

# City of O'Fallon



## Stormwater Annual Report- MS4 NPDES Phase II Permit

June 13, 2016  
Through  
December 31, 2016

This is the annual stormwater report for O'Fallon's Stormwater General Operating Permit MO-RO40039, with an original issue date of April 23, 2003, which provides updates to our current five (5) year SWMP that is in place to implement and maintain the six (6) minimum control measures to ensure full compliance with the permit issuance for Small Municipal Separate Storm Sewer System regulations.

**This report covers the reporting period for June 13, 2016 to December 31, 2016**

## **Part C: SWMP Progress and Compliance**

### **1. Compliance Status:**

- The City of O'Fallon has maintained a positive approach towards compliance with all aspects of the NPDES Phase II Permit requirements since the inception of the program in 2003 and as stated in our most current submitted Stormwater Management Plan (SWMP). We have continued to make improvements and changes to our SWMP, ordinances and policies to make adjustments, trained our employees, educated the public and will continue these efforts to strive to improve the water quality and address water quantity issues in our community. The City of O'Fallon website contains valuable information relating to public education, permit applications, reference guides, and ordinance information. We continue to encourage the general public, builders, developers, etc. to visit the site at <http://www.ofallon.mo.us> and/or contact staff with any questions that they may have.
- We have continued implementation of our five year SWMP for years 2013-2018. This report is a result of our successes and challenges since the program was implemented in 2003. The plan implementation process proposed is a direct reflection of growth in the program and the direction that it will go. A revised/update SWMP will be completed at the end of the permit cycle September 30, 2021.
- This reporting cycle will encompass the dates June 13, 2016 – December 31, 2016 as requested by the Missouri Department of Natural Resources for reporting period December 12, 2016 through September 30, 2021.

### **2. Information regarding progress toward achieving the statutory goal of reducing the discharge of pollutants to the Maximum Extent Practicable to the MS4:**

- Information regarding our progress can be found in the goals and milestone achievements towards compliance can be found in [Appendix A](#).

### **3. If another governmental entity implements any Best Management Practice (BMP) or Minimum Control Measure (MCM), please provide information regarding as follows:**

- A. Name of Government Entity: St. Charles County Government
- Name of Primary Contact for Entity: Ryan Tilley, Division of Health and Protection
- Contact Information: 1650 Boone's Lick, St. Charles, MO 63301  
Phone: 636.949.1800
- Specific BMP(s) or MCM(s): (MCM 3, IDDE): Septic Tank inspection and Compliance

### **4. Summary of any stormwater activities and known construction activities covered under the authority of the MS4 permit that are scheduled to begin during next reporting period:**

- Residential, commercial and municipal development continues throughout City limits. These activities will continue to be monitored via plan review, approval and inspections.

### **5. Provide a list of any changes to the SWMP, BMP(s), measureable goal(s), and iterative process that have occurred during the covered reporting period.**

- There are no changes at this time.

### **6. Provide a list of BMPs that were evaluated during the covered reporting period, and provide information on how the BMP was determined effective.**

- MCM 1: A new erosion and sediment control for small construction sites was created, posted to the City website and is being distributed with permit application approval.
  - MCM 2: Two additional creek clean up events were held with a total of 128 volunteers removing trash from streams throughout the City.
  - MCM 3: Additional mapping to storm sewer system was completed to continue to keep the City storm infrastructure map up-to-date.
  - MCM 6: Annual facility SWPPP inspection reports were submitted by December 31, 2016. No facility violations were noted on any facility.
- a. If any of the BMPs were determined ineffective, provide a summary on how the ineffective BMP was resolved.**
- There were no new determinations for the reporting period of June 13, 2016-December 31, 2016.

7. If any water samples were collected and analyzed during the covered reporting period by the permitted MS4 or on behalf of the permitted MS4, please complete Part D-Water Sample(s) Analysis.

