MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Suite 605 • Baltimore, Maryland 21230-1719
410-537-3375 • 800-633-6101 x3375 • www.mde.state.md.us
Land Management Administration • Solid Waste Program

Coal Combustion Byproducts (CCB) Annual Generator Tonnage Report

Instructions for Calendar Year 2010

The following is general information relating to the requirement for reporting quantities of coal combustion byproducts that were managed in the State of Maryland during calendar year 2010. Please answer the questions on the form provided, attaching additional information and any requested supplemental information to the back of the form.

I. Background. This requirement that generators of coal combustion byproducts (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.

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II. General Information and Applicability.

A. Definitions. Coal combustion byproducts 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."*

B. Applicability. **If you or your company meet 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.

III. Required Information. The following information must be provided to the Department by March 1, 2010:

A. Contact information:

Facility Name: Morgantown Generating Station

Name of Permit Holder: GenOn Mid-Atlantic, LLC

Facility Address: 12620 Crain Highway
Street

Facility Address: Newburg MD. 20664
City State Zip

County: Charles

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 301-843-4600 Facility Fax No.: 301-843-4552

Contact Name: Elizabeth A. Spitzer

Contact Title: Environmental Analyst

Contact Address: 8301 Professional Place, Suite 230
Street

Contact Address: Landover MD. 20785
City State Zip

Contact Email: elizabeth.spitzer@GenOn.com

Contact Telephone No.: 301-955-9051 Contact Fax No.: 301-955-9015

For questions on how to complete this form, please call Mr. Edward Dexter, Administrator, Solid Waste Program at 410-537-3318.

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

See Attachment A

C. The annual volume of coal combustion byproducts generated during the last calendar year, including an identification of the different types of coal combustion byproducts generated and the volume of each type generated. If the space provided is insufficient, please attach additional pages in a similar format:

Table I: Volume of CCBs Generated for Previous Calendar Year:

Reporting Year	Volume of CCB Type: Flyash	Volume of CCB Type: Bottom Ash	Volume of CCB Type: On-Spec Gypsum	Volume of CCB Type: Off-Spec Gypsum	Volume of CCB Type: WWTP Fines
2010	143,904.8 tons	42,983.0 tons	229,948.2 tons	4347.1 tons	2658.8 tons

Additional notes:

CCBs reported in dry short tons.
*WWTP Fines represent fines from the Flue Gas Desulfurization's Waste Water Treatment.

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

E. Copies of all laboratory reports of all chemical characterizations of the coal combustion byproducts. Please attach this information to the report. See Attachment B.

F. A description of how you disposed of or used your coal combustion byproducts in the last calendar year, identifying:

(a) The types and volume of coal combustion byproducts disposed of or used (if different than described in Paragraph C above), the location of disposal, mine reclamation and use sites, and the type and volume of coal combustion byproducts disposed of or used at each site:

Fly Ash generated in 2010 was 143,904.8 tons of which 31,659.1 tons were sold to SEFA, located in Columbia, SC.; 80,586.7 tons were disposed of at the Brandywine Ash site, located in Prince George's co., MD.; 7,195.2 tons were disposed of at the Faulkner Ash Site, located in Charles Co., MD., and 24,463.8 tons were disposed of at Waste Management's King George Landfill located in King George Co., VA.
Bottom Ash generated in 2010 was to 42,983 tons, of which 17, 193 tons were sold to SEFA, headquartered in Columbia, SC., 14,185 tons were disposed of at the Brandywine Ash Site, located in Prince George's Co., MD.; and 11,605 tons were disposed of at Waste Management's King George Landfill, located in King George Co, VA.
On-Spec Gypsum produced in 2010 was 229,948.2 tons, of which 213,066.6 tons were transported via barge to LaFarge in Buchannan, NY for the manufacture of wallboard and 16,881.6 tons is being stored on site at the Morgantown Generating Station.
Off-Spec Gypsum generated in 2010 was 4337.1 tons, of which 4246.9 tons were transported for disposal at Waste Management's Amelia Landfill in Jetersville, VA, and 90.2 tons are being stored on site at the Morgantown Generating Station.
WWTP Fines generated in 2010 was 2658.8 tons all of which were transported for disposal to Waste Management's Amelia Landfill located in Jetersville, VA.

and (b) The different uses by type and volume of coal combustion byproducts:

Fly Ash:
Volume: 31,659.1 tons sold.
Uses: 25,713.5 tons – Portland Cement
19.0 tons - Grout
5926.6 tons – Supplemental Cementitious Material for Concrete and Concrete Products
Bottom Ash:
Volume: 17,193 tons sold
Uses: 17,193 tons - lightweight aggregate for block and concrete products.
On-Spec Gypsum:
Volume: 213,066.6 tons
Uses: Wallboard
If the space provided is insufficient, please attach additional pages in a similar format. . (Please note that in subsequent years you need only provide the information in Section F for the last calendar year).

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

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

Fly Ash: Anticipate 144,000 tons generated with about 32,000 to be sold to SEFA, located in Columbia, SC., about 82,000 tons to be disposed of at the Brandywine Ash Site in Prince George's County, MD., and 30,000 tons to be disposed of at Waste Management's King George Landfill , located in King George, VA.
Bottom Ash: Anticipate 43,000 tons generated of which 17,000 tons to be sold to SEFA, located in Columbia, SC., 14,000 tons to be disposed of at the Brandywine Ash Site in Prince George's County, MD.; and 12,000 tons to be disposed of at Waste Management's Landfill located in King George Co., VA.
On - Spec Gypsum: 230,000 tons generated of which 213,000 tons to be sent to LaFarge, in Buchanan, NY for the manufacture of wallboard and 17,000 tons tored on site at the Morgantown Station.
WWTP Fines: 2700 tons of fines expected to be generated all of which will be transported to Waste Management's Amelia Landfill in VA.

and (b) The different intended uses by type and volume of coal combustion byproducts.

