



National Pollutant Discharge Elimination System (NPDES)

**Storm Water Management Program
Site Registration Form**

for

West Virginia

**Municipal Separate Storm Sewer Systems (MS4s)
General Permit WV0116025**

The site registration application (SRA) is for local governments or other regulated entities to submit the required information necessary for their Stormwater Management Program (SWMP) for compliance under the National Pollutant Discharge Elimination System (NPDES) MS4 General Permit to discharge stormwater runoff from a small municipal separate storm sewer system (MS4).

An authorized signature as required by 47CSR10 is needed to complete the application. All information should be included on this form or if needed, additional information can be attached at the end of the SRA.

Two (2) copies of the site registration application form shall be mailed to the address below.

**West Virginia Department of Environmental Protection
Division of Water and Waste Management – MS4 Program
601 57th Street, SE
Charleston, WV 25304**

Section I. General Information

MS4 Operator

Part II A.

1.a. Name of City, County or other public entity that operates a small MS4:

West Virginia Parkways Authority

1.b. Mailing Address:

PO Box 1469 Charleston WV 25325

Local staff contact, person responsible for overall program implementation and coordination.
(This is the person DEP will contact as the need arises for more information and/or details about your stormwater management program or general questions concerning stormwater in your community.)

1.c. Name Leslie Ball

1.d. Title Highway Programs Manager

1.e. Phone 304-256-6680

1.f. E-mail address lball@wvturnpike.com

Certification

47CSR10

By completing and submitting this application, I have reviewed and understand and agree to the terms and conditions of #WV0116025 small MS4 General Permit issued on June 22, 2009. I understand that provisions of the MS4 general permit are enforceable by law. Violations of any term and condition of the general permit and/or other applicable law or regulations can lead to enforcement action.

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 fine and imprisonment for knowing violations.

2.a. Authorized signature _____
(Mayor or Principle Executive Officer)

2.b. Print name Gregory C. Barr

2.c. Title WV Parkways Authority General Manager

2.d. Date _____

Co-permittees (Complete this section if co-permitting with another MS4 entity)

Part III. A.

- 3.a. Name of MS4 Operator N/A
- 3.b. Contact person
- 3.c. Telephone
- 3.d. Address
- 3.e. Email address
- 3.f. Have legal agreements been finalized between co-permittees?
- 3.g. If yes, provide agreement with this application. (With signatures)

Section II. Storm Sewer System

Description of storm sewer system

- 4.a. Area (in acres) that drains into the MS4 from outside the corporate or jurisdictional boundaries: approximately 563,005 acres
- 4.b. Area (in acres) within current corporate or jurisdictional boundaries: 2,041 acres
- 4.c. For all MS4s, population (using the most recent U.S. Census data) for area served: 82,126 (Universities: give current enrollment plus staff and faculty. Transportation agencies: give population of your MS4 in urbanized areas. Prisons; give current inmate plus staff population.)

Part IV.B.

- 4.d. Latitude and Longitude of representative outfall:
Longitude- Degrees: 81 Minutes: 12 Seconds: 47.1
Latitude- Degrees: 37 Minutes: 48 Seconds: 5.6

Part IV.B.

- 4.e. Describe the physical location of your representative outfall. If a street address is not possible use cross street descriptions.
The representative outfall is at the south end of the Beckley Service Plaza, behind the welcome center. A staircase provides access from the parking lot to the culvert.

Part IV.B.

- 4.f. Describe your monitoring plan to include the frequency and parameters.
The outfall will be sampled twice a year. The sample will be analyzed for Total Nitrogen, Nitrate Nitrogen, and Total Phosphorus.

Storm Sewer Infrastructure

Provide the most accurate number possible.

5.a. Storm sewers, in feet	77,088 ft
5.b. Open ditches, in feet	349,540 ft
5.c. Outfalls	235
5.d. Catch basins	692
5.e. Detention* facilities	0
5.f. Retention** facilities	0
5.g. Treatment facilities	0
5.h. Regional stormwater facilities	0

- 6.a. Does your MS4 receive stormwater discharges from WVDOT storm sewer system, roads or right-of-ways? **YES**
- 6.b. Does your MS4 discharge into WVDOT storm sewer systems or right-of-ways? **YES**
7. Is your MS4 interconnected with another MS4? (Does stormwater flow into or out of your storm sewer system to or from another MS4?) If yes, describe.
YES, the WV Parkways Authority MS4 flows into WV Department of Transportation storm drain system in the Charleston and Beckley jurisdictions.
8. Does your municipality contain combined sewer systems? **NO**
- 9.a. What percentage is drained by Combined Sewer System? **0%**
- 9.b. What percentage is drained by separate storm sewer system? **100%**

Industrial Facilities owned by the MS4 entity

Part II.C.b.6.d.

- 10.a. Does your MS4 own and/or operate an industrial facility that discharges stormwater into the MS4?
YES
- 10.b. If yes, how many? **14**

(Item 11 is intentionally empty)

Map Requirements

Please provide a legible map that identifies the following information:

- 12.a. City, County or jurisdiction boundaries
- 12.b. State or Federal operated vocational/college/university campuses and military institutions
- 12.c. Urban area as defined by the 2000 Census, use 2010 Census data if available
- 12.d. Municipal, County, or State wastewater treatment plants and their associated outfalls
- 12.e. Landfills
- 12.f. Municipal, County or State operated vehicle or fleet maintenance garages
- 12.g. Any other Municipal, County or State operated industrial activities, these could include; salt storage areas, parks and recreational areas, chemical storage areas, etc.
- 12.h. Arterial, Municipal, or State roads
- 12.i. Stormwater discharge points and receiving streams
Available upon request in the West Virginia Turnpike Record Drawings.
- 12.j. Streams and waterways within the MS4
- 12.k. Delineation of watershed area that drains into your MS4

Part.II.C.b.3.a.iv.

- 12.l. Submit paper maps folded to 8.5" x 11".

Part.II.C.b.3.a.iv.

- 12.m. Multiple maps must be of the same scale, 1:1000 or 1:2000.

Receiving Streams and Impaired Waterbodies/TMDLs

Part III.D.1

List all named receiving waters within your MS4 jurisdiction. Indicate those identified as impaired pursuant to Clean Water Act Section 303(d). For a listing of West Virginia's impaired water bodies and the source of impairment please use WVDEP's most recent 303d list found at this website:

http://www.dep.wv.gov/WWE/watershed/IR/Pages/303d_305b.aspx

Part III.D.1.a.

- 13. Locations & Pollutants of Concern

Local Name of receiving stream (DEP Stream Name) *If different	Intergrated Report Category	Stream Code	303d List or TMDL	Impaired Parameters	303d List Cycle/TMDL Approval Date
Campbells Creek Upper Kanawha River Watershed	4a	WVK-49	TMDL	CNA-Biological Fecal Coliform	2005 2005
Kanawha River (Upper) Upper Kanawha River Watershed	5	WVK-up	303d	PCBs	2014
Cabin Creek Upper Kanawha River Watershed	4a	WVK-61	TMDL	Aluminum (d) CNA-Biological Fecal Coliform	2005 2005 2005

				Iron pH	2005 2005
Paint Creek Upper Kanawha River Watershed	4a	WVK-65	303d	Iron (trout)	2014
Dry Branch Upper Kanawha River Watershed	4a	WVK-49-A	TMDL	Aluminum (d) CNA-Biological Fecal Coliform	2005 2005 2005
Lens Creek Upper Kanawha River Watershed	4a	WVK-53	TMDL	CNA-Biological Fecal Coliform Iron	2005 2005 2005
Witcher Creek Upper Kanawha River Watershed	4a	WVKA-57	TMDL	Aluminum (d) CNA-Biological Fecal Coliform Iron pH	2005 2005 2005 2005 2005
Dry Branch Upper Kanawha River Watershed	4a	WVK-57-A	TMDL	Aluminum (d) CNA-Biological Fecal Coliform Iron	2005 2005 2005 2005
Fields Creek Upper Kanawha River Watershed	4a	WVK-58	TMDL	Aluminum (d) CNA-Biological Fecal Coliform	2005 2005 2005
Slaughter Creek Upper Kanawha River Watershed	4a	WVK-60	TMDL	Aluminum (d)	2005
Little Creek Upper Kanawha River Watershed	4a	WVK060-A	TMDL	Aluminum (d) CNA-Biological pH	2005 2005 2005
Paint Creek Upper Kanawha River Watershed	4a	WVK-61-E	TMDL	Iron	2005
Greens Branch Upper Kanawha River Watershed	4a	WVK-61-G	TMDL	Fecal Coliform pH	2005 2005
Piney Creek Lower New Watershed	4a	WVKN-26	TMDL	Fecal Coliform Iron (trout) AQ	2008 2008
Cranberry Creek Lower New Watershed	4a	WVKN-26-E	TMDL	CNA-Biological Fecal Coliform Iron (trout) AQ, HH	2008 2008 2008
Little Whitestick Creek Lower New Watershed	4a	WVKN-26-E- 1	TMDL	Fecal Coliform	2008
Little Beaver Creek Lower New Watershed	4a	WVKN-26-F- 2	TMDL	CNA-Biological Fecal Coliform	2008 2008
Whitestick Creek Lower New Watershed	4a	WVKN-26-G	TMDL	CNA-Biological Fecal Coliform	2008 2008

****IMPORTANT****

MS4s that discharge into a receiving water which has been listed on the West Virginia Section 303(d) list of impaired waters, and with discharges that contain the pollutant(s) for which the water body is impaired, ***must document in the SWMP how the BMPs will control the discharge of the pollutant(s) of concern.*** They must demonstrate that there will be no increase of the pollutants of concern. As you work your way through, describing the various practices, consider how that BMP will address or control the pollutant of concern.

If your MS4 discharges into a water body with an approved TMDL, and that TMDL contains requirements for control of pollutants from the MS4 stormwater discharges, then your SWMP must include BMPs ***specifically targeted to achieve the wasteload allocations prescribed by the TMDL.*** A monitoring component to assess the effectiveness of the BMPs in achieving the wasteload allocations must also be included in the SWMP. Monitoring shall be specific for the pollutants of concern and be of sufficient frequency to determine if the stormwater BMPs are adequate to meet wasteload allocations. Monitoring can entail a number of activities including but not limited to: outfall monitoring, in-stream monitoring, and/or modeling.

- 14.a. List and quantify the BMPs you plan to implement to address each impairment. For each BMP describe how it is expected to control the pollutant of concern.

Of the impairments documented for the receiving streams within the WV Turnpike MS-4, it is determined that the pollutants possibly originating, at least partially, within the Turnpike right-of-way are the following:

- Fecal Coliform
- Iron (Fe)
- Bio-impairment (from stream siltation and hydromodification)

To reduce Fecal Coliform (FC), the WVPA will increase public awareness of the issue and causes of contamination. This will be done through pamphlets, posters, and public forums. Also the illicit discharge detection measures will reduce the FC content caused by illegal individual sewer outfalls. Grass swales, catch basin inserts, and vegetative filter strips, along with regular parking lot cleaning will also help eliminate FC pollutants caused by pet waste.

To further reduce FC, The Parkways Authority has begun stocking pet waste pickup bags at the Mile post 69 Rest Area and plans to stock bags at other rest areas and travel plazas by 2019. Also the hose connections at the travel plaza sewage package plants have been recently upgraded to reduce spillage during pump-out.

Earth disturbing activities that can increase Iron (Fe) pollutants are done by a Contractor. The Contractor is required to provide Sediment and Erosion Control Plans that are reviewed by an Engineer and enforced by an inspector.

To reduce future bio-impairment, strict erosion and sedimentation control standards will be followed and hydromodification will be avoided, if practical, for all new construction. Stormdrains will be inspected and cleaned periodically to reduce additional sediment flowing into receiving streams. The frequency of inspection depends on the latest assigned condition rating with the lowest rated (Rated

1) drains having annual inspections, the next highest rating (Rated 2) being inspected every two years, and the highest rated (Rated 3) drains undergoing inspection every three years. Also existing trees will be protected and new trees added adjacent to streams to reduce erosion.

