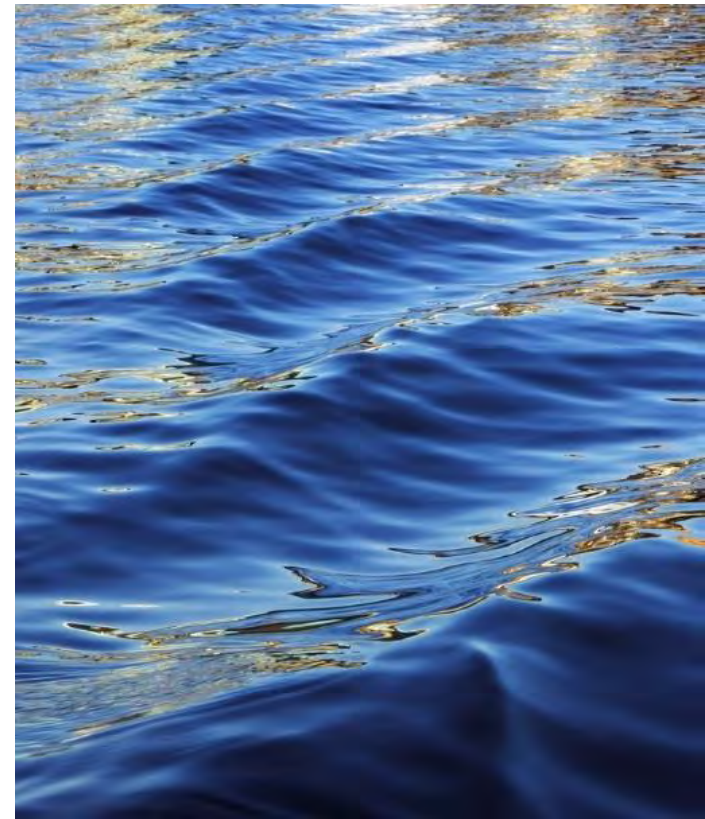




New Permit & Database Updates for Construction

State Operating Permit MO-0137910



New Permit & EPG Updates for Construction

- New Stacked Permit
 - Section I – Transportation Separate Storm Sewer System (TS₄) Permit Conditions
 - Regulatory Requirement
 - Stormwater Management Plan
 - Minimum Control Measures (MCMs)
 - MCM 1 - MoDOT Community & Public Outreach and Education on Stormwater Impacts
 - MCM 2 - MoDOT Community & Public Involvement/Participation Program
 - MCM 3 - Illicit Discharge Detection and Elimination
 - MCM 4 - Construction Stormwater Runoff Control
 - MCM 5 – Post-Construction Stormwater Management in New Development & Redevelopment
 - MCM 6 – Pollution Prevention /Good Housekeeping
 - Annual Report
 - Break



New Permit & EPG Updates for Construction

- Section II – Area Wide Land Disturbance Stormwater Permit Conditions
 - Area-wide Land Disturbance Permit Program;
 - Support Activities & Common Plan Concept
 - Prohibited Discharges;
 - BMP Installation & Maintenance ;
 - Track Out;
 - Project Specific SWPPPs;
 - SWPPP Requirements;
 - Site Maps;
 - Site Description;
 - Surface Waters;
 - Description of BMPs;



New Permit & EPG Updates for Construction

- SWPPP Requirements cont.
 - Stabilization of Disturbed areas;
 - Good Housekeeping / Pollution Prevention Measures;
 - Dewatering
 - Amending/Updating the SWPPP;
- Site Inspections
 - Inspection Frequencies;
 - Deficiencies;
 - Inspection Observations;
- Water Quality Criteria;
- Public Notification Sign;
- Copies of the SWPPP;



Stormwater Database Changes

- Phase III Changes
 - Stormwater Inspection Frequency Changes;
 - 2-year, 24-Hour Storm Frequency;
 - Inspection Questions;
- Land Disturbance Page;
- Quick Reference Guides;
- Questions about Phase I, II, or III changes?



New Land Disturbance Permit MO-0137910

- Section I - Transportation Separate Storm Sewer Permit (TS4)

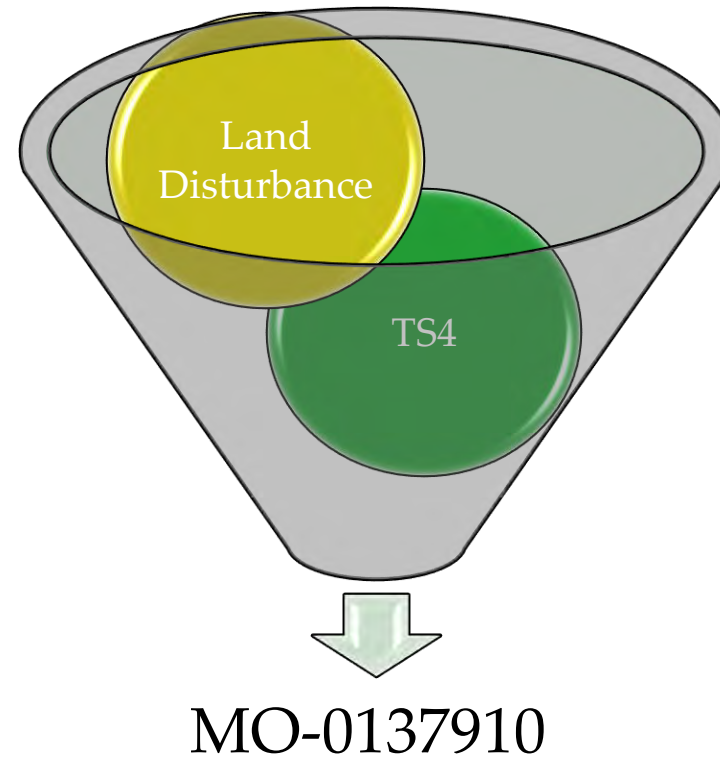


- Section II - Area-Wide Land Disturbance Stormwater Permit Conditions



New Stacked Permit MO-0137910

- Incorporated TS₄ and Land Disturbance under one individual permit;
- Saves MoDOT money;
- Allowed customization;
- Helps align National Pollution Discharge Elimination System (NPDES) requirements.



