: G. Caudill
Computer No.: 17057	Topo Contour Interval: na
Scale: na	Sheet No.: 1 of 1

Submittal Date:

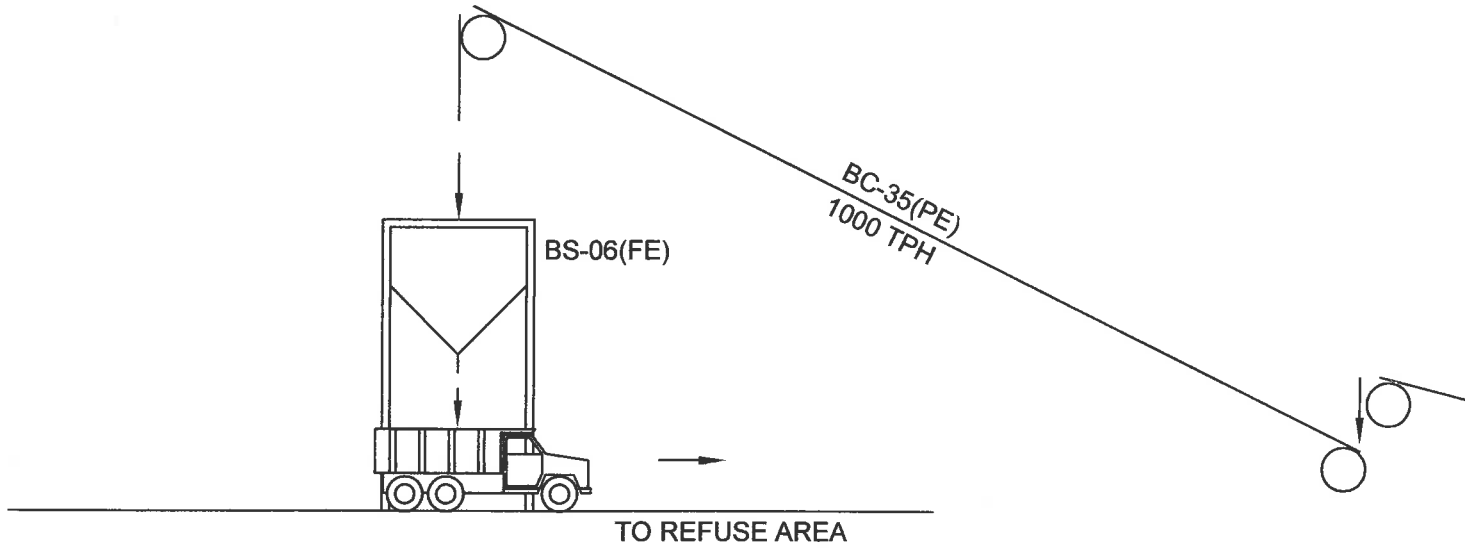
March 2017

Rockwell Mining, LLC

Harris Material Storage and Transfer Process Flow Diagram

Division of Air Quality

ID: 03-054-005-00021



Prepared by:



ENGINEERS & CONSULTANTS
 PO Box 470 Alum Creek, WV 25003 (304) 756-4066

No.	Date	Revision	By
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Drawing Date: 03/28/17	Drawn By: G. Caudill
Computer No.: 17058	Topo Contour Interval: na
Scale: na	Sheet No.: 1 of 1

Rockwell Mining, LLC

**Rocklick Preparation Plant
 Site Map**

Submittal Date:

March 2017

Division of Air Quality

ID: 03-054-005-00021

Prepared by:



ENGINEERS & CONSULTANTS
PO Box 470 Alum Creek, WV 25003 (304) 758-4066

No.	Date	Revision	By
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Drawing Date: 03/28/17	Drawn By: G. Caudill
Computer No.: 17057	Topo Contour Interval: na
Scale: na	Sheet No.: 1 of 1

Submittal Date:

March 2017

Rockwell Mining, LLC

**Harris Material Storage and
Site Map**

Division of Air Quality

ID: 03-054-005-00021

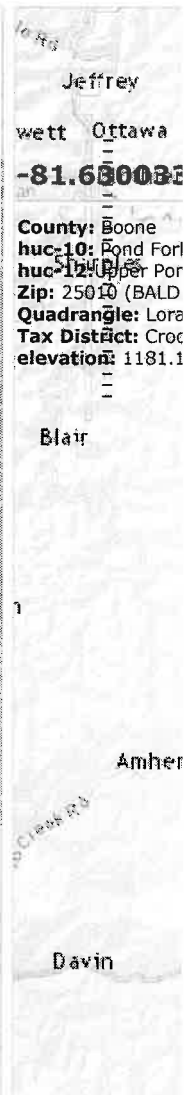


Rockwell Mining, LLC

Rocklick Preparation Plant Location Map

LON/LAT UTM converter

Lon/Lat	
Longitude:	- 81 d 37 m 48.12 s
Latitude:	+ 37 d 50 m 33.68 s
DD:	-81.630033 37.842689
Datum:	<input type="radio"/> NAD27 <input checked="" type="radio"/> NAD83
<input type="button" value="Convert"/>	
UTM	
Coordinates:	444566.53 E 4188548.24 N
Datum:	<input type="radio"/> NAD27 <input checked="" type="radio"/> NAD83 Zone: 17
<input type="button" value="Convert"/>	
WV State Plane (feet)	
Coordinates:	1353192.75 E -232142.66 N
Datum:	<input type="radio"/> NAD27 <input checked="" type="radio"/> NAD83 Zone: North
<input type="button" value="Convert"/>	



mhtml:file://C:\Documents and Settings\cmeadows\Desktop\LON-LAT UTM

CRUSHING AND SCREENING AFFECTED SOURCE SHEET

Source Identification Number ¹		Plant CR-01	CR-02		
Type of Crusher or Screen ²		Rotary Breaker	CC Sampler		
Date of Manufacture ³		2005	2014		
Maximum Throughput ⁴		6	5		
		7,095,600	43,800		
Material sized from/to: ⁵		+2x0	+2x0		
Average Moisture Content (%) ⁶		6	7		
Control Device ID Number ⁷		FW	FE		
Baghouse Stack Parameters ⁸	height (ft)	N/A			
	diameter (ft)				
	volume (ACFM)				
	exit temp (°F)				
	UTM Coordinates				
Maximum Operating Schedule ⁹	hours/day	24	24		
	days/year	365	365		
	hours/year	8760	8760		
Percentage of Operation ¹⁰	January-March	25	25		
	April-June	25	25		
	July-September	25	25		
	Oct-December	25	25		

