

105 West Capitol Avenue P.O. Box 270 Jefferson City, Missouri 65102

1.888.ASK MODOT (275.6636)

Missouri Department of Transportation

Patrick K. McKenna, Director

January 12, 2018

Mr. Michael Abbott Missouri Department of Natural Resources Water Protection Program P.O. Box 176 Jefferson City, Missouri 65102

Dear Mr. Abbott:

Subject:

Design – Environmental Section

State Operating Permit MO-0137910

TS4 Annual Report

Enclosed is MoDOT's annual report for permit MO-0137910 as required under Part B of the MS4 Stormwater Management Plan (SWMP) Report form 780-1846. The updated SWMP was sent to the department on October 16, 2017. MoDOT received approval on March 9, 2017 that its "No Additional Controls Demonstration for Total Maximum Daily Load Attainment" was appropriate and this annual report continues to support that demonstration.

If you have any questions about the report, please do not hesitate to call me at (573) 526-6676 or Melissa Scheperle at (573) 526-6684.

Sincerely,

Gayle Unruh

Dayle Urouh

Environmental and Historic Preservation Manager



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MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) – STORMWATER MANAGEMENT PLAN (SWMP) REPORT

FOR OFFICE USE ONLY	
PROJECT ID NUMBER	
DATE RECEIVED	

Part A – MS4 PERMIT HOLDER INFORMATION								
1. MS4 NAME	2. NPDES PERMIT NUMBER	3. MS4 UNIC	QUE ID NO. (Used with E-Reporting)					
Missouri Department of Transportation	MO0137910	İ						
4. ADDRESS	5. CITY	6. STATE	7. ZIP CODE					
	Jefferson City	МО	65101					
601 West Main	9. EMAIL	1110	100,101					
6. TELEPHONE NUMBER WITH AREA CODE								
73-526-6684 Melissa.scheperle@modot.mo.gov								
10. NAME OF MS4 CONTACT PERSON								
Melissa A. Scheperle								
11. Has any areas of the MS4 been added or remove most recent permit application (renewal, new, modification as an attachment. YES : NO :	ed from the MS4 jurisdiction due to anr ation), or most recent MS4 SWMP rep	nexation or other le ort? If yes, please	gal means since the include a map along					
Part B – REPORTING PERIOD								
1. Is your MS4 subject to a TMDL? YES ⊠; NO □								
If yes, you are required to submit the MS4 report annubeginning date will be June 13, 2016, and the ending reporting period of January 1 st to December 31 st each	date will be December 31, 2016. All of							
2. Is your MS4 new permitted (i.e., is this your first M YES ☐; NO ☒	S4 permit)?							
If yes, you are required to submit the MS4 SWMP Re period, the beginning date will be the date of issuance reports shall cover the reporting period of January 1 st	e of the permit and the ending date wi	ary 28 th each year. Il be December 31,	For the first reporting 2016. All other annual					
3. Is your MS4 a previously permitted MS4 and not s YES □; NO ☑	subject to a TMDL?	<u> </u>						
If yes, you are required to submit the MS4 SWMP Re odd year. The first report will be due February 2017, All other reports shall cover the reporting period of Ja	and will cover the reporting period fro	m June 13, 2016, t	o December 31, 2016.					
If you are part of a co-permitted MS4 permit, subn have annual reporting based on the above criteria, th								
IF you are part of a co-permitted MS4 permit and do submit their MS4 SWMP Report based on the above		oorts, then each M	S4 co-permittee will					
5. Reporting Period:								
BEGINNING: January 2017	ENDING:	December 20	17					
MO 780-1846 (08-16)								

Part C – SWMP PROGRESS AND COMPLIANCE									
As an attachment, please provide information for each of the items below. Provide informative data, success stories, and experiences that support the successful implementation of your SWMP.									
Describe the status of compliance with permit conditions for the permitted MS4.									
 Provide information regarding the Maximum Extent Practicable to the 	Provide information regarding the progress toward achieving the statutory goal of reducing the discharge of pollutants to the Maximum Extent Practicable to the MS4.								
 If another governmental entity im provide the following: 		agement Practice (BMP)	or Minimum Control Meas	sure (MCM), please					
 b. Name of the primar c. Contact information 	 a. Name of the government entity; b. Name of the primary contact for the government entity; c. Contact information (i.e., address, city, ZIP Code, State, and phone number); and d. Specific BMP(s) or MCM(s) being implemented by the government entity. 								
(It is the responsibility of the permittee implemented by another governmenta the MCM rather than each BMP unde	e to provide all informat al entity. If a complete i	ion under this report regar	dless if BMP(s) or MCM(s) are being itity, then only indicated					
 Provide a summary of any storm, MS4 permit that are scheduled to 	water activities and known begin during the next r	wn construction activities feporting period.	that will be covered under	r the authority of the					
Provide a description of any char during the covered reporting perio	iges to the SWMP, BMF od.	P(s), measurable goal(s),	and the iterative process	that have occurred					
Provide a list of BMPs that were of determined effective.									
a. If any of the BMPs	were determined ineffe	ctive, provide a summary	on how the ineffective BN	1P was resolved.					
7. If any water samples were collect			riod by the permitted MS4	4 or on behalf of the					
permitted MS4, please complete	Part D – Water Sample	(s) Analysis.							
Part D – WATER SAMPLE(S) ANAL	YSIS	,							
PARAMETER OR INDICATOR	FREQUENCY	RESULT	DRY WEATHER SAMPLE?	WET WEATHER SAMPLE?					
			YES []; NO [YES []; NO []					
	Are desired to the second seco		YES □; NO □	YES ☐; NO ☐					
			YES □; NO □	YES 🗌; NO 🔲					
	NAME OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE		YES □; NO □	YES □; NO □					
			YES □; NO □	YES □; NO □					
			YES □; NO □	YES □; NO □					
			YES []; NO []	YES □; NO □					
			YES □; NO □	YES 🗌; NO 🔲					
Are any of the parameters above Load? If yes, please indicate the par		ne MS4 being subject to a	n established or approved	d Total Maximum Daily					
YES □; NO 🏻									
2. Does the data support Water Qua	lity attainment or suppo	rt trend data toward Wate	r Quality attainment? If ye	es, please describe.					
YES :; NO :									
NA									