Regulatory Requirement

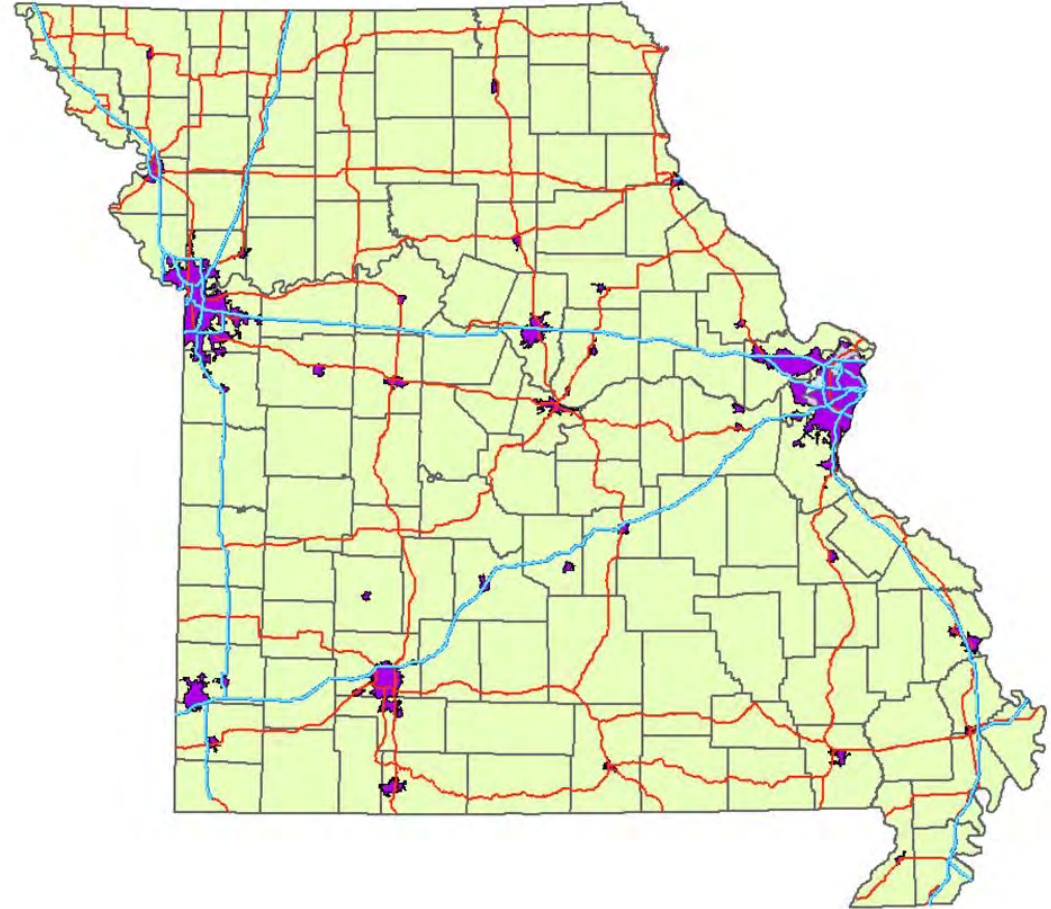
- MS₄ –Municipal Separate Storm Sewer System (40 CFR 122.26(b)(8))– a conveyance or a system of conveyances (*Including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains*):
 - Owned or operated by a state, city, town, county, or other public body that discharges into water of the United States.
 - Design or used for collecting or conveying stormwater;
 - Which is not a combined sewer, and;
 - Which is not part of a publicly owned treatment works (POTW)
- TS₄ is an MS₄ for Transportation Agencies

Regulatory Requirement cont.

- Large, Medium, & Small MS₄s
 - Large – Urbanized areas with population \geq 250,000
 - Medium - Urbanized areas with population between 100,000 - 250,000;
 - Small – Urbanized areas with population of at least 50,000 or an unurbanized area with population of 10,000 or more and a population density of at least 1,000 people per sq. mile.



MS₄ Communities in Missouri



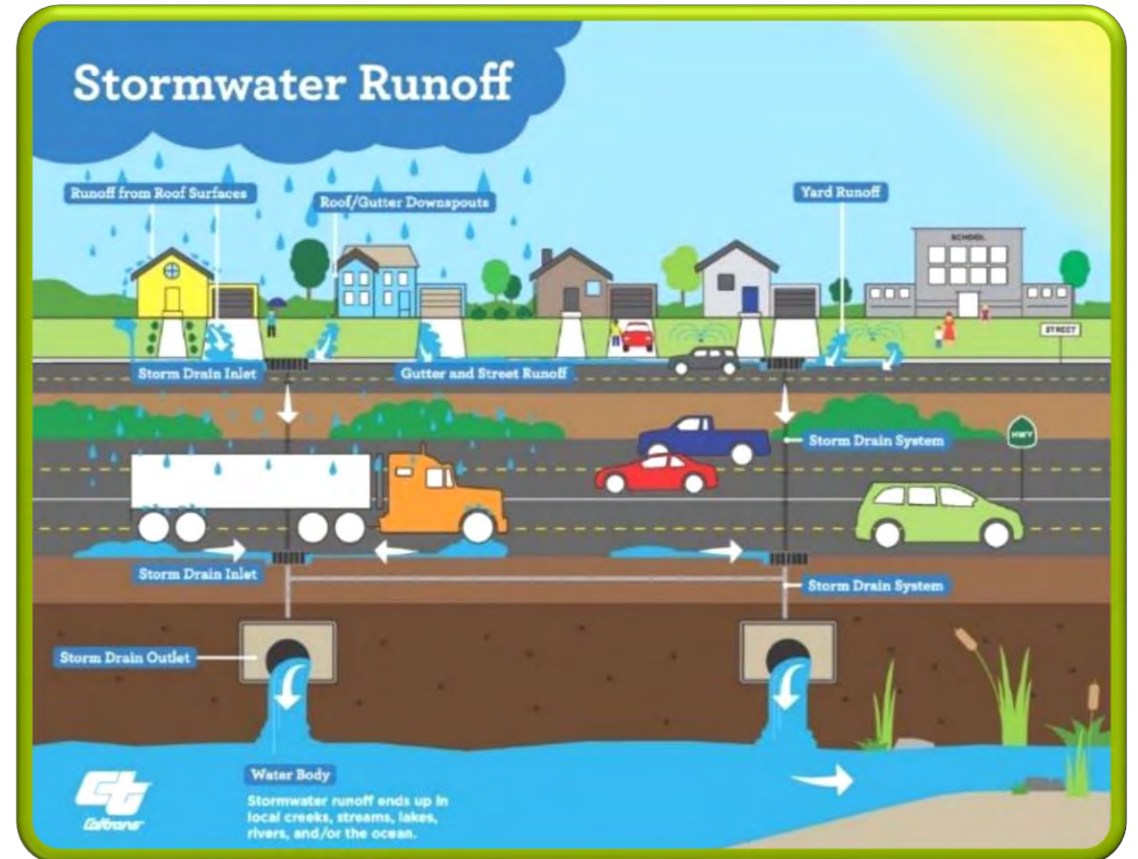
Regulatory Requirement cont.

