

ATTACHMENT #1:

2022 – 2026 Permit Application Brief Description of Proposed BMPs to be used in each of the 6 Minimum Control Measures (MCMs):

MCM #1: Public Education and Outreach on Stormwater Impacts Program BMPs

#1. Storm Drain Medallion application with Tributary messages such as “No Dumping, Drains to River”.

Description: Storm Drain Medallion Program – Though the City in the past has stenciled a few hundred storm drains, we have discovered the paint does not last long. As the storm drain stencil paints fades the information is replaced with a 4” diameter round aluminum medallion.

These medallions not only have engraved on the top “No Dumping, Drains to River” information, they also contain sequential identification numbering.

The City will continue to install 50 storm drain medallions annually on existing (to replace faded stenciling) and new storm drains as those areas are developed and mapped. The target group for this BMP is the general public / residential areas of the City of Nixa.

The target pollutants are Grass clippings, leaf litter, fertilizers, pesticides, and vehicles fluids.

#2. Educational programs for school-age children.

Description: *Spring Watershed Festivals – These Spring Watershed Festivals are geared toward educating Middle School age children on the importance of clean stormwater and what they can do to help insure cleaner water here in the City of Nixa and at home.

These festivals not only reach out to the Middle School aged children in Nixa, but in years past has included children in other surrounding area schools here in Christian Count. Such as Spokane, Clever, Billings, Ozark and Sparta. These Spring Watershed Festivals are a collaborative effort between the City of Nixa and the James River Basin Partnership.

Though several pollutants and pollutant sources are addressed in this program the key target pollutants are pet waste, wash water, grey water (and the difference there of) vehicle fluids and vehicles washing.

**Due to a change in the Nixa school district curriculum in 2019 and COVID 19 in 2020, we have been unable to access the schools for this Spring Watershed Festival for the past two school calendar years.*

However, the City of Nixa stormwater staff and the staff of James River Basin Partnership feel this is a very worthwhile program. We intend to follow up with the Nixa Schools System to hopefully gain access once again to the Nixa School system for the purpose of these Watershed Festivals moving forward.

In the age of Covid, this may be achieved through a digital video learning format such as Zoom, Skype, Facetime or other. Our goal is to resume these Watershed festivals by the 2nd year of this permit (2023) and present this program in the schools every spring (March-April) yearly, for the remainder of this permit cycle.

#3. Door Hangers

Description: EPA provided “Stormwater Pollution Found in Your Area”. The door hangers provide information on the damaging effects to rivers, streams and drinking water sources that can occur from improperly disposing of pollutants such as yard waste, oil, antifreeze, grass clippings and leaf litter into City streets and storm drains. Where City staff can determine a particular residence/business has created a stormwater pollution issue including but not limited to those listed above, a door hanger is placed for the purpose educating the resident/business owner of the pollution issues related to these activities. These door hangers will continue to be utilized annually, as needed (year-round) during the entire permit cycle of 2022 - 2026. The target group for this BMP is the general public / residential areas of the City of Nixa. Targeted pollutants are vehicle waste fluids, grass clippings and leaf litter.

#4. Utilization of the City Website, Electronic and Social Media.

Description: The City of Nixa is committed to Public Education and Outreach. We understand the trend is to utilize the City website, digital social media of varying platforms, mass text messaging, e-mail, etc. So, we intend to do just that.

The City has developed several different ways to communicate with thousands of our citizens/residents at a time instead of just a few hundred here or there. In order to do that, you have to meet them where they live, on their phones, laptops, tablets, etc.

One of the most recent tools we have implemented is a monthly newsletter that is sent out via e-mail to every City of Nixa utility customer. This newsletter address' happenings within the City staff, City government, and starting in Spring of 2021 will have a Stormwater section. Currently there are 9000+ utility customers receiving this Newsletter.

This newsletter platform is also utilized as a public alert type system, that can be e-mailed to subscribers about issues such as: traffic issues due to construction, weather and road conditions, police advisories such as a silver alert, stormwater, and flooding issues, just to name a few. These alerts are sent out on an as need basis and can be utilized on a moment's notice.

