



Mettiki Coal, LLC
James C. Ashby
Manager, Environmental Affairs

February 4, 2016

Ms. Martha Hynson
Solid Waste Program
Maryland Department of the Environment
Waste Management Administration
1800 Washington Blvd., STE 605
Baltimore, MD 21230-1719

Dear Mr. Dexter:

Enclosed please find one (1) copy of our 2015 Annual Generator Tonnage Report to meet the requirements of COMAR 26.04.10.08. The report covers the period from January 1, 2015 through December 31, 2015.

If you need additional information or clarification, please call.

Sincerely,

James C. Ashby

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FEB 04 2016

LAND MANAGEMENT ADMIN
SOLID WASTE PROGRAM

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

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FEB 05 2016

Coal Combustion Byproducts (CCBs) Annual Generator Tonnage Report Instructions for Calendar Year 2015

LAND MANAGEMENT ADMIN.
SOLID WASTE PROGRAM

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 2015. 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.

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."*

Facility Name: Mettiki Coal, LLC

CCB Tonnage Report – 2015

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, 2016:

A. Contact information:

Facility Name: Mettiki Coal, LLC

Name of Permit Holder: Mettiki Coal, LLC

Facility Address: 293 Table Rock Road

Street

Facility Address: Oakland

City

Maryland

State

21550

Zip

County: Garrett

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 301 334 5336

Facility Fax No.: _____

Contact Name: James C. Ashby

Contact Title: Manager, Environmental Affairs

Contact Address: 293 Table Rock Road

Street

Contact Address: Oakland

City

Maryland

State

21550

Zip

Contact Email: jim.ashby@arlp.com

Contact Telephone No.: 301 334 5336

Contact Fax No.: _____

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:

Coal thermal dryer burning bituminous coal. Raw coal is first sent to the preparation plant where it is washed in a water bath to reduce sulfur and ash 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% to approximately 5% to meet contract specifications for shipment to the consumer.

C. The volume and weight of CCBs generated during calendar year 2015, 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 2015: 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 2015			
Thermal Coal Dryer Ash			
Type of CCB	Type of CCB	Type of CCB	Type of CCB
897.47			
Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards
1,514			
Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons

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. **NONE**

E. Copies of all laboratory reports of all chemical characterizations of the CCBs. Please attach this information to the report. **See Attachment 1**

F. A description of how you disposed of or used your CCBs in calendar year 2015, 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 1 are disposed in MDE Permit # DM84-101 refuse disposal site on Mettki 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 – 2015

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

All volumes are disposed in the permitted site.

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:

The previous five (5) year average of approximately 21,000 cu/ft (800 cu yds / 1,300 tons) per year of ash generation is expected to continue to be placed in our permitted coal refuse disposal site.

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

Disposal/reclamation

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



Lancaster Laboratories
Environmental

Analysis Report

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

Sample Description: Mettiki Dryer Ash Grab Solid Sample
CCB Reporting

LL Sample # SW 8141315
LL Group # 1610620
Account # 07329

Project Name: CCB Reporting

Collected: 11/17/2015 10:30 by JA

Mettiki Coal Corporation
293 Table Rock Road
Oakland MD 21550

Submitted: 11/19/2015 08:20

Reported: 12/17/2015 10:36

DRYER

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
01643	Aluminum	7429-90-5	745	7.58	1
06944	Antimony	7440-36-0	N.D.	0.406	1
06935	Arsenic	7440-38-2	N.D.	0.574	1
06946	Barium	7440-39-3	4.40	0.0663	1
06947	Beryllium	7440-41-7	0.152 J	0.0663	1
07914	Boron	7440-42-8	N.D.	0.822	1
06949	Cadmium	7440-43-9	N.D.	0.0426	1
01650	Calcium	7440-70-2	454	3.30	1
06951	Chromium	7440-47-3	1.89	0.0970	1
06952	Cobalt	7440-48-4	1.94	0.0802	1
06953	Copper	7440-50-8	27.7	0.277	1
01654	Iron	7439-89-6	4,040	3.30	1
06955	Lead	7439-92-1	N.D.	0.317	1
01656	Lithium	7439-93-2	8.2	0.58	1
01657	Magnesium	7439-95-4	97.6	1.65	1
06958	Manganese	7439-96-5	2.26	0.0806	1
06960	Molybdenum	7439-98-7	N.D.	0.168	1
06961	Nickel	7440-02-0	6.52	0.228	1
01662	Potassium	7440-09-7	72.7	16.6	1
06936	Selenium	7782-49-2	N.D.	0.822	1
06966	Silver	7440-22-4	N.D.	0.119	1
01667	Sodium	7440-23-5	17.0 J	16.5	1
06925	Thallium	7440-28-0	N.D.	0.743	1
06971	Vanadium	7440-62-2	2.47	0.149	1
06972	Zinc	7440-66-6	3.60	0.762	1
SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0093	1

Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	N.D.	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1

Sample Description: Mettiki Dryer Ash Grab Solid Sample
CCB Reporting

LL Sample # SW 8141315
LL Group # 1610620
Account # 07329

Project Name: CCB Reporting

Collected: 11/17/2015 10:30 by JA

Mettiki Coal Corporation
293 Table Rock Road
Oakland MD 21550

Submitted: 11/19/2015 08:20

Reported: 12/17/2015 10:36

DRYER

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	153375708003	12/07/2015 19:32	Elaine F Stoltzfus	1
06958	Manganese	SW-846 6010B	3	153415708002	12/09/2015 13:32	Joanne M Gates	1
06960	Molybdenum	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	153375708003	12/07/2015 14:02	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	153355711001	12/03/2015 08:19	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	153375708003	12/06/2015 19:30	Annamaria Kuhns	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	2	153415708002	12/08/2015 10:19	Christopher M Klumpp	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	153355711001	12/02/2015 13:00	Christopher M Klumpp	1
00111	Moisture	SM 2540 G-1997	1	15329820913B	11/28/2015 21:10	Scott W Freisher	1