Part III.D.1.b & Part III.D.2

14.b. Describe your monitoring plan for impaired waterbodies and those with TMDLs. Give locations and frequencies.

If the receiving stream has a TMDL, WVPA will sample stormwater outfall annually to confirm that the TMDLs are not being exceeded and that the pollutant of concern is being minimized. Paint Creek will be sampled during the permit term because it is the most likely location to be impacted by Fecal Coliform due to the Rest Area at Mile Post 69 Southbound. This location has the most amount of visitors and the most chance of runoff.

14.c. If visual documentation of removal of pollutant sources is a component of your plan please describe fully. For example, do you plan to use before and after photos?

Yes, we will take photos of removal if/when we remove them.

Evaluating the effectiveness of your SWMP for impaired waterbodies/TMDLs

14.d. Explain how your approach is expected to achieve wasteload allocations for waterbodies with established TMDLs. Discuss flow monitoring, outfall monitoring, in-stream monitoring, modeling, and/or other methodology to evaluate effectiveness.

By increasing public awareness through pamphlets, posters, and public forums, illicit discharge detection measures, structural stormwater controls (grass swales, catch basin inserts, vegetative filter strips), and regular parking lot cleaning wasteload allocations should be maintained or reduced.

14.e. Explain how will you determine if your SWMP and mix of BMPs need to be modified to meet wasteload allocations?

WVPA will modify BMPs as needed to ensure WLAs are met. The effectiveness of the BMPs will be determined by measured pollutant levels in outfall samples.

Section III. Minimum Control Measures

Instructions:

For each Minimum Control Measure (MCM), state your control objective and describe BMPs selected for implementation in your jurisdiction. For each BMP, include a brief description, measurable goals, and milestones as appropriate towards achieving each goal. Indicate if the BMP is part of an existing program and if another entity will share responsibility for implementing that BMP.

In cases where another entity will perform one or more BMPs or components thereof on behalf of the permittee, specifically describe the activities each entity will conduct and include reference to legal agreement where appropriate.

Describe as many BMPs as necessary to fulfill the requirements of the small MS4 General Permit. If you need more space attach additional pages.

Measurable Goals

Measurable goals are numeric or narrative standards used to gauge program effectiveness. These are design objectives or goals that quantify the progress of program implementation. For each BMP a measurable goal must be established. Describe what you expect to accomplish or achieve by certain dates or milestones, when you implement that particular BMP. Your expected outcome or accomplishment should be expressed as a measurable goal. You should have a variety of short and long term goals.

Milestones are a quantifiable target to measure progress toward achieving the activity or implementation of that BMP.

Additional guidance on selecting BMPs and developing measurable goals can be found at the following EPA website: www.epa.gov/npdes/stormwater/measurablegoals/index.htm

USEPA's measurable goal guidance can be found here:
<http://cfpub.epa.gov/npdes/stormwater/measurablegoals/index.cfm>

Your stormwater management program should specify:

- *What* needs to happen (Specific stormwater control measure)
- *Who* needs to do it (Which department of the MS4 will be implementing this stormwater control measure?)
- *How much* they need to do (milestones and measurable goals)
- *When* they need to get it done
- *Where* it is to be done

There must be specific performance measures. Without a goal, you will have a difficult time measuring progress.

Public Education and Outreach on Storm Water Impacts – MCM #1

Part II.C.b.1.

Responsible Person

Identify the responsible person(s) for implementing this MCM. (There may be more than one person or different departments that provide outreach to various targeted groups. If so, discuss.)

- 15.a. Name: [Leslie Ball](#)
- 15.b. Title: [Highway Programs Manager](#)
- 15.c. Department: [WV Parkways Authority Facilities Department](#)
- 15.d. Address: [374 George Street Beckley, WV 25801](#)
- 15.e. Phone number: [304-256-6680](#)
- 15.f. Email address: lball@wvturnpike.com

Part II.C.b.1.

15.g. State your overall objective for this minimum control measure. The objective is to educate the general public, contractors, consultants and turnpike travelers on the adverse environmental affects of polluted stormwater. This program will also convey the benefits of reducing pollutants and will outline simple measures that can be implemented by the public.

15.h. State and describe your BMPs. Indicate if BMP are part of your existing program.

A. Internet Website (Existing)

Informational material will be provided on the WVPA website. Educational material will outline what the public can do to reduce stormwater pollution and recent MS4 Annual Reports.

Measureable Goals

1. WVPA will document that stormwater educational materials for the general public, contractors, consultants and patrons traveling the Turnpike are made available on the WVPA website.
2. WVPA will document that the approved SWMP and the Program's Annual Reports have been made available on the WVPA website.
3. WVPA will document the number of visits to the website.

B. Posters and Pamphlets (Existing)

Informational material will be stationed at Morton Travel Plaza, Rest Area at Milepost 69 Southbound, Beckley Travel Plaza and Bluestone Travel Plaza. The informational material will educate the public on stormwater pollution prevention. WVPA website link will be provided in the material.

Measureable Goals

1. WVPA will document the number of stormwater educational materials distributed at each over the locations each year.
2. WVPA will document the number of visits to the website.

15.i. Is another entity sharing responsibility for the BMP? If so, who? No

MCM Components

Part II.C.b.1.a.i

15.j. Describe your education and outreach strategy targeting the general public.

The WVPA strategy of the public education consists of handing out stormwater educational materials to the general public and the patrons traveling the Turnpike. The general public will be addressed at public events to inform them about the importance of providing proper stormwater management and pollution prevention practices. The traveling patrons of the Turnpike will be informed by posters and pamphlets located along the Turnpike. The outreach message will focus on impacts from impervious surfaces and source control BMPs and environmental stewardship.

Part II.C.a.ii

15.k. Describe your education and outreach strategy targeting businesses including home-based and mobile businesses.

The consultants and contractors will be educated with pamphlets that have an outreach message that focuses on impacts from impervious surfaces and source control BMPs and environmental stewardship. The information is also available on the website.

Part II.C.b.1.a.iii.

15.l. Describe your education and outreach strategy targeting homeowners, landscapers, and property managers.

WVPA maintenance employees handle the landscaping on the Turnpike Right of Way. The employees are educated by posters and safety meetings where the use and storage of pesticides and fertilizers and auto maintenance are addressed. There are checklists provided for the meetings and each bullet point is discussed. A safety meeting sign-in sheet will be provided for each employee in attendance to sign.

Part II.C.b.1.a.iv

15.m. Describe your education and outreach strategy targeting engineers, contractors, developers, review staff, and land use planners.

All construction activities within the Turnpike Right of Way will be required to satisfy the Erosion and Sediment Control Manual provided by the WVDOH. WVPA will educate with handouts on runoff reduction techniques, stormwater treatment and flow control BMPs and the impacts of increased stormwater flows into receiving water bodies.

Schedule

Part II.C.a.1

15.n. Provide a schedule for implementing each component, including dates for interim and full implementation.

A. Internet Website (Existing)

Informational material will be provided on the WVPA website. Educational material will outline what the public can do to reduce stormwater pollution and recent MS4 Annual Reports.

Implementation Schedule

Implementation will be documented annually.

B. Posters and Pamphlets (Existing)

Informational material will be stationed at Morton Travel Plaza, Rest Area at Milepost 69 Southbound, Beckley Travel Plaza and Bluestone Travel Plaza. The informational material will educate the public on stormwater pollution prevention. WVPA website link will be provided in the material.

Implementation Schedule

Implementation will be documented annually.

Measurable Goals

Part II.B.4

15.o. List and fully describe your Measurable goal(s) for this MCM.

A. Internet Website (Existing)

Informational material will be provided on the WVPA website. Educational material will outline what the public can do to reduce stormwater pollution and recent MS4 Annual Reports.

Measureable Goals

1. WVPA will document that stormwater educational materials for the general public, contractors, consultants and patrons traveling the Turnpike are made available on the WVPA website.
2. WVPA will document that the approved SWMP and the Program's Annual Reports have been made available on the WVPA website.
3. WVPA will document the number of visits to the website.

B. Posters and Pamphlets (Existing)

Informational material will be stationed at Morton Travel Plaza, Rest Area at Milepost 69 Southbound, Beckley Travel Plaza and Bluestone Travel Plaza. The informational material will educate the public on stormwater pollution prevention. WVPA website link will be provided in the material.

Measureable Goals

1. WVPA will document the number of stormwater educational materials distributed at each over the locations each year.
2. WVPA will document the number of visits to the website.

Tracking

Part II.C.b.1.c.

15.p. Describe your plan to track the activities associated with this MCM.

Activities associated with this MCM will be documented with a WVPA data log. The activities that will be tracked are the number of pamphlets distributed, number of visits to the website and the number of employees that sign the safety meeting sign-in sheets. WVPA Control is informed by 911 dispatchers when a spill is reported and those calls are also recorded in a log.

Evaluation

Part II.B.7 & Part II.C.b.1.b.

15.q. Explain how you plan to gauge the effectiveness of your public education and outreach efforts.

The effectiveness of the program will be tracked via the number of visits to the website and calls to the 911 phone line.

Public Involvement and Participation – MCM #2

Part II.C.b.2.

Responsible Person:

Identify the responsible person(s) for implementing this MCM. There may be more than one person or different departments responsible for various projects. If so, discuss.

- 16.a. Name: Leslie Ball
16.b. Title: Highway Programs Manager
16.c. Department: WV Parkways Authority Facilities Department
16.d. Address: 374 George Street Beckley, WV 25801
16.e. Phone number: 304-256-6680
16.f. Email address: lball@wvturnpike.com
- 16.g. State your overall objective for this minimum control measure.
The objective of this control measure is to engage the general public and provide opportunities for participation in community pollution reduction programs.
- 16.h. State and describe your BMPs. Indicate if the BMP is part of the existing program.
A. Opportunity for Public to Comment on Changes to SWMP (New)
WVPA will make the Stormwater Management Plan (SWMP) available on the WVPA website to get feedback from the public and provide the contact information for the SWMP point of contact in the pamphlets.

Measureable Goals

1. WVPA will provide the SWMP on the WVPA website for public review and comment.
2. WVPA will document all public comments.
3. WVPA will document the number of calls and email to the WVPA point of contact for the SWMP.

B. Piney Creek Watershed, Beckley (New)

WVPA will participate in the Annual Piney Creek Watershed Celebration.

Measureable Goals

1. WVPA will advertise the event on the WVPA website.
2. WVPA will document the amount of pamphlets distributed.

- 16.i. Is another entity sharing responsibility for the BMP? If so, who?
No.

MCM Components

Part II.C.b.2.

- 16.j. Describe at least two methods you plan to use to engage the public in your SWMP.
1. Information concerning the Turnpike SWMP will be displayed on the WVPA website for public review and comment.
 2. WVPA will provide pamphlets at rest areas informing the public about the WVPA website and the contact information for the SWMP point of contact.

Part II.C.b.2.a

- 16.k. Describe how you will accommodate public participation in the decision making process for your SWMP.

The contact information of the SWMP point of contact will be distributed in the stormwater pollution prevention pamphlets and will be given at public information sessions. The public will be encouraged to contact this person with questions or input.

Part II.C.b.2.b

- 16.l. Describe your communication process for notifying groups of opportunities to become involved in stormwater activities in your watershed(s).

Organizations will be added to email groups and emails will be sent in advance of stormwater activities to encourage involvement.

Part II.C.b.2.c

- 16.m. List the URL of your *Stormwater* website.

http://www.transportation.wv.gov/Turnpike/Business/stormwater_mgmt

Schedule

Part II.C.a.1

- 16.n. Provide a timeline of implementation of each component of your program for this MCM, including dates for interim and full implementation.