Flyash: Volume: 32,000 tons sold.
Uses: 26,000 tons – Portland Cement
20 tons - Grout
5980 tons – Supplemental Cementitious Material for Concrete and Concrete Products
Bottom Ash: Volume: 17,000 tons sold
Uses: 17,000 tons - lightweight aggregate for block and concrete products.
On-Spec Gypsum: Volume: 213,066.6 tons
Uses: Wallboard

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

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

Signature	Mark Gouveia, VP-PJM South Operations 202-580-5611 Name, Title, & Telephone No. (Print or Type) mark.gouveia@genon.com Your Email Address	2/17/11 Date

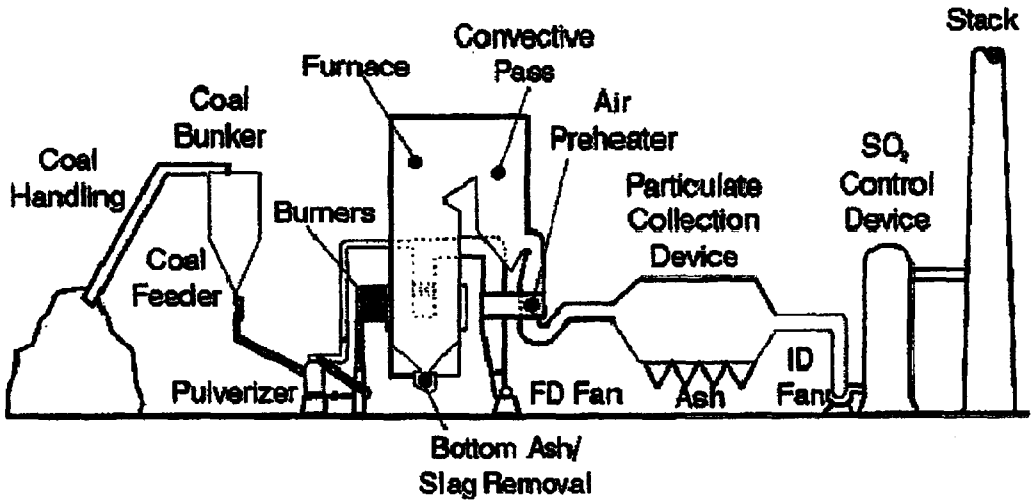
Attachment A

Morgantown Generating Station
12620 Crain Highway,
Newburg, Charles County, MD. 20664
301-843-4600

The Morgantown Generating Station is located on the Potomac River, just south of Rt. 301 at the Harry W. Nice Bridge near the town of Newburg in Charles County, MD. The facility is engaged in the generation of electrical energy for sale. The primary SIC code is 4911. There are two tangentially fired supercritical steam units each firing bituminous coal. Each unit is rated at 640 MWs (base loaded) and each is equipped with a superheater, single reheat, and economizer. Pollution control devices on both units include low NOx burners with Separated Over-Fired Air (SOFA) and Selective Catalytic Reduction (SCR) for control of oxides of nitrogen (NOx); and electrostatic precipitators (ESP) for the control of particulate matter. A Wet Scrubber (FGD) was installed and went in service on both units in late 2009. Units 1 & 2 exhausts through the scrubber stack or, when the FGD is not in service, through separate 700 ft. stacks.

Coal is currently delivered by both rail and by barge. The rail cars are emptied using a rotary dumper, then transferred by conveyor and dravo to either a storage pile or fed directly to the units' bunker. The barge unloading facility consists of a dock, an unloader, a transfer system, and a rail loading system and a rail loading facility. The barge unloading transfer and distribution system is integrated into Morgantown's existing coal handling system.

The illustration below shows a simple schematic diagram for a typical pulverized coal combustion system. The coal is prepared by grinding to a very fine consistency for combustion.



Attachment A

The CCBs currently produced and used are a result of the combustion of pulverized coal.

Ash is formed in the boiler while coal combusts. In general, pulverized coal combustion results in approximately 10% ash, of which 65%–85% is fly ash, and the remainder is coarser bottom ash. Bottom ash is a coarse material and falls to the bottom of the boiler. Fly ash is finer than bottom ash and is carried along the combustion process with flue gas. Particulate collection devices remove fly ash from the flue gas and the collected ash is transferred to one of two ash silos. In 2010, flyash that was not marketed was sent to the Faulkner Ash Site, located approximately six miles north and also in Charles County, MD, the Brandywine Ash Site located 29 miles north in Prince Georges County, and the Waste Management King George Landfill located 23 miles south in King George VA. The bottom ash is conveyed out of the bottom of the boiler via a drag chain conveyor. The bottom ash is then either prepared for sale, or sent to the Brandywine Ash Site, where it is often used in the construction of flyash disposal cells.

Gypsum is a byproduct of SO2 removal by the Flue Gas Desulfurization (FGD) system, commonly known as a scrubber. Morgantown uses wet scrubbers for SO2 removal. Wet scrubbing uses a slurry of limestone alkaline sorbent to remove SO2, - as well as some mercury contaminants - from the air stream. The byproduct - gypsum - is conveyed to a storage dome temporarily and then sent via barge to Buchannan, New York to be made into wallboard. Gyspum that doesn't meet the specifications for wallboard production is either sold for agricultural use or transported for disposal to Waste Management's Amelia Landfill in Virginia. Waste Water Treatment Plant Fines (WWTP Fines) are removed from the Scrubber's WWTP as needed and transported to Waste Management's Amelia Landfill in Virginia for disposal.

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Baltimore Division
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COVER LETTER

Charles Linder
Mirant Corporation-Morgantown
Morgantown Generating Station, 12620 Crain Hwy
Newburg, MD 20664

October 05, 2010
Report No.: 10I1188

RE: Morgantown-Misc Testing

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 09/21/2010 15:45.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

Final report reviewed by:	Mark B. Horan/Laboratory Director	10/5/2010 Report issue date

All samples received in proper condition and results conform to ISO 17025 standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact the Director or Trevor Boyce, President at tboyce@microbac.com or Robert Morgan, Chief Operation Officer, at rmorgan@microbac.com.

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Morgantown	Project: Morgantown-Misc Testing	Report: 10I1188
Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
OFF SPEC. GYPSUM	10I1188-01	Solid	Grab	09/16/2010 00:00	09/21/2010 15:45
WWWTP FILTER CAKE	10I1188-02	Solid	Grab	09/16/2010 00:00	09/21/2010 15:45

Microbac Laboratories, Inc., Baltimore Division

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mark B. Horan, Laboratory Director

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Newburg, MD 20664	Project Manager: Charles Linder	

OFF SPEC. GYPSUM

10I1188-01 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
Wet Chemistry								
% Solids	**75.76**	0.05	% by Weight	092410 1230	092710 0807	LCR	SM (20) 2540G	H1
Mercury, Total by EPA 7000 Series Methods								
Mercury	**0.23**	0.032	mg/kg dry	092710 1147	092810 1611	APS	SW846 7471A	D
Metals, Total by EPA 6000/7000 Series Methods								
Silver	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Aluminum	**470**	16	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Arsenic	ND	6.4	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Barium	**33**	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Beryllium	ND	1.3	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Calcium	**260000**	320	mg/kg dry	092810 1055	093010 0944	APS	EPA 6010B	
Cadmium	ND	0.64	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Cobalt	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Chromium	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Copper	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Iron	**710**	13	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Potassium	**210**	32	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Magnesium	ND	32	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Manganese	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Sodium	ND	640	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Nickel	ND	6.4	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Lead	ND	6.4	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Antimony	ND	13	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Selenium	ND	6.4	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Thallium	ND	13	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Vanadium	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Zinc	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	B3

