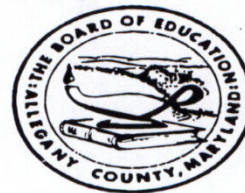


# Board of Education of Allegany County

Facilities Department  
 Post Office Box 1724  
 211 Market Street  
 Cumberland, Maryland 21502-0439  
 Phone: 301-759-2830 Fax: 301-722-4305



**Facilities**

TO: Maryland Department of the Environment  
 Waste Management Administration  
 Solid Waste Program  
 1800 Washington Boulevard, Suite 605  
 Baltimore, MD 21230-1719

## LETTER OF TRANSMITTAL

Date: February 21, 2013

Re: Coal Combustion Byproducts Annual Generator  
 Tonnage Report

WE ARE SENDING YOU THE ATTACHED:		
COPIES	DATE	DESCRIPTION
1	2/21/2013	Coal Combustion Byproducts Annual Generator Tonnage Report – Allegany High School
1	2/21/2013	Coal Combustion Byproducts Annual Generator Tonnage Report – Braddock Middle School
1	2/21/2013	Coal Combustion Byproducts Annual Generator Tonnage Report – Fort Hill High School
1	2/21/2013	Coal Combustion Byproducts Annual Generator Tonnage Report – Washington Middle School

THESE ARE TRANSMITTED as checked below:

- For approval     
  Approved as submitted     
  For your use     
  As requested  
 For review/comment     
  For payment     
  Faxed     
  FYI

REMARKS:

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**RECEIVED**  
 MAR 4 2013  
 SOLID WASTE  
 OPERATIONS DIVISION

SIGNED: 

# MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Suite 605 • Baltimore, Maryland 21230-1719

410-537-3315 • 800-633-6101 x3315 • [www.mde.state.md.us](http://www.mde.state.md.us)

Land Management Administration • Solid Waste Program

## **Coal Combustion Byproducts (CCBs) Annual Generator Tonnage Report Instructions for Calendar Year 2012**

The following is general information relating to the requirement for reporting quantities of coal combustion byproducts (CCBs) that were managed in the State of Maryland during calendar year 2012. Please answer the questions on the form provided, attaching additional information and any requested supplemental information to the back of the form. *Note that the form for this year requires both volume and weight of the CCBs produced. If you know one of these parameters but not the others, for example, you have the tonnage produced but not the volume, you may calculate the other parameter; however, please provide the calculations and assumptions that you used in your estimate.* Questions can be directed to the Solid Waste Program at (410) 537-3315 or via email at [edexter@mde.state.md.us](mailto:edexter@mde.state.md.us).

**I. Background.** This requirement that generators of CCBs submit an annual report was instituted in the Code of Maryland Regulations COMAR 26.04.10.08, that was promulgated effective December 1, 2008. The regulation requires that any non-residential generator of CCBs submit a report to the Department by March 1 of each year describing the manner in which CCBs generated within the State were managed during the preceding calendar year. Additional information and specific instructions follow. For more detailed information, please refer to COMAR 26.04.10.08.

### **II. General Information and Applicability.**

**A. Definitions.** CCBs are defined in COMAR 26.04.10.02B as:

*"(3) Coal Combustion Byproducts. (a) "Coal combustion byproducts" means the residue generated by or resulting from the burning of coal.  
(b) "Coal combustion byproducts" includes fly ash, bottom ash, boiler slag, pozzolan, and other solid residuals removed by air pollution control devices from the flue gas and combustion chambers of coal burning furnaces and boilers, including flue gas desulfurization sludge and other solid residuals recovered from flue gas by wet or dry methods."*

A generator of CCBs is defined in COMAR 26.04.10.02B as:

*"(9) Generator.  
(a) "Generator" means a person whose operations, activities, processes, or actions create coal combustion byproducts.  
(b) "Generator" does not include a person who only generates coal combustion byproducts by burning coal at a private residence."*

RECEIVED

MAR 4 2013

SOLID WASTE  
OPERATIONS DIVISION

Facility Name: Fort Hill High School

## CCB Tonnage Report – 2012

**B. Applicability.** If you or your company meets the definition of a generator of CCBs as defined above, you must provide the information as required below. For the purposes of this report, “you” shall hereinafter refer to the generator defined above. Please note that COMAR 26.04.10.08 requires generators of CCBs to submit an annual report to the Department concerning the disposition of the CCBs that they generated the previous year. **THIS INCLUDES CCBS THAT WERE NOT SEPARATELY COLLECTED BUT WERE PRODUCED BY THE BURNING OF COAL AND WERE DIRECTLY CONTRIBUTED TO A PRODUCT, such as cement.** Where the amount cannot be directly measured, estimates based on the amount of coal burned can be used. The method of determining the volume of CCBs produced must be described.