***Listing of Appendices***

- A. Stormwater Management Operation Plan for MCM's 1-6 for 2013-2018 Permit Cycle and SWMP Org Chart

**Appendix A**

**Stormwater Management Operation Plan for MCM's 1-6 for 2013-2018**  
**Permit Cycle and SWMP Org Chart**

Table 1 - MCM 1(Public Education and Outreach) Permit Plan

BMP	Responsible Party	Measurable Goal	Theme or Message	Target Audience	Summary of Planned Activities	Implementation Schedule	%Completed	Milestones 06/13/2016- 12/31/2016
<b>Public Information Via Hard Copy and Internet Media</b>	Stormwater Management- Stormwater Mgmt Coordinator Public Relations-Public Relations Director Communications- Communications Director	Provide printed materials such as brochures, fact sheets, etc. to build awareness of Stormwater and Water Quality locally via hard copy and internet media	1) Stormwater Management Plan 2) Water Quality 3) Stormwater Mgmt Regulations and Permitting 4) Illicit Discharge Detection and Elimination	1) General Public and Employees 2) General Public 3) General Public, Staff, Developers/Builders 4) General Public and Staff 5) General Public	1) Continue creation and distribution of printed materials for distribution 2) Provide articles for newspapers, publications, local cable channel 3) Provide information and links on our City website page	1) Ongoing 2) Ongoing 3) Ongoing	100%	New Erosion/Sediment Control Brochure completed and available via Webpage and handout
<b>Public Education</b>	Stormwater Management- Stormwater Mgmt Coordinator	Environmental Education sessions to inform public about the importance of pollution prevention and its effects	1) Water Quality /Groundwater Recharge 2) Illicit Discharges 3) Litter 4) Yard Waste	Providing stormwater education at schools, community meetings, subdivision meetings, public events	1) K-12 education sessions and activities 2) Subdivision Meetings 3) Community Meetings	Ongoing-minimum twice annually	100%	No new changes from last report submission.
<b>Rain Garden/Rain Barrel/Native Landscaping Workshop</b>	Stormwater Management- Stormwater Mgmt Coordinator Public Relations-Public Relations Director	Increase awareness of stormwater benefit from installation of rain garden, rain barrel or native landscape	1) Stormwater Benefits 2) Ease of installation and attractive aesthetics	General public as well as contractors, builders and developers	Revised 2016-No formal workshops to be held, have found individual education or use at Pubic Events much more effective.	Ongoing-minimum one time per year con't at Public Works Day- "workshop" changed to Education, no formal workshops to be scheduled	100%	No new changes from last report submission.
<b>Educational Signage for Native landscape and Rain Gardens</b>	Stormwater Management- Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Parks Department - Parks and Recreation Director	Installation of educational signage at various native landscape and rain gardens throughout the City limits	Educate public on benefits of installing rain gardens or utilizing native landscape	General Public	1) Concept design for signage 2) investigate grant opportunities for use 3) Request funds for purchase and installation	year end, 2016 pending fund approval	10%	No new changes from last report submission.