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Mark B. Horan, Laboratory Director

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OFF SPEC. GYPSUM

10I1188-01 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Extraction by EPA 1311								
Initial pH	6.4		N/A	092310 1443	092410 1608	APS	EPA 1311	
Final pH	4.9		N/A	092310 1443	092410 1608	APS	EPA 1311	
Rotation Time (Hrs)	18		N/A	092310 1443	092410 1608	APS	EPA 1311	
TCLP Extraction Fluid	1.0		N/A	092310 1443	092410 1608	APS	EPA 1311	
TCLP Filterable Solids	0.0		N/A	092310 1443	092410 1608	APS	EPA 1311	
TCLP Metals by 6000/7000 Series Methods								
Silver	ND	0.20	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Chromium	ND	0.20	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	092810 1700	092910 1320	APS	SW846 7471A	D
Lead	ND	0.20	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Polychlorinated Biphenyls by EPA Method 8082								
Aroclor 1016	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Aroclor 1221	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Aroclor 1232	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Aroclor 1242	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Aroclor 1248	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Aroclor 1254	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Aroclor 1260	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Total PCBs	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Surrogate: Tetrachloro-m-xylene		*65.0%*	*20.9-112*	*092310 1100*	*092310 1704*		*EPA 8082*	
Surrogate: Decachlorobiphenyl		*53.0%*	*31.3-109*	*092310 1100*	*092310 1704*		*EPA 8082*	

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Mark B. Horan, Laboratory Director

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OFF SPEC. GYPSUM

10I1188-01 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Volatile Organic Compounds by EPA Method 1311/8260B								
Benzene	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Carbon Tetrachloride	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Chlorobenzene	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Chloroform	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
1,2-Dichloroethane	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
1,1-Dichloroethene	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
2-Butanone (MEK)	ND	1.3	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Tetrachloroethene	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Trichloroethene	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Vinyl chloride	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Surrogate: Dibromofluoromethane		*101%*	*80-120*	*092810 0554*	*092910 0138*		*EPA 1311/EPA 8260B*	
Surrogate: 1,2-Dichloroethane-d4		*89.9%*	*80-120*	*092810 0554*	*092910 0138*		*EPA 1311/EPA 8260B*	
Surrogate: Toluene-d8		*93.2%*	*75-120*	*092810 0554*	*092910 0138*		*EPA 1311/EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.8%*	*60-149*	*092810 0554*	*092910 0138*		*EPA 1311/EPA 8260B*	
TCLP Pesticides by EPA Method 1311/8081A								
gamma-BHC	ND	0.00050	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Heptachlor	ND	0.00050	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Heptachlor epoxide	ND	0.00050	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Endrin	ND	0.0010	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Methoxychlor	ND	0.0050	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Toxaphene	ND	0.030	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Technical Chlordane	ND	0.010	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Surrogate: Tetrachloro-m-xylene		*73.2%*	*30-109*	*092710 1340*	*092810 1751*		*EPA 1311/8081A*	
Surrogate: Decachlorobiphenyl		*96.6%*	*30-112*	*092710 1340*	*092810 1751*		*EPA 1311/8081A*	

Microbac Laboratories, Inc., Baltimore Division

Mark B. Horan, Laboratory Director

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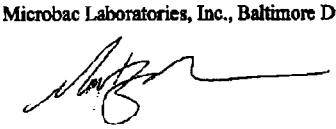
Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

OFF SPEC. GYPSUM

10I1188-01 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Semivolatiles by EPA Method 1311/8270C								
4-Methylphenol, 3-Methylphenol	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
2-Methylphenol	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Total Cresols	ND	0.20	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Pyridine	ND	0.50	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
1,4-Dichlorobenzene	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Hexachloroethane	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Nitrobenzene	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Hexachlorobutadiene	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
2,4,6-Trichlorophenol	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
2,4,5-Trichlorophenol	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
2,4-Dinitrotoluene	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Hexachlorobenzene	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Pentachlorophenol	ND	0.50	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Surrogate: 2-Fluorophenol		*31.2%*	*0.974-78.2*	*092710 1140*	*092910 1546*		*EPA 1311/EPA 8270C*	
Surrogate: Phenol-d5		*21.9%*	*0-57.5*	*092710 1140*	*092910 1546*		*EPA 1311/EPA 8270C*	
Surrogate: Nitrobenzene-d5		*52.9%*	*15.3-131*	*092710 1140*	*092910 1546*		*EPA 1311/EPA 8270C*	
Surrogate: 2-Fluorobiphenyl		*55.7%*	*3.75-142*	*092710 1140*	*092910 1546*		*EPA 1311/EPA 8270C*	
Surrogate: 2,4,6-Tribromophenol		*61.0%*	*12.5-139*	*092710 1140*	*092910 1546*		*EPA 1311/EPA 8270C*	
Surrogate: Terphenyl-d14		*62.0%*	*16.6-136*	*092710 1140*	*092910 1546*		*EPA 1311/EPA 8270C*	
Microbac Laboratories, Inc. - Ohio Valley								
TCLP HERBICIDES								
2,4-D	ND	20.0	ug/L	092910 0830	092910 2009	ECL	SW8151A	
2,4,5-TP (Silvex)	ND	2.00	ug/L	092910 0830	092910 2009	ECL	SW8151A	
Surrogate: 2,4-Dichlorophenylacetic acid		*81.4%*	*20-144*	*092910 0830*	*092910 2009*		*SW8151A*	

Microbac Laboratories, Inc., Baltimore Division



Mark B. Horan, Laboratory Director

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Morgantown	Project: Morgantown-Misc Testing	Report: 10I1188
Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