1. Enter the appropriate Source Identification Number for each crusher and screen. For example, in the case of an operation which incorporates multiple crushers, the crushers should be designated CR-1, CR-2, CR-3 etc. beginning with the breaker or primary crusher. Multiple screens should be designated S-1, S-2, S-3 etc.
2. Describe types of crushers and screens using the following codes:

HM	Hammermill	SS	Stationary Screen
DR	Double Roll Crusher	SD	Single Deck Screen
BM	Ball Mill	DD	Double-Deck Screen
RB	Rotary Breaker	TD	Triple Deck Screen
JC	Jaw Crusher	OT	Other
GC	Gyratory Crusher		
OT	Other - Quadroll		
3. Enter the date that each crusher and screen was manufactured.
4. Enter the maximum throughput for each crusher and screen in tons per hour and tons per year.
5. Describe the nominal material size reduction (e.g. +2" / -").
6. Enter the average percent moisture content of the material processed.
7. Enter the appropriate Control Device Identification Number for each crusher and screen. Refer to Table A - Control Device Listing and Control Device Identification Number Instructions in the Reference Document for Control Device ID prefixes and numbering.
8. Enter the appropriate stack parameters if a baghouse control device is used.
9. Enter the maximum operating schedule for each crusher and screen in hours per day, days per year and hours per year.
10. Enter the estimated percentage of operation throughout the year for each crusher and screen.

CRUSHING AND SCREENING AFFECTED SOURCE SHEET

Source Identification Number ¹		Rocklick SS-01	Rocklick In plant SS-02	
Type of Crusher or Screen ²		Vibrating	SD	
Date of Manufacture ³		2005	2005	
Maximum Throughput ⁴	tons/hour	1800	1200	
	tons/year	15,768,000	5,124,600	
Material sized from/to: ⁵		+4x0	+ -2x0	
Average Moisture Content (%) ⁶		6	6	
Control Device ID Number ⁷		FW	FW	
Baghouse Stack Parameters ⁸	height (ft)	N/A	N/A	
	diameter (ft)			
	volume (ACFM)			
	exit temp (°F)			
	UTM Coordinates			
Maximum Operating Schedule ⁹	hours/day	24	24	
	days/year	365	365	
	hours/year	8760	8760	
Percentage of Operation ¹⁰	January-March	25	25	
	April-June	25	25	
	July-September	25	25	
	Oct-December	25	25	

1. Enter the appropriate Source Identification Number for each crusher and screen. For example, in the case of an operation which incorporates multiple crushers, the crushers should be designated CR-1, CR-2, CR-3 etc. beginning with the breaker or primary crusher. Multiple screens should be designated S-1, S-2, S-3 etc.
2. Describe types of crushers and screens using the following codes:

HM Hammermill	SS Stationary Screen
DR Double Roll Crusher	SD Single Deck Screen
BM Ball Mill	DD Double-Deck Screen
RB Rotary Breaker	TD Triple Deck Screen
JC Jaw Crusher	OT Other
GC Gyrotory Crusher	
OT Other	
3. Enter the date that each crusher and screen was manufactured.
4. Enter the maximum throughput for each crusher and screen in tons per hour and tons per year.
5. Describe the nominal material size reduction (e.g. +2"/ -").
6. Enter the average percent moisture content of the material processed.
7. *Device Identification Number Instructions* in the *Reference Document* for Control Device ID prefixes and numbering. Enter the appropriate Control Device Identification Number for each crusher and screen. Refer to Table A - *Control Device Listing and Control*
8. Enter the appropriate stack parameters if a baghouse control device is used.
9. Enter the maximum operating schedule for each crusher and screen in hours per day, days per year and hours per year.
10. Enter the estimated percentage of operation throughout the year for each crusher and screen.

CONVEYING AFFECTED SOURCE SHEET

Source Identification Number ¹	Date of Manufacture ²	Type of Material Handled ³	Size of Material Handled ⁴	Maximum Material Transfer Rate ⁵		Average Moisture Content (%) ⁶	Control Device ⁷
				tons/hour	tons/year		
BC-01	2012	RC	2x0	1000	8,760,000	6	PE
BC-02	2012	RC	2x0	1000	8,760,000	6	PE
BC-03	2012	RC	2x0	1000	8,760,000	6	PE
BC-04	2012	RC	2x0	1000	8,760,000	6	PE
BC-05	2012	RC	2x0	1000	8,760,000	6	PE
BC-06	2012	RC	2x0	1000	4,380,000	6	PE
BC-07	2012	RC	2x0	1000	8,760,000	6	FE
BC-08	1997	RC	2x0	1000	8,760,000	6	PE
BC-09	1997	RC	2x0	1000	8,760,000	6	PE
BC-10	1997	RC	2x0	1000	5,256,000	6	FE
BC-11	1997	RC	2x0	1000	3,504,000	6	PE
BC-12	1997	RC	2x0	1000	3,504,000	6	PE
BC-13	1997	RC	2x0	1000	1,752,000	6	PE
BC-14	1997	RC	2x0	1000	1,752,000	6	PE
BC-15	1997	RC	2x0	1000	3,504,000	6	FE
BC-16	1997	RC	2x0	1000	3,504,000	6	PE
BC-17	1997	RC	2x0	800	5,256,000	6	PE
BC-18	1997	RC	2x0	800	5,256,000	6	PE
BC-19	1997	RC	2x0	800	5,256,000	6	PE
BC-20	2005	RC	2x0	1800	15,768,000	6	PE
BC-21	2005	RC	2x0	1800	7,095,600	6	PE

CONVEYING AFFECTED SOURCE SHEET

Source Identification Number ¹	Date of Manufacture ²	Type of Material Handled ³	Size of Material Handled ⁴	Maximum Material Transfer Rate ⁵		Average Moisture Content (%) ⁶	Control Device ⁷
				tons/hour	tons/year		
BC-22	2005	RC	2x0	1800	8,672,400	6	PE
BC-23	1997	CC	2x0	180	1,576,800	6	FE
BC-24	1997	CC	2x0	1000	8,760,000	7	PE
BC-25	1997	CC	2x0	1000	8,760,000	7	PE
BC-26	1997	CC	2x0	1000	5,840,000	7	PE
BC-27	1997	CC	2x0	1000	2,920,000	7	PE
BC-28	1997	CC	2x0	4000	8,760,000	7	FE
BC-29	1997	CC	2x0	4000	8,760,000	7	FE
BC-30	2005	Refuse Fines	-1	500	4,380,000	10	PE
BC-31	2005	CR Reject	+2x0	100	876,000	6	PE
BC-32	2005	Refuse	-1 3/8	1000	8,760,000	15	PE
BC-33	2005	Refuse	-1 3/8	1000	8,760,000	15	PE
BC-34	2005	Refuse	-1 3/8	1000	8,760,000	15	PE
BC-35	2005	Refuse	-1 3/8	1000	8,760,000	15	PE

