COVANTA
ENERGY

Covanta Lee, Inc.
A Covanta Energy Company
10500 Buckingham Road
Fort Myers, FL 33905
Tel 239 337 2200
Fax 239 337 2510

January 5, 2011

Mr. Philip Barbaccia
Solid Waste Section
Florida Department of Environmental Protection
South District Office
2295 Victoria Avenue
Fort Myers, Florida 33901

RE: 2010 Ash Residue Summary Report

Dear Mr. Barbaccia,

In accordance with the requirements of Chapter 62-702 F.A.C., attached please find the 2010 ash residue summary report for the Lee County Solid Waste Resource Recovery Facility.

If you have any questions regarding this matter, please do not hesitate to contact me. I can be reached during the day at (239) 337-2200, Extension 228.

Sincerely,

Michael Duff
Facility Manager

cc: L. Sampson
K. Chardo (File)
DEP Siting Office

LEE COUNTY SOLID WASTE RESOURCE RECOVERY
(OPERATED BY: COVANTA LEE, INC.)

ENVIRONMENTAL TEST REPORT

PREPARED FOR: Lee County Solid Waste Resource Recovery Facility
Covanta Lee, Inc.
10500 Buckingham Road Suite 400
Fort Myers, Florida 33905

REGARDING: FDEP Rule: 62-702 F.A.C.

ASSOCIATED REGULATORY AGENCIES: Florida Department of Environmental Protection
South District Office
Solid Waste Management Division
2295 Victoria Avenue Suite
Ft. Myers, Florida 33901

PURPOSE: Ash Residue Analysis Summary

SAMPLE PERIOD: January through December 2010

PREPARED BY: Kristen A. Chardo, Environmental Specialist

DATE ISSUED: January 5, 2011

TABLE OF CONTENTS

1.0 INTRODUCTION

Prepared in accordance with the Florida Department of Environmental Protection (FDEP) Rule 62-702 F.A.C., for Solid Waste Combustor Ash Management, the 2010 Annual Ash Residue Analysis Summary report provides the quarterly total metal results for the Lee County Solid Waste Resource Recovery Facility. On a quarterly basis, the ash residue composite samples were analyzed for total metals utilizing Environmental Protection Agency (EPA) Method 3050, Acid Digestion of Sediments, Sludges, and Soils.

2.0 FIELD ASH SAMPLING PROCEDURES

On a monthly basis, combined ash samples were collected at ten-minute intervals for four consecutive hours, in accordance with the procedures outlined in the FDEP Quality Assurance Standard Operating Procedures Manual for Sampling Ash Residue from Solid Waste Combustors. Each monthly sample was composited and placed in an airtight storage container, and labeled appropriately. At the end of each quarter, the three monthly composite samples were combined to form the quarterly composite sample. Sanders Laboratories, Inc. (Covanta Lee's contracted laboratory) performed the analysis on the quarterly composite sample.

One sample per quarter, typically collected during the last month of the quarter, was analyzed for mercury via EPA Method 7470. [Note:The mercury analysis is performed once per quarter, since analyzing the quarterly composite sample would exceed the holding time specified in the analytical method.]

3.0 LABORATORY INFORMATION

Sanders Laboratories, Inc., an independently owned and operated laboratory, was contracted by Covanta Lee, Inc. to collect and analyze the combined ash residue samples. Additionally, Sanders Laboratories prepares (via drying, crushing, and rifling) the samples for analysis, and provides a report that presents the analytical data on a dry ash basis.

Covanta Lee has instructed affected Sanders Laboratories representatives on the proper handling of the ash residue from the combustion of solid waste.

4.0 RESULTS

The total metals results on a "dry metal" basis are presented in Table 1. Table 2 presents the total metals results on an "as received" basis. The "as received" basis is determined by the following calculation:

As received =	Dry Weight	*	Dry Ash Sample Weight
(mg/Kg)	Concentration (mg/Kg)		Gross Reduced Sample Weight

** The "dry weight" concentration is the concentration that results from the crushed, dried, and riffled ash samples. The "as received" values represent the ash condition as delivered to the landfill, which includes moisture.*

TABLE 1: LEE COUNTY SOLID WASTE RESOURCE RECOVERY FACILITY

2010 ASH RESIDUE TOTAL METALS ANALYSIS RESULTS (mg/Kg) ON A DRY ASH BASIS

Sampling Period	Antimony (mg/Kg)	Arsenic (mg/Kg)	Beryllium (mg/Kg)	Cadmium (mg/Kg)	Chromium (mg/Kg)	Copper (mg/Kg)	Lead (mg/Kg)	Nickel (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Thallium (mg/Kg)	Zinc (mg/Kg)	Moisture Content %
1st Quarter	108	61.0	<0.47	69.6	69.6	771	2,610	58.5	<2.99	4.23	<7.96	4,480	19.6
2nd Quarter	134	48.7	0.19	60.9	53.6	1,040	487	23.1	<0.83	4.63	<2.19	4,750	20.4
3rd Quarter	115	60.7	0.38	80.9	64.5	632	518	29.1	<4.17	6.19	0.16	4,300	20.9
4th Quarter	188	85.1	0.34	138	76.4	2,000	751	53.8	1.88	7.88	7.51	7,510	20.1

TABLE 2 - LEE COUNTY SOLID WASTE RESOURCE RECOVERY FACILITY
2010 ASH RESIDUE TOTAL METALS ANALYSIS RESULTS (mg/Kg) ON AN "AS RECEIVED" BASIS

Sampling Period	Sample ID	Antimony (mg/Kg)	Arsenic (mg/Kg)	Beryllium (mg/Kg)	Cadmium (mg/Kg)	Chromium (mg/Kg)	Copper (mg/Kg)	Lead (mg/Kg)	Nickel (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Thallium (mg/Kg)	Zinc (mg/Kg)
1st Quarter	N0903297-01	87	49.1	<0.47	56.0	56.0	620	2099	47	<2.99	3.4	<7.96	3603
2nd Quarter	N1006074-01	106.7	38.8	0.190	48.5	42.7	828	388	18	<0.83	4.6	<2.19	3781
3rd Quarter	N1009055-01	91	48.0	0.380	64.0	51.0	500	410	23	<4.17	4.9	0.2	3401
4th Quarter	N1012079-01	150	68.0	0.340	110.3	61.0	1598	600	43	1.88	6.3	7.5	6000