- MoDOT's TS₄ permit authorizes stormwater discharges located in:
 - Urbanized areas;
 - Regulated MS₄s not located in urbanized areas;
 - Watersheds subject to an approved and effective Total Maximum Daily Load (TMDL);
 - Outstanding National Resource Waters;
 - Outstanding State Resource Waters and;
 - Statewide as established for illicit discharges and bridge washing

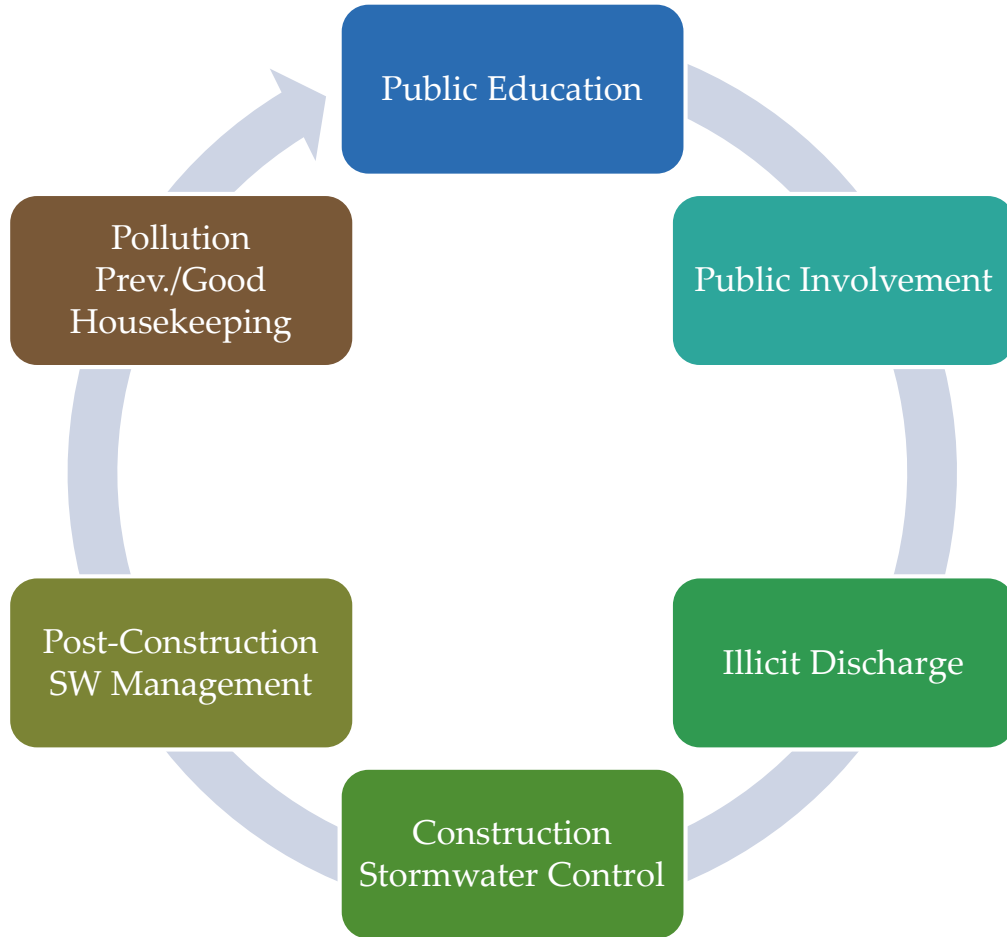


Storm Water Management Program (SWMP)

- Plan for reducing the discharge of pollutants;
 - Must contain Best Management Practices (BMPs) with purpose of reducing stormwater;
 - Must contain measurable goals for each BMP that are quantifiable;
 - Outline a person responsible for the SWMP;
 - Iterative process must be outlined to determine effectiveness of BMPs.
 - Visit www.modot.org/stormwater



Permit Minimum Control Measures (MCMs)



- 6-focus areas
- Programs for each MCM
- Program obligations only apply in areas where TS₄ are applicable (Except for Illicit Discharge)

MCM #1 - Public Education and Outreach

- Educate MoDOT community and public on discharge impacts to waterbodies;
- Steps that MoDOT community can take to reduce pollutants;
- Outreach opportunities MoDOT uses:
 - Earth Day
 - State Fair
 - Other education engagements.



