

January 23, 2017

Mr. Ed Dexter Solid Waste Program Maryland Department of the Environment Waste Management Administration 1800 Washington Blvd., STE 605 Baltimore, MD 21230-1719 RECEIVED
JAN 25 2017

LAND MANAGEMENT ADMIN. SOLID WASTE PROGRAM

Dear Mr. Dexter:

Enclosed please find one (1) copy of our 2016 Annual Generator Tonnage Report to meet the requirements of COMAR 26.04.10.08. The report covers the period from January 1, 2016 through December 31, 2016.

If you need additional information or clarification, please call.

Sincerely,

Aaron M. Miller

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MARYLAND DEPARTMENT OF THE ENVIRONMENT

Land Management Administration • Solid Waste Program
1800 Washington Boulevard • Suite 605 • Baltimore Maryland 21230-1719
410-537-3315 • 800-633-6101 x3315 • www.mde.maryland.gov

Coal Combustion Byproducts (CCBs) Annual Generator Tonnage Report Instructions for Calendar Year 2016

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 2016. 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 ed.dexter@maryland.gov.

<u>I. Background.</u> 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."

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TTY Users: 800-735-2258

Facility Name: Mettiki Coal, LLC CCB Tonnage Report – 2016

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, 2017:

A. Contact information:							
	/lettiki Coal, LLC						
Name of Permit Holder: Mettiki Coal, LLC							
Facility Address:	293 Table Rock Roa	ad					
Tacinty Address.	Street						
Facility Address:	Oakland	Maryland	21550				
1	City	State	Zip				
County: Garr	ett						
Contact Informati	on (Person filing report or Enviro	onmental Manager)					
Facility Telephon	e No.: (301) 334-5396	Facility Fax No.:	(301) 334-1602				
Contact Name:	Aaron M. Miller						
	nvironmental Coordir	nator					
	293 Table Rock Roa						
Contact / Idai ess.	Street						
Contact Address:	Oakland N	/laryland	21550				
	City	State	Zip				
Contact Email: 2	aron.miller@arlp.com						
	_{e No.:} (301) 334-5336	_Contact Fax No.:	(301) 334-1602				

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

08-Dec-16

TTY Users: 800-735-2258

Facility Name:	Mettiki Coal, LLC	CCB Tonnage Report – 2016
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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:

Coal thermal dyer burning bituminous coal. Raw coal is first sent to the preparation plant where it is washed in a water bath to reduce sulfur and ah content. In the final stage of preparation, hot air from pulverized coal burners is passed through a fluidized bed of the wet washed coal in the thermal dryer to reduce the moisture content of the processed coal from approximately 15% approximately 5% to meet contract specifications for shipment tot he consumer.

C. The volume and weight of CCBs generated during calendar year 2016, 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.

<u>Table I: Volume and Weight of CCBs Generated for Calendar Year 2016:</u> 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.

Volume and Weight of CCBs Generated for Calendar Year 2016								
Thermal Coal Dryer Ash								
Type of CCB	Type of CCB	Type of CCB	Type of CCB					
775 Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards					
1,308.0 Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons					

Additional notes:	Facility Name: Mettiki Coal, LLC	CCB Tonnage Report – 2016
	Additional notes:	

- 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 2016, 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:

Volumes presented in Table I are disposed of in MDE Permit #DM 84-101 refuse disposal site on Mettiki owned property near the mine in Garrett County Maryland. Material is comingled with alkaline materials on site for reclamation.

Facility Name:	Mettiki Coal, LLC	CCB Tonnage Report – 2016
and (b) The diffe	erent uses by type and volume of	CCBs:
All volume of t	he described dryer ash is dispo	osed of in the permitted site.
If the space prov	vided is insufficient, please attach	additional pages in a similar format.
G. A description	n of how you intend to dispose of	or use CCBs in the next 5 years, identifying:
intended disposa	• •	ed to be disposed of or used, the location of and the type and volume of CCBs intended to
		ely 800 cu yds/ 1,300 tons per year of ash ed in our permitted coal refuse disposal
and (b) The diffe	erent intended uses by type and vo	olume of CCBs.
Disposal/recla	mation	
If the space prov	vided is insufficient, please attach	additional pages in a similar format.

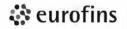
Facility Name: Mettiki Coal, LLC	CCB Tonnage Report – 2010
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IV. Signature and Certification. An authorized official of the generator must sign the annual report, and certify as to the accuracy and completeness of the information contained in the annual report:

	the best of my knowledge, the information contained in the true, accurate, and complete.	this report and
Signature	Michael Burch, General Manager, 301-334-5331 Name, Title, & Telephone No. (Print or Type) mike.burch@arlp.com	01/23/2017 Date
	Your Email Address	

V: Attachments (please list):

Please see attached applicable chemical characterization of the CCB produced as requested in Section III E.



Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Partial Report

Sample Description: Dryer Ash (mg/kg) Solid Sample

Quarterly CCB Reporting

LL Sample # SW 8734809 LL Group # 1742059 Account # 07329

Project Name: Quarterly CCB Reporting

Collected: 12/02/2016 09:45

Mettiki Coal Corporation

Submitted: 12/07/2016 09:00

293 Table Rock Road Oakland MD 21550

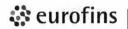
Reported: 01/13/2017 13:34

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
fetal:	5	SW-846	6010B	mg/kg	mg/kg	
01643	Aluminum		7429-90-5	740	12.1	1
06935	Arsenic		7440-38-2	N.D.	1.35	1
06946	Barium		7440-39-3	3.84	0.0461	1
07914	Boron		7440-42-8	1.83 J	1.16	1
06949	Cadmium		7440-43-9	N.D.	0.0684	1
06951	Chromium		7440-47-3	1.13 J	0.195	1
06953	Copper		7440-50-8	20.7	0.321	1
01654	Iron		7439-89-6	5,300	5.75	1
06955	Lead		7439-92-1	N.D.	0.768	1
01656	Lithium		7439-93-2	5.8	1.0	1
06958	Manganese		7439-96-5	3.17	0.116	1
06960	Molybdenum		7439-98-7	N.D.	0.237	1
06936	Selenium		7782-49-2	N.D.	1.26	1
06966	Silver		7440-22-4	N.D.	0.209	1
06972	Zinc		7440-66-6	3.36	0.949	1
		SW-846	7471A	mg/kg	mg/kg	
00159	Mercury		7439-97-6	N.D.	0.0143	1
et C	hemistry	EPA 300	0.0	mg/kg	mg/kg	
7338	Sulfate by IC (so		14808-79-8	58.8 J	37.1	5
	Reporting limits	were raised	due to interferer	ice from the samp	le matrix.	
et C	hemistry	SM 2540	G-1997	%	%	
00111	Moisture		n.a.	32.4	0.50	1
		s Celsius. T	in weight of the he moisture result			

Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
No.					Date and Ti	me		Factor
01643	Aluminum	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
06960	Molybdenum	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	163475708001	12/14/2016	06:05	Joanne M Gates	1

Reference ID: 1742059130117133429



Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Partial Report

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	e	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	163445711001	12/12/2016	13:52	Damary Valentin	1
07338	Sulfate by IC (solid)	EPA 300.0	2	16348348201A	12/15/2016 2	20:12	Alexandria M Lanager	5
00111	Moisture	SM 2540 G-1997	1	16344820010B	12/10/2016	00:55	Scott W Freisher	1

Sample Description: Dryer Ash (mg/l) Solid Sample

TCLP NON-VOLATILE EXTRACTION Quarterly CCB Reporting

LL Sample # TL 8734810 LL Group # 1742059 Account # 07329

Project Name: Quarterly CCB Reporting

Collected: 12/02/2016 09:45

Submitted: 12/07/2016 09:00 Reported: 01/13/2017 13:34 Mettiki Coal Corporation

293 Table Rock Road Oakland MD 21550

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metal	s	SW-846 6010B	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.483	0.0868	1
07035	Arsenic	7440-38-2	N.D.	0.0097	1
07046	Barium	7440-39-3	0.0340	0.0011	1
08014	Boron	7440-42-8	0.0245 J	0.0083	1
07049	Cadmium	7440-43-9	N.D.	0.00049	1
07051	Chromium	7440-47-3	N.D.	0.0018	1
07053	Copper	7440-50-8	0.0994	0.0041	1
01754	Iron	7439-89-6	0.0949 J	0.0747	1
07055	Lead	7439-92-1	N.D.	0.0062	1
01756	Lithium	7439-93-2	0.0773	0.0048	1
07058	Manganese	7439-96-5	0.0373	0.0018	1
07060	Molybdenum	7439-98-7	N.D.	0.0017	1
07036	Selenium	7782-49-2	N.D.	0.0097	1
07066	Silver	7440-22-4	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.0193 J	0.0054	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
No.					Date and Time	е		Factor
01743	Aluminum	SW-846 6010B	1	163505705001	12/16/2016 1	15:08	Katlin N Cataldi	1
07035	Arsenic	SW-846 6010B	1	163505705001	12/16/2016 1	15:08	Katlin N Cataldi	1
07046	Barium	SW-846 6010B	1	163505705001	12/16/2016 1	15:08	Katlin N Cataldi	1
08014	Boron	SW-846 6010B	1	163505705001	12/19/2016 0	08:33	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	163505705001	12/16/2016 1	15:08	Katlin N Cataldi	1
07051	Chromium	SW-846 6010B	1	163505705001	12/16/2016 1	15:08	Katlin N Cataldi	1
07053	Copper	SW-846 6010B	1	163505705001	12/16/2016 1	15:08	Katlin N Cataldi	1
01754		SW-846 6010B	1	163505705001	12/16/2016 1	15:08	Katlin N Cataldi	1
07055		SW-846 6010B	1	163505705001	12/16/2016 1	15:08	Katlin N Cataldi	1
	Lithium	SW-846 6010B	1	163505705001	12/21/2016 1	11:31	Joanne M Gates	1

Reference ID: 1742059130117133429



METTIKI COAL LLC COMPANY: QUARTERLY CCB SAMPLING (SAMPLED 12-06-16) SAMPLE ID:

DECEMBER 8, 2016 DATE:

ACID BASE ACCOUNT

Caldum Carbonate Equilvalent Tons/1000 Tons of Material

	Paste pH	10.2										
	Excess CaCO ₃	4.28	201.09									
	Max Needed (pH-7)											
	N.P.	4.50			(a) (24)							
	_	.22										
	% Sulfur	.007										
	Color	10YR 3/2										
	Fiz	0										
	Rock Type											
	Strata Thick (feet)											
	DEPTH (feet)											
	SAMPLE ID	DRYER ASH										

APPROVED_