WWWTP FILTER CAKE

10I1188-02 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
Wet Chemistry								
% Solids	**63.75**	0.05	% by Weight	092410 1230	092710 0807	LCR	SM (20) 2540G	H1
Mercury, Total by EPA 7000 Series Methods								
Mercury	**14**	0.34	mg/kg dry	092710 1147	092810 1646	APS	SW846 7471A	D
Metals, Total by EPA 6000/7000 Series Methods								
Silver	ND	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Aluminum	**19000**	14	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Arsenic	**81**	5.7	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Barium	**620**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Beryllium	**2.0**	1.1	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Calcium	**160000**	280	mg/kg dry	092810 1055	093010 0955	APS	EPA 6010B	
Cadmium	**1.7**	0.57	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Cobalt	**8.8**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Chromium	**54**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Copper	**40**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Iron	**19000**	11	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Potassium	**4100**	28	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Magnesium	**9800**	28	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Manganese	**610**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Sodium	**1400**	570	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Nickel	**46**	5.7	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Lead	**23**	5.7	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Antimony	ND	11	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Selenium	**150**	5.7	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Thallium	ND	11	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Vanadium	**79**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Zinc	**83**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	B2

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

WWWTP FILTER CAKE

10I1188-02 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Extraction by EPA 1311								
Initial pH	**8.8**		N/A	092310 1443	092410 1608	APS	EPA 1311	
Final pH	**5.7**		N/A	092310 1443	092410 1608	APS	EPA 1311	
Rotation Time (Hrs)	**18**		N/A	092310 1443	092410 1608	APS	EPA 1311	
TCLP Extraction Fluid	**1.0**		N/A	092310 1443	092410 1608	APS	EPA 1311	
TCLP Filterable Solids	**0.0**		N/A	092310 1443	092410 1608	APS	EPA 1311	
TCLP Metals by 6000/7000 Series Methods								
Silver	ND	0.20	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Chromium	ND	0.20	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	092810 1700	092910 1322	APS	SW846 7471A	D
Lead	ND	0.20	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Polychlorinated Biphenyls by EPA Method 8082								
Aroclor 1016	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Aroclor 1221	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Aroclor 1232	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Aroclor 1242	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Aroclor 1248	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Aroclor 1254	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Aroclor 1260	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Total PCBs	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Surrogate: Tetrachloro-m-xylene		*58.0%*	*20.9-112*	*092310 1100*	*092310 1635*		*EPA 8082*	
Surrogate: Decachlorobiphenyl		*54.0%*	*31.3-109*	*092310 1100*	*092310 1635*		*EPA 8082*	

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

WWWTP FILTER CAKE

10I1188-02 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Microbac Laboratories, Inc., Baltimore Division

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Benzene	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Carbon Tetrachloride	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Chlorobenzene	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Chloroform	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
1,2-Dichloroethane	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
1,1-Dichloroethene	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
2-Butanone (MEK)	ND	1.3	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Tetrachloroethene	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Trichloroethene	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Vinyl chloride	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Surrogate: Dibromofluoromethane		*97.4%*	*80-120*	*092810 0554*	*092910 0212*		*EPA 1311/EPA 8260B*	
Surrogate: 1,2-Dichloroethane-d4		*90.3%*	*80-120*	*092810 0554*	*092910 0212*		*EPA 1311/EPA 8260B*	
Surrogate: Toluene-d8		*93.7%*	*75-120*	*092810 0554*	*092910 0212*		*EPA 1311/EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*86.3%*	*60-149*	*092810 0554*	*092910 0212*		*EPA 1311/EPA 8260B*	

TCLP Pesticides by EPA Method 1311/8081A

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
gamma-BHC	ND	0.00050	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Heptachlor	ND	0.00050	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Heptachlor epoxide	ND	0.00050	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Endrin	ND	0.0010	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Methoxychlor	ND	0.0050	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Toxaphene	ND	0.030	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Technical Chlordane	ND	0.010	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Surrogate: Tetrachloro-m-xylene		*59.6%*	*30-109*	*092710 1340*	*092810 1820*		*EPA 1311/8081A*	
Surrogate: Decachlorobiphenyl		*81.8%*	*30-112*	*092710 1340*	*092810 1820*		*EPA 1311/8081A*	

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Morgantown	Project: Morgantown-Misc Testing	Report: 10I1188
Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

WWWTP FILTER CAKE

10I1188-02 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Semivolatiles by EPA Method 1311/8270C								
4-Methylphenol, 3-Methylphenol	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
2-Methylphenol	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Total Cresols	ND	0.20	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Pyridine	ND	0.50	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
1,4-Dichlorobenzene	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Hexachloroethane	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Nitrobenzene	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Hexachlorobutadiene	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
2,4,6-Trichlorophenol	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
2,4,5-Trichlorophenol	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
2,4-Dinitrotoluene	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Hexachlorobenzene	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Pentachlorophenol	ND	0.50	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Surrogate: 2-Fluorophenol		*35.9%*	*0.974-78.2*	*092710 1140*	*092910 1630*		*EPA 1311/EPA 8270C*	
Surrogate: Phenol-d5		*24.8%*	*0-57.5*	*092710 1140*	*092910 1630*		*EPA 1311/EPA 8270C*	
Surrogate: Nitrobenzene-d5		*77.6%*	*15.3-131*	*092710 1140*	*092910 1630*		*EPA 1311/EPA 8270C*	
Surrogate: 2-Fluorobiphenyl		*76.7%*	*3.75-142*	*092710 1140*	*092910 1630*		*EPA 1311/EPA 8270C*	
Surrogate: 2,4,6-Tribromophenol		*85.3%*	*12.5-139*	*092710 1140*	*092910 1630*		*EPA 1311/EPA 8270C*	
Surrogate: Terphenyl-d14		*86.0%*	*16.6-136*	*092710 1140*	*092910 1630*		*EPA 1311/EPA 8270C*	
Microbac Laboratories, Inc. - Ohio Valley								
TCLP HERBICIDES								
2,4-D	ND	20.0	ug/L	092910 0830	092910 2037	ECL	SW8151A	
2,4,5-TP (Silvex)	ND	2.00	ug/L	092910 0830	092910 2037	ECL	SW8151A	
Surrogate: 2,4-Dichlorophenylacetic acid		*81.3%*	*20-144*	*092910 0830*	*092910 2037*		*SW8151A*	