MCM #2 - MoDOT Community & Public Involvement

- Involvement in SWMP development;
- Application renewals;
- Public notice periods,
- Provide Plan to target stakeholders;
- Availability for citizen volunteers to assist with right-of-way clean up efforts



MCM #3 - Illicit Discharge Detection & Elimination (IDDE)

- Plan to detect and eliminate illicit discharges into the TS₄;
- Map all outfalls that receive discharges from the TS₄;
- Standard operating procedure for notification to appropriate agencies;
- Detection schedule;
- Report a stormwater concern form;
- Vehicle accidents are not considered illicit discharges unless spill enters waters of the state.





Missouri State Highway Fatalities
As of 1/14
2020 - **25** 2019 - **22**



Cognos Reporting



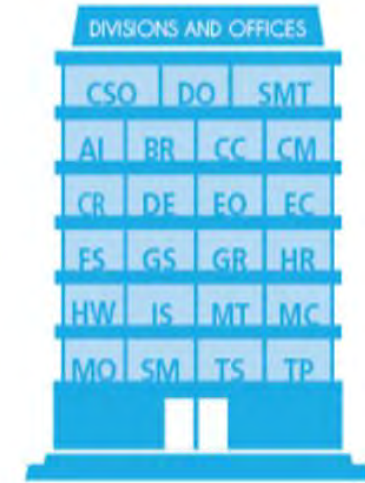
Connections



Directory



Emergency Response



MoDOT INCIDENT RESPONSE PLAN (IRP)

PRIVACY STATEMENT

Public disclosure of this document would have a reasonable likelihood of threatening public safety by exposing a vulnerability to terrorist attack. Accordingly, the Department of Transportation (MoDOT) is withholding this document from full public disclosure and is treating it as a confidential document. Note that a public agency that receives a confidential public record from another public agency is required to maintain the confidentiality of the record. The Department of Transportation's Privacy Policy is available at [www.mot.gov/privacy](#).

FORWARD

CHAPTER 1: [Command and Management](#)

CHAPTER 2: [Preparedness](#)

CHAPTER 3: [Resource Management](#)

CHAPTER 4: [Communications and Information Management](#)

CHAPTER 5: [Supporting Technologies](#)

CHAPTER 6: [Ongoing Management and Maintenance](#)

ANNEXES - SUPPLEMENTAL PLANS

A. [Continuity of Operations Plan \(COOP\)](#)

Appendix A - [Leadership Succession](#)

Appendix B - [Drive-Away Kits](#)

Appendix C - [Implementation Checklist](#)

Appendix D1 - [Critical Function Summary](#)

Appendix D2 - [Supplemental Critical Functions for Pandemic Influenza](#)

B. [Severe Weather Response Plan](#)

C. [Hazardous Materials Response Plan](#)

D. [Radiological Response Plan](#)

E. [Terrorism Response Plan](#)

F. [Pandemic Influenza Response Plan](#)

ANNEXES - SUPPLEMENTAL PLANS

A. [Continuity of Operations Plan \(COOP\)](#)

Appendix A - [Leadership Succession](#)

Appendix B - [Drive-Away Kits](#)

Appendix C - [Implementation Checklist](#)

Appendix D1 - [Critical Function Summary](#)

Appendix D2 - [Supplemental Critical Functions for Pandemic Influenza](#)

B. [Severe Weather Response Plan](#)

C. [Hazardous Materials Response Plan](#)

D. [Radiological Response Plan](#)

E. [Terrorism Response Plan](#)

F. [Pandemic Influenza Response Plan](#)

Appendix A - [Federal Government Response Stages](#)

Appendix B - [MoDOT's Pandemic Influenza Communications Plan](#)

Attachment 1 - [Detailed guidelines for what triggers a media alert in the event roads are closed due to pandemic influenza](#)

MCM #4 - Construction Stormwater Runoff Control

- Program to reduce pollutants from construction activities one-acre or greater within the TS4 area;
- Program is developed around land disturbance permit requirements;
 - Good housekeeping requirements;
 - Inspection procedures;
 - Plan reviews;
 - Sanctions to insure compliance.
- TS4 program is not any different than what we do for any project.



MCM #5 - Post-Construction Runoff Control

- Applicable to New Development or Redevelopment projects in TS4 area one-acre or greater;
- New Development – development where transportation facility previously did not exist. (EPG 127.29)
- Redevelopment - non-maintenance work to existing facility which provides an increased through lane of travel. (EPG 127.29)
- Post-construction BMPs must be considered to mimic pre-existing runoff condition in new development



MCM #6 – Pollution Prevention/Good Housekeeping



- Program to address runoff from MoDOT's operations and maintenance areas within the TS₄ area.
- Training to reduce or prevent pollution from:
 - Welcome centers, rest areas, & commuter lots;
 - Maintenance buildings;
 - New construction and land disturbance; and
 - Bridge washing/cleaning activities
- Inspection frequencies for structural BMP implementation (FRCP)

Annual Report

- Submit no later than February 28;
- Outlines BMPs, quantifiable measurable goals, and results of compliance effort for the year, and consideration for each BMP and measurable goal through the iterative process to determine effectiveness for future use.
- Documentation is key – if it is not documented it did not happen.



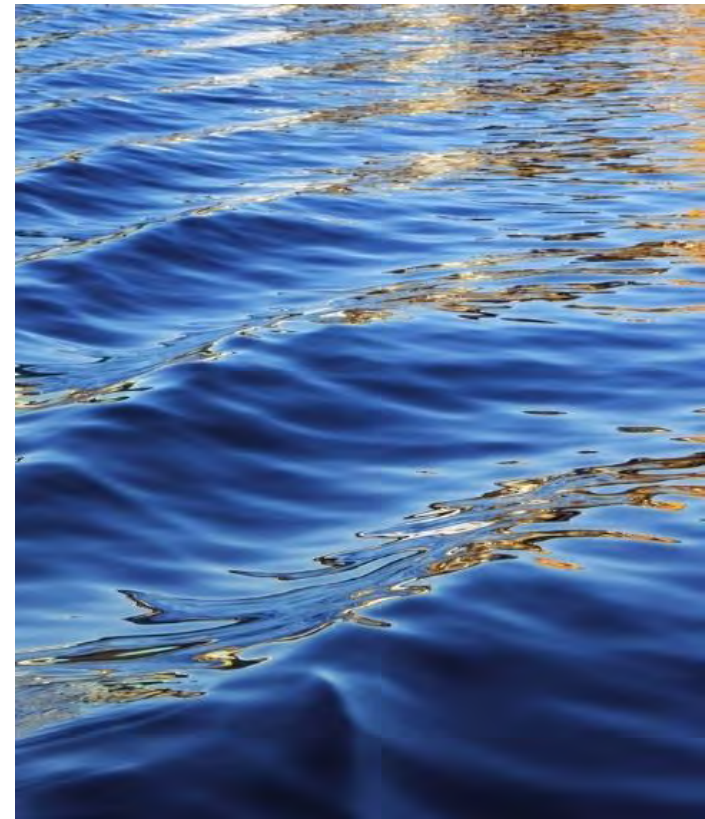
Questions over TS4??