The city additionally utilizes the typical popular social media outlets such as Facebook, Instagram, Next Door and Twitter. The target audience for this BMP is the general public, residents/utility customers of the City of Nixa and anyone outside of the City limits that has signed up of this newsletter platform.

The target pollutants for this BMP are literally, at one time or another, everything listed on Table II (Pollutants/Sources) of the upcoming 2022 – 2226 permit regulations. Within the Stormwater Section of this Newsletter, we intend to address a different pollutant and its source quarterly. This BMP will be utilized throughout the 2022-2026 permit cycle.

MCM #2 Public Involvement and Participation Program BMPs

#1. Public Notice and Public Hearing for review of Stormwater Documents.

Description: The City of Nixa will hold a **public notice period for a Minimum of thirty (30) days** to allow the public to review the draft permit, and description of the MS4s Stormwater Management Program (including the Stormwater Management Plan) prior to the submission of the renewal application to the Department.

As part of the public notice, the required items will be posted on our website with a way to submit comments, along with the standard public notice methods.

- a) The City will respond to comments received during the comment period.

b) The City will retain copies of any public comments and records of information submitted by the public received as part of the public notice process. These comments and responses will be made available to the public or the Department upon request.

The City will hold a **public information meeting** to provide information on, or describe the contents of, the proposed Stormwater Management Program. This meeting will be advertised at least thirty (30) days prior to the public meeting.

1. As part of the notice of public meeting, the City will post the notice of the public informational meeting, including the date, time, and location.
2. This meeting will be held within the City of Nixa.

The 30-day **public notice period** for the public to view the proposed Stormwater Management Program documents online will starting March 4th, 2021. This same process will also be utilized in years 1 (2022), 3 (2024), and 5 (2026) of the upcoming permit cycle. This is to allow continued oversight and feed back from the public which we hope will help us achieve more buy in, to the program and create more involvement/ownership from the public.

#2. “Adopt A Street” program.

Description: The City will continue to provide this program for family groups, residential neighborhoods, formal civic and church groups, and business groups. The purpose of this BMP is to encourage community support for litter prevention, cleaner stormwater, and street beautification efforts in general.

The City furnishes the trash bags, gloves, trash-pick-up-sticks, an acknowledgment sign for each adoption and picks up & disposes of all trash collected.

Annually in June of each permit cycle year we will advertise on all available digital and print media the details of this program and how/why citizens can and should be involved in the program. Currently there are 21.28 street lane miles adopted with 15 different adoptive groups/families.

#3. Stream Team Clean-ups.

Description: The City will continue to participate in the Missouri Department of Natural Resources program as team number #282, City of Nixa employees. For the past 20 years, the City of Nixa has conducted river cleanup events on two major local waterways (Finley River and James River).

Our goal is to conduct 2 (1 spring and 1 fall) clean up events annually. However, in 2020 considering the Covid 19 issues, we elected not to gather the large group to conduct these stream team river clean up events. It is our full intention to resume this very effective, very worthwhile program as soon as we can do so safely.

Though the public is not allowed to participate in these city employee sponsored river cleanup events (due to liability), after every event the City posts photos of the group and the mound of trash and debris collected to encourage others in the community to form their own Stream Team and be a part of this great cause.

The goal this permit cycle is to again conduct 2 (spring and fall) stream team river clean ups annually starting in year 1 (2022) of this permit cycle.

#4. Rain Barrel Rebate Program.

Description: A program by which the residents of Nixa may receive a one-time rebate as a direct reimbursement to them, at a rate of fifty cents per gallon of containment installed. This rebate is based upon their rain collection systems capacity. For example, a 100-gallon system would yield a onetime \$50.00 rebate after installation of the collection system.

To qualify, systems must hold a minimum of 50 gallons. The maximum rebate per property is \$300.00. This Rain Barrel Rebate Program is in cooperation with the James River Basin Partnership, to whom the City has contributed to funds available for this reimbursement program.

