

Plum Springs Warren County Joint Stormwater  
Sewer Agency  
**SWQMP**  
**Phase II Stormwater MS4**  
For: Kentucky Division of Water

**KDOW contact: Abigail Rains**  
ENERGY AND ENVIRONMENT CABINET  
DEPARTMENT FOR ENVIRONMENTAL  
PROTECTION  
Division of Water  
300 Sower Boulevard, 3<sup>rd</sup> Floor  
Frankfort, KY 40601  
Phone: (502) 782-7044

**NOTES:** In order to comply with KPDES sMS4 permits, annual reports will be submitted to the Kentucky Division of Water KDOW.

SWQMP Initial Submittal Date: **November 1, 2018**  
**(Initial Annual Report to be due April 15, 2020)**

PERMIT YEARS (Check one)
<input type="checkbox"/> 2019
<input type="checkbox"/> 2020
<input type="checkbox"/> 2021
<input type="checkbox"/> 2022
<input type="checkbox"/> 2023

PART A: GENERAL INFORMATION – MS4 OPERATOR			
1. SWQMP for:	<b>Warren County Fiscal Court/Plum Springs (AGENCY)</b> • Plum Springs Warren County Joint Stormwater Sewer Agency (MS4 Operator — i.e., name of permit holder)		
2. Permit Number:	K Y G 2 0 0 0	AI #	64306
4. Population	59000		
5. Mailing and Address:	1141 State Street, Suite 202 Bowling Green, KY 42101		
<input type="checkbox"/> City <input type="checkbox"/> County <input checked="" type="checkbox"/> Other	<b>NAME:</b> Plum Springs Warren County Joint Stormwater Sewer Agency (PSWCJSWSA)	Zip: 42101	County: Warren
PART B: GENERAL INFORMATION – CONTACT PERSON			
6. Contact Person Name (please print):	Josh Moore		
7. Contact Person Title:	Public Works Director, Warren County Fiscal Court		
8. Phone Number:	270-843-5360		
9. Facsimile Number (if applicable):			
10. E-mail Address (if applicable):	WarrenC.OSM@ky.gov		

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# **1. Plum Springs Warren County Joint Stormwater Sewer Agency (PSWCJSWSA) 2019 SWQMP SUMMARY**

## **1.1. PSWCJSWSA Authorized Discharges**

PSWCJSWSA is authorized to discharge stormwater runoff from our MS4, the Urbanized Area of Warren County, exclusive of the City of Bowling Green (See Attachment A) to waters of the Commonwealth in accordance with narrative effluent limitations, monitoring requirements, and other conditions set forth in this Permit.

### **1.1.1. PSWCJSWSA Exclusions**

The following discharges are not included with this SWQMP:

1. Discharges of non-stormwater into our MS4, except where such discharges have coverage under a separate Kentucky Pollution Discharge Elimination System (KPDES) permit or where those discharges have been determined not to represent significant sources of pollution, consistent with state and federal regulations;
2. Discharges of materials resulting from a spill, except emergency discharges required to prevent imminent threat to human health or to prevent severe property damage, provided reasonable and prudent measures have been taken to minimize the impact to water quality of the discharges; and
3. Discharges of any pollutant from our MS4 into any water for which a Total Maximum Daily Load (TMDL) for a pollutant of concern has been established prior to the issuance of this permit, unless a Stormwater Quality Management Plan (SWQMP) has been developed and is being properly implemented.

#### **1.1.1.1. Cross-Connection between Sanitary Sewers and Storm Sewer/MS4 Prohibited by PSWCJSWSA**

This SWQMP will not be construed to authorize the discharge of sanitary wastewater through cross connections or to authorize other illicit discharges through our MS4, except as provided in 401 KAR 5:065.

### **1.1.2. Non-Stormwater Discharges**

Our MS4 is authorized to discharge the following non-stormwater sources provided that the division has not determined these sources to be substantial contributors of pollutants to the MS4:

1. Water line flushing
2. Landscape irrigation
3. Diverted stream flows
4. Rising ground waters
5. Uncontaminated ground water infiltration
6. Uncontaminated pumped ground water
7. Discharged from potable sources
8. Air conditioner condensate
9. Irrigation water
10. Springs
11. Water from crawl space pumps
12. Footing drains
13. Lawn watering
14. Individual car washing
15. Natural flows from riparian habitat and wetlands
16. Dechlorinated swimming pool discharges
17. Street wash water

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18. Discharges or flows from firefighting activities

**1.2. Co-Permittees**

The Plum Springs Warren County Joint Stormwater Sewer Agency (PSWCJSWSA) is authorized by Ordinance to address all KYG20 permit requirements for the City of Plum Spring and Warren County Fiscal Court; therefore, all implementation and reporting requirements will originate from PSWCJSWSA. PSWCJSWSA is a single entity responsible for fulfilling all permit requirements for both The City of Plum Springs and Warren County Fiscal Court.

**1.3. PSWCJSWSA Obtaining Authorizations**

NOI has been submitted for our MS4 See Appendix A.

# **SECTION 2**

## **SWQMP Details for PSWCJSWSA Program of Work**

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## **2. PSWCJSWSA SWQMP Requirements**

PSWCJSWSA's controls, Best Management Practices (BMPs) are intended to reduce the discharge of pollutants from our MS4 to the Maximum Extent Practicable (MEP) consistent with 40 CFR 122.34. The SWQMP is written to provide controls that will consist of a combination of BMPs, control techniques and systems, design and engineering methods, public participation and education, and other appropriate provisions, designed to limit the discharge of pollutants from the our MS4 conveyances which are environmentally beneficial and technically and economically feasible. The discharges to waters of the Commonwealth will minimize floating solids, visible foam or a visible sheen on the surface of the receiving waters.