Table 2 - MCM 2(Public Participation and Involvement) Permit Plan

BMP	Responsible Party	Measurable Goal	Theme or Message	Target Audience	Estimate of People to Participate	Summary of Planned Activities	Implementation Schedule	%Completed	Milestones 06/13/2016-12/31/2016
<b>Stormwater Advisory Committee</b>	Stormwater Management Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Public Works- Public Works Director Public Works-City Engineer	Build and maintain public participation and involvement as well as raise citizen awareness for water quality	Maintain awareness and get input for water quality, regulations and permit activities or changes, as well as program updates and stormwater improvement	General Public, Businesses, Contractors and Developers	Team Members: *Public Works Director *City Engineer *Asst City Engineer *Stormwater Mgmt Coordinator *Recording Secretary *Street Dept Director *Councilman *10 Commission Members *Water/Sewer Director	1) Regular Public Works Commission Meetings to discuss stormwater program, regulation changes, policy and capital improvement projects	1) Ongoing	100%	No new changes from last report submission.
<b>Public Participation Volunteer Events</b>	Stormwater Management Stormwater Mgmt Coordinator Volunteer Services- Volunteer Services Manager	Increase public awareness to improve water quality and prevent illicit Discharges	Increase public awareness to improve water quality and prevent illicit Discharges	General Public and Businesses	Team Members: *Stormwater Mgmt Coordinator *Volunteer Services Department	1)Continue SWAC (Storm Water Awareness Campaign) by coordinating Storm Drain Marking events with other volunteer events throughout calendar year as done in the past 2) Engineering Dept will make sure markers/pre cast requirements in place prior to escrow release 3) Meet with other municipalities for partnership opportunities 4)Plan workshop details 5) Publicize events via coordination with Public Relations 6) Hold event and evaluate feedback	1)Ongoing-minimum once annually 2) Ongoing-Engineering to continue as in past 3) Complete-Annual partnered creek clean up in spring. 4)Removed-lack of funding and inability to offer PDH/CEU prevents success. 5) Complete-website and newsletter post events 6) Ongoing-minimum once annually	1-100% 2-100% 3-100% 4-Removed 5-100% 6-100%	Two additional events since last reporting in June. Two Creek Clean Up events with 128 volunteers.
<b>Rain Garden Demonstration Project</b>	Stormwater Management Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Public Relations-Public Relations Director	Installation of a demonstration rain garden either at residence or city owned property	Educate public on stormwater quality benefits of installing rain gardens or utilizing native landscape	General Public	Team Members: *Stormwater Mgmt Coordinator *Assistant City Engineer *Volunteer Services Manager *Public Relations Director *Partnership-outside organization *Property owner *Citizen Volunteers	1) Citizen donate area for project or choose city owned parcel 2) investigate grant opportunities for use 3) Request funds for purchase and installation 4) Procure materials 5) Publicize event and encourage volunteer participation whether subdivision or general public 6) visit site annually to evaluate success of plantings and record results by photographic record	1)Begin funding request late 2013 for fiscal year 2014 2) implement installation of at least one rain garden within 5 year permit cycle pending funding approval	100% complete	No new changes from last report submission.

<p><b>Rain Barrel Program</b></p>	<p>Stormwater Management Stormwater Mgmt Coordinator Engineering-Assistant City Engineer</p>	<p>Installation of rain barrels by citizens as a means of stormwater quality and quantity benefits</p>	<p>Educate public on stormwater quality benefits of installing rain barrel</p>	<p>General Public</p>	<p>Team Members: *Stormwater Mgmt Coordinator *Assistant City Engineer *Potential partnership-outside organization *Public Relations Director *Citizen Volunteers</p>	<p>1) Investigate other municipalities rain barrel programs to implement program efficiently 2) Request funds for purchase and installation 3) Investigate partnerships and or grant funding to assist with the program 4) Purchase rain barrels and or procure materials to assemble kits 5) Publicize event and encourage volunteer participation for installation 6) Evaluate success of project by photographic</p>	<p>1)Funds requested in 2012 2)Implementation to begin 2013-14 and continue as ongoing annually</p>	<p>100% complete</p>	<p>No new changes from last report submission.</p>
<p><b>Riparian Corridor Restoration</b></p>	<p>Stormwater Management Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Engineering-Floodplain Administrator Volunteer Services-Volunteer Services Manager</p>	<p>Installation of trees, shrubs and native plants to restore riparian corridor along a local stream to prevent flooding, improve water quality and assist in prevention of creek bank erosion</p>	<p>Educate public on stormwater quality and flood prevention benefits by re-establishing a riparian corridor</p>	<p>General Public</p>	<p>Team Members: *Stormwater Mgmt Coordinator *Assistant City Engineer *Volunteer Services Manager *Public Relations Director *Partnership-outside organization *Property owner *Citizen Volunteers</p>	<p>1) Investigate other municipalities rain barrel programs to implement program efficiently 2) Request funds for purchase and installation 3) Investigate partnerships and or grant funding to assist with the program 5) Purchase rain barrels and or procure materials to assemble kits 4) Publicize event and encourage volunteer participation whether subdivision or general public 5) visit site annually to evaluate success of plantings and record results by photographic record</p>	<p>1) Mid to late 2014 develop plan of action to implement project 2) 2015 implement project 3) Continue as ongoing annually to semi annually after initial project</p>	<p>100% complete (part of all creek projects now)</p>	<p>No new changes from last report submission.</p>