MO 780-1846 (08-16)	
Part E - TOTAL MAXIMUM DAILY LOAD (TMDL) ASSUMPTIONS AND REQU	IREMENTS ATTAINMENT PLAN (ARAP)
1. Is your MS4 subject to an established or approved TMDL? If no, please indic of the TMDL ARAP portion of this report.	ate "No" below and do not complete any other portion
YES ⊠; NO □	
2. Has your TMDL ARAP been completed and submitted? If no, please provide submitting and implementing the TMDL ARAP.	a summary as an attachment on the progress toward
YES ⊠; NO □	
3. Has your TMDL ARAP received approval from the Department? If yes, pleasinclude implementation status of identified BMPs and measurable goals along wiapplicable)	
YES ⊠; NO □	
4. Does the TMDL ARAP incorporate Integrated Planning? If yes, please provide	e a summary of the status of the Integrated Plan.
YES □; NO ⊠	
PART F – SUBMIT REPORT TO:	
Missouri Department of Natural Resources Water Protection Program MS4 Program Coordinator P.O. Box 176 Jefferson City, MO 65102-0176	
PART G - CERTIFICATION	
I certify under penalty of law this document and all attachments were prepared us system designated to ensure qualified personnel properly gather and evaluated to person or persons who manage the system, or those persons directly responsible submitted, is to the best of my knowledge and belief, true, accurate and complete submitting false information, including the possibility of fine and imprisonment for	the information submitted. Based on my inquiry of the e for gathering the information, the information e. I am aware there are significant penalties for
SIGNATURE OR PERMITTEE (LEGALLY RESPONSIBLE PERSON) Sayle Unruh	DATE SIGNED 1/12/18
NAME (PRINTED OR TYPED)	TITLE
Gayle Unruh	Environmental and Historic Preservation Manager
MO 780-1846 (08-16)	

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2017 Annual Report

Missouri Department of Transportation



INTRODUCTION

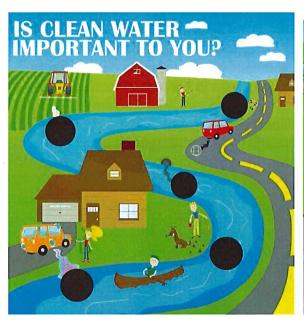
The Missouri Department of Transportation (MoDOT) submitted a revised Storm Water Management Plan (SWMP) in October 2017. This annual report outlines the implementation status of each control measure, measurable goals, and a summary of activities that were achieved in the 2017 reporting cycle for each of the measures.

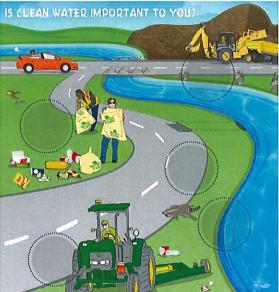
Public Education and Outreach
Public Involvement and Participation
Illicit Discharge Detection and Elimination
Construction Site Runoff Control
Post-Construction Site Runoff Control
Pollution Prevention/Good House Keeping

Measure 1: Public Education and Outreach

Action: MoDOT will educate the general public and MoDOT community on storm water issues primarily related to sediment and litter as it relates to the state's highway system through public meetings, public events, website, email and use of media and materials. MoDOT will continue the same level of effort to reach as many persons as in the previous year through all of the above mechanisms, and will use outreach tools to explain storm water quality issues.

A general modification to the bean bag toss was done in 2017 changing the picture on the game to one more focused on MoDOT activities and incorporating diversity into the picture.





Measurable Goal - MoDOT will track how many <u>external</u> visitors have used our storm water webpage (<u>www.modot.org/stormwater</u>) and content on the webpage each year and continually update the page with the best available information on MoDOT's role as a TS4.

- ⇒ The Stormwater webpage had 308 unique visitors during this permit year (2017). http://www.modot.org/stormwater/.
- ⇒ From this webpage:
 - The stormwater concern form was viewed 243 unique times.
 - The stormwater brochure was viewed 0 unique times.
 - The stormwater snow removal fact sheet was viewed 0 unique times.
 - The Permit was viewed 0 unique times.
 - The SWMP was viewed 0 unique times.

Measurable Goal – MoDOT will track use of its stormwater email (stormwater@modot.mo.gov).

⇒ The stormwater email address received 2 emails during the reporting timeframe. stormwater@modot.mo.gov.

Measurable Goal - MoDOT will track how many visitors have used/submitted the Report a Stormwater Concern form and how many of those were related to permit measures.

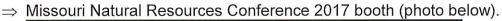
⇒ There were 62 forms submitted in the reporting cycle. Of those, 20 were applicable to IDDE measure.

Measurable Goal - MoDOT will track how many stormwater brochures are disseminated each year in each district.

⇒ The brochure is on the stormwater webpage and also available at public meetings. Approximately 150 hard copies were distributed in 2017 in NE and NW.

Measurable Goal – MoDOT will track and report on education components related to litter prevention through its participation in No More Trash events statewide and other media outlets.

⇒ The April 2017 No More Trash! Bash campaign had 114 educations events around the state with 43,000 bags of trash picked up.





- ⇒ Signage is used to communicate with the general public. There are 654 No More Trash signs in place across the state. These are primarily used in roadside parks, rest areas, welcome centers, truck parking areas, commuter lots and areas of targeted issues. There are 80 Littering signs across the state. There are 24 No Dumping signs across the state. There are used for targeted location issues. The signage numbers remain stable from year to year since signs can last 10-15 years.
- ⇒ Missouri State Fair 2017 and Earth Day. The stormwater bean bag toss was run all 7 days of the fair.

Measurable Goal - MoDOT will continue to participate in events such as Earth Day and the State Fair. MoDOT will track participation in these events.

⇒ Earth Day at the State Capitol and the Missouri State Fair were attended in 2017 employing the bean bag toss and litter pledge.

Measure 2: Public Involvement and Participation

Action: Through the above mechanisms, MoDOT will collect and respond to public comments and concerns on water quality issues related to storm water management as it relates to expansion or operation and maintenance of the state's highway system.