TABLE 3: LEE COUNTY SOLID WASTE RESOURCE RECOVERY FACILITY
2010 ASH RESIDUE ANALYSIS RESULTS FOR MERCURY (mg/Kg)

Sampling Period	Sample ID	Sample Date	% Moisture Content	Dry-Ash Basis Mercury (mg/Kg)	"As Recieved" Basis Mercury (mg/Kg)
1st Quarter	N1003099-01	03/04/10	18.1	1.59	1.30
2nd Quarter	N1006073-1	06/07/10	20.4	0.21	0.17
3rd Quarter	N1009054	09/02/10	16.1	<0.01	<0.01
4th Quarter	N1012080	12/06/10	19.8	<0.01	<0.01

APPENDIX

FIRST QUARTER 2010

SANDERS LABORATORIES, INC.
Laboratory Test Report

Lab Project #: N1003099

Client: Covanta Energy
10500 Buckingham Rd.
Suite 400
Fort Myers, FL 33905

Phone: 1-239-337-2200
Fax: 1-239-337-2510
E-mail:
Client Project Name: WTE Ash Belt Composite
Laboratory Contact: Jeff Walsh

All subsequent pages are identified by: N1003099. These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.
I: The reported value is between the laboratory MDL and the laboratory PQL.
J3: The reported value failed to meet the established quality control criteria.
J4: The sample matrix interfered with the ability to make an accurate determination.
J5: The data is questionable because of improper lab or field protocols.
K: Off scale low, actual value is less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
V: The analyte was detected in both the sample and the associated method blank.
Y: The sample was unpreserved or improperly preserved.
Z: Too many colonies present (TNTC).
** This result does not meet NELAC standards.
HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.

Sanders Laboratories follows DEP standard operating procedures for field sampling.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of $25.00 per report. Reports older than 1 year are available for a fee of $50.00 per report. Copies will be provided within 1 week of the time of the request.

Client Project: WTE Ash Belt Composite
Lab Project: N1003099
Report Date: 03/23/10

Sanders Laboratories, Inc.
Environmental Testing Services

Laboratory Results

Covanta Energy
10500 Buckingham Rd.
Suite 400
Fort Myers, FL 33905

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1003099-01	4 Hr. Ash Belt Composite	Other	composite	3/5/10 11:00	3/4/10 13:10

Analysis	Method	Results	Qual	MDL	Units	AnalysisDate/Time	Analyst	Cert ID
Mercury, Total (solid)	EPA7470	1.59		0.07	mg/Kg dry	3/18/10 17:16	HBEL	E96080
Total Solids %	SM2540G	81.9		0.01	%	3/5/10 16:30	AS	E84380

Approved by:

Comments:

Andrew Konopacki/Lab Manager Nokomis

Test Results meet all the requirements of the NELAC standards.

Sanders Laboratories
Environmental Testing Services

ASH COMPOSITE WORKSHEET

Monthly Composite # 1 Date: 1.7.10 Start Time: 0920 Finish Time: 1310

Field ID # WTE010710 Discarded Residue weight: 23 LBS Size: .5" - 1.5" Type: Rock, glass METAL

Monthly Composite # 2 Date: 2.5.10 Start Time: 0725 Finish Time: 1115

Field ID # WTE020510 Discarded Residue weight: 26 LBS Size: .5" - 2" Type: Rock, glass METAL

Monthly Composite # 3 Date: 03.4.10 Start Time: 0920 Finish Time: 1310

Field ID # WTE030410 Discarded Residue weight: 24 LBS Size: .5" - 2" Type: Rock, glass METAL

Lab ID. For Hg sample N 1003099

- Collect ash samples of approximately 1-lb @ 10 minute intervals over a 4 hour period.
- The sample will be stored in a covered pre-cleaned plastic bucket during sampling.
- Mix the composite sample well with a pre-cleaned spoon or spatula, and then pass through a 3/8" sieve. Non- crushable residue is weighed and discarded.
- Place ¼ of the composited, mixed and sieved ash sample into a large sample container. Lable with the following information: Field ID. #, sample location, date and time of sampling, collectors name and analyses to be performed (As, Sb, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag , Tl, Zn). Discard the remaining ¾.

Note: Before adding the third monthly composite to the 2 previous monthly composites, aliquot a portion for Mercury analyses. Assign this a separate sample number.

Quarterly Composite

Date & Time Composite Prepared 03.05.10 Lab ID # N 1003100

- Combine the three monthly composites, mix well.
- Discard ½ the mixture. Divide the remaining composite into two equal portions. Archive one portion for possible future testing. The other portion will be analyzed for the Priority Pollutant Metals listed above.

1050 Endeavor Ct. • Nokomis, FL 34275 • Phone: (941) 488-8103 • (800) 255-3108 • Fax: (941) 484-6774

Sanders Laboratories INC.
Environmental Testing Services

CHAIN-OF-CUSTODY RECORD

PROJECT # N1003099

Page 1 of 1

Report To: Mike DUFF
Bill To:
P.O. #

Project Name: Ash Belt
Project Location: FT. Myers
Customer Type:
Kit # FOR LAB USE ONLY
REQUESTED DUE DATE: 3/15/10

Client COVANTA Energy
Address 10500 Buckingham Rd
FT. Myers, FL 33905
Phone 239. 337. 2200 Fax

Preservative: HCl = H, HNO_3 = N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Sampled By (PRINT) HILARY CROOK
Sampler Signature

Matrix	SAMPLE DESCRIPTION	Sample DATE	Sample TIME	Sample TYPE	PRESERVATIVES pH	PRESERVATIVES ICE	ANALYSES REQUEST % TS	ANALYSES REQUEST Hg	Sample ID #
	4 hr. Ash Belt composite	3.4.10	1310	C			1	1	-01A

Bottle Lot #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
C600401L		3.5.10	11		3/5/10	1100

COMMENTS:

OKAY TO RUN AS IS.
CLIENT INITIAL:

SAMPLES ON ICE
Yes (No)

1050 Endeavor Ct., Nokomis, FL 34275-3623 • (941)488-8103 • FAX 484-6774 • 10090 Bavaria Rd., Fort Myers, FL 33913 • (239) 590-0337 • FAX (239) 590-0536

SANDERS LABORATORIES, INC.
Laboratory Test Report

Lab Project #: N1003100

Client: Covanta Energy
10500 Buckingham Rd.
Suite 400
Fort Myers, FL 33905

Phone: 1-239-337-2200
Fax: 1-239-337-2510
E-mail:
Client Project Name: WTE Ash Belt Composite
Laboratory Contact: Jeff Walsh

All subsequent pages are identified by: N1003100. These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.
I: The reported value is between the laboratory MDL and the laboratory PQL.
J3: The reported value failed to meet the established quality control criteria.
J4: The sample matrix interfered with the ability to make an accurate determination.
J5: The data is questionable because of improper lab or field protocols.
K: Off scale low, actual value is less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
V: The analyte was detected in both the sample and the associated method blank.
Y: The sample was unpreserved or improperly preserved.
Z: Too many colonies present (TNTC).
** This result does not meet NELAC standards.
HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Sanders Laboratories follows DEP standard operating procedures for field sampling.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of $25.00 per report. Reports older than 1 year are available for a fee of $50.00 per report. Copies will be provided within 1 week of the time of the request.