Sample Description: **Mettiki Dryer Ash Grab Solid Sample**
TCLP NON-VOLATILE EXTRACTION
CCB Reporting

LL Sample # **TL 8141316**
 LL Group # **1610620**
 Account # **07329**

Project Name: **CCB Reporting**

Collected: 11/17/2015 10:30 by **JA**

Mettiki Coal Corporation
 293 Table Rock Road
 Oakland MD 21550

Submitted: 11/19/2015 08:20

Reported: 12/17/2015 10:36

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/l	
01743	Aluminum	7429-90-5	1.32	0.0841	1
07035	Arsenic	7440-38-2	N.D.	0.0070	1
07046	Barium	7440-39-3	0.0306	0.00030	1
07049	Cadmium	7440-43-9	N.D.	0.00030	1
07051	Chromium	7440-47-3	0.0021 J	0.0015	1
07053	Copper	7440-50-8	0.125	0.0025	1
07055	Lead	7439-92-1	N.D.	0.0051	1
07058	Manganese	7439-96-5	0.0043 J	0.00080	1
07036	Selenium	7782-49-2	N.D.	0.0082	1
07066	Silver	7440-22-4	N.D.	0.0014	1
07072	Zinc	7440-66-6	0.0202	0.0039	1
			SW-846 7470A	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General 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.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010B	1	153375705002	12/16/2015 02:29	Tara L Snyder	1
07035	Arsenic	SW-846 6010B	1	153375705002	12/16/2015 02:29	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	153375705002	12/16/2015 02:29	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	153375705002	12/16/2015 02:29	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	153375705002	12/16/2015 02:29	Tara L Snyder	1
07053	Copper	SW-846 6010B	1	153375705002	12/16/2015 02:29	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	153375705002	12/16/2015 02:29	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	153375705002	12/16/2015 02:29	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	153375705002	12/16/2015 02:29	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	153375705002	12/16/2015 02:29	Tara L Snyder	1
07072	Zinc	SW-846 6010B	1	153375705002	12/17/2015 01:40	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	153375713007	12/07/2015 10:19	Damary Valentin	1
05705	ICP-WW/TL, 3010A (tot) U3	SW-846 3010A	1	153375705002	12/04/2015 08:10	Katlin N Cataldi	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	153375713007	12/04/2015 10:28	Katlin N Cataldi	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	15336-2486-094 7A	12/02/2015 14:00	Christina A Huber	n.a.



Lancaster Laboratories
Environmental

Analysis Report

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

Sample Description: Mettiki Dryer Ash Grab Solid Sample
SPLP NON-VOLATILE EXTRACTION
CCB Reporting

LL Sample # TL 8141317
LL Group # 1610620
Account # 07329

Project Name: CCB Reporting

Collected: 11/17/2015 10:30 by JA

Mettiki Coal Corporation
293 Table Rock Road
Oakland MD 21550

Submitted: 11/19/2015 08:20

Reported: 12/17/2015 10:36

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	
01743	Aluminum	7429-90-5	8.63	0.0841	1
07035	Arsenic	7440-38-2	N.D.	0.0070	1
07046	Barium	7440-39-3	0.0150 J	0.0030	10
The Barium result was performed by the Method of Standard Addition. Reporting limits were raised due to interference from the sample matrix.					
07049	Cadmium	7440-43-9	0.00032 J	0.00030	1
07051	Chromium	7440-47-3	0.0121 J	0.0015	1
07053	Copper	7440-50-8	N.D.	0.0025	1
07055	Lead	7439-92-1	N.D.	0.0051	1
07058	Manganese	7439-96-5	0.0110	0.00080	1
07036	Selenium	7782-49-2	N.D.	0.0082	1
07066	Silver	7440-22-4	N.D.	0.0014	1
07072	Zinc	7440-66-6	0.0137 J	0.0039	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General 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.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01743	Aluminum	SW-846 6010B	1	153365705003	12/04/2015 16:30	Suzanne M Will	1
07035	Arsenic	SW-846 6010B	1	153365705003	12/10/2015 00:18	Elaine F Stoltzfus	1
07046	Barium	SW-846 6010B	2	153365705003	12/10/2015 01:02	Elaine F Stoltzfus	10
07049	Cadmium	SW-846 6010B	1	153365705003	12/10/2015 00:18	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010B	1	153365705003	12/04/2015 16:30	Suzanne M Will	1
07053	Copper	SW-846 6010B	1	153365705003	12/04/2015 16:30	Suzanne M Will	1
07055	Lead	SW-846 6010B	1	153365705003	12/10/2015 00:18	Elaine F Stoltzfus	1
07058	Manganese	SW-846 6010B	1	153365705003	12/04/2015 16:30	Suzanne M Will	1
07036	Selenium	SW-846 6010B	1	153365705003	12/10/2015 00:18	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010B	1	153365705003	12/04/2015 16:30	Suzanne M Will	1
07072	Zinc	SW-846 6010B	1	153365705003	12/04/2015 16:30	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	153365713002	12/04/2015 09:33	Damary Valentin	1
05705	ICP-WW/TL, 3010A (tot) - U3	SW-846 3010A	1	153365705003	12/03/2015 08:30	Katlin N Cataldi	1