Table 3 - MCM 3(Illicit Discharge Detection and Elimination-IDDE) Permit Plan

BMP	Responsible Party	Measurable Goal	Summary of Planned Activities	Implementation Schedule	%Completed	Milestones 06/13/2016-12/31/2016
<b>Storm Sewer System Mapping</b>	Stormwater Management-Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Planning-GIS Director	Develop and maintain storm system inventory that locates outfalls including detention/retention basins, pipes, ditches, flood control facilities and post construction best management practices	1) Scan all subdivision records on file so that it can be entered onto the existing map system 2) Continue to update the existing map as new development and redevelopment occurs 3) Implement a stream, outfall, discharge pipe, detention/retention inventory and incorporate it in the GIS Mapping system	1) Ongoing 2) Ongoing 3) Implemented in late 2011 and will continue as ongoing through 2013-2017 permit cycle	1-90% 2-90% 3-60%	Scanning continues. Most development plans scanned in and new being added as received. Summer interns great help in getting existing system mapped in field.
<b>Private Sewer Treatment Systems (Septic)</b>	Stormwater Management- Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Sanitary Sewer Dept-Water/Sewer Director St. Charles County Health Department Planning-GIS Director	Develop and maintain a list of address and parcel ID's as available of all private sewer treatment systems and develop a map of on-site sewage disposal systems within the City	1)Perform records search and obtain a list of on-site sewage disposal systems from Board of Health (St Charles Co) 2) Map the location of all known home sewage treatment systems connected to the City's MS4 3) Continue to update the map and list of systems as information becomes available 4) Identify and clean up deteriorating systems (St Charles Co assistance)	1) 2013 2) Late2013 2) 2014 and ongoing from there		Information has been requested from St. Charles County, but not received to date.
<b>IDDE Manual and Screen Outfalls</b>	Stormwater Management- Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Streets-Director	Implement manual procedures that were completed in 2012 to decrease illicit discharges by visual screening of outfalls and discharge pipes throughout City limits	1) Screening has begun in late 2011 and will continue through 2014 for existing development 2) Add new development and make any changes for re-development 3)Implement inspection protocol/schedule	1) Began late 2011 and will continue through 2014 2) Late 2014 and ongoing from there 3) Late 2014 and ongoing from there	1-80%	No new changes from last report submission.
<b>Pet Waste Stations</b>	Stormwater Management-Stormwater Mgmt Coordinator Parks and Recreation-Parks and Recreation Director/Superintendent Public Relations-Public Relations Director	Continue installation of Pet Waste stations to prevent Pet Waste dumping and improve water quality	1) Obtain continued funding to purchase 4 stations per budget year 2) Obtain continued funding to maintain existing pet waste stations 3)Continue to install and maintain at local parks 4) Begin procurement and installation to pedestrian trails	Ongoing	1-100% 2-100% 3-100% 4-90%	No new changes from last report submission.



