Roanoke Valley Energy Facility
Westmoreland Partners, LLC

RECEIVED NCDENR OCT - 8 2013 SOLID WASTE SECTION

October 2, 2013

Mr. Edward Mussler
Permitting Supervisor – Solid Waste Section
North Carolina Department of Environment and Natural Resources
Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

Subject: **Coal Ash to Halifax County Landfill Ash Monocell Site**
Permit # 4204-INDUS-1994
Westmoreland Partners – Roanoke Valley Energy Facility
Weldon, North Carolina 27890
Bottom Ash and Fly Ash TCLP sample results for the 3rd Quarter of 2013

Dear Mr. Mussler:

On behalf of Westmoreland Partners, LLC, I would like to submit the attached first quarter of 2013 Toxicity Characteristic Leaching Procedure (TCLP) fly ash and bottom ash sample results of the ash being sent to the Halifax County Landfill Ash Monocell for the current year. The ash samples were collected on September 9th and 10th of 2013 and analyzed by Meritech Environmental Laboratories, Inc.

If you have any further questions please contact me at (252) 536-3200

Respectfully,

Glenn Outland
Fuels Manager
Roanoke Valley Energy Facility

Cc: Mary Whaley, NC DENR
Donald R. Keisling, Westmoreland Partners, LLC
Larry Garris, Halifax County - Solid Waste
Eric Woods, NAES

MERITECH, INC.

Environmental Laboratories

Laboratory Cerification No. 165

Contact: Chris E. Hews
Client: Westermoreland Partners, LLC
290 Power Place
Weldon, NC 27890

Report Date: 9/27/2013
NPDES#:
Project: ***Roanoke Valley***
Date Sample Rcvd: 9/11/2013

TCLP Metals

Meritech Work Order # 091113175 Sample: Rova 1 Fly Ash 9/10/13

Parameter	Result	Analysis	Reporting Limit	Method
Arsenic	1.84 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Barium	12.4 mg/L	9/18/13	0.050 mg/L	EPA 200.7
Cadmium	0.036 mg/L	9/18/13	0.020 mg/L	EPA 200.7
Chromium	0.749 mg/L	9/18/13	0.050 mg/L	EPA 200.7
Lead	0.793 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Mercury	0.02 mg/L	9/17/13	0.02 mg/L	EPA 245.1
Selenium	0.850 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Silver	< 0.050 mg/L	9/18/13	0.050 mg/L	EPA 200.7

TCLP Metals

Meritech Work Order # 091113176 Sample: Rova 1 Bottom Ash 9/9/13

Parameter	Result	Analysis	Reporting Limit	Method
Arsenic	< 0.100 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Barium	1.51 mg/L	9/18/13	0.050 mg/L	EPA 200.7
Cadmium	< 0.020 mg/L	9/18/13	0.020 mg/L	EPA 200.7
Chromium	< 0.050 mg/L	9/18/13	0.050 mg/L	EPA 200.7
Lead	< 0.100 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Mercury	< 0.02 mg/L	9/17/13	0.02 mg/L	EPA 245.1
Selenium	< 0.100 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Silver	< 0.050 mg/L	9/18/13	0.050 mg/L	EPA 200.7

MERITECH, INC.

Environmental Laboratories

Laboratory Cerification No. 165

Contact: Chris E. Hews
Client: Westermoreland Partners, LLC
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Weldon, NC 27890

Report Date: 9/27/2013
NPDES#:
Project: *Roanoke Valley*
Date Sample Rcvd: 9/11/2013

TCLP Metals

Meritech Work Order # 091113177 Sample: Rova 2 Fly Ash 9/9/13

Parameter	Result	Analysis	Reporting Limit	Method
Arsenic	1.07 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Barium	8.90 mg/L	9/18/13	0.050 mg/L	EPA 200.7
Cadmium	0.022 mg/L	9/18/13	0.020 mg/L	EPA 200.7
Chromium	0.367 mg/L	9/18/13	0.050 mg/L	EPA 200.7
Lead	0.480 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Mercury	0.02 mg/L	9/17/13	0.02 mg/L	EPA 245.1
Selenium	0.560 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Silver	< 0.050 mg/L	9/18/13	0.050 mg/L	EPA 200.7

TCLP Metals

Meritech Work Order # 091113178 Sample: Rova 2 Bottom Ash 9/9/13

Parameter	Result	Analysis	Reporting Limit	Method
Arsenic	< 0.100 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Barium	3.14 mg/L	9/18/13	0.050 mg/L	EPA 200.7
Cadmium	< 0.020 mg/L	9/18/13	0.020 mg/L	EPA 200.7
Chromium	0.051 mg/L	9/18/13	0.050 mg/L	EPA 200.7
Lead	< 0.100 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Mercury	< 0.02 mg/L	9/17/13	0.02 mg/L	EPA 245.1
Selenium	0.100 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Silver	< 0.050 mg/L	9/18/13	0.050 mg/L	EPA 200.7

I hereby certify that I have reviewed and approve these data.

