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**west virginia** department of environmental protection

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Division of Water and Waste Management  
601 57th Street SE  
Charleston, West Virginia 25304-2345  
Phone: 304-926-0495  
Fax: 304-926-0496

Earl Ray Tomblin, Governor  
Randy C. Huffinan, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

June 12, 2014

SHANNON BAILEY, EXECUTIVE DIR  
BLUEFIELD SANITARY BOARD  
PO BOX 998  
BLUEFIELD, WV 24701

CERTIFIED RETURN RECEIPT REQUESTED

Dear Permittee:

Enclosed please find WV/NPDES Permit Number WV0023141 dated June 12, 2014.

Please note that a Discharge Monitoring Report (DMR) is to be completed and submitted to this Division each month.

Finally note that copies of all future correspondence regarding the permit must be forwarded to the Field Inspector and Field Supervisor at the following address:

Department of Environmental Protection  
Environmental Enforcement  
254 Industrial Drive  
Oak Hill, WV 25901--9714

Also, please note the attachment to this permit which describes the annual permit fee requirement. Reissuance of your permit does not change the annual fee billing cycle.

SHANNON BAILEY, EXECUTIVE DIR

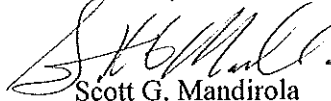
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June 12, 2014

Also, enclosed find Administrative Order No. 8084 for Permit No. WV0023141 requiring you to upgrade your treatment to meet the requirements of this Permit.

If you have any questions, please contact David Cole, P.E. of this Division at (304) 926-0499 at extension 1023.

Sincerely,

A handwritten signature in black ink, appearing to read "S. G. Mandirola", is written over the printed name.

Scott G. Mandirola  
Director

SGM:dhc

Enclosures

**Permit Number:** WV0023141

**Permittee:** BLUEFIELD SANITARY BOARD

**cc:** Bureau of Public Health  
Construction Assistance  
Env. Insp. Supv.  
Env. Insp.  
Public Service Commission  
US EPA



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WATER AND WASTE MANAGEMENT  
601 57TH STREET SE  
CHARLESTON, WV 25304-2345

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
WATER POLLUTION CONTROL PERMIT

NPDES PERMIT NO.: WV0023141

SUBJECT: Sewage

ISSUE DATE: June 12, 2014

EFFECTIVE DATE : August 01, 2014

EXPIRATION DATE: June 11, 2019

SUPERSEDES: Permit No. WV0023141  
dated March 31, 2009

LOCATION: BLUEFIELD  
(City)

Mercer  
(County)

Upper New River  
(Drainage Basin)

See the next page for a list of Outlets.

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**TO WHOM IT MAY CONCERN:**

This is to certify that: BLUEFIELD SANITARY BOARD  
PO BOX 998  
BLUEFIELD, WV 24701

is hereby granted a West Virginia NPDES Water Pollution Control Permit to:  
operate and maintain (2) existing wastewater collection systems and an existing 1.2 million gallons per day  
activated sludge wastewater treatment plant, which are further described as follows:

The wastewater collection system is comprised of approximately 158,400 linear feet of six (6) inch diameter gravity sewer line, 105,600 linear feet of eight (8) inch diameter gravity sewer line, 79,200 linear feet of 12 inch diameter sewer line, 10,600 linear feet of 15 inch diameter gravity sewer line, 10,500 linear feet of 24 inch diameter sewer line, 550 manholes, 1,500 cleanouts, 13 lift stations, three (3) simplex grinder pump stations, seven (7) duplex grinder pump stations, 500 linear feet of one and a half (1.5) inch diameter force main, 29,500 linear feet of four (4) inch diameter force main, 12,000 linear feet of eight (8) inch diameter force main, and all requisite appurtenances.

These facilities provide wastewater collection service to the City of Bluefield, the Brush Fork area and environs. Approximately eighty per cent of the flow is directed to the Board's Westside wastewater treatment plant, which is located in the Commonwealth of Virginia. Approximately twenty per cent of the flow is directed to the Board's Ada wastewater treatment plant, which is being permitted herein.

A 1.2 MGD wastewater treatment plant, identified as the Ada plant, comprised of a mechanical bar screen with grit removal facilities, two (2) primary clarifiers with a volume of 86,900 gallons each and a surface area of 970 square feet each, four (4) aeration chambers with a volume of 76,400 gallons each, two (2) secondary clarifiers with a volume of 52,900 gallons each and a surface area of 590 square feet each, an ultraviolet disinfection facilities, a post aeration chamber with a volume of 8,300 gallons, a gravity sludge thickener with a volume of 21,900 gallons, a sludge holding tank with a volume of 24,700 gallons, two (2) holding tanks with a volume of 52,900 gallons each which also serve as backup secondary clarifiers as well as an emergency spill facility and all requisite appurtenances.

These facilities are to serve a population equivalent of approximately 12,000 persons in the City of Bluefield, and

environs within the Ada service area, and discharge treated wastewater via Outlet 001 to the East River approximately 18.6 miles from its mouth of the New River of the Kanawha River.

**This permit is subject to the following terms and conditions :**

The information submitted on, and with, Permit Application No. WV0023141, dated the 30th day of September, 2013, is all hereby made terms and conditions of this Permit with like effect as if all such permit application information were set forth herein and with other conditions set forth in Sections A, B, C, and D and Appendix A.

**The validity of this permit is contingent upon the payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.**

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (in Mile)	Milepost
001	37°17'17"	81°09'41"	EAST RV	18.6	N/A
S01	37°17'17"	81°09'41"	N/A	N/A	N/A

**A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Final Limitations**

During the period beginning 8/1/2014 and lasting through midnight 6/11/2019 the permittee is authorized to discharge from Outlet Number(s) 001 (Sanitary)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			<u>Other Units</u>		<u>Units</u>	<u>Monitoring Requirements</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Rpt Only</u>	<u>Minimum</u>	<u>Avg. Monthly</u>		<u>Measurement Frequency</u>	<u>Sample Type</u>
50050 - (Flow, in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A			Rpt Only Max. Daily	Continuous	measured
00310 - (BOD, 5-Day 20 Deg.C) (Year Round) (ML-B) (RF-A)	300 Avg. Monthly	600 Max. Daily	N/A		30 Avg. Monthly	60 Max. Daily	1/week	8 hr comp
00530 - (Total Suspended Solids) (Year Round) (ML-A) (RF-A)	300 Avg. Monthly	600 Max. Daily	N/A		30 Avg. Monthly	60 Max. Daily	1/week	8 hr comp
81010 - (BOD, % Removal) (Year Round) (ML-K) (RF-A)	N/A	N/A	85 Month. Avg. Min.		N/A	N/A	4/Month	Calculated
81011 - (Suspended Solids, % Removal) (Year Round) (ML-K) (RF-A)	N/A	N/A	85 Month. Avg. Min.		N/A	N/A	4/Month	Calculated
74055 - (Coliform, Fecal) (Year Round) (ML-A) (RF-A)	N/A	N/A	N/A		200 Mon. Geo. Mean	400 Max. Daily	1/week	Grab
00400 - (pH) (Year Round) (ML-A) (RF-A)	N/A	N/A	6 Inst. Min.		N/A	9 Inst. Max.	1/week	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
 Effluent BOD5 samples shall be collected at a location immediately preceding disinfection. All other effluent samples shall be collected at, or as near as possible to, the point of discharge.

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

**A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Final Limitations**

During the period beginning 8/1/2014 and lasting through midnight 6/11/2019 the permittee is authorized to discharge from Outlet Number(s) 001 (Sanitary)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			<u>Monitoring Requirements</u>	
	<u>Quantity</u>	<u>Units</u>	<u>Other Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
00300 - (Dissolved Oxygen) (Year Round) (ML-A) (RF-A)	N/A	N/A	6 Inst. Min.	N/A	1/week Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-A) (RF-A)	19 Avg. Monthly	38 Max. Daily	N/A	1.9 Avg. Monthly	3.8 Max. Daily
01119 - (Copper, Total Recoverable) (Year Round) (ML-A) (RF-C)	N/A	N/A	N/A	Rpt Only Avg. Monthly	1/6 months 8 hr comp
01114 - (Lead, Total Recoverable) (Year Round) (ML-A) (RF-C)	N/A	N/A	N/A	Rpt Only Avg. Monthly	1/6 months 8 hr comp
01094 - (Zinc, Total Recoverable) (Year Round) (ML-A) (RF-C)	N/A	N/A	N/A	Rpt Only Avg. Monthly	1/6 months 8 hr comp
01002 - (Arsenic, Total (as As)) (Year Round) (ML-A) (RF-C)	N/A	N/A	N/A	Rpt Only Avg. Monthly	1/6 months 8 hr comp
01113 - (Cadmium, Total Recoverable) (Year Round) (ML-A) (RF-A)	N/A	N/A	N/A	0.0002 Avg. Monthly	0.0007 Max. Daily

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
Effluent BOD5 samples shall be collected at a location immediately preceding disinfection. All other effluent samples shall be collected at, or as near as possible to, the point of discharge.

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.