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number ¹	Harris BS-01	Harris BS-02	Rocklick BS-03	Rocklick BS-04	Loadout BS-05
Type of Material Stored ²	RC	RC	RC	RC	RC
Average Moisture Content (%) ³	6	6	6	6	7
Maximum Yearly Storage Throughput (tons) ⁴	4,380,000	4,380,000	5,256,000	5,256,000	8,760,000
Maximum Storage Capacity (tons) ⁵	100	100	100	100	300
Maximum Base Area (ft ²) ⁶					
Maximum Pile Height (ft) ⁷					
Method of Material Load-in ⁸	SS	SS	TD	TD	SS
Load-in Control Device Identification Number ⁹	TC-PE	TC-PE	UL-MDH	UL-MDH	TC-FE
Storage Control Device Identification Number ⁹	FE	FE	Drive Across PE	Drive Across PE	FE
Method of Material Load-out ⁸	SS	SS	SS	SS	TC
Load-out Control Device Identification Number ⁹	TC-FE	TC-FE	LO-UC	LO-UC	LR-TC

1. Enter the appropriate Source Identification Number for each storage activity using the following codes. For example, if the facility utilizes three storage bins, four open stockpiles and one storage building (full enclosure), the Source Identification Numbers should be BS-1, BS-2, and BS-3; OS-1, OS-2, OS-3, and OS-4; and SB-1, respectively.

BS Bin or Storage Silo (full enclosure)

OS Open Stockpile

SF Stockpiles with wind fences

E3 Enclosure (three sided enclosure)

SB Storage Building (full enclosure)

OT Other

2. Describe the type of material stored or stockpiled (e.g. clean coal, raw coal, refuse, etc).

3. Enter the average percent moisture content of the stored material.

4. Enter the maximum yearly storage throughput for each storage activity.

5. Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)

6. For stockpiles, enter the maximum stockpile base area.

7. For stockpiles, enter the maximum stockpile height.

8. Enter the method of load-in or load-out to/from stockpiles or bins using the following codes:

CS Clamshell

FC Fixed Height Chute from Bins

FE Front Endloader

MC Mobile Conveyor/Stacker

UC Under-pile or Under-Bin Reclaim Conveyor

RC Rake or Bucket Reclaim Conveyor

SS Stationary Conveyor/Stacker

ST Stacking Tube

TC Telescoping Chute from Bins

TD Truck Dump

PC Pneumatic Conveyor/Stacker

OT Other

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number ¹	Refuse BS-06				
Type of Material Stored ²	Refuse				
Average Moisture Content (%) ³	15				
Maximum Yearly Storage Throughput (tons) ⁴	8,760,000				
Maximum Storage Capacity (tons) ⁵	400				
Maximum Base Area (ft ²) ⁶					
Maximum Pile Height (ft) ⁷					
Method of Material Load-in ⁸	SS				
Load-in Control Device Identification Number ⁹	TC-FE				
Storage Control Device Identification Number ⁹	FE				
Method of Material Load-out ⁸	FC				
Load-out Control Device Identification Number ⁹	LO-MDH				

1. Enter the appropriate Source Identification Number for each storage activity using the following codes. For example, if the facility utilizes three storage bins, four open stockpiles and one storage building (full enclosure), the Source Identification Numbers should be BS-1, BS-2, and BS-3; OS-1, OS-2, OS-3, and OS-4; and SB-1, respectively.

BS Bin or Storage Silo (full enclosure)	E3 Enclosure (three sided enclosure)
OS Open Stockpile	SB Storage Building (full enclosure)
SF Stockpiles with wind fences	OT Other
2. Describe the type of material stored or stockpiled (e.g. clean coal, raw coal, refuse, etc).
3. Enter the average percent moisture content of the stored material.
4. Enter the maximum yearly storage throughput for each storage activity.
5. Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)
6. For stockpiles, enter the maximum stockpile base area.
7. For stockpiles, enter the maximum stockpile height.
8. Enter the method of load-in or load-out to/from stockpiles or bins using the following codes:

CS Clamshell	SS Stationary Conveyor/Stacker
FC Fixed Height Chute from Bins	ST Stacking Tube
FE Front Endloader	TC Telescoping Chute from Bins
MC Mobile Conveyor/Stacker	TD Truck Dump
UC Under-pile or Under-Bin Reclaim Conveyor	PC Pneumatic Conveyor/Stacker
RC Rake or Bucket Reclaim Conveyor	OT Other

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number ¹	Harris OS-01	Harris OS-02	Harris OS-03	Harris OS-04	Harris OS-05
Type of Material Stored ²	RC	RC	RC	RC	RC
Average Moisture Content (%) ³	6	6	6	6	6
Maximum Yearly Storage Throughput (tons) ⁴	4,380,000	4,380,000	1,752,000	1,752,000	1,752,000
Maximum Storage Capacity (tons) ⁵	50,000	50,000	40,000	40,000	40,000
Maximum Base Area (ft ²) ⁶	104,000	104,000	88,869	88,869	88,869
Maximum Pile Height (ft) ⁷	75	75	75	75	60
Method of Material Load-in ⁸	SS	SS	SS	SS	TD
Load-in Control Device Identification Number ⁹	TC-PE/ST	TC-PE/ST	TC-PE/ST	TC-PE/ST	UL-MDH
Storage Control Device Identification Number ⁹	SW-WS	SW-WS	SW-WS	SW-WS	SW-WS
Method of Material Load-out ⁸	UC	UC	UC	UC	Loader
Load-out Control Device Identification Number ⁹	LO-UC	LO-UC	LO-UC	LO-UC	LO-MDH

1. Enter the appropriate Source Identification Number for each storage activity using the following codes. For example, if the facility utilizes three storage bins, four open stockpiles and one storage building (full enclosure), the Source Identification Numbers should be BS-1, BS-2, and BS-3; OS-1, OS-2, OS-3, and OS-4; and SB-1, respectively.