### **2.1. PSWCJSWSA Legal Authority**

PSWCJSWSA has legal authority to control discharges to and from those portions of our MS4 over which PSWCJSWSA has jurisdiction. See references to ordinances which establish legal authority to accomplish items 1 through 5 below:

1. Control the contribution of pollutants to the small MS4 by stormwater discharges associated with construction activity (WC06-17 Stormwater Management (EPSC) Ordinance) and post-construction activity (WC 11-31 Post Construction Ordinance) for new development and redevelopment projects;
2. Prohibit illicit non-stormwater discharges to the small MS4 and implement enforcement procedures and actions (WC 06-21A Illicit Discharge);
3. Prohibit the discharge of spills and the dumping or disposal of materials other than stormwater (e.g. industrial and commercial wastes, trash, used motor vehicle fluids, leaf litter, grass clippings, animal wastes, etc.) (WC 06-21A Illicit Discharge);;
4. Enforce compliance with ordinances, permits, contracts, or orders relating to discharge to the small MS4s (WC 07-41 Code Enforcement Ordinance); and
5. Carry out all inspection, surveillance, and monitoring procedures necessary to determine compliance with permit conditions, including the prohibition on illicit discharges to the municipal separate storm sewer (WC 07-17 Agency Creation)

### **2.2. PSWCJSWSA Stormwater Quality Management Program**

The stormwater quality management program is an integral part of Warren County and Plum Spring's overall watershed management program, in accordance with 401 KAR 5:060 and 40 CFR 122.34 (a). Implementation of the stormwater quality management program to effectively reduce pollutants (including floatables) in discharges from municipal separate storm sewers must include program elements that address public education and outreach, public participation and involvement, illicit discharge detection and elimination, construction site runoff control, post-construction stormwater management for new development and redevelopment, and good housekeeping and pollution prevention in municipal operations. The program will be formalized in the SWQMP. This written plan details the procedures the permittee will use to implement the required six minimum control measures, and is a dynamic document that should be modified to meet the needs of the permittee using the timeframes described in Section 2.3 of this permit.

#### **2.2.1. PSWCJSWSA Public Education and Outreach**

1. PSWCJSWSA will implement and maintain a public education program to:

- a. distribute educational materials to the community or conduct equivalent public outreach activities in the community that focus on impacts from stormwater discharges to waterbodies and
  - b. establish steps that the public can take to reduce pollutants in stormwater runoff.
  - c. achieve measurable improvements in the target audiences understanding of stormwater pollution and the actions the public can take to prevent pollution.
  - d. establish the metric to determine compliance.
  - e. utilize the Inter-Local Agreements with Kentucky Transportation Cabinet (KYTC) to take advantage of the public outreach program developed by KYTC.
2. PSWCJSWSA will prioritize public education and outreach efforts to focus on pollutants impairing or threatening the local waterways. These pollutants may include sediment, nutrients, fecal coliform, and various other types of non-point source pollution.
3. PSWCJSWSA will utilize as guidance the Stormwater Education Toolkit developed by the Kentucky Transportation Cabinet with support from the Division of Water, EPA's Nonpoint Source Toolbox, found at <http://www.epa.gov/nps/toolbox/>. Documents such as Lawn & Garden care and Household Chemicals and Waste may be utilized at community events.
4. PSWCJSWSA will demonstrate that the education and outreach efforts are targeted to the appropriate audiences and balanced between policy-makers, local citizens, and other stakeholders by offering training to our elected officials, participating in various community events, and working with local schools and organizations. We will utilize partnerships with other MS4s and stakeholder organizations to help design and administer our outreach efforts.
5. PSWCJSWSA will measure the understanding and adoption of the targeted behaviors among the targeted audiences by conducting pre- and post-seminar questionnaires. The results of these questionnaires will allow us to adjust our methods as needed. The resulting measurements will be used to direct education and outreach resources more effectively, as well as to evaluate changes in adoption of water-quality benefitting behaviors.
6. PSWCJSWSA will measure the targeted audience understanding of their impacts on water quality and the adoption of the behavior changes resulting from the permittee's public education and outreach efforts. The resulting measurements will be used to direct education and outreach resources more effectively.
7. PSWCJSWSA will track activities relative to this program element as necessary to document compliance with permit requirements and prepare the annual system-wide report pursuant to Part III.A. of the permit.
8. The permittee should refer to the DOW's Phase II SWQMP Preparation Guidance for specific BMPs that may be used to comply with this Minimum Control Measure.
9. PSWCJSWSA Public Education and Outreach:
  - a. Realtor Association Events such as Monthly Meetings, Hope for Homeless, Glow Run
  - b. Crime Stopper's Breakfast & Neighborhood Signage
  - c. Spring & Fall MS4CC Meetings. Broadcast on cable local access channel
  - d. Over 50 Citizens Academy
  - e. In-Class Instruction at Elementary and Middle Schools and Home School Programs

- f. Arbor Day Celebrations. City of Bowling Green, Warren County Parks & Rec, Warren County Conservation District.
- g. SKYCTC Earth Day
- h. BGGOVtoGO Neighborhood Programs
- i. Warren County Public Library Summer Celebrations Events
- j. Sponsorship of Local Events and Programs such as Hospice Race on the River, South Warren FFA, Bowling Green Christian Academy, 4H Environmental Club
- k. WarrenCountyKY.gov and WarrenCountyKY.gov/Stormwater
- l. Social Media
- m. Local Print, Television News, and Radio Media

10. Measurable Goals:

Measurable Goals will be reviewed annually to gauge permit compliance and program effectiveness. Measurable Goals will be presented in a report format that reflects information in the Kentucky Division of Water Phase II SWQMP Preparation Guidance document. The SWQMP Measurable Goals Report can be found in Appendix B.

**2.2.2. Public Involvement/Participation**

1. The permittee will implement a public involvement/participation program that complies with applicable Kentucky and local public notice requirements.
2. Activities may include representation on local stormwater management workgroups or advisory councils, public notices, and public hearings, facilitating education volunteers, storm drain marking, riparian plating, stream clean-up events, or an effective equivalent. The permittee will provide public notice of program participation opportunities by methods designed to reach the intended audience. Newly-designated small MS4s will implement this advertising method within 180 days of the notice of permit coverage.
3. The permittee will track activities relative to this program element as necessary to document compliance with permit requirements and prepare the annual system-wide report pursuant to Part III.A. of the permit.
4. PSWCJSWSA will refer to the DOW's Phase II SWQMP Preparation Guidance for specific BMPs that may be used to comply with this Minimum Control Measure.
5. PSWCJSWSA Public Involvement and Participation:
  - a. Streamside Field Day trips with Elementary and Middle School Students
  - b. Litter Clean-up Events with Local Organizations and Neighborhood Groups
  - c. Warren County Fiscal Court Meetings
  - d. Builders Association Events such as Monthly Meetings, Tabletop, Parade of Homes, Home Expo
  - e. Upper Green River Watershed Watch Sponsorship and Participation
  - f. Household Hazardous Waste Day. Held at Least Once Annually.
  - g. Warren County Public Works – Division of Stormwater Management Planning Meetings. Goal is to meet 6 Times/Year



6. Measurable Goals:

Measurable Goals will be reviewed annually to gauge permit compliance and program effectiveness. Measurable Goals will be presented in a report format that reflects information in the Kentucky Division of Water Phase II SWQMP Preparation Guidance document. The SWQMP Measurable Goals Report can be found in Appendix B.

