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MARYLAND DEPARTMENT OF THE ENVIRONMENT

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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 2009. 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, 2011:

A. Contact information:

Facility Name: Dickerson Generating Station

Name of Permit Holder: GenOn Mid-Atlantic, LLC

Facility Address: 21200 Martinsburg Rd.
Street

Facility Address: Dickerson MD. 20842
City State Zip

County: Montgomery

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 301-601-6500 Facility Fax No.: 301-601-6556

Contact Name: Elizabeth 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	78,369.4	12,757.8	89,779.9	1959.0	990.9

Additional notes:

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

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:

Amount of fly ash generated in 2010 was 78,369.4 tons, of which 2,719 tons were sold to SEFA located in Columbia, SC., and 75,650 tons were disposed of at the Westland Ash Site, which is located adjacent to the Dickerson Generating Station in Montgomery County, MD.

Bottom Ash generated in 2010 was 12,757.8 tons, all of which was disposed of at the Westland Ash Site, which is located adjacent to the Dickerson Generating Station in Montgomery County, MD.

On-spec Gypsum generated in 2010 was 89,779.9 tons, of which 85,288.4 tons were transported to LaFarge in Buchannan, NY, and 4,491.5 tons are being stored on site.

Off-spec Gyspum generated in 2010 was 1959.0 tons, of which 412.4 tons were sold to Synmat, headquartered in Louisville, KY., and 1546.6 tons were disposed of at Waste Management's Amelia Landfill located in Jetersville, VA.

FGD WWTP Fines generated in 2010 was 990.9 tons, all of which were disposed at Waste Management's Amelia landfill located in Jetersville, Va.

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

Flyash:
Volume: 2,719 tons.
Uses: Geotechnical Grout Applications
On-spec Gypsum:
Volume: 89,779.9 tons sold.
Uses: Wallboard
Off-spec Gypsum:
Volume: 412.4 tons
Uses: Agricultural use.

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).

Facility Name: Dickerson Generating Station **CCB Tonnage Report – 2010**

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: Approximate 78,000 tons generated with about 2,700 tons to be sold to SEFA, located in Columbia, SC., and 75,300 tons to be transported for disposal to the Westland Ash Site in Montgomery Co., MD.
Bottom Ash: Anticipate 13,000 tons to be generated, with the entire amount to be transported for disposal to the Westland Ash Site in Montgomery Co., MD.
On-spec Gypsum: Estimate 90,000 tons generated, all of which to be transported to LaFarge in Buchannan, NY.
Off-spec Gypsum: Anticipate 1,960 tons generated, with about 400 tons to be sold for ag use and 1500 tons to be transported to Waste Management's Amelia Landfill in VA for disposal.
Waste Water Treatment Plant Fines (WWTP Fines): Anticipate 1,000 tons to be generated all of which to be shipped to Waste Management's Amelia Landfill in VA.
Note: Projected annual figures.

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

Flyash:
Volume: 2700 tons
Uses: Grout
On-Spec Gypsum:
Volume: 90,000 tons
Uses: Wallboard
Off-Spec Gypsum:
Volume: 400 tons
Uses: Agricultural use.
Note: Projected annual figures.

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:

This is to certify that, to the best of my knowledge, the information contained in this report and any attached documents are true, accurate, and complete.		
Signature	Mark Gouveia, VP-PJM South Operations 202-580-5611 Name, Title, & Telephone No. (Print or Type) mark.gouveia@genon.com Your Email Address	2/15/11 Date

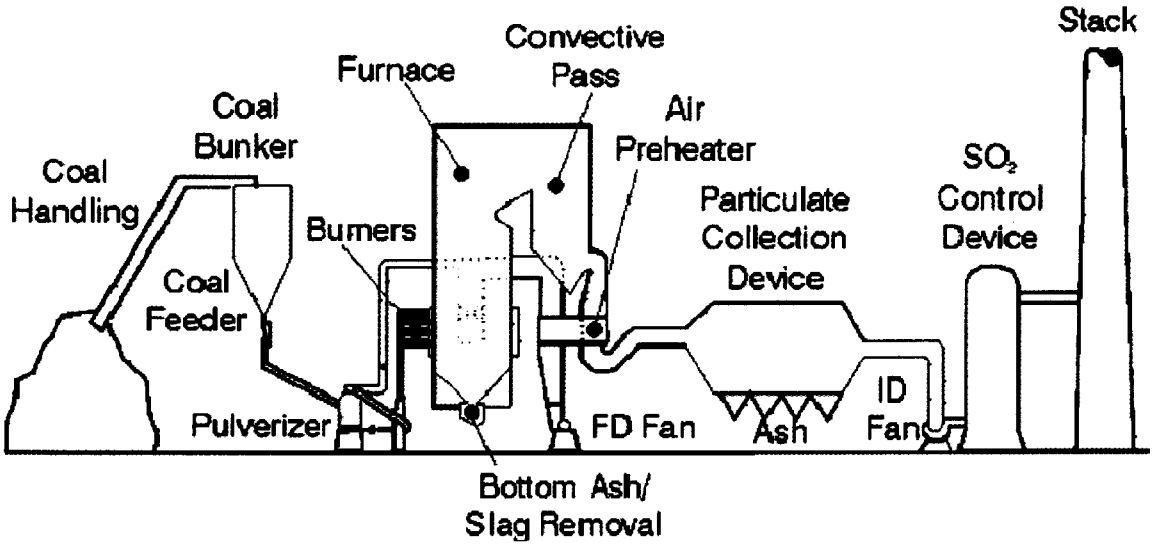
Attachment A

Dickerson Generating Station
21200 Martinsburg Road,
Dickerson, Montgomery County, MD. 20842
301-601-6500

The Dickerson Generating Station is located on the Potomac River, south of the Monocay River in upper Montgomery County, near Dickerson, MD. The facility is engaged in the generation of electric energy for sale. The primary SIC code for this facility is 4911. The facility consists of three steam units, each rated at 191 MWs (base loaded), firing bituminous coal. Each unit is tangentially fired, with a superheater, reheat and economizer. Electrostatic precipitators (ESPs) and a baghouse are installed for particulate control. Low NOx burners, Separated Over-Fired Air (SOFA), Selective Non Catalytic Reduction (SNCR) along with an advanced combustion control system are installed on each unit to reduce and control emissions of oxides of nitrogen (NOx). A Wet Scrubber (FGD) was installed and went in service on the three units in late 2009. The units exhaust through the scrubber stack or, when the FGD is not in service, through a common 700 ft. stack.

Coal is delivered to the Dickerson facility by rail. The rail cars are emptied using a rotary dumper, then transferred by conveyor to either a storage pile or fed directly to a unit's bunker.

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 two ash silos. Fly ash that is not marketed is sent to the Westland Ash Site, whose property is separated from the Dickerson facility by a public road, and is also located in Montgomery County. The bottom ash is conveyed out of the bottom of the boiler via a wet sluice system to hydrobins, where the water is then decanted and the bottom ash sent to the Westland 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. Dickerson uses wet scrubbers for SO2 removal. Wet scrubbing utilizes a chemical reaction with limestone alkaline sorbent to remove SO2, - as well as some mercury contaminants - from the air stream. The byproduct - gypsum - is sent to the Morgantown Generating Station where it is then conveyed to a barge and transported to La Farge located in Buchannan, New York where it is 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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CERTIFICATE OF ANALYSIS

GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

Fly ash

10K0748-01 (Solid) Sampled: 11/04/2010 14:30; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
Wet Chemistry								
% Solids	**100.2**	0.05	% by Weight	111210 1500	111510 1246	LCR	SM (20) 2540G	H1
Mercury, Total by EPA 7000 Series Methods								
Mercury	**0.46**	0.025	mg/kg dry	111810 1226	112210 1507	APS	SW846 7471A	D
Metals, Total by EPA 6000/7000 Series Methods								
Silver	ND	2.5	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Aluminum	**15000**	12	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Arsenic	**35**	5.0	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Barium	**270**	2.5	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Beryllium	**2.0**	1.0	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Calcium	**14000**	25	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Cadmium	ND	0.50	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Cobalt	**5.2**	2.5	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Chromium	**21**	2.5	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Copper	**42**	2.5	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Iron	**20000**	10	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Potassium	**1700**	25	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	B2
Magnesium	**1500**	25	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Manganese	**70**	2.5	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Sodium	**750**	500	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Nickel	**14**	5.0	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Lead	**17**	5.0	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Antimony	ND	10	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Selenium	**36**	20	mg/kg dry	112310 0914	120110 1240	APS	EPA 6010B	
Thallium	ND	10	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Vanadium	**85**	2.5	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	
Zinc	**31**	2.5	mg/kg dry	112310 0914	113010 1212	APS	EPA 6010B	

Microbac Laboratories, Inc., Baltimore Division

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Mark B. Horan, Laboratory Director

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21200 Martinsburg Rd.	Project Number: Dickerson Gen Station	Reported: 12/08/2010 13:23
Dickerson, MD 20842	Project Manager: Mike Parr	

Fly ash

10K0748-01 (Solid) Sampled: 11/04/2010 14:30; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Extraction by EPA 1311								
Initial pH	**4.3**		N/A	111810 1626	111910 1143	EDP	EPA 1311	
TCLP Extraction Fluid	**1.0**		N/A	111810 1626	111910 1143	EDP	EPA 1311	
Rotation Time (Hrs)	**16**		N/A	111810 1626	111910 1143	EDP	EPA 1311	
TCLP Filterable Solids	**0.0**		N/A	111810 1626	111910 1143	EDP	EPA 1311	
Final pH	**4.8**		N/A	111810 1626	111910 1143	EDP	EPA 1311	
TCLP Metals by 6000/7000 Series Methods								
Silver	ND	0.20	mg/L	111910 1234	112210 1559	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	111910 1234	112210 1559	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	111910 1234	112210 1559	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	111910 1234	112210 1559	APS	EPA 6010B	D
Chromium	ND	0.20	mg/L	111910 1234	112210 1559	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	111910 1345	111910 1811	APS	SW846 7471A	D
Lead	ND	0.20	mg/L	111910 1234	112210 1559	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	111910 1234	112210 1559	APS	EPA 6010B	D
Polychlorinated Biphenyls by EPA Method 8082								
Aroclor 1016	ND	0.10	mg/kg dry	111510 1430	111910 2336	RCS	EPA 8082	U
Aroclor 1221	ND	0.10	mg/kg dry	111510 1430	111910 2336	RCS	EPA 8082	U
Aroclor 1232	ND	0.10	mg/kg dry	111510 1430	111910 2336	RCS	EPA 8082	U
Aroclor 1242	ND	0.10	mg/kg dry	111510 1430	111910 2336	RCS	EPA 8082	U
Aroclor 1248	ND	0.10	mg/kg dry	111510 1430	111910 2336	RCS	EPA 8082	U
Aroclor 1254	ND	0.10	mg/kg dry	111510 1430	111910 2336	RCS	EPA 8082	U
Aroclor 1260	ND	0.10	mg/kg dry	111510 1430	111910 2336	RCS	EPA 8082	U
Surrogate: Tetrachloro-m-xylene		*21.0%*	*20.9-112*	*111510 1430*	*111910 2336*		*EPA 8082*	
Surrogate: Decachlorobiphenyl		*90.0%*	*31.3-109*	*111510 1430*	*111910 2336*		*EPA 8082*	

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Fly ash

10K0748-01 (Solid) Sampled: 11/04/2010 14:30; 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	111810 0000	111810 1230	TDH	EPA 1311/EPA 8260B	D
Carbon Tetrachloride	ND	0.25	mg/L	111810 0000	111810 1230	TDH	EPA 1311/EPA 8260B	D
Chlorobenzene	ND	0.25	mg/L	111810 0000	111810 1230	TDH	EPA 1311/EPA 8260B	D
Chloroform	ND	0.25	mg/L	111810 0000	111810 1230	TDH	EPA 1311/EPA 8260B	D
1,2-Dichloroethane	ND	0.25	mg/L	111810 0000	111810 1230	TDH	EPA 1311/EPA 8260B	D
1,1-Dichloroethene	ND	0.25	mg/L	111810 0000	111810 1230	TDH	EPA 1311/EPA 8260B	D
2-Butanone (MEK)	ND	1.2	mg/L	111810 0000	111810 1230	TDH	EPA 1311/EPA 8260B	D
Tetrachloroethene	ND	0.25	mg/L	111810 0000	111810 1230	TDH	EPA 1311/EPA 8260B	D
Trichloroethene	ND	0.25	mg/L	111810 0000	111810 1230	TDH	EPA 1311/EPA 8260B	D
Vinyl chloride	ND	0.25	mg/L	111810 0000	111810 1230	TDH	EPA 1311/EPA 8260B	D
Surrogate: Dibromofluoromethane		*104%*	*80-120*	*111810 0000*	*111810 1230*		*EPA 1311/EPA 8260B*	
Surrogate: 1,2-Dichloroethane-d4		*101%*	*80-120*	*111810 0000*	*111810 1230*		*EPA 1311/EPA 8260B*	
Surrogate: Toluene-d8		*97.5%*	*75-120*	*111810 0000*	*111810 1230*		*EPA 1311/EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*96.6%*	*60-149*	*111810 0000*	*111810 1230*		*EPA 1311/EPA 8260B*	
TCLP Pesticides by EPA Method 1311/8081A								
gamma-BHC	ND	0.00050	mg/L	112310 0905	112910 1527	RCS	EPA 1311/8081A	U
Heptachlor	ND	0.00050	mg/L	112310 0905	112910 1527	RCS	EPA 1311/8081A	U
Heptachlor epoxide	ND	0.00050	mg/L	112310 0905	112910 1527	RCS	EPA 1311/8081A	U
Endrin	ND	0.0010	mg/L	112310 0905	112910 1527	RCS	EPA 1311/8081A	U
Methoxychlor	ND	0.0050	mg/L	112310 0905	112910 1527	RCS	EPA 1311/8081A	U
Toxaphene	ND	0.030	mg/L	112310 0905	112910 1527	RCS	EPA 1311/8081A	U
Technical Chlordane	ND	0.010	mg/L	112310 0905	112910 1527	RCS	EPA 1311/8081A	U
Surrogate: Tetrachloro-m-xylene		*78.3%*	*30-109*	*112310 0905*	*112910 1527*		*EPA 1311/8081A*	
Surrogate: Decachlorobiphenyl		*73.5%*	*30-112*	*112310 0905*	*112910 1527*		*EPA 1311/8081A*	

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CERTIFICATE OF ANALYSIS

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21200 Martinsburg Rd.	Project Number: Dickerson Gen Station	Reported: 12/08/2010 13:23
Dickerson, MD 20842	Project Manager: Mike Parr	

Fly ash

10K0748-01 (Solid) Sampled: 11/04/2010 14:30; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Semivolatiles by EPA Method 1311/8270C								
Total Cresols	ND	0.20	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
Pyridine	ND	0.50	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
1,4-Dichlorobenzene	ND	0.10	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
2-Methylphenol	ND	0.10	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
Hexachloroethane	ND	0.10	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
4-Methylphenol, 3-Methylphenol	ND	0.10	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
Nitrobenzene	ND	0.10	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
Hexachlorobutadiene	ND	0.10	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
2,4,6-Trichlorophenol	ND	0.10	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
2,4,5-Trichlorophenol	ND	0.10	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
2,4-Dinitrotoluene	ND	0.10	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
Hexachlorobenzene	ND	0.10	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
Pentachlorophenol	ND	0.50	mg/L	112310 1010	112410 1810	RCS	EPA 1311/EPA 8270C	U
Surrogate: 2-Fluorophenol		*39.4%*	*0.974-78.2*	*112310 1010*	*112410 1810*		*EPA 1311/EPA 8270C*	
Surrogate: Phenol-d5		*26.6%*	*0-57.5*	*112310 1010*	*112410 1810*		*EPA 1311/EPA 8270C*	
Surrogate: Nitrobenzene-d5		*83.0%*	*15.3-131*	*112310 1010*	*112410 1810*		*EPA 1311/EPA 8270C*	
Surrogate: 2-Fluorobiphenyl		*81.5%*	*3.75-142*	*112310 1010*	*112410 1810*		*EPA 1311/EPA 8270C*	
Surrogate: 2,4,6-Tribromophenol		*107%*	*12.5-139*	*112310 1010*	*112410 1810*		*EPA 1311/EPA 8270C*	
Surrogate: Terphenyl-d14		*83.9%*	*16.6-136*	*112310 1010*	*112410 1810*		*EPA 1311/EPA 8270C*	
Microbac Laboratories, Inc. - Ohio Valley								
TCLP HERBICIDES								
2,4-D	ND	20.0	ug/L	120210 1629	120610 1122	ECL	SW8151A	
2,4,5-TP (Silvex)	ND	2.00	ug/L	120210 1629	120610 1122	ECL	SW8151A	
Surrogate: 2,4-Dichlorophenylacetic acid		*87.2%*	*20-144*	*120210 1629*	*120610 1122*		*SW8151A*	