BS Bin or Storage Silo (full enclosure)
 OS Open Stockpile
 SF Stockpiles with wind fences

E3 Enclosure (three sided enclosure)
 SB Storage Building (full enclosure)
 OT Other

2. Describe the type of material stored or stockpiled (e.g. clean coal, raw coal, refuse, etc).
3. Enter the average percent moisture content of the stored material.
4. Enter the maximum yearly storage throughput for each storage activity.
5. Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)
6. For stockpiles, enter the maximum stockpile base area.
7. For stockpiles, enter the maximum stockpile height.
8. Enter the method of load-in or load-out to/from stockpiles or bins using the following codes:

CS Clamshell
 FC Fixed Height Chute from Bins
 FE Front Endloader
 MC Mobile Conveyor/Stacker
 UC Under-pile or Under-Bin Reclaim Conveyor
 RC Rake or Bucket Reclaim Conveyor

SS Stationary Conveyor/Stacker
 ST Stacking Tube
 TC Telescoping Chute from Bins
 TD Truck Dump
 PC Pneumatic Conveyor/Stacker
 OT Other

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number ¹	Plant OS-06	Plant OS-07	Plant OS-08	Plant OS-09	Plant OS-10	Plant OS-11
Type of Material Stored ²	RC	RC	RC	CC	CC	CC
Average Moisture Content (%) ³	6	6	6	7	7	7
Maximum Yearly Storage Throughput (tons) ⁴	5,256,000	5,256,000	5,256,000	2,920,000	2,920,000	2,920,000
Maximum Storage Capacity (tons) ⁵	50,000	50,000	50,000	50,000	50,000	50,000
Maximum Base Area (ft ²) ⁶	104,000	104,000	104,000	104,000	104,000	104,000
Maximum Pile Height (ft) ⁷	75	75	75	75	75	75
Method of Material Load-in ⁸	SS	SS	SS/TD	SS	SS	SS
Load-in Control Device Identification Number ⁹	TC-PE	TC-PE/ST	TC-PE/ST	TC-PE/ST	TC-PE/ST	TC-PE/ST
Storage Control Device Identification Number ⁹	SW-WS	SW-WS	SW-WS	SW-WS	SW-WS	SW-WS
Method of Material Load-out ⁸	UC	UC	UC	UC	UC	UC
Load-out Control Device Identification Number ⁹	LO-UC	LO-UC	LO-UC	LO-UC	LO-UC	LO-UC

1. Enter the appropriate Source Identification Number for each storage activity using the following codes. For example, if the facility utilizes three storage bins, four open stockpiles and one storage building (full enclosure), the Source Identification Numbers should be BS-1, BS-2, and BS-3; OS-1, OS-2, OS-3, and OS-4; and SB-1, respectively.

BS Bin or Storage Silo (full enclosure)
 OS Open Stockpile
 SF Stockpiles with wind fences

E3 Enclosure (three sided enclosure)
 SB Storage Building (full enclosure)
 OT Other

2. Describe the type of material stored or stockpiled (e.g. clean coal, raw coal, refuse, etc).
3. Enter the average percent moisture content of the stored material.
4. Enter the maximum yearly storage throughput for each storage activity.
5. Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)
6. For stockpiles, enter the maximum stockpile base area.
7. For stockpiles, enter the maximum stockpile height.
8. Enter the method of load-in or load-out to/from stockpiles or bins using the following codes:

CS Clamshell
 FC Fixed Height Chute from Bins
 FE Front Endloader
 MC Mobile Conveyor/Stacker
 UC Under-pile or Under-Bin Reclaim Conveyor
 RC Rake or Bucket Reclaim Conveyor

SS Stationary Conveyor/Stacker
 ST Stacking Tube
 TC Telescoping Chute from Bins
 TD Truck Dump
 PC Pneumatic Conveyor/Stacker
 OT Other

ATTACHMENT H

BAGHOUSE AIR POLLUTION CONTROL DEVICE SHEET *Not applicable for this facility*

Complete a Baghouse Air Pollution Control Device Sheet for each baghouse control device.

1. Baghouse Control Device Identification Number:
2. Manufacturer's name and model identification:
3. Number of compartments in baghouse:
4. Number of compartments online during normal operation and conditions:
5. Gas flow rate into baghouse: _____ ACFM @ _____ °F and _____ PSIA
6. Total cloth area: _____ ft²
7. Operating air to cloth ratio: _____ ft/min
8. Filter media type: _____
9. Stabilized static pressure drop across baghouse: _____ inches H₂O
10. Baghouse operation is:
 Continuous Automatic Intermittent
11. Method used to clean bags:
 Shaker Pulse jet Reverse jet Other
12. Emission rate of particulate matter entering and exiting baghouse at maximum design operating conditions:
Entering baghouse: _____ lb/hr and _____ grains/ACF
Exiting baghouse: _____ lb/hr and _____ grains/ACF
13. Guaranteed minimum baghouse collection efficiency: _____ %
14. Provide a written description of the capture system (e.g. hooding and ductwork arrangement), size of ductwork and hoods and air volume, capacity and operating horsepower of fan:

15. Describe the method of disposal for the collected material:

2. TRANSFER POINTS (including all conveyor transfer points, equipment transfer points etc.)

k =	Particle Size Multiplier (dimensionless)	PM 0.74	PM-10 0.35
U =	Mean Wind Speed (mph)	7	