Measurable Goal: MoDOT will report how many individuals are involved in programs MoDOT offers related to the TS4 permit including events like No More Trash Bash, Trees for Tomorrow, adopt a highway and sponsor a highway programs.

- ⇒ Adopt-A-Highway program. Volunteers pick up litter a minimum of four times a year. There are 5,273 volunteer groups who cover 6,549 miles of roadway.
- ⇒ Sponsor-A-Highway program. Approximately 66 miles of roadway are sponsored.
- ⇒ "Trees for Tomorrow" program. 2014-2019. MoDOT committed to purchasing up to 250,000 seedlings each year, over a five-year period and MDC distributes the trees to youth groups throughout the state. Total seedlings purchased in 2017 amounted to 282,280.
- ⇒ No More Trash Bash. There were 114 educational events and 43,000 bags of trash collected.

Action: MoDOT will continue a program to facilitate the public reporting of illicit discharges, including dumping, by providing a venue for the public to submit concerns to MoDOT.

Measurable Goals: MoDOT will report yearly how many visitors have submitted the Report a Stormwater Concern form and how many of those were related to permit components on MoDOT right-of-way or facilities.

⇒ Report a Stormwater Concern (See Measure 1 for numbers).

Measurable Goal: Additionally, MoDOT will report how many reports came from internal personnel or other methods.

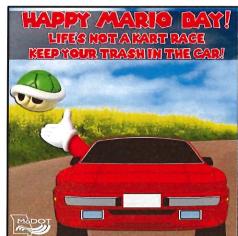
⇒ Internal reports (See Measure 3 for numbers).

Action: MoDOT will continue to promote public awareness campaigns through the website and other media outlets.

Measurable Goal: MoDOT will report annually how many of these types of events were carried out.

- ⇒ Facebook posts on 1/30, 3/10 (see inset), 4/1, 4/13, 4/20, 4/22, 7/13, 7/21, 11/29, and 12/30.
- \Rightarrow Express Lane publication on 4/13, 4/27, 11/22, and 12/7.
- ⇒ News Releases on 4/10, 4/20, 5/4, and 7/14.
- ⇒ MoDOT Connections on 4/20, and 5/4.
- \Rightarrow MoDOT NOW on 4/12.
- ⇒ Beanbag Toss on Earth Day and the State Fair.

Measurable Goal: MoDOT will report how many times it used media to promote awareness of stormwater issues.



⇒ MoDOT used media in at least 23 separate times to promote awareness of stormwater issues.

Action: MoDOT will continue to participate in watershed activities and coordination with other MS4 communities when appropriate including the Hinkson Creek Collaborative Adaptive Management (CAM) -Action Team.

Measurable Goal - MoDOT will report annually how many times MoDOT collaborated with other MS4s.

- ⇒ MoDOT staff attended three MS4 MDNR-sponsored workshops (Springfield, Lee's Summit and Kirksville).
- ⇒ Hinkson Creek Collaborative Adaptive Management MoDOT is an on-going participant on the Action Committee. The action committee meets monthly.
- ⇒ General Conferences for Outreach:
 - IECA Great Rivers Chapter 2017 fall conference.
 - Missouri Water Seminar 2017.
- ⇒ MSD SWMP Planning Committee Meeting, March 2, 2017.
- ⇒ MoDOT held a meeting in April regarding the draft SWMP and invited stakeholders to participate. Cities of Kansas City, Springfield, Columbia, Boone County and MSD attended.

Measure 3: Illicit Discharge Detection and Elimination (IDDE)

Action: MoDOT will continue a program to facilitate the public reporting of illicit discharges, including dumping, by providing a venue for the public to submit concerns to MoDOT and then forwarding confirmed instances to the proper authorities. Hazardous material spills will be reported within 24 hours upon discovery and will be made to the Missouri Department of Natural Resources (MDNR) Environmental Emergency Response (EER) – 573-634-2436 – in accordance with MoDOT procedures and Missouri RSMo 260.500 through 260.555.

Measurable Goal: MoDOT will report how many illicit discharge reports are received and investigated using information obtained through the website reporting form and by MoDOT staff.

⇒ MoDOT investigated a total of 90 instances of reports of illicit discharges, stormwater concerns, drainage issues, and/or illegal dumping; a majority of which were received through the website links (see Measure 1) and another 18 were through contacts with our Hazardous Waste specialists, other internal employees or other reports (MDNR/MSD/etc.).

Measurable Goal: MoDOT will report how many spills on right of way were reported to MDNR's EER System, including vehicular accidents. Cleanup is generally directed by MDNR, MoDOT, or Highway Patrol.

⇒ Approximately 168 spills were also reported on MoDOT ROW, as reported to MDNR's EER system, including vehicular accidents. Vehicular accidents were included because it is impossible to determine from the EER reports whether the spill reached a waterway. Cleanup is generally directed by MDNR, MoDOT, private entity or Highway Patrol.

Action: MoDOT will educate and cross-train maintenance staff to assist with identification of illicit discharges on MoDOT right of way.

Measurable Goal: MoDOT will report how many staff was educated on identification of illicit discharges that discharge into the MoDOT drainage system at least once annually through regular training or the refresher training.

- ⇒ A total of 140 employees were trained in the IDDE online training.
- ⇒ A total of 169 employees were trained in the IDDE refresher training.

Action: MoDOT will continually inspect, through daily work and routine maintenance, the outfalls on MoDOT's system.

Measurable Goal: MoDOT will report how many bridges/outfalls have been inspected annually.

- ⇒ MoDOT inspected a total of 925 outfalls in 2017. There were 42 outfalls that failed inspection due to smell, color and flow.
- ⇒ 2 outfalls reported to MSD's call line on 8/1/17 and 4/6/17 for sewer odor and flow issues.

Measure 4: Construction Site Runoff Control

Action: Continue training of MoDOT personnel through an annual Consent Decree training and Erosion and Sediment Control Training. MoDOT continues to conduct annual training of its design, construction and maintenance employees and contractors and consultants to ensure implementation of the SWPPP and compliance with the Land Disturbance permit.

