

WRD 1A-82
Revised 06/09



STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT
601 57th Street, SE
CHARLESTON, WV 25304

GENERAL
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WATER POLLUTION CONTROL PERMIT

Permit No.: WV0107000

Issue Date: 06/01/2009

Subject: Sewage Treatment and Disposal
Systems of Domestic Sewage Only
(Design capability 600 GPD or less,
serving individual residences and
certain commercial establishments)

Effective Date: 07/01/2009

Expiration Date: 05/31/2014

Supersedes: WV/NPDES General Water
Pollution Control Permit No. WV0107000
Issued March 31, 2004

To whom it may concern:

This is to certify that any entity to be regulated under the terms and conditions of this general permit, and who has satisfied the registration requirements and has been assigned a treatment category, is hereby granted coverage under this General WV/NPDES Water Pollution Control Permit to install, operate, and maintain a disposal system for the direct discharge of treated sewage into the waters of the State.

This permit is subject to the following terms and conditions:

The information submitted on and with the Facility Registration/Application Form is hereby incorporated with like effect as if all such information was set forth herein, and the conditions set forth in Sections A, B, and C and the conditions set forth in the site approval coverage letter.

(continued)

A.1 Discharge Limitations - Treatment Category A.1

During the period beginning on July 1, 2009 and lasting through May 31, 2014, permittees who have been assigned to Treatment Category A.1 are authorized to discharge from the point source. The discharge shall comply with the following:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u> <u>Other Units (Specify)</u>			<u>Sample Type</u>
	<u>Avg. Monthly</u>	<u>Max. Daily</u>	<u>Instantaneous Maximum</u>	
Flow		600 GPD		Estimated
Biochemical Oxygen Demand	30 mg/l	60 mg/l	75 mg/l	Grab
Total Suspended Solids	30 mg/l	60 mg/l	75 mg/l	Grab
Fecal Coliform	200 <u>counts</u> 100 ml	400 <u>counts</u> 100 ml	500 <u>counts</u> 100 ml	Grab

The pH shall not be less than 6.0 standard units and not more than 9.0 standard units.

Facilities subject to Treatment Category A.1 are required to provide an extended aeration “package” sewage treatment plant or equivalent units. Disinfection shall be accomplished through the use of chlorination or an ultraviolet disinfection system.*

***See Section C.9**

This discharge shall not cause violation of Title 46, Series 1, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.2 Discharge Limitations - Treatment Category A.2

During the period beginning on July 1, 2009 and lasting through May 31, 2014, permittees who have been assigned to Treatment Category A.2 are authorized to discharge from the point source. The discharge shall comply with the following:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u> <u>Other Units (Specify)</u>			<u>Sample Type</u>
	<u>Avg. Monthly</u>	<u>Max. Daily</u>	<u>Instantaneous Maximum</u>	
Flow		600 GPD		Estimated
Biochemical Oxygen Demand	30 mg/l	60 mg/l	75 mg/l	Grab
Total Suspended Solids	30 mg/l	60 mg/l	75 mg/l	Grab
Fecal Coliform	200 <u>counts</u> 100 ml	400 <u>counts</u> 100 ml	500 <u>counts</u> 100 ml	Grab
*Total Residual Chlorine	28 µg/l	57 µg/l	70 µg/l	Grab

The pH shall not be less than 6.0 standard units and not more than 9.0 standard units.

Facilities subject to Treatment Category A.2 are required to provide an extended aeration “package” sewage treatment plant or equivalent units. Disinfection shall be accomplished through the use of chlorination and dechlorination or an ultraviolet disinfection system.

***See Section C.9**

This discharge shall not cause violation of Title 46, Series 1, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.3 Discharge Limitations - Treatment Category B

During the period beginning on July 1, 2009 and lasting through May 31, 2014, permittees who have been assigned to Treatment Category B are authorized to discharge from the point source. The discharge shall comply with the following:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u> <u>Other Units (Specify)</u>			<u>Sample Type</u>
	<u>Avg. Monthly</u>	<u>Max. Daily</u>	<u>Instantaneous Maximum</u>	
Flow		600 GPD		Estimated
Biochemical Oxygen Demand	5 mg/l	10 mg/l	12.5 mg/l	Grab
Total Suspended Solids	30 mg/l	60 mg/l	75 mg/l	Grab
Fecal Coliform	200 <u>counts</u> 100 ml	400 <u>counts</u> 100 ml	500 <u>counts</u> 100 ml	Grab
Dissolved Oxygen	Not less than 6.0 mg/l at any given time			Grab
*Total Residual Chlorine	28 µg/l	57 µg/l	70 µg/l	Grab
The pH shall not be less than 6.0 standard units and not more than 9.0 standard units.				