**2.2.3. Illicit Discharge Detection and Elimination**

1. PSWCJSWSA continues to implement and enforce our ordinance [WC 06-21A Illicit Discharge](#).
2. PSWCJSWSA continues to implement a storm-sewer system map showing the location of all known major outfalls. The comprehensive storm sewer system map is being expanded to include catch basins, pipes, ditches, flood control facilities (retention/detention ponds), post-construction water quality BMPs, and private post-construction water quality BMPs which have been approved by the MS4. Mapping is completed using Geographical Information Systems (GIS) software, PSWCJSWSA will provide to the Division of Water the small MS4 boundary and the mapped infrastructure in ESRI shape file formats (.shp, .shx, and .dbf files). PSWCJSWSA will complete required mapping to the MEP at the end of the current permit term.
3. PSWCJSWSA addresses illicit discharges via our ordinance [WC 06-21A Illicit Discharge](#) and includes illegal dumping via ordinance [02-44WC-UnlawfulDisposal](#). The Illicit Discharge Detection and Elimination Plan includes:
  - a. PSWCJSWSA continues locating priority areas likely to have illicit discharges as part of field assessments described in item 3.b.
  - b. PSWCJSWSA staff is responsible for visual inspection of discharges for indicators of pollutants. Indicators will include odor, oil sheen, discoloration, and high degree of siltation or aquatic plant growth. The illicit discharge detection and elimination plan may require follow-up field water-quality sampling and/or analysis or laboratory analyses to determine the pollutant source and most effective plan of action.
  - c. A mechanism and protocols are in place that provide for public reporting of spills and other discharges. PSWCJSWSA continues to maintain and advertise on our website and Facebook page the hotline, 270 392 5292 for direct contact with our office for ALL reports of illegal dumping/discharges. In addition our GIS Specialist works closely with the [Emergency Management office of Warren County](#). Our field inspectors also work closely with KDOW's field office in reviewing and investigating all illegal discharge/dumping contacts we receive via our [website contact page](#) OR direct hotline.
  - d. PSWCJSWSA continues to utilize the Administrative Assistant for coordinating a response to all contacts from our website contact page to investigate any complaints, reports, or monitoring information that indicates a potential illicit discharge, spill, or illegal dumping. The permittee will immediately investigate problems and violations determined to be emergencies or otherwise judged urgent or severe. PSWCJSWSA continues to promptly refer the incidents to the local KDOW field office, 270-746-7475 and if necessary Department for Environmental Protection's Environmental Emergency 24-hour hotline at (502) 564-2380 or (800) 928-2380.

- e. PSWCJSWSA continues to strive to respond immediately to any contact concerning an illicit discharge/dumping. Assisting PSWCJSWSA in making those contacts are the agency/contact persons included with 3.c and 3.d.
  - f. PSWCJSWSA continues to trace the source of an illicit discharge; including visual inspections, and when necessary, collecting and analyzing water samples. PSWCJSWSA continues to coordinate with the local KDOW office to insure the proper and adequate sampling and testing protocols are followed for each incident. Modifications of previously conducted collection of samples are modified as appropriate to correctly identify pollutants. Additionally PSWCJSWSA would utilize the [Local Emergency Planning Committee](#) as a resource for the source and identification of any unidentified illicit discharge reported.
  - g. PSWCJSWSA utilizes reporting software, Mobile311 to track progress for removing the source of the discharge; including notification of appropriate authorities, notification of property owners; follow-up inspections; and enforcement if the discharge is not eliminated.
  - h. PSWCJSWSA utilizes reporting software, Mobile311 for Illicit Discharge Program evaluation and assessment, including tracking the number and type of spills or illicit discharges identified, inspections made; and any feedback received from public education efforts.
4. PSWCJSWSA utilizes the [Emergency Management Office](#) as well as our annual report to be posted online with our [SWQMP](#) (to be updated after submitted) for the public reporting of spills and other discharges into the small MS4.
  5. PSWCJSWSA staff is responsible for training for municipal field staff on the identification and reporting of illicit discharges into the MS4 as reported through his field inspection and data collection.
  6. If, in the course of illicit discharge detection, it is demonstrated that a sanitary sewer line failure or defect is a source to the MS4, PSWCJSWSA will inform the responsible entity and the Division of Water's Regional Office. If PSWCJSWSA is the responsible entity, PSWCJSWSA will proceed to remediate the discharge by following a corrective action plan or a Sanitary Sewer Overflow Plan on a schedule approved by the Division of Water.
  7. PSWCJSWSA will track activities relative to this program element as necessary to document compliance with permit requirements and prepare the annual system-wide report pursuant to KYG20 Part III.A.
  8. PSWCJSWSA will refer to the DOW's Phase II SWQMP Preparation Guidance for specific BMPs that may be used to comply with this Minimum Control Measure as applicable.
  9. PSWCJSWSA Illicit Discharge Detection and Elimination:
    - a. PSWCJSWSA has designed a program to publicize and facilitate public reporting of illicit discharges using the stormwater hotline and reporting software, Mobile 311, to evaluate and assess, track, inspect, and add any feedback.

- b. PSWCJSWSA has instituted a voluntary residential stormwater diversion program, where the public can request rain barrels.
- c. PSWCJSWSA coordinates with another governmental agency during the winter season to locate possible new major outfalls and visually inspect the existing major outfalls.
- d. PSWCJSWSA has initiated a Household Hazardous Waste Day where commonly dumped wastes can be disposed of.

10. Measurable Goals:

Measurable Goals will be reviewed annually to gauge permit compliance and program effectiveness. Measurable Goals will be presented in a report format that reflects information in the Kentucky Division of Water Phase II SWQMP Preparation Guidance document. The SWQMP Measurable Goals Report can be found in Appendix B.

**2.2.4. Construction Site Stormwater Runoff Control**

- 1. PSWCJSWSA continues to implement and enforce [WC 06-17 Stormwater Management \(EPSC\)](#) which reduces pollutants in any stormwater runoff to PSWCJSWSA's MS4 from construction activities that disturb one acre or more, and active construction sites less than one acre in size that are part of a larger common plan of development or sale, located within PSWCJSWSA's MS4.
- 2. PSWCJSWSA will track activities relative to this program element as necessary to document compliance with permit requirements and prepare the annual system-wide report pursuant to KYG20 Part III.A.
- 3. PSWCJSWSA will refer to the DOW's Phase II SWQMP Preparation Guidance for specific BMPs that may be used to comply with this Minimum Control Measure
- 4. PSWCJSWSA Construction Site Stormwater Runoff Control:
  - a. PSWCJSWSA will continue to implement a permitting process with plan review to affirm compliance with local ordinances, inspection, and enforcement capability. All potential construction projects will be reviewed by PSWCJSWSA upon application submittal to determine the extent of proposed land disturbance and permit applicability.
  - b. PSWCJSWSA will continue to implement an enforcement strategy that includes escalating enforcement remedies to respond to issues of non-compliance. An escalating enforcement process, up to and including citation will be utilized for sites appearing to not meet the minimum permit requirements.
  - c. PSWCJSWSA will continue to implement a procedure to inventory projects and prioritize sites for inspection. The inventory will continue to track the results of inspections, enforcement procedures taken, if any. PSWCJSWSA site inspection reports will be tracked by utilizing PSWCJSWSA computer software and reporting tools.
  - d. PSWCJSWSA will continue to conduct training for MS4 staff in the fundamentals of erosion prevention and sediment control and in how to review erosion and sediment control plans or Stormwater Pollution Prevention Plans. PSWCJSWSA MS4 staff training will be conducted

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and documented annually at a minimum and as needed to update staff of changing regulations, procedures or agency information.