- ⇒ MoDOT has training material (2014 Land Disturbance Refresher Course as well as the 2012 Land Disturbance Full Course) posted in three locations for ease of use to employees and contractor/consultants. The 2014 Land Disturbance Full Course is available in these same locations as well.
 - EPG: 806.8 Storm Water Pollution Prevention Plan (SWPPP) - In the box on the right, under "Additional Information".
 - Construction and Materials (CM) Intranet, under "Erosion Control".
 - MoDOT Internet: http://www.modot.org/business/contractor resources/LandDisturbance items as a resource for contractors and consultants.

Measurable Goal: MoDOT will report how many MoDOT employees and how many non-MoDOT employees have taken the training classes.

- ⇒ MoDOT conducted 25 training sessions in which a total of 1,002 MoDOT employees were trained in construction erosion and sediment control techniques and practices and the stormwater consent decree.
- ⇒ Additionally, 360 individuals from contracting or consulting firms, FHWA and some city and county officials attended MoDOT's training.

Action: Perform statewide audits of construction sites to ensure that specifications and SWPPP are being followed. In addition to site inspections conducted weekly and following significant rainfall events, MoDOT continues to conduct quality control audits of each project covered by the Land Disturbance permit. These audits are generally conducted at a minimum once a year per construction site to ensure consistent inspections and implementation of the SWPPP.

Measurable Goal: Evaluate erosion control elements of 90% of all land disturbance sites that involve 1 acre or more of land disturbance and report how many were done annually.

⇒ MoDOT conducted 82 audits on 88 construction sites that were subject to Land Disturbance permit requirements (statewide).

Action: Continue Contractor Performance Rating System for project to measure or recognize contractors' outstanding performance as well as those being disciplined for less than satisfactory performance. Disciplinary action results from unacceptable rating in the categories of quality, prosecution & progress, contract compliance, and overall. The contractor performance questionnaire (see attached) includes a section of six questions related to Section 800, Roadside Development to rate the contractor on items such as seeding, erosion inspection reports, correction of deficiencies within the 7-day requirement, etc. For more information refer to <u>EPG 102.2</u>

Measurable Goal: Utilize the existing performance rating system to notify contractors when erosion control elements of the project are less than desirable as determined by elements of the SWPPP yearly per project. A numeric goal is not desirable for this action due to the sensitive nature of the process of evaluating contractors. From EPG 102.2.1-The reporting period for the annual performance project evaluation is the calendar year, January 1 through December 31 with the report for each active project due on February 1 of the following year. Final reports on projects completed during the calendar year are due 30 days after project acceptance. From EPG 102.2.7-The resident engineer must discuss performance with the contractor. If performance deficiencies exist, the contractor needs the time during the remainder of the season to provide the opportunity to improve their ratings for the year. The department does not want a contractor disciplined at the end of a construction season without assurances efforts were made to timely communicate any poor performance. It is not MoDOT's intent or desire to disqualify contractors but we must insist on quality construction and timely completion of projects.

Action: MoDOT will continue to advance personnel knowledge of state of the art practices and policies by attending events and conferences.

Measurable Goal: At least one annually.

⇒ Three MoDOT personnel attended the IECA Great River Chapter Conference in Kansas City in October 2017.

Measure 5: Post-Construction Site Runoff Control

Action: Create a Stormwater Team to assist in development of policy regarding post-construction bmps and other MCMs. MoDOT's stormwater team is made up of construction, maintenance, design, and environmental personnel to assist in development of policies.

Measurable Goal: Report policy changes or additions in the reporting cycle.

⇒ The public involvement portion required in the permit was added to the EPG.

Action: Train MoDOT personnel to consider post-construction BMPs where required by policy definitions of new development and redevelopment in the STIP process. Proceed through the process of tracking and officially inspecting permanent BMPs on an every other year basis. They are inspected regularly during routine maintenance activities.

Measurable Goal: Report how many projects were evaluated in the reporting cycle. An particular project may have multiple RES's that have the same response.

- ⇒ In 2017, staff reviewed 1,008 individual RES's.
 - o 396 of those were in regulated TS4 areas.
 - 0 of those were potentially new development
 - 114 of those were potentially redevelopment
 - 276 of those were maintenance
 - 6 of those needed more information for a decision

Measurable Goal: The number of post-construction bmps constructed during the reporting cycle.

- ⇒ In 2017 MoDOT constructed 6 BMPs within the TS4 area.
 - Bioretention under job no. 5S3092 (Boone County, Old 63 and Stadium Blvd) that the City of Columbia will maintain and inspect.
 - Grassy swales under job no. 1P3035 (Buchanan County) that will not be inspected.
 - Basin under job no. 6S3100 (St. Charles County at Hawks Ridge Trail and Route N).
 - Focal Point system under job no. 5P0820D (Cole County, Route 50 at Lafayette Interchange).
 - Large flat, bottomed ditches under job no. 4P2233 (Jackson County, Blackwell Road) that will not be inspected.

Measurable Goal: How many BMPs are inspected during the reporting cycle and if any fail inspection.

- ⇒ All were inspected in 2016 and the typical routine is once per permit cycle or at the most, every other year.
- ⇒ 6 BMPs in St. Louis were re-worked after 2016 inspections.

Measureable Goal: Train design staff at least every other year and report how many where trained in the reporting cycle.

⇒ Staff were trained in 2016 and will be trained again in 2018.

Action: MoDOT's system crosses other regulated MS4s. Coordination and partnering with other MS4 communities provides opportunties to work together to facilitate compliance with like goals.

Measureable Goal: MoDOT will report what types and how many coordination events are occurring.

- ⇒ MoDOT has been in contact with the following MS4s during this reporting cycle:
 - City of Kansas City Good Housekeeping Inspections by city staff.
 - City of Columbia Hinkson CAM meetings.
 - City of Springfield Good Housekeeping tour and runoff issues.
 - Metropolitan St. Louis Sewer District outfall IDDE reporting and SWMP drafts.
 - City of Arnold desire to share outfall information.

Measure 6: Pollution Prevention/Good House Keeping

Action: Continue to educate maintenance staff and MoDOT general staff on SPCC and NEPA. Evaluate the effectiveness of housekeeping activities and identify those processes and/or procedures that are impacting waters of the state using semi-annual inspections of all MoDOT facilities to assess compliance.