**III. Required Information.** The following information must be provided to the Department by March 1, 2013:

A. Contact information:

Facility Name: Fort Hill High School

Name of Permit Holder: N/A

Facility Address: 500 Greenway Avenue  
Street

Facility Address: Cumberland MD 21502  
City State Zip

County: Allegany

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 301-777-2570 Facility Fax No.: 301-777-2572

Contact Name: William J. Marley III, P.E.

Contact Title: Supervisor of Maintenance and Construction

Contact Address: 211 Market Street  
Street

Contact Address: Cumberland MD 21502  
City State Zip

Contact Email: william.marleyiii@acps.k12.md.us

Contact Telephone No.: 301-759-2830 Contact Fax No.: 301-722-4305

*For questions on how to complete this form, please contact the Solid Waste Program at 410-537-3315*

B. A description of the process that generates the CCBs, including the type of coal or other raw material that generates the CCBs. If the space provided is insufficient, please attach additional pages:

Two (2) fire-tube, stoker coal boilers, firing bituminous coal, are used to supply steam for building heat.

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C. The volume and weight of CCBs generated during calendar year 2012, including an identification of the different types of CCBs generated and the volume of each type generated. If the space provided is insufficient, please attach additional pages in a similar format. If converting from volume to weight or weight to volume, please provide your calculations and assumptions.

**Table I: Volume and Weight of CCBs Generated for Calendar Year 2012:** Please note the change to this table from previous years, to include both the volume and weight of the types of CCBs your facility produces.

<b><u>Volume and Weight of CCBs Generated for Calendar Year 2012</u></b>			
Bottom Ash			
Type of CCB	Type of CCB	Type of CCB	Type of CCB
28.71			
Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards
17.49			
Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons

Additional notes:

The volume and weight of CCBs generated by this facility were calculated using the weight of coal purchased and the ash value reported from the corresponding coal analysis reports.

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D. Descriptions of any modeling or risk assessments, or both, conducted relating to the CCBs or their use that were performed by you or your company during the reporting year. Please attach this information to the report.

E. Copies of all laboratory reports of all chemical characterizations of the CCBs. Please attach this information to the report.

F. A description of how you disposed of or used your CCBs in calendar year 2012, identifying:

(a) The types and volume of CCBs disposed of or used (if different than described in Paragraph C above) including any CCBs stored during the previous calendar year, the location of disposal, mine reclamation and use sites, and the type and volume of CCBs disposed of or used at each site:

Bottom ash: 17.49 tons/28.71 yd<sup>3</sup>; Pine Mountain Coal Company, Frostburg, Maryland.

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and (b) The different uses by type and volume of CCBs:

Bottom ash: 17.49 tons/28.71 yd<sup>3</sup>; road traction.

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If the space provided is insufficient, please attach additional pages in a similar format.

G. A description of how you intend to dispose of or use CCBs in the next 5 years, identifying:

(a) The types and volume of CCBs intended to be disposed of or used, the location of intended disposal, mine reclamation and use sites, and the type and volume of CCBs intended to be disposed of or used at each site:

Based on the past nine years of data, it is estimated that this facility will continue to generate approximately 52.06 tons/85.49 yd<sup>3</sup> of CCBs each year that the coal fired boilers are in operation. The CCBs generated by this facility are classified as bottom ash.

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and (b) The different intended uses by type and volume of CCBs.

Bottom Ash – Approximately 52.06 tons/85.49 yd<sup>3</sup> per year – Authorized Disposal Site.