Transfer Point ID No.	Transfer Point Description Include ID Numbers of all conveyors, crushers, screens, stockpiles, etc. involved	Material Moisture Content %	Maximum Transfer Rate		Control Device ID Number	Control Efficiency %
			TPH	TPY		
TP01	Deep Mine to BC-01	6	1,000	8,760,000	TC-FE	80
TP02	BC-01 to BC-02	6	1,000	8,760,000	TC-FE	80
TP03	BC-02 to BS-01	6	1,000	4,380,000	TC-PE	50
TP04	BS-01 to BC-03	6	1,000	4,380,000	TC-FE	80
TP05	BC-02 to BS-02	6	1,000	4,380,000	TC-PE	50
TP06	BS-02 to BC-03	6	1,000	4,380,000	TC-FE	80
TP07	BC-03 to BC-04	6	1,000	8,760,000	TC-FE	80
TP08	BC-04 to BC-05	6	1,000	8,760,000	TC-FE	80
TP09	BC-05 to OS-01	6	1,000	4,380,000	TC-PE	50
TP10	BC-05 to BC-06	6	1,000	4,380,000	TC-FE	80
TP11	BC-06 to OS-02	6	1,000	4,380,000	TC-PE	50
TP12	OS-01 to BC-07	6	1,000	4,380,000	LO-UC	80
TP13	OS-02 to BC-07	6	1,000	4,380,000	LO-UC	80
TP14	BC-07 to BC-08	6	1,000	8,760,000	TC-FE	80
TP15	BC-08 to BC-09	6	1,000	8,760,000	TC-FE	80
TP16	BC-09 to BC-10	6	1,000	5,256,000	TC-FE	80
TP17	BC-09 to BC-11	6	1,000	3,504,000	TC-FE	80
TP18	BC-11 to BC-12	6	1,000	3,504,000	TC-FE	80
TP19	BC-12 to OS-03	6	1,000	1,752,000	TC-PE	50
TP20	BC-12 to BC-13	6	1,000	1,752,000	TC-FE	80
TP21	BC-13 to BC-14	6	1,000	1,752,000	TC-FE	80
TP22	BC-14 to OS-04	6	1,000	1,752,000	TC-PE	50
TP23	OS-03 to BC-15	6	1,000	1,752,000	LO-UC	80
TP24	OS-04 to BC-15	6	1,000	1,752,000	LO-UC	80
TP25	OS-03 to OS-05	6	200	1,752,000	UL-MDH	0
TP26	OS-05 to Truck	6	200	1,752,000	LO-MDH	0
TP27	BC-10 to OS-06	6	1,000	5,256,000	TC-PE	50
TP28	BC-15 to BC-16	6	1,000	3,504,000	TC-FE	80
TP29	BC-16 to BC-29	6	1,000	3,504,000	TC-FE	80
TP30	Truck to OS-06	6	600	5,256,000	UL-MDH	0
TP31	Truck to BS-03	6	600	5,256,000	UL-MDH	0
TP32	BS-03 to BC-17	6	800	5,256,000	LO-UC	80
TP33	BC-17 to OS-07	6	800	5,256,000	TC-PE	50
TP34	BC-17 to BC-19	6	800	5,256,000	TC-FE	80
TP35	Truck to BS-04	6	600	5,256,000	UL-MDH	0
TP36	BS-04 to BC18	6	800	5,256,000	LO-UC	80
TP37	BC-18 to OS-08	6	800	5,256,000	TC-PE	50
TP38	OS-06 to BC-20	6	1,800	5,256,000	LO-UC	80
TP39	OS-07 to BC-20	6	1,800	5,256,000	LO-UC	80
TP40	OS-08 to BC-20	6	1,800	5,256,000	LO-UC	80
TP41	BC-20 to SS-01	6	1,800	15,768,000	TC-FW	90
TP42	SS-01 to BC-21	6	1,800	7,095,600	TC-FW	90
TP43	BC-21 to Wet Wash	6	1,800	7,095,600	TC-FW	90
TP44	SS-01 to CR-01	6	1,800	7,095,600	TC-FW	90
TP45	CR-01 to BC-22	6	1,800	7,095,600	TC-FW	90
TP46	SS-01 to BC-22	6	1,800	1,576,800	TC-FW	90
TP47	BC-22 to Wet Wash	6	1,800	3,547,800	TC-FW	90
TP48	BC-22 to SS-02	6	1,200	5,124,600	TC-FW	90
TP49	SS-02 to Wet Wash	6	1,200	3,547,800	TC-FW	90
TP50	SS-02 to BC-23	6	180	1,576,800	TC-FW	90
TP51	BC-23 to BC-24	6	180	1,576,800	TC-FW	90
TP52	Plant to BC-24	7	1,000	8,760,000	TC-FW	90
TP53	BC-24 to BC-25	7	1,000	8,760,000	TC-FE	80
TP54	BC-25 to Sampler CR-02	7	1,000	43,800	TC-FE	80
TP55	CR-02 to OS-09	7	1,000	43,800	TC-MDH	0
TP56	BC-25 to OS-09	7	1,000	2,920,000	TC-PE	50
TP57	BC-25 to BC-26	7	1,000	5,840,000	TC-FE	80
TP58	BC-26 to OS-10	7	1,000	2,920,000	TC-PE	50
TP59	BC-26 to BC-27	7	1,000	2,920,000	TC-FE	80

3. WIND EROSION OF STOCKPILES (including all stockpiles of raw coal, clean coal, coal refuse, etc.)

p =	number of days per year with precipitation >0.01 inch	157
f =	percentage of time that the unobstructed wind speed exceeds 12 mph at the mean pile height	20

Source ID No.	Stockpile Description	Silt Content of Material %	Stockpile base area Max. sqft	Control Device ID Number	Control Efficiency %
OS01	Raw Coal	5	104,000	SW-WS	75
OS02	Raw Coal	5	104,000	SW-WS	75
OS03	Harris Excess	5	88,869	SW-WS	75
OS04	DS- Harris	5	88,869	SW-WS	75
OS05	DS- Harris	5	88,869	SW-WS	75
OS06	Raw Coal	5	104,000	SW-WS	75
OS07	Raw Coal	5	104,000	SW-WS	75
OS08	Raw Coal	5	104,000	SW-WS	75
OS09	Clean Coal	3	104,000	SW-WS	75
OS10	Clean Coal	3	104,000	SW-WS	75
OS11	Clean Coal	3	104,000	SW-WS	75

4. UNPAVED HAULROADS (including all equipment traffic involved in process, haul trucks, endloaders, etc.)

s =	silt content of road surface material (%)	10
p =	number of days per year with precipitation >0.01 inch	157
M _{dry} =	surface material moisture content (%) - dry conditions	0.2

Item Number	Description	Number of wheels	Mean Vehicle Weight(tons)	Mean Vehicle Speed (mph)	Miles per Trip	Maximum Trips Per Hour	Maximum Trips Per Year	Control Device ID Number	Control Efficiency %
1	Truck to OS-05 1752000	14	25	15	1	8	70,080	HR-WS	70
2	Truck from OS-05 1752000	14	25	15	1	8	70,080	HR-WS	70
3									
4									
5									
6									
7									
8	Endloader/dozers working 2,000,000 tons	4	30	5	0.01	7.6	66,666	HR-WS	70

5. INDUSTRIAL PAVED HAULROADS (including all equipment traffic involved in process, haul trucks, endloaders, etc.)

sL =	road surface silt loading, (g/ft ²)	5
P =	number of days per year with precipitation >0.01 inch	157

Item Number	Description	Mean Vehicle Weight (tons)	Miles per Trip	Maximum Trips Per Hour	Maximum Trips Per Year	Control Device ID Number	Control Efficiency %
1	Plant Dump Bin BS-03 5256000	45	1	13	116,800	HR-WS	70
2	Plant Dump Bin BS-04 5256000	45	1	13	116,800	HR-WS	70
3	Truck Dump to OS-06 1752000	25	1	8	70,080	HR-WS	70
4							
5							
6							
7							
8							

