

Coresco, LLC

Maidsville, West Virginia

Plant ID No. 061-00165

Application for General Permit Modification

November 2016

Prepared by:



517 Sixth Avenue
St. Albans, WV 25177

Table of Contents

Application for Permit	1
Attachment A – Current Business Certificate	6
Attachment B – Process Description	7
Attachment C – Description of Fugitive Emissions	9
Attachment D – Process Flow Diagram.....	10
Attachment E – Plot Plan	11
Attachment F – Area Map	12
Attachment G – Equipment Data Sheets.....	13
Attachment H – Air Pollution Control Device Sheets	N/A
Attachment I – Emissions Calculations	23
Attachment J – Class I Legal Advertisement.....	46
Attachment K – Electronic Submittal	47
Attachment L – Application Fee	48



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

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

- CONSTRUCTION MODIFICATION RELOCATION CLASS I ADMINISTRATIVE UPDATE
 CLASS II ADMINISTRATIVE UPDATE

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

- | | |
|---|--|
| <input checked="" type="checkbox"/> G10-D – Coal Preparation and Handling
<input type="checkbox"/> G20-B – Hot Mix Asphalt
<input type="checkbox"/> G30-D – Natural Gas Compressor Stations
<input type="checkbox"/> G33-A – Spark Ignition Internal Combustion Engines
<input type="checkbox"/> G35-A – Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit) | <input type="checkbox"/> G40-C – Nonmetallic Minerals Processing
<input type="checkbox"/> G50-B – Concrete Batch
<input type="checkbox"/> G60-C - Class II Emergency Generator
<input type="checkbox"/> G65-C – Class I Emergency Generator
<input type="checkbox"/> G70-A – Class II Oil and Natural Gas Production Facility |
|---|--|

SECTION I. GENERAL INFORMATION

1. Name of applicant (as registered with the WV Secretary of State's Office): Coresco, LLC		2. Federal Employer ID No. (FEIN): 35-2306397	
3. Applicant's mailing address: 103 Corporate Drive, Suite 102 Morgantown, WV, 26505		4. Applicant's physical address: 624 Crafts Run Road Maidsville, WV, 26541	
5. If applicant is a subsidiary corporation, please provide the name of parent corporation: N/A			
6. WV BUSINESS REGISTRATION. Is the applicant a resident of the State of West Virginia? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO – IF YES , provide a copy of the Certificate of Incorporation/ Organization / Limited Partnership (one page) including any name change amendments or other Business Registration Certificate as Attachment A . – IF NO , provide a copy of the Certificate of Authority / Authority of LLC / 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	8a. Standard Industrial Classification (SIC) code: 1221 and 1222 AND 8b. North American Industry Classification System (NAICS) code: 212111 and 212112
9. DAQ Plant ID No. (for existing facilities only): 061-00161	10. List all current 45CSR13 and other General Permit numbers associated with this process (for existing facilities only): G10-D102F

A: PRIMARY OPERATING SITE INFORMATION

11A. Facility name of primary operating site: <p align="center">Maidsville Coal Preparation Plant</p>	12A. Address of primary operating site: Mailing: 103 Corporate Drive, Suite 102 Morgantown, WV, 26505 Physical: 624 Crafts Run Road Maidsville, WV, 26541	
13A. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO – IF YES , please explain: Applicant owns site – 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. Include a MAP as Attachment F . 3.1 miles north of Maidsville post office on Route 53 following the river. After cresting the bluff go approximately 0.8 miles and turn left. Go 0.5 miles west on dirt road. The plant is on the right.		
15A. Nearest city or town: <p align="center">Maidsville</p>	16A. County: <p align="center">Monongalia</p>	17A. UTM Coordinates: Northing (KM): 4,395.4 Easting (KM): 588.7 Zone: 17
18A. Briefly describe the proposed new operation or change (s) to the facility: This modification increases the throughput received on the overland conveyor from Pennsylvania.		19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: 39.70399 Longitude: -79.964506

B: 1ST ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits)

11B. Name of 1 st alternate operating site: _____ _____	12B. Address of 1 st alternate operating site: Mailing: _____ Physical: _____ _____	
13B. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? <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 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. Include a **MAP as Attachment F.**

15B. Nearest city or town:	16B. County:	17B. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ Zone: _____
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18B. Briefly describe the proposed new operation or change (s) to the facility:	19B. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: _____ Longitude: _____
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C: 2ND ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits):

11C. Name of 2 nd alternate operating site: _____ _____	12C. Address of 2 nd alternate operating site: Mailing: _____ Physical: _____ _____
--	--

13C. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? **YES** **NO**

– IF **YES**, please explain: _____

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

14C. – 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. Include a **MAP as Attachment F.**

15C. Nearest city or town:	16C. County:	17C. UTM Coordinates: Northing (KM): _____ Easting (KM): _____ Zone: _____
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18C. Briefly describe the proposed new operation or change (s) to the facility:	19C. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: _____ Longitude: _____
---	--

<p>20. Provide the date of anticipated installation or change:</p> <p>ASAP</p> <p><input type="checkbox"/> If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: :</p> <p>September 2012 & July 2014</p>	<p>21. Date of anticipated Start-up if registration is granted:</p> <p>ASAP</p>
<p>22. Provide maximum projected Operating Schedule of activity/activities outlined in this application if other than 8760 hours/year. (Note: anything other than 24/7/52 may result in a restriction to the facility's operation).</p> <p>Hours per day 24 Days per week 7 Weeks per year 52 Percentage of operation 100</p>	

SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

<p>23. Include a check payable to WVDEP – Division of Air Quality with the appropriate application fee (per 45CSR22 and 45CSR13).</p>
<p>24. Include a Table of Contents as the first page of your application package.</p>
<p>All of the required forms and additional information can be found under the Permitting Section (General Permits) of DAQ's website, or requested by phone.</p>
<p>25. Please check all attachments included with this permit application. Please refer to the appropriate reference document for an explanation of the attachments listed below.</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> ATTACHMENT A : CURRENT BUSINESS CERTIFICATE <input checked="" type="checkbox"/> ATTACHMENT B: PROCESS DESCRIPTION <input checked="" type="checkbox"/> ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS <input checked="" type="checkbox"/> ATTACHMENT D: PROCESS FLOW DIAGRAM <input checked="" type="checkbox"/> ATTACHMENT E: PLOT PLAN <input checked="" type="checkbox"/> ATTACHMENT F: AREA MAP <input checked="" type="checkbox"/> ATTACHMENT G: EQUIPMENT DATA SHEETS AND REGISTRATION SECTION APPLICABILITY FORM <input type="checkbox"/> ATTACHMENT H: AIR POLLUTION CONTROL DEVICE SHEETS <input checked="" type="checkbox"/> ATTACHMENT I: EMISSIONS CALCULATIONS <input checked="" type="checkbox"/> ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT <input checked="" type="checkbox"/> ATTACHMENT K: ELECTRONIC SUBMITTAL <input checked="" type="checkbox"/> ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE <input type="checkbox"/> ATTACHMENT M: SITING CRITERIA WAIVER <input type="checkbox"/> ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (MSDS) <input type="checkbox"/> ATTACHMENT O: EMISSIONS SUMMARY SHEETS <input type="checkbox"/> OTHER SUPPORTING DOCUMENTATION NOT DESCRIBED ABOVE (Equipment Drawings, Aggregation Discussion, etc.) <p>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 of this application. Please DO NOT fax permit applications. For questions regarding applications or West Virginia Air Pollution Rules and Regulations, please refer to the website shown on the front page of the application or call the phone number also provided on the front page of the application.</p>