Emails will be sent to watershed groups prior to upcoming events and at a minimum of once a year in the summer to report on the current status of the SWMP. The annual spring clean-up will typically take place in April.

Measurable Goals

Part IV.A. & Part II.B.4

- 16.o. List and fully describe your measurable goal(s) for this MCM.

A. Opportunity for Public to Comment on Changes to SWMP (New)

WVPA will make the Stormwater Management Plan (SWMP) available on the WVPA website to get feedback from the public and provide the contact information for the SWMP point of contact in the pamphlets.

Measureable Goals

1. WVPA will provide the SWMP on the WVPA website for public review and comment.
2. WVPA will document all public comments.
3. WVPA will document the number of calls and email to the WVPA point of contact for the SWMP.

B. Piney Creek Watershed, Beckley (New)

WVPA will participate in the Annual Piney Creek Watershed Celebration.

Measureable Goals

1. WVPA will advertise the event on the WVPA website.
2. WVPA will document the amount of pamphlets distributed.

Tracking

Part II.B.7.

- 16.p. Describe your plan for tracking activities associated with this MCM.
Bags of trash collected will be counted and documented. Also, the WVPA will report on the number of meetings and events with joint participation with the local watershed organizations and will list attendees. This information will be compiled and included in the Annual Report.

Evaluation

Part II.B.7

- 16.q. Explain how you plan to gauge the effectiveness of your Public Involvement and Participation program.
The effectiveness will be evident by the number of participants in the stormwater activities and by the volume of calls and emails to the WVPA point of contact for the SWMP.

Illicit Discharge Detection and Elimination – MCM #3

Part II.C.b.3.

Responsible Person

Identify the responsible person(s) for implementing this MCM. If there is more than one person or department responsible for implementation of this MCM, please discuss.

- 17.a. Name: Leslie Ball
17.b. Title: Highway Programs Manager
17.c. Department: WV Parkways Authority Facilities Department
17.d. Address: 374 George Street Beckley, WV 25801
17.e. Phone number: 304-256-6680
17.f. Email address: lball@wvturnpike.com
17.g. Is another entity sharing responsibility for the MCM? If so, who? Yes, The WVDOH.

Control Objective & BMPs

- 17.h. State your overall objective for this MCM.
The objective is to have a program to prevent or detect illicit connections and eliminate illicit discharges to the storm sewer system.
- 17.i. State and describe your BMPs. Indicate if any BMPs are part of your existing program.
- A. Illicit Connection Detection Program (Existing)
The WVPA will continue to inspect for illicit discharges and report to the WVDEP.

Measurable Goals

1. WV Turnpike Right of Way will be inspected three times a year during which time the number of illicit discharges are documented and included in the Annual Report. If no illicit discharges are encountered, the annual report will be updated to reflect such.

B. Illicit Connection Detection Program (Existing)

The WVPA will continue to inspect for illicit discharges and report to the WVDEP.

Measurable Goals

1. The number of WVPA maintenance employees that receive annual training on illicit discharge detected will be documented by an employee sign-in sheet.

MCM Components

Part II.C.b.3.a.

17.j. Do you have a current map of your municipal storm sewer system? **Yes**

Do your map components include/do you plan to include:

Part II.C.b.3.ai

17.k. All known storm sewer outfalls? **Yes**

17.l. Receiving waters? **Yes**

17.m. Structural BMPs owned, operated or maintained by the permittee? **Yes**

17.n. The location and type of all other stormwater conveyances located within the boundaries of the permittees MS4 watershed? **Yes**

17.o. Updating the known connections to the municipal separate storm sewer authorized after July 22, 2009? **Yes**

17.p. Geographic areas that discharge stormwater into the permittees MS4, which may not be located within the municipal boundary? **Yes**

Part II.C.b.3.b.

17.q. Do you have an IDDE Ordinance? **No, The WVPA is not authorized to create laws or ordinances.**

Part II.C.b.3.b.

17.r. Describe your Ordinance review and update procedure, including milestones of IDDE Ordinance review. **N/A**

Does your IDDE Ordinance prohibit the following:

Part II.C.b.3.ii

17.s. Discharges from hyperchlorinated water line flushing? **Yes or No. If not, how are these discharges handled when they occur?**

No, hyperchlorinated line flushing does not occur within the Turnpike right-of-way.

17.t. Lawn watering and other irrigation runoff? **Yes or No. If not, have you addressed lawn watering in your public education and outreach activities?**

No, grassed areas within the Turnpike right of way are not watered, but WVPA educates employees by training.

17.u. Street, parking lot, and sidewalk wash water, and external building wash down? **Yes or No. If not, have you addressed these types of runoff in your public education and outreach activities?**

Yes, the policy will address street, parking lot, sidewalk, and external building wash down. The policy will limit the number of wash occurrences of each element to two per year. Also no detergents will be permitted during the washings and wash water will be directed to inlets with catch basin inserts if possible.

Part II.C.b.3.b.v.

17.v. Does your IDDE Ordinance include escalating enforcement procedures and actions?

The policy will take appropriate allowed action and will escalate reporting to the WVDEP and local law enforcement if the illicit discharge continues.

Part II.C.b.3.b.v.

17.w. Briefly describe your enforcement strategy.

The WVPA will notify the discharger and the WVDEP of the illicit discharge and the discharger will be instructed to eliminate the discharge immediately. The WVDEP will be notified again and a complaint will be filed with local law enforcement if the discharge is not eliminated within 15 days.

Part II.C.b.3.c .

17.x. Describe your field assessment activities, including how many assessments you plan to conduct each year.

1. Three TMDL streams will be inspected a year for illicit discharge.
2. WVPA maintenance employees will inspect Turnpike Right of Way three times a year for illicit discharge.

Part II.C.b.3.c.i.

17.y. Describe how you will locate “priority areas”.

Priority areas will be around rest areas because they are the most likely to have illicit discharge due to the most visitors.

Part II.C.b.3.c .iii

17.z. Describe your procedures for characterization of illicit discharges.

Visual indicators, odor and laboratory testing will be used to assist in characterizing illicit discharges. Where visual indicators such as floatables, soap suds or discoloration are present, WVPA will treat as an illicit discharge and follow WVPA’s procedure for tracing the discharge to its source.

Part II.C.b.3.c .iv

17.aa. Describe your procedures for tracing the source of the discharge.

The source will be traced through visual inspection within the turnpike right of way and through discussion with local residents.

Part II.C.b.3.c.v

17.bb. Describe your procedures for removing the source of the discharge.

The WVPA will notify the discharger and the WVDEP of the unauthorized discharge. The WVDEP will be notified again if the discharge is not eliminated within 15 days. Unknown sources of illicit discharges will be reported to the WVDEP. Similarly, all illicit discharges at rest areas or maintenance facilities that are caused by motorists or property owners will be reported to the MS-4 coordinator. Toll booth operators and WVPA maintenance employees are instructed to report vehicle leaks to the WVPA and State Police. Hazardous material pull-off areas have been established in the vicinity of the toll plazas so that material discharge will remain in a controlled area. Additionally, motorists found discharging materials illegally on WVPA property will be detained by law enforcement and citations will be issued.

C.b.3.d.

17.cc. Describe how you will inform public employees, businesses and the general public of hazards associated with illegal discharges and improper disposal of waste.

General and emergency responses are filtered to WVPA from the state emergency response system. The state emergency response system has a website and the information is generally broadcasted on news stations. Pamphlets and posters will be available for the public at the travel plazas. There are signs posted at the travel plazas to discourage improper disposal at the travel plazas.

Part II.C.b.3.f.

17.dd. Describe your plan to train your staff on the identification and reporting of illicit discharges. Include the number of training sessions planned for each year.

The WVPA staff will be trained annually on pollution prevention. The maintenance crews will be trained on identification of illicit discharges and the procedure of reporting the issue.

Schedule

Part II.C.a.1

17.ee. Describe how and when you will implement each component of program, including dates for interim and full implementation.

A Illicit Connection Detection Program (Existing)

The WVPA will continue to inspect for illicit discharges and report to the WVDEP.

Implementation Schedule

1. WV Turnpike Right of Way will be inspected three times a year.
2. The number of WVPA maintenance employees will be trained annually.

Measurable Goals

Part II.B.4

17.ff. List and fully describe your Measurable goal(s) for this MCM:

1. WV Turnpike Right of Way will be inspected three times a year during which time the number of illicit discharges are documented and included in the Annual Report. If no illicit discharges are encountered, the annual report will be updated to reflect such.
2. The number of WVPA maintenance employees that receive annual training on illicit discharge detected will be documented by an employee sign-in sheet.

Tracking:

Part II.C.b.3.d.ii & Part II.C.b.3.e.

17.gg. Describe your procedures for tracking activities related to each component of this MCM.

1. The number of illicit discharges reported through 911 state emergency services will be tracked in a log.
2. Each inspection performed by WVPA maintenance employees will be documented in a log.
3. The number of WVPA maintenance employees that receive annual training on illicit discharge detected will be documented by an employee sign-in sheet.

Evaluation

Part II.B.7

17.hh. Fully explain how you plan to gauge the effectiveness of your IDDE program.

The effectiveness of WVPA IDDE program will be evaluated by the number of WVPA maintenance employees trained on IDDA, the number of field inspections completed and the number of illicit connections confirmed and corrections achieved.

Construction Site Run-off Control – MCM #4

Part II.C.b.4.

Responsible Person:

Identify the responsible person(s) for implementing this MCM. There may be more than one person or different departments responsible for various projects. If so, discuss.

- 18.a. Name: Leslie Ball
- 18.b. Title: Highway Programs Manager
- 18.c. Department: WV Parkways Authority Facilities Department
- 18.d. Address: 374 George Street Beckley, WV 25801
- 18.e. Phone number: 304-256-6680
- 18.f. Email address: lball@wvturnpike.com
- 18.g. Is another entity sharing responsibility for this MCM? If so, who? No

Control Objective & BMPs

- 18.h. State your overall objective for this minimum control measure.

The WVPA will enforce Erosion and Sediment Control at construction sites, enforce management of construction-generated waste, enforce management of construction-related hazardous materials and provide BMP information and requirements to the contractor.
- 18.i. State and describe your BMPs. Indicate which BMPs are part of your existing program.
 1. The WVPA will require our construction site operators to implement appropriate erosion and sediment control best management practices through use of WVPA's environmental permit process for all construction, NPDES Permit, the WVDOH Erosion & Sediment Control Manual, & testing & use of innovative technologies.
 2. The WVPA will require our construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality.
 3. The WVPA will review & require implementation of pollution control plans which consider potential water quality impacts as required by the WVPA construction permit and WVDEP NPDES Permit.

All BMPs are part of the WVPA existing program.

MCM Components

Part II.C.b.4.a.

18.j. Do you have an Ordinance to control construction site run-off?

No.

Part II.C.b.4

18.k. Does your program regulate disturbance of an acre or more and also less than one acre if part of a larger common plan? Does your Ordinance regulate disturbances of less than one acre? If so, what is the size threshold?

Yes. No. Erosion and Sediment Control Plan is required for all constructions projects within the Turnpike Right of Way regardless of the size. The plan must be approved by the WVPA Project Manager prior to construction.

Part II.C.b.4.a.i-ix.

18.l. Does your Ordinance contain the nine required components?

No Ordinance but WVPA abides by [The WVDOH Erosion and Sediment Control Manual](#).

Part II.C.b.4.b.

18.m. Describe the plan review process for your construction site run off program.

The erosion and sediment control plan is submitted by the contractor or designer to the WVPA Project Manager and the WVPA General Engineering Consultant. Notice to proceed is not issued for the project until the erosion and sediment control plan is approved.

18.n. Describe the inspection process of your construction site run off program.

For roadway and facility construction projects, an inspector is present during all construction activities.