Break Time

Let's take a break!!
Be back in 10 min.



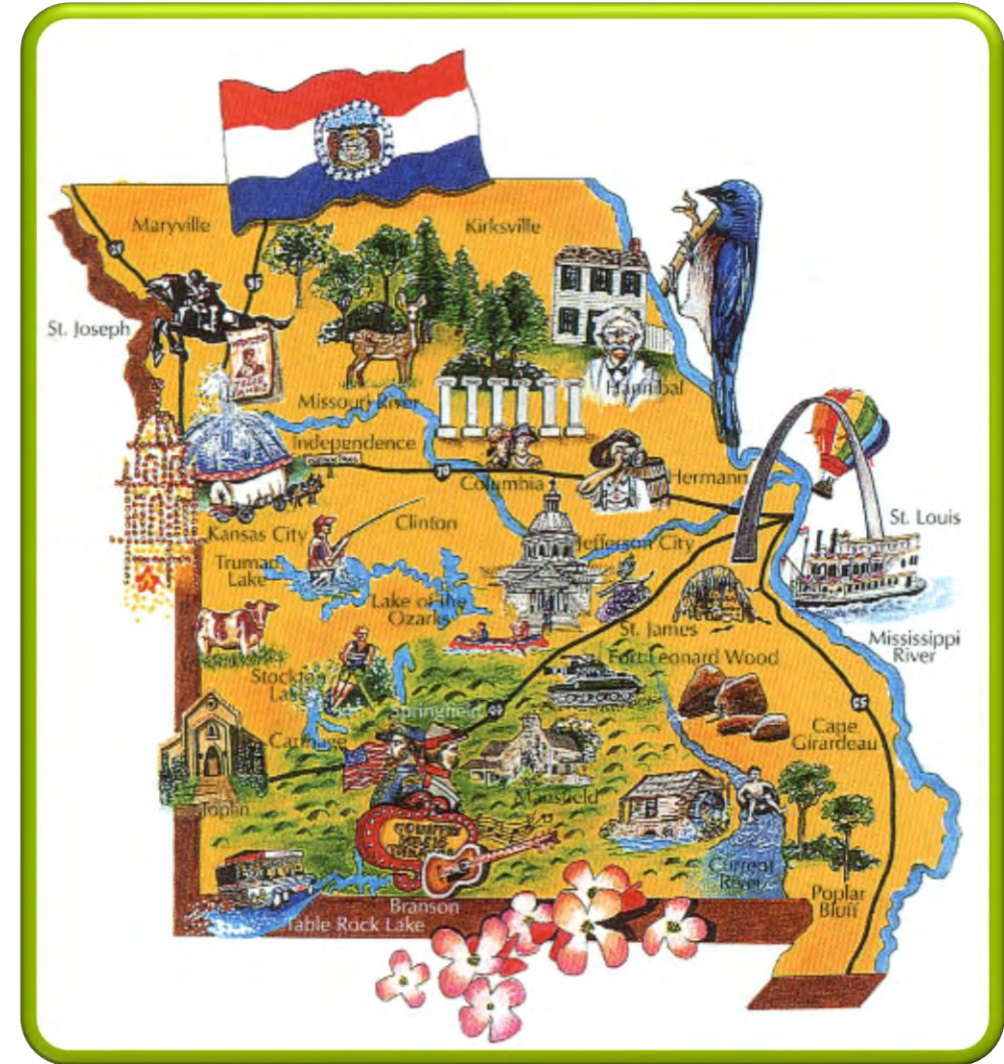
Section II - Area-Wide Land Disturbance Stormwater Permit Conditions

Land Disturbance Permit Program

The program is for land disturbance projects performed by MoDOT or land disturbance projects under contract by MoDOT within a permitted site.

Permitted site – areas within the site boundary where work is performed or contracted by MoDOT:

- Area within MoDOT R/W
- Easements and



Support Activities & Common Plan Concept

- Support activities are concrete or asphalt plants, borrow sites, waste disposal sites, staging or equipment areas on or off MoDOT Right-of-Way used to construction the project;
- MoDOT policy contractors to get their own permit when off MoDOT R/W; unless permitted by a commercial operation or an operation that will continue beyond the completion of the project.
- Permit considers off-site support activities common plans with MoDOT permitted site;
- Will place more projects under permit obligation;
- Permits for off-site support activities must be documented in the project specific SWPPP.