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

Bottom ash

10K0748-02 (Solid) Sampled: 11/04/2010 15:35; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
Wet Chemistry								
% Solids	**32.72**	0.05	% by Weight	111210 1500	111510 1246	LCR	SM (20) 2540G	H1
Mercury, Total by EPA 7000 Series Methods								
Mercury	ND	0.075	mg/kg dry	111810 1226	112210 1516	APS	SW846 7471A	D
Metals, Total by EPA 6000/7000 Series Methods								
Silver	ND	6.8	mg/kg dry	112310 0914	120110 1300	APS	EPA 6010B	
Aluminum	**5400**	34	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Arsenic	**22**	14	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	B1
Barium	**88**	6.8	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Beryllium	ND	2.7	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Calcium	**6700**	68	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Cadmium	ND	1.4	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Cobalt	ND	6.8	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Chromium	ND	6.8	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Copper	**28**	6.8	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Iron	**18000**	27	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Potassium	**760**	68	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	B2
Magnesium	**760**	68	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Manganese	**64**	6.8	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Sodium	ND	1400	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Nickel	ND	14	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Lead	ND	14	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Antimony	ND	27	mg/kg dry	112310 0914	120110 1300	APS	EPA 6010B	
Selenium	ND	55	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Thallium	ND	27	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Vanadium	**18**	6.8	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	
Zinc	**17**	6.8	mg/kg dry	112310 0914	113010 1244	APS	EPA 6010B	

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson	Project: Dickerson Gen Station	Report: 10K0748
21200 Martinsburg Rd.	Project Number: Dickerson Gen Station	Reported: 12/08/2010 13:23
Dickerson, MD 20842	Project Manager: Mike Parr	

Bottom ash

10K0748-02 (Solid) Sampled: 11/04/2010 15:35; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Extraction by EPA 1311								
Initial pH	**8.4**		N/A	111810 1626	111910 1143	EDP	EPA 1311	
TCLP Extraction Fluid	**1.0**		N/A	111810 1626	111910 1143	EDP	EPA 1311	
Rotation Time (Hrs)	**16**		N/A	111810 1626	111910 1143	EDP	EPA 1311	
TCLP Filterable Solids	**0.0**		N/A	111810 1626	111910 1143	EDP	EPA 1311	
Final pH	**4.6**		N/A	111810 1626	111910 1143	EDP	EPA 1311	
TCLP Metals by 6000/7000 Series Methods								
Silver	ND	0.20	mg/L	111910 1234	112210 1603	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	111910 1234	112210 1603	APS	EPA 6010B	D
Barium	**0.80**	0.50	mg/L	111910 1234	112210 1603	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	111910 1234	112210 1603	APS	EPA 6010B	D
Chromium	ND	0.20	mg/L	111910 1234	112210 1603	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	111910 1345	111910 1813	APS	SW846 7471A	D
Lead	ND	0.20	mg/L	111910 1234	112210 1603	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	111910 1234	112210 1603	APS	EPA 6010B	D
Polychlorinated Biphenyls by EPA Method 8082								
Aroclor 1016	ND	0.31	mg/kg dry	111510 1430	112210 0104	RCS	EPA 8082	U
Aroclor 1221	ND	0.31	mg/kg dry	111510 1430	112210 0104	RCS	EPA 8082	U
Aroclor 1232	ND	0.31	mg/kg dry	111510 1430	112210 0104	RCS	EPA 8082	U
Aroclor 1242	ND	0.31	mg/kg dry	111510 1430	112210 0104	RCS	EPA 8082	U
Aroclor 1248	ND	0.31	mg/kg dry	111510 1430	112210 0104	RCS	EPA 8082	U
Aroclor 1254	ND	0.31	mg/kg dry	111510 1430	112210 0104	RCS	EPA 8082	U
Aroclor 1260	ND	0.31	mg/kg dry	111510 1430	112210 0104	RCS	EPA 8082	U
Surrogate: Tetrachloro-m-xylene		*52.0%*	*20.9-112*	*111510 1430*	*112210 0104*		*EPA 8082*	
Surrogate: Decachlorobiphenyl		*95.0%*	*31.3-109*	*111510 1430*	*112210 0104*		*EPA 8082*	

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GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

Bottom ash

10K0748-02 (Solid) Sampled: 11/04/2010 15:35; Type: Grab

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
TCLP Volatile Organic Compounds by EPA Method 1311/8260B								
Benzene	ND	0.25	mg/L	111810 0000	111810 1307	TDH	EPA 1311/EPA 8260B	D
Carbon Tetrachloride	ND	0.25	mg/L	111810 0000	111810 1307	TDH	EPA 1311/EPA 8260B	D
Chlorobenzene	ND	0.25	mg/L	111810 0000	111810 1307	TDH	EPA 1311/EPA 8260B	D
Chloroform	ND	0.25	mg/L	111810 0000	111810 1307	TDH	EPA 1311/EPA 8260B	D
1,2-Dichloroethane	ND	0.25	mg/L	111810 0000	111810 1307	TDH	EPA 1311/EPA 8260B	D
1,1-Dichloroethene	ND	0.25	mg/L	111810 0000	111810 1307	TDH	EPA 1311/EPA 8260B	D
2-Butanone (MEK)	ND	1.2	mg/L	111810 0000	111810 1307	TDH	EPA 1311/EPA 8260B	D
Tetrachloroethene	ND	0.25	mg/L	111810 0000	111810 1307	TDH	EPA 1311/EPA 8260B	D
Trichloroethene	ND	0.25	mg/L	111810 0000	111810 1307	TDH	EPA 1311/EPA 8260B	D
Vinyl chloride	ND	0.25	mg/L	111810 0000	111810 1307	TDH	EPA 1311/EPA 8260B	D
Surrogate: Dibromofluoromethane		*101%*	*80-120*	*111810 0000*	*111810 1307*		*EPA 1311/EPA 8260B*	
Surrogate: 1,2-Dichloroethane-d4		*98.2%*	*80-120*	*111810 0000*	*111810 1307*		*EPA 1311/EPA 8260B*	
Surrogate: Toluene-d8		*99.0%*	*75-120*	*111810 0000*	*111810 1307*		*EPA 1311/EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*97.0%*	*60-149*	*111810 0000*	*111810 1307*		*EPA 1311/EPA 8260B*	
TCLP Pesticides by EPA Method 1311/8081A								
gamma-BHC	ND	0.00050	mg/L	112310 0905	112910 1540	RCS	EPA 1311/8081A	U
Heptachlor	ND	0.00050	mg/L	112310 0905	112910 1540	RCS	EPA 1311/8081A	U
Heptachlor epoxide	ND	0.00050	mg/L	112310 0905	112910 1540	RCS	EPA 1311/8081A	U
Endrin	ND	0.0010	mg/L	112310 0905	112910 1540	RCS	EPA 1311/8081A	U
Methoxychlor	ND	0.0050	mg/L	112310 0905	112910 1540	RCS	EPA 1311/8081A	U
Toxaphene	ND	0.030	mg/L	112310 0905	112910 1540	RCS	EPA 1311/8081A	U
Technical Chlordane	ND	0.010	mg/L	112310 0905	112910 1540	RCS	EPA 1311/8081A	U
Surrogate: Tetrachloro-m-xylene		*82.0%*	*30-109*	*112310 0905*	*112910 1540*		*EPA 1311/8081A*	
Surrogate: Decachlorobiphenyl		*79.9%*	*30-112*	*112310 0905*	*112910 1540*		*EPA 1311/8081A*	

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

Bottom ash

10K0748-02 (Solid) Sampled: 11/04/2010 15:35; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Semivolatiles by EPA Method 1311/8270C								
Total Cresols	ND	0.20	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
Pyridine	ND	0.50	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
1,4-Dichlorobenzene	ND	0.10	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
2-Methylphenol	ND	0.10	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
Hexachloroethane	ND	0.10	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
4-Methylphenol, 3-Methylphenol	ND	0.10	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
Nitrobenzene	ND	0.10	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
Hexachlorobutadiene	ND	0.10	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
2,4,6-Trichlorophenol	ND	0.10	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
2,4,5-Trichlorophenol	ND	0.10	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
2,4-Dinitrotoluene	ND	0.10	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
Hexachlorobenzene	ND	0.10	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
Pentachlorophenol	ND	0.50	mg/L	112310 1010	112410 1853	RCS	EPA 1311/EPA 8270C	U
Surrogate: 2-Fluorophenol		*46.6%*	*0.974-78.2*	*112310 1010*	*112410 1853*		*EPA 1311/EPA 8270C*	
Surrogate: Phenol-d5		*30.8%*	*0-57.5*	*112310 1010*	*112410 1853*		*EPA 1311/EPA 8270C*	
Surrogate: Nitrobenzene-d5		*89.7%*	*15.3-131*	*112310 1010*	*112410 1853*		*EPA 1311/EPA 8270C*	
Surrogate: 2-Fluorobiphenyl		*94.5%*	*3.75-142*	*112310 1010*	*112410 1853*		*EPA 1311/EPA 8270C*	
Surrogate: 2,4,6-Tribromophenol		*118%*	*12.5-139*	*112310 1010*	*112410 1853*		*EPA 1311/EPA 8270C*	
Surrogate: Terphenyl-d14		*93.8%*	*16.6-136*	*112310 1010*	*112410 1853*		*EPA 1311/EPA 8270C*	
Microbac Laboratories, Inc. - Ohio Valley								
TCLP HERBICIDES								
2,4-D	ND	20.0	ug/L	120210 1629	120610 1150	ECL	SW8151A	
2,4,5-TP (Silvex)	ND	2.00	ug/L	120210 1629	120610 1150	ECL	SW8151A	
Surrogate: 2,4-Dichlorophenylacetic acid		*68.3%*	*20-144*	*120210 1629*	*120610 1150*		*SW8151A*	

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

Wet Chemistry - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1046221 - TKN_Prep										
Blank (1046221-BLK1)				Prepared: 11/12/2010 Analyzed: 11/15/2010						
Total Kjeldahl Nitrogen	ND	1.0	mg/L							
LCS (1046221-BS1)				Prepared: 11/12/2010 Analyzed: 11/15/2010						
Total Kjeldahl Nitrogen	19.9	1.0	mg/L	20.00		99.4	89.6-111			
Duplicate (1046221-DUP1)		Source: 10K0748-04		Prepared: 11/12/2010 Analyzed: 11/15/2010						
Total Kjeldahl Nitrogen	0.280	1.0	mg/L		0.280			0.00	14	
Matrix Spike (1046221-MS1)		Source: 10K0748-04		Prepared: 11/12/2010 Analyzed: 11/15/2010						
Total Kjeldahl Nitrogen	19.9	1.0	mg/L	20.00	0.280	98.0	80-110			
Batch 1046232 - NO3_Prep										
Blank (1046232-BLK1)				Prepared & Analyzed: 11/12/2010						
Nitrate/Nitrite as N	ND	0.050	mg/L							
LCS (1046232-BS1)				Prepared & Analyzed: 11/12/2010						
Nitrate/Nitrite as N	2.73		mg/L	2.500		109	90-110			
Duplicate (1046232-DUP1)		Source: 10K0688-02		Prepared & Analyzed: 11/12/2010						
Nitrate/Nitrite as N	ND	0.10	mg/L		ND				200	
Matrix Spike (1046232-MS1)		Source: 10K0688-02		Prepared & Analyzed: 11/12/2010						
Nitrate/Nitrite as N	28.1	0.50	mg/L	20.00	ND	140	80-120			M3
Batch 1046234 - % Solids										
Blank (1046234-BLK1)				Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	ND	0.05	% by Weight							

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson	Project: Dickerson Gen Station	Report: 10K0748
21200 Martinsburg Rd.	Project Number: Dickerson Gen Station	Reported: 12/08/2010 13:23
Dickerson, MD 20842	Project Manager: Mike Parr	

Wet Chemistry - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1046234 - % Solids										
Blank (1046234-BLK2)				Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	ND	0.05	% by Weight							
Blank (1046234-BLK3)				Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	ND	0.05	% by Weight							
Blank (1046234-BLK4)				Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	ND	0.05	% by Weight							
Blank (1046234-BLK5)				Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	ND	0.05	% by Weight							
LCS (1046234-BS1)				Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	2.01	0.05	% by Weight	2.000		101	80-120			
% Moisture	97.99	0.05	"	100.0		98.0	80-120			
LCS (1046234-BS2)				Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	2.01	0.05	% by Weight	2.000		101	80-120			
% Moisture	97.99	0.05	"	100.0		98.0	80-120			
LCS (1046234-BS3)				Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	2.02	0.05	% by Weight	2.000		101	80-120			
% Moisture	97.98	0.05	"	100.0		98.0	80-120			
LCS (1046234-BS4)				Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	2.02	0.05	% by Weight	2.000		101	80-120			
% Moisture	97.98	0.05	"	100.0		98.0	80-120			
LCS (1046234-BS5)				Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	2.02	0.05	% by Weight	2.000		101	80-120			
% Moisture	97.98	0.05	"	100.0		98.0	80-120			

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Wet Chemistry - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1046234 - % Solids										
Duplicate (1046234-DUP1)		**Source: 10K0550-01**		Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	38.87	0.05	% by Weight		39.02			0.368	20	
% Moisture	61.13	0.05	"		60.98			0.235	20	
Duplicate (1046234-DUP2)		**Source: 10K0557-01**		Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	1.95	0.05	% by Weight		1.96			0.378	20	
% Moisture	98.05	0.05	"		98.04			0.00754	20	
Duplicate (1046234-DUP3)		**Source: 10K0558-01**		Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	5.20	0.05	% by Weight		5.31			2.15	20	
% Moisture	94.80	0.05	"		94.69			0.119	20	
Duplicate (1046234-DUP4)		**Source: 10K0559-01**		Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	2.43	0.05	% by Weight		2.44			0.127	20	
% Moisture	97.57	0.05	"		97.56			0.00317	20	
Duplicate (1046234-DUP5)		**Source: 10K0763-01**		Prepared: 11/12/2010 Analyzed: 11/15/2010						
% Solids	1.31	0.05	% by Weight		1.32			0.503	20	
% Moisture	98.69	0.05	"		98.68			0.00670	20	
Batch 1047045 - WetChem TP Prep										
Blank (1047045-BLK1)				Prepared: 11/16/2010 Analyzed: 11/18/2010						
Phosphorus, Total (as P)	ND	0.010	mg/L							
Blank (1047045-BLK2)				Prepared: 11/17/2010 Analyzed: 11/18/2010						
Phosphorus, Total (as P)	ND	0.010	mg/L							

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Wet Chemistry - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1047045 - WetChem_TP_Prep										
LCS (1047045-BS1)				Prepared: 11/16/2010 Analyzed: 11/18/2010						
Phosphorus, Total (as P)	0.513	0.010	mg/L	0.5000		103	80-120			
LCS (1047045-BS2)				Prepared: 11/17/2010 Analyzed: 11/18/2010						
Phosphorus, Total (as P)	0.500	0.010	mg/L	0.5000		99.9	80-120			
Duplicate (1047045-DUP1)		Source: 10K0748-04		Prepared: 11/16/2010 Analyzed: 11/18/2010						
Phosphorus, Total (as P)	0.0210	0.010	mg/L		0.0204			2.90	20	
Matrix Spike (1047045-MS1)		Source: 10K0748-04		Prepared: 11/16/2010 Analyzed: 11/18/2010						
Phosphorus, Total (as P)	0.240	0.010	mg/L	0.2500	0.0204	87.7	80-120			

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

Mercury, Total by EPA 200/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch M0K2209 - 1047168										
Instrument Blank (M0K2209-IBL1)				Prepared & Analyzed: 11/22/2010						
Mercury	ND	0.00020	ug/L							