EMISSIONS SUMMARY

Name of applicant: Rockwell Mining
 Name of plant: Rocklick Plant
OAQ Calc Sheet

Particulate Matter or PM (for 45CSR14 Major Source Determination)

Uncontrolled PM		Controlled PM	
lb/hr	TPY	lb/hr	TPY

FUGITIVE EMISSIONS				
<i>Stockpile Emissions</i>	4.43	19.39	1.11	4.85
<i>Unpaved Haulroad Emissions</i>	180.09	788.80	54.03	236.64
<i>Paved Haulroad Emissions</i>	225.94	1,012.11	67.78	303.63
Fugitive Emissions Total	410.45	1,820.30	122.91	545.12

POINT SOURCE EMISSIONS				
<i>Equipment Emissions</i>	336.10	1,116.02	33.62	111.65
<i>Transfer Point Emissions</i>	65.53	129.59	16.77	35.99
Point Source Emissions Total*	401.63	1,245.62	50.39	147.63

*Note: Point Source Total Controlled PM TPY emissions is used for 45CSR14 Major Source determination (see below)

Facility Emissions Total	812.08	3,065.92	173.30	692.76
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***Facility Potential to Emit (PTE) (Baseline Emissions) = 147.63**
 (Based on Point Source Total controlled PM TPY emissions from above) ENTER ON LINE 26 OF APPLICATION

Particulate Matter under 10 microns, or PM-10 (for 45CSR30 Major Source Determination)

Uncontrolled PM-10		Controlled PM-10	
lb/hr	TPY	lb/hr	TPY

FUGITIVE EMISSIONS				
<i>Stockpile Emissions</i>	2.08	9.11	0.52	2.28
<i>Unpaved Haulroad Emissions</i>	53.16	232.82	15.95	69.85
<i>Paved Haulroad Emissions</i>	43.97	196.97	13.19	59.09
Fugitive Emissions Total	99.21	438.91	29.66	131.22

POINT SOURCE EMISSIONS				
<i>Equipment Emissions</i>	157.97	524.53	15.80	52.47
<i>Transfer Point Emissions</i>	30.99	61.29	7.93	17.02
Point Source Emissions Total*	188.96	585.82	23.73	69.50

*Note: Point Source Total Controlled PM-10 TPY emissions is used for 45CSR30 Major Source determination

Facility Emissions Total	288.17	1,024.73	53.39	200.71
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1. Emissions From CRUSHING AND SCREENING

1a. Primary Crushing

Primary Crusher ID Number	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
CR-01	36.000	70.956	3.600	7.096	16.920	33.349	1.692	3.335
CR-02	0.100	0.438	0.020	0.088	0.047	0.206	0.009	0.041
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	36.100	71.394	3.620	7.183	16.967	33.555	1.701	3.376

1b. Secondary and Tertiary Crushing

Secondary & Tertiary Crusher ID	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

1c. Screening

Screen ID Number	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SS-01	180.000	788.400	18.000	78.840	84.600	370.548	8.460	37.055
SS-02	120.000	256.230	12.000	25.623	56.400	120.428	5.640	12.043
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	300.000	1044.630	30.000	104.463	141.000	490.976	14.100	49.098

Crushing and Screening	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
TOTAL	336.100	1116.024	33.620	111.646	157.967	524.531	15.801	52.474

1. Emissions From CRUSHING AND SCREENING (Continued)

EMISSION FACTORS

source: Air Pollution Engineering Manual and References

(lb/ton of material throughput)

PM	
Primary Crushing	0.02
Tertiary Crushing	0.06
Screening	0.1

PM-10	
Primary Crushing	0.0094
Tertiary Crushing	0.0282
Screening	0.047

2. Emissions From TRANSFER POINTS

Transfer Point ID No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
TP01	0.788	3.450	0.158	0.690	0.373	1.632	0.075	0.326
TP02	0.788	3.450	0.158	0.690	0.373	1.632	0.075	0.326
TP03	0.788	1.725	0.394	0.863	0.373	0.816	0.186	0.408
TP04	0.788	1.725	0.158	0.345	0.373	0.816	0.075	0.163
TP05	0.788	1.725	0.394	0.863	0.373	0.816	0.186	0.408
TP06	0.788	1.725	0.158	0.345	0.373	0.816	0.075	0.163
TP07	0.788	3.450	0.158	0.690	0.373	1.632	0.075	0.326
TP08	0.788	3.450	0.158	0.690	0.373	1.632	0.075	0.326
TP09	0.788	1.725	0.394	0.863	0.373	0.816	0.186	0.408
TP10	0.788	1.725	0.158	0.345	0.373	0.816	0.075	0.163
TP11	0.788	1.725	0.394	0.863	0.373	0.816	0.186	0.408
TP12	0.788	1.725	0.158	0.345	0.373	0.816	0.075	0.163
TP13	0.788	1.725	0.158	0.345	0.373	0.816	0.075	0.163
TP14	0.788	3.450	0.158	0.690	0.373	1.632	0.075	0.326
TP15	0.788	3.450	0.158	0.690	0.373	1.632	0.075	0.326
TP16	0.788	2.070	0.158	0.414	0.373	0.979	0.075	0.196
TP17	0.788	1.380	0.158	0.276	0.373	0.653	0.075	0.131
TP18	0.788	1.380	0.158	0.276	0.373	0.653	0.075	0.131
TP19	0.788	0.690	0.394	0.345	0.373	0.326	0.186	0.163
TP20	0.788	0.690	0.158	0.138	0.373	0.326	0.075	0.065
TP21	0.788	0.690	0.158	0.138	0.373	0.326	0.075	0.065
TP22	0.788	0.690	0.394	0.345	0.373	0.326	0.186	0.163
TP23	0.788	0.690	0.158	0.138	0.373	0.326	0.075	0.065
TP24	0.788	0.690	0.158	0.138	0.373	0.326	0.075	0.065
TP25	0.158	0.690	0.158	0.690	0.075	0.326	0.075	0.326
TP26	0.158	0.690	0.158	0.690	0.075	0.326	0.075	0.326
TP27	0.788	2.070	0.394	1.035	0.373	0.979	0.186	0.490
TP28	0.788	1.380	0.158	0.276	0.373	0.653	0.075	0.131
TP29	0.788	1.380	0.158	0.276	0.373	0.653	0.075	0.131
TP30	0.473	2.070	0.473	2.070	0.224	0.979	0.224	0.979
TP31	0.473	2.070	0.473	2.070	0.224	0.979	0.224	0.979
TP32	0.630	2.070	0.126	0.414	0.298	0.979	0.060	0.196
TP33	0.630	2.070	0.315	1.035	0.298	0.979	0.149	0.490
TP34	0.630	2.070	0.126	0.414	0.298	0.979	0.060	0.196
TP35	0.473	2.070	0.473	2.070	0.224	0.979	0.224	0.979
TP36	0.630	2.070	0.126	0.414	0.298	0.979	0.060	0.196
TP37	0.630	2.070	0.315	1.035	0.298	0.979	0.149	0.490
TP38	1.418	2.070	0.284	0.414	0.671	0.979	0.134	0.196
TP39	1.418	2.070	0.284	0.414	0.671	0.979	0.134	0.196
TP40	1.418	2.070	0.284	0.414	0.671	0.979	0.134	0.196
TP41	1.418	6.210	0.142	0.621	0.671	2.937	0.067	0.294
TP42	1.418	2.795	0.142	0.279	0.671	1.322	0.067	0.132
TP43	1.418	2.795	0.142	0.279	0.671	1.322	0.067	0.132
TP44	1.418	2.795	0.142	0.279	0.671	1.322	0.067	0.132
TP45	1.418	2.795	0.142	0.279	0.671	1.322	0.067	0.132
TP46	1.418	0.621	0.142	0.062	0.671	0.294	0.067	0.029
TP47	1.418	1.397	0.142	0.140	0.671	0.661	0.067	0.066
TP48	0.945	2.018	0.095	0.202	0.447	0.955	0.045	0.095
TP49	0.945	1.397	0.095	0.140	0.447	0.661	0.045	0.066
TP50	0.142	0.621	0.014	0.062	0.067	0.294	0.007	0.029
TP51	0.142	0.621	0.014	0.062	0.067	0.294	0.007	0.029
TP52	0.635	2.781	0.063	0.278	0.300	1.315	0.030	0.132