Land Disturbance Permit Program

Prohibited Discharges

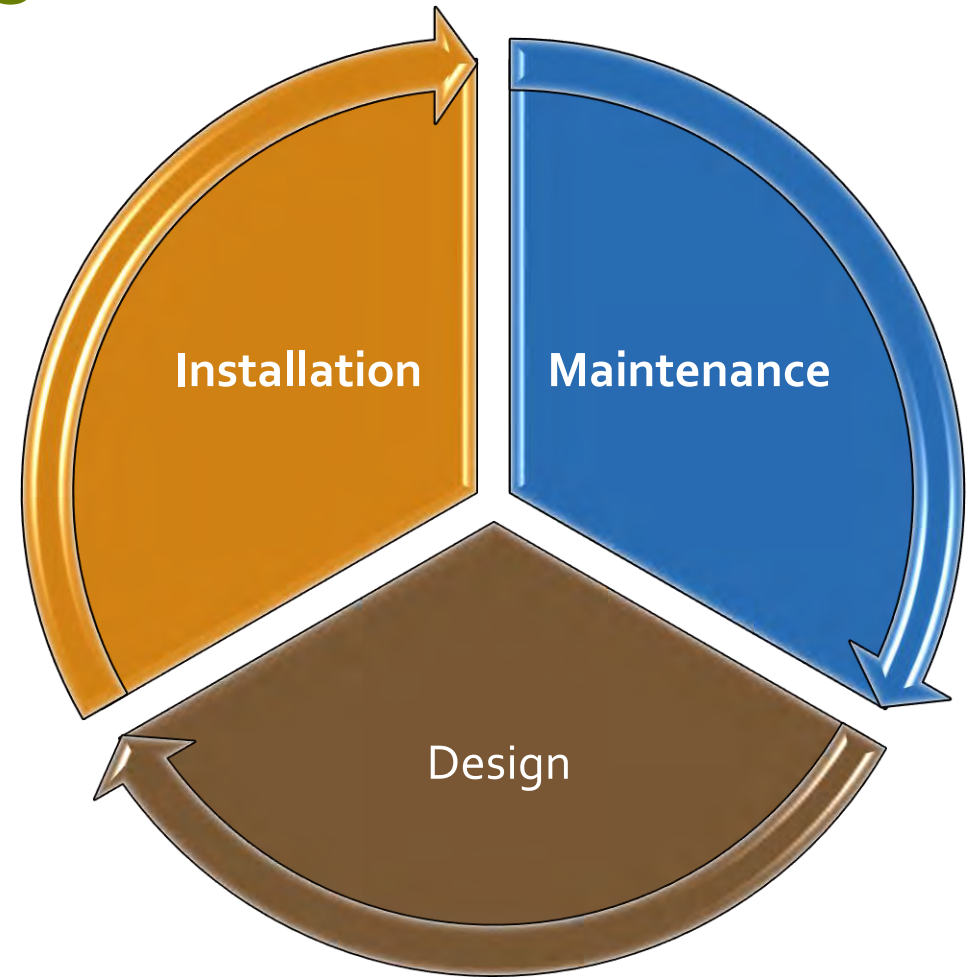
- Any hazardous material, oil, lubricant, fuels, etc.;
- Soaps or solvents used in vehicle washing;
- Concrete wash or rinse water from concrete mixing equipment (must be captured and shall not discharge to surface or subsurface waters);
- Wash water from clean out of stucco, paint, form release oils, curing compounds etc.;
- Domestic wastewater, including grey water; or
- Industrial stormwater runoff from other than construction.



Land Disturbance Permit Program

Permit Obligations

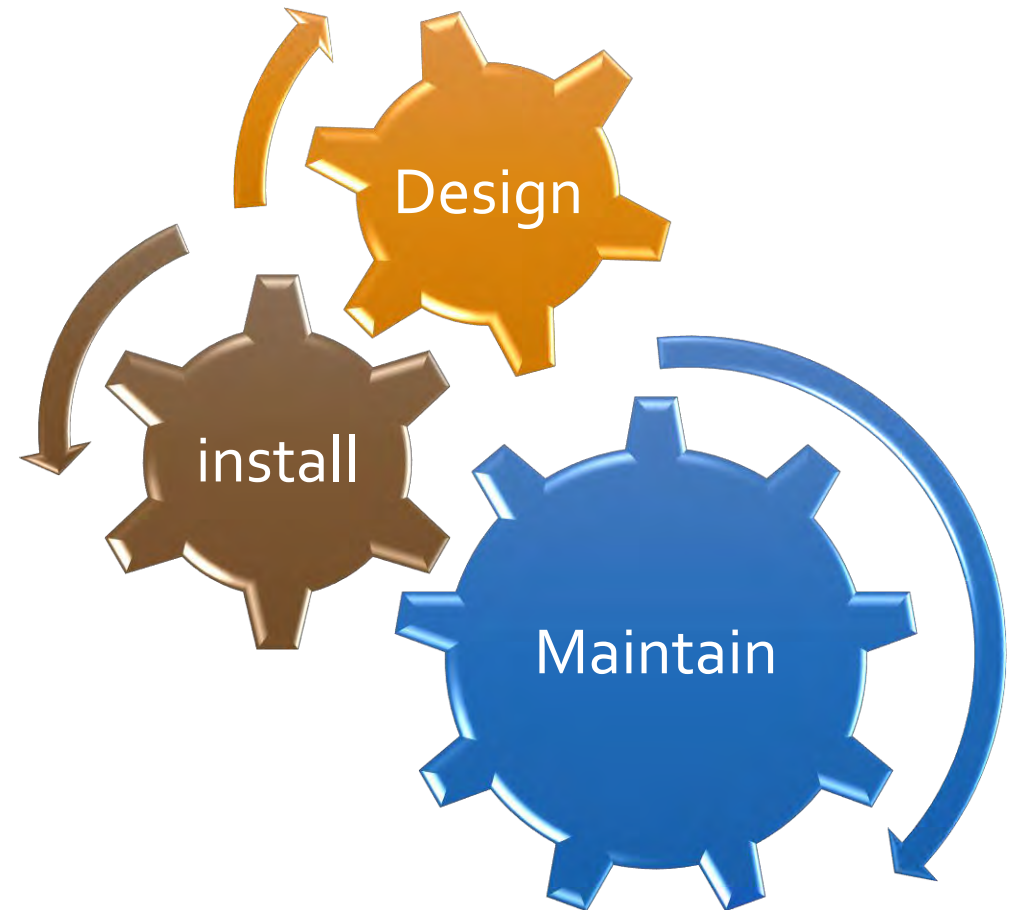
- To ensure the design, **installation**, and **maintenance** of effective erosion and sediment controls minimize the discharge of pollutants by:
 - Controlling stormwater volume and velocity within the site;
 - Controlling stormwater discharges, including peak flow rates and total stormwater volume, to minimize erosion at outlets
 - Address factors such as amount, frequency, intensity, and duration of precipitation, to minimize sediment discharges from the site



Land Disturbance Permit Program

Permit Obligations cont.