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

Mercury, Total by EPA 7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1047168 - Metals Hg Prep										
Blank (1047168-BLK1)				Prepared: 11/18/2010 Analyzed: 11/22/2010						
Mercury	ND	0.025	mg/kg wet							D
LCS (1047168-BS1)				Prepared: 11/18/2010 Analyzed: 11/22/2010						
Mercury	20.7	1.2	mg/kg wet	16.30		127	71.5-128.1			D
Duplicate (1047168-DUP1)		Source: 10K0748-01		Prepared: 11/18/2010 Analyzed: 11/22/2010						
Mercury	0.426	0.024	mg/kg dry		0.458			7.22	20	D
Matrix Spike (1047168-MS1)		Source: 10K0748-01		Prepared: 11/18/2010 Analyzed: 11/22/2010						
Mercury	0.627	0.023	mg/kg dry	0.2313	0.458	73.1	70-130			D
Matrix Spike Dup (1047168-MSD1)		Source: 10K0748-01		Prepared: 11/18/2010 Analyzed: 11/22/2010						
Mercury	0.632	0.024	mg/kg dry	0.2401	0.458	72.2	70-130	1.25	20	D

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GenOn-Dickerson	Project: Dickerson Gen Station	Report: 10K0748
21200 Martinsburg Rd.	Project Number: Dickerson Gen Station	Reported: 12/08/2010 13:23
Dickerson, MD 20842	Project Manager: Mike Parr	

Metals, Total by EPA 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1048046 - EPA 3050B ICP										
Blank (1048046-BLK1)				Prepared: 11/23/2010 Analyzed: 11/30/2010						
Magnesium	ND	2.5	mg/kg wet							
Potassium	3.04	2.5	"							B2
Iron	1.22	1.0	"							B2
Thallium	ND	1.0	"							
Chromium	ND	0.25	"							
Sodium	ND	50	"							
Selenium	ND	2.0	"							
Cobalt	ND	0.25	"							
Vanadium	ND	0.25	"							
Zinc	0.821	0.25	"							B2
Cadmium	ND	0.050	"							
Copper	ND	0.25	"							
Arsenic	1.02	0.50	"							B1, B2, B3
Silver	ND	0.25	"							
Calcium	ND	2.5	"							
Manganese	0.569	0.25	"							B2
Antimony	11.2	1.0	"							B3
Nickel	ND	0.50	"							
Lead	ND	0.50	"							
Barium	ND	0.25	"							
Beryllium	ND	0.10	"							
Aluminum	2.00	1.2	"							B2
LCS (1048046-BS1)				Prepared: 11/23/2010 Analyzed: 11/30/2010						
Iron	13500	9.9	mg/kg wet	13100		103	50.5-149.2			
Sodium	729	500	"	724.0		101	73.8-126.3			
Potassium	2810	25	"	2770		101	71.6-128.4			
Zinc	314	2.5	"	299.0		105	80.3-120.2			
Lead	159	5.0	"	152.0		104	81.2-118.8			
Copper	69.9	2.5	"	74.70		93.5	82.9-116.4			
Chromium	87.4	2.5	"	93.40		93.6	80.3-119			
Vanadium	105	2.5	"	110.0		95.0	68.1-131.9			
Magnesium	3080	25	"	2980		104	75.3-124.7			
Aluminum	10000	12	"	9780		102	47.5-152.3			
Beryllium	88.2	0.99	"	92.10		95.8	83.4-117.2			
Barium	322	2.5	"	325.0		99.1	79.2-120.8			

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson	Project: Dickerson Gen Station	Report: 10K0748
21200 Martinsburg Rd.	Project Number: Dickerson Gen Station	Reported: 12/08/2010 13:23
Dickerson, MD 20842	Project Manager: Mike Parr	

Metals, Total by EPA 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1048046 - EPA 3050B ICP										
LCS (1048046-BS1)				Prepared: 11/23/2010 Analyzed: 11/30/2010						
Antimony	98.1	9.9	mg/kg wet	121.0		81.1	0-240			
Manganese	457	2.5	"	443.0		103	82.4-117.8			
Calcium	7130	25	"	6700		106	83.1-117			
Arsenic	113	5.0	"	109.0		103	82.6-117.4			
Selenium	229	20	"	207.0		111	80-120			
Cobalt	136	2.5	"	133.0		102	83.1-116.2			
Cadmium	120	0.50	"	110.0		109	83-116.9			
Nickel	105	5.0	"	109.0		96.2	81.5-118.5			
Thallium	168	9.9	"	171.0		98.5	78.9-121.1			
Silver	56.4	2.5	"	51.90		109	66.3-133.7			
Duplicate (1048046-DUP1)		**Source: 10K0748-01**		Prepared: 11/23/2010 Analyzed: 11/30/2010						
Aluminum	15700	12	mg/kg dry		15300			3.12	20	
Magnesium	1550	25	"		1530			0.956	20	
Lead	17.6	5.0	"		16.7			5.31	20	
Silver	2.02	2.5	"		1.61			22.6	20	R3
Zinc	32.9	2.5	"		31.3			5.21	20	
Arsenic	41.6	5.0	"		35.3			16.2	20	
Manganese	62.7	2.5	"		69.6			10.4	20	
Nickel	15.3	5.0	"		14.3			6.58	20	
Barium	276	2.5	"		270			1.95	20	
Antimony	ND	10	"		ND				20	
Iron	18300	10	"		20400			10.7	20	
Chromium	20.5	2.5	"		21.1			2.83	20	
Cobalt	5.95	2.5	"		5.23			12.9	20	
Selenium	26.3	20	"		36.4			32.0	20	R3
Thallium	3.62	10	"		5.03			32.5	20	R3
Copper	43.4	2.5	"		42.0			3.19	20	
Cadmium	0.425	0.50	"		0.417			1.93	20	
Beryllium	2.27	1.0	"		1.96			14.9	20	
Calcium	14500	25	"		14200			1.78	20	
Potassium	1780	25	"		1680			5.75	20	
Sodium	771	500	"		753			2.46	20	
Vanadium	87.5	2.5	"		84.9			3.07	20	

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21200 Martinsburg Rd.	Project Number: Dickerson Gen Station	Reported: 12/08/2010 13:23
Dickerson, MD 20842	Project Manager: Mike Parr	

Metals, Total by EPA 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1048046 - EPA 3050B ICP										
Matrix Spike (1048046-MS1)		**Source: 10K0748-01**		Prepared: 11/23/2010 Analyzed: 11/30/2010						
Thallium	38.9	9.9	mg/kg dry	49.62	5.03	68.3	75-125			M1
Vanadium	136	2.5	"	49.62	84.9	104	75-125			
Antimony	23.7	9.9	"	49.62	ND	47.9	75-125			M1
Lead	65.3	5.0	"	49.62	16.7	97.9	75-125			
Sodium	1360	500	"	496.2	753	122	75-125			
Selenium	75.2	20	"	49.62	36.4	78.3	75-125			
Nickel	64.8	5.0	"	49.62	14.3	102	75-125			
Aluminum	17500	12	"	248.1	15300	892	75-125			M1
Zinc	84.3	2.5	"	49.62	31.3	107	75-125			
Cobalt	53.9	2.5	"	49.62	5.23	98.0	75-125			
Arsenic	85.6	5.0	"	49.62	35.3	101	75-125			
Chromium	68.4	2.5	"	49.62	21.1	95.3	75-125			
Beryllium	49.8	0.99	"	49.62	1.96	96.3	75-125			
Barium	329	2.5	"	49.62	270	118	75-125			
Iron	20500	9.9	"	248.1	20400	47.3	75-125			M1
Copper	94.5	2.5	"	49.62	42.0	106	75-125			
Potassium	2410	25	"	496.2	1680	147	75-125			M1
Magnesium	2090	25	"	496.2	1530	113	75-125			
Silver	26.9	2.5	"	24.81	1.61	102	75-125			
Calcium	15000	25	"	496.2	14200	145	75-125			M1
Manganese	112	2.5	"	49.62	69.6	86.1	75-125			
Cadmium	52.5	0.50	"	49.62	0.417	105	75-125			
Matrix Spike Dup (1048046-MSD1)		**Source: 10K0748-01**		Prepared: 11/23/2010 Analyzed: 11/30/2010						
Barium	327	2.5	mg/kg dry	49.75	270	113	75-125	3.73	20	
Beryllium	50.1	1.0	"	49.75	1.96	96.7	75-125	0.349	20	
Aluminum	18500	12	"	248.8	15300	NR	75-125	38.2	20	M1
Silver	26.8	2.5	"	24.88	1.61	101	75-125	0.626	20	
Lead	67.4	5.0	"	49.75	16.7	102	75-125	4.10	20	
Arsenic	86.5	5.0	"	49.75	35.3	103	75-125	1.32	20	
Calcium	15100	25	"	497.5	14200	176	75-125	19.3	20	M1
Chromium	69.8	2.5	"	49.75	21.1	97.9	75-125	2.66	20	
Cadmium	52.8	0.50	"	49.75	0.417	105	75-125	0.195	20	
Cobalt	53.9	2.5	"	49.75	5.23	97.9	75-125	0.142	20	
Copper	95.8	2.5	"	49.75	42.0	108	75-125	2.21	20	
Iron	23100	10	"	248.8	20400	NR	75-125	183	20	M1

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson	Project: Dickerson Gen Station	Report: 10K0748
21200 Martinsburg Rd.	Project Number: Dickerson Gen Station	Reported: 12/08/2010 13:23
Dickerson, MD 20842	Project Manager: Mike Parr	

Metals, Total by EPA 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1048046 - EPA 3050B ICP										
Matrix Spike Dup (1048046-MSD1)		**Source: 10K0748-01**		Prepared: 11/23/2010 Analyzed: 11/30/2010						
Potassium	2520	25	mg/kg dry	497.5	1680	169	75-125	14.1	20	M1
Magnesium	2140	25	"	497.5	1530	122	75-125	7.64	20	
Manganese	117	2.5	"	49.75	69.6	96.0	75-125	10.9	20	
Sodium	1400	500	"	497.5	753	131	75-125	7.07	20	M1
Nickel	65.4	5.0	"	49.75	14.3	103	75-125	0.993	20	
Vanadium	139	2.5	"	49.75	84.9	109	75-125	5.14	20	
Antimony	13.1	10	"	49.75	ND	26.4	75-125	57.9	20	M1
Thallium	40.8	10	"	49.75	5.03	72.0	75-125	5.28	20	M1
Selenium	70.2	20	"	49.75	36.4	68.0	75-125	14.1	20	M1
Zinc	89.0	2.5	"	49.75	31.3	116	75-125	8.31	20	
Post Spike (1048046-PS1)		**Source: 10K0748-01**		Prepared & Analyzed: 11/30/2010						
Arsenic	1.13		mg/L	1.000	0.0710	106	75-125			
Manganese	1.10		"	1.000	0.140	96.3	75-125			
Magnesium	13.2		"	10.00	3.07	101	75-125			
Copper	1.10		"	1.000	0.0844	101	75-125			
Barium	1.46		"	1.000	0.543	92.0	75-125			
Cobalt	0.961		"	1.000	0.0105	95.1	75-125			
Iron	46.9		"	5.000	41.0	117	75-125			
Beryllium	1.02		"	1.000	0.00394	102	75-125			
Lead	1.03		"	1.000	0.0335	99.8	75-125			
Chromium	1.01		"	1.000	0.0423	96.7	75-125			
Cadmium	1.06		"	1.000	0.000838	106	75-125			
Silver	0.533		"	0.5000	0.00323	106	75-125			
Aluminum	36.4		"	5.000	30.6	115	75-125			
Potassium	13.5		"	10.00	3.37	102	75-125			
Calcium	40.2		"	10.00	28.6	116	75-125			
Nickel	1.04		"	1.000	0.0287	101	75-125			
Thallium	0.979		"	1.000	0.0101	96.9	75-125			
Vanadium	1.12		"	1.000	0.171	94.7	75-125			
Sodium	11.7		"	10.00	1.51	102	75-125			
Selenium	1.11		"	1.000	0.0731	104	75-125			
Zinc	1.09		"	1.000	0.0628	103	75-125			
Antimony	0.908		"	1.000	-0.0554	96.4	75-125			

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GenOn-Dickerson	Project: Dickerson Gen Station	Report: 10K0748
21200 Martinsburg Rd.	Project Number: Dickerson Gen Station	Reported: 12/08/2010 13:23
Dickerson, MD 20842	Project Manager: Mike Parr	

Metals, Total by EPA 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch M0K3007 - 1048046										
Instrument Blank (M0K3007-IBL1)				Prepared & Analyzed: 11/29/2010						
Arsenic	ND	0.010	mg/L							
Barium	ND	0.0050	"							
Antimony	ND	0.020	"							
Chromium	ND	0.0050	"							
Silver	ND	0.0050	"							
Zinc	ND	0.0050	"							
Calcium	ND	0.050	"							
Aluminum	ND	0.025	"							
Selenium	ND	0.040	"							
Copper	ND	0.0050	"							
Thallium	ND	0.020	"							
Iron	ND	0.020	"							
Sodium	ND	1.0	"							
Nickel	ND	0.010	"							
Beryllium	ND	0.0020	"							
Lead	ND	0.010	"							
Magnesium	ND	0.050	"							
Cobalt	ND	0.0050	"							
Cadmium	ND	0.0010	"							
Manganese	ND	0.0050	"							
Vanadium	ND	0.0050	"							
Potassium	ND	0.050	"							

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

TCLP Metals by 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1047233 - EPA 1311/200.2 ICP										
Blank (1047233-BLK1)				Prepared: 11/19/2010 Analyzed: 11/22/2010						
Chromium	ND	0.20	mg/L							D
Lead	ND	0.20	"							D
Selenium	ND	0.20	"							D
Arsenic	ND	0.20	"							D
Cadmium	ND	0.20	"							D
Silver	ND	0.20	"							D
Barium	ND	0.50	"							D
Blank (1047233-BLK2)				Prepared: 11/19/2010 Analyzed: 11/22/2010						
Silver	ND	0.20	mg/L							D
Lead	ND	0.20	"							D
Cadmium	ND	0.20	"							D
Arsenic	ND	0.20	"							D
Barium	ND	0.50	"							D
Selenium	ND	0.20	"							D
Chromium	ND	0.20	"							D
LCS (1047233-BS1)				Prepared: 11/19/2010 Analyzed: 11/22/2010						
Chromium	0.964	0.020	mg/L	1.000		96.4	85-115			
Cadmium	0.978	0.020	"	1.000		97.8	85-115			
Silver	0.505	0.020	"	0.5000		101	85-115			
Arsenic	0.983	0.020	"	1.000		98.3	85-115			
Barium	0.935	0.050	"	1.000		93.5	85-115			
Lead	0.974	0.020	"	1.000		97.4	85-115			
Selenium	0.897	0.020	"	1.000		89.7	85-115			
LCS (1047233-BS2)				Prepared: 11/19/2010 Analyzed: 11/22/2010						
Chromium	0.185	0.020	mg/L	0.2000		92.6	85-115			
Barium	0.188	0.050	"	0.2000		94.0	85-115			
Lead	0.186	0.020	"	0.2000		93.1	85-115			
Silver	0.0983	0.020	"	0.1000		98.3	85-115			
Cadmium	0.189	0.020	"	0.2000		94.3	85-115			
Selenium	0.177	0.020	"	0.2000		88.6	85-115			
Arsenic	0.182	0.020	"	0.2000		91.0	85-115			

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

TCLP Metals by 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1047233 - EPA 1311/200.2 ICP										
Duplicate (1047233-DUP1)		**Source: 10K0860-01**		Prepared: 11/19/2010 Analyzed: 11/22/2010						
Barium	2.95	0.50	mg/L		3.04			2.97	20	D
Silver	ND	0.20	"		ND				20	D
Cadmium	ND	0.20	"		ND				20	D
Arsenic	ND	0.20	"		ND				20	D
Selenium	ND	0.20	"		ND				20	D
Chromium	0.145	0.20	"		0.145			0.152	20	D
Lead	ND	0.20	"		ND				20	D
Matrix Spike (1047233-MS1)		**Source: 10K0860-01**		Prepared: 11/19/2010 Analyzed: 11/22/2010						
Selenium	0.783	0.20	mg/L	1.000	ND	78.3	50-150			D
Cadmium	0.928	0.20	"	1.000	ND	92.8	50-150			D
Lead	0.841	0.20	"	1.000	ND	84.1	50-150			D
Barium	3.91	0.50	"	1.000	3.04	87.0	50-150			D
Chromium	1.07	0.20	"	1.000	0.145	93.0	50-150			D
Arsenic	0.811	0.20	"	1.000	ND	81.1	50-150			D
Silver	0.410	0.20	"	0.5000	ND	82.0	50-150			D
Batch 1047247 - Metals Hg TCLP Prep										
Blank (1047247-BLK1)				Prepared & Analyzed: 11/19/2010						
Mercury	ND	0.0020	mg/L							D
Blank (1047247-BLK2)				Prepared & Analyzed: 11/19/2010						
Mercury	ND	0.0020	mg/L							D
LCS (1047247-BS1)				Prepared & Analyzed: 11/19/2010						
Mercury	0.00198	0.00020	mg/L	0.002002		98.7	85-115			