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

I hereby certify that (please print or type) Randall Maggard

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 Director 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

(please use blue ink)

Brian Osborn
Responsible Official

11/9/14
Date

Name & Title

(please print or type)

Brian Osborn, Senior Vice President of Operations

Signature

(please use blue ink)

Randall Maggard
Authorized Representative (if applicable)

11/9/14
Date

Applicant's Name Coresco, LLC

Phone & Fax

(304) 296-9701 x 244 311

Phone

(304) 296-8429

Fax

Email

rmaggard@mepcoinc.com rmaggard@mepco11c.net

Attachment A

Current Business Certificate

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

ISSUED TO:
**CORESCO, LLC
308 DENTS RUN RD
MORGANTOWN, WV 26501-2006**

BUSINESS REGISTRATION ACCOUNT NUMBER: **2188-7150**

This certificate is issued on: 06/14/2011

*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.

atL006 v.4
L1623284864

Attachment B

Process Description

Attachment B

Process Description

Coresco, LLC (Coresco) proposes to revise General Permit Registration G10-D102F for the coal preparation plant at their Maidsville site located near Maidsville in Monongalia County, West Virginia.

Proposed Modification

The only change in this application for a Class II Administrative Update is to increase the throughput received on BC-1 from the overland conveyor for coal from operations in Pennsylvania. This will increase throughput on the following transfer points: TP-1, TP-2, TP-29, TP-30, and TP-31. Because the coal cannot be conveyed to both SP-1 and SP-5, the transfer points for these two stockpiles (TP-2 and TP31) are alternatives. To be conservative, it is assumed that all coal from Pennsylvania is conveyed to one of these two stockpiles.

Facility Description (NO CHANGE)

Raw coal can arrive at the site by truck or the overland conveyor system. Coal from the overland system conveyor BC-1/PE can transfer (TP-1/FE) to radial stacker RS-1/PE then onto stockpile SP-1/NC (TP-2/NC) or transfer (TP-1/FE) to BC-9/PE. Coal from BC-9/PE transfers (TP-29/FE) to BC-12/PE then offsite or to BC-10/PE to RS-2/PE (TP-30/PE) to SP-5/NC (TP-31/NC). Coal from SP-5/NC is reclaimed by truck/dozer/endloader (TP-43/NC). BC-11/PE is fed by feeder/breaker FB-2/FE (TP-37/NC, TP-38/PE), which in turn transfers onto BC-12/PE (TP-33/FE). Coal from other facility stockpiling can also be transported to, and reclaimed by, the system.

Raw coal from stockpiling is transferred (TP-4/PE) by truck or endloader to bin BS-1/PE to belt conveyor BC-1A/PE (TP-5/PE) then to sizer SZ-1/FE (TP-6/FE) and transferred (TP-7/FE) to conveyor BC-2/PE where it enters the plant wet circuit. Coal exits the wet circuit at multiple locations. It can leave the wet circuit (TP-9/FE) via conveyor BC-3/PE where it is deposited into stockpile SP-6/NC (TP-10/NC). Coal is removed from SP-6/NC by truck via endloader (TP-11/NC). TP-15/FE, TP-16/FE, TP-17/FE, & TP-19/FE transfer to the clean coal conveyor BC-5/PE where it is deposited (TP-20/PE) onto radial stacker RS-3/PE. RS-3/PE then transfers (TP-21/NC) the clean coal to the stockpile SP-4/NC. Coal from SP-4/NC is loaded to truck by endloader (TP-22/NC).

Refuse leaves the plant (TP-23/FE) via BC-6/PE and transfers (TP-24/PE) to BC-7/PE and then transfers from BC-7/PE to the refuse area by conveyor belts BC-8/PE (TP-25/PE) to BC-13/PE (TP-26/PE) to BC-14/PE (TP-27/PE) to BC-15/PE (TP-28/PE) to radial stacker RS-4/PE (TP-39/PE) to the refuse area (TP-40/NC). There will be endloader and trucking activities at the refuse area (TP-41/NC, TP-42/NC). Some trucking is required to develop the refuse area and the refuse conveyors will be placed into service as needed to develop the refuse pile. Initially there will be two (2) conveyors (BC-6/PE and BC-7/PE) to the radial stacker RS-4/PE. As development continues, BC-7/PE may be lengthened and the additional conveyors (BC-8/PE, BC-13/PE, BC-14/PE, and BC-15/PE) will be added. Radial stacker RS-4/PE will be located at a transfer location where needed. Wet belt press material leaves the plant (TP-23/FE) on conveyor BC-17/PE to BC-18/PE (TP-45/PE) to stockpile SP-8/NC (TP-46/NC).

Portable Crusher HM-1 (TP47/PE, TP-48/PE) is available onsite and can be utilized to size material at the Preparation Plant. Portable screen (SC-1) is fed (TP-49/PE) from stockpile SP-2 or SP-3. The coal exits the screen (TP-50/NC and TP-51/NC) on two conveyors. One conveyor (BC-19/NC) transfers coal (TP-52/NC) to an “under” pile, which is located within the footprint of SP-5. The other conveyor (BC-20/NC) transfers coal (TP-53/NC) to an “over” pile, which is transferred immediately to the portable hammermill crusher (HM-1).

A Storage Bin (BS-3/FE) with baghouse dust collection (emission point E1) supplies the Preparation Plant with magnetite.

Attachment C

Description of Fugitive Emissions

Attachment C

Description of Fugitive Emissions

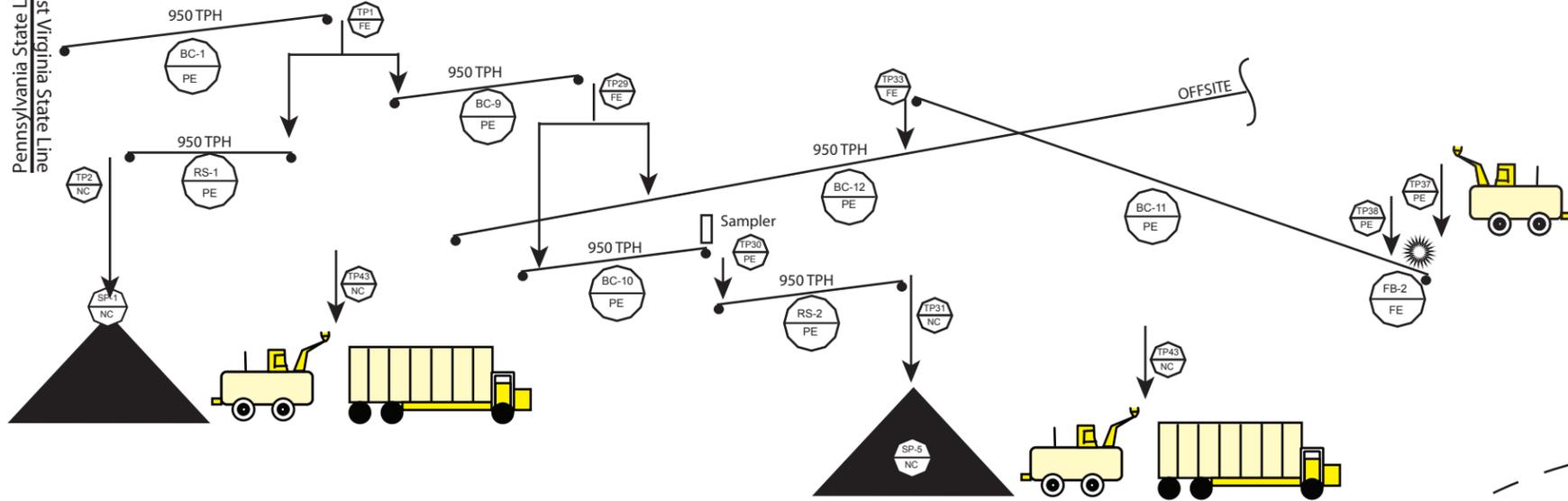
Fugitive emissions sources are not changes by this modification. Fugitive emissions from the facility include particulate emissions from haulroads, stockpiles, and work areas. The haulroad surfaces are coarse gravel and are used by raw coal, clean coal, refuse trucks, and by endloaders/dozers. Water is applied to the haulroads as needed via a water truck.