- e. PSWCJSWSA will continue to conduct pre-construction meetings with contractor/developers to explain the expectations of the erosion prevention and sediment control program. PSWCJSWSA will continue to work with all partner agencies, utilities and departments to conduct pre-construction meetings.
- f. PSWCJSWSA will continue to utilize an inspection schedule based on the amount of disturbed area. PSWCJSWSA staff will continue to conduct inspections of active construction sites that disturb one acre or more and active construction sites less than one acre in size that are part of a larger common plan of development or sale. Site inspection frequency will be maintained to the maximum extent practicable (MEP).
- g. PSWCJSWSA will continue to provide contractor/developer training about the regulatory mechanism and the requirements it contains. PSWCJSWSA will continue to partner with the City of Bowling Green Environmental Compliance Division to assist with the EPSC Certified Contractor training course. PSWCJSWSA will continue to provide onsite training and updated BMP information to all contractors and developers.
- h. As recommended by the Kentucky Division of Water, the EPA's National Menu of Stormwater Best Management Practices found here: <https://www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater#edu> and the Construction Industry Compliance Assistance website found here: [www.cicacenter.org/](http://www.cicacenter.org/) may be utilized as resources for MCM4 BMP information.

#### 5. Measurable Goals

Measurable Goals will be reviewed annually to gauge permit compliance and program effectiveness. Measurable Goals will be presented in a report format that reflects information in the Kentucky Division of Water Phase II SWQMP Preparation Guidance document. The SWQMP Measurable Goals Report can be found in Appendix B.

#### **2.2.5. Post-Construction Stormwater Management in New Development and Redevelopment**

1. PSWCJSWSA continues to implement and enforce WC11-31 Post Construction Ordinance to comply with the post-construction requirement outlined in this section KYG20.
2. PSWCJSWSA will demonstrate compliance with the requirements for post-construction controls by summarizing in the annual report.
3. PSWCJSWSA will refer to the DOW's Phase II SWQMP Preparation Guidance for specific BMPs that may be used to comply with this Minimum Control Measure.
4. PSWCJSWSA Post-Construction Stormwater Management in New Development and Redevelopment plans to be implanted as follows:

- a. PSWCJSWSA will continue to integrate planning on a regional and watershed scale to control post-construction stormwater impacts. As recommended by the Kentucky Division of Water (KDOW) information on integrated planning can be found here: <https://www.epa.gov/npdes/stormwater-planning>.
- b. PSWCJSWSA will, as recommended by the US EPA and KDOW, continue to encourage Low Impact Development and Green Infrastructure. As recommend by KDOW, reference documents can be found at <https://www.epa.gov/nps/urban-runoff-low-impact-development>.
- c. PSWCJSWSA will review Post-Construction management measures identified in construction plans for construction sites to ensure that the measures meet all of the requirements of the MS4.
- d. PSWCJSWSA will continue to educate the local community (local officials, developers, contractors, landowners) about post construction management measures.
- e. Non-Structural BMPs
  - i. Planning Procedures - PSWCJSWSA will continue to partner with other local departments to attempt to create master plans, comprehensive plans, and zoning ordinances that promote improved water quality by guiding the growth of a community away from sensitive areas to areas that can support it without compromising water quality.
  - ii. Site-Based BMPs - PSWCJSWSA will continue to recommend BMPs such as buffer strip and riparian zone preservation, minimization of disturbance and imperviousness, and maximization of open space.
- f. Structural BMPs
  - i. Infiltration BMPs - PSWCJSWSA will continue to provide guidance when necessary regarding Infiltration BMPs such as basins/trenches, dry wells, and porous pavement.
  - ii. Vegetative BMPs - PSWCJSWSA will continue to provide guidance when necessary regarding Vegetative BMPs such as grassy swales, filter strips, artificial wetlands, and rain gardens.
  - iii. Stormwater Retention/Detention BMPs - PSWCJSWSA will continue to provide guidance when necessary regarding Stormwater Retention/Detention BMPs such as wet ponds, dry basins, or multi-chamber catch basins.
- g. Stormwater Retrofits – PSWCJSWSA will continue to provide guidance when necessary regarding Stormwater retrofits. As recommended by KDOW, the Center for Watershed Protection has developed an Urban Stormwater Retrofit Practices manual. This

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publication is available at <http://owl.cwp.org/mdocs-posts/urban-subwatershed-restoration-manual-series-manual-3/>.

- h. PSWCJSWSA will continue to provide training and informational materials to the local community (local officials, developers, contractors, landowners) about post construction management. PSWCJSWSA will continue to attempt to incorporate information about post-construction stormwater management in MCM 1 and MCM 2.

5. Measurable Goals:

Measurable Goals will be reviewed annually to gauge permit compliance and program effectiveness. Measurable Goals will be presented in a report format that reflects information in the Kentucky Division of Water Phase II SWQMP Preparation Guidance document. The SWQMP Measurable Goals Report can be found in Appendix B.

**2.2.6. Pollution Prevention/Good Housekeeping for Municipal Operations**

1. PSWCJSWSA continues to use the Operation and Maintenance (O & M) plan that includes a training component for municipal staff with the goal of preventing or reducing pollutant runoff from municipal operations.
2. PSWCJSWSA's O & M plan includes employee training to prevent and reduce stormwater pollution resulting from activities such as parks and open space maintenance, fleet and building maintenance, new construction and land disturbances, stormwater system maintenance, and green infrastructure maintenance. PSWCJSWSA utilizes training materials that are available from the Environmental Protection Agency (EPA), the Division of Water, and other organizations.
3. PSWCJSWSA's plan includes an inventory of municipal facilities owned and operated by the MS4 permittee, including, maintenance activities, maintenance schedules, and ongoing written inspection procedures for structural and non-structural BMPs.
4. PSWCJSWSA utilizes 311 to track activities relative to this program element as necessary to document compliance with permit requirements and prepare the annual system-wide report pursuant to Part III.A. of the permit.
5. PSWCJSWSA will refer to the DOW's Phase II SWQMP Preparation Guidance for specific BMPs that may be used to comply with this Minimum Control Measure.
6. PSWCJSWSA Pollution Prevention/Good Housekeeping for Municipal Operations includes:
  - a. PSWCJSWSA has an inventory of municipal operations.
  - b. In utilizing the municipal operations inventory, once stormwater controls that need to be improved or be implemented have been identified, PSWCJSWSA will prioritize the more critical ones first in an effort to eliminate or reduce the discharge of pollutants that are impairing or threatening the local waterways.
  - c. PSWCJSWSA has developed and implemented an operations and maintenance program with the goal of preventing or reducing pollutant runoff from municipal operations into the storm sewer system.