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

TCLP Metals by 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1047247 - Metals_Hg_TCLP_Prep										
Duplicate (1047247-DUP1)		**Source: 10K0860-01**		Prepared & Analyzed: 11/19/2010						
Mercury	ND	0.0020	mg/L		ND				20	D
Matrix Spike (1047247-MS1)		**Source: 10K0860-01**		Prepared & Analyzed: 11/19/2010						
Mercury	0.00206	0.0020	mg/L	0.002502	ND	82.2	70-130			D
Batch M0K2203 - 1047247										
Instrument Blank (M0K2203-IBL1)				Prepared & Analyzed: 11/19/2010						
Mercury	ND	0.00020	ug/L							
Batch M0K2212 - 1047233										
Instrument Blank (M0K2212-IBL1)				Prepared & Analyzed: 11/22/2010						
Barium	ND	0.050	mg/L							
Arsenic	ND	0.020	"							
Lead	ND	0.020	"							
Selenium	ND	0.020	"							
Silver	ND	0.020	"							
Cadmium	ND	0.020	"							
Chromium	ND	0.020	"							

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GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1047049 - EPA 3550B										
Blank (1047049-BLK1)				Prepared: 11/15/2010 Analyzed: 11/19/2010						
Aroclor 1016	ND	0.10	mg/kg wet							U
Aroclor 1221	ND	0.10	"							U
Aroclor 1232	ND	0.10	"							U
Aroclor 1242	ND	0.10	"							U
Aroclor 1248	ND	0.10	"							U
Aroclor 1254	ND	0.10	"							U
Aroclor 1260	ND	0.10	"							U
Surrogate: Tetrachloro-m-xylene	*0.0840*		"	*0.1000*		*84.0*	*20.9-112*			
Surrogate: Decachlorobiphenyl	*0.107*		"	*0.1000*		*107*	*31.3-109*			
LCS (1047049-BS1)				Prepared: 11/15/2010 Analyzed: 11/19/2010						
Aroclor 1016	1.14	0.10	mg/kg wet	1.000		114	48.7-116			
Aroclor 1260	1.07	0.10	"	1.000		107	54.8-128			
Surrogate: Tetrachloro-m-xylene	*0.0730*		"	*0.1000*		*73.0*	*20.9-112*			
Surrogate: Decachlorobiphenyl	*0.115*		"	*0.1000*		*115*	*31.3-109*			*S1*
LCS Dup (1047049-BSD1)				Prepared: 11/15/2010 Analyzed: 11/19/2010						
Aroclor 1016	1.22	0.10	mg/kg wet	1.000		122	48.7-116	6.53	32.9	L2
Aroclor 1260	1.06	0.10	"	1.000		106	54.8-128	0.412	41.8	
Surrogate: Tetrachloro-m-xylene	*0.0890*		"	*0.1000*		*89.0*	*20.9-112*			
Surrogate: Decachlorobiphenyl	*0.114*		"	*0.1000*		*114*	*31.3-109*			*S1*

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GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1047209 - EPA 5030B										
Blank (1047209-BLK1)				Prepared & Analyzed: 11/18/2010						
Benzene	ND	0.0050	mg/L							
Carbon Tetrachloride	ND	0.0050	"							
Chlorobenzene	ND	0.0050	"							
Chloroform	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
1,1-Dichloroethene	ND	0.0050	"							
2-Butanone (MEK)	ND	0.025	"							
Tetrachloroethene	ND	0.0050	"							
Trichloroethene	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
Surrogate: Dibromofluoromethane	*26.0*		*ug/L*	*25.00*		*104*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*25.4*		*"*	*25.00*		*102*	*80-120*			
Surrogate: Toluene-d8	*25.2*		*"*	*25.00*		*101*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*23.9*		*"*	*25.00*		*95.7*	*60-149*			
LCS (1047209-BS1)				Prepared & Analyzed: 11/18/2010						
Benzene	0.0226	0.0050	mg/L	0.02000		113	72-132			E
Carbon Tetrachloride	0.0232	0.0050	"	0.02000		116	63.3-142			E
Chlorobenzene	0.0224	0.0050	"	0.02000		112	67.3-133			E
Chloroform	0.0227	0.0050	"	0.02000		114	76.1-135			E
1,2-Dichloroethane	0.0228	0.0050	"	0.02000		114	72.9-139			E
1,1-Dichloroethene	0.0239	0.0050	"	0.02000		120	64.6-138			E
2-Butanone (MEK)	0.115	0.025	"	0.1000		115	45-128			E
Tetrachloroethene	0.0171	0.0050	"	0.02000		85.5	69.9-125			E
Trichloroethene	0.0227	0.0050	"	0.02000		114	73.7-130			E
Vinyl chloride	0.0205	0.0050	"	0.02000		103	65.3-143			E
Surrogate: Dibromofluoromethane	*25.3*		*ug/L*	*25.00*		*101*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*25.0*		*"*	*25.00*		*100*	*80-120*			
Surrogate: Toluene-d8	*24.9*		*"*	*25.00*		*99.7*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*25.4*		*"*	*25.00*		*102*	*60-149*			

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GenOn-Dickerson	Project: Dickerson Gen Station	Report: 10K0748
21200 Martinsburg Rd.	Project Number: Dickerson Gen Station	Reported: 12/08/2010 13:23
Dickerson, MD 20842	Project Manager: Mike Parr	

TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1047209 - EPA 5030B										
LCS Dup (1047209-BSD1)				Prepared & Analyzed: 11/18/2010						
Benzene	0.0220	0.0050	mg/L	0.02000		110	72-132	2.60	200	E
Carbon Tetrachloride	0.0235	0.0050	"	0.02000		117	63.3-142	0.942	200	E
Chlorobenzene	0.0226	0.0050	"	0.02000		113	67.3-133	0.577	200	E
Chloroform	0.0225	0.0050	"	0.02000		113	76.1-135	0.885	200	E
1,2-Dichloroethane	0.0223	0.0050	"	0.02000		111	72.9-139	2.44	200	E
1,1-Dichloroethene	0.0235	0.0050	"	0.02000		117	64.6-138	1.94	200	E
2-Butanone (MEK)	0.112	0.025	"	0.1000		112	45-128	2.69	200	E
Tetrachloroethene	0.0176	0.0050	"	0.02000		87.9	69.9-125	2.77	200	E
Trichloroethene	0.0224	0.0050	"	0.02000		112	73.7-130	1.37	200	E
Vinyl chloride	0.0205	0.0050	"	0.02000		103	65.3-143	0.146	200	E
Surrogate: Dibromofluoromethane	*24.9*		*ug/L*	*25.00*		*99.5*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*24.7*		*"*	*25.00*		*98.7*	*80-120*			
Surrogate: Toluene-d8	*24.9*		*"*	*25.00*		*99.5*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*24.0*		*"*	*25.00*		*95.9*	*60-149*			

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GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

TCLP Pesticides by EPA Method 1311/8081A - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1048078 - EPA 3510C										
Blank (1048078-BLK1)				Prepared: 11/23/2010 Analyzed: 11/29/2010						
gamma-BHC	ND	0.00050	mg/L							U
Heptachlor	ND	0.00050	"							U
Heptachlor epoxide	ND	0.00050	"							U
Endrin	ND	0.0010	"							U
Methoxychlor	ND	0.0050	"							U
Toxaphene	ND	0.030	"							U
Technical Chlordane	ND	0.010	"							U
Surrogate: Tetrachloro-m-xylene	*0.00168*		"	*0.005000*		*33.6*	*30-109*			
Surrogate: Decachlorobiphenyl	*0.00275*		"	*0.005000*		*55.1*	*30-112*			
LCS (1048078-BS1)				Prepared: 11/23/2010 Analyzed: 11/29/2010						
gamma-BHC	0.00298	0.00050	mg/L	0.005000		59.6	45-135			
Heptachlor	0.00287	0.00050	"	0.005000		57.3	40-118			
Heptachlor epoxide	0.00375	0.00050	"	0.005000		75.1	57-107			
Endrin	0.00401	0.0010	"	0.005000		80.1	66-119			
Methoxychlor	0.00377	0.0050	"	0.005000		75.3	46-152			U
Surrogate: Tetrachloro-m-xylene	*0.00152*		"	*0.005000*		*30.4*	*30-109*			
Surrogate: Decachlorobiphenyl	*0.00304*		"	*0.005000*		*60.8*	*30-112*			
LCS Dup (1048078-BSD1)				Prepared: 11/23/2010 Analyzed: 11/29/2010						
gamma-BHC	0.00354	0.00050	mg/L	0.005000		70.8	45-135	17.2	200	
Heptachlor	0.00340	0.00050	"	0.005000		68.0	40-118	17.0	200	
Heptachlor epoxide	0.00432	0.00050	"	0.005000		86.5	57-107	14.1	200	
Endrin	0.00470	0.0010	"	0.005000		94.0	66-119	16.0	200	
Methoxychlor	0.00483	0.0050	"	0.005000		96.6	46-152	24.8	200	U
Surrogate: Tetrachloro-m-xylene	*0.00207*		"	*0.005000*		*41.3*	*30-109*			
Surrogate: Decachlorobiphenyl	*0.00313*		"	*0.005000*		*62.7*	*30-112*			

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson	Project: Dickerson Gen Station	Report: 10K0748
21200 Martinsburg Rd.	Project Number: Dickerson Gen Station	Reported: 12/08/2010 13:23
Dickerson, MD 20842	Project Manager: Mike Parr	

TCLP Semivolatiles by EPA Method 1311/8270C - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1048062 - EPA 3510C										
Blank (1048062-BLK1)				Prepared: 11/23/2010 Analyzed: 11/24/2010						
Total Cresols	ND	0.20	mg/L							U
Pyridine	ND	0.50	"							U
1,4-Dichlorobenzene	ND	0.10	"							U
2-Methylphenol	ND	0.10	"							U
Hexachloroethane	ND	0.10	"							U
4-Methylphenol, 3-Methylphenol	ND	0.10	"							U
Nitrobenzene	ND	0.10	"							U
Hexachlorobutadiene	ND	0.10	"							U
2,4,6-Trichlorophenol	ND	0.10	"							U
2,4,5-Trichlorophenol	ND	0.10	"							U
2,4-Dinitrotoluene	ND	0.10	"							U
Hexachlorobenzene	ND	0.10	"							U
Pentachlorophenol	ND	0.50	"							U
Surrogate: 2-Fluorophenol	*0.133*		"	*0.3750*		*35.5*	*0.974-78.2*			
Surrogate: Phenol-d5	*0.0908*		"	*0.3750*		*24.2*	*0-57.5*			
Surrogate: Nitrobenzene-d5	*0.173*		"	*0.2500*		*69.2*	*15.3-131*			
Surrogate: 2-Fluorobiphenyl	*0.176*		"	*0.2500*		*70.3*	*3.75-142*			
Surrogate: 2,4,6-Tribromophenol	*0.317*		"	*0.3750*		*84.5*	*12.5-139*			
Surrogate: Terphenyl-d14	*0.147*		"	*0.2500*		*58.9*	*16.6-136*			
LCS (1048062-BS1)				Prepared: 11/23/2010 Analyzed: 11/24/2010						
Pyridine	0.143	0.50	mg/L	0.2500		57.3	24-154			U
1,4-Dichlorobenzene	0.184	0.10	"	0.2500		73.5	38-126			
2-Methylphenol	0.184	0.10	"	0.2500		73.4	27-129			
Hexachloroethane	0.192	0.10	"	0.2500		76.7	32-155			
4-Methylphenol, 3-Methylphenol	0.164	0.10	"	0.2500		65.6	17-124			
Nitrobenzene	0.224	0.10	"	0.2500		89.5	40-130			
Hexachlorobutadiene	0.196	0.10	"	0.2500		78.6	35-122			
2,4,6-Trichlorophenol	0.211	0.10	"	0.2500		84.4	27-128			
2,4,5-Trichlorophenol	0.188	0.10	"	0.2500		75.2	22-136			
2,4-Dinitrotoluene	0.226	0.10	"	0.2500		90.6	34-126			
Hexachlorobenzene	0.261	0.10	"	0.2500		104	28-131			
Pentachlorophenol	0.229	0.50	"	0.2500		91.7	22-130			U
Surrogate: 2-Fluorophenol	*0.203*		"	*0.3750*		*54.2*	*0.974-78.2*			
Surrogate: Phenol-d5	*0.144*		"	*0.3750*		*38.5*	*0-57.5*			
Surrogate: Nitrobenzene-d5	*0.227*		"	*0.2500*		*90.8*	*15.3-131*			

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

TCLP Semivolatiles by EPA Method 1311/8270C - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1048062 - EPA 3510C										
LCS (1048062-BS1)				Prepared: 11/23/2010 Analyzed: 11/24/2010						
Surrogate: 2-Fluorobiphenyl	*0.224*		*mg/L*	*0.2500*		*89.7*	*3.75-142*			
Surrogate: 2,4,6-Tribromophenol	*0.383*		*"*	*0.3750*		*102*	*12.5-139*			
Surrogate: Terphenyl-d14	*0.181*		*"*	*0.2500*		*72.5*	*16.6-136*			
LCS Dup (1048062-BSD1)				Prepared: 11/23/2010 Analyzed: 11/24/2010						
Pyridine	0.134	0.50	mg/L	0.2500		53.5	24-154	6.71	25	U
1,4-Dichlorobenzene	0.194	0.10	"	0.2500		77.6	38-126	5.51	25	
2-Methylphenol	0.189	0.10	"	0.2500		75.6	27-129	2.95	25	
Hexachloroethane	0.198	0.10	"	0.2500		79.1	32-155	3.11	25	
4-Methylphenol, 3-Methylphenol	0.177	0.10	"	0.2500		70.7	17-124	7.39	25	
Nitrobenzene	0.228	0.10	"	0.2500		91.0	40-130	1.71	25	
Hexachlorobutadiene	0.195	0.10	"	0.2500		78.2	35-122	0.510	25	
2,4,6-Trichlorophenol	0.235	0.10	"	0.2500		93.9	27-128	10.7	25	
2,4,5-Trichlorophenol	0.227	0.10	"	0.2500		90.9	22-136	18.9	25	
2,4-Dinitrotoluene	0.251	0.10	"	0.2500		101	34-126	10.5	25	
Hexachlorobenzene	0.252	0.10	"	0.2500		101	28-131	3.56	25	
Pentachlorophenol	0.221	0.50	"	0.2500		88.4	22-130	3.66	25	U
Surrogate: 2-Fluorophenol	*0.209*		*"*	*0.3750*		*55.7*	*0.974-78.2*			
Surrogate: Phenol-d5	*0.151*		*"*	*0.3750*		*40.2*	*0-57.5*			
Surrogate: Nitrobenzene-d5	*0.230*		*"*	*0.2500*		*91.8*	*15.3-131*			
Surrogate: 2-Fluorobiphenyl	*0.243*		*"*	*0.2500*		*97.1*	*3.75-142*			
Surrogate: 2,4,6-Tribromophenol	*0.416*		*"*	*0.3750*		*111*	*12.5-139*			
Surrogate: Terphenyl-d14	*0.205*		*"*	*0.2500*		*82.0*	*16.6-136*			

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CERTIFICATE OF ANALYSIS

GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

Notes and Definitions

M1	The matrix spike recovery was out of acceptance limits. The post digestion spike recovery was acceptable.
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.
B3	Target analyte detected in method blank at or above reporting limit. The analyte concentration was below the reporting limit.
B4	Target analyte detected in continuing calibration blank at or above reporting limit. Concentration found in the samples was 20 times the concentration found in the blank. No impact on data.
D	Sample Diluted
E	Concentration estimated due to target analyte exceeding linear range.
B1	Target analyte detected in method blank at or above reporting limit.
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.
V8	Target analyte detected in CCB at or above reporting limit. The analyte concentration was below the reporting limit.
M3	The matrix spike recovery was biased high, the LCS recovery was acceptable.
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.
S1	Surrogate recovery was above laboratory acceptance limits. No negative impact on the data.
U	Sample concentration is less than the MDL.
V4	ICV recovery was above acceptance limits. The concentration was below the reporting limit.
V7	Linearity Checks out of acceptance limits; result concentration was within calibration curve.
H1	Sample analyzed past maximum recommended holding time.
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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CERTIFICATE OF ANALYSIS