18.o. Describe the enforcement process of your construction site run off program.

The WV Parkways Authority can halt construction if there is deviation from the erosion and sediment control plan. Also, the inspector may require additional measures of erosion and sediment control if there is an apparent need to do so.

Part II.C.b.4.b.

18.p. Discuss how your program will address the regulation of both private and public sector construction site run-off.

Public sector is as described above. There is no private sector construction within the Turnpike right of way.

Schedule

Part II.C.b.4.a.

18.q. The Ordinance shall be reviewed on an annual basis. Describe your Ordinance review and update procedures.

N/A

- 18.r. If your Ordinance does not contain the standards required by the permit, provide a schedule for implementation and measurable goals for getting these components into your Ordinance. Include a mid-point and full implementation date.
The standards of the permit are met.

Measurable Goals

Part IV.A. & Part II.B.4

- 18.s. List and fully describe your measurable goal(s) for this minimum control measure.
1. The WVPA will require our construction site operators to implement appropriate erosion and sediment control best management practices through use of WVPA's environmental permit process for all construction, NPDES Permit, the WVDOH Erosion & Sediment Control Manual, & testing & use of innovative technologies.
 2. The WVPA will require our construction site operators to log the amount of waste such as discarded building materials, concrete truck washout, chemicals, litter and sanitary waste at the construction site that may cause adverse impacts to water quality.
 3. The WVPA will inspect and enforce control measures weekly.

Tracking

Part II.B.7.

- 18.t. Describe your plan for tracking activities associated with this minimum control measure.
1. The number of erosion and sediment control plans submitted and reviewed will be documented and submitted with the Annual Report.
 2. The amount of waste that may cause adverse impacts to water quality will be log by the construction site operators.
 3. The number of weekly inspections will be logged per construction site.

Evaluation

Part II.B.7

- 18.u. Explain how you plan to gauge the effectiveness of your Construction Site Run-off Control program. The effectiveness of the Construction Site Run-off Control program will be gauged by the number of emails the WVPA project manager receives from the construction site operators or the inspector concerning run-off, by the number of Erosion and Sediment controls installed at sites, the amount of waste collected/disposed of at sites, number of Pollution Prevention Plans, or number of enforcement actions by the inspectors at the site.

Controlling Run-off from New Development and Redevelopment – MCM #5

Part II.C.b.5

Responsible Person(s):

Identify the responsible person(s) for implementing this MCM. There may be more than one person or department responsible for various portions of this control measure, If so, discuss.

- 19.a. Name: [Leslie Ball](#)
- 19.b. Title: [Highway Programs Manager](#)
- 19.c. Department: [WV Parkways Authority Facilities Department](#)
- 19.d. Address: [374 George Street Beckley, WV 25801](#)
- 19.e. Phone number: [304-256-6680](#)
- 19.f. Email address: lball@wvturnpike.com

- 19.g. Is another entity sharing responsibility for this MCM? If so, who?
[No.](#)

Control Objectives & BMPs

- 19.h. State your overall objective for this MCM.
[Implement a program to reduce pollutants in stormwater runoff from new development and redevelopment.](#)

MCM Components

Watershed Protection Elements

Part II.C.b.5.ai.

- 19.i. Have you incorporated the six watershed protection elements into your subdivision ordinance or equivalent document? Name the document(s) where each element is found & give the review date for the document. * If there is no review, describe how you will incorporate the element into your document(s).

[The only new development or redevelopment that takes place is pavement projects. WVPA only maintains the existing impervious area. If any of these become applicable in the future, they can be addressed in the contract.](#)

Watershed Protection Elements	Name of document that contains the element	*Review Date
1. Minimizing impervious surfaces	If applicable, addressed in contract	Construction Contract
2. Preserving ecologically sensitive areas	If applicable, addressed in contract	Construction Contract
3. Reducing thermal impacts	If applicable, addressed in contract	Construction Contract
4. Reducing or avoiding hydromodification	If applicable, addressed in contract	Construction Contract
5. Tree protection	If applicable, addressed in contract	Construction Contract

6. Protection of native soils, prevention of compaction of soils	If applicable, addressed in contract	Construction Contract
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Part II.C.b.5.a.i.B

19.j. List your quantifiable objectives for each watershed protection element, including time frames to achieve them.

These will be contract specific if and when they occur.

19.k. State and describe your BMPs. Indicate if any BMPs are part of your existing program.

1. Inventory ecological areas within 6 months of the approval of the SWMP and then inspect and maintain annually thereafter. (New)
2. The inventory of all stormwater control facilities (catch basin inserts, sand filters, etc) will be kept along with digital photos of each facility.
3. Facilities will be evaluated for the addition of trees along adjacent streams. One evaluation for damaged trees in need of replacement will be conducted annually. (Existing)

Site Design Standards

Part II.C.b.5a.ii.A.1.

19.l. Do you have an ordinance or other enforcement mechanism for the required site design standards? If not, what is your schedule of implementation? Include mid-term and full implementation dates for Ordinance review and enactment.

WVPA abides by the WVDOH Site Design Standards.

Part II.C.b.5.ii.A.2.i,ii

19.m. Does your Ordinance have provisions for reducing pollutant loadings for stormwater discharges from Hot Spots? If the project is a potential hot spot and cannot meet water quality treatment with on-site controls, are there provisions for proper disposal of stormwater discharges at a treatment/disposal facility?

No Ordinance, WVPA abides by the WVDOH Site Design Standards.

Part II.C.b.5.ii.A.2.iii

19.n. Do you know where drinking water source protection areas are located within your MS4 watershed? Describe how this information will be kept confidential, and made available to WVDEP only when requested.

There are no known drinking water source protection areas within the MS4 watershed.

19.o. Describe your program for reducing impervious surfaces.

Turnpike maintenance crews will begin identifying and removing pavement at Turnpike rest areas and maintenance facilities that is not being utilized.

19.p. If you choose mitigation/payment in lieu for those projects that cannot implement the one inch runoff reduction requirements, please provide a time frame for creating an inventory of appropriate mitigation projects, and your process to develop standards to value, evaluate, and track transactions.

(Note: WVDEP has plans to create standard criteria and guidance material to assist MS4's in developing a mitigation and payment in lieu program. If your MS4 does not already have a mitigation or payment in lieu program – make a statement in the SWMP that you do not have one. If

you want to use what WVDEP develops, then make a statement to that effect. If you are planning to develop your own mitigation and payment in lieu program, then your SWMP has to include a time frame for development of this program.)

The WVPA will attempt to meet the one inch runoff reduction requirements for construction of all new facilities.

Part II.C.b.5.ii.B.(1)

19.q. Describe the planning process for new development and redevelopment projects in your MS4.

All new development and redevelopment site projects will be determined by the WVPA. The WVPA then notifies the general engineer, HNTB. HNTB produces the Site Design Plans per the WVDOH Site Design Standards. The Site Design Plans are reviewed by the WVPA project manager. Upon approval, a mandatory pre-bid conference is held with prospective contractors. The bids are solicited from contractors. The bids are reviewed by WVPA and HNTB. The project is awarded and a pre-construction conference is held.

Part II.C.b.5.ii.B(2)&(3)

19.r. Describe your plan review and approval process for new development and redevelopment projects.

All new development and redevelopment site projects will be determined by the WVPA. The WVPA then notifies the general engineer, HNTB. HNTB produces the Site Design Plans per the WVDOH Site Design Standards. The Site Design Plans are reviewed by the WVPA project manager. Upon approval, a mandatory pre-bid conference is held with prospective contractors. The bids are solicited from contractors. The bids are reviewed by WVPA and HNTB. The project is awarded and a pre-construction conference is held.

Part II.C.b.5.ii.C

19.s. Describe your maintenance procedures for structural stormwater control practices including a detailed discussion about maintenance agreements & your ability to enforce them.

All storm water facilities within the Turnpike right of way are maintained by the Turnpike Maintenance Crews.

Part II.C.b.5.ii.D

19.t. Describe your method of inventory and tracking of stormwater control practices for this MCM.

The inventory of all stormwater control facilities (catch basin inserts, sand filters ect) will be kept along with digital photos of each facility.

Part II.C.b.5.ii.E

19.u. Describe your inspection protocol for ensuring stormwater control BMPs/practices function as designed and constructed: How many per year? How often?

All stormwater control BMPs will be inspected once per permit term and more often if maintenance requires such.

Part II.C.b.5.b.

19.v. Does your MS4 have requirements for street design, parking, and parking lots? If so, which departments regulate this?

Yes, parking lots. The facilities and maintenance departments regulate this.

Schedule

Part II.C.b.5

- 19.w. Describe how and when you will implement each component of this minimum control measure. Include mid-point and full implementation dates for Ordinance revisions, implementation of plan review and approval, inspection and enforcement procedures, and for developing/acquiring and using a tracking system.
1. Inventory ecological areas within 6 months of the approval of the SWMP and then inspect and maintain annually thereafter.
 2. Catch basin inserts will be installed at the travel plazas. The number installed will be logged and the load reduction recorded.
 3. Facilities will be evaluated for the addition of trees along adjacent streams. One evaluation for damaged trees in need of replacement will be conducted annually.

Measurable Goals

Part IV.A

- 19.x. List and describe your measurable goals for this MCM.
1. Inventory ecological areas within 6 months of the approval of the SWMP and then inspect and maintain annually thereafter.
 2. Catch basin inserts will be installed at the travel plazas. The number installed will be logged and the load reduction recorded.
 3. Facilities will be evaluated for the addition of trees along adjacent streams. One evaluation for damaged trees in need of replacement will be conducted annually.

Evaluation

Part II.B.7

- 19.y. Describe how you plan to gauge the effectiveness of your program for this MCM.
The effectiveness of WVPA program will be gauged by the number of inspections, the number of damaged trees replaced and the amount of load reduction per catch basin installed.

Pollution Prevention/Good Housekeeping for Municipal Operations- MCM #6

Part II.C.b.6

Responsible Person(s):

Identify the responsible person(s) for implementing this MCM. There may be more than one person or different departments responsible for various projects. If so, discuss.

- 20.a. Name: Leslie Ball
20.b. Title: Highway Programs Manager
20.c. Department: WV Parkways Authority Facilities Department
20.d. Address: 374 George Street Beckley, WV 25801
20.e. Phone number: 304-256-6680
20.f. Email address: lball@wvturnpike.com
20.g. Is another entity sharing responsibility for this MCM? If so, who? No

Control Objectives & BMPs

- 20.h. State your overall objective for this MCM.
The objective is to reduce discharge of contaminated storm water run-off from the Turnpike Maintenance facilities.
- 20.i. State and describe your BMPs. Indicate if any BMPs are part of your existing program.
 - The WVPA will continue annual pollution prevention training with all maintenance employees
 - The WVPA will continue the parking lot cleaning program.
 - The WVPA will continue the storm drain system inspection and cleaning program.

MCM Components

Part II.C.b.6

- 20.j. List the municipal facilities and their locations owned by your MS4.

Facilities	Location
WVPA Headquarters	3310 Piedmont Road Charleston, WV 25306
Reed Maintenance	Route 60 Interchange and Piedmont Road at Reed
Chelyan Maintenance	Off Exit 85 – Chelyan
Morton Travel Plaza	Milepost 72 Northbound
WVG551405 Rest Area 69 (sewer)	Milepost 69 Southbound
WVG610697 Standard Maintenance (Industrial - Storm Water)	Standard Interchange near Milepost 74 and Paint Creek Road
WVG611086 Beckley Travel Plaza (Industrial-Storm Water)	Exit 45 North and Southbound
WVG611097 Beckley Maintenance (Industrial - Storm Water)	Harper Road Interchange and Pikeview Drive in Beckley
WVRNE0020 Beckley West Maintenance Facility	Off Exit 44 – On Neptune Dr.
WVRNE0021 Beckley South Maintenance Facility	374 George St, Beckley, WV 25801
Princeton Maintenance	Off Exit 9 – On Ambrose Lane
Princeton Travel Plaza	186 Greasy Ridge Rd, Princeton, WV 24739
Bluestone Travel Plaza (Industrial – Individual) WVG611109	Milepost 17 Northbound
WVG610477 Ghent Maintenance Facility (Industrial – Storm Water)	Off Exit 28 – On Odd Rd.