Attachment D

Process Flow Diagram

From Pennsylvania System

West Virginia State Line
Pennsylvania State Line



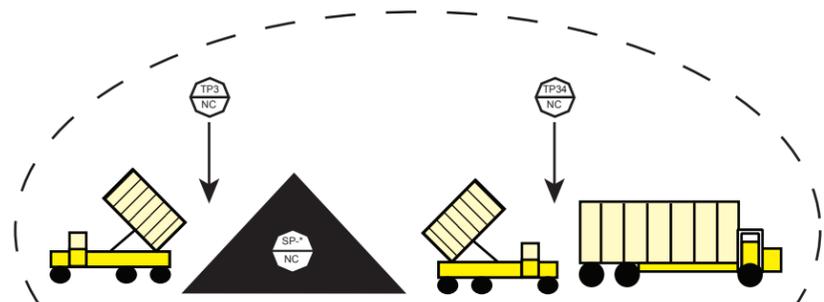
ATTACHMENT D

Maidsville Plant
Process Flow Diagram
Monongalia County, West Virginia
Plant I.D. No. 03-54-061-00161

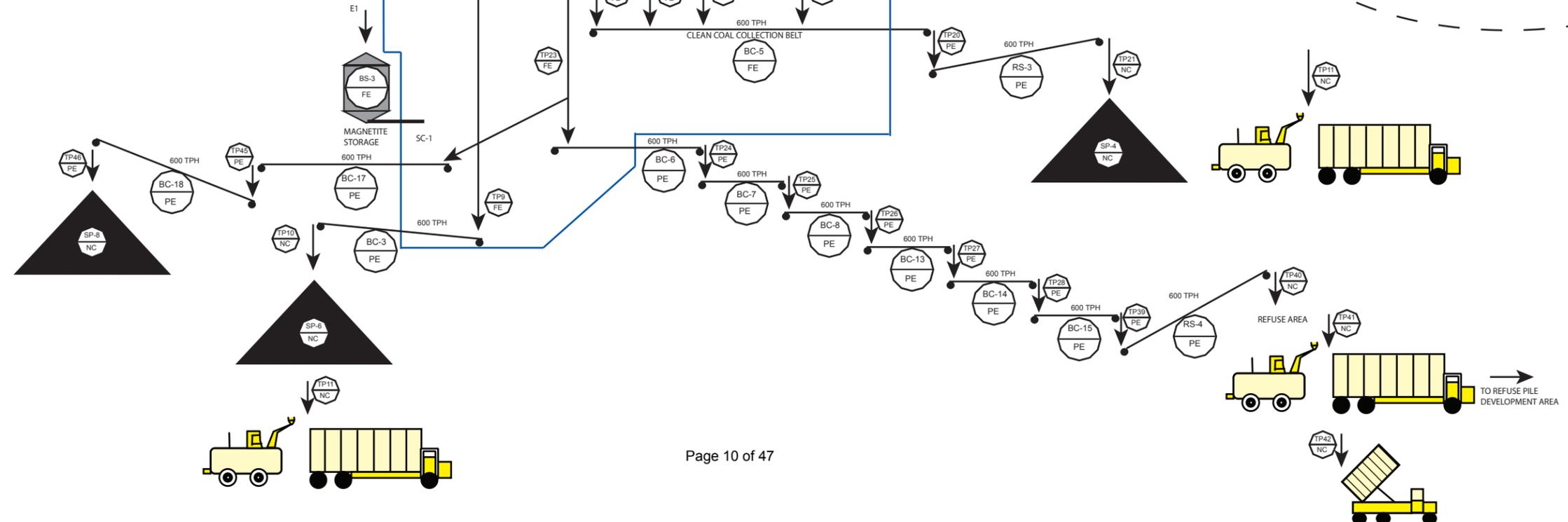
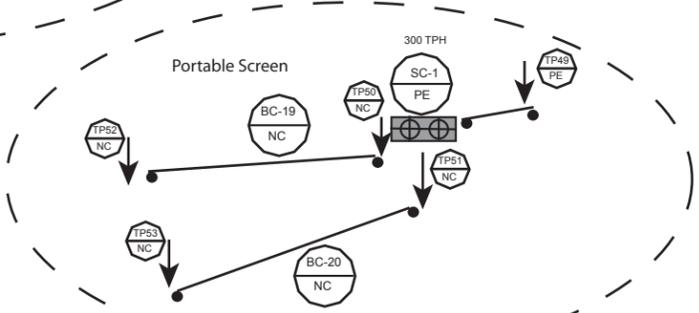
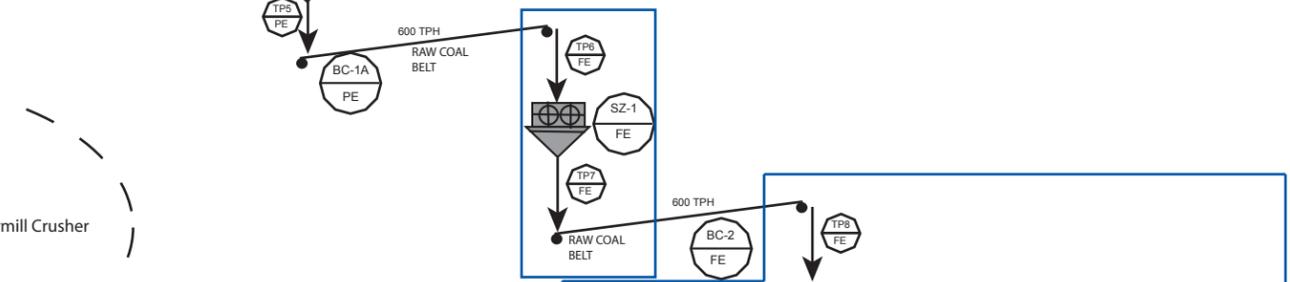
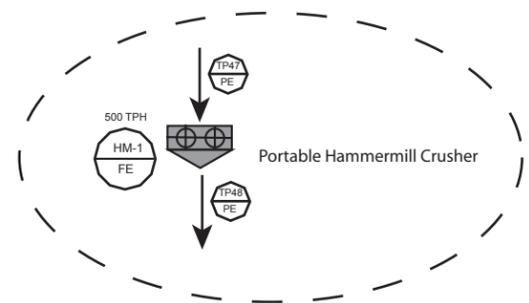
Coresco, LLC
Maidsville, West Virginia