GenOn-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: Dickerson Gen Station Project Number: Dickerson Gen Station Project Manager: Mike Parr	Report: 10K0748 Reported: 12/08/2010 13:23

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: 0.70 °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:

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Number of Coolers Received: 1
Client: LUCANT DICKERSON
Form Completed By: CD

Receipt Date / Time: 11-11-10 1424
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: 0.7 °C or Infrared (IR) Temperature: _____ °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 ___ 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

___ 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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Sample Submittal
Chain of Custody Record

Work Order Number:

Page ___ of ___

Client Name	MIRANT
Address	21200 Martinsburg Rd
City, State, Zip	Dickerson MD 20842
Contact	Connie Duvel
Telephone #	301-601-6520
Sampled by (PRINT)	Connie Duvel
Send Report via	e-mail (address)

Project: NPDES YES/NO
Location:
PO # SUMA 246703
MDE Drinking Water Certified Sampler? YES / NO
Certification #

Turnaround Time (Required): [ ] Standard [ ] RUSH* (notify lab) ___ (needed by)

QC and EDD Type (Required): [ ] Level I (NAC) [ ] Level II ** [ ] Level III ** [ ] Level IV ** [ ] EDD Format: ___ Comments:

Sampler Signature: [signature] Sampler Phone # 301-601-6520

[ ] Mail [ ] Telephone [ ] Fax (fax #) ___ Hard Copy [ ] YI

* 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	TCLP (Soil)	TAL Metals	8082 PCB	Total Nitrate	Total Phosphorus						Comments
FLY ASH	S	✓			11/4/10	1430	3	✓	✓	✓								
BOTTOM ASH	S	✓			11/4/10	1535	3	✓	✓	✓								
[redacted]																		

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:			11-11-10 1114	[signature]	C Duvel
Temp upon receipt(°C):	Relinquished By (signature) [signature]	Printed Name/Affiliation C Duvel	Date/Time 11-11-10 1424	Received By (signature) [signature]	Printed Name/Affiliation [illegible]
Sample Received on Ice or Refrigerated from Client: Yes / No	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received for Lab By (signature)	Printed Name/Affiliation

6.00 ** Surcharge May Apply to add'l QC Packages **

WHITE - LAB YELLOW - REPORT PINK - CLIENT RECEIPT

Page 1 2

10K0748

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

FGD WWTP FINES

10I1008-03 (Solid) Sampled: 09/15/2010 15:00; Type: Not Specified

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
Wet Chemistry								
% Solids	**54.78**	0.05	% by Weight	092410 1230	092710 0806	LCR	SM (20) 2540G	
Mercury, Total by EPA 7000 Series Methods								
Mercury	**9.5**	0.44	mg/kg dry	092710 1147	092810 1644	APS	SW846 7471A	D
Metals, Total by EPA 6000/7000 Series Methods								
Silver	ND	2.7	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Aluminum	**14000**	13	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Arsenic	**21**	5.4	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Barium	**810**	2.7	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Beryllium	ND	1.1	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Calcium	**170000**	270	mg/kg dry	092810 1055	093010 0936	APS	EPA 6010B	
Cadmium	**2.9**	0.54	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Cobalt	**8.2**	2.7	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Chromium	**56**	2.7	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Copper	**58**	2.7	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Iron	**18000**	11	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Potassium	**4900**	27	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Magnesium	**26000**	27	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Manganese	**1000**	2.7	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Sodium	**970**	540	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Nickel	**57**	5.4	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Lead	**18**	5.4	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Antimony	ND	11	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Selenium	**120**	5.4	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Thallium	ND	11	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Vanadium	**41**	2.7	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	
Zinc	**240**	2.7	mg/kg dry	092810 1055	092910 1651	APS	EPA 6010B	B2

Microbac Laboratories, Inc., Baltimore Division

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Lewis B. Gunn III For Mark B. Horan, Laboratory Director

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

FGD WWTP FINES

10I1008-03 (Solid) Sampled: 09/15/2010 15:00; Type: Not Specified

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Extraction by EPA 1311								
Initial pH	**8.0**		N/A	092310 1443	092410 1608	APS	EPA 1311	
Final pH	**4.3**		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	**2.0**		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 1422	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	092410 1638	092710 1422	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	092410 1638	092710 1422	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	092410 1638	092710 1422	APS	EPA 6010B	D
Chromium	ND	0.20	mg/L	092410 1638	092710 1422	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	092810 1700	092910 1304	APS	SW846 7471A	D
Lead	ND	0.20	mg/L	092410 1638	092710 1422	APS	EPA 6010B	D
Selenium	**0.24**	0.20	mg/L	092410 1638	092710 1422	APS	EPA 6010B	D
Polychlorinated Biphenyls by EPA Method 8082								
Aroclor 1016	ND	0.17	mg/kg dry	092310 1100	092310 1536	RCS	EPA 8082	U, D
Aroclor 1221	ND	0.17	mg/kg dry	092310 1100	092310 1536	RCS	EPA 8082	U, D
Aroclor 1232	ND	0.17	mg/kg dry	092310 1100	092310 1536	RCS	EPA 8082	U, D
Aroclor 1242	ND	0.17	mg/kg dry	092310 1100	092310 1536	RCS	EPA 8082	U, D
Aroclor 1248	ND	0.17	mg/kg dry	092310 1100	092310 1536	RCS	EPA 8082	U, D
Aroclor 1254	ND	0.17	mg/kg dry	092310 1100	092310 1536	RCS	EPA 8082	U, D
Aroclor 1260	ND	0.17	mg/kg dry	092310 1100	092310 1536	RCS	EPA 8082	D, U
Total PCBs	ND	0.17	mg/kg dry	092310 1100	092310 1536	RCS	EPA 8082	U, D
Surrogate: Tetrachloro-m-xylene		*60.0%*	*20.9-112*	*092310 1100*	*092310 1536*		*EPA 8082*	
Surrogate: Decachlorobiphenyl		*51.0%*	*31.3-109*	*092310 1100*	*092310 1536*		*EPA 8082*	

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

FGD WWTP FINES

10I1008-03 (Solid) Sampled: 09/15/2010 15:00; Type: Not Specified

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	0.24	mg/L	092010 0617	092010 1426	TDH	EPA 1311/EPA 8260B	D, U
Carbon Tetrachloride	ND	0.24	mg/L	092010 0617	092010 1426	TDH	EPA 1311/EPA 8260B	U, D
Chlorobenzene	ND	0.24	mg/L	092010 0617	092010 1426	TDH	EPA 1311/EPA 8260B	U, D
Chloroform	ND	0.24	mg/L	092010 0617	092010 1426	TDH	EPA 1311/EPA 8260B	U, D
1,2-Dichloroethane	ND	0.24	mg/L	092010 0617	092010 1426	TDH	EPA 1311/EPA 8260B	U, D
1,1-Dichloroethene	ND	0.24	mg/L	092010 0617	092010 1426	TDH	EPA 1311/EPA 8260B	U, D
2-Butanone (MEK)	ND	1.2	mg/L	092010 0617	092010 1426	TDH	EPA 1311/EPA 8260B	U, D
Tetrachloroethene	ND	0.24	mg/L	092010 0617	092010 1426	TDH	EPA 1311/EPA 8260B	U, D
Trichloroethene	ND	0.24	mg/L	092010 0617	092010 1426	TDH	EPA 1311/EPA 8260B	U, D
Vinyl chloride	ND	0.24	mg/L	092010 0617	092010 1426	TDH	EPA 1311/EPA 8260B	U, D
Surrogate: Dibromofluoromethane		*104%*	*80-120*	*092010 0617*	*092010 1426*		*EPA 1311/EPA 8260B*	
Surrogate: 1,2-Dichloroethane-d4		*96.8%*	*80-120*	*092010 0617*	*092010 1426*		*EPA 1311/EPA 8260B*	
Surrogate: Toluene-d8		*96.4%*	*75-120*	*092010 0617*	*092010 1426*		*EPA 1311/EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*101%*	*60-149*	*092010 0617*	*092010 1426*		*EPA 1311/EPA 8260B*	
TCLP Pesticides by EPA Method 1311/8081A								
gamma-BHC	ND	0.00050	mg/L	092710 1340	092810 1651	RCS	EPA 1311/8081A	U
Heptachlor	ND	0.00050	mg/L	092710 1340	092810 1651	RCS	EPA 1311/8081A	U
Heptachlor epoxide	ND	0.00050	mg/L	092710 1340	092810 1651	RCS	EPA 1311/8081A	U
Endrin	ND	0.0010	mg/L	092710 1340	092810 1651	RCS	EPA 1311/8081A	U
Methoxychlor	ND	0.0050	mg/L	092710 1340	092810 1651	RCS	EPA 1311/8081A	U
Toxaphene	ND	0.030	mg/L	092710 1340	092810 1651	RCS	EPA 1311/8081A	U
Technical Chlordane	ND	0.010	mg/L	092710 1340	092810 1651	RCS	EPA 1311/8081A	U
Surrogate: Tetrachloro-m-xylene		*52.6%*	*30-109*	*092710 1340*	*092810 1651*		*EPA 1311/8081A*	
Surrogate: Decachlorobiphenyl		*87.2%*	*30-112*	*092710 1340*	*092810 1651*		*EPA 1311/8081A*	

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

FGD WWTP FINES

10I1008-03 (Solid) Sampled: 09/15/2010 15:00; Type: Not Specified

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Semivolatiles by EPA Method 1311/8270C								
Total Cresols	ND	0.20	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
Pyridine	ND	0.50	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
1,4-Dichlorobenzene	ND	0.10	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
2-Methylphenol	ND	0.10	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
Hexachloroethane	ND	0.10	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
4-Methylphenol, 3-Methylphenol	ND	0.10	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
Nitrobenzene	ND	0.10	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
Hexachlorobutadiene	ND	0.10	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
2,4,6-Trichlorophenol	ND	0.10	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
2,4,5-Trichlorophenol	ND	0.10	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
2,4-Dinitrotoluene	ND	0.10	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
Hexachlorobenzene	ND	0.10	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
Pentachlorophenol	ND	0.50	mg/L	092710 1140	092910 1420	RCS	EPA 1311/EPA 8270C	U
Surrogate: 2-Fluorophenol		*37.7%*	*0.974-78.2*	*092710 1140*	*092910 1420*		*EPA 1311/EPA 8270C*	
Surrogate: Phenol-d5		*29.7%*	*0-57.5*	*092710 1140*	*092910 1420*		*EPA 1311/EPA 8270C*	
Surrogate: Nitrobenzene-d5		*78.8%*	*15.3-131*	*092710 1140*	*092910 1420*		*EPA 1311/EPA 8270C*	
Surrogate: 2-Fluorobiphenyl		*76.6%*	*3.75-142*	*092710 1140*	*092910 1420*		*EPA 1311/EPA 8270C*	
Surrogate: 2,4,6-Tribromophenol		*90.3%*	*12.5-139*	*092710 1140*	*092910 1420*		*EPA 1311/EPA 8270C*	
Surrogate: Terphenyl-d14		*94.2%*	*16.6-136*	*092710 1140*	*092910 1420*		*EPA 1311/EPA 8270C*	
Microbac Laboratories, Inc. - Ohio Valley								
TCLP HERBICIDES								
2,4-D	ND	20.0	ug/L	092910 0830	092910 2105	ECL	SW8151A	
2,4,5-TP (Silvex)	ND	2.00	ug/L	092910 0830	092910 2105	ECL	SW8151A	
Surrogate: 2,4-Dichlorophenylacetic acid		*35.7%*	*20-144*	*092910 0830*	*092910 2105*		*SW8151A*	

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Lewis B. Gunn III For Mark B. Horan, Laboratory Director

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

OH SPEE GYPSUM

10I1008-04 (Solid) Sampled: 09/15/2010 15:00; Type: Not Specified

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
Wet Chemistry								
% Solids	**80.23**	0.05	% by Weight	092410 1230	092710 0806	LCR	SM (20) 2540G	
Mercury, Total by EPA 7000 Series Methods								
Mercury	**0.15**	0.030	mg/kg dry	092710 1147	092810 1607	APS	SW846 7471A	D
Metals, Total by EPA 6000/7000 Series Methods								
Silver	ND	3.1	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Aluminum	**420**	15	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Arsenic	ND	6.1	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Barium	**32**	3.1	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Beryllium	ND	1.2	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Calcium	**260000**	310	mg/kg dry	092810 1055	093010 0940	APS	EPA 6010B	
Cadmium	ND	0.61	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Cobalt	ND	3.1	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Chromium	ND	3.1	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Copper	ND	3.1	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Iron	**720**	12	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Potassium	**160**	31	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Magnesium	ND	31	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Manganese	ND	3.1	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Sodium	**610**	610	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Nickel	ND	6.1	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Lead	ND	6.1	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Antimony	ND	12	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Selenium	ND	6.1	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Thallium	ND	12	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Vanadium	ND	3.1	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	
Zinc	ND	3.1	mg/kg dry	092810 1055	092910 1655	APS	EPA 6010B	B3

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

OH SPEE GYPSUM

10I1008-04 (Solid) Sampled: 09/15/2010 15:00; Type: Not Specified

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Extraction by EPA 1311								
Initial pH	8.0		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 1426	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	092410 1638	092710 1426	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	092410 1638	092710 1426	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	092410 1638	092710 1426	APS	EPA 6010B	D
Chromium	ND	0.20	mg/L	092410 1638	092710 1426	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	092810 1700	092910 1307	APS	SW846 7471A	D
Lead	ND	0.20	mg/L	092410 1638	092710 1426	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	092410 1638	092710 1426	APS	EPA 6010B	D
Polychlorinated Biphenyls by EPA Method 8082								
Aroclor 1016	ND	0.12	mg/kg dry	092310 1100	092310 1605	RCS	EPA 8082	U, D
Aroclor 1221	ND	0.12	mg/kg dry	092310 1100	092310 1605	RCS	EPA 8082	U, D
Aroclor 1232	ND	0.12	mg/kg dry	092310 1100	092310 1605	RCS	EPA 8082	U, D
Aroclor 1242	ND	0.12	mg/kg dry	092310 1100	092310 1605	RCS	EPA 8082	U, D
Aroclor 1248	ND	0.12	mg/kg dry	092310 1100	092310 1605	RCS	EPA 8082	U, D
Aroclor 1254	ND	0.12	mg/kg dry	092310 1100	092310 1605	RCS	EPA 8082	U, D
Aroclor 1260	ND	0.12	mg/kg dry	092310 1100	092310 1605	RCS	EPA 8082	D, U
Total PCBs	ND	0.12	mg/kg dry	092310 1100	092310 1605	RCS	EPA 8082	U, D
Surrogate: Tetrachloro-m-xylene		*67.0%*	*20.9-112*	*092310 1100*	*092310 1605*		*EPA 8082*	
Surrogate: Decachlorobiphenyl		*56.0%*	*31.3-109*	*092310 1100*	*092310 1605*		*EPA 8082*	

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Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

OH SPEE GYPSUM

10I1008-04 (Solid) Sampled: 09/15/2010 15:00; Type: Not Specified

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	092010 0617	092010 1502	TDH	EPA 1311/EPA 8260B	D, U
Carbon Tetrachloride	ND	0.25	mg/L	092010 0617	092010 1502	TDH	EPA 1311/EPA 8260B	U, D
Chlorobenzene	ND	0.25	mg/L	092010 0617	092010 1502	TDH	EPA 1311/EPA 8260B	U, D
Chloroform	ND	0.25	mg/L	092010 0617	092010 1502	TDH	EPA 1311/EPA 8260B	U, D
1,2-Dichloroethane	ND	0.25	mg/L	092010 0617	092010 1502	TDH	EPA 1311/EPA 8260B	U, D
1,1-Dichloroethene	ND	0.25	mg/L	092010 0617	092010 1502	TDH	EPA 1311/EPA 8260B	U, D
2-Butanone (MEK)	ND	1.3	mg/L	092010 0617	092010 1502	TDH	EPA 1311/EPA 8260B	U, D
Tetrachloroethene	ND	0.25	mg/L	092010 0617	092010 1502	TDH	EPA 1311/EPA 8260B	U, D
Trichloroethene	ND	0.25	mg/L	092010 0617	092010 1502	TDH	EPA 1311/EPA 8260B	U, D
Vinyl chloride	ND	0.25	mg/L	092010 0617	092010 1502	TDH	EPA 1311/EPA 8260B	U, D
Surrogate: Dibromofluoromethane		*101%*	*80-120*	*092010 0617*	*092010 1502*		*EPA 1311/EPA 8260B*	
Surrogate: 1,2-Dichloroethane-d4		*98.8%*	*80-120*	*092010 0617*	*092010 1502*		*EPA 1311/EPA 8260B*	
Surrogate: Toluene-d8		*95.4%*	*75-120*	*092010 0617*	*092010 1502*		*EPA 1311/EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*100%*	*60-149*	*092010 0617*	*092010 1502*		*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 1721	RCS	EPA 1311/8081A	U
Heptachlor	ND	0.00050	mg/L	092710 1340	092810 1721	RCS	EPA 1311/8081A	U
Heptachlor epoxide	ND	0.00050	mg/L	092710 1340	092810 1721	RCS	EPA 1311/8081A	U
Endrin	ND	0.0010	mg/L	092710 1340	092810 1721	RCS	EPA 1311/8081A	U
Methoxychlor	ND	0.0050	mg/L	092710 1340	092810 1721	RCS	EPA 1311/8081A	U
Toxaphene	ND	0.030	mg/L	092710 1340	092810 1721	RCS	EPA 1311/8081A	U
Technical Chlordane	ND	0.010	mg/L	092710 1340	092810 1721	RCS	EPA 1311/8081A	U
Surrogate: Tetrachloro-m-xylene		*93.3%*	*30-109*	*092710 1340*	*092810 1721*		*EPA 1311/8081A*	
Surrogate: Decachlorobiphenyl		*103%*	*30-112*	*092710 1340*	*092810 1721*		*EPA 1311/8081A*	