**A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Final Limitations**

During the period beginning 8/1/2014 and lasting through midnight 6/11/2019 the permittee is authorized to discharge from Outlet Number(s) 001 (Sanitary)

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>			<u>Other Units</u>		<u>Monitoring Requirements</u>		
	<u>Quantity</u>	<u>Units</u>	<u>Units</u>	<u>Other Units</u>	<u>Units</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
01032 - (Chromium, Hexavalent) (Year Round) (ML-A) (RF-C)	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	1/6 months	8 hr comp	
00718 - (Cyanide, Weak Acid Dissocial (Year Round) (ML-A) (RF-C)	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	1/6 months	Grab	
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-A) (RF-A)	N/A	N/A	N/A	0.0098 Avg. Monthly	0.02 Max. Daily	1/month	Grab	
01074 - (Nickel, Total Recoverable) (Year Round) (ML-A) (RF-C)	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	1/6 months	8 hr comp	
01079 - (Silver, Total Recoverable) (Year Round) (ML-A) (RF-C)	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	1/6 months	8 hr comp	
61426 - (Chronic Tox-Ceriodaphnia Du (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	1/year	8 hr comp	
61428 - (Chronic Toxicity - Pimephales (Year Round) (ML-A) (RF-D)	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	1/year	8 hr comp	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):  
 Effluent BOD5 samples shall be collected at a location immediately preceding disinfection. All other effluent samples shall be collected at, or as near as possible to, the point of discharge.

This discharge shall not cause violation of Title 47, Series 2, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

**A.S01 SEWAGE SLUDGE LIMITATIONS AND MONITORING REQUIREMENTS:**

**Final Limitations**

During the period beginning 8/1/2014 and lasting through midnight 6/11/2019 the permittee is authorized to dispose sludge in accordance with the following from Outlet Number S01 (Sludge)

<u>Effluent Characteristic</u>	<u>Quantity</u>	<u>Units</u>	<u>Limitations</u>	<u>Other Units</u>	<u>Units</u>	<u>Monitoring Requirements</u>	
						<u>Measurement Frequency</u>	<u>Sample Type</u>
74055 - (Coliform, Fecal) (Year Round) (ML+) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Maximum	1/quarter	Grab
00400 - (pH) (Year Round) (ML+) (RF-B)	N/A	N/A	Rpt Only Minimum	N/A	Rpt Only Maximum	1/quarter	Grab
61521 - (Arsenic, Sludge Tot Dry Wt.) (Year Round) (ML+) (RF-B)	N/A	N/A	N/A	N/A	20 Maximum	1/quarter	1 Week Comp
78476 - (Cadmium, Sludge, Tot Dry Wt.) (Year Round) (ML+) (RF-B)	N/A	N/A	N/A	N/A	39 Maximum	1/quarter	1 Week Comp
78473 - (Chromium, Dry Wt.) (Year Round) (ML+) (RF-B)	N/A	N/A	N/A	N/A	1000 Maximum	1/quarter	1 Week Comp
78475 - (Copper, Sludge, Tot, Dry Wt.) (Year Round) (ML+) (RF-B)	N/A	N/A	N/A	N/A	1500 Maximum	1/quarter	1 Week Comp
78468 - (Lead, Dry Wt.) (Year Round) (ML+) (RF-B)	N/A	N/A	N/A	N/A	250 Maximum	1/quarter	1 Week Comp

**A-S01 SEWAGE SLUDGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Final Limitations**

During the period beginning 8/1/2014 and lasting through midnight 6/11/2019 the permittee is authorized to dispose sludge in accordance with the following from Outlet Number S01 (Sludge)

<u>Effluent Characteristic</u>	<u>Quantity</u>		<u>Limitations</u>		<u>Other Units</u>		<u>Units</u>	<u>Monitoring Requirements</u>	
			<u>Units</u>	<u>Units</u>				<u>Measurement Frequency</u>	<u>Sample Type</u>
78471 - (Mercury, Dry Wt.) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	N/A	10 Maximum	1/quarter	1 Week Comp
78465 - (Molybdenum, Dry Wgt) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	N/A	18 Maximum	1/quarter	1 Week Comp
78469 - (Nickel, Dry Wt.) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	N/A	200 Maximum	1/quarter	1 Week Comp
49031 - (Selenium, Sludge, Tot. Dry Wt. (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	N/A	36 Maximum	1/quarter	1 Week Comp
78467 - (Zinc, Dry Wt.) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	N/A	2800 Maximum	1/quarter	1 Week Comp
00916 - (Calcium, Total (as Ca)) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	N/A	N/A	Rpt Only Maximum	1/quarter	1 Week Comp
61553 - (Solids, Total Sludge Percent) (Year Round) (ML-+) (RF-B)	N/A	N/A	Rpt Only Minimum	Rpt Only Avg.	Rpt Only Avg.	Rpt Only Maximum	Percent	1/quarter	1 Week Comp

**A.S01 SEWAGE SLUDGE LIMITATIONS AND MONITORING REQUIREMENTS:**  
**Final Limitations**

During the period beginning 8/1/2014 and lasting through midnight 6/11/2019 the permittee is authorized to dispose sludge in accordance with the following from Outlet Number S01 (Sludge)

<u>Effluent Characteristic</u>	<u>Quantity</u>	<u>Limitations</u>		<u>Other Units</u>	<u>Units</u>	<u>Monitoring Requirements</u>	
		<u>Units</u>	<u>Limitations</u>			<u>Measurement Frequency</u>	<u>Sample Type</u>
78472 - (Potassium, Sludge Tot. Dry Wt (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Maximum	1/quarter	1 Week Comp
78478 - (Phosphorus, Sludge, Tot, Dry Wt (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Maximum	1/quarter	1 Week Comp
82294 - (Nitrogen, Ammonia Tot. DW) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Maximum	1/quarter	1 Week Comp
78470 - (Nitrogen, Sludge Tot. Dry Wt) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Maximum	1/quarter	1 Week Comp
51020 - (Organic Nitrogen) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Maximum	1/quarter	1 Week Comp
00927 - (Magnesium, Tot (as Mg)) (Year Round) (ML-+) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Maximum	1/quarter	1 Week Comp

**B. SCHEDULE OF COMPLIANCE**

1. The permittee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :

Effective date of permit.

2. Reports of compliance or non-compliance with, and progress reports on interim and final requirements contained in the above compliance schedule, if any, shall be postmarked no later than 14 days following each schedule date.

## Section C - Other Requirements

01. The herein-described treatment works, structures, electrical and mechanical equipment shall be adequately protected from physical damage by the maximum expected one hundred (100) year flood level, and operability shall be maintained during the twenty-five (25) year flood level.
02. The entire sewage treatment facility shall be adequately protected by fencing.
03. The proper operation and maintenance of the listed sewage treatment facility shall be performed, or supervised, by a certified operator possessing at least a Class II certificate for Waste Water Treatment Plant Operators as issued by the State of West Virginia. The on-site attendance of this facility's Class II operator shall be determined and directed by the Bureau for Public Health, Office of Environmental Health Services.
04. The arithmetic mean of values for effluent samples collected in a period of seven (7) consecutive days shall not exceed 45.0 mg/l for five (5) day Biochemical Oxygen Demand (BOD5) and Total Suspended Solids (TSS). Furthermore, the permittee may submit mitigating factors as an attachment to its Discharge Monitoring Report (DMR) related to an excursion of this requirement. The Director may choose to take those mitigating factors into consideration in determining whether enforcement action is required.
05. The permittee shall submit monthly according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration and/or quantities the values of the constituents listed in Section A analytically determined to be in the plant effluent(s). Additional information pertaining to effluent monitoring and reporting can be found in Appendix A, Part III.
06. The required DMRs shall be received by the agency no later than 20 days following the end of the reporting period in accordance with the following requirements. The agency is now requiring the permittee to utilize our electronic discharge monitoring report (eDMR) system which is now mandatory. The permittee is not required to submit hard copies of the DMRs to the addresses listed below when using eDMR. Special circumstances may result in the agency granting an exemption to eDMR and are considered on case by case basis. If the permittee was exempted by the agency from using the eDMR system, then the permittee is required to send hard copies to the addresses below. The permittee may contact the agency for more information about the eDMR system and potential exemptions from using it. Regardless, in accordance with Appendix A, Section III.6 of this permit, the permittee shall maintain copies of DMRs (either hard copies or electronic copies) at the plant site and the DMRs shall be made readily available upon request for DEP personnel.
  - a. 

Director	U. S. Environmental Protection Agency
Division of Water and Waste Management	Region III, Water Protection Division
601 57th Street, SE	NPDES Enforcement Branch (3WP42)
Charleston, West Virginia 25304	1650 Arch Street
Attn: Permitting Branch	Philadelphia, PA 19103
- |  |
|--|
| Department of Environmental Protection |
| Environmental Enforcement              |
| 254 Industrial Drive                   |
| Oak Hill, West Virginia 25901          |
07. For any noncompliance reports required to be submitted in writing by Appendix A, Part IV, of this permit, a copy shall also be forwarded to the Environmental Protection Agency at the location specified in Section C.06, above.
08. The permittee shall not use alternate DMRs without prior approval from this agency.
09. The permittee shall not accept any new nondomestic discharges without first obtaining approval from the Director of the Division of Water and Waste Management, as provided in Title 47, Series 10, Section 14 of the West Virginia Legislative Rules.
10. If any existing nondomestic discharge causes, or is suspected of causing, interference or pass through, as defined by 40 CFR Part 403.3, or otherwise violates any provision of 40 CFR Part 403, the permittee shall notify the Director of such violation or suspected violation.
11. If any existing nondomestic discharge is identified as being subject to Categorical Pretreatment Standard under 40 CFR Chapter I, Subchapter N, and the discharge is not regulated by this permit, the permittee shall notify the Director of such identification.