Measurable Goal: SPCC, IDDE, MCM6, and various other trainings at least every other year.

- ⇒ Winter Operations Training November 2, 2017. This training focuses on a refresher for personnel who operate snow plows and other winter equipment. Any new policies or guidance on salt, sand or brine applications are reviewed.
- ⇒ SPCC Training
 - A total of 474 maintenance and 20 non-maintenance employees were trained in SPCC Spill Drill.
 - A total of 697 maintenance and 19 non-maintenance employees were trained in Spill Drill refresher training.
- ⇒ IDDE Training
 - A total of 74 maintenance and 66 non-maintenance employees were trained in the IDDE online training.
 - A total of 94 maintenance and 75 non-maintenance employees were trained in the IDDE refresher training.
- ⇒ Good Housekeeping Training

- A total of 3 maintenance and 2 non-maintenance employees were trained in the Good Housekeeping training.
- ⇒ FRCP inspections
 - All facilities (Table 1) that have FRCPs were inspected in 2017.

Action: Continue dialogue with the Environmental Steering Committee (ESC) to evaluate the effectiveness of housekeeping processes and procedures. Formed in 2007, the ESC continues to meet quarterly. The ESC discusses storm water issues as they come up for the department. The ESC has additionally provided guidance on issues concerning compliance with the consent decree with EPA and DOJ action regarding NOVs, and wastewater facility permits and compliance. Ongoing inspections of maintenance facilities found that not only storm water control has improved but all aspects of environmental compliance over the last several inspection cycles. Under direction of the ESC, MoDOT will continue to evaluate existing maintenance operation policies that have potential to impact water quality. Many of the implemented and proposed changes in MoDOT's winter operations have had, or may have, a positive impact on water quality:

Measurable Goal: Document how many times and what topics regarding the TS4 are discussed at the quarterly ESC meetings.

⇒ There were two meetings in 2017 of the ESC. Various topics were discussed concerning this MCM including updating our Being Green website (http://modot.mo.gov/beinggreen/) and discussing erosion and sediment control items under our Consent Decree.



Action: MoDOT uses chemicals and abrasives during winter operations to facilitate the safe travel of motorists using state roads. Depending on the type of event, MoDOT uses its Winter Operations Manual to dictate methods of snow and ice removal.

Measurable Goal: Report materials used for winter operations.

- ⇒ Beet Juice usage: In October 2016 to March 2017 MoDOT used 505,746 gallons of Beet Juice.
- ⇒ Salt Usage (statewide totals October 2016 to March 2017):
 - Calcium chloride, dry flake and pellet 497,867 lbs and 164,081 lbs, respectively
 - o Liquid calcium chloride 82,089 gallons
 - o Salt brine 2,908,066 gallon
 - o Salt, sodium chloride 95,715 tons
- ⇒ Other types of materials include aggregate chips, aggregate sand, etc. October 2016 to March 2017.
 - o Aggregate sand 26,892 tons
 - o Aggregate clean cinders 6,089 tons
 - o Aggregate limestone chips 9,813 tons
 - Aggregate snow & ice abrasives 14,617 tons

Action: Develop and test new housekeeping processes and procedures to add to current available resources and techniques including ways to minimize or prevent the spread of exotic/invasive plants, or pollutants.

Measurable Goal: Report any new processes' or procedures that are adopted.

⇒ WeedSeeker spot spray system was purchased in Central District for trial to efficiently control weeds. The system senses a weed by targeting the chlorophyll in the plant and delivers a precise amount of chemical – spraying only the weed and not bare ground. Some of the benefits of the system are reduced herbicide costs, reduced herbicide resistance potential, reduced drift, and reduced chemical load on the environment.

Action: Bridge cleaning and flushing are used to remove de-icing chemicals from the bridge deck, drains, expansion device drains, piers, abutments, and lower truss chords; thereby prolonging the life of the structure. Bridge cleaning activities use dry methods and equipment (scraping, sweeping, and vacuuming), to prevent debris, sediment, and other substances from entering waters of the State. Bridge flushing and cleaning shall adhere to the process and procedures outlined in the EPG 771.2 and the beneficial use requirements outlined in EPG 771.2.

Measurable Goal: MoDOT will ensure the appropriate BMPs are being implemented prior to and during such activities and report approximately how many bridges are flushed/cleaned in a reporting cycle.

 \Rightarrow 8,146 bridges flushed/cleaned in 2017.