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

Notes and Definitions

V8	Target analyte detected in CCB at or above reporting limit. The analyte concentration was below the reporting limit.
V7	Linearity Checks out of acceptance limits; result concentration was within calibration curve.
U	Sample concentration is less than the MDL.
R3	Sample Duplicate RPD was out of acceptance limits. The result concentration was within 5 times the reporting limit and the difference was less than the reporting limit.
R1	Sample Duplicate RPD was out of acceptance limits.
M5	The matrix spike recovery was biased low, the reported result is estimated.
M1	The matrix spike recovery was out of acceptance limits. The post digestion spike recovery was acceptable.
L2	The LCS recovery was above the laboratory acceptance limits. The target analyte concentration was below the reporting limit. No negative impact on the data.
H1	Sample analyzed past maximum recommended holding time.
D	Sample Diluted
B3	Target analyte detected in method blank at or above reporting limit. The analyte concentration was below the reporting limit.
B2	Target analyte detected in method blank at or above reporting limit. Concentration found in the samples was 20 times the concentration found in the method blank.
B	Analyte is found in method blank.
#	QC not in acceptance limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Microbac Laboratories, Inc., Baltimore Division

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

Certifications

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

- A2LA (Microbiology): 410.02
- A2LA (Environmental): 410.01
- A2LA (ELLAP): 410.01
- CPSC: 1115
- Maryland: 109
- Pennsylvania (NELAC): 68-00339
- USDA: S-53726
- Virginia: 00152

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Cooler Receipt Log

Cooler ID: Default Cooler **Cooler Temp:** 2.60 °C

Custody Seals Intact:	Yes	COC/Containers Agree:	Yes
Containers Intact:	Yes	Correct Preservation:	Yes
Received On Ice:	Yes	Correct Number of Containers Received:	Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing:	Yes
COC Present:	Yes	Samples Received in Proper Condition:	Yes

Comments:

Microbac

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Sample Submittal
Chain of Custody Record

Work Order Number:

Page 1 of 1

Client Name: MIRANT MORGANTOWN	Project: FGDWWTP NPDES YES/NO	Turnaround Time (Required):	QC and EDD Type (Required):
Address: 12620 CRAIN HWY	Location: MORGANTOWN	[X] Standard	[ ] Level I (NAC) / [ ] EDD
City, State, Zip: NEWBURG MD 20664	PO #: JVMA 1388	[ ] RUSH* (notify lab)	[ ] Level II ** / Format:
Contact: Charles Linder	MDE Drinking Water Certified Sampler? YES / NO	(needed by)	[ ] Level III ** / Comments:
Telephone #: 301-843-4560	Certification #: N/A		[ ] Level IV **

Sampled by (PRINT): MATTESON / MILLER (SYNMAT) Sampler Signature: Chm for Synmat Sampler Phone #:

Send Report via [ ] e-mail (address) [ ] Mail [ ] Telephone [ ] Fax (fax #) Hard Copy [ ] YES [ ] NO

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

Requested Analysis

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	FULL TCLP	TAL METALS	8082 PCB							Comments
Off Spec. Gypsum	S	X			9/16/10	—	1	X	X	X							
WWTP Filter Cake	S	X			9/16/10	—	1	X	X	X							

1011188

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Number of Containers:	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation
Cooler Number:	Charles Linder	Linder / Mirant	9/16/10 1230 1700	[signature]	MLI
Temp upon receipt(°C):	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation
Sample Received on Ice or Refrigerated from Client: Yes / No	[signature]	MLI	9/21/10 1345	[signature]	MLI
	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received for Lab By (signature)	Printed Name/Affiliation

501 6.09 ** Surcharge May Apply to add'l QC Packages ** WHITE LAB YELLOW REPORT PINK - CLIENT RECEIPT Page 1 2

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Number of Coolers Received: 1
Client: Mirant Mora
Form Completed By: JD

Receipt Date / Time: 9/21/10 1545
Work Order #

Shipper:	Microbac ☐ Client ☐ UPS ☐ FedEx
Custody Tape Intact:	YES / NO / NA
Containers Intact:	YES / NO
Sample Received on Ice or refrigerated:	YES / NO Temperature: ____°C or Infrared (IR)Temperature: 2.6 °C
Radiation Scan:	Negative or _____mR/hr
Chain of Custody Present with shipment:	YES / NO
Sample Bottle IDs agree with COC:	YES / NO
Preservation requirements met:	YES / NO / Not Checked
Correct Number of Containers / Sample Volume:	YES / No (If No, contact client immediately)
Headspace in container:	YES / NO / NA
Type of Sample:	Water Soil Wipes Oil Filter Solid Sludge Food Other

Container Type / Quantity:

A- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
B- ___ Unpreserved 2 H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
C- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
D- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
E- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
H- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
K- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
L- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
M- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
W- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
V- ___ Unpreserved ___ HCl ___ HCl / Ascorbic Acid ___ HCl / NaTHIO **(Checked at time of Analysis)**
F- ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
S- ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
SN- ___ Unpreserved ___ NaTHIO ___ NaTHIO/EDTA **(Checked at time of Analysis)**
J- ___ Unpreserved

2 Bags ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other(_____)

Describe preservation requirements not met:

All Acid preserved <2 pH *NaOH preserved >12 pH* *All others >2 and <10 (usually 4-8)*

Sample ID:_____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID:_____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID:_____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID:_____ H_2SO_4 HNO_3 NaOH _____ mls added

H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies:_____

Contact information / Summary of Actions:

Date / Time:_____ Contact:_____ Contact By:_____
Comments:_____

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COVER LETTER

Charles Linder
Mirant Corporation-Morgantown
Morgantown Generating Station, 12620 Crain Hwy
Newburg, MD 20664

RE: Morgantown-Misc Testing

October 05, 2010
Report No.: 10I1188

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 09/21/2010 15:45.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

Final report reviewed by:	Mark B. Horan/Laboratory Director	10/5/2010 Report issue date

All samples received in proper condition and results conform to ISO 17025 standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact the Director or Trevor Boyce, President at tboyce@microbac.com or Robert Morgan, Chief Operation Officer, at rmorgan@microbac.com.