Annually in June we will advertise on all available digital and print media the details of this program and how/why citizens can and should be involved in the program. Target Groups are general public, residents/utility customers.

MCM #3 Illicit Discharge Detection and Elimination Program BMPs

Though the vast majority of the BMP's that fulfil the permit requirements of MCM #3 will be contained within the IDDE Manual, listed below are just a few BMP's that the City will either continue to do or implement within year 1 (2022) of the upcoming permit cycle.

#1. Stormwater System and Outfall Map

Description: This Stormwater - Outfall map contains the elements required within this MCM which are location of all outfalls, the names and locations of all waters of the United States that receive discharges from those outfalls, City of Nixa limit boundaries, etc. This is an ever-changing document as we add newly developed and annexed areas to the city and expand the City limit boundaries.

This map also reflects the entire City of Nixa Stormwater system including basins & outlet weir structures, inlet boxes, trickle channels (types, sizes, and locations), pipes (type, size and location), etc. The City will continue to update this map annually as new areas of the city are developed.

#2. Development and Implementation of Illicit Discharge Detection and Elimination (IDDE) Manual.

Description: This Manual will serve as a guide for developing an Illicit Discharge Detection and Elimination program as required by the MS4 Phase II stormwater Permit Program. This manual is in final draft stage and will be implemented either in year 5 (2021) of the current permit cycle or in year 1 (2022) of the upcoming permit cycle.

For example, this IDDE manual addresses the protocol for dry weather screening. It identifies priority areas within the City boundaries, identifies the number of outfalls to be screened each year of the permit cycle.

It includes sample checklists form investigation and tracking of complaints. It outlines protocol for tracing a pollutant source of an illicit discharge and contains procedures for removing the source of that discharge.

#3. Cure In Place Pipe. (C.I.P.P.)

Description: Professional installation of a single/continuous (cut to length for each individual pipe run distance) piece of resin impregnated fiberglass flexible pipe (tube) material. This program is funded annually for different sections of the old portion of town where older sanitary sewer pipes are in bad condition.

This material is kept and stored in a refrigerated truck until such time it is installed. This resin impregnated fiberglass pipe material is inside out until it is blown down the length of the pipe section (from manhole to manhole) at which time it is inverted as installed.

Once in place, the length of pipe is filled with steam for a calculated length of time per run. The steam is what triggers the resin to set up creating what is essentially a schedule 40 pipe inside of the existing older host pipe.

This BMP is a means by which we can essentially replace an old, dilapidated section of sanitary sewer pipe with a new pipe without digging up an entire yard and all the mess and aggravation that entails. By relining these older sanitary sewer pipes, all cracks, breaks or missing pieces of pipe are seal off and eliminates any I and I (Inflow and Infiltration) that can inundate these old sewer pipes and the Wastewater Treatment facility. Additionally, by all cracks, breaks or missing pieces of pipe being seal off, it also works in the reverse of I and I. This new pipe lining keeps any raw sewage from leaking out into the ground and polluting the stormwater and ground water source.

#4. IDDE Onsite Annual Inspections Of: Commercial and Industrial Properties, City Owner Public Facilities and Stormwater Outfalls.

Description: Inspections of Commercial & Industrial properties, City owned & operated public facilities and Stormwater Outfalls. These inspections have been done for several years and the City will continue to do them.

For the past, several years we have inspected all 750+ commercial/industrial properties within the City. As each property inspection is completed, a findings report is generated. If any violations are discovered, a copy of the findings report is sent by USPS to the business with a description of the violation and a timeframe in which they should have it cleaned up and a plan for preventing this violation in the future.

That is an enormous task and takes time away from accomplishing other Stormwater Management Plan goals and other assigned duties. Therefore, during the 2022-2027 permit cycle the city will annually inspect and document the findings of 20% of these commercial/industrial properties. This will ensure that all commercial/industrial properties are thoroughly inspected at least once during the 5-year permit cycle. Those areas in which a violation of stormwater regulations is discovered, will be inspected more often to follow up and ensure compliance.

#5. Employee Training.