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- d. Scheduling and conducting maintenance activities and long-term inspection procedures for structural and non-structural controls to reduce floatables and other pollutants discharged from the separate sewer system are within the O & M plan that PSWCJSWSA has developed.

7. Measurable Goals:

Measurable Goals will be reviewed annually to gauge permit compliance and program effectiveness. Measurable Goals will be presented in a report format that reflects information in the Kentucky Division of Water Phase II SWQMP Preparation Guidance document. The SWQMP Measurable Goals Report can be found in Appendix B.

### 2.3. SWQMP Review and Modification

1. PSWCJSWSA will annually evaluate the effectiveness of the SWQMP and BMPs implemented to comply with this general permit. The permittee will modify ineffective BMPs, and modify ineffective schedules of effective BMPs.
2. PSWCJSWSA will modify the SWQMP during the life of the permit in accordance with the following procedures:
  - a. Modifications that add but neither subtract nor replace, components, controls, or requirements, may be made by the permittee at any time. A description of the modification will be included in the Annual Report;
  - b. Modifications that replace an ineffective or infeasible stormwater control, which is specifically identified in the SWQMP along with an alternate stormwater control, may be made by PSWCJSWSA at any time. A description of the replacement stormwater control will be included in the following Annual Report and the following information:
    - i. An analysis of why the former stormwater control was ineffective or infeasible (including cost-prohibitive);
    - ii. Expectations on the effectiveness of the replacement stormwater control; and
    - iii. An analysis of why the replacement stormwater control is expected to achieve the goals of the BMP which this control replaced.
  - c. Modifications to adjust the schedule for maintenance activities or the frequency of inspections identified in the SWQMP may be made annually by PSWCJSWSA. PSWCJSWSA will include in the Annual Report a description of the adjustment to the schedule and the following information:
    - i. An analysis of why the former schedule was ineffective or infeasible; and
    - ii. Expectations on the effectiveness of the replacement schedule;
3. PSWCJSWSA may proceed with any uncompleted programs from the previous permit cycle to provide the continuation of positive activities towards improvement of water quality.

4. The content and provisions of the SWQMP are not considered permit conditions. The SWQMP is an implementation plan to be utilized as a tool by PSWCJSWSA to facilitate compliance with the six program elements outlined in this permit.

#### **2.4. Total Maximum Daily Loads and Impaired Waters**

If during the permit term, there is an approved TMDL issued for an impaired waterbody into which the PSWCJSWSA discharges, and for which the PSWCJSWSA causes or contributes to water quality impairment(s), the PSWCJSWSA will review the TMDL and applicable waste load allocation(s) to determine if the current SWQMP is adequately achieving the MEP standard for the approved TMDL. This modification will occur in conjunction with the normal SWQMP updating process, in accordance with 2.3 of this Permit relating to Plan Implementations and Modifications. The TMDL will be implemented by PSWCJSWSA to the MEP.

#### **2.5. Implementation of a Small MS4 Program Monitoring Plan**

PSWCJSWSA will implement an appropriate monitoring program that evaluates the effectiveness of the PSWCJSWSA's MS4 program and provides feedback for the permittee to change or improve the stormwater quality management program appropriately. PSWCJSWSA's MS4 program monitoring plan, as approved by the Division of Water, will be implemented during the current permit period.

The monitoring program will, at a minimum, contain:

1. A brief narrative of the permittee's proposed monitoring program;
2. A map of the Urbanized Area showing the outfalls including names of the receiving streams;
3. Using the information contained in the most recent 303(d) list, information on the water quality attainment status (i.e., fully supporting, partially supporting, or non-supporting) of the local small MS4 receiving streams including pollutants of concern;
4. An inspection checklist for visual monitoring of the major outfalls, including basic information such as inspection date/time, latitude/longitude, weather conditions, and presence of visual markers for pollution (i.e., foam, excessive algae growth, oil deposits, and excessive sedimentation);
5. Documentation to verify performance of the visual monitoring, including but not limited to, completed inspection checklists and photographs; and
6. Should include a glossary of terms, standard operation procedures, and any reference materials cited.

PSWCJSWSA will implement this plan on or before June 30, 2019.

#### **2.6. Qualifying Local Program (N/A)**

#### **2.7. Small MS4 Training**

PSWCJSWSA will designate, January 1, 2019, and annually thereafter, one person who is responsible for permit implementation to receive twelve (12) hours of documented training per permit year.

#### **2.8. Fiscal Requirements**

PSWCJSWSA has established and is maintaining a fee to ensure the accomplishment of the activities required by this permit.



# **SECTION 3**

## **REPORTING**

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### 3. Reporting

#### 3.1. Reporting Requirements

PSWCJSWSA will prepare an annual system-wide report (Annual Report) to be submitted no later than April 15th of the year following the calendar year covered by the report. The first report for this SWQMP will be on or before April 15, 2020. PSWCJSWSA's intent is to utilize KDOW's General Permit Annual Compliance Report form. The Annual Report will include at a minimum:

1. An overall evaluation of the stormwater quality management program developments and progress including: major findings such as water-quality improvements or degradation, major accomplishments, overall program strengths/weaknesses; and future direction of the program. The permittee will state an overall assessment of the effectiveness of the SWQMP taking into account water quality/watershed improvements;
2. The number of illicit discharges discovered; describing discharge and resolution;
3. A summary of inspections and enforcement actions for regulatory programs;
4. A summary of installed BMPs for post-construction stormwater management for new and redevelopment;
5. A summary of pollution prevention and good housekeeping BMPs performed at the municipal operations;
6. The status of implementation and proposed changes to the stormwater quality management program, including assessment of controls and specific improvements or degradation to water quality; and
7. Any improvements in water quality due to watershed activities.
8. The Annual Report will be submitted electronically. We will access the system at the following web address: <https://dep.gateway.ky.gov/eForms/default.aspx?FormId=50>

We will retain records accumulated pursuant to this general permit for no fewer than three years following the termination of this general permit.