<p><b>Municipal Recycling Program</b></p>	<p>Public Works-Public Works Director Environmental Services-Environmental Services Director Green Council-Volunteer Members</p>	<p>Continue our single stream recycling program to decrease the amount of waste placed in landfills to improve the quality of the environment</p>	<p>1) Green Council Board-continues to discuss ways to promote and improve recycling efforts and green solutions to increase the health of the environment 2) Environmental Services tracks the amount of recycling that occurs-continue to report information to the public and provide for NPDES reporting</p>	<p>Ongoing</p>	<p>all 100% and ongoing</p>	<p>No new changes from last report submission. Inspectors continue</p>	
<p><b>Stream Water Quality Monitoring</b></p>	<p>Stormwater Management-Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Engineering-Floodplain Administrator Volunteer Services-Volunteer Services Manager</p>	<p>As part of the IDDE Manual/Program implementation, inventory of all discharge pipes and outfalls to the streams are to be visually inspected each year and water quality monitored by testing should a concern for IDDE be present. All inventory along with concerns will be tracked</p>	<p>1) Complete inventory and implement inspection schedule 2) Construction Sites monitored that are adjacent to streams 3) Update Stormwater Website with stream inventory information</p>	<p>1) Inventory has begun as of late 2011 with Stream Order Map in place 2) 2015 initial inspections complete and map added to City Website 3)2015-2016 map available internally, but not public</p>	<p>1-100%</p>	<p>No new changes from last report submission. Inspectors continue</p>	
<p><b>Watershed Management Plan</b></p>	<p>Stormwater Management-Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Engineering-Floodplain Administrator Public Works-City Engineer</p>	<p>Hire a consultant to evaluate the entire watershed(s) and provide hydraulic information, areas of concern, miles of stream, 303(d) impaired streams, etc. to better manage water quality and quantity in City limits</p>	<p>1) Investigate potential for partnership for project 2) Investigate possible grant availability 3) Acquire/Request budget funds to hire consultant</p>	<p>1)Mid 2015 2) Mid 2015 3) Late 2015 for fiscal year 2017</p>	<p>1)remove-unattainable at this time due to lack of funding for all 2) No grant funds available 3) Continue to ask for funding</p>	<p>No new changes from last report submission.</p>	

Table 4 - MCM 4 (Construction Site Runoff) Permit Plan

BMP	Responsible Party	Measurable Goal	Summary of Planned Activities	Implementation Schedule	% Completed	Milestones 06/13/2016- 12/31/2016
<b>Construction Site Inspections</b>	Engineering-Assistant City Engineer Engineering-Sr Construction Inspector Stormwater Management-Stormwater Mgmt Coordinator	Ensure construction sites are inspected to ensure compliance with approved plans and SWPPP	Track the number of construction sites within the City, the number of inspections performed, and the average frequency of inspections.	Ongoing	100%	No new changes from last report submission. Inspections continue.
<b>Site Plan Review Procedures</b>	Engineering-Assistant City Engineer Stormwater Management-Stormwater Mgmt Coordinator	Review the process for pre-construction SWPPP plan review for all residential and commercial projects that disturb one or more acres.	1) Review the existing procedures for site plan review. 2)Track the number of site plans reviewed	Ongoing	100%	No new changes from last report submission.
<b>Construction Site Water Quality Monitoring</b>	Stormwater Management-Stormwater Mgmt Coordinator Engineering-Assistant City Engineer	Implement process and procedures for water quality monitoring on sites that are adjacent to streams	1) Develop process 2) Implement procedures	1)Mid-late 2015 2) 2016 and ongoing after	100%-visual monitoring and protection as part of and emphasized at Pre-Construction Meetings	No new changes from last report submission.
<b>Enforcement Procedures</b>	Stormwater Management-Stormwater Mgmt Coordinator Engineering-Assistant City Engineer	Enforce City Regulations	Enforce City ordinances and state/federal regulations for all construction activity that disturbs one or more acres	Ongoing	100%	No new changes from last report submission.