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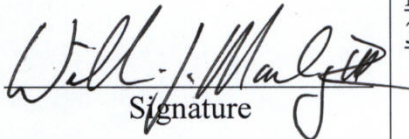
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If the space provided is insufficient, please attach additional pages in a similar format.

**IV. Signature and Certification.** An authorized official of the generator must sign the annual report, and certify as to the accuracy and completeness of the information contained in the annual report:

This is to certify that, to the best of my knowledge, the information contained in this report and any attached documents are true, accurate, and complete.

 Signature	<u>William J. Marley III, P.E. – Supervisor of</u> <u>Maintenance &amp; Construction</u> <u>301-759-2830</u>	<u>2/21/13</u> Date
	Name, Title, & Telephone No. (Print or Type)  <u>william.marleyiii@acps.k12.md.us</u> Your Email Address	

**V: Attachments (please list):**

Coal Analysis Report – Penn Keystone Coal Company

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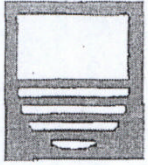
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# GEOCHEMICAL TESTING

Environmental and Energy Analysis  
COAL ANALYSIS REPORT

2005 N. Center Ave.  
Somerset, PA 15501

814/443-1671  
814/445-6666  
FAX: 814/445-6729

Client: GAULEY MINING COMPANY INC

Sampled by: Bob/Joe

Sampling Date: 05/09/2012

Analyzed on: 05/15/2012

Description: EC Regular Nut (B)

LAB NO. 12-149194

	As Received	Dry	Dry Ash-Free
Total Moisture...D2961-02..	1.83		
Ash.....D3174-02..	10.82	11.02	
Volatile Matter..D3175-02..	18.49	18.84	21.17
Fixed Carbon ..... Calc..	68.86	70.14	78.83
	-----	-----	-----
	100.00	100.00	100.00
Sulfur.....D4239-02..	0.62	0.63	
BTU/LB.....D5865-03..	13561	13814	15524
Free Swelling Index D720-91	5.0		
Lbs Sulfur/Million Btu	0.46		
Lbs SO2/Million Btu	0.92		

Robert L. Stull  
Director of Coal Services





SCREEN DATA

Size Fraction	wt%	cum wt%
+2"	5.40	5.40
2" X 1/4"	84.80	90.20
1/4" X 0"	9.80	100.00

PENN KEYSTONE COAL CO. LLC  
 RD 1 Box 557 Claysburg, PA 16625  
 814-244-3140  
 Fax: ~~302-340-0751~~  
 814-689-7010

MATERIAL SAFETY DATA SHEET

**BITUMINOUS  
 COAL**

Content Last Revised 1/94; 10/12/00;  
 07/26/02; 06/05


4 pages.

SECTION 1 - MATERIAL IDENTIFICATION		24 HOUR EMERGENCY INFORMATION	
PRODUCT / CHEMICAL NAME:	BITUMINOUS COAL	Sprague:	603-431-1000
		Chemtrec:	800-424-9300
PRODUCT / CHEMICAL SYNONYMS:	WASHED COAL, CLEAN COAL, SOFT COAL	HMIS / NFPA HAZARD RATING	<p>← FIRE            REACTIVITY            ← OTHER            HEALTH</p>
CHEMICAL FAMILY / FORMULA:	ALIPHATIC AND AROMATIC HYDROCARBONS / VARIABLE	4=EXTREME 3=SERIOUS 2=MODERATE 1=SLIGHT 0=MINIMAL	
MATERIAL USE OR OCCURRENCE:	-		

SECTION 2 - INGREDIENTS & RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS			
COMPOSITION	% WEIGHT AS RECEIVED	OSHA PEL	ACGIH TLV
MOISTURE	(Typical) 1.0 - 10.0	None established.	None established.
ASH	4.0-20.0	15 mg/M <sup>3</sup> as nuisance dust less than 1% quartz	10 mg/M <sup>3</sup> as nuisance dust less than 1% quartz
TOTAL SULFUR	0.5-2.2	5.0 ppm as SO <sub>2</sub>	2.00 ppm as SO <sub>2</sub>
FIXED CARBON	50.0-72.0	None established	None established
VOLATILE MATTER* INCLUDING ELEMENTAL AND COMPOUNDS OF:	17.0-37.0		
HYDROGEN	4.8-5.3	None established	None established
NITROGEN	1.2-1.6	None established	None established
CHLORINE	.08-.19	1.0 ppm	1.0 ppm
COAL DUST		2.4 mg/ M <sup>3</sup> respirable fraction, < 5% SiO <sub>2</sub> 10 mg/ M <sup>3</sup> > 5% SiO <sub>2</sub> % SiO <sub>2-2</sub>	2 mg/M <sup>3</sup> respirable fraction, < 5% SiO <sub>2</sub> 10 mg/ M <sup>3</sup> > 5% SiO <sub>2</sub> % SiO <sub>2-2</sub>