HENTHORN
Environmental Services

Date Updated: 22 October 2014



*Transportation of coal to and from stockpiles SP-2, SP-3, SP-4, SP-5, SP-7, SP-9, SP-10, SP-11, SP-12



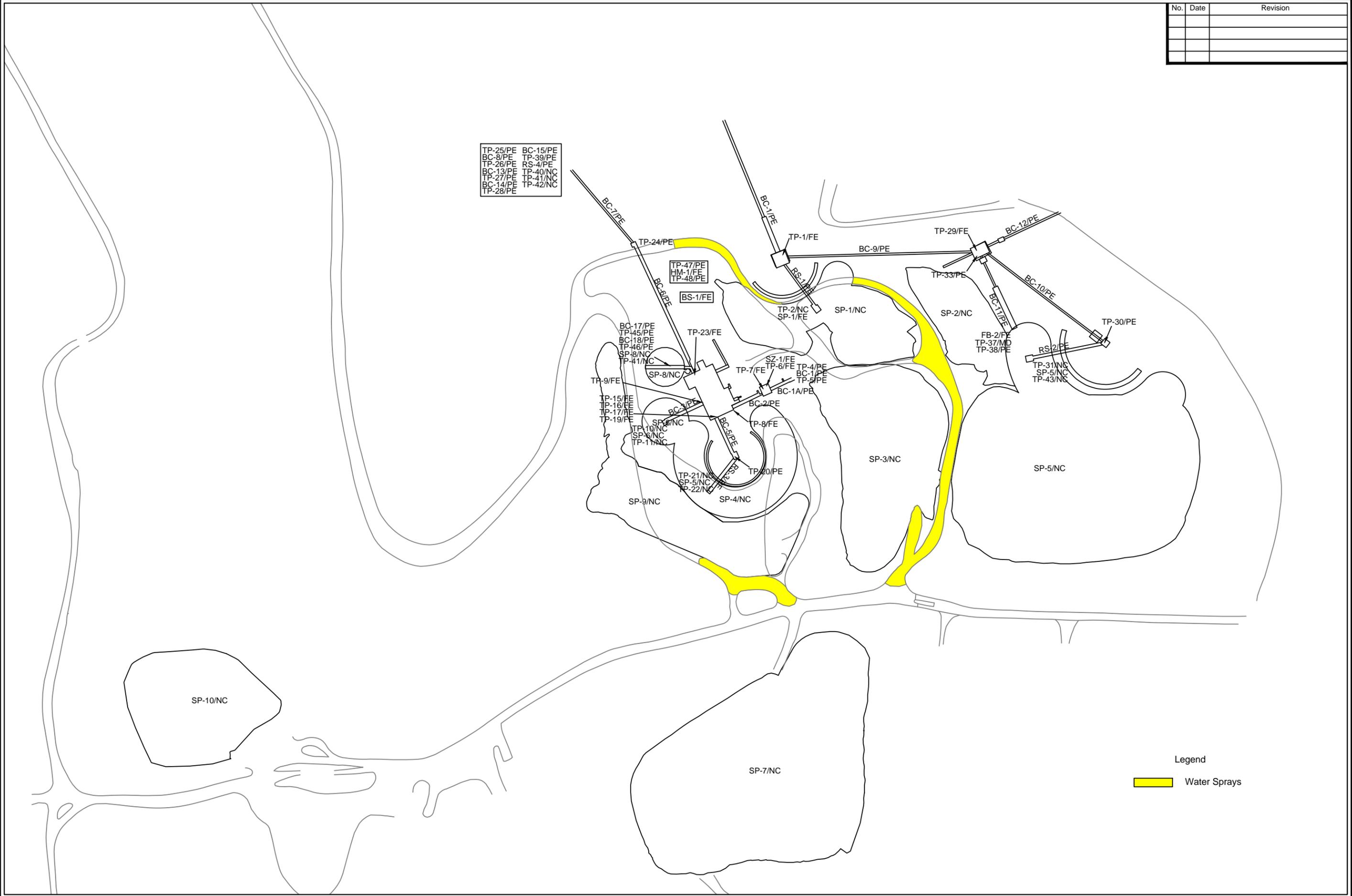
Attachment E

Plot Plan

No.	Date	Revision

xx-xx-xxxx
 MFN No.
 HES
 Drawn
 HES
 CHECKED
 HES
 Approved
 NOT TO SCALE
 Scale:
 June 2014
 Date:
 Project No.
 Project No.

TP-25/PE BC-15/PE
 BC-8/PE TP-39/PE
 TP-26/PE RS-4/PE
 BC-13/PE TP-40/NC
 TP-27/PE TP-41/NC
 BC-14/PE TP-42/NC
 TP-28/PE



CORESCO, LLC
 308 Dentis Run Road Morgantown, WV 26501
 TEL: 304-296-4501 FAX: 304-296-9429



MAIDSVILLE PREPARATION PLANT
 CORESCO, LLC
 MAIDSVILLE, WEST VIRGINIA

SITE PLAN

Title
1
 Drawing No.

Attachment F

Area Map

Attachment G

Equipment Data Sheets

General Permit G10-D Registration Section Applicability Form

General Permit 10-D allows qualified registrants to seek registration for a variety of sources. These sources include coal preparation and processing plants or coal handling operations which include crushers, screens, transfer points (loading, unloading, etc.), open stockpiles, bins, haulroads, reciprocating internal combustion engine driven compressors, emergency standby generators, and tanks. All registered facilities will be subject to Sections 1.0, 1.1, 2.0, 3.0 and 4.0.

General Permit G10-D allows the registrant to choose which sections of the permit that they wish to seek registration under. Therefore, please mark which sections that you are applying for registration under. Please keep in mind, that if this registration is approved, the issued registration will state which sections will apply to your affected facility.

Section 5 ¹	Coal Preparation and Processing Plants and Coal Handling Operations	<input checked="" type="checkbox"/>
Section 6	Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after October 27, 1974, and on or before April 27, 2008 (40CFR60 Subpart Y)	<input type="checkbox"/>
Section 7	Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after April 28, 2008, and on or before May 27, 2009 (40CFR60 Subpart Y)	<input type="checkbox"/>
Section 8	Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after May 27, 2009 (40CFR60 Subpart Y)	<input checked="" type="checkbox"/>
Section 9 ²	Reciprocating Internal Combustion Engines (R.I.C.E.)	<input type="checkbox"/>
Section 10	Tanks	<input checked="" type="checkbox"/>
Section 11	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40CFR60 Subpart III)	<input type="checkbox"/>
Section 12	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJ)	<input type="checkbox"/>

1 Affected facilities that are subject to Section 5 may also be subject to Sections 6, 7, and 8. Therefore, if the applicant is seeking registration under multiple sections, they will need to select all applicable sections.

2 Affected facilities that are subject to Section 9 may also be subject to Sections 11 or 12. Therefore, if the applicant is seeking registration under multiple sections, they will need to select all applicable sections.