## Section C - Other Requirements

12. Effluent monitoring for the following pollutants shall be conducted using the most sensitive methods and detection levels commercially available and economically feasible. The following methods are to be used unless the permittee desires to use an EPA Approved Test Method with a listed lower method detection level. Regardless, it is recognized that detection levels can vary from analysis to analysis and that non-detect results at a different MDL for the specified test method would not constitute a permit violation.

Parameter	EPA Method No.	Method Detection Level (ug/l)
Copper, Total Recoverable	200.8	0.5
Lead, Total Recoverable	200.8	0.6
Zinc, Total Recoverable	200.8	1.8
Chromium, Dissolved Hexavalent	218.6	0.6
Arsenic, Total	200.8	1.4
Nickel, Total Recoverable	200.8	0.5
Cadmium, Total Recoverable	200.8	0.5
Silver, Total Recoverable	200.8	0.1
Mercury, Total*	245.7	0.0018
Mercury, Total*	1631	0.0002
Cyanide, Free	Refer to Section C.14	

\*The permittee may use either Method 245.7 or Method 1631 for the analysis of mercury.

13. The analytical test procedures, set forth in 40 CFR Part 136, prescribe colorimetric methods for certain parameters. The digestion process for the performance of total recoverable is not sufficient for the utilization of a colorimetric procedure. Therefore, colorimetric procedures shall not be acceptable for the analysis of parameters prescribed as total recoverable.
14. For the measurement of Free Cyanide, the permittee shall use the standard method for weak acid dissociable cyanide, as specified in the latest edition of Standard Methods.
15. The permittee shall be required to test the wastewater treatment plant's influent in order to calculate the percent (%) removal parameters for BOD5 and TSS contained in Section A.001 of this permit. Influent sampling requirements include:
- Percent removal shall be defined as a percentage expression of the removal efficiency across the wastewater treatment plant for a given pollutant parameter, as determined from the thirty day average values of the influent concentrations to the facility and the thirty day average effluent pollutant concentrations. Only influent and effluent samples taken concurrently as specified below shall be used for reporting.
  - Influent BOD5 and TSS samples shall be collected using the permittee's established sampling schedule at least four (4) times per month for the wastewater treatment facility.
  - Influent BOD5 and TSS sampling shall be collected using the same sample type, as required in Section A.001, of this permit, for effluent BOD5 and TSS samples.
  - Influent BOD5 and TSS, sampling shall be performed over the same time period as effluent BOD5 and TSS sampling
16. The average daily design flow of the existing Publicly Owned Treatment Works has been established at 1.2 million gallons per day. When the average monthly effluent flow reported on Discharge Monitoring Reports reaches, or exceeds, 90 percent of the average design flow (1.1 million gallons per day) during three(3) consecutive monthly periods, the permittee shall submit a Plan of Action to the Director. The Plan of Action shall present, at a minimum, an analysis of current hydraulic and organic loadings on the plant, an analysis of the future projected loadings, and a Schedule of Tasks to accomplish procedures necessary to maintain required treatment levels.
17. Any future collection system extensions projected to cause an increase in the wastewater flow, equal to, or greater than, 60,000 gallons per day (five (5) percent of the design flow) shall require the permittee to contact the Director to secure approval of the extension. After consideration of the complexity of the project, and the available treatment capacity of the facility, the Director may require the permittee to seek approval through Modification of the Permit.
18. Over the term of this permit, the permittee is allowed up to three (3) excursions of the maximum daily fecal coliform effluent limitation prescribed in Section A.001. The number of allowed excursions is based upon one (1) percent (%) of the number of required self-monitoring events. Utilization of the excursion allowance is conditioned as follows:

## Section C - Other Requirements

18. a) Excursion allowances are afforded only to self-monitoring results and only when self-monitoring activities assess compliance with the maximum daily effluent limitation by analysis of an individual grab sample. No excursion allowance can be applied to analytical results obtained by representatives of the Director in the performance of their compliance assessment activities. Additionally, representatives of the Director may assess compliance with the maximum daily effluent limitation by collection and analysis of an individual grab sample.
  - b) No more than one (1) excursion may be utilized in any calendar month.
  - c) The excursion allowance is contingent upon the permittee's prompt return to compliance as evidenced by the next required fecal coliform self-monitoring event.
  - d) The result for which an excursion allowance is claimed shall be included in the calculation of the average monthly effluent value.
  - e) Should an excursion allowance be utilized by the permittee, said allowance must be reported as an attachment to the Discharge Monitoring Report. This attachment should state that (1) an excursion allowance was taken in accordance with the conditions outlined above, (2) the total number of allowances taken to date during the term of this permit, and (3) the total number of allowances remaining during the term of this permit. The permittee shall maintain an on-site record of the excursion allowances utilized during the term of the permit.
19. In incidences where a specific test method is not defined, the permittee shall utilize an EPA approved method with a method detection limit (MDL) sensitive enough to confirm compliance with the permit effluent limit for that parameter. If a MDL is not sensitive enough to confirm compliance, the most sensitive approved method must be used. If a more sensitive EPA approved method becomes available, that method shall be used. Should the current and/or new method not be sensitive enough to confirm compliance with the permitted effluent limit, analytical results reported as "not detected" at the MDL of the most sensitive method available will be deemed compliant for purposes of permit compliance. Results shall be reported on the Discharge Monitoring Reports as a numeric value less than the MDL.
20. Any "not detected (ND)" laboratory results from samples collected by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and must be reported as less than the MDL (<MDL) used. The permittee may not report the result as zero, "ND", or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL).

When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the result as less than the average calculation.

21. Unless otherwise authorized under Section A of this permit, any discharge from any point other than a permitted treatment outfall or permitted combined sewer system outfall is expressly prohibited. In the event there is a prohibited discharge from a sewer conveyance system, the permittee shall follow the reporting requirements contained in Appendix A, Part IV, Section 2.
22. The permittee shall annually perform chronic toxicity tests as described below, on the effluent from Outlet 001:
- a. Such testing will determine if an appropriate dilute effluent sample affects the survival or reproduction of the test species. Eight hour (8) flow weighted composite samples of the effluent, as prescribed in Section A, shall be collected for testing. An appropriate statistical test shall be used to determine whether differences in control and effluent data are significant.
    - 1) The permittee shall conduct a three brood (6-8 days) Ceriodaphnia Dubia survival and reproduction toxicity test on the final effluent diluted by appropriate control water. Toxicity will be demonstrated if there is a statistically significant difference at the 95 percent confident level in survival or reproduction between Ceriodaphnia Dubia exposed to an appropriate control water and the final effluent. All test solutions shall be renewed using an approved renewal schedule. If, in any control, more than 20% of the test organisms die, or less than 60% of surviving females in controls produced their third brood, that test shall be repeated.



## Section C - Other Requirements

22. a. 2) The permittee shall conduct a 7-day Pimephales Promelas fathead minnow larval survival and growth toxicity test on the final effluent diluted by appropriate control water. Toxicity will be demonstrated if there is a statistically significant difference at the 95 percent confidence level in survival or growth between fathead minnows exposed to an appropriate control water and the final effluent. All test solutions shall be renewed using an approved renewal schedule. If, in any control, more than 20% of the test organisms die, or average dry weight of surviving controls was less than 0.25 mg/l that test shall be repeated.
- b. Results shall be reported in terms of chronic toxic units (TUC) and shall be submitted with the corresponding monthly Discharge Monitoring Report (DMR).

$TUC = 100/NOEC$  or  $NOEL$

Where NOEC (or NOEL) is No Observed Effect Concentration (or Level), which is expressed as percent (volume) effluent in dilution water.

For Example, if NOEC is 10%,  $TUC = 100/10 = 10$

When the effluent demonstrates no toxicity at 100% effluent (no observed effect), the permittee may report zero TUC.

- c. The monitoring required, herein, shall be conducted in accordance with the sample collection, preservation, and analytical procedures specified in 40 CFR 136.
- d. In addition to the monitoring data reporting requirements of 40 CFR 136, the exact age of the test organisms at the initiation of the test shall be reported. Values of less than or equal to 24 hours are acceptable for Pimephales Promelas, fathead minnow. The range of the Ceriodaphnia Dubia used must be reported as a range in hours. All Ceriodaphnia Dubia used in the test must be less than 24 hours of age at test commencement. The age difference between the youngest and oldest Ceriodaphnia Dubia used in the test must not exceed eight (8) hours.
- e. The chronic toxicity testing shall be performed on an annual (1/year) basis. The first chronic toxicity testing shall be carried out within 6 months from the effective date of the permit for Outlet 001. There shall be a minimum of three (3) months between sampling events.
- f. If chronic effluent toxicity testing exceeds a trigger value of 1 TUC, the permittee shall immediately resample and test the effluent. This shall be performed within 30 days of the initial demonstration of the exceedance of the trigger value prescribed herein. Copies of the retesting results shall be provided to the Director immediately upon completion of the test.

If the second test is equal to or below the trigger value, chronic effluent toxicity testing shall continue in accordance with the requirements, as prescribed herein. However, if the second test shows an exceedance of the trigger value, the Director shall impose further requirements, as may be necessary.