SECTION 3 - PHYSICAL DATA			
IGNITION TEMPERATURE:	260°-365°F	% VOLATILITY BY VOLUME:	Negligible
MELTING POINT:	750° F	VAPOR DENSITY (AIR = 1):	N/A
AVERAGE SPECIFIC GRAVITY (H <sub>2</sub> O = 1):	1.43	SOLUBILITY IN WATER:	Non-soluble
HETEROGENOUS - CARBONACEOUS			
APPEARANCE & ODOR: Irregular, rectangular-shaped chunks or particles, dense, grayish-black to black color with slight, minimal dank odor.			

MATERIAL SAFETY DATA SHEET

PENN KEYSTONE COAL CO. LLC 

RD 1 Box 557 Claysburg, PA 16625

814-244-3140

Fax: ~~814-244-3140~~

814-689-2000

**BITUMINOUS  
COAL**

Content Last Revised 1/94: 10/12/00: 07/26/02;  
06/05 4 pages

**SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT: When exposed to flame of temperatures in excess of 260° F.

EXTINGUISHING MEDIUM: Foam, carbon dioxide, dry chemical, halon, and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Use washdown and spread out method.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Susceptible to spontaneous combustion. Highly combustible in a free-flowing form when in dust or powder form.

**SECTION 5 - HEALTH DATA**

TOXICOLOGICAL TEST DATA: Coal may liberate various polycyclic aromatic hydrocarbons (PAH's) upon thermal decomposition. There is no clear evidence that coal is carcinogenic to man or experimental animals because of their polycyclic aromatic hydrocarbon content. However, there is evidence that these PAH's may play an active role in the generation of lung cancer seen in cigarette smokers or tar-roofing workers.

Coal may release small quantities of methane gas over a period of time. Progression of tuberculosis is greatly increased in pneumoconiosis but susceptibility is apparently not increased.

ACUTE HEALTH EFFECTS		CHRONIC HEALTH EFFECTS
INHALATION	The principal health hazard associated with coal occurs during its mining and transport. Coal workers' pneumoconiosis (CWP) can occur in miners after as little as 15 years of excessive inhalation of respirable coalmine dust. Respirable quartz particles and free silica may be co-implicated. Coal dust is deposited in the lungs where its site of action is the lung parenchyma, lymph nodes and hila. The severity of the disease is directly related to the amount of coal dust in the lungs. In the simple stages, the disease is detectable by x-ray as round, irregular "macules" of 1-5 mm. This stage typically does not change lung function or shorten life.	The chronic stage of CWP, however, involves massive pulmonary fibrosis that does impair pulmonary function and shorten life.  Chronic Bronchitis (lung inflammation, coughing attacks, difficult breathing, etc.) and emphysema can result from excessive coal dust inhalation.  Rheumatoid arthritis can be exacerbated by pneumonias leading to rapidly developing lung damage (Caplan's Syndrome).
INGESTION	May cause irritation.	No data available
SKIN CONTACT	May cause irritation.	No data available.
EYE CONTACT	Irritation of the eye.	No data available

FIRST AID



PROCEDURES

First aid procedures generally don't apply to this product. Maintain exposure to coal dust according to applicable regulatory standards.