CRUSHING AND SCREENING AFFECTED SOURCE SHEET

Source Identification Number ¹		SZ-1	FB-1	FB-2	HM-1	SC-1
Type of Crusher or Screen ²		DR	OT	OT	HM	DD
Make, Model No., Serial No. ³		NA	NA	NA	Screen Machine Impactor Model 4043	Finlay 693+ Supertrack
Date of Construction, Reconstruction, or Modification (Month/Year) ⁴		Dec 2008	Removed	Nov. 2009	Sept. 2012	July 2014
Maximum Throughput ⁵	tons/hour	600		950	500	300
	tons/year	5.256 MM		3.0 MM	3.0 MM	3.0 MM
Material sized from/to: ⁶		8"x0/2"x0		8"x0/2"x0	8"x0/2"x0	N/A
Average Moisture Content (%) ⁷		5		5	5	5
Control Device ID Number ⁸		FE		FE	FE	PE
Baghouse Stack Parameters ⁹	height (ft)					
	diameter (ft)					
	volume (ACFM)					
	exit temp (F)					
	UTM Coordinates					
Maximum Operating Schedule ¹⁰	hours/day	24		24	24	24
	days/year	365		365	365	365
	hours/year	8760		8760	8760	8760

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
GC	Gyratory Crusher	OT	Other		
3. Enter the make, model number, and serial number of the crusher/screen.
4. Enter the date that each crusher and screen was constructed, reconstructed, or modified.
5. Enter the maximum throughput for each crusher and screen in tons per hour and tons per year.
6. Describe the nominal material size reduction (e.g. +2"/ -3/8").
7. Enter the average percent moisture content of the material processed.
8. 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.
9. Enter the appropriate stack parameters if a baghouse control device is used.
10. Enter the maximum operating schedule for each crusher and screen in hours per day, days per year and hours per year.

CONVEYING AFFECTED SOURCE SHEET

Source Identification Number ¹	Date of Construction, Reconstruction, or Modification (Month/Year) 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-1	Aug 2010	RC/SC	6"x 0	950	5,020,000	5	PE
RS-1	Nov 2009	RC/SC	6"x 0	950	5,020,000	5	PE
BC-1A	Nov 2008	RC	8"x 0	600	5,256,000	5	PE
BC-2	Mar 2009	RC	8"x 0	600	5,256,000	5	PE
BC-3	Apr 2009	SC	2"x 0	600	5,256,000	5	PE
BC-5	Jan 2009	CC	2"x 0	600	5,256,000	5	PE
RS-3	Apr 2009	CC	2"x 0	600	5,256,000	5	PE
BC-6	Feb 2009	R	2"x 0	600	5,256,000	5	PE
BC-7	May 2009	R	2"x 0	600	5,256,000	5	PE
BC-8	As Needed*	R	2"x 0	600	5,256,000	5	PE
BC-13	As Needed*	R	2"x 0	600	5,256,000	5	PE
BC-14	As Needed*	R	2"x 0	600	5,256,000	5	PE
BC-15	As Needed*	R	2"x 0	600	5,256,000	5	PE
RS-4	May 2009	R	2"x 0	600	5,256,000	5	PE
SC-1	Mar 2009	O	MAG	0.3	2,628	0	Wet Process
BC-9	Dec 2009	SC	6"x 0	950	5,020,000	5	PE
BC-10	Feb 2010	RC/SC	6"x 0	950	5,020,000	5	PE
BC-11	Nov 2009	RC/SC	6"x 0"	950	3,000,000	5	PE
BC-12	Oct 2009	RC/SC	6"x 0	950	5,020,000	5	PE
RS-2	Jan 2010	RC/SC	6"x 0	950	5,020,000	5	PE
BC-16	Removed						
BC-17	Mar 2009	R	2"x 0	600	5,256,000	10	PE
BC-18	June 2009	R	2"x 0	600	5,256,000	10	PE
BC-19	July 2014	SC	6"x 4"	300	1,200,000	5	NC
BC-20	July 2014	SC	4"x 0"	300	1,800,000	5	NC

*Belts added as refuse pile is developed.

1. Enter the appropriate Source Identification Number for each conveyor using the following codes. For example, multiple belt conveyors should be designated BC-1, BC-2, BC-3 etc. Transfer points are considered emission points, not sources, and should not be included in the *Conveying Affected Source Sheet*. Transfer Point Identification Numbers shall be assigned in the *Emission Calculation Sheet*.

BC	Belt Conveyor	BE	Bucket Elevator	DL	Drag-link Conveyor
PS	Pneumatic System	SC	Screw Conveyor	VC	Vibrating Conveyor
OT	Other				
2. Enter the date that each crusher and screen was constructed, reconstructed, or modified.
3. Enter the type of material being handled - Raw Coal (RC) Sized Coal (SC) Clean Coal (CC) Refuse (R) Other (O)
4. Enter the nominal size of the material being conveyed (e.g. clean coal - ¾" x 0). If more than one material is handled by the listed conveyor, list each material and enter the appropriate data for each material.
5. Enter the maximum material transfer rate for each conveyor in tons per hour and tons per year.
6. Enter the average percent moisture content of the conveyed material.
7. Enter the control device for the conveyor. PE - Partial Enclosure (example ¾ hoop), FE - Full Enclosure, N - None

STORAGE ACTIVITY AFFECTED SOURCE SHEET

Source Identification Number ¹	BS-1	BS-3	SP-1	SP-2	SP-3	SP-4
Date of Construction, Reconstruction, or Modification (Month/Year) ⁴	Oct 2008	Mar 2009	June 2009	May 2010	June 2009	June 2009
Type of Material Stored ²	RC	Magnetite	RC/SC	RC/SC	RC/SC	CC
Average Moisture Content (%) ³	5	0	5	5	5	5
Maximum Yearly Storage Throughput (tons) ⁴	5,256 MM	2,628	3.0 MM	3.0 MM	5,256 MM	5,256 MM
Maximum Storage Capacity (tons) ⁵	175	50	35,000	25,000	120,000	20,000
Maximum Base Area (ft ²) ⁶	N/A	N/A	120,000	60,000	128,000	70,000
Maximum Pile Height (ft) ⁷	N/A	N/A	51	20	20	20
Method of Material Load-in ⁸	TD	P	OT	TD	TD	RS
Load-in Control Device Identification Number ⁹	PE	NA	MD	MD	MD	MD
Storage Control Device Identification Number ⁹	PE	FE	N	N	N	N
Method of Material Load-out ⁸	UC	SC-1	FE	FE	FE	FE
Load-out Control Device Identification Number ⁹	PE	WET PROCESS	MD	MD	MD	MD

- 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
- Describe the type of material stored or stockpiled. (e.g. clean coal (CC), raw coal (RC), refuse (R), sized coal (SC), other (O))
- Enter the average percent moisture content of the stored material.
- Enter the maximum yearly storage throughput for each storage activity.
- Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)
- For stockpiles, enter the maximum stockpile base area.
- For stockpiles, enter the maximum stockpile height.
- 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
- Enter the appropriate Control Device Identification Number for each storage activity. Refer to Table A - *Control Device Listing and Control Device Identification Number Instructions* in the *Reference Document* for Control Device ID prefixes and numbering.