- Provide and maintain 50 ft. natural buffers around surface waters or provide BMPs to provide equal protection;
- Direct stormwater to vegetated areas to maximize infiltration and filtering;
- Minimize soil compaction, preserve topsoil; and
- Install sediment controls along any perimeter of the permitted site where stormwater has the potential to leave the site.



Land Disturbance Permit Program

BMP Installation and Maintenance

- BMPs shall be installed at the project boundaries where stormwater has the potential to leave the site prior to the start of all phases of construction;
- BMPs shall remain in effective operating condition in disturbed areas during the duration of the project;
- Maintenance of BMPs shall be conducted per the manufacturers specifications or **before** it is 50% full.



Land Disturbance Permit Program

Track-Out

- Vehicle traffic should be restricted to designated exit points;
- Use appropriate stabilization techniques at all exit points onto paved roads (*large gravel or commercially available items*);
- Sediment tracked out shall be removed within the same business day, or by the end of the next business day if track out occurs on a non-business day.



Project Specific SWPPPs

Project Specific SWPPP

- SWPPPs shall be developed specifically for each land disturbance site prior to any land disturbance activities;
- Each SWPPP must:
 - List and describe all points of discharge to receiving water(s);
 - Incorporate good housekeeping requirements;
 - Incorporate erosion control practices;
 - Provide for maintenance;
 - Discuss if additional permit are necessary such as 404 and 401 certifications;
 - Name the person responsible for inspections, operation, and maintenance of BMPs;
 - List subcontractors responsible for erosion & sediment control and of offsite support activities are being used.

MISSOURI DEPARTMENT OF TRANSPORTATION
Project-Specific SWPPP Information Form 806.8.2

Project Number:	County:	Route:
-----------------	---------	--------

Project Description: _____

Estimated Project Start Date: _____

Estimated Project Completion Date: _____

RE Name: _____

Erosion and Sediment Control Inspector(s) Name(s): _____

Primary Contractor(s) Name(s): _____

Erosion and Sediment Control Contractor(s) Name(s): _____

Seed and Mulch Contractor(s) Name(s): _____

Anticipated Disturbed Acreage for the Project (Permitted Site): _____

Offsite Borrow or Staging Area Obtained for this Project: Yes No

If yes, Estimated Area of Offsite Borrow and/or Staging Areas: _____

Permit Number for Offsite Borrow or Staging Area: _____

2 year/24hr Storm Event Totals for Project Location: _____
https://hdsc.mw.nasa.gov/hdsc/pfd/pfd_map_cont.html?skunk=mo

Primary Receiving Water(s) for the Project: _____

Location of Public Notification Sign(s) (Note: Must be Viewable to the Public): _____

Location where Inspections will be Stored: **MoDOT Electronic Stormwater Database**

Describe the Good Housekeeping BMPs that will be used to manage solid and hazardous waste: _____

Describe the BMP selection implementation and maintenance plan for the project. For physical description, site conditions for use, and maintenance procedures for each BMP, see EPG Article 806.8

For installation /construction procedures/typical drawings see Standard Plan 806.10. All BMPs are temporary unless indicated on the site plans.

Final Stabilization must be achieved prior to removal of all interim stabilization BMPs unless BMP is being replaced with another interim stabilization BMP.

Project Specific SWPPPs

SWPPP Requirements

- Nature of the Construction Activity
 - Function of the project;
 - Intended sequence and timing of activities that disturb soil;
 - List sub-contractors responsible for erosion and sediment control at the site,
 - Estimated areas of disturbance (including off site areas);
 - General Map (*portion of a city or county map or US geological survey quadrangle map*) with enough detail to identify the site location and all waters of the state within one mile of the site.
- Site maps

MISSOURI DEPARTMENT OF TRANSPORTATION
Project-Specific SWPPP Information Form 806.8.2

Project Number: _____ County: _____ Route: _____

Project Description: _____

Estimated Project Start Date: _____

Estimated Project Completion Date: _____

RE Name: _____

Erosion and Sediment Control _____

Primary Contractor(s) Name(s) _____

Erosion and Sediment Control _____

Seed and Mulch Contractor(s) _____

Anticipated Disturbed Acreage _____

Offsite Borrow or Staging Area _____

If yes, Estimated Area of Offsite Disturbance _____

Permit Number for Offsite Disturbance _____

2 year/24hr Storm Event Total Suspended Solids Load (TSS) _____
<http://hdic.nws.noaa.gov/hdic/pfd/>

Primary Receiving Water(s) for Project _____

Location of Public Notification _____

Location where Inspections will be Conducted _____


Describe the Good Housekeeping Practices _____

Describe the BMP selection including BMP description, site conditions, and EPG Article 806.8 _____

For installation /construction _____

All BMPs are temporary unless otherwise noted. Final Stabilization must be achieved within the time frame unless BMP is being replaced with another interim stabilization BMP.