- g. The Director may impose further requirements should the chronic effluent toxicity testing results demonstrate toxicity.
23. Because the permittee is using ultraviolet light as their disinfection method, no Total Residual Chlorine (TRC) effluent limitations shall currently be imposed. Should the permittee in the future decide to use chlorine as a disinfection method, TRC effluent limitations shall be promulgated and imposed.
24. The permittee shall be required to sample the discharge from Outlet No. 001 for the pollutants listed in Appendix J, Table 2 of 40 CFR 122 as part of its next reissuance permit application following the procedures listed below. This data shall be submitted along with the next reissuance permit application.
- a. Grab samples shall be collected for pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform, and volatile organics. Twenty-four (24) hour composite samples shall be collected for all other pollutants found in Appendix J, Table 2 of 40 CFR 122.
- b. A minimum of three (3) test results for each pollutant shall be obtained a minimum of four (4) months apart. Each sampling result shall be collected in a manner to be representative of seasonal variations (such as April, August, and December).

### Section C - Other Requirements

24. c. All data collected over the term of the previous permit for a specific pollutant shall be summarized and submitted to the agency by the permittee.
- d. The sample collection, preservation, and analysis shall be conducted in accordance with the procedures of 40 CFR Part 136. The permittee shall assure that the test procedure being utilized has an appropriate method detection level (MDL) for the parameters. Analyses shall be conducted using the most sensitive methods and detection levels commercially available, and economically feasible.
25. The permittee may accept domestic septage for subsequent treatment and disposal. Approval is subject to, and contingent upon, compliance with the following terms and conditions.
  - a. The septage hauler(s), from which the permittee accepts domestic septage, must have applied for registration to operate under the WV/NPDES General Permit No. WVSG20000 for septage handling and disposal.
  - b. Records shall be maintained which document the date, time, name of the hauler, and volume of septage accepted.
  - c. The permittee shall report monthly the amount of domestic septage accepted during the reporting period on the enclosed Sewage Sludge Management Report.
  - d. The permittee shall assure that the acceptance and processing of domestic septage does not result in effluent discharge limitation violations, or receiving stream degradation, or adversely impact proper sludge disposal.
  - e. Approval of the permittee's acceptance of domestic septage in no way relieves the permittee of its obligation to comply with all the terms and conditions of its WV/NPDES Water Pollution Control Permit and shall not constitute an affirmative defense in any enforcement action brought against the permittee.
26. Any proposed or existing nondomestic discharge to the portion of the wastewater collection system which is served by the Westside wastewater treatment plant in Virginia shall be regulated in accordance with the provisions of VPDES Permit No. VA0025054 issued by the Commonwealth of Virginia, and the terms and conditions, thereunder.
27. The permittee shall continue to implement a program to identify and eliminate sources of inflow and infiltration. A written progress report shall be provided on a semiannual basis, as an attachment to the Discharge Monitoring Report, detailing what has been performed in relation to the implementation and accomplishments of the inflow and infiltration elimination program. Failure of the permittee to comply with this requirement shall result in subsequent administrative and/or legal action, as may be necessary in order to obtain the compliance sought herein.
28. Storm water discharges associated with the wastewater treatment plant site are regulated under the Municipal Separate Storm Sewer System (MS4) General Permit.
29. The permittee shall perform a daily inspection of the ultraviolet disinfection facilities. A written log recording the date of the inspection, the name of the individual performing the inspection, any deficiencies, and any corrective action implemented shall be maintained. The log shall be maintained at the site and available for review by Division personnel.

## Section D - Sewage Sludge Management Requirements

01. The permittee shall monitor and report month on the enclosed Sewage Sludge Management Report form the quality and quantity of sewage sludge produced. The required report shall be received by the agency no later than 20 days following the end of the reporting period in accordance with the following requirements. The agency is now requiring the permittee to utilize our electronic discharge monitoring report (eDMR) system which is now mandatory. The permittee is not required to submit hard copies of the DMRs to the addresses listed below when using eDMR. Special circumstances may result in the agency granting an exemption to eDMR and are considered on case by case basis. If the permittee was exempted by the agency from using the eDMR system, then the permittee is required to send hard copies to the addresses below. The permittee may contact the agency for more information about the eDMR system and potential exemptions from using it. Regardless, in accordance with Appendix A, Section III.6 of this permit, the permittee shall maintain copies of DMRs (either hard copies or electronic copies) at the plant site and the DMRs shall be made readily available upon request for DEP personnel.

Director  
Division of Water and Waste Management  
601 57th Street, SE  
Charleston, West Virginia 25304  
Attn: Permitting Branch

02. The permittee shall provide copies of monthly reports to the county or regional solid waste authority in which the facility or land application site(s) is located.
03. The Sewage Sludge Monitoring Report form shall be submitted quarterly. The required report shall be received by the agency no later than 20 days following the end of the reporting period in accordance with the following requirements. The agency is now requiring the permittee to utilize our electronic discharge monitoring report (eDMR) system which is now mandatory. The permittee is not required to submit hard copies of the DMRs to the addresses listed below when using eDMR. Special circumstances may result in the agency granting an exemption to eDMR and are considered on case by case basis. If the permittee was exempted by the agency from using the eDMR system, then the permittee is required to send hard copies to the addresses below. The permittee may contact the agency for more information about the eDMR system and potential exemptions from using it. Regardless, in accordance with Appendix A, Section III.6 of this permit, the permittee shall maintain copies of DMRs (either hard copies or electronic copies) at the plant site and the DMRs shall be made readily available upon request for DEP personnel.

Director  
Division of Water and Waste Management  
601 57th Street, SE  
Charleston, West Virginia 25304  
Attn: Permitting Branch

04. The following method(s) of sludge disposal shall be used for sewage sludge generated and/or processed at the permitted facility:
- Land Application: Sewage sludge shall not be applied in a manner or in an amount that would cause the land application site(s) to exceed the annual, five (5) year cumulative, and lifetime loading rates as listed below. The following site(s) may be used for land application:

## Section D - Sewage Sludge Management Requirements

04. a.	Land Application Site(s)	Maximum Annual Loading Rate(s) Tons/Acre	Five (5) Year Cumulative Loading Rate(s) Tons/Acre	Lifetime Loading Rate(s) Tons/Acre
	-----			
	Nathan Toler			
	Field 1	13.5	53.8	137
	Field 2	13.5	53.8	137
	Field 3	13.5	53.8	137
	Field 4	13.5	53.8	137
	Bruce Lewis, Jr.			
	Field 1	13.5	53.8	130
	Field 3	13.5	53.8	130
	Field 5	13.5	53.8	130
	Field 6	13.5	53.8	130
	John Scott, Jr			
	Field 18	13.5	53.8	135
	Field 26	13.5	53.8	135
	Wayne Easter			
	Field 2	13.5	53.8	131
	Field 4	13.5	53.8	131
	Robert B. Lewis			
	Field 1	13.5	53.8	134
	Field 2	13.5	53.8	134
	Field 3	13.5	53.8	134

a.	Land Application Site(s)	Maximum Annual Loading Rate(s) Tons/Acre	Five (5) Year Cumulative Loading Rate(s) Tons/Acre	Lifetime Loading Rate(s) Tons/Acre
	-----			
	James D. Perkins			
	Field 1	13.5	53.8	132
	Field 2	13.5	53.8	132
	Field 4	13.5	53.8	132
	Field 5	13.5	53.8	132
	Field 5	13.5	53.8	132
	Rufus L. Reed			
	Field 1	13.5	53.8	142
	Field 2	13.5	53.8	142
	Field 3	13.5	53.8	142
	Field 4	13.5	53.8	142

- b. Landfill Disposal: Sewage sludge may also be disposed at a landfill by placing the sewage sludge in the landfill cell, provided that the landfill obtains approval from the Division of Water and Waste Management to allow the acceptance of sewage sludge from the permittee, and provided that the landfill(s) is/are identified in the permit application. Prior approval by the Division of Water and Waste Management is required to change landfill disposal site(s).
  - c. Sewage sludge produced by the Bluefield Sanitary Board treatment plant may be transported and placed in the wastewater treatment plant operated by the City of Princeton for final processing and disposal.
05. Sewage sludge shall not be applied to land that has any of the following siting restrictions and/or location standards:
- a. Land that is frozen, snow-covered, or known to be flooded on a regular basis unless the applicant can demonstrate to the Secretary that the land application will not cause runoff into streams or wetlands.
  - b. Land that is within 50 feet of surface water including any streams, springs, ponds, wetlands, or other collection points for surface water.