STORAGE ACTIVITY AFFECTED SOURCE SHEET Continued

Source Identification Number ¹	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10
Date of Construction, Reconstruction, or Modification (Month/Year) ⁴	April 2009	June 2009	August 2009	Oct 2010	June 2009	Oct 2010
Type of Material Stored ²	RC/CC	RC/SC	RC/CC	R	RC/CC	RC/CC
Average Moisture Content (%) ³	5	5	5	10	5	5
Maximum Yearly Storage Throughput (tons) ⁴	5.256 MM	5.256 MM	5.256 MM	5.256 MM	5.256 MM	5.256 MM
Maximum Storage Capacity (tons) ⁵	300,000	10,000	315,000	5,000	30,000	110,000
Maximum Base Area (ft ²) ⁶	252,000	10,000	272,000	10,000	88,000	100,000
Maximum Pile Height (ft) ⁷	51	20	50	20	30	50
Method of Material Load-in ⁸	OT/TD	SS	TD	SS	TD	TD
Load-in Control Device Identification Number ⁹	MD	MD	MD	MD	MD	MD
Storage Control Device Identification Number ⁹	N	N	N	N	N	N
Method of Material Load-out ⁸	UC/FE	FE	FE	FE	FE	FE
Load-out Control Device Identification Number ⁹	FE/MD	MD	MD	MD	MD	MD

- 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
- Describe the type of material stored or stockpiled. (e.g. clean coal (CC), raw coal (RC), refuse (R), sized coal (SC), other (O))
- Enter the average percent moisture content of the stored material.
- Enter the maximum yearly storage throughput for each storage activity.
- Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)
- For stockpiles, enter the maximum stockpile base area.
- For stockpiles, enter the maximum stockpile height.
- 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
- Enter the appropriate Control Device Identification Number for each storage activity. Refer to Table A - *Control Device Listing and Control Device Identification Number Instructions* in the *Reference Document* for Control Device ID prefixes and numbering.

STORAGE ACTIVITY AFFECTED SOURCE SHEET Continued

Source Identification Number ¹	SP-11	SP-12				
Date of Construction, Reconstruction, or Modification (Month/Year) ⁴	Oct 2010	June 2012				
Type of Material Stored ²	RC/CC	RC/CC				
Average Moisture Content (%) ³	5	5				
Maximum Yearly Storage Throughput (tons) ⁴	5.256 MM	350,000				
Maximum Storage Capacity (tons) ⁵	345,000	350,000				
Maximum Base Area (ft ²) ⁶	375,000	309,276				
Maximum Pile Height (ft) ⁷	50	50				
Method of Material Load-in ⁸	TD	TD				
Load-in Control Device Identification Number ⁹	MD	MD				
Storage Control Device Identification Number ⁹	N	N				
Method of Material Load-out ⁸	FE	FE				
Load-out Control Device Identification Number ⁹	MD	MD				

- 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
- Describe the type of material stored or stockpiled. (e.g. clean coal (CC), raw coal (RC), refuse (R), sized coal (SC), other (O))
- Enter the average percent moisture content of the stored material.
- Enter the maximum yearly storage throughput for each storage activity.
- Enter the maximum storage capacity for each storage activity in tons (e.g. silo capacity, maximum stockpile size, etc.)
- For stockpiles, enter the maximum stockpile base area.
- For stockpiles, enter the maximum stockpile height.
- 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
- Enter the appropriate Control Device Identification Number for each storage activity. Refer to Table A - *Control Device Listing and Control Device Identification Number Instructions* in the *Reference Document* for Control Device ID prefixes and numbering.

STORAGE TANK DATA SHEET

Source ID # ¹	Status ²	Content ³	Volume ⁴	Dia ⁵	Throughput ⁶	Orientation ⁷	Liquid Height ⁸
T-1	EXIST	Diesel	2,000		39,240	HORZ	
T-2	EXIST	Diesel	8,000		81,500	HORZ	
T-3	EXIST	Diesel	8,000		82,310	HORZ	
T-4	EXIST	Diesel	5,000		56,460	HORZ	
T-5	EXIST	Diesel	1,000		29,150	HORZ	
T-6	EXIST	Diesel	500		12,400	HORZ	
T-7	EXIST	Gasoline	2,000		23,500	HORZ	

1. Enter the appropriate Source Identification Numbers (Source ID #) for each storage tank located at the facility. Tanks should be designated T01, T02, T03, etc.
2. Enter storage tank Status using the following:

EXIST	Existing Equipment	NEW	Installation of New Equipment
REM	Equipment Removed		
3. Enter storage tank content such as condensate, pipeline liquids, glycol (DEG or TEG), lube oil, etc.
4. Enter storage tank volume in gallons.
5. Enter storage tank diameter in feet.
6. Enter storage tank throughput in gallons per year.
7. Enter storage tank orientation using the following:

VERT	Vertical Tank	HORZ	Horizontal Tank
------	---------------	------	-----------------
8. Enter storage tank average liquid height in feet.

<u>EMISSION SUMMARY SHEET FOR CRITERIA POLLUTANTS</u>										
						Registration Number <small>(Agency Use)</small> G10-D				
	Potential Emissions (lbs/hr)					Potential Emissions (tons/yr)				
Source ID No.	NO_x	CO	VOC	SO₂	PM₁₀	NO_x	CO	VOC	SO₂	PM₁₀
Total										

EMISSION SUMMARY SHEET FOR HAZARDOUS/TOXIC POLLUTANTS												
							Registration Number <small>(Agency Use)</small> G10-D					
	Potential Emissions (lbs/hr)						Potential Emissions (tons/yr)					
Source ID No.	Benzene	Ethyl-benzene	Toluene	Xylenes	n-Hexane	Formaldehyde	Benzene	Ethyl-benzene	Toluene	Xylenes	n-Hexane	Formaldehyde
Total												

Attachment H

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Attachment I

Emissions Calculations

EMISSIONS SUMMARY

Name of applicant: _____ 0
 Name of plant: _____ 0

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>	0.00	0.00	0.00	0.00
<i>Unpaved Haulroad Emissions</i>	0.00	0.00	0.00	0.00
<i>Paved Haulroad Emissions</i>	0.00	0.00	0.00	0.00
Fugitive Emissions Total	0.00	0.00	0.00	0.00

POINT SOURCE EMISSIONS				
<i>Equipment Emissions</i>	0.00	0.00	0.00	0.00
<i>Transfer Point Emissions</i>	4.83	2.58	2.80	0.43
Point Source Emissions Total*	4.83	2.58	2.80	0.43

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

Facility Emissions Total	4.83	2.58	2.80	0.43
---------------------------------	-------------	-------------	-------------	-------------

***Facility Potential to Emit (PTE) (Baseline Emissions) = 0.43**
 (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>	0.00	0.00	0.00	0.00
<i>Unpaved Haulroad Emissions</i>	0.00	0.00	0.00	0.00
<i>Paved Haulroad Emissions</i>	0.00	0.00	0.00	0.00
Fugitive Emissions Total	0.00	0.00	0.00	0.00

POINT SOURCE EMISSIONS				
<i>Equipment Emissions</i>	0.00	0.00	0.00	0.00
<i>Transfer Point Emissions</i>	2.28	1.22	1.32	0.20
Point Source Emissions Total*	2.28	1.22	1.32	0.20

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

Facility Emissions Total	2.28	1.22	1.32	0.20
---------------------------------	-------------	-------------	-------------	-------------

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 (continued)