0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	65.527	129.592	16.765	35.988	30.992	61.294	7.929	17.022

Source:

AP42, Fifth Edition, Revised 11/2006
 13.2.4 Aggregate Handling and Storage Piles

Emissions From Batch Drop

$$E = k \cdot (0.0032) \cdot [(U/5)^{1.3}] / [(M/2)^{1.4}] = \text{pounds/ton}$$

Where:

		PM	PM-10
k =	Particle Size Multiplier (dimensionless)	0.74	0.35
U =	Mean Wind Speed (mph)		
M =	Material Moisture Content (%)		

Assumptions:

k - Particle size multiplier

For PM (< or equal to 30um) k = 0.74

For PM-10 (< or equal to 10um) k = 0.35

Emission Factor

For PM $E = \frac{0.0032 \cdot k \cdot (U/5)^{1.3}}{(M/2)^{1.4}}$ =lb/ton

For PM-10 $E = \frac{0.0032 \cdot k \cdot (U/5)^{1.3}}{(M/2)^{1.4}}$ =lb/ton

For lb/hr $[\text{lb/ton}] \cdot [\text{ton/hr}] = [\text{lb/hr}]$

For Tons/year $[\text{lb/ton}] \cdot [\text{ton/yr}] \cdot [\text{ton}/2000\text{lb}] = [\text{ton/yr}]$

3. Emissions From WIND EROSION OF STOCKPILES

Stockpile ID No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
OS01	0.665	2.914	0.166	0.728	0.313	1.370	0.078	0.342
OS02	0.665	2.914	0.166	0.728	0.313	1.370	0.078	0.342
OS03	0.568	2.490	0.142	0.622	0.267	1.170	0.067	0.293
OS04	0.665	2.914	0.166	0.728	0.313	1.370	0.078	0.342
OS05	0.568	2.490	0.142	0.622	0.267	1.170	0.067	0.293
OS06	0.665	2.914	0.166	0.728	0.313	1.370	0.078	0.342
OS07	0.665	2.914	0.166	0.728	0.313	1.370	0.078	0.342
OS08	0.665	2.914	0.166	0.728	0.313	1.370	0.078	0.342
OS09	0.399	1.748	0.100	0.437	0.188	0.822	0.047	0.205
OS10	0.399	1.748	0.100	0.437	0.188	0.822	0.047	0.205
OS11	0.399	1.748	0.100	0.437	0.188	0.822	0.047	0.205
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS	4.427	19.390	1.107	4.848	2.081	9.113	0.520	2.278

Source:

Air Pollution Engineering Manual

Storage Pile Wind Erosion (Active Storage)

$$E = 1.7 * [s/1.5] * [(365-p)/235] * [f/15] = (\text{lb/day/acre})$$

Where:

s =	silt content of material
p =	number of days with >0.01 inch of precipitation per year
f =	percentage of time that the unobstructed wind speed exceeds 12 mph at the mean pile height

Emission Factors

For PM $E = (1.7) * ((\text{Inputs!F147})/1.5) * ((365 - \text{Inputs!I139})/235) * ((\text{Inputs!I140})/15)$

For PM-10 $E = 0.47 * (1.7) * ((\text{Inputs!F147})/1.5) * ((365 - \text{Inputs!I139})/235) * ((\text{Inputs!I140})/15)$

For lb/hr $[\text{lb/day/acre}] * [\text{day}/24\text{hr}] * [\text{base area of pile (acres)}] = \text{lb/hr}$

For Ton/yr $[\text{lb/day/acre}] * [365\text{day/yr}] * [\text{Ton}/2000\text{lb}] * [\text{base area of pile (acres)}] = \text{Ton/yr}$

4. Emissions From UNPAVED HAULROADS

Item No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
1	89.58	392.38	26.88	117.71	26.44	115.81	7.93	34.74
2	89.58	392.38	26.88	117.71	26.44	115.81	7.93	34.74
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.92	4.05	0.28	1.22	0.27	1.20	0.08	0.36
TOTALS	180.09	788.80	54.03	236.64	53.16	232.82	15.95	69.85

Source:

AP42, Fifth Edition, Revised 11/2006

13.2.2 Unpaved Roads

Emission Estimate For Unpaved Haulroads at Industrial Sites (equation 1)

$$E = k \cdot \left(\frac{s}{12}\right)^a \cdot \left(\frac{W}{3}\right)^b = \text{lb/vmt}$$

Where:

		PM	PM-10
k =	particle size multiplier	4.90	1.50
a =	empirical constant	0.7	0.9
b =	empirical constant	0.45	0.45
P =	number of days per year with precipitation >0.01 inch	157	