Facilities subject to Treatment Category B are required to provide an extended aeration "package" sewage treatment plant or equivalent unit and an alternative surface sand filter or a rapid sand filter or equivalent media filter capable of achieving the discharge limitations. Disinfection shall be accomplished through the use of chlorination and dechlorination or an ultraviolet disinfection system. Post aeration of the final effluent is required, if necessary. Ultraviolet disinfection is strongly recommended for systems discharging to trout streams.

***See Section C.9**

This discharge shall not cause violation of Title 46, Series 1, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

A.4 Discharge Limitations - Treatment Category C

During the period beginning on July 1, 2009 and lasting through May 31, 2014, permittees who have been assigned to Treatment Category C are authorized to discharge from the point source. The discharge shall comply with the following:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u> <u>Other Units (Specify)</u>			<u>Sample Type</u>
	<u>Avg. Monthly</u>	<u>Max. Daily</u>	<u>Instantaneous Maximum</u>	
Flow		600 GPD		Estimated
Biochemical Oxygen Demand	30 mg/l	60 mg/l	75 mg/l	Grab
Total Suspended Solids	30 mg/l	60 mg/l	75 mg/l	Grab
Fecal Coliform	200 <u>counts</u> 100 ml	400 <u>counts</u> 100 ml	500 <u>counts</u> 100 ml	Grab
*Total Residual Chlorine	28 µg/l	57 µg/l	70 µg/l	Grab

The pH shall not be less than 6.0 standard units and not more than 9.0 standard units.

Facilities subject to Treatment Category C are required to provide a media filter. Disinfection shall be accomplished through the use of an ultraviolet disinfection system.

***See Section C.9**

This discharge shall not cause violation of Title 46, Series 1, Section 3, of the West Virginia Legislative Rules issued pursuant to Chapter 22B, Article 3.

Section B. Management Conditions:

1. Duty to Comply

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.

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 within thirty (30) days of receipt of the reissuance package. Since the permittee is registered for coverage under a general permit, this agency will notify the permittee regarding permit reissuance at the appropriate time.

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 conditions.

5. Property Rights

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

6. Signatory Requirements

All registration application forms, 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 of the Department of Environmental Protection.

7. 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 permittees shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

8. Other Information

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

9. 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) Samples 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 locations.

10. 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, Article 11, Section 12 of the Code of West Virginia.

11. Water Quality

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 adopted by the State Environmental Quality Board.

12. 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 \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, or 308 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.

Section B. Management Conditions:**(Continued)**

- 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 6 months per violation, 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 6 months per violation, or by both.
- d) Nothing in E.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.

13. 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 the permit. For domestic waste treatment facilities, waste treatment operators as classified by the WV Bureau for Public Health Regulations authorized under Chapter 16, Article 1, Public Health Laws, Code of West Virginia, will be required. Systems unable to achieve permit limits may be required to upgrade.

14. Transfers

This permit coverage is not transferable 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(s) and incorporate such other requirements as may be necessary. The permittee shall notify the Director in writing of the new property owner's name, mailing address and phone number within 10 days of the sale of the property.

15. 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.

16. Outlet Accessibility

The outlet shall be located in an area that is easily accessible for compliance inspection and monitoring:

- a) It shall be free of debris and tall weeds;
- b) It shall not be submerged under water;
- c) It shall not be discharged into the ground (sub-surface);
- d) It shall have proper ground clearance to allow for compliance monitoring;
- e) It shall not be combined with any other outlet pipes or any form of drainage pipe; and
- f) If it is drained into a culvert or storm drain it must be easily accessible for monitoring.

If site-specific conditions do not allow for the installation of an easily accessible outlet, then a sampling port may be installed instead. Sampling ports must be designed, constructed, and installed to provide easy access for collecting a "free fall" water sample from the effluent stream after chlorination and dechlorination.