Transfer Point ID No.	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
TOTALS	4.830	2.583	2.801	0.426	2.284	1.222	1.325	0.202

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= $\$188 \cdot (0.0032) \cdot (((\text{Inputs!}\$72)/5)^{1.3}) / (((\text{Inputs!}G78 + 0.00000001)/2)^{1.4})$
=lb/ton

For PM-10 E= $\$88 \cdot (0.0032) \cdot (((\text{Inputs!}\$72)/5)^{1.3}) / (((\text{Inputs!}G78 + 0.00000001)/2)^{1.4})$
=lb/ton

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

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

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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 $E = \left(\frac{P}{365}\right) \cdot \left(\frac{W}{12}\right)^a \cdot \left(\frac{H}{3}\right)^b \cdot (365 - P)$

For PM-10 $E = \left(\frac{P}{365}\right) \cdot \left(\frac{W}{12}\right)^a \cdot \left(\frac{H}{3}\right)^b \cdot (365 - P)$

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Source:

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

Emission Estimate For Paved Haulroads

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

Where:

		PM	PM-10
k =	particle size multiplier	0.082	0.016
sL =	road surface silt loading, (g/ft ²)	70	
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= (\$J\$34*(((I\$35)/2)^0.65)*(((Inputs!G190)/3)^1.5)-(\$I\$38))*(1-((Inputs!\$I\$18-

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

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)

TP15	Wet Circuit to BC-5	5	-600	-5,256,000	FE	80
TP16	Wet Circuit to BC-5	5	-600	-5,256,000	FE	80
TP17	Wet Circuit to BC-5	5	-600	-5,256,000	FE	80
TP18	Reserved					
TP19	Wet Circuit to BC-5	5	-600	-5,256,000	FE	80
TP22	Removed	5	-600	-5,256,000	MD	0
TP32	Removed	5	-950	-3,000,000	FE	80
TP34	Truck to SP-2	5	-310		MD	0
TP35	Removed	-	-950	-3,000,000	MD	0
TP36	Removed	-	-950	-3,000,000	PE	50
TP43	Trucks to/from SP-5 and SP-7	5	-600	-5,256,000	MD	0
TP44	Removed	-	-	-	-	-
TP15	Wet Circuit to BC-5	5	600	5,256,000	FE	80
TP16	Wet Circuit to BC-5					
TP17	Wet Circuit to BC-5					
TP18	Reserved					
TP19	Wet Circuit to BC-5					
TP22	Removed	-	-	-	-	-
TP32	Removed	-	-	-	-	-
TP34	Truck to Remote Stockpiles	5	600	5,256,000	MD	0
TP35	Removed	-	-	-	-	-
TP36	Removed	-	-	-	-	-
TP43	SP-1 or SP-2 to Truck	5	950	3,000,000	MD	0
TP44	Removed	-	-	-	-	-
TP47	Coal to HM-1	5	950	3000000	PE	50
TP48	HM-1 to Stockpile/Refuse	5	950	3000000	PE	50
TP49	Stockpile to SC-1	5	300	3000000	PE	50
TP50	SC-1 to BC-19	5	300	1800000	NC	0
TP51	SC-1 to BC-20	5	300	1200000	NC	0
TP52	BC-19 to SP-5	5	300	1800000	NC	0
TP53	BC-20 to SP-5	5	300	1200000	NC	0

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 %
SP-1	Raw Coal Stockpile	3	120,000	N	0
SP-2	Raw Coal Stockpile	3	60,000	N	0
SP-3	Raw/Clean Coal Stockpile	3	128,000	N	0
SP-4	Clean Coal Stockpile	3	70,000	N	0
SP-5	Raw/Clean Coal Stockpile	3	252,000	N	0
SP-6	Raw/Clean Coal Stockpile	3	10,000	N	0
SP-7	Clean/Raw Stockpile	3	272,000	N	0
SP-8	Refuse Stockpile	10	10,000	N	0
SP-9	Clean/Raw Stockpile	3	88,000	N	0
SP-10	Clean/Raw Stockpile	3	100,000	N	0
SP-11	Clean/Raw Stockpile	3	375,000	N	0
SP-12	Clean/Raw Stockpile	3	309,276	N	0

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	Endloader/Dozer	4	44	6	1	1	8,760	HR-WS1	70
2	Refuse Truck	6	35	5	1.91	11	45,310	HR-WS1	70
3	Raw Coal Truck	16	25	15	1.42	46	262,800	HR-WS1	70
4	Clean Coal Truck	16	25	15	0.33	20	170,820	HR-WS1	70
5	Ash Truck	16	25	15	2.14	12	46,000	HR-WS1	70

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

sL =	road surface silt loading, (g/ft^2)	70
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							
2							
3							
4							
5							
6							
7							
8							

EMISSIONS SUMMARY

Name of applicant: _____ 0
 Name of plant: _____ 0

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>	6.98	30.56	6.98	30.56
<i>Unpaved Haulroad Emissions</i>	1,381.09	3,583.19	414.33	1,074.96
<i>Paved Haulroad Emissions</i>	0.00	0.00	0.00	0.00
Fugitive Emissions Total	1,388.06	3,613.75	421.30	1,105.51

POINT SOURCE EMISSIONS				
<i>Equipment Emissions</i>	71.00	262.60	23.20	97.52
<i>Transfer Point Emissions</i>	26.18	81.39	17.14	51.45
Point Source Emissions Total*	97.18	343.99	40.34	148.97

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

Facility Emissions Total	1,485.25	3,957.73	461.65	1,254.48
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***Facility Potential to Emit (PTE) (Baseline Emissions) = 148.97**
 (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>	3.28	14.36	3.28	14.36
<i>Unpaved Haulroad Emissions</i>	407.64	1,057.62	122.29	317.29
<i>Paved Haulroad Emissions</i>	0.00	0.00	0.00	0.00
Fugitive Emissions Total	410.92	1,071.98	125.57	331.65

POINT SOURCE EMISSIONS				
<i>Equipment Emissions</i>	33.37	123.42	10.90	45.83
<i>Transfer Point Emissions</i>	12.38	38.49	8.11	24.33
Point Source Emissions Total*	45.75	161.92	19.01	70.17

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

Facility Emissions Total	456.68	1,233.89	144.58	401.81
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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
SZ-1	12.000	52.600	2.400	10.520	5.640	24.722	1.128	4.944
FB-1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
FB-2	19.000	30.000	3.800	6.000	8.930	14.100	1.786	2.820
HM-1	10.000	30.000	2.000	6.000	4.700	14.100	0.940	2.820
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	41.000	112.600	8.200	22.520	19.270	52.922	3.854	10.584

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							

1c. Screening

Screen ID Number	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
SC-1	30.000	150.000	15.000	75.000	14.100	70.500	7.050	35.250
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	30.000	150.000	15.000	75.000	14.100	70.500	7.050	35.250

Crushing and Screening	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
TOTAL	71.000	262.600	23.200	97.520	33.370	123.422	10.904	45.834