#### 3.2. Certification

Our reports submitted to the Division of Water (DOW) will be signed and certified pursuant to 401 KAR 5:060. Each report will contain the following completed declaration:

"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.

Executed on the day of \_\_, month, year.  
(Signature)(Title)"

# **SECTION 4**

## **STANDARD CONDITIONS**

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**4. Standard Conditions for WCFC/PS AGENCY SWQMP**

Applicable WCFC/PS AGENCY SWQMP conditions in KPDES regulation 401 KAR 5:065, Section 1, will apply to all discharges authorized by this permit.

## **SECTION 5 OTHER CONDITIONS**

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**5. OTHER CONDITIONS****5.1. Schedule of Compliance**

We plan to obtain attain compliance with requirements of this permit on the effective date of this permit unless otherwise stated.

**5.2. Other Permits**

We understand issuance of this permit does not relieve us from the responsibility of obtaining other permits or licenses required by this Cabinet and other state, federal, and local agencies.

**5.3. Continuation of Expiring Permit**

In the event the permit expires prior to reissuance by DOW, the conditions and requirements of this version of KYG20 will continue in effect until DOW reissues the permit. We understand, new or expanded coverages cannot be authorized until the permit is reissued.

**5.4. Reopener Clause**

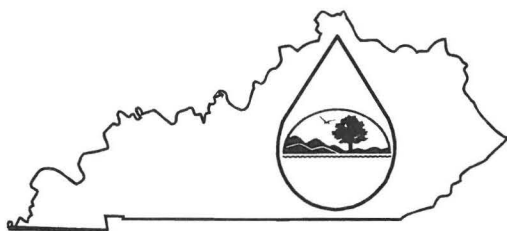
We understand this permit will be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved in accordance with 401 KAR 5:050 through 5:080, if the effluent standard or limitation so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph will also contain other requirements of KRS Chapter 224 when applicable.

APPENDIX A  
NOTICE OF INTENT (NOI)

KPDES FORM NOI-SW/SMS4



**Kentucky Pollutant Discharge Elimination System  
(KPDES)**  
Notice of Intent (NOI)  
for Stormwater Discharges from Small  
Municipal Separate Storm Sewer Systems (sMS4)  
KPDES General Permit

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by a KPDES permit issued for storm water discharges from a small municipal separate storm sewer system (sMS4). Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit.

**ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM** (See Attached Instructions)

**I. Permittee Information (attach co-permittee information to this application, if applicable)**

<b>Name:</b>	Warren County Fiscal Court	<b>Contact Person:</b>	Jack Wright
<b>Address:</b> (If PO Box, include street address)	/Plum Springs (AGENCY) Plum Springs Warren County Joint Stormwater Sewer Agency	<b>Phone:</b>	270 843 5363
<b>City, State, Zip Code:</b>	1141 State Street, Suite 202 Bowling Green, KY 42101		

**II. Storm Sewer Map**

Submit a storm sewer system map indicating the location of all major storm sewer outfalls and names and locations of the receiving streams, and delineation of watershed drainage areas. \*See Attachment F`

**III. Minimum Controls:** MCM3\_MajorOutfalls\_MOD\_NOI

Submit a report of the best management practices already implemented or scheduled to be implemented to meet the minimum control measures, including any measurable goals to aid in the development and implementation of the controls (an MS4's existing SWQMP and/or annual report\* may be submitted to satisfy this requirement). Indicate by marking the appropriate box whether you or another entity is responsible for the respective control measure. If another entity, indicate the name of the responsible party next to the appropriate box.

Are you responsible for the control measure?  
If no, indicate the responsible party.

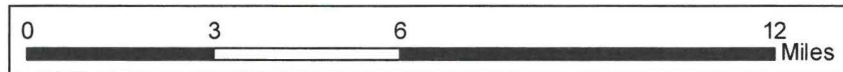
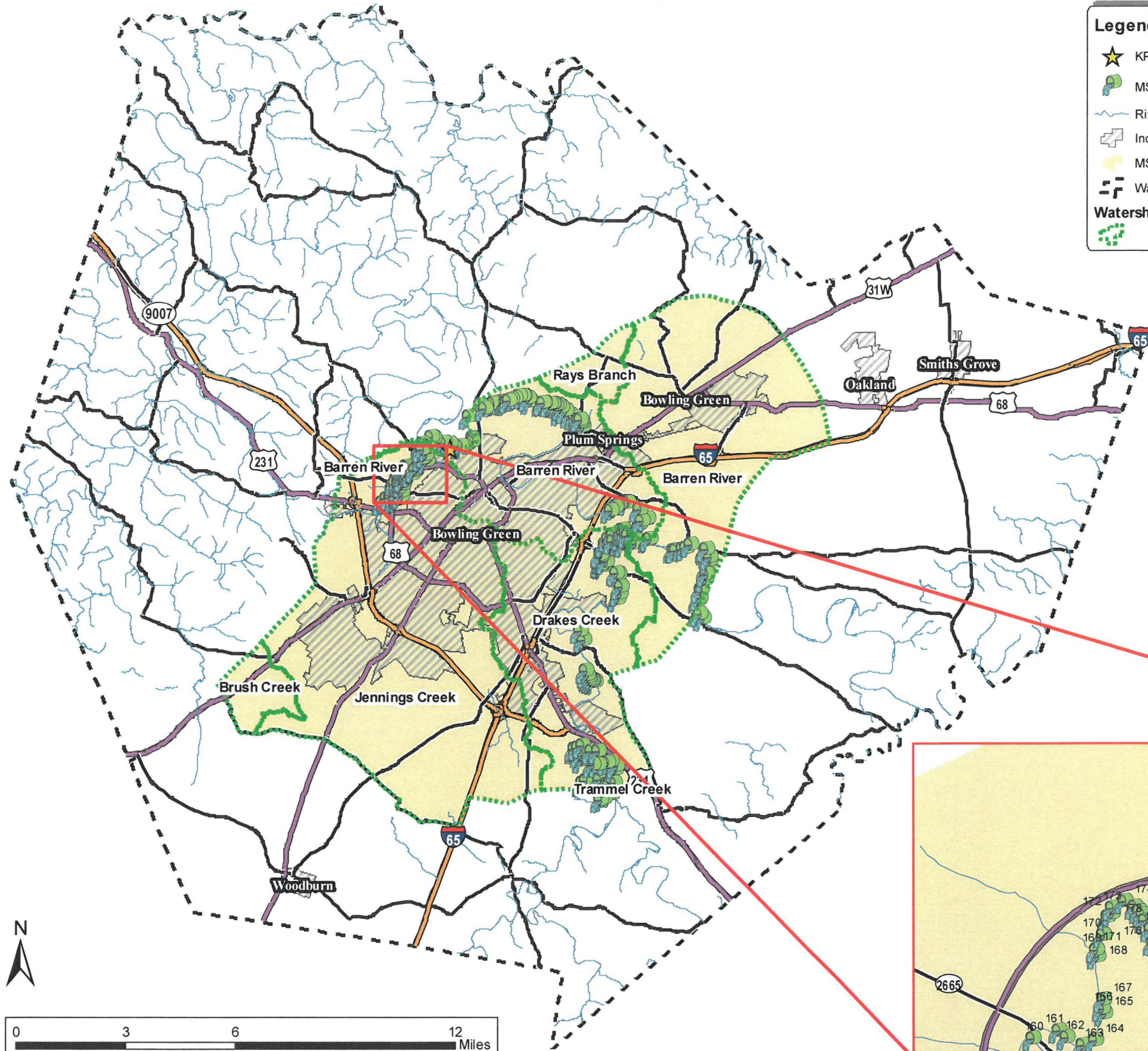
\*See previously submitted  
2017 Annual Report.