Part II.C.b.6.a

- 20.k. Briefly describe your operation and maintenance program for each municipal facility.

WVPA Headquarters – Office personnel only. No maintenance other than yard maintenance. This location does have fuel pumps to refuel vehicles.

Reed Maintenance – A storage facility only.

Beckley West Maintenance and Beckley South Maintenance – This location houses maintenance personnel and equipment.

Chelyan Maintenance – This location has a building storing approximately 1,500 tons of rock salt. This location houses the maintenance personnel and equipment used to maintain the toll barrier facilities. There are no maintenance activities at this location.

Standard Maintenance, Beckley Maintenance and Ghent Maintenance – This location has a building storing approximately 3,500 tons of rock salt. This location houses the maintenance personnel and equipment used to maintain the toll barrier facilities. There is also a fueling station at this location. There are no maintenance activities at this location.

Morton Travel Plaza, Bluestone Travel Plaza and Beckley Travel Plaza – This is a rest area for the traveling public. It has facilities, restaurants, tourist information personnel to give directions and fueling station. There are no maintenance activities at this location other than yard maintenance.

Princeton Maintenance – This location has a building storing approximately 3,500 tons of rock salt. There is also 5000 gallons of salt brine stored at this location as well as 5,000 gallons of calcium chloride. There are no maintenance activities at this location.

Princeton Maintenance – This location has a building storing approximately 3,500 tons of rock salt. There is also 5000 gallons of salt brine stored at this location as well as 5,000 gallons of calcium chloride. There are no maintenance activities at this location.

Rest Area 69 and Princeton Travel Plaza – This is a rest area for the traveling public. It has facilities, snack machines and tourist information personnel to give directions. There are no maintenance activities at this location other than yard maintenance.

Part II.C.b.6.a

20.1. Does each site have a pollution prevention plan? Is there a spill response plan included in the pollution prevention plan? If not, provide a time frame for developing pollution prevention plans at all MS4 owned municipal facilities, including mid-point and full completion dates.

Yes. Yes.

Part II.C.b.6.b

20.m. Have you identified all the lands owned or operated by your MS4? (Such as parks, road right-of-ways, maintenance yards, and water/sewer/stormwater infrastructure.)

Yes.

Part II.C.b.6.b

20.n. Describe your overall pollution control approach policy and procedures for these lands.

The Turnpike right-of-ways are generally covered in vegetation or stone for erosion control. Fertilizers and pesticides are not used. The grassed areas are periodically mowed but the clippings left to compost, so there is little, if any, vegetation disposal. The garbage along the Turnpike is collected annually. Inlets and catch basins are cleaned as needed along the Turnpike

Part II.C.b.6.c

20.o. Describe your training program including your target employees, and how often training occurs. All maintenance employees have pollution prevention training annually. The training encompasses ways to prevent pollution, proper material storage, and spillage clean-up. The training also provides

guidance on how to spot illicit discharges, and other sources of pollution within the Turnpike right-of-way.

20.p. For any industrial facilities owned or operated by your MS4, list each facilities registration number under the WV NPDES General Permit for Storm Water Discharges Associated with Industrial Activities or the individual WV NPDES permit number. If your industrial facilities are not covered under another NPDES permit, you must will prompted to provide additional information below.

WVG551405 Rest Area 69 (sewer)
WVG611109 Bluestone Plaza (Industrial – Individual)
WVG610477 Ghent Maintenance (Industrial – Storm Water)
WVG610697 Standard Maintenance (Industrial - Storm Water)
WVG611086 Beckley Travel Plaza (Industrial- Storm Water)
WVG611097 Beckley Maintenance (Industrial - Storm Water)
WVRNE0020 Beckley West Maintenance Facility
WVRNE0021 Beckley South Maintenance Facility

Schedule

Part II.C.b.6

20.q. Describe how and when you will implement each component of your program for this minimum control measure. Include mid-point and full implementation dates.

1. At WVPA Headquarters, Reed Maintenance and Chelyan Maintenance storm filters have been installed and the load reduction will be documented annually.
2. The parking lots within this MS4 will be cleaned upon approval of the SWMP and once annually thereafter.
3. The WVPA will continue the storm drain system inspection annually.
4. The WVPA will continue the storm drain system cleaning program annually.
5. Annual training on the roadways to prevent pollution that can impact waterways.

Part II.C.b.6

20.r. Describe the inspection schedule for ensuring municipal facilities are in compliance with pollution prevention plans.
Inspections of each facility will occur annually.

Measurable Goals

Part IV.A

20.s. List and fully describe your measurable goals for this MCM.

1. At WVPA Headquarters, Reed Maintenance and Chelyan Maintenance storm filters have been installed and the load reduction will be documented annually.
2. The parking lots within this MS4 will be cleaned upon approval of the SWMP and once annually thereafter and the load reduction will be recorded in a log.
3. The WVPA will continue the storm drain system inspection annually.
4. The WVPA will continue the storm drain system cleaning program annually and the load reduction will be recorded in a log.
5. Annual training on the roadways to prevent pollution that can impact waterways and the number of employees trained will be recorded by sign-in sheets.

Tracking

Part II.B.7 & Part II.C.b.6.a.iii

- 20.t. Describe your plan for record keeping and tracking of facilities, employee training, pollution prevention plans, and inspections for this MCM.
1. Storm filters will be checked annually and the load reduction will be recorded in a log.
 2. The parking lots within this MS4 will be cleaned upon approval of the SWMP and once annually thereafter and the load reduction will be recorded in a log.
 3. The WVPA will continue the storm drain system inspection annually.
 4. The WVPA will continue the storm drain system cleaning program annually and the load reduction will be recorded in a log.
 5. Annual training on the roadways to prevent pollution that can impact waterways and the number of employees trained will be recorded by sign-in sheets.

Evaluation

Part II.B.7

- 20.u. Explain how you plan to gauge the effectiveness of your good housekeeping/ municipal operations program efforts?
- The effectiveness of the BMPs will be gauged via the reduction in the load by storm filters, the number of storm drains inspected, the reduction in load by the storm drain system cleaning program and the amount of employees trained.

Industrial Stormwater Coverage for Municipal Operations

If your facility/s discharges stormwater from any industrial operation that is not covered under another NPDES permit, you must now obtain coverage for those discharges.

- 20.v. For each facility, provide the name and contact information of the operator if applicable.
N/A

- 20.w. For each outlet, list the latitude and longitude to the nearest second and the River Mile Point (if known).

Outlet Number	Longitude			Latitude			River Mile
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	
002 - MTP	-81	22	56	38	6	8	
003 - MTP	-81	22	55	38	6	11	
004 - MTP	-81	23	3	38	6	15	
005 - CMF	-81	29	53.9	38	11	39.5	
006 - PMF	-81	3	16.8	37	21	37.1	

- 20.x. List the Standard Industrial Classification (SIC) Code designated for your facility/s.
4173 - Terminal and Service Facilities for Motor Vehicle Passenger Transportation
5541 - Gasoline Service Stations
5812 - Eating Places

20.y. List the nature of activity at the industrial facility.

Chelyan Maintenance – This location has a building storing approximately 1,500 tons of rock salt. This location houses the maintenance personnel and equipment used to maintain the toll barrier facilities. There are no maintenance activities at this location.

Morton Travel Plaza – This is a rest area for the traveling public. It has facilities, restaurants, tourist information personnel to give directions and fueling station. There are no maintenance activities at this location other than yard maintenance.

Princeton Maintenance – This location has a building storing approximately 3,500 tons of rock salt. There is also 5000 gallons of salt brine stored at this location as well as 5,000 gallons of calcium chloride. There are no maintenance activities at this location.

20.z. Is there a wet pond at your facility that collects runoff from areas on which industrial activities occur?

If so, how many acres drain into it?

No

20.aa. Is there a dry pond at your facility that collects runoff from areas on which industrial activities occur?

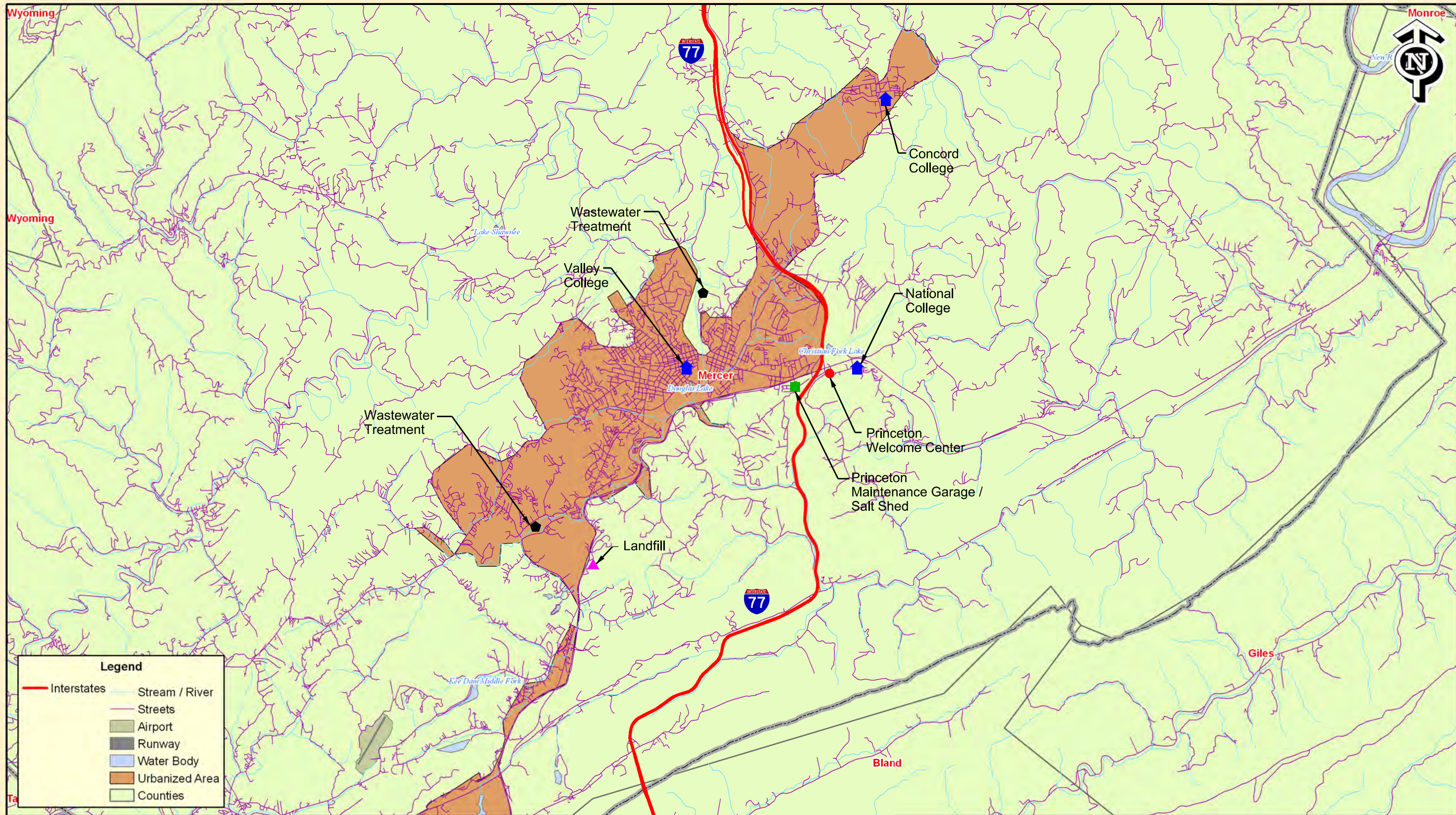
If so, how many acres drain into it?