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
TP1	0.966	2.552	0.193	0.510	0.457	1.207	0.091	0.241
TP2	0.966	2.552	0.966	2.552	0.457	1.207	0.457	1.207
TP3	0.610	2.672	0.610	2.672	0.289	1.264	0.289	1.264
TP4	0.610	2.672	0.305	1.336	0.289	1.264	0.144	0.632
TP5	0.610	2.672	0.305	1.336	0.289	1.264	0.144	0.632
TP6	0.610	2.672	0.305	1.336	0.289	1.264	0.144	0.632
TP7	0.610	2.672	0.305	1.336	0.289	1.264	0.144	0.632
TP8	0.610	2.672	0.305	1.336	0.289	1.264	0.144	0.632
TP9	0.610	2.672	0.305	1.336	0.289	1.264	0.144	0.632
TP10	0.610	2.672	0.610	2.672	0.289	1.264	0.289	1.264
TP11	0.610	2.672	0.610	2.672	0.289	1.264	0.289	1.264
TP12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP13	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP15	0.610	2.672	0.122	0.534	0.289	1.264	0.058	0.253
TP16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP18	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP20	0.610	2.672	0.305	1.336	0.289	1.264	0.144	0.632
TP21	0.610	2.672	0.610	2.672	0.289	1.264	0.289	1.264
TP22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP23	0.610	2.672	0.122	0.534	0.289	1.264	0.058	0.253
TP24	0.610	2.672	0.305	1.336	0.289	1.264	0.144	0.632
TP25	0.610	2.672	0.305	1.336	0.289	1.264	0.144	0.632
TP26	0.610	2.672	0.610	2.672	0.289	1.264	0.289	1.264
TP27	0.610	2.672	0.305	1.336	0.289	1.264	0.144	0.632
TP28	0.610	2.672	0.305	1.336	0.289	1.264	0.144	0.632
TP29	0.966	2.552	0.193	0.510	0.457	1.207	0.091	0.241
TP30	0.966	2.552	0.483	1.276	0.457	1.207	0.228	0.604
TP31	0.966	0.000	0.966	0.000	0.457	0.000	0.457	0.000
TP32	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP33	0.966	1.525	0.193	0.305	0.457	0.721	0.091	0.144
TP34	0.610	2.672	0.610	2.672	0.289	1.264	0.289	1.264
TP35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP36	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP37	0.966	1.525	0.966	1.525	0.457	0.721	0.457	0.721
TP38	0.966	1.525	0.483	0.763	0.457	0.721	0.228	0.361
TP39	0.610	2.672	0.305	1.336	0.289	1.264	0.144	0.632
TP40	0.610	1.336	0.610	1.336	0.289	0.632	0.289	0.632
TP41	0.610	1.336	0.610	1.336	0.289	0.632	0.289	0.632
TP42	0.610	1.336	0.610	1.336	0.289	0.632	0.289	0.632
TP43	0.966	1.525	0.966	1.525	0.457	0.721	0.457	0.721
TP44	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP46	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TP47	0.966	1.525	0.483	0.763	0.457	0.721	0.228	0.361
TP48	0.966	1.525	0.483	0.763	0.457	0.721	0.228	0.361
TP49	0.305	1.525	0.153	0.763	0.144	0.721	0.072	0.361
TP50	0.305	0.915	0.305	0.915	0.144	0.433	0.144	0.433
TP51	0.305	0.610	0.305	0.610	0.144	0.289	0.144	0.289
TP52	0.305	0.915	0.305	0.915	0.144	0.433	0.144	0.433

2. Emissions From TRANSFER POINTS (continued)

Transfer Point ID No.	PM				PM-10			
	Uncontrolled		Controlled		Uncontrolled		Controlled	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
TP53	0.305	0.610	0.305	0.610	0.144	0.289	0.144	0.289
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	26.182	81.386	17.143	51.448	12.384	38.493	8.108	24.333

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= $(0.0032) \cdot ((U/5)^{1.3}) / ((M/2)^{1.4})$
=lb/ton

For PM-10 E= $(0.0032) \cdot ((U/5)^{1.3}) / ((M/2)^{1.4})$
=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
SP-1	0.461	2.017	0.461	2.017	0.216	0.948	0.216	0.948
SP-2	0.230	1.009	0.230	1.009	0.108	0.474	0.108	0.474
SP-3	0.491	2.152	0.491	2.152	0.231	1.011	0.231	1.011
SP-4	0.269	1.177	0.269	1.177	0.126	0.553	0.126	0.553
SP-5	0.967	4.236	0.967	4.236	0.455	1.991	0.455	1.991
SP-6	0.038	0.168	0.038	0.168	0.018	0.079	0.018	0.079
SP-7	1.044	4.573	1.044	4.573	0.491	2.149	0.491	2.149
SP-8	0.128	0.560	0.128	0.560	0.060	0.263	0.060	0.263
SP-9	0.338	1.479	0.338	1.479	0.159	0.695	0.159	0.695
SP-10	0.384	1.681	0.384	1.681	0.180	0.790	0.180	0.790
SP-11	1.439	6.304	1.439	6.304	0.676	2.963	0.676	2.963
SP-12	1.187	5.199	1.187	5.199	0.558	2.444	0.558	2.444
TOTALS	6.976	30.555	6.976	30.555	3.279	14.361	3.279	14.361

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

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	14.44	63.25	4.33	18.98	4.26	18.67	1.28	5.60
2	273.73	563.76	82.12	169.13	80.79	166.40	24.24	49.92
3	731.45	2089.40	219.43	626.82	215.90	616.71	64.77	185.01
4	73.91	315.62	22.17	94.69	21.81	93.16	6.54	27.95
5	287.56	551.16	86.27	165.35	84.88	162.68	25.46	48.80
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	1381.09	3583.19	414.33	1074.96	407.64	1057.62	122.29	317.29

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 $E = \left(\frac{I}{35}\right) \cdot \left(\frac{Inputs!S163}{12}\right)^{I36} \cdot \left(\frac{Inputs!H171}{3}\right)^{I37} \cdot (365 - I$

For PM-10 $E = \left(\frac{J}{35}\right) \cdot \left(\frac{Inputs!S163}{12}\right)^{J36} \cdot \left(\frac{Inputs!H171}{3}\right)^{J37} \cdot (365 - J$

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Source:

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

Emission Estimate For Paved Haulroads

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

Where:

		PM	PM-10
k =	particle size multiplier	0.082	0.016
sL =	road surface silt loading, (g/ft ²)	70	
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= (\$J\$34*(((I\$35)/2)^0.65)*(((Inputs!G190)/3)^1.5)-(\$I\$38))*(1-((Inputs!\$I\$18-

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

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)

Attachment J

Legal Ad

**Attachment J – Legal Advertisement
AIR QUALITY PERMIT NOTICE
Notice of Application**

Notice is given that Coresco, LLC, has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Modification Permit for a coal processing facility located at 624 Crafts Run Road in Madsville, in Monongalia County, West Virginia. The latitude and longitude coordinates are: 39.70399° latitude, -79.964506° longitude.

The applicant estimates the increased potential to discharge the following Regulated Air Pollutants will be:

PM	0.43 TPY
PM ₁₀	0.20 TPY
PM _{2.5}	0.02 TPY

The increase in emissions is due to an increase in throughput with no equipment changes. 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 1227, during normal business hours.

Dated this the 14th day of November, 2016.

By: Coresco, LLC
Brian Osborn
Senior Vice President of Operations
308 Dents Run Road
Morgantown, WV, 26501

Attachment K

Electronic Submittal

Attachment K – Electronic Submittal

Attachment L

Application Fee