Table 5 - MCM 5 (Post Construction Site Runoff) Permit Plan

BMP	Responsible Party	Measurable Goal	Summary of Planned Activities	Implementation Schedule	% Completed	Milestones 06/13/2016- 12/31/2016
<b>Ordinance or Other Regulatory Mechanism</b>	Stormwater Management-Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Engineering-Plan Review Engineer Planning-Planning Director	Adopt/revise ordinance addressing stormwater runoff from new development/redevelopment projects disturbing one or more acres	1) Review/Revise current ordinance(s) to include more detailed information for redevelopment projects 2) Educate development community 3) Evaluate periodically for necessary revisions	Ongoing	1-95% 2-100% 3-95%	No new changes from last report submission.
<b>Post-Construction Requirements</b>	Stormwater Management-Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Engineering-Plan Review Engineer Planning-Planning Director	Adopt/revise ordinance that requires post construction stormwater management per MDNR/EPA general construction permit	1) Adopt/Revise ordinance as needed with emphasis on re-development as the City matures 2) Continue to educate development community regarding approved BMP's 3) Continue to evaluate to review and evaluate BMP alternatives	Ongoing	100%	No new changes from last report submission.
<b>Site Plan Review Procedures</b>	Stormwater Management-Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Engineering-Plan Review Engineer	Adopt/revise policy that requires post construction stormwater management per MDNR/EPA general construction permit	1) Review every site plan for post construction requirements 2) Meet with developers and engineers during design process to encourage the use of non structural BMP's/green infrastructure 3) Report the number of sites/plans reviewed	Ongoing	100%	No new changes from last report submission.
<b>Site Inspection Procedures</b>	Stormwater Management-Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Engineering-Sr Construction Inspector	All post construction (structural and non structural) BMPs will be inspected prior to acceptance of the project by the City to ensure BMPs are installed and functioning properly	1) Develop an inspection schedule for structural and non structural BMPs 2) Report the number of sites inspected, number of inspections performed, and average frequency of inspections	Ongoing	90%	No new changes from last report submission.
<b>Long-Term O&amp;M Plans/Agreements</b>	Stormwater Management-Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Engineering-Plan Review Engineer	All sites will have an O&M plan	1) Adopt requirement for all projects to have an operations and maintenance plan identifying responsibility for private BMP O&M 2) report the number of sites with agreements	1) Completed 2008, under legal review again 2011 2) Ongoing	1-100%	No new changes from last report submission.

Table 6 - MCM 6 (Pollution Prevention/Good Housekeeping for Municipal Operations) Permit Plan

BMP	Responsible Party	Measurable Goal	Summary of Planned Activities	Implementation Schedule	% Completed	Milestones 06/13/2016-12/31/2016
<b>Employee Training</b>	Stormwater Management-Stormwater Mgmt Coordinator Public Works-Public Works Director Public Works-City Engineer Engineering-Assistant City Engineer Street Dept-Street Dept Director Parks and Recreation-Parks Director/Parks Superintendent Water/Sewer-Water/Sewer Director Administrative Services-Facilities Manager Administrative Services-Fleet Maintenance Manager Environmental Services-Environmental Services Director	Train key staff on issues related to MS4 permit in general, possible emphasis on MCM 3 and 6	1) Implement Guidance Manual 2) Conduct in-house training of appropriate staff	Ongoing	100%	No new changes from last report submission.
<b>MS4 Maintenance</b>	Street Department-Street Dept Director Stormwater Management-Stormwater Management Coordinator	Maintain ongoing schedule for MS4 maintenance	1) Develop schedule for inspecting and cleaning storm infrastructure 2) Summarize maintenance activities in annual report	Ongoing	85%	No new changes from last report submission.
<b>Road Salt</b>	Street Department-Street Dept Director Stormwater Management-Stormwater Mgmt Coordinator	Properly apply salt in a way that minimizes over-usage	1) Document existing street deicing procedures 2) Document tons of salt used each year 3) Develop procedures for reducing salt use	Ongoing		No new changes from last report submission.
<b>Disposal of Wastes</b>	Stormwater Management-Stormwater Mgmt Coordinator Public Works-Public Works Director Public Works-City Engineer Engineering-Assistant City Engineer Street Dept-Street Dept Director Parks and Recreation-Parks Director/Parks Superintendent Water/Sewer-Water/Sewer Director Administrative Services-Facilities Manager Administrative Services-Fleet Maintenance Manager Environmental Services-Environmental Services Director	Properly manage and dispose of wastes	1) Develop procedures for proper waste disposal	Ongoing		No new changes from last report submission. Inspectitons continue
<b>MS4 Funding Mechanism</b>	Stormwater Management-Stormwater Mgmt Coordinator Engineering-Assistant City Engineer Engineering-Plan Review Engineer Public Works-Public Works Director Public Works-City Engineer	Evaluate and recommend/revise funding mechanism to support program requirements as required by EPA	1) Investigate different types of funding mechanisms 2) Develop mechanism 3) Present alternative funding mechanism ideas to public and City Council	** Current Parks/SW Sales Tax 1/2 cent 1) 2014 2) 2015 3) 2018		No new changes from last report submission.