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

OH SPEE GYPSUM

10I1008-04 (Solid) Sampled: 09/15/2010 15:00; Type: Not Specified

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
Microbac Laboratories, Inc., Baltimore Division								
TCLP Semivolatiles by EPA Method 1311/8270C								
Total Cresols	ND	0.20	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
Pyridine	ND	0.50	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
1,4-Dichlorobenzene	ND	0.10	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
2-Methylphenol	ND	0.10	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
Hexachloroethane	ND	0.10	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
4-Methylphenol, 3-Methylphenol	ND	0.10	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
Nitrobenzene	ND	0.10	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
Hexachlorobutadiene	ND	0.10	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
2,4,6-Trichlorophenol	ND	0.10	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
2,4,5-Trichlorophenol	ND	0.10	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
2,4-Dinitrotoluene	ND	0.10	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
Hexachlorobenzene	ND	0.10	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
Pentachlorophenol	ND	0.50	mg/L	092710 1140	092910 1503	RCS	EPA 1311/EPA 8270C	U
Surrogate: 2-Fluorophenol		*43.9%*	*0.974-78.2*	*092710 1140*	*092910 1503*		*EPA 1311/EPA 8270C*	
Surrogate: Phenol-d5		*32.3%*	*0-57.5*	*092710 1140*	*092910 1503*		*EPA 1311/EPA 8270C*	
Surrogate: Nitrobenzene-d5		*81.4%*	*15.3-131*	*092710 1140*	*092910 1503*		*EPA 1311/EPA 8270C*	
Surrogate: 2-Fluorobiphenyl		*77.3%*	*3.75-142*	*092710 1140*	*092910 1503*		*EPA 1311/EPA 8270C*	
Surrogate: 2,4,6-Tribromophenol		*90.4%*	*12.5-139*	*092710 1140*	*092910 1503*		*EPA 1311/EPA 8270C*	
Surrogate: Terphenyl-d14		*81.4%*	*16.6-136*	*092710 1140*	*092910 1503*		*EPA 1311/EPA 8270C*	
Microbac Laboratories, Inc. - Ohio Valley								
TCLP HERBICIDES								
2,4-D	ND	20.0	ug/L	092910 0830	092910 2133	ECL	SW8151A	
2,4,5-TP (Silvex)	ND	2.00	ug/L	092910 0830	092910 2133	ECL	SW8151A	
Surrogate: 2,4-Dichlorophenylacetic acid		*69.6%*	*20-144*	*092910 0830*	*092910 2133*		*SW8151A*	

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COVER LETTER

Mike Parr
Mirant Corporation-Dickerson
21200 Martinsburg Rd.
Dickerson, MD 20842
RE: FGD-WW

October 25, 2010
Report No.: 10I1008

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 09/16/2010 17:00.

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
- Case Narative
- Test Results
- QC Summary
- Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

Final report reviewed by: Lewis B. Gunn III For Mark B. Horan/Laboratory Director

10/25/2010
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-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

Wet Chemistry - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1038237 - NO3 Prep										
Blank (1038237-BLK1)				Prepared & Analyzed: 09/17/2010						
Nitrate/Nitrite as N	ND	0.050	mg/L							
Blank (1038237-BLK2)				Prepared & Analyzed: 09/17/2010						
Nitrate/Nitrite as N	ND	0.050	mg/L							
LCS (1038237-BS1)				Prepared & Analyzed: 09/17/2010						
Nitrate/Nitrite as N	2.55		mg/L	2.500		102	90-110			
LCS (1038237-BS2)				Prepared & Analyzed: 09/17/2010						
Nitrate/Nitrite as N	2.60		mg/L	2.500		104	90-110			
Duplicate (1038237-DUP1)		**Source: 10I0963-01**		Prepared & Analyzed: 09/17/2010						
Nitrate/Nitrite as N	7.04	0.50	mg/L		7.75			9.66	200	
Duplicate (1038237-DUP2)		**Source: 10I0857-01**		Prepared & Analyzed: 09/17/2010						
Nitrate/Nitrite as N	0.390	0.050	mg/L		0.420			7.31	200	
Duplicate (1038237-DUP3)		**Source: 10I0795-01**		Prepared & Analyzed: 09/17/2010						
Nitrate/Nitrite as N	ND	0.050	mg/L		ND				200	
Matrix Spike (1038237-MS1)		**Source: 10I0963-01**		Prepared & Analyzed: 09/17/2010						
Nitrate/Nitrite as N	35.6	0.50	mg/L	25.00	7.75	111	80-120			
Matrix Spike (1038237-MS2)		**Source: 10I0857-01**		Prepared & Analyzed: 09/17/2010						
Nitrate/Nitrite as N	3.36	0.050	mg/L	2.500	0.420	118	80-120			
Matrix Spike (1038237-MS3)		**Source: 10I0795-01**		Prepared & Analyzed: 09/17/2010						
Nitrate/Nitrite as N	2.85	0.050	mg/L	2.500	ND	114	80-120			

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

Wet Chemistry - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1038239 - TKN Prep										
Blank (1038239-BLK1)				Prepared: 09/17/2010 Analyzed: 09/20/2010						
Total Kjeldahl Nitrogen	ND	1.0	mg/L							
LCS (1038239-BS1)				Prepared: 09/17/2010 Analyzed: 09/20/2010						
Total Kjeldahl Nitrogen	19.9	1.0	mg/L	20.00		99.4	89.6-111			
Duplicate (1038239-DUP1)		Source: 10I1010-01		Prepared: 09/17/2010 Analyzed: 09/20/2010						
Total Kjeldahl Nitrogen	11.2	1.0	mg/L		11.5			2.47	14	
Matrix Spike (1038239-MS1)		Source: 10I1010-01		Prepared: 09/17/2010 Analyzed: 09/20/2010						
Total Kjeldahl Nitrogen	31.1	1.0	mg/L	20.00	11.5	98.0	80-110			
Batch 1039032 - NH3 Prep										
Blank (1039032-BLK1)				Prepared & Analyzed: 09/20/2010						
Ammonia as N	ND	1.0	mg/L							
LCS (1039032-BS1)				Prepared & Analyzed: 09/20/2010						
Ammonia as N	20.2	1.0	mg/L	20.00		101	91-104			
Duplicate (1039032-DUP1)		Source: 10I1008-01		Prepared & Analyzed: 09/20/2010						
Ammonia as N	3.64	1.0	mg/L		3.64			0.00	10	
Matrix Spike (1039032-MS1)		Source: 10I1008-01		Prepared & Analyzed: 09/20/2010						
Ammonia as N	23.1	1.0	mg/L	20.00	3.64	97.3	88-110			
Batch 1039216 - % Solids										
Blank (1039216-BLK1)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	ND	0.05	% by Weight							

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Wet Chemistry - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1039216 - % Solids										
Blank (1039216-BLK2)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	ND	0.05	% by Weight							
Blank (1039216-BLK3)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	ND	0.05	% by Weight							
Blank (1039216-BLK4)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	ND	0.05	% by Weight							
Blank (1039216-BLK5)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	ND	0.05	% by Weight							
Blank (1039216-BLK6)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	ND	0.05	% by Weight							
Blank (1039216-BLK7)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	ND	0.05	% by Weight							
Blank (1039216-BLK8)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	ND	0.05	% by Weight							
LCS (1039216-BS1)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	2.01	0.05	% by Weight	2.000		101	80-120			
% Moisture	97.99	0.05	"	100.0		98.0	80-120			
LCS (1039216-BS2)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	2.01	0.05	% by Weight	2.000		100	80-120			
% Moisture	97.99	0.05	"	100.0		98.0	80-120			

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Wet Chemistry - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1039216 - % Solids										
LCS (1039216-BS3)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	2.00	0.05	% by Weight	2.000		100	80-120			
% Moisture	98.00	0.05	"	100.0		98.0	80-120			
LCS (1039216-BS4)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	2.00	0.05	% by Weight	2.000		100	80-120			
% Moisture	98.00	0.05	"	100.0		98.0	80-120			
LCS (1039216-BS5)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	2.00	0.05	% by Weight	2.000		100	80-120			
% Moisture	98.00	0.05	"	100.0		98.0	80-120			
LCS (1039216-BS6)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	2.01	0.05	% by Weight	2.000		101	80-120			
% Moisture	97.99	0.05	"	100.0		98.0	80-120			
LCS (1039216-BS7)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	2.01	0.05	% by Weight	2.000		101	80-120			
% Moisture	97.99	0.05	"	100.0		98.0	80-120			
LCS (1039216-BS8)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	2.02	0.05	% by Weight	2.000		101	80-120			
% Moisture	97.98	0.05	"	100.0		98.0	80-120			
Duplicate (1039216-DUP1)		**Source: 10I1149-03**		Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	0.95	0.05	% by Weight		0.89			6.24	20	
% Moisture	99.05	0.05	"		99.11			0.0580	20	
Duplicate (1039216-DUP2)		**Source: 10I1188-01**		Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	77.29	0.05	% by Weight		75.76			1.99	20	
% Moisture	22.71	0.05	"		24.24			6.49	20	

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

Wet Chemistry - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1039216 - % Solids										
Duplicate (1039216-DUP3)		**Source: 10I1227-01**		Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	96.93	0.05	% by Weight		96.73			0.208	20	
% Moisture	3.07	0.05	"		3.27			6.36	20	
Duplicate (1039216-DUP4)		**Source: 10I1232-01**		Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	3.54	0.05	% by Weight		3.54			0.0690	20	
% Moisture	96.46	0.05	"		96.46			0.00254	20	
Duplicate (1039216-DUP5)		**Source: 10I1235-01**		Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	95.85	0.05	% by Weight		95.73			0.121	20	
% Moisture	4.15	0.05	"		4.27			2.75	20	
Duplicate (1039216-DUP6)		**Source: 10I1248-02**		Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	11.79	0.05	% by Weight		11.60			1.62	20	
% Moisture	88.21	0.05	"		88.40			0.215	20	
Duplicate (1039216-DUP7)		**Source: 10I1249-01**		Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	4.37	0.05	% by Weight		4.32			1.11	20	
% Moisture	95.63	0.05	"		95.68			0.0504	20	
Duplicate (1039216-DUP8)		**Source: 10I1252-01**		Prepared: 09/24/2010 Analyzed: 09/27/2010						
% Solids	3.80	0.05	% by Weight		3.80			0.0229	20	
% Moisture	96.20	0.05	"		96.20			0.000912	20	

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Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

Mercury, Total by EPA 7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040011 - Metals_Hg_Prep										
Blank (1040011-BLK1)				Prepared: 09/27/2010 Analyzed: 09/28/2010						
Mercury	ND	0.025	mg/kg wet							D
LCS (1040011-BS1)				Prepared: 09/27/2010 Analyzed: 09/28/2010						
Mercury	25.6	1.2	mg/kg wet	25.30		101	71.5-128.1			D
Duplicate (1040011-DUP1)		Source: 10I1188-01		Prepared: 09/27/2010 Analyzed: 09/28/2010						
Mercury	0.246	0.031	mg/kg dry		0.226			8.56	20	D
Matrix Spike (1040011-MS1)		Source: 10I1188-01		Prepared: 09/27/2010 Analyzed: 09/28/2010						
Mercury	0.540	0.032	mg/kg dry	0.3231	0.226	97.3	70-130			D
Matrix Spike Dup (1040011-MSD1)		Source: 10I1188-01		Prepared: 09/27/2010 Analyzed: 09/28/2010						
Mercury	0.542	0.032	mg/kg dry	0.3165	0.226	99.9	70-130	2.65	20	D
Batch M0I2902 - 1040011										
Instrument Blank (M0I2902-IBL1)				Prepared & Analyzed: 09/28/2010						
Mercury	ND	0.00020	ug/L							

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson	Project: FGD-WW	Report: 10I1008
21200 Martinsburg Rd.	Project Number: FGD WWT	Reported: 10/25/2010 15:36
Dickerson, MD 20842	Project Manager: Mike Parr	

Metals, Total by EPA 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040056 - EPA 3050B ICP										
Blank (1040056-BLK1)				Prepared: 09/28/2010 Analyzed: 09/29/2010						
Aluminum	2.59	1.2	mg/kg wet							B2
Antimony	ND	1.0	"							
Arsenic	ND	0.50	"							
Barium	ND	0.25	"							
Beryllium	ND	0.10	"							
Cadmium	ND	0.050	"							
Calcium	9.68	2.5	"							B2
Chromium	ND	0.25	"							
Cobalt	ND	0.25	"							
Copper	ND	0.25	"							
Iron	ND	1.0	"							
Lead	ND	0.50	"							
Magnesium	ND	2.5	"							
Manganese	ND	0.25	"							
Nickel	ND	0.50	"							
Potassium	3.01	2.5	"							B2
Selenium	ND	0.50	"							
Silver	ND	0.25	"							
Sodium	ND	50	"							
Thallium	ND	1.0	"							
Vanadium	ND	0.25	"							
Zinc	0.756	0.25	"							B
LCS (1040056-BS1)				Prepared: 09/28/2010 Analyzed: 09/29/2010						
Aluminum	11700	12	mg/kg wet	10700		109	47.5-152.3			
Antimony	101	10	"	117.0		86.5	0-240			
Arsenic	138	5.0	"	138.0		100	82.6-117.4			
Barium	280	2.5	"	269.0		104	79.2-120.8			
Beryllium	153	1.0	"	157.0		97.3	83.4-117.2			
Cadmium	73.9	0.50	"	71.00		104	83-116.9			
Calcium	9650	25	"	9660		99.9	83.1-117			
Chromium	102	2.5	"	105.0		97.6	80.3-119			
Cobalt	141	2.5	"	142.0		99.1	83.1-116.2			
Copper	110	2.5	"	110.0		99.7	82.9-116.4			
Iron	20300	10	"	19100		106	50.5-149.2			
Lead	147	5.0	"	144.0		102	81.2-118.8			

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Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

Metals, Total by EPA 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040056 - EPA 3050B ICP										
LCS (1040056-BS1)				Prepared: 09/28/2010 Analyzed: 09/29/2010						
Magnesium	4700	25	mg/kg wet	4410		106	75.3-124.7			
Manganese	541	2.5	"	539.0		100	82.4-117.8			
Nickel	123	5.0	"	130.0		94.5	81.5-118.5			
Potassium	5260	25	"	5000		105	71.6-128.4			
Selenium	199	5.0	"	200.0		99.6	80-120			
Silver	45.2	2.5	"	45.10		100	66.3-133.7			
Sodium	725	500	"	653.0		111	73.8-126.3			
Thallium	161	10	"	161.0		99.9	78.9-121.1			
Vanadium	66.6	2.5	"	67.00		99.4	68.1-131.9			
Zinc	235	2.5	"	223.0		106	80.3-120.2			
Duplicate (1040056-DUP1)		**Source: 10I1188-01**		Prepared: 09/28/2010 Analyzed: 09/29/2010						
Aluminum	525	16	mg/kg dry		470			11.1	20	
Antimony	ND	13	"		ND				20	
Arsenic	2.54	6.4	"		ND				20	
Barium	33.8	3.2	"		33.4			1.17	20	
Beryllium	ND	1.3	"		ND				20	
Cadmium	0.254	0.64	"		0.233			8.65	20	
Calcium	262000	320	"		255000			2.42	20	
Chromium	1.65	3.2	"		0.613				20	
Cobalt	0.519	3.2	"		0.597			13.9	20	
Copper	0.684	3.2	"		0.757			10.1	20	
Iron	811	13	"		711			13.1	20	
Lead	ND	6.4	"		ND				20	
Magnesium	ND	32	"		ND				20	
Manganese	3.82	3.2	"		1.77			73.1	20	R1
Nickel	ND	6.4	"		1.32				20	
Potassium	201	32	"		211			4.56	20	
Selenium	ND	6.4	"		ND				20	
Silver	ND	3.2	"		ND				20	
Sodium	620	640	"		582			6.31	20	
Thallium	7.03	13	"		4.21			50.2	20	R3
Vanadium	1.48	3.2	"		1.32			11.3	20	
Zinc	ND	3.2	"		ND				20	