## Section D - Sewage Sludge Management Requirements

05. c. Land that is within 200 feet of drinking water supply wells or other personal water supply.
  - d. Land that is within 200 feet of an occupied dwelling.
  - e. Land that is within 50 feet of a federal or state highway.
  - f. Land that is within 100 feet of an adjacent property owner's property line.
  - g. Land that drains into a sinkhole.
  - h. Land that has been tested and determined to have a pH of less than 6.2 SUs, unless the pH is adjusted to 6.2 SUs or greater.
  - i. Land that has a slope greater than 15 percent.
  - j. Land that has a seasonal high groundwater table less than two (2) feet from the surface.
  - k. Land that has less than 6 inches of soil over bedrock or an impervious pan.
  - l. Land that contains soil with surface permeability of less than 0.6 inches/hour or greater than 6 inches/hour.
  - m. Land that, if sewage sludge was applied, is likely to adversely affect a threatened or endangered species listed under Section 4 of the Endangered Species Act or its designated critical habitat.
  - n. Other land determined by the Secretary to be unsuitable for application of sewage sludge.
06. The following requirements concerning crops grown on land used for application of sewage sludge, the time requirements between application of sewage sludge and the harvesting of crops, and the restrictions on animal grazing and public access shall be met:
- a. Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge.
  - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for four (4) months or longer prior to incorporation into the soil.
  - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four (4) months prior to incorporation into the soil.
  - d. Food crops (human consumption), feed crops (animal consumption), and fiber crops shall not be harvested for 30 days after application of sewage sludge.
  - e. Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.
  - f. Turf grown on land where sewage sludge is applied shall not be harvested for one (1) year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
  - g. Public access to land with a high potential for public exposure shall be restricted for one year after application of sewage sludge.
  - h. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.
07. Sewage sludge shall not be stored at a land application site for a period longer than one week; except, storage can be allowed for a period not to exceed three months when provisions, approved by the Director of the Division of Water and Waste Management of the Department, are made to prevent leachate runoff to the surface water and/or groundwater.
08. Sewage sludge shall only be land applied during the hours of daylight.
09. Sewage sludge which is land applied shall not contain excessive amounts of other solid waste materials, as defined in Title 33, Series 2, Section 2.34 of the Legislative Rules.
10. Areas used for processing, curing, and/or storage of sewage sludge shall be designed, constructed and operated to prevent release of contaminants to the groundwater and/or surface water.

## Section D - Sewage Sludge Management Requirements

11. The land application site(s) shall maintain the soil pH at a minimum of 6.2 SUs for at least five (5) years from the date of application. The soil pH and soil nutrients shall be monitored once per year by obtaining a composite sample of each field utilized for land application during the previous year. The composite samples shall be made up of a minimum of four (4) aliquots taken at locations equally spaced through the land application site(s). The samples may be analyzed through the WVU Extension Service or by other certified laboratories.
12. All analyses performed on soils and sewage sludges shall be analyzed in accordance with analytical methods listed in 40 CFR Part 503.8 except that Nutrients may be analyzed in accordance with the most recently approved edition of Standard Methods and pH may be analyzed using EPA Method 9045A. Additionally, Fecal Coliform samples shall be prepared for analysis by using the method described in EPA 625R-92/013, Appendix F.
13. Sewage sludge disposed in a landfill cell shall be a non-hazardous material as defined in 40 CFR Part 261.24 and a minimum of 20 percent solids. If the sewage sludge is not 20 percent solids, a bulking agent may be used to achieve 20 percent solids before the sewage sludge is weighed in at the landfill. Alternative sludge disposal methods at the landfill can be utilized upon obtaining prior written approval from the Director of the Division of Water and Waste Management.
14. If sewage sludge is used for revegetation, or spread in any other manner at the landfill, the sewage sludge shall meet all of the land application requirements. These requirements include vector attraction and pathogen reduction methods, heavy metals limits, and abiding by an approved loading rate based on soil analyses.
15. The following primary methods for pathogen reduction shall apply to the sewage sludge or sewage sludge products:
  - a. Lime Stabilization - Lime is added to maintain the sewage sludge pH above 12.0 SUs for at least two (2) hours after the lime addition. The permittee shall record the pH of the sewage sludge at least twice, once upon addition of lime and once two (2) hours after addition.
  - b. If compliance cannot be achieved using the primary method for pathogen reduction, then the permittee must obtain approval from the Director prior to use of a secondary method. The permittee shall not dispose of sewage sludge until approval of a secondary pathogen reduction method is granted.
16. The following primary methods for vector attraction reduction shall apply to the sewage sludge or sewage sludge products:
  - a. Lime Stabilization - Lime is added to maintain the sewage sludge pH above 12.0 SUs for two (2) hours and above 11.5 SUs for 24 hours after the lime addition. The permittee shall record the pH of the sewage sludge at the 0, 2, and 24 hour intervals of treatment, and record the duration of time (hours) that the pH is maintained at or above the specified minimum levels.
  - b. If compliance cannot be achieved using the primary method for vector attraction reduction, then the permittee must obtain approval from the Director prior to using a secondary method. The permittee shall not dispose of sewage sludge until approval of a secondary vector attraction reduction method is granted.
17. The permittee shall maintain all records and reports of all monitoring required by Section D of this permit for five (5) years after the date of monitoring or reporting. Records should include all sample results, including pathogen and vector attraction reduction monitoring; any landfill receipts; land application records, including site maps, the landowner agreement, soil sample results, daily and cumulative sludge loading rate information; copies of all required reports; and records of all data used to complete these reports.

## Section D - Sewage Sludge Management Requirements

18. The appropriate composite sampling procedures shall be based upon the particular sludge processing methods used by the permittee. The composite sampling procedures for the various methods are described as follows:

**Belt Press or Vacuum Filter** - During the week that the composite sample is obtained, the permittee shall take a minimum of three (3) grab samples during each day of the week that the dewatering system is in operation. These grab samples are to be mixed together and the final sample obtained from the composite. Samples should be collected at a point immediately after the dewatering operation.

**Liquid Sludge** - During the week that the composite sample is obtained, the permittee shall take a representative grab sample from each truck load of sewage sludge hauled during that week. These grab samples are to be mixed together and the final sample obtained from the composite. Samples should be collected from the sewage sludge being pumped into the truck or as the sewage sludge is being discharged from the truck.

**Sewage Sludge Drying Beds** - During the week that the composite sample is obtained, the permittee shall take a minimum of four (4) grab samples from each bed finished during that week. These grab samples are to be mixed together and the final sample obtained from the composite.

**Composting or Stock Piles** - The permittee shall obtain a minimum of eight (8) grab samples from the pile of finished product. These grab samples are to be mixed together and the final sample obtained from the composite.

19. Written notification shall be given to the Director within five (5) days of the determination of any excursion(s) of the maximum allowable limitations for sewage sludge listed in Section A.S01 of this Permit. A written plan to identify and correct the excursion(s) must be submitted to the Director within sixty (60) days.
20. When representatives of the Director are performing compliance assessment activities that are independent of the data provided by the permittee, no single instantaneous grab sample of the final sewage sludge product shall exceed the values found below as listed in Table 2 of the West Virginia Sewage Sludge Management Regulations (Title 33, Series 2).

Metal	Concentration (mg/kg)
-----	-----
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
Selenium	100
Zinc	7500

21. Sewage sludge shall not be land applied in a manner or in an amount that will cause the land application site(s) to exceed the maximum soil concentrations for the following heavy metals:

Parameter	Maximum Allowable Limitations For Soils (mg/kg)
-----	-----
Arsenic	13.0
Cadmium	2.4
Chromium	290.0
Copper	92.0
Lead	85.0
Mercury	2.4
Molybdenum	4.6
Nickel	83.0*
Selenium	10.0
Zinc	290.0**

- \* For sandy to silt loam soils with a permeability greater than 2.0 inches per hour, the maximum allowable soil concentration for nickel is 50.0 mg/kg.

## Section D - Sewage Sludge Management Requirements

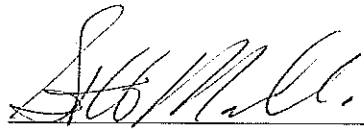
21. \*\* For those sites with greater than 30% legume species, the maximum allowable soil concentration for zinc is 130.0 mg/kg for sandy to silt loam soils with permeability greater than 2.0 inches per hour and 200.0 mg/kg for other soil types.
22. All land application site(s) shall have new soil analyses performed for the metals listed in Section A.S01 of this Permit when the cumulative loading reaches 50% of the assigned lifetime loading rate.
23. Should any landowner of a sludge land application site fail to comply with the terms and conditions pertaining to the landowner under an applicable landowner agreement, the permittee shall immediately contact said landowner and identify the violation causing the noncompliance with the said agreement. The permittee shall take all reasonable, escalating enforcement steps, up to and including disallowing further land application of sludge on the owner's site, in order to keep the landowner compliant with the terms and conditions of said land owner agreement. Also, the permittee shall immediately inform the Agency of any current noncompliance by the owner of a land application site by attaching a written summary of these violations, the cause of each violation, and the steps taken to prevent their recurrence with the submitted Sludge Monitoring Reports. Should the permittee take all of the enforcement steps outlined above, these actions may be used as a mitigating factor to any enforcement actions taken upon the permittee for the noncompliance by the land application site owners to the terms and conditions of Section D herein. However, the burden of proof in relation to the use of this mitigating factor shall lie exclusively upon the permittee. This condition shall not be used as a mitigating factor to any noncompliance associated with any other sections of this permit, even if said noncompliance is, in whole or in part, caused by the land application site owner.



The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0023141; with the plan of maintenance and method of operation thereof submitted with such application(s); and with any applicable rules and regulations promulgated by the Environmental Quality Board and the Secretary of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0023141; and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and the invocation of all the enforcement procedures set forth in Chapter 22, Article 11, or 15 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Article 11 and 12 and/or 15 of the Code of West Virginia and is transferable under the terms of Section 11 of Article 11.