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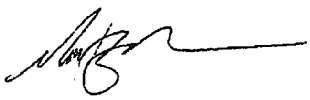
CERTIFICATE OF ANALYSIS

Mirant Corporation-Morgantown	Project: Morgantown-Misc Testing	Report: 10I1188
Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
OFF SPEC. GYPSUM	10I1188-01	Solid	Grab	09/16/2010 00:00	09/21/2010 15:45
WWWTP FILTER CAKE	10I1188-02	Solid	Grab	09/16/2010 00:00	09/21/2010 15:45

Microbac Laboratories, Inc., Baltimore Division



Mark B. Horan, Laboratory Director

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Newburg, MD 20664	Project Manager: Charles Linder	

OFF SPEC. GYPSUM

10I1188-01 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
Wet Chemistry								
% Solids	**75.76**	0.05	% by Weight	092410 1230	092710 0807	LCR	SM (20) 2540G	HI
Mercury, Total by EPA 7000 Series Methods								
Mercury	**0.23**	0.032	mg/kg dry	092710 1147	092810 1611	APS	SW846 7471A	D
Metals, Total by EPA 6000/7000 Series Methods								
Silver	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Aluminum	**470**	16	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Arsenic	ND	6.4	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Barium	**33**	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Beryllium	ND	1.3	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Calcium	**260000**	320	mg/kg dry	092810 1055	093010 0944	APS	EPA 6010B	
Cadmium	ND	0.64	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Cobalt	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Chromium	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Copper	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Iron	**710**	13	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Potassium	**210**	32	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Magnesium	ND	32	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Manganese	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Sodium	ND	640	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Nickel	ND	6.4	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Lead	ND	6.4	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Antimony	ND	13	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Selenium	ND	6.4	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Thallium	ND	13	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Vanadium	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	
Zinc	ND	3.2	mg/kg dry	092810 1055	092910 1703	APS	EPA 6010B	B3

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Mark B. Horan, Laboratory Director

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Mirant Corporation-Morgantown	Project: Morgantown-Misc Testing	Report: 10I1188
Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

OFF SPEC. GYPSUM

10I1188-01 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Extraction by EPA 1311								
Initial pH	6.4		N/A	092310 1443	092410 1608	APS	EPA 1311	
Final pH	4.9		N/A	092310 1443	092410 1608	APS	EPA 1311	
Rotation Time (Hrs)	18		N/A	092310 1443	092410 1608	APS	EPA 1311	
TCLP Extraction Fluid	1.0		N/A	092310 1443	092410 1608	APS	EPA 1311	
TCLP Filterable Solids	0.0		N/A	092310 1443	092410 1608	APS	EPA 1311	
TCLP Metals by 6000/7000 Series Methods								
Silver	ND	0.20	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Chromium	ND	0.20	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	092810 1700	092910 1320	APS	SW846 7471A	D
Lead	ND	0.20	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	092410 1638	092710 1442	APS	EPA 6010B	D
Polychlorinated Biphenyls by EPA Method 8082								
Aroclor 1016	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Aroclor 1221	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Aroclor 1232	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Aroclor 1242	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Aroclor 1248	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Aroclor 1254	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Aroclor 1260	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Total PCBs	ND	0.12	mg/kg dry	092310 1100	092310 1704	RCS	EPA 8082	U, D
Surrogate: Tetrachloro-m-xylene		*65.0%*	*20.9-112*	*092310 1100*	*092310 1704*		*EPA 8082*	
Surrogate: Decachlorobiphenyl		*53.0%*	*31.3-109*	*092310 1100*	*092310 1704*		*EPA 8082*	

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

OFF SPEC. GYPSUM

10I1188-01 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Volatile Organic Compounds by EPA Method 1311/8260B								
Benzene	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Carbon Tetrachloride	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Chlorobenzene	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Chloroform	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
1,2-Dichloroethane	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
1,1-Dichloroethene	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
2-Butanone (MEK)	ND	1.3	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Tetrachloroethene	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Trichloroethene	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Vinyl chloride	ND	0.25	mg/L	092810 0554	092910 0138	TDH	EPA 1311/EPA 8260B	U, D
Surrogate: Dibromofluoromethane		*101%*	*80-120*	*092810 0554*	*092910 0138*		*EPA 1311/EPA 8260B*	
Surrogate: 1,2-Dichloroethane-d4		*89.9%*	*80-120*	*092810 0554*	*092910 0138*		*EPA 1311/EPA 8260B*	
Surrogate: Toluene-d8		*93.2%*	*75-120*	*092810 0554*	*092910 0138*		*EPA 1311/EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*87.8%*	*60-149*	*092810 0554*	*092910 0138*		*EPA 1311/EPA 8260B*	
TCLP Pesticides by EPA Method 1311/8081A								
gamma-BHC	ND	0.00050	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Heptachlor	ND	0.00050	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Heptachlor epoxide	ND	0.00050	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Endrin	ND	0.0010	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Methoxychlor	ND	0.0050	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Toxaphene	ND	0.030	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Technical Chlordane	ND	0.010	mg/L	092710 1340	092810 1751	RCS	EPA 1311/8081A	U
Surrogate: Tetrachloro-m-xylene		*73.2%*	*30-109*	*092710 1340*	*092810 1751*		*EPA 1311/8081A*	
Surrogate: Decachlorobiphenyl		*96.6%*	*30-112*	*092710 1340*	*092810 1751*		*EPA 1311/8081A*	

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

OFF SPEC. GYPSUM

1011188-01 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Semivolatiles by EPA Method 1311/8270C								
4-Methylphenol, 3-Methylphenol	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
2-Methylphenol	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Total Cresols	ND	0.20	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Pyridine	ND	0.50	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
1,4-Dichlorobenzene	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Hexachloroethane	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Nitrobenzene	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Hexachlorobutadiene	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
2,4,6-Trichlorophenol	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
2,4,5-Trichlorophenol	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
2,4-Dinitrotoluene	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Hexachlorobenzene	ND	0.10	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Pentachlorophenol	ND	0.50	mg/L	092710 1140	092910 1546	RCS	EPA 1311/EPA 8270C	U
Surrogate: 2-Fluorophenol		*31.2%*	*0.974-78.2*	*092710 1140*	*092910 1546*		*EPA 1311/EPA 8270C*	
Surrogate: Phenol-d5		*21.9%*	*0-57.5*	*092710 1140*	*092910 1546*		*EPA 1311/EPA 8270C*	
Surrogate: Nitrobenzene-d5		*52.9%*	*15.3-131*	*092710 1140*	*092910 1546*		*EPA 1311/EPA 8270C*	
Surrogate: 2-Fluorobiphenyl		*55.7%*	*3.75-142*	*092710 1140*	*092910 1546*		*EPA 1311/EPA 8270C*	
Surrogate: 2,4,6-Tribromophenol		*61.0%*	*12.5-139*	*092710 1140*	*092910 1546*		*EPA 1311/EPA 8270C*	
Surrogate: Terphenyl-d14		*62.0%*	*16.6-136*	*092710 1140*	*092910 1546*		*EPA 1311/EPA 8270C*	
Microbac Laboratories, Inc. - Ohio Valley								
TCLP HERBICIDES								
2,4-D	ND	20.0	ug/L	092910 0830	092910 2009	ECL	SW8151A	
2,4,5-TP (Silvex)	ND	2.00	ug/L	092910 0830	092910 2009	ECL	SW8151A	
Surrogate: 2,4-Dichlorophenylacetic acid		*81.4%*	*20-144*	*092910 0830*	*092910 2009*		*SW8151A*	