No

20.bb. Do any of your storm water outlets discharge through an oil water separator? If yes, provide the outlet numbers.

Yes, but all are at facilities covered by separate NPDES permits.

Based on your responses to this section, a Discharge Monitoring Report may be issued.



Legend

- Interstates
- Stream / River
- Streets
- Airport
- Runway
- Water Body
- Urbanized Area
- Counties

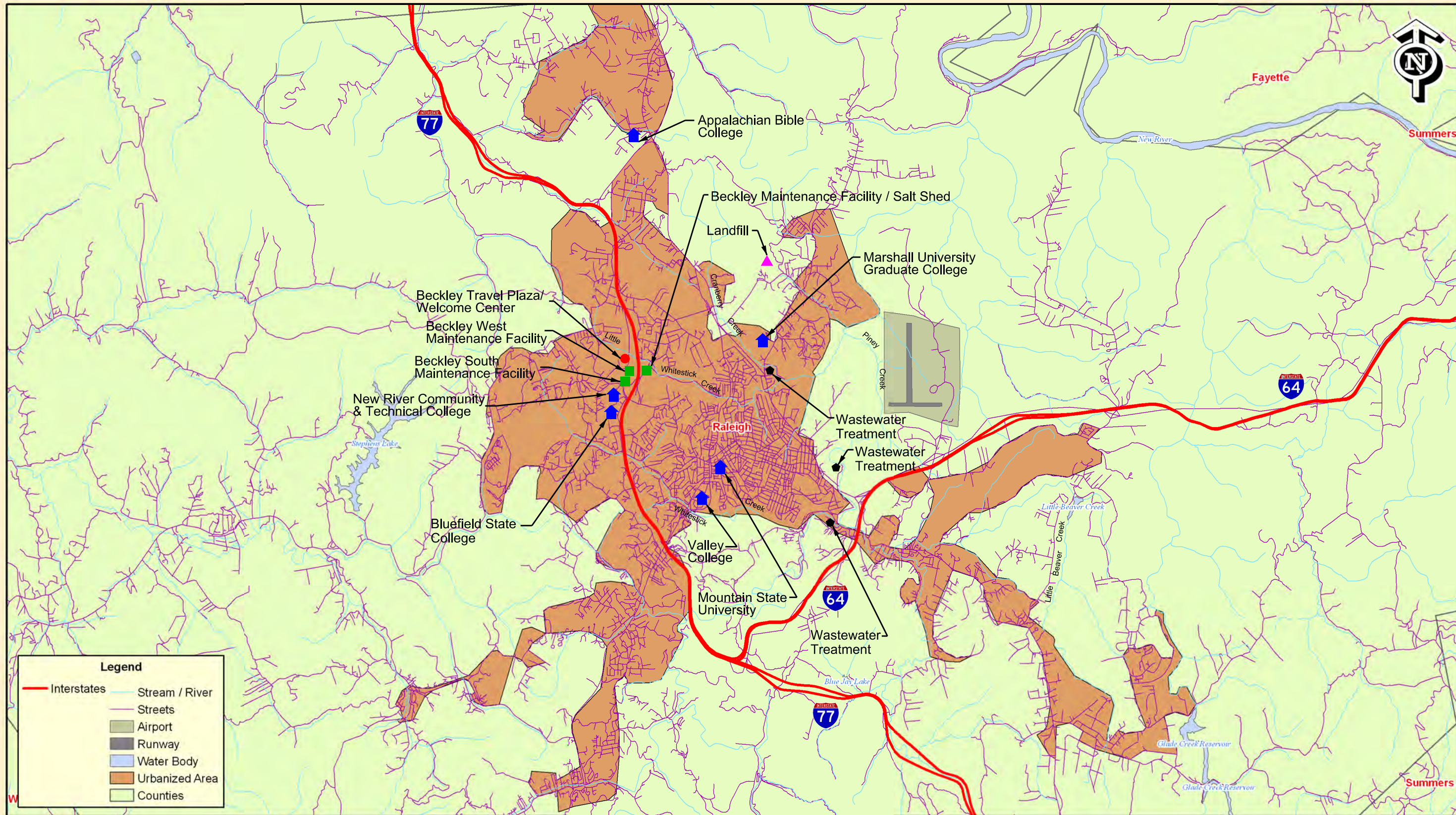
Bluefield, West Virginia

Urbanized Area



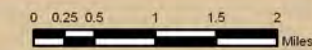
Albers Projection
 Central Meridian: -96
 1st Std Parallel: 20
 2nd Std Parallel: 60
 Latitude of Origin: 40





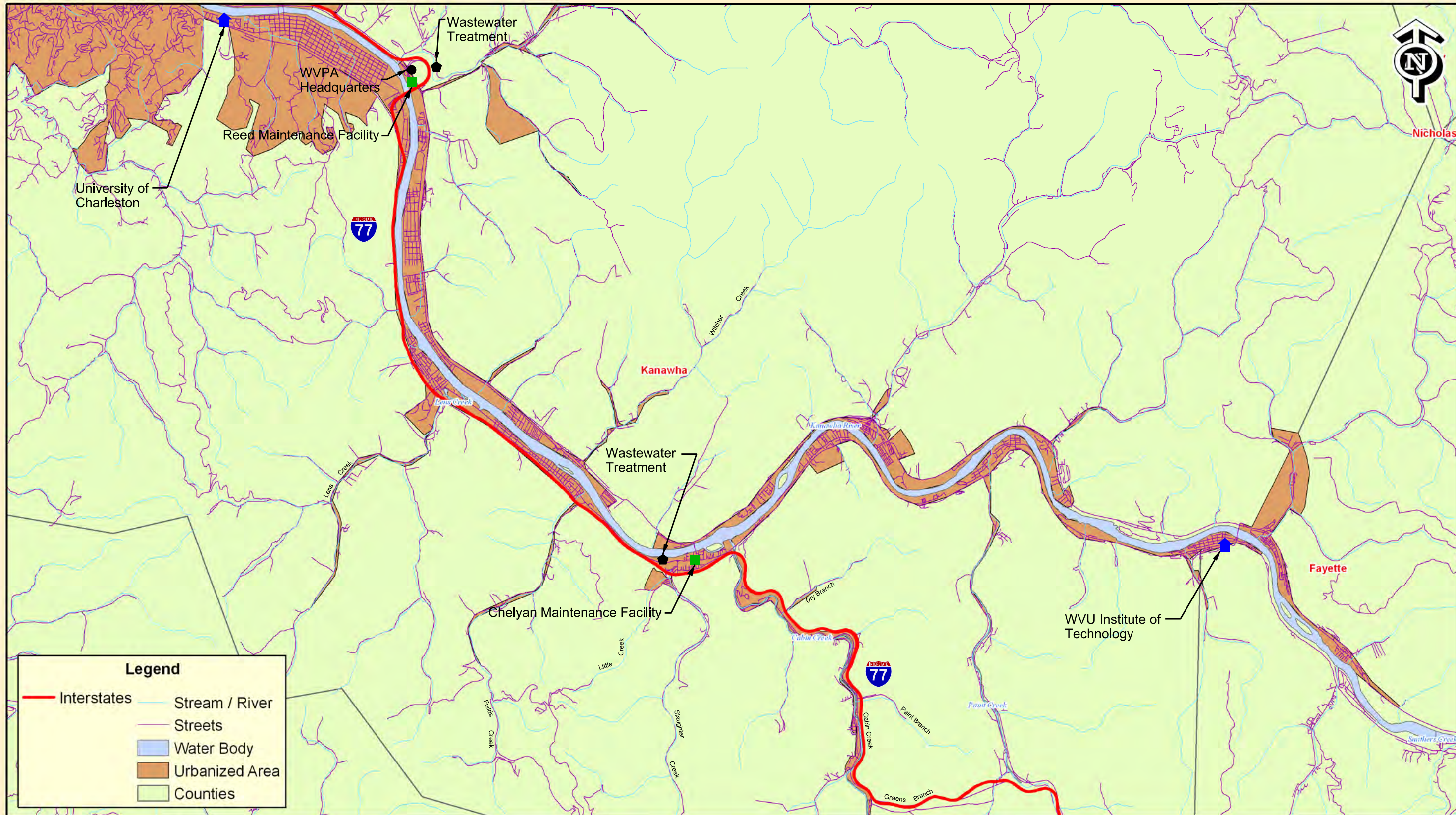
Beckley, West Virginia

Urbanized Area



Albers Projection
 Central Meridian: -96
 1st Std Parallel: 20
 2nd Std Parallel: 60
 Latitude of Origin: 40





Nicholas

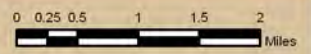
Fayette

Legend

- Interstates
- Stream / River
- Streets
- Water Body
- Urbanized Area
- Counties

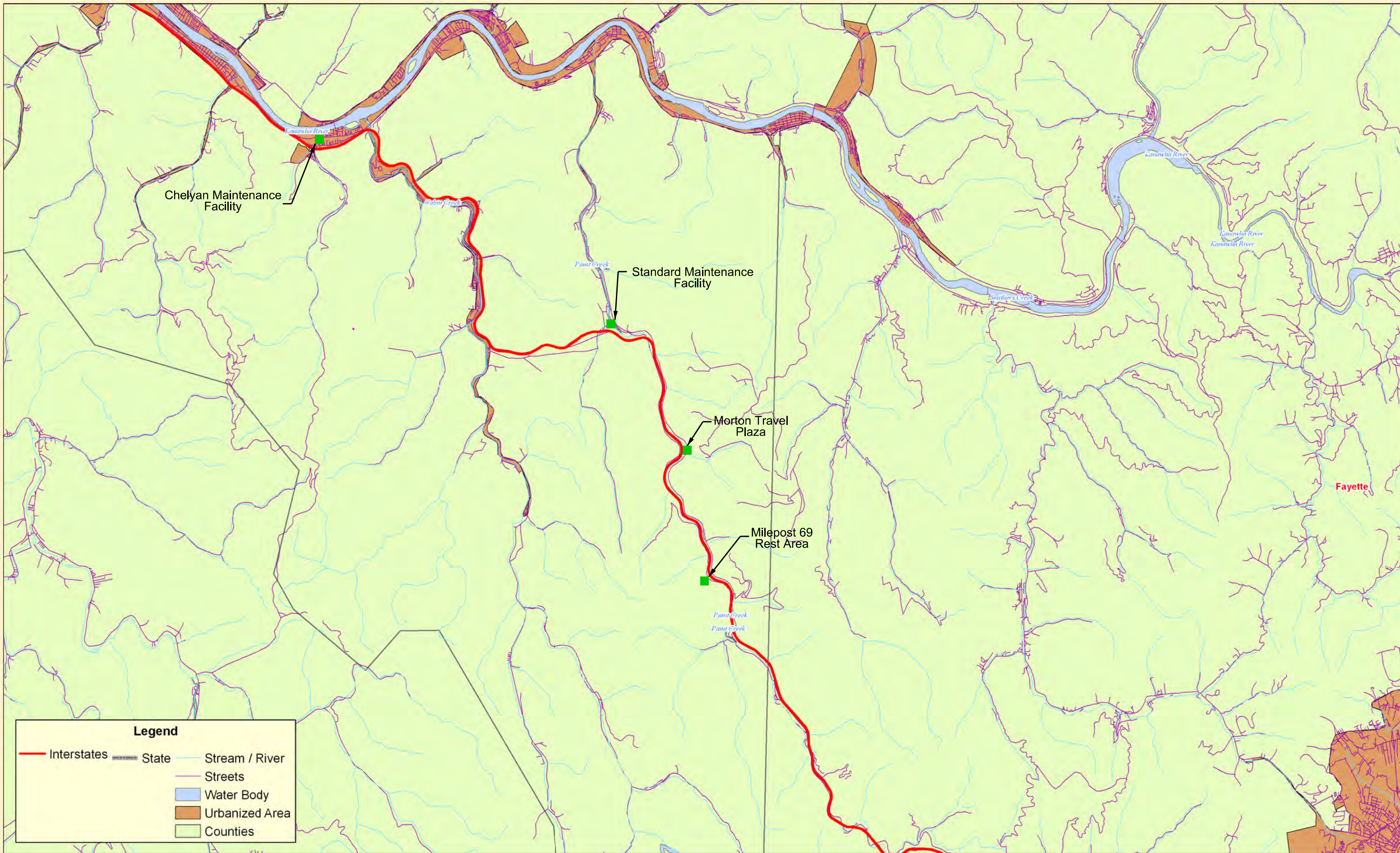
Charleston, West Virginia

Urbanized Area



Albers Projection
 Central Meridian: -96
 1st Std Parallel: 20
 2nd Std Parallel: 60
 Latitude of Origin: 40