Client Project: WTE Ash Belt Composite
Lab Project: N1003100
Report Date: 03/23/10

Sanders Laboratories, Inc.
Environmental Testing Services

Laboratory Results

Covanta Energy
10500 Buckingham Rd.
Suite 400
Fort Myers, FL 33905

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1003100-01	1st Qrt. Ash Belt Composite	Other	composite	3/5/10 11:00	3/5/10 11:00

Analysis	Method	Results	Qual	MDL	Units	AnalysisDate/Time	Analyst	Cert ID
Antimony	6010B	108		2.24	mg/Kg dry	3/19/10 15:08	HBEL	E96080
Arsenic	6010B	61.0		1.74	mg/Kg dry	3/19/10 15:08	HBEL	E96080
Beryllium	6010B	0.47	U	0.47	mg/Kg dry	3/19/10 15:08	HBEL	E96080
Cadmium	6010B	69.6		0.34	mg/Kg dry	3/19/10 15:08	HBEL	E96080
Chromium	6010B	69.6		0.85	mg/Kg dry	3/19/10 15:08	HBEL	E96080
Copper	6010B	771		0.66	mg/Kg dry	3/19/10 15:08	HBEL	E96080
Lead	6010B	2610		1.37	mg/Kg dry	3/19/10 15:08	HBEL	E96080
Nickel	6010B	58.5		0.95	mg/Kg dry	3/19/10 15:08	HBEL	E96080
Selenium	6010B	2.99	U	2.99	mg/Kg dry	3/19/10 15:08	HBEL	E96080
Silver	6010B	4.23		0.47	mg/Kg dry	3/19/10 15:08	HBEL	E96080
Thallium	6010B	7.96	U	7.96	mg/Kg dry	3/19/10 15:08	HBEL	E96080
Total Solids %	SM2540G	80.4		0.01	%	3/5/10 16:30	AS	E84380
Zinc	6010B	4480		47.3	mg/Kg dry	3/19/10 15:08	HBEL	E96080

Approved by:

Comments:

Andrew Konopacki, Lab Manager Nokomis

Test Results meet all the requirements of the NELAC standards.

Sanders Laboratories
Environmental Testing Services

ASH COMPOSITE WORKSHEET

Monthly Composite # 1 Date: 1.7.10 Start Time: 0920 Finish Time: 1310

Field ID # WTE010710 Discarded Residue weight: 23 LBS Size: .5" - 1.5" Type: Rock, glass, METAL

Monthly Composite # 2 Date: 2.5.10 Start Time: 0725 Finish Time: 1115

Field ID # WTE020510 Discarded Residue weight: 26 LBS Size: .5" - 2" Type: Rock, glass, METAL

Monthly Composite # 3 Date: 03.4.10 Start Time: 0920 Finish Time: 1310

Field ID # WTE030410 Discarded Residue weight: 24 LBS Size: .5" - 2" Type: Rock, glass, METAL

Lab ID. For Hg sample N1003099

- Collect ash samples of approximately 1-lb @ 10 minute intervals over a 4 hour period.
- The sample will be stored in a covered pre-cleaned plastic bucket during sampling.
- Mix the composite sample well with a pre-cleaned spoon or spatula, and then pass through a 3/8" sieve. Non- crushable residue is weighed and discarded.
- Place ¼ of the composited, mixed and sieved ash sample into a large sample container. Lable with the following information: Field ID. #, sample location, date and time of sampling, collectors name and analyses to be performed (As, Sb, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag , Tl, Zn). Discard the remaining ¾.

Note: Before adding the third monthly composite to the 2 previous monthly composites, aliquot a portion for Mercury analyses. Assign this a separate sample number.

Quarterly Composite

Date & Time Composite Prepared 03.05.10 Lab ID # N1003100

- Combine the three monthly composites, mix well.
- Discard ½ the mixture. Divide the remaining composite into two equal portions. Archive one portion for possible future testing. The other portion will be analyzed for the Priority Pollutant Metals listed above.

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Sanders Laboratories INC.
Environmental Testing Services

CHAIN-OF-CUSTODY RECORD

PROJECT # N1003100

Page 1 of 1

Client COVANTA Energy
Address 10500 Buckingham Rd.
Ft. Myers, FL 33905
Phone 239. 332. 2200 Fax

Report To: Mike DUFF
Bill To:
P.O. #
Preservative: HCl = H, HNO_3 = N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Project Name: Ash Belt
Project Location: QRTLY composite
Customer Type:
Kit # FOR LAB USE ONLY
REQUESTED DUE DATE: 3/15/10

Sampled By (PRINT) HILARY Crook
Sampler Signature

Matrix	SAMPLE DESCRIPTION	Sample DATE	Sample TIME	Sample TYPE	PRESERVATIVES pH	PRESERVATIVES ICE	ANALYSES REQUEST: Hg, TL, Zn	As, Sb, Be, Cd	Cr, Cu, Pb, Ni	Se, Ag, Tl, Zn	Sample ID #
	1ST QRT. Ash Belt composite	3.5.10	1100	C			1	1	1	1	-01A
	1.7.10										
	2.5.10										
	3.4.10										

Bottle Lot #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
C600401L		3.5.10	1100		3/5/10	1100

COMMENTS:

OKAY TO RUN AS IS:
CLIENT INITIAL:
SAMPLES ON ICE Yes (No)

SECOND QUARTER 2010

Sanders Laboratories
Environmental Testing Services

Laboratory Test Report

Lab Project #: N1006073

Page 1 of 4

All subsequent pages are identified by: N1006073 . These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Client: Covanta Energy

10500 Buckingham Rd.
Suite 400
Fort Myers, FL 33905

Phone: 1-239-337-2200
Fax: 1-239-337-2510
E-mail:

Project Name: Ash Belt

Questions regarding this report should be directed to your **Laboratory Contact**:

Jeff Walsh

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.
I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
J: Estimated Value.
J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
K: Off scale low, actual value is known to be less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Y: The laboratory analysis was from an improperly preserved sample.
Z: Too many colonies were present for accurate counting.
HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.

Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of $25.00 per report. Reports older than 1 year are available for a fee of $50.00 per report. Copies will be provided within 1 week of the time of the request.

Comments:

Approved by:

Andrew Konopacki
Operations Manager

Sanders Laboratories
Environmental Testing Services

ASH COMPOSITE WORKSHEET

Monthly Composite # 1 Date: 4.1.10 Start Time: 0935 Finish Time: 1325

Field ID # WTE040110 Discarded Residue weight: 26 LBS Size: .5" - 2" Type: METAL Rock, GLASS

Monthly Composite # 2 Date: 5.6.10 Start Time: 0930 Finish Time: 1320

Field ID # WTE050610 Discarded Residue weight: 27 LBS Size: .5" - 2" Type: Rock, METAL GLASS

Monthly Composite # 3 Date: 6.3.10 Start Time: 0935 Finish Time: 1325

Field ID # WTE060310 Discarded Residue weight: 26 LBS Size: .5" - 2" Type: Rock, METAL GLASS

Lab ID. For Hg sample N1006073

- Collect ash samples of approximately 1-lb @ 10 minute intervals over a 4 hour period.
- The sample will be stored in a covered pre-cleaned plastic bucket during sampling.
- Mix the composite sample well with a pre-cleaned spoon or spatula, and then pass through a 3/8" sieve. Non- crushable residue is weighed and discarded.
- Place ¼ of the composited, mixed and sieved ash sample into a large sample container. Lable with the following information: Field ID. #, sample location, date and time of sampling, collectors name and analyses to be performed (As, Sb, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag , Tl, Zn). Discard the remaining ¾.

Note: Before adding the third monthly composite to the 2 previous monthly composites, aliquot a portion for Mercury analyses. Assign this a separate sample number.

Quarterly Composite

Date & Time Composite Prepared 6.7.10 / 0900 Lab ID # N1006074

- Combine the three monthly composites, mix well.
- Discard ½ the mixture. Divide the remaining composite into two equal portions. Archive one portion for possible future testing. The other portion will be analyzed for the Priority Pollutant Metals listed above.

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Covanta Energy

Client Project: Ash Belt

Lab Project: N1006073

Report Date: 06/14/10

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1006073-01	4 Hr. Composite Ash Belt	Other	composite	6/7/10 14:00	6/3/10 13:25

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Mercury, Total (solid)	0.21		0.02	0.09	mg/Kg dry	EPA7470	NB100614009	6/9/10 13:05	HBEL	E96080
Total Solids %	79.6		0.01	0.01	%	SM2540G	NB100608023	6/7/10 16:15	AS	E84380

Sanders Laboratories INC.
Environmental Testing Services

CHAIN-OF-CUSTODY RECORD

PROJECT # N1006073

Page 1 of 1

Client COVANTA ENERGY
Address 10500 BUCKINGHAM RD.
FT. MYERS, FL 33905
Phone _____ Fax _____

Report To: MIKE DUFF
Bill To: _____
P.O. # _____
Preservative: HCl = H, HNO_3 = N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Project Name: _____
Project Location: ASH BELT
Customer Type: _____
Kit # _____
REQUESTED DUE DATE: 6/15/10

Sampled By (PRINT) HILLARY CROOK
Sampler Signature

Matrix	SAMPLE DESCRIPTION	Sample DATE	Sample TIME	Sample TYPE	PRESERVATIVES pH	PRESERVATIVES ICE	ANALYSES REQUEST Hg & La TS	Sample ID #
	4 HR. COMPOSITE ASH BELT	6.3.10	9:35 TO 13:25	C				-01A

Bottle Lot #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
		6/7/10	1400		6/7/10	1400

COMMENTS:

OKAY TO RUN AS IS...
CLIENT INITIAL:

SAMPLES ON ICE
Yes (No)

Sanders Laboratories
Environmental Testing Services

Laboratory Test Report

Lab Project #: N1006074

Page 1 of 4

All subsequent pages are identified by: N1006074 . These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your **Laboratory Contact**:

Jeff Walsh

Client: Covanta Energy

10500 Buckingham Rd.
Suite 400
Fort Myers, FL 33905

Phone: 1-239-337-2200
Fax: 1-239-337-2510
E-mail:

Project Name: WTE Ash Belt Composite

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.
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K: Off scale low, actual value is known to be less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Y: The laboratory analysis was from an improperly preserved sample.
Z: Too many colonies were present for accurate counting.
HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

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Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of $25.00 per report. Reports older than 1 year are available for a fee of $50.00 per report. Copies will be provided within 1 week of the time of the request.

Comments:

Approved by:

Andrew Konopacki
Operations Manager

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Covanta Energy

Client Project: WTE Ash Belt Composite

Lab Project: N1006074

Report Date: 06/28/10

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1006074-01	4 Hr. Comp	Other	composite	6/7/10 14:00	6/3/10 0:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Antimony	134		0.62	2.48	mg/Kg dry	6010B	NB100628019	6/10/10 19:12	HBEL	E96080
Arsenic	48.7		0.46	1.85	mg/Kg dry	6010B	NB100628019	6/10/10 19:12	HBEL	E96080
Beryllium	0.19	I	0.13	0.54	mg/Kg dry	6010B	NB100628019	6/10/10 19:12	HBEL	E96080
Cadmium	60.9		0.09	0.36	mg/Kg dry	6010B	NB100628019	6/10/10 19:12	HBEL	E96080
Chromium	53.6		0.23	0.93	mg/Kg dry	6010B	NB100628019	6/10/10 19:12	HBEL	E96080
Copper	1040		1.83	7.31	mg/Kg dry	6010B	NB100628019	6/16/10 18:18	HBEL	E96080
Lead	487		0.39	1.56	mg/Kg dry	6010B	NB100628019	6/10/10 19:12	HBEL	E96080
Nickel	23.1		0.26	1.02	mg/Kg dry	6010B	NB100628019	6/10/10 19:12	HBEL	E96080
Selenium	0.83	U	0.83	3.31	mg/Kg dry	6010B	NB100628019	6/10/10 19:12	HBEL	E96080
Silver	4.63		0.13	0.54	mg/Kg dry	6010B	NB100628019	6/10/10 19:12	HBEL	E96080
Thallium	2.19	U	2.19	8.77	mg/Kg dry	6010B	NB100628019	6/10/10 19:12	HBEL	E96080
Zinc	4750		134	536	mg/Kg dry	6010B	NB100628019	6/10/10 19:12	HBEL	E96080