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

WWWTP FILTER CAKE

10I1188-02 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
Wet Chemistry								
% Solids	**63.75**	0.05	% by Weight	092410 1230	092710 0807	LCR	SM (20) 2540G	H1
Mercury, Total by EPA 7000 Series Methods								
Mercury	**14**	0.34	mg/kg dry	092710 1147	092810 1646	APS	SW846 7471A	D
Metals, Total by EPA 6000/7000 Series Methods								
Silver	ND	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Aluminum	**19000**	14	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Arsenic	**81**	5.7	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Barium	**620**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Beryllium	**2.0**	1.1	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Calcium	**160000**	280	mg/kg dry	092810 1055	093010 0955	APS	EPA 6010B	
Cadmium	**1.7**	0.57	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Cobalt	**8.8**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Chromium	**54**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Copper	**40**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Iron	**19000**	11	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Potassium	**4100**	28	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Magnesium	**9800**	28	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Manganese	**610**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Sodium	**1400**	570	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Nickel	**46**	5.7	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Lead	**23**	5.7	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Antimony	ND	11	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Selenium	**150**	5.7	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Thallium	ND	11	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Vanadium	**79**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	
Zinc	**83**	2.8	mg/kg dry	092810 1055	092910 1734	APS	EPA 6010B	B2

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Morgantown	Project: Morgantown-Misc Testing	Report: 10I1188
Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

WWWTP FILTER CAKE

10I1188-02 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Extraction by EPA 1311								
Initial pH	**8.8**		N/A	092310 1443	092410 1608	APS	EPA 1311	
Final pH	**5.7**		N/A	092310 1443	092410 1608	APS	EPA 1311	
Rotation Time (Hrs)	**18**		N/A	092310 1443	092410 1608	APS	EPA 1311	
TCLP Extraction Fluid	**1.0**		N/A	092310 1443	092410 1608	APS	EPA 1311	
TCLP Filterable Solids	**0.0**		N/A	092310 1443	092410 1608	APS	EPA 1311	
TCLP Metals by 6000/7000 Series Methods								
Silver	ND	0.20	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Chromium	ND	0.20	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	092810 1700	092910 1322	APS	SW846 7471A	D
Lead	ND	0.20	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	092410 1638	092710 1453	APS	EPA 6010B	D
Polychlorinated Biphenyls by EPA Method 8082								
Aroclor 1016	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Aroclor 1221	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Aroclor 1232	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Aroclor 1242	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Aroclor 1248	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Aroclor 1254	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Aroclor 1260	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Total PCBs	ND	0.13	mg/kg dry	092310 1100	092310 1635	RCS	EPA 8082	U, D
Surrogate: Tetrachloro-m-xylene		*58.0%*	*20.9-112*	*092310 1100*	*092310 1635*		*EPA 8082*	
Surrogate: Decachlorobiphenyl		*54.0%*	*31.3-109*	*092310 1100*	*092310 1635*		*EPA 8082*	

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

WWWTP FILTER CAKE

10I1188-02 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Volatile Organic Compounds by EPA Method 1311/8260B								
Benzene	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Carbon Tetrachloride	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Chlorobenzene	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Chloroform	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
1,2-Dichloroethane	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
1,1-Dichloroethene	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
2-Butanone (MEK)	ND	1.3	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Tetrachloroethene	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Trichloroethene	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Vinyl chloride	ND	0.25	mg/L	092810 0554	092910 0212	TDH	EPA 1311/EPA 8260B	U, D
Surrogate: Dibromofluoromethane		*97.4%*	*80-120*	*092810 0554*	*092910 0212*		*EPA 1311/EPA 8260B*	
Surrogate: 1,2-Dichloroethane-d4		*90.3%*	*80-120*	*092810 0554*	*092910 0212*		*EPA 1311/EPA 8260B*	
Surrogate: Toluene-d8		*93.7%*	*75-120*	*092810 0554*	*092910 0212*		*EPA 1311/EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*86.3%*	*60-149*	*092810 0554*	*092910 0212*		*EPA 1311/EPA 8260B*	
TCLP Pesticides by EPA Method 1311/8081A								
gamma-BHC	ND	0.00050	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Heptachlor	ND	0.00050	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Heptachlor epoxide	ND	0.00050	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Endrin	ND	0.0010	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Methoxychlor	ND	0.0050	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Toxaphene	ND	0.030	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Technical Chlordane	ND	0.010	mg/L	092710 1340	092810 1820	RCS	EPA 1311/8081A	U
Surrogate: Tetrachloro-m-xylene		*59.6%*	*30-109*	*092710 1340*	*092810 1820*		*EPA 1311/8081A*	
Surrogate: Decachlorobiphenyl		*81.8%*	*30-112*	*092710 1340*	*092810 1820*		*EPA 1311/8081A*	

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

WWWTP FILTER CAKE

10I1188-02 (Solid) Sampled: 09/16/2010 00:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Semivolatiles by EPA Method 1311/8270C								
4-Methylphenol, 3-Methylphenol	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
2-Methylphenol	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Total Cresols	ND	0.20	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Pyridine	ND	0.50	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
1,4-Dichlorobenzene	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Hexachloroethane	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Nitrobenzene	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Hexachlorobutadiene	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
2,4,6-Trichlorophenol	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
2,4,5-Trichlorophenol	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
2,4-Dinitrotoluene	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Hexachlorobenzene	ND	0.10	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Pentachlorophenol	ND	0.50	mg/L	092710 1140	092910 1630	RCS	EPA 1311/EPA 8270C	U
Surrogate: 2-Fluorophenol		*35.9%*	*0.974-78.2*	*092710 1140*	*092910 1630*		*EPA 1311/EPA 8270C*	
Surrogate: Phenol-d5		*24.8%*	*0-57.5*	*092710 1140*	*092910 1630*		*EPA 1311/EPA 8270C*	
Surrogate: Nitrobenzene-d5		*77.6%*	*15.3-131*	*092710 1140*	*092910 1630*		*EPA 1311/EPA 8270C*	
Surrogate: 2-Fluorobiphenyl		*76.7%*	*3.75-142*	*092710 1140*	*092910 1630*		*EPA 1311/EPA 8270C*	
Surrogate: 2,4,6-Tribromophenol		*85.3%*	*12.5-139*	*092710 1140*	*092910 1630*		*EPA 1311/EPA 8270C*	
Surrogate: Terphenyl-d14		*86.0%*	*16.6-136*	*092710 1140*	*092910 1630*		*EPA 1311/EPA 8270C*	
Microbac Laboratories, Inc. - Ohio Valley								
TCLP HERBICIDES								
2,4-D	ND	20.0	ug/L	092910 0830	092910 2037	ECL	SW8151A	
2,4,5-TP (Silvex)	ND	2.00	ug/L	092910 0830	092910 2037	ECL	SW8151A	
Surrogate: 2,4-Dichlorophenylacetic acid		*81.3%*	*20-144*	*092910 0830*	*092910 2037*		*SW8151A*	