17. Continuation of this general permit

If this general permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with 47 CSR 10 and remain in force and effect. If you were authorized to discharge under this general permit prior to the expiration date, any discharges authorized under this permit will automatically remain covered by this general permit until the earliest of:

A) Your authorization for coverage under a reissued general permit or a replacement of this general permit following your timely and appropriate submittal of a complete application requesting authorization to discharge under the new general permit and compliance with the requirements of the new permit; or B) Your submittal of notification that the facility has ceased operations; or C) Issuance or denial of an individual permit for the facility's discharge; or D) A formal permit decision by DWWM not to reissue this general permit, at which time DWWM will identify a reasonable time period of covered dischargers to seek coverage under an alternative general permit or individual permit. Coverage under this permit will cease at the end of this time period

Section C. Other Requirements:

1. Neither permittee (owner or contractor) shall cancel the maintenance contract without prior approval from the Division of Water and Waste Management. If the maintenance contractor wishes to make a motion to terminate his or her maintenance contract with the owner, a Release Request form shall be sent to our office for approval of such termination. This form must state the specific reason that the termination of the contract is being requested. If the owner wishes to get a maintenance contract with another service provider then they shall submit a transfer form and contract with the new provider. At the discretion of the Division of Water and Waste Management, approval may be granted and notification given within 30 days of receipt of the request.
2. Each quarter, or more frequently if needed, the maintenance contractor shall inspect and service the facility. Those systems covered under Category C may reduce the minimum required service visits to once every 6 months. If the system fails to maintain compliance they may be required to increase the frequency of service. Within 7 days upon completion of each inspection, a copy of the completed inspection form shall be mailed to the homeowner and to the agency at Division of Water & Waste Management, Permitting Section, 601 57th Street, S.E., Charleston, WV 25304. When an electronic reporting data base becomes available the contractor will be required to report inspections via the electronic system.
3. The permittee shall connect to a municipal or public service district sewage collection system when one becomes available.
4. This permit authorizes the treatment of only domestic sewage from households and certain commercial businesses. The treatment of any industrial wastes, including waters from commercial car washes and laundries, or the treatment of wastes from food service operations is expressly prohibited.
5. At the discretion of the Division of Water and Waste Management, permittees that fail to properly operate and maintain their sewage disposal system, as required by this permit, may be required to attend all appropriate training courses deemed necessary to ensure proper operation.
6. This permit will be considered as an individual permit if the coverage of a specific individual facility is the subject of an appeal in accordance with Chapter 22, Article 11, Section 21 of the West Virginia Code. Any subsequent action taken as result of the appeal will only affect the specific subject facility.
7. All sewage treatment facilities authorized coverage under this permit shall remove sewage sludge from their system only by a septage hauler certified and registered under a septage hauler general permit issued by this office. The system shall be pumped by a certified hauler within 30 days of notification by the maintenance contractor that it is necessary. The system shall be pumped when the mixed liquor solids are above 6,000 mg/l or the final settler is more than 1/3 full of solids as determined by a jar test or other method recommended by the manufacturer. A copy of the receipt from the certified hauler shall be retained for 3 years.
8. Available sampling methods for total residual chlorine (TRC) are currently not sensitive enough to confirm compliance with the permit limitations imposed. TRC samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136. The permittee shall use and EPA Approved Method with at least a method detection level (MDL) of 100 ug/l. Any TRC sampling result reported as less than the MDL stated above shall be assumed to confirm compliance for purposes of permit compliance. Should a more sensitive EPA approved method become available for field analysis of TRC, the permittee shall perform TRC self-monitoring in accordance with the new method. If the new method is not sensitive enough to determine compliance with specified TRC limits, analytical results reported as "not detected" at the MDL of the new method will be deemed compliant for purposes of permit compliance.
9. All treatment systems must provide for disinfection of the effluent. Facilities registered under Treatment Categories A.2, B and C of this permit that utilize chlorination for disinfection, must also provide for dechlorination of the effluent prior to final discharge. However, no Total Residual Chlorine (TRC) shall be allowed to discharge to a trout stream. **Therefore, the use of ultraviolet disinfection is recommended for a facility that discharges to a trout stream.**
10. Permittees discharging pollutants of concern to waters for which there is a total maximum daily load (TMDL) established or approved by EPA are not eligible for coverage under this general permit, unless the permit conditions of this general permit are consistent with the assumptions and requirements of such TMDL. Therefore, the permittee must submit an NPDES application to the West Virginia Department of Environmental Protection for coverage under an individual NPDES permit. The permittee should consult with the State or EPA TMDL authority to confirm if his/her facility is subject to an approved TMDL.