<b>A. Public Education and Outreach</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<b>B. Public Involvement and Participation</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<b>C. Illicit Discharge Detection and Elimination</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<b>D. Construction Site Runoff Control</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<b>E. Post Construction Management for Development and Re-Development</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<b>F. Pollution Prevention and Good Housekeeping for Municipal Operations</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**IV. Certification:** 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.

<b>Printed or Typed Name:</b>	Jack Wright		
<b>Signature:</b>	<i>Jack Wright</i>	<b>Date:</b>	30 May 18





2018-05-25

**Legend**

- ★ KPDES Outfall
- MS4 County Major Outfalls
- ~ Rivers and Streams
- ⊕ Incorporated City Limits
- ⬡ MS4 County Boundary
- ⬢ Warren County Boundary
- ⬣ Watersheds

**Major Roadways**

- ⬢ Interstate 65
- ⬢ KY state roads
- ⬢ PKWY
- ⬢ US roads

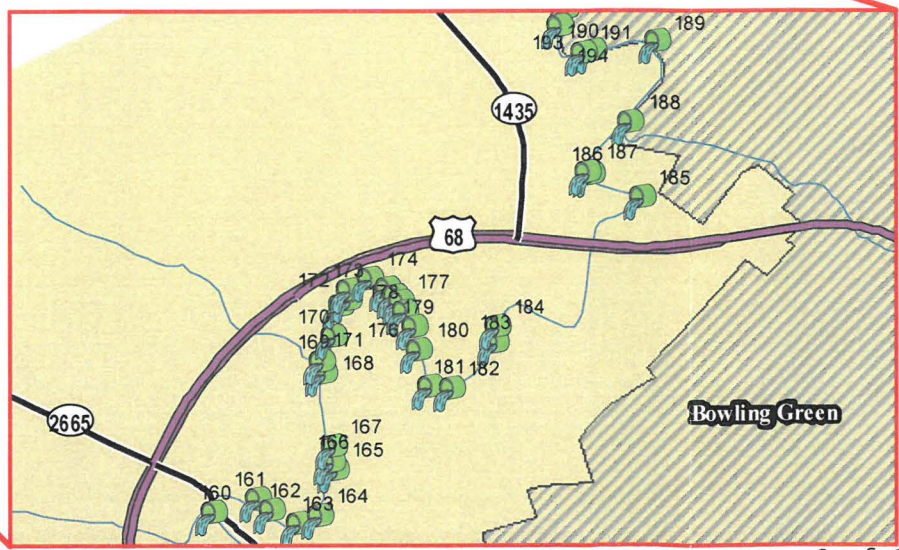
**WCPW**  
**STORMWATER**  
**MANAGEMENT**

1141 STATE STREET  
 SUITE 202  
 BOWLING GREEN, KY 42101  
 270.841.6261  
 WARRENCO.ORG@KY.GOV  
 WWW.WARRENOCOUNTYGOV.COM

**DISCLAIMER:**  
 ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF WARREN COUNTY FISCAL COURT AND SHALL NOT BE COPIED WITHOUT THE CONSENT OF WARREN COUNTY FISCAL COURT.  
 THE USER UNDERSTANDS THAT THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION.

2017  
 Phase II MS4 Program  
 Modified Major Outfalls  
 Warren County, KY

31 Outfalls Inventoried



**DRAWN BY / CARTOGRAPHER:**  
 Taylor Berzins, GIS Specialist  
**DATE:** 05/25/2019  
**SCALE:** Refer to Map Scale  
**SHEET NAME:**  
 Modified Major Outfalls  
**SHEET NUMBER:**  
 G1.0

## **Kentucky Pollutant Discharge Elimination System (KPDES) Instructions**

### **Notice of Intent (NOI) for Storm Water Discharges Associated with Small Municipal Separate Storm Sewer Systems (SMS4) To Be Covered Under the KPDES General Permit**

#### **WHO MUST FILE A NOTICE OF INTENT (NOI) FORM**

The operator of a small MS4, in accordance with 40 CFR Parts 9, 122, 123, and 124 and 401 KAR 5:060, must submit a NOI to obtain coverage under the small MS4 KPDES Stormwater General Permit. Any questions regarding whether a permit is needed under the small MS4 KPDES Stormwater Program can be addressed by the **Kentucky Division of Water at (502) 564-3410**.

#### **WHERE TO FILE NOI FORM**

NOIs must be completed and submitted online. Applicants can access the system at the following web address: <https://dep.gateway.ky.gov/eportal/default.aspx>

#### **COMPLETING THE FORM**

Type or print legibly in the appropriate areas only. Any questions regarding the completion of this form should be directed to the MS4 Coordinator at (502) 564-3410 or [SWPBsupport@ky.gov](mailto:SWPBsupport@ky.gov).

#### **SECTION I - Permittee Information**

Give the legal name of the person, firm, public organization, or entity legally designated as the Permittee responsible for maintaining compliance with the approved Stormwater Phase II MS4 permit. Enter the complete address and phone number of the operator of the small MS4 system(s) and co-permittees bound by the Stormwater Phase II MS4 permit as a part of this NOI. Attach a list of co-permittees if applicable. Also, include co-permittee list and legally binding MOU's in the Stormwater Quality Management Plan (SWQMP).

#### **SECTION II – Storm Sewer Map**

Include a detailed map of the storm sewer system indicating all storm water outfalls to the waters of the Commonwealth and delineating the separate watershed drainage areas.

#### **SECTION III – Minimum Control Measures**

Include the current status of the listed control measures. If another entity is responsible for a particular control measure, indicate the entity as appropriate.