Description: Continue IDDE training program to educate City personnel on the identification of illicit discharges and procedures for reporting observations to appropriate personnel. The goal is to conduct this training in late spring or early summer annually each year of the permit cycle. This is to coincide with the increase of outdoor activities of warmer weather.

MCM #4 Construction Site Runoff Program BMPs

#1. Land Disturbance, Illicit Discharge and Erosion Control, Stormwater Ordinance

Description: The City currently has had such an enforcement mechanism in place since the early 1990's. This ordinance (among other things) requires development construction site operators to implement and maintain effective erosion and sediment control BMPs on their project, throughout duration of their project.

This existing ordinance, though very thorough, it is a bit dated. During the 5th year (2021) of the current permit cycle and the first year (2022) of the upcoming permit cycle this ordinance will be reviewed update to reflect the new requirements of MCM #5 Post Construction.

#2. Pre-Development Review Team

Description: The City has created a Pre-development team that meets once a week (as needed) to discuss preliminary information on prospective new developments. This meeting is conducted by the City's Planning and Development Director and the team is made up of the City's: P & D Director, Street Department Superintendent, Water-Wastewater Superintendent, Electric Department Superintendent, Director of Public Works, Assistant Director of Public Works and Public Works Inspector (MS4 Coordinator).

By purpose of these pre-development meetings is to give each City department is a chance to review and discuss any potential concerns or issues may have while the development is still in the planning stage. Such as, what is the likelihood of a negative impact the development may have on downstream stormwater, erosion and sediment control, etc.

This BMP will remain in place throughout the upcoming permit cycle (2022-2026) as we feel it is a very useful tool.

#3. Pre-Construction Meetings

Description: These meetings are attended by City staff of the various Public Works departments, the owner/developer, and the engineer of record. The meetings are generally conducted a few days to a month prior to the start of construction. It is a final opportunity to discuss as a group, the concerns and expectation that each party might have of the other.

By discussing these concerns in this type of setting, each entity present can participate in the discussion and/or at least note what was said. Stormwater concerns and expectations are discussed at these meetings, specifically advising the owner and contractor that strict adherence to the Sediment and Erosion control plan and permit requirements such as the weekly inspection are crucial.

This BMP will remain in place throughout the upcoming permit cycle (2022-2026) as we feel it is a very useful tool.

#4. Development (and Commercial) Plan Review Process

Description: This Plan Review process helps to expedite the plan review process for local developments. This process includes review of the proposed construction documents by the Planning and development Department, the various Public Works departments including the Public Works Inspector/MS4 Coordinator.

One copy of the proposed construction documents is sent to the City's contracted stormwater engineering firm for review. They review the stormwater system, design criteria, pipe size, capacity of basins, discharge rates, etc. and not MS4 issues. MS4 issues are addressed by the Public Works Inspectors.

All plans are also reviewed to verify and ensure that proposed construction activities at sites of one acre and greater, including construction activities at sites that are part of a larger common plan of development, meet the appropriate stormwater requirements including permit coverage under MODNR, the City of Nixa, the SWPPP, and appropriate BMPs.

This BMP will remain in place throughout the upcoming permit cycle (2022-2026) as we feel it is a very useful tool.

#5. Site Inspections and Enforcement

Description: The City will continue to conduct development and construction site inspections and enforcement. The purpose of these inspections is to assure that the construction site operators are complying with the regulations set forth in the LDP, SWPPP and other approved construction documents.

These inspections include, but are not limited to, site perimeter protection, inlet protection, vehicle tracking pad, track out, blowing trash and building materials, concrete truck washout, chemicals, and sanitary waste.

These inspections are conducted on all active (developments under construction, not yet released for home building) and non-active (no construction or building activities) sites that have a current Land Disturbance Permit. Though all the active sites are inspected literally every day, all constructions sites within the City will be officially inspected once annually, even the inactive and stalled out sites.

#6. Construction Operator Weekly BMP Site Inspections

Description: According to the MODNR Land Disturbance Permit the Permittee or his/her appointee is required to complete a weekly inspection report of the BMPs and outfalls on their development site. "When practicable, the receiving stream shall also be inspected for 50 feet downstream of the outfall".