11. If a site discharges to a stream where a federally endangered or threatened species or its habitat is present, the applicant should contact the US Fish and Wildlife Service to insure that requirements of the Federal Endangered Species Act are met.
12. Only chlorine tablets approved for use in disinfection of wastewater shall be utilized. Permittees are strictly prohibited from using chlorine tablets designed for use in swimming pools.
13. For systems installed after the effective date of this general permit, the chlorine contact chamber shall be visible and accessible for inspection and cleaning. Unless the system provides flow equalization to meet peak flows, the minimum size for the chlorine contact chamber shall be 25 gallons. Design of chlorine contact tanks shall be to minimize short-circuiting of flow. There shall be over and under or end-around baffling provided as per 64CSR47 Section 5.15.f.3 of the West Virginia Legislative Rules.
14. When the treatment system is installed and serviced, a tag, provided by the contractor, shall be attached to the system, or displayed within 2 feet of the system, in a readily accessible manner. The tag shall be constructed of a weatherproof material, or other means provided to protect the tag from weather related damage. The tag shall show the name of the service contractor, the date (m/d/y) of the most recent visit by the service contractor and the initials of the person conducting the service. Separate tags for each service visit, or a multi-visit tag, may be utilized. Tags shall remain in place for one year from the date of the last service shown. Tags shall list the WVG41xxxx registration number assigned to the permittee.
15. Section B. Management Conditions, Item 16 does not apply to existing facilities registered under this general permit prior to March 31, 2004.
16. The lid of the system shall not be buried. It shall be accessible for inspecting and maintaining the system. The WVG registration number shall be permanently inscribed on the lid of the system.
17. Facilities without daily use such as seasonal homes, vacation homes and churches shall only be covered under this permit if they are proposing the use of a media filter.
18. Systems shall be installed as per the configuration presented for NSF testing. All appliances, materials and attachments, of the same model and construction used during testing, shall be included in each installation. A trash tank shall be included in circumstances recommended by manufacturer. Flow equalization shall be included in circumstances recommended by manufacturer.
19. The discharge pipe shall be marked in a permanent manner with the WVG41xxxx registration number assigned to the permittee. Said marking must be affixed to the pipe itself, so as to distinguish it from other pipes, existing or future, which may terminate at the same location.
20. The use of a garbage disposal with a system covered under this permit is strictly prohibited.
21. If utilizing UV disinfection, all manufacturers recommended maintenance shall be performed at each service visit, at the frequency specified by the permit registration. At a minimum, this shall include removal, inspection and cleaning of the UV bulb assembly. The bulb shall be replaced at the manufacturer recommended interval or earlier if it is determined that the lamp is no longer delivering enough UV light to properly disinfect the waste water. The UV unit must include a built in mechanism to sense both, power loss, and inadequate UV intensity. These sensors must be properly connected to either a dedicated alarm, or to the alarm provided for the HAU or media filter. There shall be an electrical disconnect for the UV unit in an accessible location on the exterior of the dwelling to allow for service and inspection of the system at all times.
22. It is recognized that this general permit continues to be in developmental stage and its limitations, standards and conditions will be reviewed by the Director at the time of reissuance, or earlier if necessary, for possible revisions. Based upon that review, such revisions may be more or less stringent than the limitations, standards and conditions contained in this general permit.
23. All wiring and electrical connections must conform to manufacturer's recommendations as well as applicable federal, state and local codes.

The herein described activity is to be extended, modified, added to, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit; with all plans and specifications previously submitted with Facility Registration Application Form or individual permit application; with a plan of maintenance and method of operation thereof; and with any applicable rules and regulations promulgated by the State Environmental Quality Board and the Director of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this permit, with the plans and specifications previously submitted with Facility Registration Application Form or individual permit application, and with a plan of maintenance and method of operation thereof shall constitute grounds for the revocation or suspension of this permit and for the invocation of all the enforcement procedures set forth in Chapter 22, Article 11 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Article 11 of the Code of West Virginia.

BY:  _____

Scott G. Mandirola
Acting Director