Sanders Laboratories
Environmental Testing Services

ASH COMPOSITE WORKSHEET

Monthly Composite # 1 Date: 4-1-10 Start Time: 0935 Finish Time: 1335

Field ID # LWTE040110 Discarded Residue weight: 26 LBS Size: .5" - 2" Type: METAL Rock, GLASS

Monthly Composite # 2 Date: 5-6-10 Start Time: 0930 Finish Time: 1330

Field ID # LWTE050610 Discarded Residue weight: 27 LBS Size: .5" - 2" Type: Rock, METAL GLASS

Monthly Composite # 3 Date: 6-3-10 Start Time: 0935 Finish Time: 1325

Field ID # LWTE060310 Discarded Residue weight: 26 LBS Size: .5" - 2" Type: Rock, METAL GLASS

Lab ID. For Hg sample N1006073

- Collect ash samples of approximately 1-lb @ 10 minute intervals over a 4 hour period.
- The sample will be stored in a covered pre-cleaned plastic bucket during sampling.
- Mix the composite sample well with a pre-cleaned spoon or spatula, and then pass through a 3/8" sieve. Non- crushable residue is weighed and discarded.
- Place ¼ of the composited, mixed and sieved ash sample into a large sample container. Lable with the following information: Field ID. #, sample location, date and time of sampling, collectors name and analyses to be performed (As, Sb, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag , Tl, Zn). Discard the remaining ¾.

Note: Before adding the third monthly composite to the 2 previous monthly composites, aliquot a portion for Mercury analyses. Assign this a separate sample number.

Quarterly Composite

Date & Time Composite Prepared 6-7-10 / 0900 Lab ID # N1006074

- Combine the three monthly composites, mix well.
- Discard ½ the mixture. Divide the remaining composite into two equal portions. Archive one portion for possible future testing. The other portion will be analyzed for the Priority Pollutant Metals listed above.

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Sanders Laboratories INC.
Environmental Testing Services

CHAIN-OF-CUSTODY RECORD

PROJECT # N1006074

Page 1 of 1

Client COVANTA
Address 10500 Buckingham Rd.
Ft. Myers, Florida 33905
Phone 239.337.2200 Fax

Report To: Mike Duff
Bill To:
P.O. #
Preservative: HCl = H, HNO_3 = N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Project Name: QRT. Composite
Project Location: Ash Belt
Customer Type:
Kit #
REQUESTED DUE DATE: 6/15/10

Sampled By (PRINT) Hilary Crook
Sampler Signature

Matrix	SAMPLE DESCRIPTION	Sample DATE	Sample TIME	Sample TYPE	PRESERVATIVES pH	PRESERVATIVES ICE	ANALYSES REQUEST As, Sb, Ba, Cd, Cr, Cu, Pb, Ni, Se, Ag, Tl, Zn	Sample ID #
	4.1.10 4 hr. comp. $9^{35}-13^{35}$	4.1.10		C			✓ ✓ ✓	-01A
	5.6.10 4 hr. comp. $9^{30}-13^{30}$	5.6.10		C				
	6.3.10 4 hr. comp $9^{35}-13^{35}$	6.3.10		C				

Bottle Lot #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
		6.7.10	14[illegible]		6/7/10	1400

COMMENTS:

OKAY TO RUN AS IS..
CLIENT INITIAL:
SAMPLES ON ICE Yes (No)

THIRD QUARTER 2010

Sanders Laboratories
Environmental Testing Services

Laboratory Test Report

Lab Project #: N1009054

Page 1 of 4

All subsequent pages are identified by: N1009054 . These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your **Laboratory Contact**:

Jeff Walsh

Client: Covanta Energy

10500 Buckingham Rd.
Suite 400
Fort Myers, FL 33905

Phone: 1-239-337-2200
Fax: 1-239-337-2510
E-mail:

Project Name: Ash Belt

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.
I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
J: Estimated Value.
J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
K: Off scale low, actual value is known to be less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Y: The laboratory analysis was from an improperly preserved sample.
Z: Too many colonies were present for accurate counting.
HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.

Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of $25.00 per report. Reports older than 1 year are available for a fee of $50.00 per report. Copies will be provided within 1 week of the time of the request.

Approved by:

Comments:

Andrew Konopacki
Operations Manager

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Covanta Energy

Client Project: Ash Belt

Lab Project: N1009054

Report Date: 09/23/10

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1009054-01	4 Hr. Ash Composite	Other	composite	9/7/10 10:00	9/2/10 13:50

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Mercury, Total (solid)	0.01	U	0.01	0.03	mg/Kg dry	EPA7470	NB100923044	9/21/10 13:25	HBEL	E96080
pH (solid)	11.64	Q	0.01	0.01	std units	EPA9045	NB100910002	9/9/10 13:10	AS	E84380
Total Solids %	83.9		0.01	0.01	%	SM2540G	NB100909029	9/7/10 16:00	AS	E84380

Sanders Laboratories
Environmental Testing Services

ASH COMPOSITE WORKSHEET

Monthly Composite # 1 Date: 9.1.10 Start Time: 08^20 Finish Time: 12^10

Field ID #WTE090110 Discarded Residue weight: 23 LBS Size: .5"-2" Type: Rock, glass metal

Monthly Composite # 2 Date: 8.5.10 Start Time: 0930 Finish Time: 1320

Field ID #WTE080510 Discarded Residue weight: 25 LBS Size: .5"-2" Type: Rock, glass metal

Monthly Composite # 3 Date: 9.2.10 Start Time: 1000 Finish Time: 1350

Field ID #WTE090210 Discarded Residue weight: 28 LBS Size: .5"-2" Type: Rock, glass metal

Lab ID. For Hg sample N1009054

- Collect ash samples of approximately 1-lb @ 10 minute intervals over a 4 hour period.
- The sample will be stored in a covered pre-cleaned plastic bucket during sampling.
- Mix the composite sample well with a pre-cleaned spoon or spatula, and then pass through a 3/8" sieve. Non- crushable residue is weighed and discarded.
- Place ¼ of the composited, mixed and sieved ash sample into a large sample container. Lable with the following information: Field ID. #, sample location, date and time of sampling, collectors name and analyses to be performed (As, Sb, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag , Tl, Zn). Discard the remaining ¾.