	NAME	DISTRICT	COUNTY_NAM	TYPE Commuter	TEXT_DIREC	Adjacent MS4 Operator	Name of Receiving Wa Body
1	ST. JOSEPH COMMUTER LOT	- 1	BUCHANAN	Lot		Ot 1	T/1 C 1 C 1
					IS 29 AND US 169 (S)	St Joseph	Trib. Candy Creek
2	ST JOSEPH	1	BUCHANAN	Shed	1/4 mile East of I-29 at the South US 169 exit	St. Joseph	Trib. Candy Creek
•	et lecentinistriot error		BUGUANAN			20.0	Law year was
	ST. JOSEPH DISTRICT OFFICE		BUCHANAN		3602 N. Belt hwy	St Joseph	Trib. Missouri River
4	HANNIBAL COMPLEX	2	MARION	Complex	US 61 S, 1 Mile south of Rt MM 1.2 miles	Hannibal	Trib. Bear Creek
_	LEES SUMMIT DISTRICT				Exit 10A from IS-470 S turn right, turn right on first road		
5	COMPLEX	3	JACKSON	Complex	right 1 mile up Independence Ave, Shed on right	Lee's Summit	Trib. Unity Lake #2
							Kansas City sewer syst
6	18TH AND INDIANA	3	JACKSON	Shed	18TH AND INDIANA (Motorist Assist)	Kansas City UA	to treatment facility
					West Outer road South of US 71 and south of MO 58		·
7	BELTON	3	CASS	Shed	interchange	Kansas City UA	East Creek
8	INDEPENDENCE	3	JACKSON	Shed	West Outer Rd of MO 291 1/2 mile N of US 24	Kansas City UA	Trib. Mill Creek
9	LEES SUMMIT STROTHER RD		JACKSON	Shed	West of 291 and south of Strother Rd	Lee's Summit	Trib. Lakewood Lakes
				Onou	Proof of 251 and south of Orother 11d	Lee a Guillitt	
10	MARSHALL	2	SALINE	Shed	25		Trib. North Fork Finney
10	WINDINEL	3	SALINE	oned	.25 miles West of Hwy 65 on Hwy 20	Marshall	Creek
	MI DEDOV						Kansas City sewer syste
11	MULBERRY	3	JACKSON	Shed	650 Mulberry St, Kansas City	Kansas City UA	to treatment facility
					take Riverside exit to 69 go left to Rt AA then left, building		
	NORTHMOOR		PLATTE	Shed	on westside of road	Kansas City UA	Line Creek
	SEDALIA	3	PETTIS	Shed	2200 South Limit, off 65 South by Mo State Fairgrounds	Sedalia	Trib. Flat Creek
14	SKILES	3	CLAY	Shed		Kansas City UA	Trib. Missouri River
					SE outer rd of I-70 and Blue Ridge Cutoff Behind Holiday		The state of the s
15	STADIUM	3	JACKSON	Shed	Inn	Kansas City UA	Little Blue River
-	JEFFERSON CITY DISTRICT			-1104		Tulibas Oily OA	FIRE DIRE LAKEL
16	COMPLEX		COLE	Complex	DISTRICT 5 COMPLEX	Lofforcon City	Monra Crast
,0	John LLA	4	JULL	Complex	Paris Rd - Rt B North of US 63 1/4 miles north, on the	Jefferson City	Wears Creek
17	COLUMBIA		DOONE	01 - 1		2.7 %	
-17	COLUMBIA	4	BOONE	Shed	northside of the road	Columbia	Trib. Hinkson Creek
					.2 off US 54, Rt F exit Over overhead to 1st st on left, 1st		
	FULTON		CALLAWAY	Shed	on drive rt	Fulton	Trib. Stinson Creek
19	JEFFERSON CITY	4	COLE	Shed	Off Big Horn and 50 West next to CDL site	Jefferson City	Trib. Binder Lake
					Off 127 exit. From LP44(Elm St) across from Case knife		
20	LEBANON	4	LACLEDE	Shed	Outlet	Lebanon	Trib. Goodwin Hollow
21	BALLAS		ST. LOUIS	Shed	Northeast corner of I-64/40 & Ballas road (Call Ahead)	Town & Country-MSD	
					1/2 mile S of 270 off 367. Turn off S367 to R go up hill by	Total & Country-Wood	IIID. Deel Creek
22	BELLEFONTAINE	6	ST. LOUIS	Shed	CDL site	01 1 114	THE MET COLUMN
~~	BELLEI ONIAINE	3	31. LOUIS	Siled		St Louis UA	Trib. Maline Creek
22	BROADWAY	-	OT LOUIS OUT	01 - 1	from 55 take Park Ave or 7th street exit turn east on Park		
			ST. LOUIS CITY	Shed	take it to Broadway go north 2 blocks	St. Louis UA	
24	CEDAR HILL	5	JEFFERSON	Shed		St. Louis UA	Trib. Big River
					On North Outer Rd, take 109 from I-44, turn left 1 mile		
25	EUREKA	5	ST. LOUIS	Shed	down on right	Eureka	Flat Creek
					1000 Airport Rd. Take U.S. 61 approximately 0.5 miles		
	FESTUS	5	JEFFERSON	Shed	south of U.S 67 to Airport Rd.	St. Louis UA	Plattin Creek
27	HAMPTON	5	ST. LOUIS CITY	Shed	HAMPTON	St Louis UA	River Des Peres
					Near I-55 & Bayless. From I-55 go W on Bayless to		
					Union, left on Union cross I-55 go left on Hoffmeister until		
28	LEMAY	5	ST. LOUIS	Shed		St. Louis UA	Gravois Creek
	NORMANDY		ST. LOUIS	Shed			
29	BARRETT STATION					Normandy-MSD	Marlene Creek
		0	ST. LOUIS	Shed	BARRETT STATION	St Louis UA	
30					24.022.02.02.02		
30	SPECIAL-MOTORIST ASSIST-		OT 1 01110				Trib. Creve Coeur Creek
30 31	SPECIAL-MOTORIST ASSIST- CHESTERFIELD		ST LOUIS	Shed	CHESTERFIELD		
30 31	SPECIAL-MOTORIST ASSIST-		ST LOUIS ST. CHARLES	Shed Shed		St. Louis UA	Dry Creek
30 31 32	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES	5	ST. CHARLES	Shed			
30 31 32 33	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS	5 5	ST. CHARLES ST. LOUIS			St. Louis UA	
30 31 32 33	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES	5 5	ST. CHARLES	Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left	St. Louis UA	Dry Creek Trib. Meramec River
30 31 32 33 34	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS	5 5 5	ST. CHARLES ST. LOUIS ST. CHARLES	Shed Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A	St. Louis UA Sunset Hills-MSD St. Louis UA	Dry Creek Trib. Meramec River Trib. Dry Branch Creek
30 31 32 33 34	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE	5 5 5	ST. CHARLES ST. LOUIS	Shed Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart	St. Louis UA Sunset Hills-MSD	Dry Creek Trib. Meramec River
31 32 33 34 35	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNHART	5 5 5	ST. CHARLES ST. LOUIS ST. CHARLES JEFFERSON	Shed Shed Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart off Mo 744, .4 mile west of 65, then .2 mile north on	St. Louis UA Sunset Hills-MSD St. Louis UA St. Louis UA	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek
30 31 32 33 34 35	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNHART SPRINGFIELD COMPLEX	5 5 5 5	ST. CHARLES ST. LOUIS ST. CHARLES JEFFERSON GREENE	Shed Shed Shed Shed Complex	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart off Mo 744, .4 mile west of 65, then .2 mile north on Fairview west side of road	St. Louis UA Sunset Hills-MSD St. Louis UA St. Louis UA Springfield	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Rive
31 32 33 34 35 36 37	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNHART SPRINGFIELD COMPLEX BOLIVAR	5 5 5 5 6 6	ST. CHARLES ST. LOUIS ST. CHARLES JEFFERSON GREENE POLK	Shed Shed Shed Shed Complex Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart off Mo 744, .4 mile west of 65, then .2 mile north on Fairview west side of road Rt 32, 1/2 mile East of Rt 13	St Louis UA Sunset Hills-MSD St Louis UA St Louis UA Springfield Boliver	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Riw Branch Creek
30 31 32 33 34 35 36 37 38	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNHART SPRINGFIELD COMPLEX BOLIVAR CARTHAGE	5 5 5 5 6 6	ST. CHARLES ST. LOUIS ST. CHARLES JEFFERSON GREENE POLK JASPER	Shed Shed Shed Complex Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart off Mo 744, 4 mile west of 65, then .2 mile north on Fairview west side of road Rt 32, 1/2 mile East of Rt 13 Corner of 171 & 96 one mile West of town	St. Louis UA Sunset Hills-MSD St. Louis UA St. Louis UA Springfield Boliver Carthage	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Rive Branch Creek Trib. Spring River
30 31 32 33 34 35 36 37 38	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNHART SPRINGFIELD COMPLEX BOLIVAR	5 5 5 5 6 6	ST. CHARLES ST. LOUIS ST. CHARLES JEFFERSON GREENE POLK	Shed Shed Shed Shed Complex Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart off Mo 744, 4 mile west of 65, then .2 mile north on Fairniew west side of road Rt 32, 1/2 mile East of Rt 13 Corner of 171 & 96 one mile West of town .8 mile East of Rt 175 mile E	St Louis UA Sunset Hills-MSD St Louis UA St Louis UA Springfield Boliver	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Rive Branch Creek
30 31 32 33 34 35 36 37 38 39	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNHART SPRINGFIELD COMPLEX BOLIVAR CARTHAGE JOPLIN	5 5 5 5 6 6	ST. CHARLES ST. LOUIS ST. CHARLES JEFFERSON GREENE POLK JASPER JASPER	Shed Shed Shed Shed Complex Shed Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart off Mo 744, .4 mile west of 65, then .2 mile north on Fairview west side of road Rt 32, 1/2 mile East of Rt 13 Corner of 171 & 96 one mile West of town .8 mile East of Bus 71 off Rt FF From Jct 60 & 59 Go N on Bus 60 1 mile on left next to	St. Louis UA Sunset Hills-MSD St. Louis UA St. Louis UA Springfield Boliver Carthage Joplin	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Rive Branch Creek Trib. Spring River Trib. Silver Creek
30 31 32 33 34 35 36 37 38 39	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNHART SPRINGFIELD COMPLEX BOLIVAR CARTHAGE JOPLIN NEOSHO	5 5 5 5 6 6 6	ST. CHARLES ST. LOUIS ST. CHARLES JEFFERSON GREENE POLK JASPER JASPER NEWTON	Shed Shed Shed Shed Complex Shed Shed Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart off Mo 744, 4 mile west of 65, then .2 mile north on Fairview west side of road Rt 32, 1/2 mile East of Rt 13 Corner of 171 & 96 one mile West of town .8 mile East of Bus 71 off Rt FF From Jct 60 & 59 Go N on Bus 60 1 mile on left next to Meeks	St. Louis UA Sunset Hills-MSD St. Louis UA St. Louis UA Springfield Boliver Carthage	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Rive Branch Creek Trib. Spring River
30 31 32 33 34 35 36 37 38 39 40 41	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNHART SPRINGFIELD COMPLEX BOLIVAR CARTHAGE JOPLIN NEOSHO	5 5 5 5 6 6 6	ST. CHARLES ST. LOUIS ST. CHARLES JEFFERSON GREENE POLK JASPER JASPER	Shed Shed Shed Shed Complex Shed Shed Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart off Mo 744, 4 mile west of 65, then .2 mile north on Fairview west side of road Rt 32, 1/2 mile East of Rt 13 Corner of 171 & 96 one mile West of town .8 mile East of Bus 71 off Rt FF From Jct 60 & 59 Go N on Bus 60 1 mile on left next to Meeks	St. Louis UA Sunset Hills-MSD St. Louis UA St. Louis UA Springfield Boliver Carthage Joplin	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Riv Branch Creek Trib. Spring River Trib. Silver Creek
30 31 32 33 34 35 36 37 38 39 40 41	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNHART SPRINGFIELD COMPLEX BOLIVAR CARTHAGE JOPLIN NEOSHO	5 5 5 5 6 6 6 6	ST. CHARLES ST. LOUIS ST. CHARLES JEFFERSON GREENE POLK JASPER JASPER NEWTON	Shed Shed Shed Complex Shed Shed Shed Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart off Mo 744, 4 mile west of 65, then .2 mile north on Fairview west side of road Rt 32, 1/2 mile East of Rt 13 Corner of 171 & 96 one mile West of town .8 mile East of Bus 71 off Rt FF From Jot 60 & 59 Go N on Bus 60 1 mile on left next to Meeks Rt F exit off 65, East to to 2nd stoplight, right 300 yards	St. Louis UA Sunset Hills-MSD St. Louis UA St. Louis UA Springfield Boliver Carthage Joplin Neosho Springfield	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Rive Branch Creek Trib. Spring River Trib. Silver Creek Trib. Hickory Creek Trib. Ek Valley