  
\_\_\_\_\_  
Scott G. Mandirola, Director

# Appendix A

## I. MANAGEMENT CONDITIONS:

### 1. Duty to Comply

- a) The permittee must comply with all conditions of this permit. Permit noncompliance constitutes a violation of the CWA and State Act and is grounds for enforcement action; for permit modification, revocation and reissuance, suspension or revocation; or for denial of a permit renewal application.
- b) The permittee shall comply with all effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

### 2. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit at least 180 days prior to expiration of the permit.

### 3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

### 4. Permit Actions

This permit may be modified, revoked and reissued, suspended, or revoked for cause. The filing of a request by the permittee for permit modification, revocation and reissuance, or revocation, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

### 5. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

### 6. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as required in Title 47, Series 10, Section 4.6 of the West Virginia Legislative Rules.

### 7. Transfers

This permit is not transferrable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.

### 8. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable specified time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, suspending, or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

### 9. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

### 10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a) Enter upon the permittee's premises in which an effluent source or activity is located, or where records must be kept under the conditions of this permit;
- b) Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;
- c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the State Act, any substances or parameters at any location.

### 11. Permit Modification

This permit may be modified, suspended, or revoked in whole or in part during its term in accordance with the provisions of Chapter 22-11-12 of the Code of West Virginia.

### 12. Water Quality

Subject to 47 WV CSR 10.3.4.a, the effluent or effluents covered by this permit are to be of such quality so as not to cause violation of applicable water quality standards.

### 13. Outlet Markers

A permanent marker at the establishment shall be posted in accordance with Title 47, Series 11, Section 9 of the West Virginia Legislative Rules.

### 14. Liabilities

- a) Any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed \$25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, 308 or 405 of the Clean Water Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than 1 year, or both.
- b) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 2 years, or by both.
- c) Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 2 years, or by both.
- d) Nothing in I.14 a), b), and c) shall be construed to limit or prohibit any other authority the Director may have under the State Water Pollution Control Act, Chapter 22, Article 11.

## II. OPERATION AND MAINTENANCE:

### 1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures. Unless otherwise required by Federal or State law, this provision requires the operation of back-up auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit. For domestic waste treatment facilities, waste treatment operators as classified by the WV Bureau of Public Health Laws, W. Va. Code Chapter 16-1, will be required except that in circumstances where the domestic waste treatment facility is receiving any type of industrial waste, the Director may require a more highly skilled operator.

### 2. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

### 3. Bypass

- a) Definitions
  - (1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility; and
  - (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of II.3.c) and II.3.d) of this permit.
- c)
  - (1) If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass;
  - (2) If the permittee does not know in advance of the need for bypass, notice shall be submitted as required in IV.2.b) of this permit.
- d) Prohibition of bypass
  - (1) Bypass is permitted only under the following conditions, and the Director may take enforcement action against a permittee for a bypass, unless;
    - (A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
    - (B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
    - (C) The permittee submitted notices as required under II.3.c) of this permit.
  - (2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in II.3.d.(1) of this permit.

### 4. Upset

- a) Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.
- b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitation if the requirements of II.4.c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
  - (2) The permitted facility was at the time being properly operated;
  - (3) The permittee submitted notice of the upset as required in IV.2.b) of this permit.
  - (4) The permittee complied with any remedial measures required under I.3. of this permit.
- d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

### 5. Removed Substances

Where removed substances are not otherwise covered by the terms and conditions of this permit or other existing permit by the Director, any solids, sludges, filter backwash or other pollutants (removed in the course of treatment or control of wastewaters) and which are intended for disposal within the State, shall be disposed of only in a manner and at a site subject to the approval by the Director. If such substances are intended for disposal outside the State or for reuse, i.e., as a material used for making another product, which in turn has another use, the permittee shall notify the Director in writing of the proposed disposal or use of such substances, the identity of the prospective disposer or users, and the intended place of disposal or use, as appropriate.

### III. MONITORING AND REPORTING

#### 1. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

#### 2. Reporting

- a) Permittee shall submit, according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration, and/or quantities, the values of the constituents listed in Part A analytically determined to be in the plant effluent(s). DMR submissions shall be made in accordance with the terms contained in Section C of this permit.
- b) Enter reported average and maximum values under "Quantity" and "Concentration" in the units specified for each parameter, as appropriate.
- c) Specify the number of analyzed samples that exceed the allowable permit conditions in the columns labeled "N.E." (i.e., number exceeding).
- d) Specify frequency of analysis for each parameter as number of analyses/specified period (e.g., 3/month is equivalent to 3 analyses performed every calendar month). If continuous, enter "Cont.". The frequency listed on format is the minimum required.

#### 3. Test Procedures

Samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136, unless other test procedures have been specified elsewhere in this permit.

#### 4. Recording of Results

For each measurement or sample taken pursuant to the permit, the permittee shall record the following information.

- a) The date, exact place, and time of sampling or measurement;
- b) The date(s) analyses were performed;
- c) The individual(s) who performed the sampling or measurement;
- d) The individual(s) who performed the analyses; if a commercial laboratory is used, the name and address of the laboratory;
- e) The analytical techniques or methods used, and
- f) The results of such analyses. Information not required by the DMR form is not to be submitted to this agency, but is to be retained as required in III.6.

#### 5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at any monitoring point specified in this permit more frequently than required by this permit, using approved test procedures or others as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

#### 6. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

#### 7. Definitions

- a) "Daily discharge" means the discharge of a pollutant measured during a calendar day or within any specified period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.
- b) "Average monthly discharge limitation" means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
- c) "Maximum daily discharge limitation" means the highest allowable daily discharge.
- d) "Composite Sample" is a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall be two hours.
- e) "Grab Sample" is an individual sample collected in less than 15 minutes.
- f) "is" = immersion stabilization - a calibrated device is immersed in the effluent stream until the reading is stabilized.
- g) The "daily average temperature" means the arithmetic average of temperature measurements made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month, or during the operating month if flows are of shorter duration.
- h) The "daily maximum temperature" means the highest arithmetic average of the temperatures observed for any two (2) consecutive hours during a 24 hour day, or during the operating day if flows are of shorter duration.
- i) The "monthly average fecal coliform" bacteria is the geometric average of all samples collected during the month.
- j) "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or which a relationship to absolute volume has been obtained.
- k) "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.
- l) "Non-contact cooling water" means the water that is contained in a leak-free system, i.e., no contact with any gas, liquid, or solid other than the container for transport; the water shall have no net poundage addition of any pollutant over intake water levels, exclusive of approved anti-fouling agents.

## IV. OTHER REPORTING

### 1. Reporting Spills and Accidental Discharges

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to Title 47, Series 11, Section 2 of the West Virginia Legislative Rules promulgated pursuant to Chapter 22, Article 11. Attached is a copy of the West Virginia Spill Alert System for use in complying with Title 47, Series 11, Section 2 of the Legislative rules as they pertain to the reporting of spills and accidental discharges.

### 2. Immediate Reporting

- a) The permittee shall report any noncompliance which may endanger health or the environment immediately after becoming aware of the circumstances by using the Agency's designated spill alert telephone number. A written submission shall be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- b) The following shall also be reported immediately:
  - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
  - (2) Any upset which exceeds any effluent limitation in the permit; and
  - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit shall be reported immediately. This list shall include any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance.
- c) The Director may waive the written report on a case-by-case basis if the oral report has been received in accordance with the above.
- d) Compliance with the requirements of IV.2 of this section, shall not relieve a person of compliance with Title 47, Series 11, Section 2.

### 3. Reporting Requirements

- a) Planned changes. The permittee shall give notice to the Director of any planned physical alterations or additions to the permitted facility which may affect the nature or quantity of the discharge. Notice is required when:
  - (1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in Section 13.7.b of Series 10, Title 47; or
  - (2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under IV.2 of this section.
- b) Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- c) In addition to the above reporting requirements, all existing manufacturing, commercial, and silvicultural discharges must notify the Director in writing as soon as they know or have reason to believe:
  - (1) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, or any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - (A) One hundred micrograms per liter (100 ug/l);
    - (B) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitro phenol; and for 2-methyl 4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
    - (C) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.9 of Series 10, Title 47.
    - (D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47;
  - (2) That any activity has occurred or will occur which would result in any discharge (on a non-routine or infrequent basis) of a toxic which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - (A) Five hundred micrograms per liter (500 ug/l);
    - (B) One milligram per liter (1 mg/l) for antimony;
    - (C) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.7 of Series 10, Title 47;
    - (D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47.
  - (3) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a routine or frequent basis of that toxic pollutant at levels which exceed five times the detection limit for that pollutant under approved analytical procedure.
  - (4) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a non-routine or infrequent basis of that toxic pollutant at levels which exceed ten times the detection limit for that pollutant under approved analytical procedure.

### 4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under the above paragraphs at the time monitoring reports are submitted. The reports shall contain the information listed in IV.2.a). Should other applicable noncompliance reporting be required, these terms and conditions will be found in Section C of this permit.