PENN KEYSTONE COAL CO. LLC  
 RD 1 Box 557 Claysburg, PA 16625  
 814-244-3140  
 Fax: ~~300-813-1184~~  
 814-689-7010

MATERIAL SAFETY DATA SHEET

**BITUMINOUS  
 COAL**

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**SECTION 6 - REACTIVITY DATA**

STABILITY:	Stable if properly stored to inhibit oxidation.
HAZARDOUS POLYMERIZATION:	Hazardous polymerization has not been known to occur under normal temperatures and pressures. However, coal dust may react slowly with oxygen at room temperature. Heat accelerates the process, which could lead to spontaneous ignition in piles of coal dust.
CONDITIONS TO AVOID:	<ol style="list-style-type: none"> <li>1. Allowing coal to stand in water.</li> <li>2. Storing coal on loose or porous ground.</li> <li>3. Piling coal around upright steel or wooden posts, crane supports, underground drains, steam or hot water lines or areas where there is refuse such as wood, straw, growing vegetation or other organic material.</li> <li>4. Storage in closed hampers, bins, receptacles, etc. without positive ventilation.</li> </ol>
INCOMPATIBLES:	
TYPICAL DECOMPOSITION PRODUCTS:	May liberate hydrogen, methane, carbon monoxide, oxides of sulfur and hydrogen, coal tar pitch volatiles upon thermal decomposition.

**SECTION 7 - SPECIAL PROTECTION**

RESPIRATORY PROTECTION:	Use with adequate ventilation.
VENTILATION	LOCAL EXHAUST: MSHA/NIOSH approved dust respirator. Appropriate respirator depends upon type and magnitude of exposure.
	MECHANICAL (General): Recommended for use in enclosed or semi-enclosed work areas.
EYE PROTECTION:	Splash goggles or shields with safety glasses
PROTECTIVE GLOVES:	Neoprene, PVC
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:	Employee must wear appropriate impervious clothing and equipment to prevent repeated or prolonged skin contact with this substance.

**SECTION 8 - SPECIAL PRECAUTIONS**

PRECAUTIONS FOR SAFE HANDLING & STORAGE:	Do not permit accumulation of dust or spillage. See also conditions to avoid, above.
SPILL AND LEAK PROCEDURES:	Cleanup by excavation, vacuum collection or washdown
WASTE DISPOSAL METHOD:	<ol style="list-style-type: none"> <li>1. Incinerate in combustion device or system.</li> <li>2. Dispose in approved, regulated landfill.</li> </ol>

**SECTION 9 - DOT HAZARDOUS MATERIAL INFORMATION**

PROPER SHIPPING NAME: BITUMINOUS COAL	REQUIRED PLACARDING: NONE
HAZARD CLASS: Non-Hazardous	PACKING GROUP (P.G.): III N.A./U.N. NUMBER: NONE

PENN KEYSTONE COAL CO. LLC  
 RD 1 Box 557 Claysburg, PA 16625  
 814-244-3140

Fax: ~~814-244-3140~~  
 814-288-7010

MATERIAL SAFETY DATA SHEET

**BITUMINOUS  
 COAL**

Content Last Revised 1/94; 10/12/00; 07/26/02;  
 06/05 4 pages

**SECTION 10 - EPA SARA TITLE III INFORMATION**

SECTION 311/312	ACUTE: N/A	CHRONIC: N/A	
HAZARD CLASSIFICATION: Non-Hazardous	FIRE: N/A	PRESSURE: N/A	REACTIVE: N/A

**SECTION 11 - REMARKS**

This material contains fused polycyclic hydrocarbons. The OSHA PEL and ACGIH TLV for coal tar

Coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatilize from the  
 of coal, petroleum, wood, and other organic matter." The OSHA PEL and ACGIH TLV for coal tar

This material contains fused polycyclic hydrocarbons. The OSHA PEL and ACGIH TLV for coal tar  
 distillation residues

**SECTION 12 - ADDITIONAL REGULATORY DATA**

REPORTABLE COMPONENTS: FEDERAL EPA	%	SARA RQ	CERCLA RQ	RCRA NO.
BITUMINOUS COAL	100	----	----	----

NOTE: OSHA Regulations 29 CFR 1910.1200 (Hazard Communication) do not consider coal as a "hazardous material" and a Material Safety Data Sheet (MSDS) is not required. The information contained herein is based on data available at this time and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Since information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, no responsibility is assumed for the results of its use. The person receiving this information shall make his own determination of the suitability of the material for his particular purpose.