30 31 32 33 34 35 36 37 38 39 40 41	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNHART SPRINGFIELD COMPLEX BOLIVAR CARTHAGE JOPLIN NEOSHO	5 5 5 5 6 6 6 6	ST. CHARLES ST. LOUIS ST. CHARLES JEFFERSON GREENE POLK JASPER JASPER NEWTON CHRISTIAN	Shed Shed Shed Complex Shed Shed Shed Shed Shed Shed Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart off Mo 744, .4 mile west of 65, then .2 mile north on Fairview west side of road Rt 32, 1/2 mile East of Rt 13 Corner of 171 & 96 one mile West of town .8 mile East of Bus 71 off Rt FF From Jct 60 & 59 Go N on Bus 60 1 mile on left next to Meeks Rt F exit off 65, East to to 2nd stoplight, right 300 yards Strafford	St. Louis UA Sunset Hills-MSD St. Louis UA St. Louis UA Springfield Boliver Carthage Joplin	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Riv Branch Creek Trib. Spring River Trib. Silver Creek Trib. Hickory Creek
30 31 32 33 34 35 36 37 38 39 40 41 42	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNI-HART SPRINGFIELD COMPLEX BOLIVAR CARTHAGE JOPLIN NEOSHO DZARK STRAFFORD INMATE LOT	5 5 5 6 6 6 6 6	ST. CHARLES ST. LOUIS ST. CHARLES ST. CHARLES JEFFERSON GREENE POLK JASPER JASPER NEWTON CHRISTIAN GREENE	Shed Shed Shed Complex Shed Shed Shed Shed Shed Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart of Mr. A Barnhart of Mr. A Hille west of 65, then .2 mile north on Fairview west side of road Rt 32, 1/2 mile East of Rt 13 Corner of 171 & 96 one mile West of town .8 mile East of Bus 71 off Rt FF From Jct 60 & 59 Go N on Bus 60 1 mile on left next to Meeks Rt F exit off 65, East to to 2nd stoplight, right 300 yards Strafford 412 West to Rt O, right on O, 1 mile on right (white	St. Louis UA Sunset Hills-MSD St. Louis UA St. Louis UA Springfield Boliver Carthage Joplin Neosho Springfield Springfield Springfield	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Riv Branch Creek Trib. Spring River Trib. Silver Creek Trib. Hickory Creek Trib. Ek Valley Pearson Creek
30 31 32 33 34 35 36 37 38 39 40 41 42	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNHART SPRINGFIELD COMPLEX BOLIVAR CARTHAGE JOPLIN NEOSHO	5 5 5 6 6 6 6 6	ST. CHARLES ST. LOUIS ST. CHARLES JEFFERSON GREENE POLK JASPER JASPER NEWTON CHRISTIAN	Shed Shed Shed Complex Shed Shed Shed Shed Shed Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart of Mr. A Barnhart of Mr. A Hille west of 65, then .2 mile north on Fairview west side of road Rt 32, 1/2 mile East of Rt 13 Corner of 171 & 96 one mile West of town .8 mile East of Bus 71 off Rt FF From Jct 60 & 59 Go N on Bus 60 1 mile on left next to Meeks Rt F exit off 65, East to to 2nd stoplight, right 300 yards Strafford 412 West to Rt O, right on O, 1 mile on right (white	St. Louis UA Sunset Hills-MSD St. Louis UA St. Louis UA Springfield Boliver Carthage Joplin Neosho Springfield	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Rive Branch Creek Trib. Spring River Trib. Silver Creek Trib. Hickory Creek Trib. Elk Valley Pearson Creek Ragland Slough
30 31 32 33 34 35 36 37 38 39 40 41 42 43	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNHART SPRINGFIELD COMPLEX BOLIVAR CARTHAGE JOPLIN NEOSHO DOZARK STRAFFORD INMATE LOT	5 5 5 5 6 6 6 6 6 7	ST. CHARLES ST. LOUIS ST. CHARLES JEFFERSON GREENE POLK JASPER JASPER JASPER HEWTON CHRISTIAN GREENE	Shed Shed Shed Shed Complex Shed Shed Shed Shed Shed Shed Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart off Mo 744, .4 mile west of 65, then .2 mile north on Fairview west side of road Rt 32, 1/2 mile East of Rt 13 Corner of 171 & 96 one mile West of town .8 mile East of Bus 71 off Rt FF From Jct 60 & 59 Go N on Bus 60 1 mile on left next to Meeks RT e sit of 65, East to to 2nd stoplight, right 300 yards Strafford 412 West to Rt O, right on O, 1 mile on right (white fence)	St. Louis UA Sunset Hills-MSD St. Louis UA St. Louis UA Springfield Boliver Carthage Joplin Neosho Springfield Springfield Kennett	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Rive Branch Creek Trib. Spring River Trib. Silver Creek Trib. Hickory Creek Trib. Hickory Creek Trib. Eik Valley Pearson Creek Ragland Slough Trib. Black River and Tri
30 31 32 33 34 35 36 37 38 39 40 41 42 43	SPECIAL-MOTORIST ASSIST- CHESTERFIELD ST CHARLES SUNSET HILLS WENTZVILLE BARNI-HART SPRINGFIELD COMPLEX BOLIVAR CARTHAGE JOPLIN NEOSHO DZARK STRAFFORD INMATE LOT	5 5 5 5 6 6 6 6 6 7	ST. CHARLES ST. LOUIS ST. CHARLES ST. CHARLES JEFFERSON GREENE POLK JASPER JASPER NEWTON CHRISTIAN GREENE	Shed Shed Shed Shed Shed Complex Shed Shed Shed Shed Shed Shed Shed Shed	Old 94 and Muegge Rd. Hwy 94 to Pralle, left on old 94 on Rt 30 between 270 and 141 on Rahning Rd, 1/4 on left 0.75 miles North of Rt. A Barnhart off Mo 744, .4 mile west of 65, then .2 mile north on Fairview west side of road Rt 32, 1/2 mile East of Rt 13 Corner of 171 & 96 one mile West of town .8 mile East of Bus 71 off Rt FF From Jct 60 & 59 Go N on Bus 60 1 mile on left next to Meeks RT e sit of 65, East to to 2nd stoplight, right 300 yards Strafford 412 West to Rt O, right on O, 1 mile on right (white fence)	St. Louis UA Sunset Hills-MSD St. Louis UA St. Louis UA Springfield Boliver Carthage Joplin Neosho Springfield Springfield Springfield	Dry Creek Trib. Meramec River Trib. Dry Branch Creek Glaize Creek Trib. South Dry Sac Rive Branch Creek Trib. Spring River Trib. Silver Creek Trib. Hickory Creek Trib. Elk Valley Pearson Creek Ragland Slough

Table 1: MoDOT facilities within the TS4 coverage area that have operations activities and are required to have a FRCP.