#### **SECTION IV - CERTIFICATION**

Federal statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

*For a municipality, state, Federal, or other public facility:* by either a principal executive officer or ranking elected official.

# **APPENDIX B**

## **SWQMP Measurable Goals Report**

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# SWQMP Measurable Goals Report

Warren County Public Works  
Division of Stormwater Management  
KYG20 Permit Years 2019-2023

## **MCM 1 Public Education and Outreach**

BMP/Activity: K-12 School Classroom Visits  
Measure of Success: Number of Students Reached  
Year 1 – PY 2019:  
Year 2 – PY 2020:  
Year 3 – PY 2021:  
Year 4 – PY 2022:  
Year 5 – PY 2023:

BMP/Activity: Presentations to Civic & Professional Organizations  
Measure of Success: Number of Citizens Reached  
Year 1 – PY 2019:  
Year 2 – PY 2020:  
Year 3 – PY 2021:  
Year 4 – PY 2022:  
Year 5 – PY 2023:

Partnerships:  
City of Bowling Green Environmental Compliance Division  
Builders Association of South Central Kentucky  
Realtor Association of Southern Kentucky

## **MCM 2 Public Involvement and Participation**

BMP/Activity: Earth/Arbor Day Events

Measure of Success: Event Attendance

Year 1 – PY 2019:

Year 2 – PY 2020:

Year 3 – PY 2021:

Year 4 – PY 2022:

Year 5 – PY 2023:

BMP/Activity: Household Hazardous Waste Day

Measure of Success: Event Attendance, Quantity of Waste Collected

Year 1 – PY 2019:

Year 2 – PY 2020:

Year 3 – PY 2021:

Year 4 – PY 2022:

Year 5 – PY 2023:

BMP/Activity: K-12 Field Trips

Measure of Success: Number of Participants

Year 1 – PY 2019:

Year 2 – PY 2020:

Year 3 – PY 2021:

Year 4 – PY 2022:

Year 5 – PY 2023:

Partnerships:

City of Bowling Green Environmental Compliance Division

Kentucky Division of Water

Lost River Cave

Warren County Parks & Rec

Warren County Conservation District

Bowling Green Municipal Utilities

## **MCM 3 Illicit Discharge Detection and Elimination**

**BMP/Activity:** **Outfall Site Inspection**  
**Measure of Success:** Percentage of total inventoried outfalls visually inspected annually  
Year 1 – PY 2019:  
Year 2 – PY 2020:  
Year 3 – PY 2021:  
Year 4 – PY 2022:  
Year 5 – PY 2023:

**BMP/Activity:** **New Major Outfalls**  
**Measure of Success:** Number of cataloged new major outfalls to be included with total  
Year 1 – PY 2019:  
Year 2 – PY 2020:  
Year 3 – PY 2021:  
Year 4 – PY 2022:  
Year 5 – PY 2023:

**BMP/Activity:** **Review Reported/Discovered IDDEs**  
**Measure of Success:** Number of reported IDDEs  
Year 1 – PY 2019:  
Year 2 – PY 2020:  
Year 3 – PY 2021:  
Year 4 – PY 2022:  
Year 5 – PY 2023:

**Partnerships:**  
City of Bowling Green Environmental Compliance Division  
Barren River District Health Department

## MCM 4 Construction Site Stormwater Run-off Control

**BMP/Activity:**            **Permit Review**  
**Measure of Success:**    Number of permits reviewed  
Year 1 – PY 2019:  
Year 2 – PY 2020:  
Year 3 – PY 2021:  
Year 4 – PY 2022:  
Year 5 – PY 2023:

**BMP/Activity:**            **Site Inspection**  
**Measure of Success:**    Number of sites inspected  
Year 1 – PY 2019:  
Year 2 – PY 2020:  
Year 3 – PY 2021:  
Year 4 – PY 2022:  
Year 5 – PY 2023:

**BMP/Activity:**            **EPSC Training**  
**Measure of Success:**    Number of EPSC trainings conducted  
Year 1 – PY 2019:  
Year 2 – PY 2020:  
Year 3 – PY 2021:  
Year 4 – PY 2022:  
Year 5 – PY 2023:

**Partnerships:**  
City of Bowling Green Environmental Compliance Division  
City-County Planning Commission  
Kentucky Division of Water  
Builders Association of South Central Kentucky  
Realtor Association of Southern Kentucky

## **MCM 5 Post-Construction Stormwater Management in New/Re-Development**

**BMP/Activity: Permit Review**

**Measure of Success:** Number of permits reviewed

Year 1 – PY 2019:

Year 2 – PY 2020:

Year 3 – PY 2021:

Year 4 – PY 2022:

Year 5 – PY 2023:

**BMP/Activity: Site Inspection**

**Measure of Success:** Number of sites inspected

Year 1 – PY 2019:

Year 2 – PY 2020:

Year 3 – PY 2021:

Year 4 – PY 2022:

Year 5 – PY 2023:

**BMP/Activity: Post-Construction Stormwater Management Training**

**Measure of Success:** Number of Post-Construction Stormwater Management trainings conducted

Year 1 – PY 2019:

Year 2 – PY 2020:

Year 3 – PY 2021:

Year 4 – PY 2022:

Year 5 – PY 2023:

**Partnerships:**

City of Bowling Green Environmental Compliance Division

City-County Planning Commission

Kentucky Division of Water

Builders Association of South Central Kentucky

Realtor Association of Southern Kentucky



## **MCM 6 Pollution Prevention and Good Housekeeping**

**BMP/Activity:** **Pollution Prevention and Good Housekeeping Training**

**Measure of Success:** Number of good housekeeping trainings conducted

Year 1 – PY 2019:

Year 2 – PY 2020:

Year 3 – PY 2021:

Year 4 – PY 2022:

Year 5 – PY 2023:

**BMP/Activity:** **Operations and Maintenance Plan Review**

**Measure of Success:** Complete (1) or more reviews of the O&M Plan annually

Year 1 – PY 2019:

Year 2 – PY 2020:

Year 3 – PY 2021:

Year 4 – PY 2022:

Year 5 – PY 2023:

**BMP/Activity:** **Household Hazardous Waste Day**

**Measure of Success:** Conduct (1) or more events annually

Year 1 – PY 2019:

Year 2 – PY 2020:

Year 3 – PY 2021:

Year 4 – PY 2022:

Year 5 – PY 2023:

**Partnerships:**

City of Bowling Green Public Works

City of Bowling Green Environmental Compliance Division

Warren County Public Works

Warren County Stormwater

Landshark Shredding

Warren County Conservation District

Bowling Green Fire Department

Warren County Sheriff's Office

Habitat for Humanity