Chelyan Maintenance Facility

Standard Maintenance Facility

Morton Travel Plaza

Milepost 69 Rest Area

Fayette

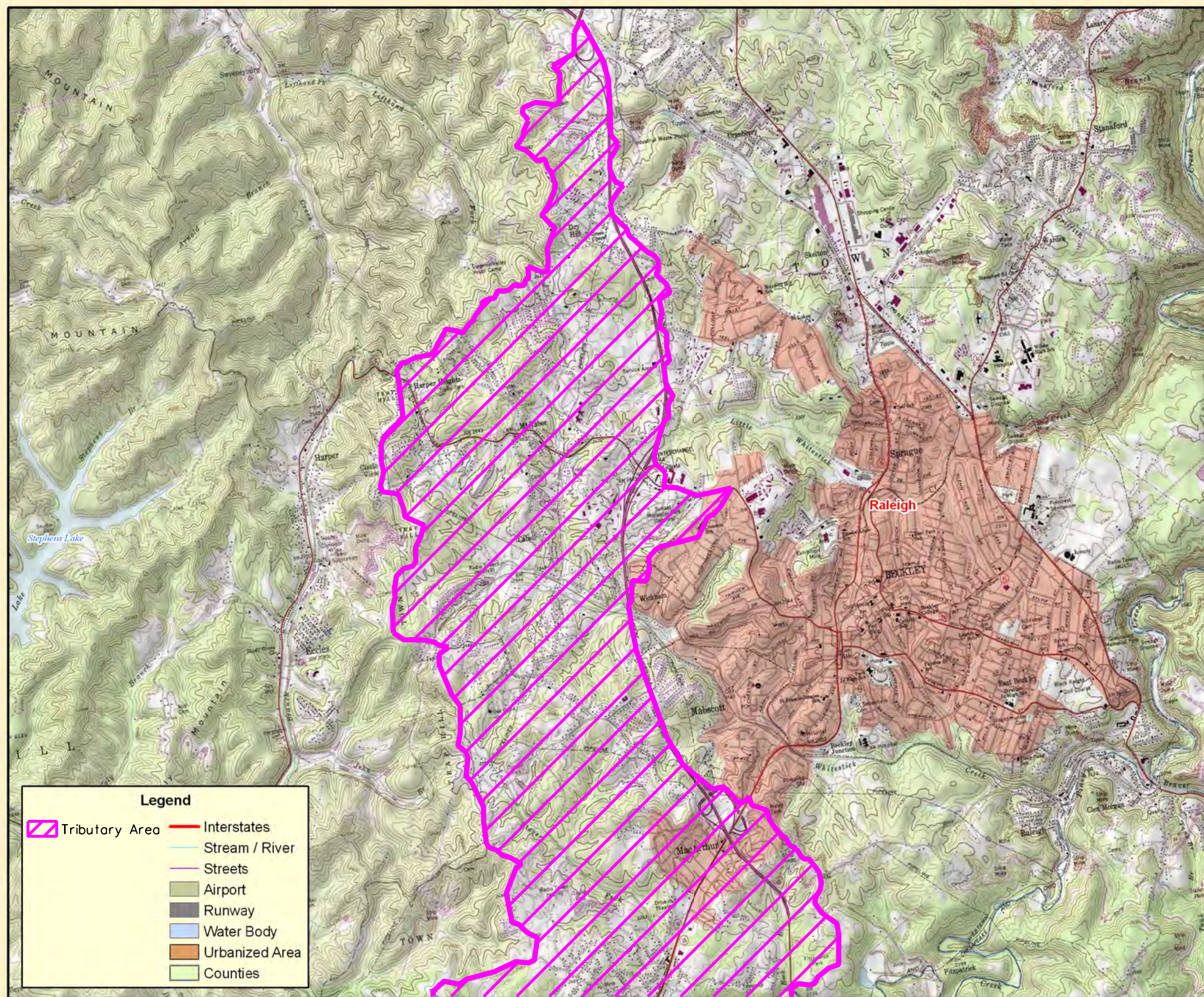
Legend

- Interstates
- State
- Stream / River
- Streets
- Water Body
- Urbanized Area
- Counties

Charleston, West Virginia
Urbanized Area

HNTB

Albers Projection
Datum: NAD83
Units: Feet
Scale: 1" = 1000'

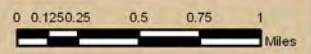


Legend	
	Tributary Area
	Interstates
	Stream / River
	Streets
	Airport
	Runway
	Water Body
	Urbanized Area
	Counties

Local Name of receiving stream (DEP Stream Name) *If different	Integrated Report Category	Stream Code	303d List or TMDL	Impaired Parameters	303d List Cycle/TMDL Approval Date
Campbells Creek Upper Kanawha River Watershed	4a	WVK-49	TMDL	CNA-Biological Fecal Coliform	2005 2005
Kanawha River (Upper) Upper Kanawha River Watershed	5	WVK-up	303d	PCBs	2014
Cabin Creek Upper Kanawha River Watershed	4a	WVK-61	TMDL	Aluminum (d) CNA-Biological Fecal Coliform Iron pH	2005 2005 2005 2005 2005
Paint Creek Upper Kanawha River Watershed	4a	WVK-65	303d	Iron (trout)	2014
Dry Branch Upper Kanawha River Watershed	4a	WVK-49 A	TMDL	Aluminum (d) CNA-Biological Fecal Coliform	2005 2005 2005
Lens Creek Upper Kanawha River Watershed	4a	WVK-53	TMDL	CNA-Biological Fecal Coliform Iron	2005 2005 2005
Witcher Creek Upper Kanawha River Watershed	4a	WVKA-57	TMDL	Aluminum (d) CNA-Biological Fecal Coliform Iron pH	2005 2005 2005 2005 2005
Dry Branch Upper Kanawha River Watershed	4a	WVK-57 A	TMDL	Aluminum (d) CNA-Biological Fecal Coliform Iron	2005 2005 2005 2005
Fields Creek Upper Kanawha River Watershed	4a	WVK-58	TMDL	Aluminum (d) CNA-Biological Fecal Coliform	2005 2005 2005
Slaughter Creek Upper Kanawha River Watershed	4a	WVK-60	TMDL	Aluminum (d)	2005
Little Creek Upper Kanawha River Watershed	4a	WVK06 0-A	TMDL	Aluminum (d) CNA-Biological pH	2005 2005 2005
Paint Creek Upper Kanawha River Watershed	4a	WVK-61 E	TMDL	Iron	2005
Greens Branch Upper Kanawha River Watershed	4a	WVK-61 G	TMDL	Fecal Coliform pH	2005 2005
Piney Creek Lower New Watershed	4a	WVKN-26	TMDL	Fecal Coliform Iron (trout) AQ	2008 2008
Cranberry Creek Lower New Watershed	4a	WVKN-26-E	TMDL	CNA-Biological Fecal Coliform Iron (trout) AQ, III	2008 2008 2008
Little Whitestick Creek Lower New Watershed	4a	WVKN-26-E-1	TMDL	Fecal Coliform	2008
Little Beaver Creek Lower New Watershed	4a	WVKN-26-F-2	TMDL	CNA-Biological Fecal Coliform	2008 2008
Whitestick Creek Lower New Watershed	4a	WVKN-26-G	TMDL	CNA-Biological Fecal Coliform	2008 2008

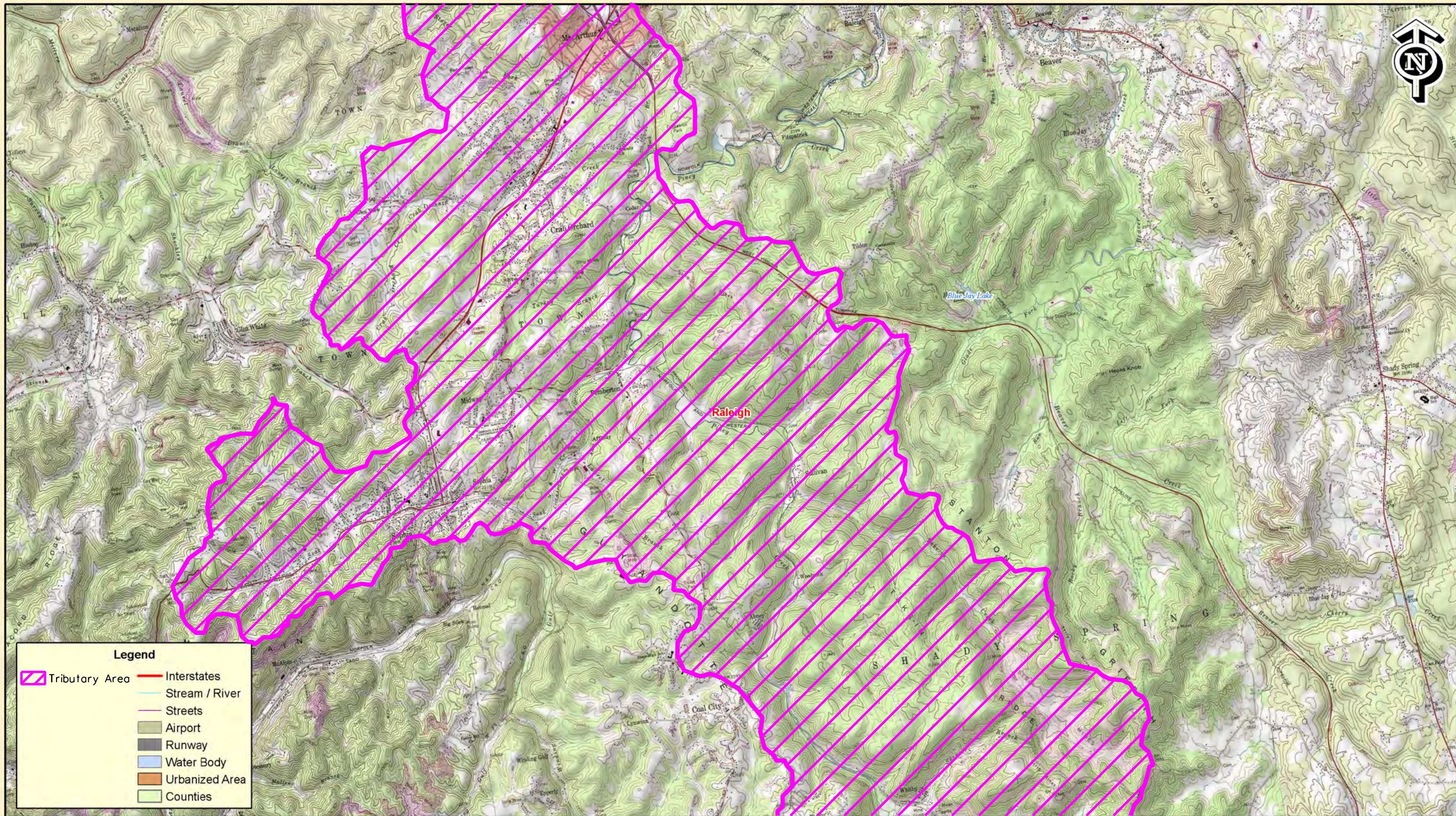
Beckley, West Virginia

Tributary Area 1 - 3



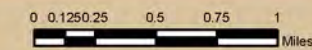
Albers Projection
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1st Std Parallel: 20
2nd Std Parallel: 60
Latitude of Origin: 40