Laboratory Representative

642 Tamco Road * Reidsville, NC 27320
(336) 342-4748 Ph * (336) 342-1522 Fax

Chain of Custody Record (COC)

MERITECH INC.
Environmental Laboratories
A Division of Water Technology and Control, Inc.

642 Tamco Rd
Reidsville, NC
27320

Phone 1-336-342-4748
Fax: 1-336-342-1522
Email: wtclab@bellsouth.net
Web Site: www.meritech-labs.com

Client: Westmoreland Partners LLC

Address: 290 Power Place
Weldon, NC 27890

Attention: Chris E. Hews Sr.

NPDES #: NCS000229
Phone: (252) 536-3200
Fax: (252) 536-4448
Email: chris.hews@pwrops.com
Project: Roanoke Valley Energy Facility
PO #:

Turn Around Time*: Std (10 days) ■ | 3 - 5 Day ☐ | 24 - 48 Hr ☐

Person Taking Sample (Signature): Ken Wood

Sample Location/ID #	Sampling Dates & Times START Date	START Time	END Date	END Time	Comp? Grab?	# of Conts.	Tests Required	Lab Use Only: On Ice?	Lab Use Only: pH OK? C12 OK?
Rova 1 Fly Ash	9-10-13	2:30 pm	9:10-13	2:35 Am	Grab	1 gal. bag	TCLP for Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver 175	NA	
Rova 1 Bottom Ash	9-9-13	1:00pm	9-9-13	1:10 pm	Grab	1gal. bag	TCLP for Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver 176		
Rova 2 Fly Ash	9-9-13	2:30 pm	9-9-13	2:35 pm	Grab	1gal. bag	TCLP for Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver 177		
Rova 2 Bottom Ash	9-9-13	1:30pm	9-9-13	2:00 pm	Grab	1gal. bag	TCLP for Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver 178		

Method of Shipment:

- ☐ UPS
- ☐ Fed Ex
- ☐ Hand Delivery
- ☐ Other Pick-up

Comments:
E-mail results to: chris.hews@pwrops.com

Will these results be used for regulatory purposes? Yes ☐ No ☐

**RUSH work must be approved prior to submitting samples.*

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Ken Wood	9-11-13	10:35 Am		9-11-13	1035
	9/11/13	1545			
			Received at lab by:	9/11/13	1545

MERITECH, INC.

Environmental Laboratories

Laboratory Cerification No. 165

Contact: Chris E. Hews
Client: Westermoreland Partners, LLC
290 Power Place
Weldon, NC 27890

Report Date: 10/1/2013
NPDES#:
Project: Roanoke Valley Energy
Date Sample Rcvd: 9/11/2013
P.O.# 2110122

TCLP Metals

Meritech Work Order # 091113179 Sample: Sludge Drying Area 9/9/13

Parameter	Result	Analysis	Reporting Limit	Method
Arsenic	0.228 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Barium	2.25 mg/L	9/18/13	0.050 mg/L	EPA 200.7
Cadmium	< 0.020 mg/L	9/18/13	0.020 mg/L	EPA 200.7
Chromium	0.266 mg/L	9/18/13	0.050 mg/L	EPA 200.7
Lead	0.253 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Mercury	< 0.02 mg/L	9/17/13	0.02 mg/L	EPA 245.1
Selenium	< 0.100 mg/L	9/18/13	0.100 mg/L	EPA 200.7
Silver	< 0.050 mg/L	9/18/13	0.050 mg/L	EPA 200.7

I hereby certify that I have reviewed and approve these data.

Laboratory Representative

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(336) 342-4748 Ph * (336) 342-1522 Fax

Chain of Custody Record (COC)

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Email: wtclab@bellsouth.net
Web Site: www.meritech-labs.com

Client: Westmoreland Partners, LLC

Address: 290 Power Place
Weldon, NC 27890

Attention: Chris E. Hews Sr.

NPDES #:

Phone: (252) 536-3200
Fax: (252) 536-4448
Email: chris.hews@pwrops.com
Project: Roanoke Valley Energy Facility
PO #: 2110122

Turn Around Time*

Std (10 days)	3 - 5 Day	24 - 48 Hr
■	☐	☐

Person Taking Sample (Signature): Ken Wood

Sample Location/ID #	Sampling Dates & Times START Date	START Time	END Date	END Time	Comp? Grab?	# of Conts.	Tests Required	Lab Use Only: On Ice?	Lab Use Only: pH OK? C12 OK?
Sludge Drying area	9-9-13	2:10 pm	9-9-13	2:15 pm	Grab	1 Gallon Plastic Bag	TCLP for Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium and Silver 1D	NA	

Method of Shipment:

- ☐ UPS
- ☐ Fed Ex
- ☐ Hand Delivery
- ☐ Other _____

Comments:
For Regulatory on disposal at Halifax County Landfill.

Will these results be used for regulatory purposes?
Yes [Yes - X] No [ ]

**RUSH work must be approved prior to submitting samples.*

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Ken Wood	9-11-13	10:35 AM	[signature]	9-11-13	1035
[signature]	9/11/13	1545	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at lab by: [signature]	Date: 9/11/13	Time: 1545