All Construction site operators are required to complete these inspections at a minimum once weekly and within 48 hours of a rain fall event of .5" or greater. They are required to retain one copy on site for periodic review and submit a copy to the City of Nixa for record retention.

This BMP will remain in effect throughout the upcoming 2022-2026 permit cycle.

MCM #5 Post Construction Program BMPs

#1. Post-Construction Stormwater Management Ordinance

Description: Develop and implement a Post-Construction Stormwater Management Ordinance. This document is currently in final draft stage. The goal is to have this ordinance completed, reviewed, and passed by council in the first by July 1st, year 5 (2021) of the current permit cycle.

Once implemented this ordinance will address Post-Construction stormwater runoff from new development and redevelopment projects, as well as sanctions and penalties associated with non-compliance, to the extent allowable under State or local law.

#2. Post-Construction Stormwater Management Plan

Description: Develop and implement a Post-Construction Stormwater Management Plan. The goal is to have this ordinance completed, reviewed, and passed by council in the first by July 1st, year 5 (2021) of the current permit cycle. This plan will outline the required periodic inspections of all post-construction stormwater BMPs; create an inventory list; record and track names of the responsible parties of all qualified projects.

#3. Homeowners Association (HOA) Involvement

Description: Develop and implement a program by which members of the City's Homeowners Associations participate in the inspection of the stormwater post-construction BMPs in their neighborhood.

Most of the current completed subdivisions have a homeowner's association in place. However, some are not aware that, short of a catastrophic event, the stormwater infrastructure yearly care, maintenance and repair is their responsibility.

By involving these groups and helping them to understand where their responsibilities and the City responsibilities lie, they will hopefully buy into the program and help with keeping the stormwater that passes through there community cleaner and safer for everyone.

The goal is to implement this BMP early in the 1st year (2022) of the upcoming 2022-2026 permit cycle and continue it thorough out the duration.

MCM #6 Municipal Operations Program BMPs

#1. Municipal Operation and Maintenance (O & M) Plan

Description: This plan is currently in the final draft stage. In year 1 (2022) of the 2022-2026 permit cycle, the City will complete and implement it. This O&M Plan will be evaluated in year 3 (2024) for effectiveness by City staff. In year 5 (2026) this entire plan will be reviewed and updated as result of the information obtained from the evaluation.

This plan outlines requirements that are to be carried out at every municipally owned/operated facility and will affect literally every city employee.

#2. City of Nixa Employee Stormwater Operation & Maintenance (O & M) Plan Committee

Description: This employee committee has been in place for a few years, however, did not meet during 2020 due to Covid restrictions. Our goal is to reconvene in year 5 of the 2017-2021 permit cycle as long as we can safely do so. At the very least we will convene virtually in 2021 and again in year 1 (2022) of the 2022-2026 permit cycle.

This O & M Plan committee is made up entirely of city staff. This committee will review the O & M Plan for alteration and/or revisions prior to finalization and implementation of the Plan. This committee will continue to meet, annually and as needed during the permit cycle to review the Plan for effectiveness and these meetings will also serve as the continuous employee training program for this plan.

#3. Municipal Operation Facilities Inspections

Description: Inspections of City owned & operated public municipal operation facilities. These inspections are completed specifically for the discovery of any Illicit Discharge including any onsite sewage discharge that might be present.

There are currently 54 of these City owned or operated sites that are inspected once annually. After each facility has been inspected a findings report is sent to appropriate city staff to address any stormwater issues that may exist.

This program will continue as outlined throughout the 2022-2026 permit cycle.

#4. Spill Prevention and General Response Plan

Description: The City currently has a plan at the final draft stage and will complete and implement this program in year 1 (2022) of the 2022-2026 permit cycle. This program will help to minimize the impact to water quality through the proper storage, use, and disposal of chemicals and bulk materials throughout the City.

This spill prevention plan will also be a topic of discussion for the Employee Stormwater Committee at least once annually.