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Final Limitations

FACILITY NAME: (Ada Water Pollution Abatement Center) BLUEFIELD SANITARY BQ CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: BLUEFIELD; Mercer County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0023141

OUTLET NO.: 001

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Units	N.E.	Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
							Rpt Only Minimum	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
50050 (ML-1) RF-A Flow in Conduit or thru plant Year Round	Reported													
	Permit Limits	N/A	N/A							N/A	mgd		Continuous	measured
00310 (ML-B) RF-A BOD, 5-Day 20 Deg.C Year Round	Reported													
	Permit Limits	300 Avg. Monthly	600 Max. Daily		Lbs/Day			30 Avg. Monthly	60 Max. Daily	N/A	mg/l		1/week	8 hr comp
00530 (ML-A) RF-A Total Suspended Solids Year Round	Reported													
	Permit Limits	300 Avg. Monthly	600 Max. Daily		Lbs/Day			30 Avg. Monthly	60 Max. Daily	N/A	mg/l		1/week	8 hr comp
81010 (ML-K) RF-A BOD, % Removal Year Round	Reported													
	Permit Limits	N/A	N/A				85 Month. Avg. Min.	N/A	N/A	N/A	Percent		4/Month	Calculated
81011 (ML-K) RF-A Suspended Solids, % Removal Year Round	Reported													
	Permit Limits	N/A	N/A				85 Month. Avg. Min.	N/A	N/A	N/A	Percent		4/Month	Calculated
74055 (ML-A) RF-A Coliform, Fecal Year Round	Reported													
	Permit Limits	N/A	N/A					200 Mon. Geo. Mean	400 Max. Daily	N/A	Cnts/100m		1/week	Grab
00400 (ML-A) RF-A pH Year Round	Reported													
	Permit Limits	N/A	N/A				6 Inst. Min.	N/A	9 Inst. Max.	N/A	S.U.		1/week	Grab
00300 (ML-A) RF-A Dissolved Oxygen Year Round	Reported													
	Permit Limits	N/A	N/A				6 Inst. Min.	N/A	N/A	N/A	mg/l		1/week	Grab

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer		Date Completed	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.		Signature of Principal Executive Officer or Authorized Agent	
Title of Officer			

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Final Limitations

FACILITY NAME: (Ada Water Pollution Abatement Center) BLUEFIELD SANITARY BO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: BLUEFIELD; Mercer County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WW0023141OUTLET NO.: 001

WASTELOAD FOR THE MONTH OF: \_\_\_\_\_

## INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
00610 (ML-A) RF-A Ammonia Nitrogen Year Round	Reported	19										
	Permit Limits	Avg. Monthly	38	Max. Daily								
01119 (ML-A) RF-C Copper, Total Recoverable Year Round	Reported											
	Permit Limits	N/A	N/A									
01114 (ML-A) RF-C Lead, Total Recoverable Year Round	Reported											
	Permit Limits	N/A	N/A									
01094 (ML-A) RF-C Zinc, Total Recoverable Year Round	Reported											
	Permit Limits	N/A	N/A									
01002 (ML-A) RF-C Arsenic, Total (as As) Year Round	Reported											
	Permit Limits	N/A	N/A									
01113 (ML-A) RF-A Cadmium, Total Recoverable Year Round	Reported											
	Permit Limits	N/A	N/A									
01032 (ML-A) RF-C Chromium, Hexavalent Year Round	Reported											
	Permit Limits	N/A	N/A									
00718 (ML-A) RF-C Cyanide, Weak Acid Dissociable Year Round	Reported											
	Permit Limits	N/A	N/A									

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer		Date Completed	
Title of Officer		Signature of Principal Executive Officer or Authorized Agent	
<p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.</p>			

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
DISCHARGE MONITORING REPORT

Final Limitations

FACILITY NAME: (Ada Water Pollution Abatement Center) BLUEFIELD SANITARY BO CERTIFIED LABORATORY NAME: \_\_\_\_\_  
 LOCATION OF FACILITY: BLUEFIELD; Mercer County CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_  
 PERMIT NO.: WV0023141 OUTLET NO.: 001  
 WASTELOAD FOR THE MONTH OF: \_\_\_\_\_ INDIVIDUAL PERFORMING ANALYSIS: \_\_\_\_\_

Parameter		Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
71900 (ML-A) RF-A Mercury, Total (as Hg) Year Round	Reported											
	Permit Limits	N/A	N/A			0.0098 Avg. Monthly	0.02 Max. Daily	N/A	ug/l		1/month	Grab
01074 (ML-A) RF-C Nickel, Total Recoverable Year Round	Reported											
	Permit Limits	N/A	N/A			Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	8 hr comp
01079 (ML-A) RF-C Silver, Total Recoverable Year Round	Reported											
	Permit Limits	N/A	N/A			Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	8 hr comp
61426 (ML-A) RF-D Chronic Tox-Ceriodaphnia Dubia Year Round	Reported											
	Permit Limits	N/A	N/A			Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	TUc		1/year	8 hr comp
61428 (ML-A) RF-D Chronic Toxicity - Pimephales Year Round	Reported											
	Permit Limits	N/A	N/A			Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	TUc		1/year	8 hr comp
								N/A				
								N/A				
								N/A				

\* CEL = Compliance Evaluation Level

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.		Date Completed
Name of Principal Executive Officer <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		Signature of Principal Executive Officer or Authorized Agent <div style="border: 1px solid black; height: 40px; width: 100%;"></div>
Title of Officer <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		



STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
SEWAGE SLUDGE MONITORING REPORT

Final Limitations

FACILITY NAME: (Ada Water Pollution Abatement Center) BLUEFIELD SANITARY BO

CERTIFIED LABORATORY NAME: \_\_\_\_\_

LOCATION OF FACILITY: BLUEFIELD; Mercer County

CERTIFIED LABORATORY ADDRESS: \_\_\_\_\_

PERMIT NO.: WV0023141OUTLET NO.: S01

RESULTS FOR THE MONTH OF: \_\_\_\_\_

## INDIVIDUAL PERFORMING ANALYSIS:

Parameter	Quantity	Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
74055 (ML+) RF-B Coliform, Fecal Year Round	Reported								
	Permit Limits	N/A	N/A	Rpt Only Maximum	N/A	col/gr		1/quarter	Grab
00400 (ML+) RF-B pH Year Round	Reported								
	Permit Limits	N/A	N/A	Rpt Only Maximum	N/A	S.U.		1/quarter	Grab
61521 (ML+) RF-B Arsenic, Sludge Tot. Dry Wt. Year Round	Reported								
	Permit Limits	N/A	N/A	20 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78476 (ML+) RF-B Cadmium, Sludge, Tot. Dry Wt. Year Round	Reported								
	Permit Limits	N/A	N/A	39 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78473 (ML+) RF-B Chromium, Dry Wt. Year Round	Reported								
	Permit Limits	N/A	N/A	1000 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78475 (ML+) RF-B Copper, Sludge, Tot. Dry Wt. Year Round	Reported								
	Permit Limits	N/A	N/A	1500 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78468 (ML+) RF-B Lead, Dry. Wt. Year Round	Reported								
	Permit Limits	N/A	N/A	250 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78471 (ML+) RF-B Mercury, Dry Wt. Year Round	Reported								
	Permit Limits	N/A	N/A	10 Maximum	N/A	mg/kg		1/quarter	1 Week Comp

\* CEL = Compliance Evaluation Level

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.		Date Completed _____
Name of Principal Executive Officer _____		Signature of Principal Executive Officer or Authorized Agent _____
Title of Officer _____		

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
SEWAGE SLUDGE MONITORING REPORT

FACILITY NAME: (Ada Water Pollution Abatement Center) BLUEFIELD SANITARY BQ CERTIFIED LABORATORY NAME:

LOCATION OF FACILITY: BLUEFIELD; Mercer County CERTIFIED LABORATORY ADDRESS:

PERMIT NO.: WV0023141 OUTLET NO.: S01

RESULTS FOR THE MONTH OF:

INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity			N.E.	Other Units			CEL *	Units	N.E.	Measurement Frequency	Sample Type
78465 (ML-+) RF-B Molybdenum, Dry Wgt Year Round	Reported												
	Permit Limits	N/A	N/A			N/A		18 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78469 (ML-+) RF-B Nickel, Dry Wt Year Round	Reported												
	Permit Limits	N/A	N/A			N/A		200 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
49031 (ML-+) RF-B Selenium, Sludge, Tot. Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A		36 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78467 (ML-+) RF-B Zinc, Dry Wt Year Round	Reported												
	Permit Limits	N/A	N/A			N/A		2800 Maximum	N/A	mg/kg		1/quarter	1 Week Comp
00916 (ML-+) RF-B Calcium, Total (as Ca) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A		Rpt Only Maximum	N/A	mg/kg		1/quarter	1 Week Comp
61553 (ML-+) RF-B Solids, Total Sludge Percent Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Minimum	Rpt Only Avg.	Rpt Only Maximum	N/A	Percent		1/quarter	1 Week Comp
78472 (ML-+) RF-B Potassium, Sludge Tot. Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A		Rpt Only Maximum	N/A	mg/kg		1/quarter	1 Week Comp
78478 (ML-+) RF-B Phosphorus, Sludge, Tot. Dry Wt. Year Round	Reported												
	Permit Limits	N/A	N/A			N/A		Rpt Only Maximum	N/A	mg/kg		1/quarter	1 Week Comp

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer <div style="border: 1px solid black; height: 30px; margin-top: 5px;"></div>	Date Completed <div style="border: 1px solid black; height: 30px; margin-top: 5px;"></div>	Signature of Principal Executive Officer or Authorized Agent <div style="border: 1px solid black; height: 50px; margin-top: 5px;"></div>
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.		
Title of Officer <div style="border: 1px solid black; height: 30px; margin-top: 5px;"></div>		