Note: Before adding the third monthly composite to the 2 previous monthly composites, aliquot a portion for Mercury analyses. Assign this a separate sample number.

Quarterly Composite

Date & Time Composite Prepared 9.7.10 0900 Lab ID # N1009055

- Combine the three monthly composites, mix well.
- Discard ½ the mixture. Divide the remaining composite into two equal portions. Archive one portion for possible future testing. The other portion will be analyzed for the Priority Pollutant Metals listed above.

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Sanders Laboratories INC.
Environmental Testing Services

CHAIN-OF-CUSTODY RECORD

PROJECT # W100905A

Page 1 of 1

Client COVANTA ENERGY
Address 10500 Buckingham Rd.
Ft. Myers, FL 33905
Phone _____ Fax _____

Report To: Mike DUFF
Bill To: _____
P.O. # _____
Preservative: HCl = H, HNO_3 = N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Project Name: Ash Belt
Project Location: Ft. Myers
Customer Type: _____
Kit # FOR LAB USE ONLY
REQUESTED DUE DATE: 9-15-10

Sampled By (PRINT) SHALWA ODEGARD
Sampler Signature

Matrix	SAMPLE DESCRIPTION	Sample DATE	Sample TIME	Sample TYPE	PRESERVATIVES pH	PRESERVATIVES ICE	ANALYSES REQUEST Pb	As	Hg	Sample ID #
	4 HR Ash Composite	9.2.10	1000-1350				1	1	1	1A

Bottle Lot #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
9-0366506		9.2.10	1000		9710	1000

COMMENTS: 10.8

OKAY TO RUN AS IS...
CLIENT INITIAL:
SAMPLES ON ICE Yes (No)

Sanders Laboratories
Environmental Testing Services

Laboratory Test Report

Lab Project #: N1009055

Page 1 of 4

All subsequent pages are identified by: N1009055 . These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your **Laboratory Contact:**

Jeff Walsh

Client: Covanta Energy

10500 Buckingham Rd.
Suite 400
Fort Myers, FL 33905

Phone: 1-239-337-2200
Fax: 1-239-337-2510
E-mail:

Project Name: WTE Ash Belt Composite

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.
I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
J: Estimated Value.
J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
K: Off scale low, actual value is known to be less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Y: The laboratory analysis was from an improperly preserved sample.
Z: Too many colonies were present for accurate counting.
HACH results may not meet NELAC standards.

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Test results meet all the requirements of the NELAC standards, unless otherwise noted.

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Comments:

Approved by:

Andrew Konopacki
Operations Manager

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Covanta Energy

Client Project: WTE Ash Belt Composite

Lab Project: N1009055

Report Date: 09/24/10

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1009055-01	4 Hr. Ash Composite/3rd Qrt. Comp	Other	composite	9/7/10 10:00	9/2/10 13:50

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Antimony	115		1.01	4.05	mg/Kg dry	6010B	NB100924006	9/20/10 12:51	HBEL	E96080
Arsenic	60.7		0.76	3.03	mg/Kg dry	6010B	NB100924006	9/20/10 12:51	HBEL	E96080
Beryllium	0.38	I	0.21	0.86	mg/Kg dry	6010B	NB100924006	9/20/10 12:51	HBEL	E96080
Cadmium	80.9		0.15	0.61	mg/Kg dry	6010B	NB100924006	9/20/10 12:51	HBEL	E96080
Chromium	64.5		0.38	1.52	mg/Kg dry	6010B	NB100924006	9/20/10 12:51	HBEL	E96080
Copper	632		0.29	1.16	mg/Kg dry	6010B	NB100924006	9/20/10 12:51	HBEL	E96080
Lead	518		0.63	2.53	mg/Kg dry	6010B	NB100924006	9/20/10 12:51	HBEL	E96080
Nickel	29.1		0.42	1.67	mg/Kg dry	6010B	NB100924006	9/20/10 12:51	HBEL	E96080
Selenium	4.17	U	4.17	16.7	mg/Kg dry	6010B	NB100924006	9/20/10 12:51	HBEL	E96080
Silver	6.19		0.21	0.86	mg/Kg dry	6010B	NB100924006	9/20/10 12:51	HBEL	E96080
Thallium	0.16	I	0.15	0.61	mg/Kg dry	6010B	NB100924006	9/23/10 17:46	HBEL	E96080
Total Solids %	79.1		0.01	0.01	%	SM2540G	NB100909029	9/7/10 16:00	AS	E84380
Zinc	4300		105	420	mg/Kg dry	6010B	NB100924006	9/20/10 16:45	HBEL	E96080

Sanders Laboratories
Environmental Testing Services

ASH COMPOSITE WORKSHEET

Monthly Composite # 1 — Date: 9.1.10 Start Time: 0920 Finish Time: 1210

Field ID # WTE090110 — Discarded Residue weight: 23 LBS Size: .5"-2" Type: Rock, glass, metal

Monthly Composite # 2 — Date: 8.5.10 Start Time: 0930 Finish Time: 1320

Field ID # WTE080510 — Discarded Residue weight: 25 LBS Size: .5"-2" Type: Rock, glass, metal

Monthly Composite # 3 — Date: 9.2.10 Start Time: 1000 Finish Time: 1350

Field ID # WTE090210 — Discarded Residue weight: 28 LBS Size: .5"-2" Type: Rock, glass, metal

Lab ID. For Hg sample N1009054

- Collect ash samples of approximately 1-lb @ 10 minute intervals over a 4 hour period.
- The sample will be stored in a covered pre-cleaned plastic bucket during sampling.
- Mix the composite sample well with a pre-cleaned spoon or spatula, and then pass through a 3/8" sieve. Non- crushable residue is weighed and discarded.
- Place ¼ of the composited, mixed and sieved ash sample into a large sample container. Lable with the following information: Field ID. #, sample location, date and time of sampling, collectors name and analyses to be performed (As, Sb, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag , Tl, Zn). Discard the remaining ¾.

Note: Before adding the third monthly composite to the 2 previous monthly composites, aliquot a portion for Mercury analyses. Assign this a separate sample number.