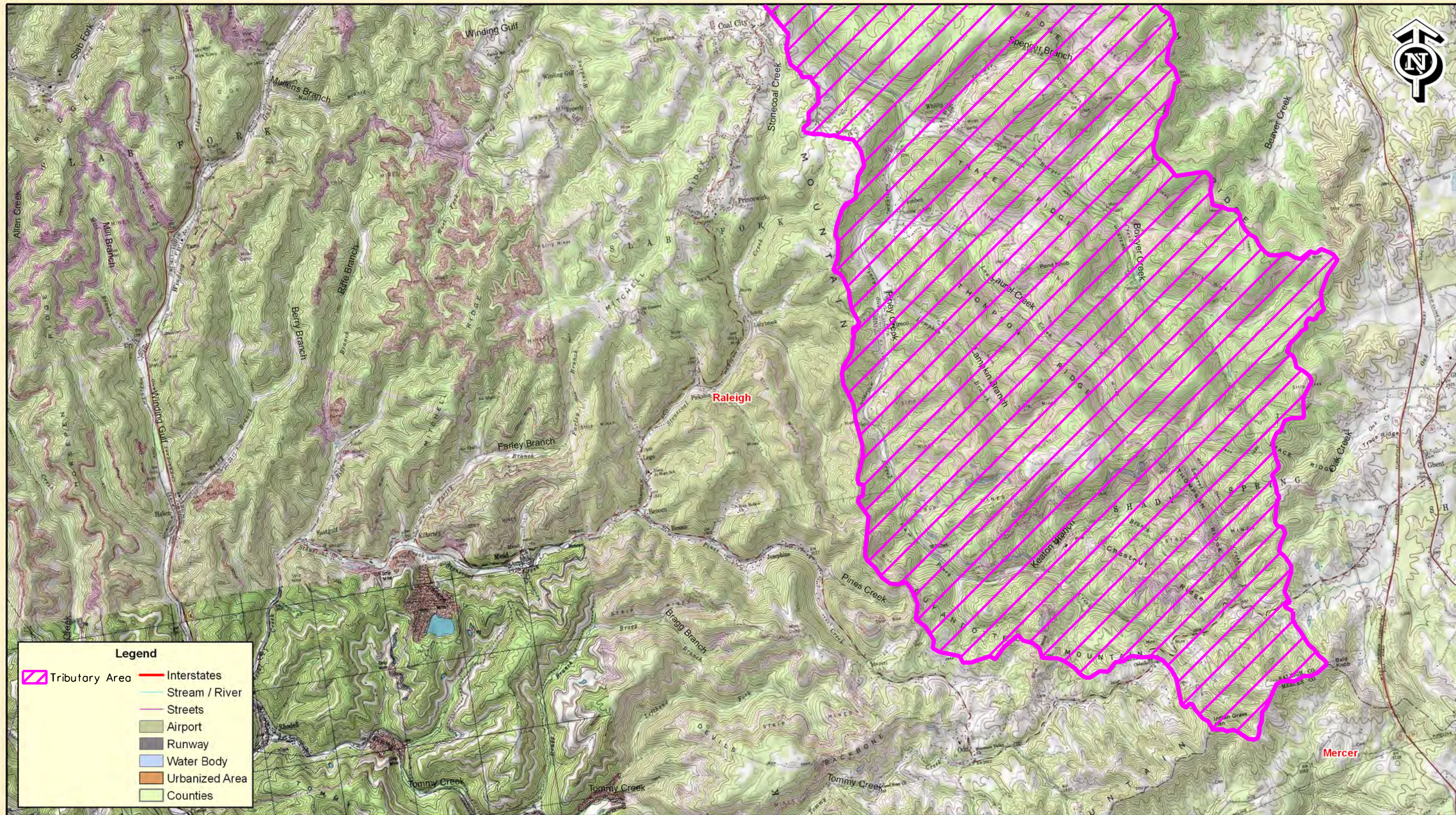
Beckley, West Virginia

Tributary Area 2 - 3



Albers Projection
 Central Meridian: -96
 1st Std Parallel: 20
 2nd Std Parallel: 60
 Latitude of Origin: 40





Legend

- Tributary Area
- Interstates
- Stream / River
- Streets
- Airport
- Runway
- Water Body
- Urbanized Area
- Counties

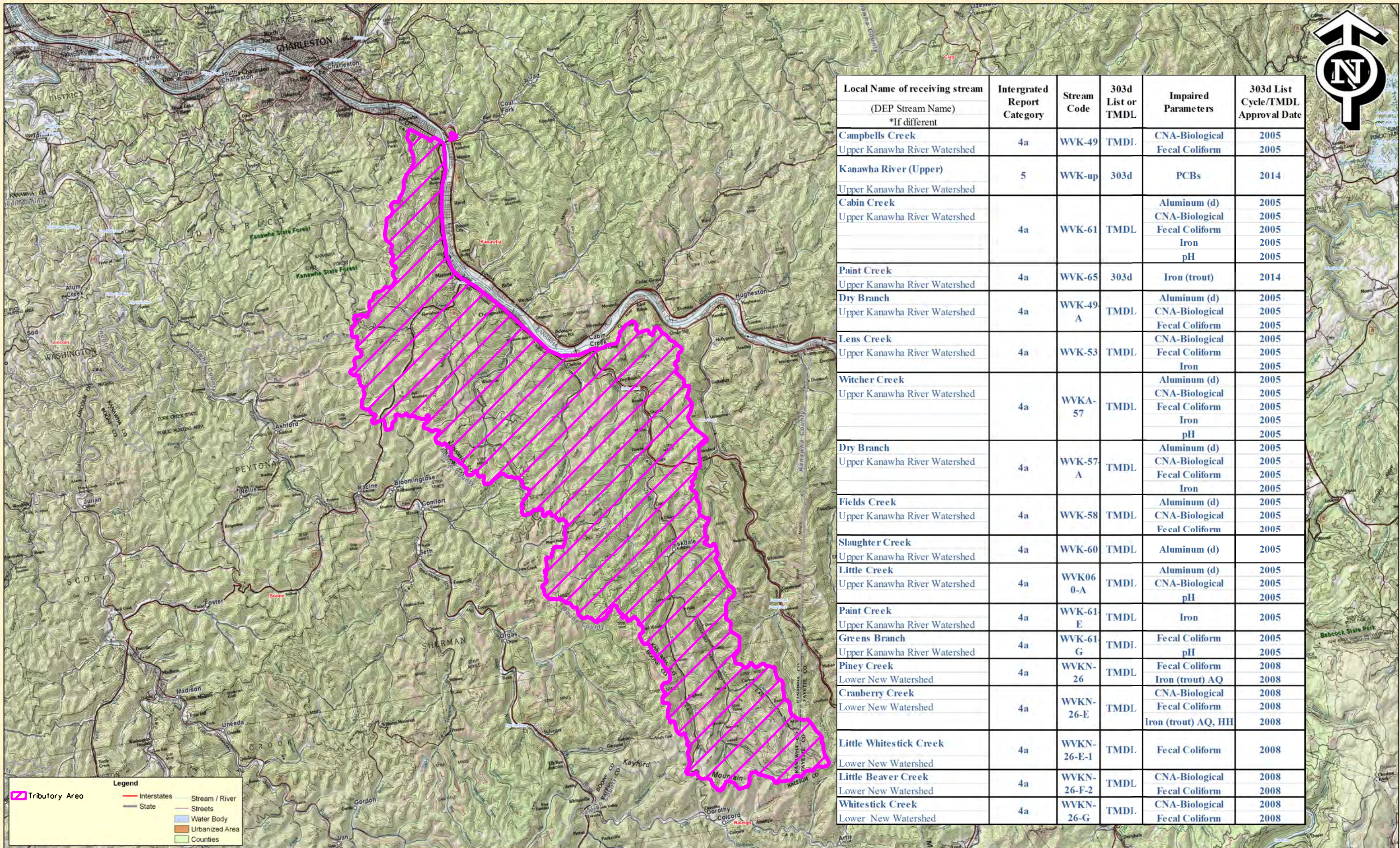
Beckley, West Virginia

Tributary Area 3 - 3



0 0.125 0.25 0.5 0.75 1
Miles

Albers Projection
Central Meridian: -96
1st Std Parallel: 20
2nd Std Parallel: 60
Latitude of Origin: 40



Local Name of receiving stream (DEP Stream Name) *If different	Intergrated Report Category	Stream Code	303d List or TMDL	Impaired Parameters	303d List Cycle/TMDL Approval Date
Campbells Creek Upper Kanawha River Watershed	4a	WVK-49	TMDL	CNA-Biological Fecal Coliform	2005 2005
Kanawha River (Upper) Upper Kanawha River Watershed	5	WVK-up	303d	PCBs	2014
Cabin Creek Upper Kanawha River Watershed	4a	WVK-61	TMDL	Aluminum (d) CNA-Biological Fecal Coliform Iron pH	2005 2005 2005 2005 2005
Paint Creek Upper Kanawha River Watershed	4a	WVK-65	303d	Iron (trout)	2014
Dry Branch Upper Kanawha River Watershed	4a	WVK-49-A	TMDL	Aluminum (d) CNA-Biological Fecal Coliform	2005 2005 2005
Lens Creek Upper Kanawha River Watershed	4a	WVK-53	TMDL	CNA-Biological Fecal Coliform Iron	2005 2005 2005
Witcher Creek Upper Kanawha River Watershed	4a	WVKA-57	TMDL	Aluminum (d) CNA-Biological Fecal Coliform Iron pH	2005 2005 2005 2005 2005
Dry Branch Upper Kanawha River Watershed	4a	WVK-57-A	TMDL	Aluminum (d) CNA-Biological Fecal Coliform Iron	2005 2005 2005 2005
Fields Creek Upper Kanawha River Watershed	4a	WVK-58	TMDL	Aluminum (d) CNA-Biological Fecal Coliform	2005 2005 2005
Slaughter Creek Upper Kanawha River Watershed	4a	WVK-60	TMDL	Aluminum (d)	2005
Little Creek Upper Kanawha River Watershed	4a	WVK06-0-A	TMDL	Aluminum (d) CNA-Biological pH	2005 2005 2005
Paint Creek Upper Kanawha River Watershed	4a	WVK-61-E	TMDL	Iron	2005
Greens Branch Upper Kanawha River Watershed	4a	WVK-61-G	TMDL	Fecal Coliform pH	2005 2005
Piney Creek Lower New Watershed	4a	WVKN-26	TMDL	Fecal Coliform Iron (trout) AQ	2008 2008
Cranberry Creek Lower New Watershed	4a	WVKN-26-E	TMDL	CNA-Biological Fecal Coliform Iron (trout) AQ, HH	2008 2008 2008
Little Whitestick Creek Lower New Watershed	4a	WVKN-26-E-1	TMDL	Fecal Coliform	2008
Little Beaver Creek Lower New Watershed	4a	WVKN-26-F-2	TMDL	CNA-Biological Fecal Coliform	2008 2008
Whitestick Creek Lower New Watershed	4a	WVKN-26-G	TMDL	CNA-Biological Fecal Coliform	2008 2008

Charleston, West Virginia
Tributary Area