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Morgantown Generating Station, 12620 Crain Hwy	Project Number: Morgantown-Misc Testing	Reported: 10/05/2010 16:28
Newburg, MD 20664	Project Manager: Charles Linder	

Notes and Definitions

V8	Target analyte detected in CCB at or above reporting limit. The analyte concentration was below the reporting limit.
V7	Linearity Checks out of acceptance limits; result concentration was within calibration curve.
U	Sample concentration is less than the MDL.
R3	Sample Duplicate RPD was out of acceptance limits. The result concentration was within 5 times the reporting limit and the difference was less than the reporting limit.
R1	Sample Duplicate RPD was out of acceptance limits.
M5	The matrix spike recovery was biased low, the reported result is estimated.
M1	The matrix spike recovery was out of acceptance limits. The post digestion spike recovery was acceptable.
L2	The LCS recovery was above the laboratory acceptance limits. The target analyte concentration was below the reporting limit. No negative impact on the data.
H1	Sample analyzed past maximum recommended holding time.
D	Sample Diluted
B3	Target analyte detected in method blank at or above reporting limit. The analyte concentration was below the reporting limit.
B2	Target analyte detected in method blank at or above reporting limit. Concentration found in the samples was 20 times the concentration found in the method blank.
B	Analyte is found in method blank.
#	QC not in acceptance limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Newburg, MD 20664	Project Manager: Charles Linder	

Certifications

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

- A2LA (Microbiology): 410.02
- A2LA (Environmental): 410.01
- A2LA (ELLAP): 410.01
- CPSC: 1115
- Maryland: 109
- Pennsylvania (NELAC): 68-00339
- USDA: S-53726
- Virginia: 00152

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Cooler Receipt Log

Cooler ID: Default Cooler **Cooler Temp:** 2.60 °C

Custody Seals Intact:	Yes	COC/Containers Agree:	Yes
Containers Intact:	Yes	Correct Preservation:	Yes
Received On Ice:	Yes	Correct Number of Containers Received:	Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing:	Yes
COC Present:	Yes	Samples Received in Proper Condition:	Yes

Comments:

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Sample Submittal
Chain of Custody Record

Work Order Number: 1011188

Page 1 of 1

Client Name: MIRANT MORGANTOWN	Project: FGD WWTP NPDES YES/NO	Turnaround Time Required	QC and EDD Type Required
Address: 12620 CRAIN HWY	Location: MORGANTOWN	[X] Standard	[ ] Level I (NAC)
City, State, Zip: NEWBURG MD 20664	PO #: SVMA 1388	[ ] RUSH* (notify lab)	[ ] Level II **
Contact: Charles Linder	MDE Drinking Water Certified Sampler? YES / NO	_____ (needed by)	[ ] Level III **
Telephone #: 301-843-4560	Certification #: N/A		[ ] Level IV **
			[ ] EDD
			Format: _____
			Comments:

Sampled by (PRINT): MATTESON / MILLER (SVMMAT) Sampler Signature: Chas for SVMMAT Sampler Phone #: _____

Send Report via [ ] e-mail (address) _____ [ ] Mail [ ] Telephone [ ] Fax (fax #) _____ Hard Copy [ ] YES [ ] NO

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analysis: Full TCLP	TAL Metals	8082 PCB	Comments
Off Spec Gypsum	S	X			9/16/10	—	1	X	X	X	
WWTP Filter Cake	S	X			9/16/10	—	1	X	X	X	

1011188

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Number of Containers:	Relinquished By (signature): Charles Linder	Printed Name/Affiliation: Linder / Mirant	Date/Time: 9/16/10 1700	Received By (signature): [signature]	Printed Name/Affiliation: MLI
Cooler Number:	Relinquished By (signature): [signature]	Printed Name/Affiliation: MLI	Date/Time: 9/21/10 1345	Received By (signature): [signature]	Printed Name/Affiliation: MLI
Temp upon receipt(°C):	Relinquished By (signature):	Printed Name/Affiliation:	Date/Time:	Received for Lab By (signature): [signature]	Printed Name/Affiliation:
Sample Received on Ice or Refrigerated from Client: Yes / No					

501 6.09 ** Surcharge May Apply to add'l QC Packages ** WHITE LAB YELLOW REPORT PINK - CLIENT RECEIPT

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Number of Coolers Received: 1
Client: Mirant Mora
Form Completed By: JD

Receipt Date / Time: 9/21/10 1545
Work Order #: _____

Shipper: ☑ Microbac ☐ Client ☐ UPS ☐ FedEx
Custody Tape Intact: (YES) / NO / NA
Containers Intact: (YES) / NO
Sample Received on Ice or refrigerated: (YES) / NO
Temperature: _____ °C or
Infrared (IR)Temperature: 2.6 °C

Radiation Scan: (Negative) or _____ mR/hr
Chain of Custody Present with shipment: (YES) / NO
Sample Bottle IDs agree with COC: (YES) / NO
Preservation requirements met: YES / NO / Not Checked
Correct Number of Containers / Sample Volume: (YES) / No (If No, contact client immediately)
Headspace in container: YES / NO / (NA)
Type of Sample: (Water) Soil Wipes Oil Filter (Solid) Sludge Food Other

Container Type / Quantity:

A- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )
B- ___ Unpreserved 2 H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )
C- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )
D- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )
E- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )
H- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )
K- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )
L- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )
M- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )
W- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )
V- ___ Unpreserved ___ HCl ___ HCl / Ascorbic Acid ___ HCl / NaTHIO **(Checked at time of Analysis)**
F- ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
S- ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
SN- ___ Unpreserved ___ NaTHIO 1 NaTHIO/EDTA **(Checked at time of Analysis)**
J- ___ Unpreserved

2 Bags ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid ___ Other( )

Describe preservation requirements not met:

All Acid preserved <2 pH *NaOH preserved >12 pH* *All others >2 and <10 (usually 4-8)*

Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added

H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies: _____

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____
Comments: _____