STATE OF WEST VIRGINIA  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM  
SEWAGE SLUDGE MONITORING REPORT

Final Limitations

FACILITY NAME: (Ada Water Pollution Abatement Center) BLUEFIELD SANITARY BO

CERTIFIED LABORATORY NAME:

LOCATION OF FACILITY: BLUEFIELD; Mercer County

CERTIFIED LABORATORY ADDRESS:

PERMIT NO.: WV0023141

OUTLET NO.: S01

RESULTS FOR THE MONTH OF:

## INDIVIDUAL PERFORMING ANALYSIS:

Parameter	Quantity			Other Units			CEL*	Units	N.E.	Measurement Frequency	Sample Type
82294 (ML+) RF-B Nitrogen, Ammonia Tot. DW Year Round	Reported										
	Permit Limits	N/A	N/A				N/A	mg/kg		1/quarter	1 Week Comp
78470 (ML+) RF-B Nitrogen, Sludge Tot. Dry Wt Year Round	Reported										
	Permit Limits	N/A	N/A				N/A	mg/kg		1/quarter	1 Week Comp
51020 (ML+) RF-B Organic Nitrogen Year Round	Reported										
	Permit Limits	N/A	N/A				N/A	mg/kg		1/quarter	1 Week Comp
00927 (ML+) RF-B Magnesium, Tot (as Mg) Year Round	Reported										
	Permit Limits	N/A	N/A				N/A	mg/kg		1/quarter	1 Week Comp
							N/A				
							N/A				
							N/A				
							N/A				

\* CEL = Compliance Evaluation Level

Name of Principal Executive Officer <div style="border: 1px solid black; height: 20px; margin-top: 5px;"></div>	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.
Title of Officer <div style="border: 1px solid black; height: 20px; margin-top: 5px;"></div>	Date Completed <div style="border: 1px solid black; height: 20px; margin-top: 5px;"></div>
Signature of Principal Executive Officer or Authorized Agent <div style="border: 1px solid black; height: 40px; margin-top: 5px;"></div>	

## SEWAGE SLUDGE MANAGEMENT REPORT

FACILITY NAME: (Ada Water Pollution Abatement Center) BLUEFIELD SANITARY BO DESIGN FLOW: 1,200,000 gpd PERMIT NUMBER: WV0023141  
ADDRESS: P.O. Box 998, Bluefield, WV 24701 YEAR: MONTH: MONITORING FREQUENCY: LAST SAMPLE DATE:

Total Sludge Generated this Report Period: (Dry Tons) Disposal Method:  
Sludge Generated this Year to Date: (Dry Tons) Amount Disposed: (Dry tons)  
Sewage Sludge/Domestic Septage Received: (Gallons) Name of Landfill or Compost Facility :

Percent Solids: Average: Measurement Frequency: Number of Loads Landfilled With Less Than 20% Solids:

### Pathogen Reduction Method:

☐ Not Applicable. No land application of sewage sludge.

☐ Fecal Coliform Monitoring: Geometric mean of last seven samples is col/dry gram col/dry gram  
Sample results for this report period were: col/dry gram col/dry gram

☐ Limit Addition: pH of sample two hours after lime addition: Range

☐ Aerobic Digestion: Average detention time for this report period:(days) Range

Digester Temperature: Average Range

☐ Anaerobic Digestion: Average detention time for this report period:(days) Range

Digester Temperature: Average Range

☐ Other: (Provide Description)

NE: Number of loads land applied which did not fully meet pathogen reduction requirements:

### Vector Attraction Reduction Method:

☐ Not Applicable. No land application of sewage sludge.

☐ 38% Volatile Solids Reduction: Average volatile solids reduction for the month of was percent

☐ SOUR: The average Specific Oxygen Uptake rate for the month of was mg Oxygen/hour/dry gram

☐ Lime Addition: pH of sample two hours after lime addition: Range

pH of sample 24 hours after lime addition: Range

☐ Other: (Provide Description)

NE: Number of loads land applied which did not fully meet vector attraction reduction requirements:

*I certify under penalty of law that the management practices, vector attraction reduction requirements, and the pathogen reduction requirements of Federal regulations 40 CFR Part 503 and State Regulation Title 33, Series 2 have been met for all sewage sludge land applied during this report period. This determination has been made under my supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate information used to determine these requirements have been met. I also certify that this document and all the attachments were prepared under my direction or supervision, and that the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are penalties for false certification including the possibility of fine and imprisonment.*

OFFICIAL TITLE

SIGNATURE DATE

Additional Comments or Explanation:

**EMERGENCY RESPONSE SPILL ALERT SYSTEM  
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**REQUIREMENTS:**

Title 47, Series 11, Section 2 of the West Virginia Legislative Rules, Environmental Protection, Water Resources - Waste Management, Effective July 1, 1994.

**RESPONSIBILITY FOR REPORTING:**

Each and every person who may cause or be responsible for any spill or accidental discharge of pollutants into the waters of the State shall give immediate notification to the Division of Water and Waste Management's Emergency Notification Number, 1-800-642-3074. Such notification shall set forth insofar as possible and as soon thereafter as practical the time and place of such spill or discharge, type or types and quantity or quantities of the material or materials therein, action or actions taken to stop such spill or discharge and to minimize the polluting effect thereof, the measure or measures taken or to be taken in order to prevent a recurrence of any such spill or discharge and such additional information as may be requested by the Division of Water and Waste Management. This also applies to spills to the waters of the State resulting from accidents to common carriers by highway, rail and water.

It shall be the responsibility of each industrial establishment or other entity discharging directly to a stream to have available the following information pertaining to those substances that are employed or handled in its operation in sufficiently large amounts as to constitute a hazard in case of an accidental spill or discharge into a public stream:

- (1) Potential toxicity in water to man, animals and aquatic life;
- (2) Details on analytical procedures for the quantitative estimation of such substances in water and
- (3) Suggestions on safeguards or other precautionary measures to nullify the toxic effects of a substance once it has gotten into a stream.

Failure to furnish such information as required by Section 14, Article 11, Chapter 22, Code of West Virginia may be punishable under Section 24, Article 11, Chapter 22, and/or Section 22, Article 11, Chapter 22, Code of West Virginia.

It shall be the responsibility of any person who causes or contributes in any way to the spill or accidental discharge of any pollutant or pollutants into State waters to immediately take any and all measures necessary to contain such spill or discharge. It shall further be the responsibility of such person to take any and all measures necessary to clean-up, remove and otherwise render such spill or discharge harmless to the waters of the State.

When the Director determines it necessary for the effective containment and abatement of spills and accidental discharges, the Director may require the person or persons responsible for such spill or discharge to monitor affected waters in a manner prescribed by the Director until the possibility of any adverse effect on the waters of the State no longer exists.

**VOLUNTARY REPORTING BY LAW OFFICERS, U. S. COAST GUARD, LOCK MASTERS AND OTHERS:**

In cases involving river and highway accidents where the responsible party may or may not be available to report the incident, law officers, U. S. Coast Guard, Lock Masters and other interested person(s) should make the report.

**WHO TO CONTACT:**

Notify the following number: **1-800-642-3074**

**INFORMATION NEEDED:**

- |  |                                       |
|--|---------------------------------------|
| - Source of spill or discharge               | - Personnel at the scene              |
| - Location of incident                       | - Actions initiated                   |
| - Time of incident                           | - Shipper/Manufacturer identification |
| - Material spilled or discharged             | - Railcar/Truck identification number |
| - Amount spilled or discharged               | - Container type                      |
| - Toxicity of material spilled or discharged |                                       |

### NOTICE TO PERMITTEES

The 1999 regular session of the West Virginia legislature revised the Water Pollution Control Act, Chapter 22, Article 11, Section 10 of the Code of West Virginia relating to fees associated with permits. This section of the Code requires all holders of a State water pollution control permit or a national pollutant discharge elimination system permit to be assessed an annual permit fee, based upon rules promulgated by the Secretary of the Department of Environmental Protection. The Secretary has promulgated a final rule in accordance with the code revision to this effect and these rules were effective May 4, 2000. The rules establish an annual permit fee based upon the relative potential to degrade the waters of the State which, in most instances, relate to volume of discharge. However, for sewage facilities, the annual permit fee is based upon the number of customers served by the facility. You may contact the Secretary of State's Office, State Capitol Building, Charleston, WV 25305, to obtain a copy of the rules. The reference is Title 47, Legislative Rules, Department of Environmental Protection, Division of Water Resources, Series 26 Water Pollution Control Permit Fee Schedules.

Based upon the volume of discharge for which your facility is currently permitted, the number of customers served by your facility or for the category you fall within, pursuant to Section 7 of Title 47, Series 26, your annual permit fee is **\$2500.00**. This fee is due no later than the anniversary date of permit issuance in each year of the term of the permit or in the case of coverage under a general permit, the fee is due no later than the anniversary date of your coverage under the general permit. **You will be invoiced by this agency at the appropriate time for the fee.** Failure to submit the annual fee within ninety(90) days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect.

## **RIGHT OF APPEAL**

**Notice is hereby given of your right to appeal the terms and conditions of this permit which you are aggrieved by to the Environmental Quality Board by filing a NOTICE OF APPEAL on the form prescribed by such Board for this purpose, with the Board, in accordance with the provisions of Section 21, Article 11, Chapter 22 of the Code of West Virginia within thirty (30) days after the date of receipt of the above permit.**