Quarterly Composite

Date & Time Composite Prepared 9.7.10 0900 Lab ID # N1009055

- Combine the three monthly composites, mix well.
- Discard ½ the mixture. Divide the remaining composite into two equal portions. Archive one portion for possible future testing. The other portion will be analyzed for the Priority Pollutant Metals listed above.

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Sanders Laboratories INC.
Environmental Testing Services

CHAIN-OF-CUSTODY RECORD

PROJECT # N1009055

Page 1 of 1

Client COVANTA Energy
Address 10500 Buckingham Rd.
Ft. Myers, FL 33905
Phone _____ Fax _____

Report To: Mike Duff
Bill To: _____
P.O. # _____
Preservative: HCl = H, HNO_3 = N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Project Name: Ash Belt Comp.
Project Location: Ft. Myers
Customer Type: _____
Kit # FOR LAB USE ONLY
REQUESTED DUE DATE: 9-15-10

Sampled By (PRINT) SHALINA ODEGARD
Sampler Signature

Matrix	SAMPLE DESCRIPTION	Sample DATE	Sample TIME	Sample TYPE	PRESERVATIVES pH	PRESERVATIVES ICE	ANALYSES REQUEST Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Ag, Tl, Zn	Sample ID #
	4 hr Ash composite	7.1.10	820-1210				1	1A
	4 hr Ash composite	8.5.10	930-1320				1	
	4 hr Ash composite	9.2.10	1000-1350				1	
	3RD QRT. Comp							

Bottle Lot #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
9-032-SOL		9.7.10	1000		9-7-10	1600

COMMENTS:

OKAY TO RUN AS IS...
CLIENT INITIAL: DS

SAMPLES ON ICE
Yes (No)

FOURTH QUARTER 2010

Sanders Laboratories
Environmental Testing Services

Laboratory Test Report

Lab Project #: N1012080

Page 1 of 4

All subsequent pages are identified by: N1012080. These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Client: Covanta Energy

10500 Buckingham Rd.
Suite 400
Fort Myers, FL 33905

Phone: 1-239-337-2200
Fax: 1-239-337-2510
E-mail:

Project Name: Ash Belt

Questions regarding this report should be directed to your **Laboratory Contact**:

Jeff Walsh

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.
I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
J: Estimated Value.
J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
K: Off scale low, actual value is known to be less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Y: The laboratory analysis was from an improperly preserved sample.
Z: Too many colonies were present for accurate counting.
HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

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Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

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Comments:

Approved by:

Andrew Konopacki
Operations Manager

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Covanta Energy

Client Project: Ash Belt

Lab Project: N1012080

Report Date: 12/23/10

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1012080-01	12-2-10 4 Hr Comp.	Other	grab	12/6/10 12:40	12/2/10 13:15

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Mercury, Total (solid)	0.01	U	0.01	0.04	mg/Kg dry	EPA7470	NB101221057	12/17/10 17:20	HBEL	E96080
pH (solid)	11.9	Q	0.01	0.01	std units	EPA9045	NB101207033	12/7/10 12:30	AS	E84380
Total Solids %	80.2		0.01	0.01	%	SM2540G	NB101213004	12/7/10 16:20	AS/SE	E84380

Sanders Laboratories
Environmental Testing Services

ASH COMPOSITE WORKSHEET

Monthly Composite # 1 Date: 10.7.10 Start Time: 0945 Finish Time: 1335

Field ID # WTE100710 Discarded Residue weight: 31 LBS Size: 5" to 2" Type: Rock GLASS METAL

Monthly Composite # 2 Date: 11-4-10 Start Time: 1030 Finish Time: 1420

Field ID # WTE110410 Discarded Residue weight: 32 LBS Size: 5" & 2" Type: Rock, Glass, metal

Monthly Composite # 3 Date: 12-2-10 Start Time: 0925 Finish Time: 1315

Field ID # WTE120210 Discarded Residue weight: 24 LBS Size: 5" & 2" Type: Rock, Glass, metal

Lab ID. For Hg sample N1012080

- Collect ash samples of approximately 1-lb @ 10 minute intervals over a 4 hour period.
- The sample will be stored in a covered pre-cleaned plastic bucket during sampling.
- Mix the composite sample well with a pre-cleaned spoon or spatula, and then pass through a 3/8" sieve. Non- crushable residue is weighed and discarded.
- Place ¼ of the composited, mixed and sieved ash sample into a large sample container. Lable with the following information: Field ID. #, sample location, date and time of sampling, collectors name and analyses to be performed (As, Sb, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag , Tl, Zn). Discard the remaining ¾.

Note: Before adding the third monthly composite to the 2 previous monthly composites, aliquot a portion for Mercury analyses. Assign this a separate sample number.

Quarterly Composite

Date & Time Composite Prepared 12-6-10 1130 Lab ID # N1012079

- Combine the three monthly composites, mix well.
- Discard ½ the mixture. Divide the remaining composite into two equal portions. Archive one portion for possible future testing. The other portion will be analyzed for the Priority Pollutant Metals listed above.

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Sanders Laboratories INC.
Environmental Testing Services

CHAIN-OF-CUSTODY RECORD

PROJECT # N1012080

Page _____ of _____

Client COVANTA ENERGY
Address 10500 Buckingham Rd
Ft. Myers, FL 33905
Phone _____ Fax _____

Report To: Mike Duff
Bill To: Same
P.O. # _____
Preservative: HCl = H, HNO_3 = N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Project Name: Ash Belt
Project Location: Ft. Myers
Customer Type: _____
Kit # _____
REQUESTED DUE DATE: 12/14/10

Sampled By (PRINT) Hilary Crook
Sampler Signature

Matrix	SAMPLE DESCRIPTION	Sample DATE	Sample TIME	Sample TYPE	PRESERVATIVES pH	PRESERVATIVES ICE	ANALYSES REQUEST	Sample ID #
	12.2.10 4 hr comp.	12.2.10	1345	G			T T	-01A

Bottle Lot #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
9-036-006		12.6.10	1240		12/6/10	1240

COMMENTS:

OKAY TO RUN AS IS..
CLIENT INITIAL:

SAMPLES ON ICE
Yes No

1050 Endeavor Ct., Nokomis, FL 34275-3623 • (941)488-8103 • FAX 484-6774 • 10090 Bavaria Rd., Fort Myers, FL 33913 • (239) 590-0337 • FAX (239) 590-0536

Sanders Laboratories
Environmental Testing Services

Laboratory Test Report

Lab Project #: N1012079

Page 1 of 4

All subsequent pages are identified by: N1012079. These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your **Laboratory Contact:**

Jeff Walsh

Client: Covanta Energy

10500 Buckingham Rd.
Suite 400
Fort Myers, FL 33905

Phone: 1-239-337-2200
Fax: 1-239-337-2510
E-mail:

Project Name: Ash Belt

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.
I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
J: Estimated Value.
J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
K: Off scale low, actual value is known to be less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Y: The laboratory analysis was from an improperly preserved sample.
Z: Too many colonies were present for accurate counting.
HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.

Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of $25.00 per report. Reports older than 1 year are available for a fee of $50.00 per report. Copies will be provided within 1 week of the time of the request.

Comments:

Approved by:

Andrew Konopacki
Operations Manager

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Covanta Energy
Client Project: Ash Belt

Page: Page 1 of 1
Lab Project: N1012079
Report Date: 01/03/11

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
N1012079-01	4th Qrt. Comp. Sample	Other	composite	12/6/10 12:40	12/6/10 11:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Antimony	188		0.86	3.45	mg/Kg dry	6010B	NB101230015	12/23/10 13:48	HBEL	E96080
Arsenic	85.1		0.64	2.55	mg/Kg dry	6010B	NB101230015	12/23/10 13:48	HBEL	E96080
Beryllium	0.34	I	0.18	0.70	mg/Kg dry	6010B	NB101230015	12/23/10 13:48	HBEL	E96080
Cadmium	138		0.13	0.50	mg/Kg dry	6010B	NB101230015	12/23/10 13:48	HBEL	E96080
Chromium	76.4		0.33	1.30	mg/Kg dry	6010B	NB101230015	12/23/10 13:48	HBEL	E96080
Copper	2000		2.50	10.0	mg/Kg dry	6010B	NB101230015	12/23/10 16:51	HBEL	E96080
Lead	751		5.38	21.5	mg/Kg dry	6010B	NB101230015	12/23/10 16:51	HBEL	E96080
Nickel	53.8		0.36	1.45	mg/Kg dry	6010B	NB101230015	12/23/10 13:48	HBEL	E96080
Selenium	1.88	I	1.14	4.56	mg/Kg dry	6010B	NB101230015	12/23/10 13:48	HBEL	E96080
Silver	7.88		0.18	0.70	mg/Kg dry	6010B	NB101230015	12/23/10 13:48	HBEL	E96080
Thallium	7.51	I	3.00	12.0	mg/Kg dry	6010B	NB101230015	12/23/10 13:48	HBEL	E96080
Total Solids %	79.9		0.01	0.01	%	SM2540G	NB101213004	12/7/10 16:20	AS/SE	E84380
Zinc	7510		3.00	12.0	mg/Kg dry	6010B	NB101230015	12/23/10 16:51	HBEL	E96080

Sanders Laboratories
Environmental Testing Services

ASH COMPOSITE WORKSHEET

Monthly Composite # 1 Date: 10-7-10 Start Time: 0945 Finish Time: 1335

Field ID # WTE100710 Discarded Residue weight: 31 LBS Size: .5" TO 2" Type: ROCK, GLASS, METAL

Monthly Composite # 2 Date: 11-4-10 Start Time: 1030 Finish Time: 1420

Field ID # WTE110410 Discarded Residue weight: 32 LBS Size: .5" & 2" Type: Rock, Glass, metal

Monthly Composite # 3 Date: 12-2-10 Start Time: 0925 Finish Time: 1315

Field ID # WTE120210 Discarded Residue weight: 24 LBS Size: .5" & 2" Type: Rock, Glass, metal

Lab ID. For Hg sample N1012080

- Collect ash samples of approximately 1-lb @ 10 minute intervals over a 4 hour period.
- The sample will be stored in a covered pre-cleaned plastic bucket during sampling.
- Mix the composite sample well with a pre-cleaned spoon or spatula, and then pass through a 3/8" sieve. Non- crushable residue is weighed and discarded.
- Place ¼ of the composited, mixed and sieved ash sample into a large sample container. Lable with the following information: Field ID. #, sample location, date and time of sampling, collectors name and analyses to be performed (As, Sb, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag , Tl, Zn). Discard the remaining ¾.

Note: Before adding the third monthly composite to the 2 previous monthly composites, aliquot a portion for Mercury analyses. Assign this a separate sample number.

Quarterly Composite

Date & Time Composite Prepared 12-6-10 11:30 Lab ID # N1012079

- Combine the three monthly composites, mix well.
- Discard ½ the mixture. Divide the remaining composite into two equal portions. Archive one portion for possible future testing. The other portion will be analyzed for the Priority Pollutant Metals listed above.

1050 Endeavor Ct. • Nokomis, FL 34275 • Phone: (941) 488-8103 • (800) 255-3108 • Fax: (941) 484-6774

Sanders Laboratories INC.
Environmental Testing Services

CHAIN-OF-CUSTODY RECORD

PROJECT # N10120-79

Page 1 of 1

Client COVANTA Energy
Address 10500 Buckingham Rd
FT. Myers, FL 33905
Phone _____ Fax _____

Report To: Mike Duff
Bill To: Same
P.O. # _____
Preservative: HCl = H, HNO_3 = N, $Na_2S_2O_3$ = ST, H_2SO_4 = S, NaOH = SH, NH_4Cl = NH

Project Name: Ash Belt
Project Location: FT. Myers
Customer Type: _____
Kit # FOR LAB USE ONLY
REQUESTED DUE DATE: 12/14/10

Sampled By (PRINT) Hilary Crook
Sampler Signature _____

Matrix	SAMPLE DESCRIPTION	DATE	TIME	TYPE	PRESERVATIVES pH	PRESERVATIVES ICE	ANALYSES REQUEST: Sb As Ba Be Cd Cr Cu Pb Ni Ag Tl Zn Hg Anions	Sample ID #
	4TH QRT. Comp. Sample	12.7.10	11	C			- - - - -	-01A
	10.7.10 Ash Belt ↓							
	11.4.10							
	12.2.10							

Sample ID

Bottle Lot #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
9-036-006		12.6.10	12		12/6/10	1240

COMMENTS:

OKAY TO RUN AS IS...
CLIENT INITIAL:

SAMPLES ON ICE
Yes (No)

1050 Endeavor Ct., Nokomis, FL 34275-3623 • (941)488-8103 • FAX 484-6774 • 10090 Bavaria Rd., Fort Myers, FL 33913 • (239) 590-0337 • FAX (239) 590-0536