Emission Factors

For PM $E = \left(\frac{I}{35}\right) \cdot \left(\frac{Inputs}{163}\right)^{12} \cdot \left(\frac{H}{171}\right)^3 \cdot \left(\frac{J}{37}\right) \cdot (365 - P)$

For PM-10 $E = \left(\frac{J}{35}\right) \cdot \left(\frac{Inputs}{163}\right)^{12} \cdot \left(\frac{H}{171}\right)^3 \cdot \left(\frac{J}{37}\right) \cdot (365 - P)$

For lb/hr $(\text{lb/vmt}) \cdot (\text{miles per trip}) \cdot (\text{Max trips per hour})$

For Ton/yr $(\text{lb/vmt}) \cdot (\text{miles per trip}) \cdot (\text{Max trips per year}) \cdot (1/2000)$

5. Emissions From INDUSTRIAL PAVED HAULROADS

Item No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
1	100.21	450.17	30.06	135.05	19.51	87.64	5.85	26.29
2	100.21	450.17	30.06	135.05	19.51	87.64	5.85	26.29
3	25.52	111.76	7.65	33.53	4.95	21.69	1.49	6.51
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS	225.94	1012.11	67.78	303.63	43.97	196.97	13.19	59.09

Source:

AP42, Fifth Edition, Revised 11/2006
13.2.1 PAVED ROADS

Emission Estimate For Paved Haulroads

$$E = [k * (sL/2)^{0.65} * (W/3)^{1.5} - C] * (1 - (P/4 * N)) = \text{lb / Vehicle Mile Traveled (VMT)}$$

Where:

		PM	PM-10
k =	particle size multiplier	0.082	0.016
sL =	road surface silt loading, (g/ft ²)	5	
P =	number of days per year with precipitation >0.01 inch	157	
N =	number of days in averaging period	365	
C =	factor for exhaust, brake wear and tire wear	0.0047	0.0047

Emission Factors

For PM E= (\$34 * ((((\$35)/2)^{0.65}) * (((Inputs!G190)/3)^{1.5}) - (\$38)) * (1 - ((Inputs!G190)/4 * 365)))

For PM-10 E= (\$34 * ((((\$35)/2)^{0.65}) * (((Inputs!G190)/3)^{1.5}) - (\$38)) * (1 - ((Inputs!G190)/4 * 365)))

For lb/hr (lb/vmt) * (miles per trip) * (Max trips per hour)

For Ton/yr (lb/vmt) * (miles per trip) * (Max trips per year) * (1/2000)

Legal Advertisement

**AIR QUALITY PERMIT NOTICE
Notice of Application**

Notice is given that Rockwell Mining, LLC has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a General Permit Registration for a preparation plant and railcar loadout facility located on Route 85 near Wharton in Boone County, West Virginia. The location coordinates for the facility are: latitude 37.842689 and longitude -81.630033.

The applicant estimates the potential to discharge the following Regulated Air Pollutants will be: particulate matter baseline emissions of 148 ton per year, point source emissions particulate matter less than 10 microns total of 70 tons per year, and the controlled facility emission total of 693 tons per year.

Startup of operation is planned to begin upon permit approval. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1250, during normal business hours.

Dated this the 5th day of April 2017

By: Rockwell Mining, LLC
D. Edward Brown
Vice President
3228 Summit Square Place
Suite 180
Lexington, KY 40509

ATTACHMENT K

ELECTRONIC SUBMITTAL

SECTION IV. CERTIFICATION OF INFORMATION

This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company, Association, Joint Venture or Sole Proprietorship. Required records of daily throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all required notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.

FOR A CORPORATION (domestic or foreign)

I certify that I am a President, Vice President, Secretary, Treasurer or in charge of a principal business function of the corporation

FOR A PARTNERSHIP

I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

I certify that I am a General Partner or General Manager

FOR AN ASSOCIATION

I certify that I am the President or a member of the Board of Directors

FOR A JOINT VENTURE

I certify that I am the President, General Partner or General Manager

FOR A SOLE PROPRIETORSHIP

I certify that I am the Owner and Proprietor

is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Proprietorship) and may obligate and legally bind the business. If the business changes its Authorized Representative, a Responsible Official shall notify the Chief of the Office of Air Quality immediately, and/or,

I hereby certify that all information contained in this General Permit Registration Application and any supporting documents appended hereto is, to the best of my knowledge, true, accurate and complete, and that all reasonable efforts have been made to provide the most comprehensive information possible

Signature *D. Edward Brown* 03/27/2017
(please use blue ink) Responsible Official Date

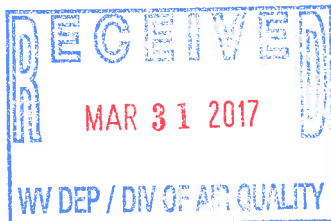
Name & Title D. EDWARD BROWN, VICE PRESIDENT
(please print or type)

Signature _____
(please use blue ink) Authorized Representative (if applicable) Date

Applicant's Name: **ROCKWELL MINING, LLC**

Phone: 304-247-6267 (Erman Moore, contact) emoore@blackhawkmining.com

Email: ebrown@blackhawkmining.com



SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

PLEASE CHECK ALL ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

Please See the appropriate reference document for an explanation of the attachments listed below.

- ATTACHMENT A : CURRENT BUSINESS CERTIFICATE
- ATTACHMENT B: PROCESS DESCRIPTION
- ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS
- ATTACHMENT D: PROCESS FLOW DIAGRAM
- ATTACHMENT E: PLOT PLAN
- ATTACHMENT F: AREA MAP
- ATTACHMENT G: AFFECTED SOURCE SHEETS
- ATTACHMENT H: BAGHOUSE AIR POLLUTION CONTROL DEVICE SHEET
- ATTACHMENT I: EMISSIONS CALCULATIONS
- ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT
- ATTACHMENT K: ELECTRONIC SUBMITTAL DISKETTE
- CERTIFICATION OF INFORMATION
- APPLICATION FEE

PLEASE MAIL AN ORIGINAL AND TWO COPIES OF THE COMPLETE GENERAL PERMIT REGISTRATION APPLICATION WITH THE SIGNATURE(S) TO THE DAQ PERMITTING SECTION AT THE ADDRESS SHOWN ON THE FRONT PAGE. PLEASE DO NOT FAX PERMIT APPLICATIONS. FOR QUESTIONS REGARDING APPLICATIONS OR WEST VIRGINIA AIR POLLUTION RULES AND REGULATIONS PLEASE CALL (304) 926-3727.