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Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 1011008 Reported: 10/25/2010 15:36

Metals, Total by EPA 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040056 - EPA 3050B ICP										
Matrix Spike (1040056-MS1)		**Source: 1011188-01**		Prepared: 09/28/2010 Analyzed: 09/29/2010						
Aluminum	921	16	mg/kg dry	321.6	470	140	70-130			M1
Antimony	ND	13	"	64.32	ND		70-130			M5
Arsenic	66.4	6.4	"	64.32	ND	103	70-130			
Barium	99.9	3.2	"	64.32	33.4	103	70-130			
Beryllium	65.4	1.3	"	64.32	ND	102	70-130			
Cadmium	63.3	0.64	"	64.32	0.233	98.0	80-120			
Chromium	64.6	3.2	"	64.32	0.613	99.5	70-130			
Cobalt	64.0	3.2	"	64.32	0.597	98.6	70-130			
Copper	67.1	3.2	"	64.32	0.757	103	80-120			
Iron	1080	13	"	321.6	711	116	70-130			
Lead	60.6	6.4	"	64.32	ND	94.3	80-120			
Magnesium	226	32	"	643.2	ND	35.1	70-130			M1
Manganese	66.8	3.2	"	64.32	1.77	101	70-130			
Nickel	63.5	6.4	"	64.32	1.32	96.7	80-120			
Potassium	961	32	"	643.2	211	117	70-130			
Selenium	54.7	6.4	"	64.32	ND	85.0	70-130			
Silver	27.1	3.2	"	32.16	ND	84.3	70-130			
Sodium	1240	640	"	643.2	582	102	70-130			
Thallium	66.2	13	"	64.32	4.21	96.4	70-130			
Vanadium	65.3	3.2	"	64.32	1.32	99.4	70-130			
Zinc	64.2	3.2	"	64.32	ND	99.8	80-120			
Matrix Spike Dup (1040056-MSD1)		**Source: 1011188-01**		Prepared: 09/28/2010 Analyzed: 09/29/2010						
Aluminum	948	16	mg/kg dry	318.2	470	150	70-130	7.04	20	M1
Antimony	ND	13	"	63.64	ND		70-130		20	M5
Arsenic	66.7	6.4	"	63.64	ND	105	70-130	1.51	20	
Barium	99.1	3.2	"	63.64	33.4	103	70-130	0.205	20	
Beryllium	64.3	1.3	"	63.64	ND	101	70-130	0.588	20	
Cadmium	62.7	0.64	"	63.64	0.233	98.1	80-120	0.102	20	
Chromium	64.5	3.2	"	63.64	0.613	100	70-130	0.955	20	
Cobalt	63.1	3.2	"	63.64	0.597	98.2	70-130	0.388	20	
Copper	66.2	3.2	"	63.64	0.757	103	80-120	0.272	20	
Iron	1110	13	"	318.2	711	125	70-130	7.30	20	
Lead	62.7	6.4	"	63.64	ND	98.5	80-120	4.40	20	
Magnesium	371	32	"	636.4	ND	58.3	70-130	49.5	20	M1
Manganese	66.9	3.2	"	63.64	1.77	102	70-130	1.27	20	

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

Metals, Total by EPA 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040056 - EPA 3050B ICP										
Matrix Spike Dup (1040056-MSD1)		**Source: 10I1188-01**		Prepared: 09/28/2010 Analyzed: 09/29/2010						
Nickel	63.8	6.4	mg/kg dry	63.64	1.32	98.2	80-120	1.58	20	
Potassium	943	32	"	636.4	211	115	70-130	1.26	20	
Selenium	53.7	6.4	"	63.64	ND	84.5	70-130	0.657	20	
Silver	26.7	3.2	"	31.82	ND	84.0	70-130	0.305	20	
Sodium	1350	640	"	636.4	582	120	70-130	16.4	20	
Thallium	68.1	13	"	63.64	4.21	100	70-130	3.96	20	
Vanadium	64.6	3.2	"	63.64	1.32	99.4	70-130	0.0665	20	
Zinc	65.0	3.2	"	63.64	ND	102	80-120	2.29	20	
Post Spike (1040056-PS1)		**Source: 10I1188-01**		Prepared & Analyzed: 09/29/2010						
Aluminum	5.95		mg/L	5.000	0.739	104	75-125			
Antimony	0.600		"	1.000	-0.0997	70.0	75-125			M5
Arsenic	1.04		"	1.000	0.00117	104	75-125			
Barium	1.09		"	1.000	0.0525	104	75-125			
Beryllium	1.05		"	1.000	0.0000598	105	75-125			
Cadmium	0.996		"	1.000	0.000367	99.6	90-110			
Chromium	1.02		"	1.000	0.000965	101	75-125			
Cobalt	1.02		"	1.000	0.000940	101	75-125			
Copper	1.06		"	1.000	0.00119	106	90-110			
Iron	6.23		"	5.000	1.12	102	75-125			
Lead	1.01		"	1.000	0.000735	101	90-110			
Magnesium	9.50		"	10.00	-0.759	103	75-125			
Manganese	1.03		"	1.000	0.00279	103	75-125			
Nickel	1.01		"	1.000	0.00207	101	90-110			
Potassium	11.5		"	10.00	0.331	112	75-125			
Selenium	1.02		"	1.000	-0.0196	104	75-125			
Silver	0.493		"	0.5000	-0.00586	99.7	75-125			
Sodium	11.1		"	10.00	0.916	102	75-125			
Thallium	1.05		"	1.000	0.00663	104	75-125			
Vanadium	1.00		"	1.000	0.00208	100	75-125			
Zinc	1.04		"	1.000	-0.00229	104	90-110			

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Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

Metals, Total by EPA 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040056 - EPA 3050B ICP										
Post Spike (1040056-PS2)		**Source: 10I1188-01**		Prepared: 09/29/2010 Analyzed: 09/30/2010						
Calcium	50.5		mg/L	10.00	40.2	103	75-125			
Batch M0I3005 - 1040056										
Instrument Blank (M0I3005-IBL1)				Prepared & Analyzed: 09/29/2010						
Aluminum	ND	0.025	mg/L							
Antimony	ND	0.010	"							
Arsenic	ND	0.0050	"							
Barium	ND	0.0050	"							
Beryllium	ND	0.0010	"							
Cadmium	ND	0.00050	"							
Calcium	ND	0.050	"							
Chromium	ND	0.0010	"							
Cobalt	ND	0.0050	"							
Copper	ND	0.0010	"							
Iron	ND	0.0050	"							
Lead	ND	0.010	"							
Magnesium	ND	0.010	"							
Manganese	ND	0.0050	"							
Nickel	ND	0.010	"							
Potassium	ND	0.010	"							
Selenium	ND	0.010	"							
Silver	ND	0.0010	"							
Sodium	ND	1.0	"							
Thallium	ND	0.020	"							
Vanadium	ND	0.0050	"							
Zinc	ND	0.0050	"							

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Mirant Corporation-Dickerson	Project: FGD-WW	Report: 10I1008
21200 Martinsburg Rd.	Project Number: FGD WWT	Reported: 10/25/2010 15:36
Dickerson, MD 20842	Project Manager: Mike Parr	

TCLP Metals by 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1039251 - EPA 1311/200.2 ICP										
Blank (1039251-BLK1)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
Arsenic	ND	0.20	mg/L							D
Barium	ND	0.50	"							D
Cadmium	ND	0.20	"							D
Chromium	ND	0.20	"							D
Lead	ND	0.20	"							D
Selenium	ND	0.20	"							D
Silver	ND	0.20	"							D
Blank (1039251-BLK2)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
Arsenic	ND	0.20	mg/L							D
Barium	ND	0.50	"							D
Cadmium	ND	0.20	"							D
Chromium	ND	0.20	"							D
Lead	0.743	0.20	"							B3, D
Selenium	ND	0.20	"							D
Silver	ND	0.20	"							D
LCS (1039251-BS1)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
Arsenic	0.993	0.020	mg/L	1.000		99.3	85-115			
Barium	0.995	0.050	"	1.000		99.5	85-115			
Cadmium	0.987	0.020	"	1.000		98.7	85-115			
Chromium	0.982	0.020	"	1.000		98.2	85-115			
Lead	0.996	0.020	"	1.000		99.6	85-115			B
Selenium	0.978	0.020	"	1.000		97.8	85-115			
Silver	0.491	0.020	"	0.5000		98.3	85-115			
LCS (1039251-BS2)				Prepared: 09/24/2010 Analyzed: 09/27/2010						
Arsenic	0.196	0.020	mg/L	0.2000		97.9	85-115			
Barium	0.199	0.050	"	0.2000		99.3	85-115			
Cadmium	0.197	0.020	"	0.2000		98.4	85-115			
Chromium	0.194	0.020	"	0.2000		97.2	85-115			
Lead	0.200	0.020	"	0.2000		100	85-115			B
Selenium	0.196	0.020	"	0.2000		98.2	85-115			
Silver	0.0976	0.020	"	0.1000		97.6	85-115			

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

TCLP Metals by 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1039251 - EPA 1311/200.2 ICP										
Duplicate (1039251-DUP1)		**Source: 10I1025-01**		Prepared: 09/24/2010 Analyzed: 09/27/2010						
Arsenic	ND	0.20	mg/L		ND				20	D
Barium	0.132	0.50	"		0.689			136	20	R3, D
Cadmium	ND	0.20	"		ND				20	D
Chromium	0.129	0.20	"		0.133			2.43	20	D
Lead	ND	0.20	"		ND				20	D
Selenium	ND	0.20	"		ND				20	D
Silver	ND	0.20	"		ND				20	D
Matrix Spike (1039251-MS1)		**Source: 10I1025-01**		Prepared: 09/24/2010 Analyzed: 09/27/2010						
Arsenic	0.956	0.20	mg/L	1.000	ND	95.6	50-150			D
Barium	1.58	0.50	"	1.000	0.689	89.3	50-150			D
Cadmium	0.983	0.20	"	1.000	ND	98.3	50-150			D
Chromium	1.11	0.20	"	1.000	0.133	98.0	50-150			D
Lead	0.971	0.20	"	1.000	ND	97.1	50-150			D, B
Selenium	0.970	0.20	"	1.000	ND	97.0	50-150			D
Silver	0.443	0.20	"	0.5000	ND	88.5	50-150			D
Batch 1040100 - Metals Hg TCLP Prep										
Blank (1040100-BLK1)				Prepared: 09/28/2010 Analyzed: 09/29/2010						
Mercury	ND	0.0020	mg/L							D
Blank (1040100-BLK2)				Prepared: 09/28/2010 Analyzed: 09/29/2010						
Mercury	ND	0.0020	mg/L							D
LCS (1040100-BS1)				Prepared: 09/28/2010 Analyzed: 09/29/2010						
Mercury	0.00205	0.00020	mg/L	0.002002		103	85-115			

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Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

TCLP Metals by 6000/7000 Series Methods - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040100 - Metals_Hg_TCLP_Prep										
Duplicate (1040100-DUP1)		**Source: 10I1025-01**		Prepared: 09/28/2010 Analyzed: 09/29/2010						
Mercury	ND	0.0020	mg/L		ND				20	D
Matrix Spike (1040100-MS1)		**Source: 10I1025-01**		Prepared: 09/28/2010 Analyzed: 09/29/2010						
Mercury	0.00248	0.0020	mg/L	0.002502	ND	99.3	70-130			D
Batch M0I2802 - 1039251										
Instrument Blank (M0I2802-IBL1)				Prepared & Analyzed: 09/27/2010						
Arsenic	ND	0.020	mg/L							
Barium	ND	0.050	"							
Cadmium	ND	0.020	"							
Chromium	ND	0.020	"							
Lead	ND	0.020	"							
Selenium	ND	0.020	"							
Silver	ND	0.020	"							

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Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1039186 - EPA 3550B										
Blank (1039186-BLK1)				Prepared & Analyzed: 09/23/2010						
Aroclor 1016	ND	0.10	mg/kg wet							U
Aroclor 1221	ND	0.10	"							U
Aroclor 1232	ND	0.10	"							U
Aroclor 1242	ND	0.10	"							U
Aroclor 1248	ND	0.10	"							U
Aroclor 1254	ND	0.10	"							U
Aroclor 1260	ND	0.10	"							U
Total PCBs	ND	0.10	"							U
Surrogate: Tetrachloro-m-xylene	*0.0690*		"	*0.1000*		*69.0*	*20.9-112*			
Surrogate: Decachlorobiphenyl	*0.0560*		"	*0.1000*		*56.0*	*31.3-109*			
LCS (1039186-BS1)				Prepared & Analyzed: 09/23/2010						
Aroclor 1016	0.903	0.10	mg/kg wet	1.000		90.3	48.7-116			
Aroclor 1260	0.693	0.10	"	1.000		69.3	54.8-128			
Surrogate: Tetrachloro-m-xylene	*0.0670*		"	*0.1000*		*67.0*	*20.9-112*			
Surrogate: Decachlorobiphenyl	*0.0530*		"	*0.1000*		*53.0*	*31.3-109*			
LCS Dup (1039186-BSD1)				Prepared & Analyzed: 09/23/2010						
Aroclor 1016	0.796	0.10	mg/kg wet	1.000		79.6	48.7-116	12.6	32.9	
Aroclor 1260	0.710	0.10	"	1.000		71.0	54.8-128	2.42	41.8	
Surrogate: Tetrachloro-m-xylene	*0.0670*		"	*0.1000*		*67.0*	*20.9-112*			
Surrogate: Decachlorobiphenyl	*0.0560*		"	*0.1000*		*56.0*	*31.3-109*			
Matrix Spike (1039186-MS1)		**Source: 10I1416-01**		Prepared: 09/23/2010 Analyzed: 09/24/2010						
Aroclor 1016	0.782	0.10	mg/kg dry	1.009	ND	77.5	21.7-123			D
Aroclor 1260	0.650	0.10	"	1.009	ND	64.4	50.1-119			D
Surrogate: Tetrachloro-m-xylene	*0.0605*		"	*0.1009*		*60.0*	*20.9-112*			
Surrogate: Decachlorobiphenyl	*0.0515*		"	*0.1009*		*51.0*	*31.3-109*			

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Mirant Corporation-Dickerson	Project: FGD-WW	Report: 10I1008
21200 Martinsburg Rd.	Project Number: FGD WWT	Reported: 10/25/2010 15:36
Dickerson, MD 20842	Project Manager: Mike Parr	

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1039186 - EPA 3550B										
Matrix Spike Dup (1039186-MSD1)		**Source: 10I1416-01**		Prepared: 09/23/2010 Analyzed: 09/24/2010						
Aroclor 1016	0.846	0.10	mg/kg dry	1.049	ND	80.6	21.7-123	3.92	32.4	
Aroclor 1260	0.707	0.10	"	1.049	ND	67.4	50.1-119	4.55	10.7	
Surrogate: Tetrachloro-m-xylene	*0.0630*		"	*0.1049*		*60.0*	*20.9-112*			
Surrogate: Decachlorobiphenyl	*0.0525*		"	*0.1049*		*50.0*	*31.3-109*			

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Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1039003 - EPA 5035										
Blank (1039003-BLK1)				Prepared & Analyzed: 09/20/2010						
Benzene	ND	0.25	mg/L							U, D
Carbon Tetrachloride	ND	0.25	"							U, D
Chlorobenzene	ND	0.25	"							U, D
Chloroform	ND	0.25	"							U, D
1,2-Dichloroethane	ND	0.25	"							U, D
1,1-Dichloroethene	ND	0.25	"							U, D
2-Butanone (MEK)	ND	1.2	"							U, D
Tetrachloroethene	ND	0.25	"							U, D
Trichloroethene	ND	0.25	"							U, D
Vinyl chloride	ND	0.25	"							U, D
Surrogate: Dibromofluoromethane	*26.7*		*ug/L*	*25.00*		*107*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*25.5*		*"*	*25.00*		*102*	*80-120*			
Surrogate: Toluene-d8	*23.9*		*"*	*25.00*		*95.6*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*24.9*		*"*	*25.00*		*99.8*	*60-149*			
LCS (1039003-BS1)				Prepared & Analyzed: 09/20/2010						
Benzene	0.0171	0.0050	mg/L	0.02000		85.5	72-132			
Carbon Tetrachloride	0.0211	0.0050	"	0.02000		106	63.3-142			
Chlorobenzene	0.0168	0.0050	"	0.02000		83.8	67.3-133			
Chloroform	0.0181	0.0050	"	0.02000		90.4	76.1-135			
1,2-Dichloroethane	0.0182	0.0050	"	0.02000		90.9	72.9-139			
1,1-Dichloroethene	0.0168	0.0050	"	0.02000		83.9	64.6-138			
2-Butanone (MEK)	0.0979	0.025	"	0.1000		97.9	45-128			
Tetrachloroethene	0.0156	0.0050	"	0.02000		78.0	69.9-125			
Trichloroethene	0.0169	0.0050	"	0.02000		84.5	73.7-130			
Vinyl chloride	0.0180	0.0050	"	0.02000		89.8	65.3-143			
Surrogate: Dibromofluoromethane	*25.4*		*ug/L*	*25.00*		*102*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*25.2*		*"*	*25.00*		*101*	*80-120*			
Surrogate: Toluene-d8	*23.8*		*"*	*25.00*		*95.2*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*		*"*	*25.00*		*94.4*	*60-149*			

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Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1039003 - EPA 5035										
LCS Dup (1039003-BSD1)				Prepared & Analyzed: 09/20/2010						
Benzene	0.0181	0.0050	mg/L	0.02000		90.4	72-132	5.63	200	
Carbon Tetrachloride	0.0209	0.0050	"	0.02000		104	63.3-142	1.14	200	
Chlorobenzene	0.0172	0.0050	"	0.02000		85.8	67.3-133	2.30	200	
Chloroform	0.0189	0.0050	"	0.02000		94.3	76.1-135	4.17	200	
1,2-Dichloroethane	0.0189	0.0050	"	0.02000		94.5	72.9-139	3.83	200	
1,1-Dichloroethene	0.0176	0.0050	"	0.02000		88.0	64.6-138	4.71	200	
2-Butanone (MEK)	0.0996	0.025	"	0.1000		99.6	45-128	1.71	200	
Tetrachloroethene	0.0158	0.0050	"	0.02000		78.8	69.9-125	1.02	200	
Trichloroethene	0.0170	0.0050	"	0.02000		84.9	73.7-130	0.472	200	
Vinyl chloride	0.0190	0.0050	"	0.02000		95.2	65.3-143	5.73	200	
Surrogate: Dibromofluoromethane	*25.8*		*ug/L*	*25.00*		*103*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*25.2*		*"*	*25.00*		*101*	*80-120*			
Surrogate: Toluene-d8	*23.7*		*"*	*25.00*		*94.7*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*25.2*		*"*	*25.00*		*101*	*60-149*			
Matrix Spike (1039003-MS1)		**Source: 10I0916-01**		Prepared & Analyzed: 09/20/2010						
Benzene	0.0197	0.0050	mg/L	0.02000	ND	98.7	76-127			
Carbon Tetrachloride	0.0201	0.0050	"	0.02000	ND	100	0-200			
Chlorobenzene	0.0196	0.0050	"	0.02000	ND	97.9	75-130			
Chloroform	0.0205	0.0050	"	0.02000	ND	103	0-200			
1,2-Dichloroethane	0.0196	0.0050	"	0.02000	ND	98.1	0-200			
1,1-Dichloroethene	0.0197	0.0050	"	0.02000	ND	98.4	61-145			
2-Butanone (MEK)	0.105	0.025	"	0.1000	ND	105	0-200			
Tetrachloroethene	0.0302	0.0050	"	0.02000	ND	151	0-200			
Trichloroethene	0.0206	0.0050	"	0.02000	ND	103	71-120			
Vinyl chloride	0.0210	0.0050	"	0.02000	ND	105	0-200			
Surrogate: Dibromofluoromethane	*24.9*		*ug/L*	*25.00*		*99.8*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*24.1*		*"*	*25.00*		*96.4*	*80-120*			
Surrogate: Toluene-d8	*23.4*		*"*	*25.00*		*93.6*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*24.8*		*"*	*25.00*		*99.2*	*60-149*			

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TCLP Volatile Organic Compounds by EPA Method 1311/8260B - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1039003 - EPA 5035										
Matrix Spike Dup (1039003-MSD1)		**Source: 10I0916-01**		Prepared & Analyzed: 09/20/2010						
Benzene	0.0200	0.0050	mg/L	0.02000	ND	100	76-127	1.26	11	
Carbon Tetrachloride	0.0205	0.0050	"	0.02000	ND	103	0-200	2.02	200	
Chlorobenzene	0.0197	0.0050	"	0.02000	ND	98.6	75-130	0.662	13	
Chloroform	0.0199	0.0050	"	0.02000	ND	99.7	0-200	2.82	200	
1,2-Dichloroethane	0.0202	0.0050	"	0.02000	ND	101	0-200	2.67	200	
1,1-Dichloroethene	0.0196	0.0050	"	0.02000	ND	97.8	61-145	0.662	14	
2-Butanone (MEK)	0.105	0.025	"	0.1000	ND	105	0-200	0.420	200	
Tetrachloroethene	0.0317	0.0050	"	0.02000	ND	158	0-200	4.88	200	
Trichloroethene	0.0204	0.0050	"	0.02000	ND	102	71-120	0.880	14	
Vinyl chloride	0.0202	0.0050	"	0.02000	ND	101	0-200	3.78	200	
Surrogate: Dibromofluoromethane	*25.4*		*ug/L*	*25.00*		*102*	*80-120*			
Surrogate: 1,2-Dichloroethane-d4	*24.3*		*"*	*25.00*		*97.3*	*80-120*			
Surrogate: Toluene-d8	*23.9*		*"*	*25.00*		*95.7*	*75-120*			
Surrogate: 4-Bromofluorobenzene	*25.0*		*"*	*25.00*		*100*	*60-149*			

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TCLP Pesticides by EPA Method 1311/8081A - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040073 - EPA 3510C										
Blank (1040073-BLK1)				Prepared: 09/27/2010 Analyzed: 09/28/2010						
gamma-BHC	ND	0.00050	mg/L							U
Heptachlor	ND	0.00050	"							U
Heptachlor epoxide	ND	0.00050	"							U
Endrin	ND	0.0010	"							U
Methoxychlor	ND	0.0050	"							U
Toxaphene	ND	0.030	"							U
Technical Chlordane	ND	0.010	"							U
Surrogate: Tetrachloro-m-xylene	*0.00333*		"	*0.005000*		*66.6*	*30-109*			
Surrogate: Decachlorobiphenyl	*0.00269*		"	*0.005000*		*53.8*	*30-112*			
LCS (1040073-BS1)				Prepared: 09/27/2010 Analyzed: 09/28/2010						
gamma-BHC	0.00450	0.00050	mg/L	0.005000		90.0	45-135			
Heptachlor	0.00409	0.00050	"	0.005000		81.9	40-118			
Heptachlor epoxide	0.00465	0.00050	"	0.005000		92.9	57-107			
Endrin	0.00498	0.0010	"	0.005000		99.5	66-119			
Methoxychlor	0.00569	0.0050	"	0.005000		114	46-152			
Surrogate: Tetrachloro-m-xylene	*0.00356*		"	*0.005000*		*71.3*	*30-109*			
Surrogate: Decachlorobiphenyl	*0.00328*		"	*0.005000*		*65.7*	*30-112*			
LCS Dup (1040073-BSD1)				Prepared: 09/27/2010 Analyzed: 09/28/2010						
gamma-BHC	0.00520	0.00050	mg/L	0.005000		104	45-135	14.5	200	
Heptachlor	0.00479	0.00050	"	0.005000		95.9	40-118	15.7	200	
Heptachlor epoxide	0.00515	0.00050	"	0.005000		103	57-107	10.3	200	
Endrin	0.00541	0.0010	"	0.005000		108	66-119	8.43	200	
Methoxychlor	0.00605	0.0050	"	0.005000		121	46-152	6.21	200	
Surrogate: Tetrachloro-m-xylene	*0.00369*		"	*0.005000*		*73.9*	*30-109*			
Surrogate: Decachlorobiphenyl	*0.00370*		"	*0.005000*		*73.9*	*30-112*			

Microbac Laboratories, Inc., Baltimore Division

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Lewis B. Gunn III For Mark B. Horan, Laboratory Director

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

TCLP Semivolatiles by EPA Method 1311/8270C - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040072 - EPA 3510C										
Blank (1040072-BLK1)				Prepared: 09/27/2010 Analyzed: 09/29/2010						
Total Cresols	ND	0.20	mg/L							U
Pyridine	ND	0.50	"							U
1,4-Dichlorobenzene	ND	0.10	"							U
2-Methylphenol	ND	0.10	"							U
Hexachloroethane	ND	0.10	"							U
4-Methylphenol, 3-Methylphenol	ND	0.10	"							U
Nitrobenzene	ND	0.10	"							U
Hexachlorobutadiene	ND	0.10	"							U
2,4,6-Trichlorophenol	ND	0.10	"							U
2,4,5-Trichlorophenol	ND	0.10	"							U
2,4-Dinitrotoluene	ND	0.10	"							U
Hexachlorobenzene	ND	0.10	"							U
Pentachlorophenol	ND	0.50	"							U
Surrogate: 2-Fluorophenol	*0.141*		"	*0.3750*		*37.6*	*0.974-78.2*			
Surrogate: Phenol-d5	*0.117*		"	*0.3750*		*31.2*	*0-57.5*			
Surrogate: Nitrobenzene-d5	*0.187*		"	*0.2500*		*74.7*	*15.3-131*			
Surrogate: 2-Fluorobiphenyl	*0.207*		"	*0.2500*		*82.9*	*3.75-142*			
Surrogate: 2,4,6-Tribromophenol	*0.320*		"	*0.3750*		*85.3*	*12.5-139*			
Surrogate: Terphenyl-d14	*0.204*		"	*0.2500*		*81.7*	*16.6-136*			
LCS (1040072-BS1)				Prepared: 09/27/2010 Analyzed: 09/29/2010						
Pyridine	0.0754	0.50	mg/L	0.2500		30.1	24-154			U
1,4-Dichlorobenzene	0.145	0.10	"	0.2500		57.9	38-126			
2-Methylphenol	0.132	0.10	"	0.2500		52.9	27-129			
Hexachloroethane	0.151	0.10	"	0.2500		60.3	32-155			
4-Methylphenol, 3-Methylphenol	0.123	0.10	"	0.2500		49.1	17-124			
Nitrobenzene	0.180	0.10	"	0.2500		71.8	40-130			
Hexachlorobutadiene	0.160	0.10	"	0.2500		63.9	35-122			
2,4,6-Trichlorophenol	0.186	0.10	"	0.2500		74.4	27-128			
2,4,5-Trichlorophenol	0.188	0.10	"	0.2500		75.1	22-136			
2,4-Dinitrotoluene	0.218	0.10	"	0.2500		87.4	34-126			
Hexachlorobenzene	0.183	0.10	"	0.2500		73.3	28-131			
Pentachlorophenol	0.166	0.50	"	0.2500		66.3	22-130			U
Surrogate: 2-Fluorophenol	*0.128*		"	*0.3750*		*34.0*	*0.974-78.2*			
Surrogate: Phenol-d5	*0.0932*		"	*0.3750*		*24.9*	*0-57.5*			
Surrogate: Nitrobenzene-d5	*0.183*		"	*0.2500*		*73.3*	*15.3-131*			

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 10I1008 Reported: 10/25/2010 15:36

TCLP Semivolatiles by EPA Method 1311/8270C - Quality Control Summary

Microbac Laboratories, Inc., Baltimore Division

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1040072 - EPA 3510C										
LCS (1040072-BS1)				Prepared: 09/27/2010 Analyzed: 09/29/2010						
Surrogate: 2-Fluorobiphenyl	*0.187*		*mg/L*	*0.2500*		*74.9*	*3.75-142*			
Surrogate: 2,4,6-Tribromophenol	*0.279*		*"*	*0.3750*		*74.5*	*12.5-139*			
Surrogate: Terphenyl-d14	*0.172*		*"*	*0.2500*		*68.6*	*16.6-136*			
LCS Dup (1040072-BSD1)				Prepared: 09/27/2010 Analyzed: 09/29/2010						
Pyridine	0.0426	0.50	mg/L	0.2500		17.0	24-154	55.6	200	#, U
1,4-Dichlorobenzene	0.169	0.10	"	0.2500		67.7	38-126	15.7	200	
2-Methylphenol	0.152	0.10	"	0.2500		60.7	27-129	13.7	200	
Hexachloroethane	0.172	0.10	"	0.2500		68.9	32-155	13.3	200	
4-Methylphenol, 3-Methylphenol	0.143	0.10	"	0.2500		57.2	17-124	15.2	200	
Nitrobenzene	0.202	0.10	"	0.2500		80.9	40-130	11.9	200	
Hexachlorobutadiene	0.184	0.10	"	0.2500		73.5	35-122	14.0	200	
2,4,6-Trichlorophenol	0.223	0.10	"	0.2500		89.1	27-128	18.0	200	
2,4,5-Trichlorophenol	0.226	0.10	"	0.2500		90.3	22-136	18.5	200	
2,4-Dinitrotoluene	0.262	0.10	"	0.2500		105	34-126	18.0	200	
Hexachlorobenzene	0.213	0.10	"	0.2500		85.3	28-131	15.2	200	
Pentachlorophenol	0.190	0.50	"	0.2500		75.8	22-130	13.4	200	U
Surrogate: 2-Fluorophenol	*0.158*		*"*	*0.3750*		*42.1*	*0.974-78.2*			
Surrogate: Phenol-d5	*0.111*		*"*	*0.3750*		*29.6*	*0-57.5*			
Surrogate: Nitrobenzene-d5	*0.207*		*"*	*0.2500*		*82.7*	*15.3-131*			
Surrogate: 2-Fluorobiphenyl	*0.212*		*"*	*0.2500*		*84.8*	*3.75-142*			
Surrogate: 2,4,6-Tribromophenol	*0.327*		*"*	*0.3750*		*87.2*	*12.5-139*			
Surrogate: Terphenyl-d14	*0.192*		*"*	*0.2500*		*76.7*	*16.6-136*			

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Dickerson 21200 Martinsburg Rd. Dickerson, MD 20842	Project: FGD-WW Project Number: FGD WWT Project Manager: Mike Parr	Report: 1011008 Reported: 10/25/2010 15:36

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.
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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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: 3.00 °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:

Page ____ of ____

Client Name: Vulcan Mid Atlantic, Dickerson Gen. Sta.
Address: Attn: Mike Parr, 21200 Martinsburg Rd.
City, State: Dickerson, MD 20842
Contact: 301.601.6520
Telephone #: Vulcan Mid Atlantic, Dickerson Gen. Sta.

Project: NPDES YES/NO
Location:
PO # SUMA247972
MDE Drinking Water Certified Sampler? YES
Certification #

Turnaround Time (Required): [ ] Standard; [ ] RUSH* (notify lab) ____ (needed by)

Deliver EDD Type (Required): [ ] Level I (NAC); [ ] Level II **; [ ] Level III **; [ ] Level IV **; [ ] EDD; Format: ____; Comments:

Sampled by (PRINT): TONY HAI
Sampler Signature: [signature]
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: TClp

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers							Comments
[redacted]														[redacted]
FGD WWTP Fines		✓			9-15-10	1500	1			✓				None
OH Spec Gypsum		✓			9-15-10	1500	1			✓				None

101008

Possible Hazard Identification: [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive

Sample Disposition: [ ] Dispose as appropriate [ ] Return [ ] Archive

Number of Containers:
Cooler Number: 020
Temp upon receipt(°C): 3.0
Was Received on Ice or Refrigerated from Client: Yes / No

Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation
		9/16/10 18:40	[signature]	
[signature]		9/16/10 17:00	[signature]	MU
			Received for Lab By (signature)	

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: Dickerson
Form Completed By: [illegible]

Receipt Date / Time: 9/10/10 1260
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: 3.0 °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 ___ 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

___ 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: _____