Map(s) of Project Location/Alignment & Water Bodies within a 1 Mile Radius

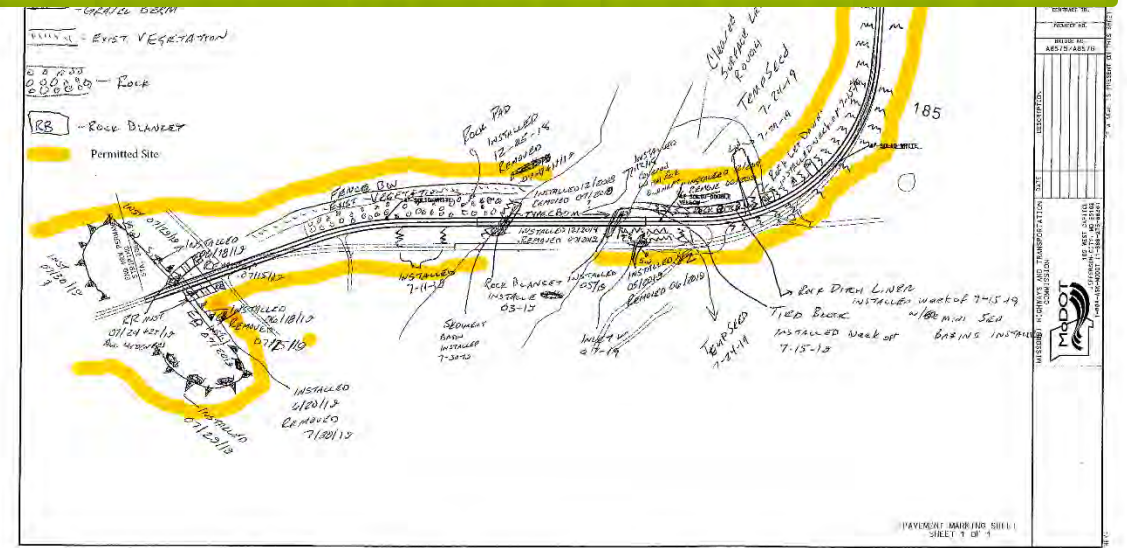


Project Specific SWPPPs

Site Maps

- Site maps of each site must contain legible map showing permitted site boundaries, location(s) of public notification signs, and points of discharge to receiving waters as well as:
 - Direction of stormwater flows,
 - Approximate slopes of all phases of construction;
 - Areas of disturbance and non-disturbance,
 - Locations of support activities (*waste, borrow, etc.*)
 - Location of permanent and temp BMPs
 - Where stabilization is expected to occur;
 - Locations of waters of the state,
 - Locations where stormwater discharges to other MS4s.

- (b) Site Map: The SWPPP of each site must contain a legible site map showing the permitted site boundaries, location of public notification sign(s), and points of discharge to receiving water(s) and identifying:
- Direction(s) of stormwater flow and approximate slopes for all phases of construction activities;
 - Areas of soil disturbance and areas that will not be disturbed (or a statement that all areas of the site will be disturbed unless otherwise noted);
 - Location of permanent and temporary structural and non-structural BMPs identified in the SWPPP;
 - Locations where stabilization practices are expected to occur;
 - Locations of material, waste, borrow, or equipment storage areas;
 - Locations of all waters of the state (including wetlands);
 - Locations where stormwater discharges to a water, including any discharges to waters within and at the perimeter of the permitted site;
 - Locations where stormwater discharges to another regulated MS4; and
 - Areas where final stabilization has been accomplished and no further construction-phase permit requirements apply.



New SWPPP Form

- Located in EPG and on Land Disturbance Page www.modot.org/LD;
- Required information incorporated in the form;
- ALL projects under permit obligation must have this SWPPP form as well as the general location map, copies of typical sections, and erosion & sediment control plans (site maps). **These items make up your project specific SWPPP.**

MISSOURI DEPARTMENT OF TRANSPORTATION
Project-Specific SWPPP Information Form 806.8.2

Project Number:	County:	Route:
-----------------	---------	--------

Project Description:

Estimated Project Start Date:

Estimated Project Completion Date:

RE Name:

Erosion and Sediment Control Inspector(s) Name(s):

Primary Contractor(s) Name(s):

Erosion and Sediment Control Contractor(s) Name(s):

Seed and Mulch Contractor(s) Name(s):

Anticipated Disturbed Acreage for the Project (Permitted Site):

Offsite Borrow or Staging Area Obtained for this Project: Yes No

If yes, Estimated Area of Offsite Borrow and/or Staging Areas:

Permit Number for Offsite Borrow or Staging Area:

2 year/24hr Storm Event Totals for Project Location:
https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bknrk=mo

Primary Receiving Water(s) for the Project:

Location of Public Notification Sign(s) (Note: Must be Viewable to the Public):

Location where Inspections will be Stored: **MoDOT Electronic Stormwater Database**

Describe the Good Housekeeping BMPs that will be used to manage solid and hazardous waste:

Describe the BMP selection implementation and maintenance plan for the project: **For physical description, site conditions for use, and maintenance procedures for each BMP, see EPG Article 806.8**

Project Specific SWPPPs

Surface Water Buffers

- Old permit - 25 feet.
- New Permit is 50 feet undisturbed natural buffer;
- If infeasible, BMPs to equal sediment reduction of 50 ft. natural buffer shall be provided.
- 50 feet buffer not required if 404 permit and 401 water quality certification is obtained.



Project Specific SWPPPs

Description of BMPs

- Permit requires description of both structural and nonstructural BMPs used one or more times at the site; providing:
 - Physical description of the BMP;
 - Site conditions necessary for effective use of BMP;
 - Installation procedures, including typical drawings;
 - Operation and maintenance procedures for BMPs.
- SWPPP shall provide information for each specific instance where BMP is installed

Describe the Good Housekeeping BMPs that will be used to manage solid and hazardous waste:

Describe the BMP selection implementation and maintenance plan for the project: **For physical description, site conditions for use, and maintenance procedures for each BMP, see EPG Article 806.8**

For installation /construction procedures/typical drawings see Standard Plan 806.10.

All BMPs are temporary unless indicated on the site plans.

Final Stabilization must be achieved prior to removal of all interim stabilization BMPs unless BMP is being replaced with another interim stabilization BMP.

Project Specific SWPPP Form 806.8.2 (Effective 12/9/2019)

The following BMPs are being used on this project (Check all that apply):

- | | |
|--|---|
| <input type="checkbox"/> Soil Surface Roughening | <input type="checkbox"/> Mulching and Crimping |
| <input type="checkbox"/> Type B Temporary Berm | <input type="checkbox"/> Temporary Slope Drains |
| <input type="checkbox"/> Interception Ditches | <input type="checkbox"/> Letdown Structures |
| <input type="checkbox"/> Energy Dissipaters | <input type="checkbox"/> Temporary Seed and Mulch |
| <input type="checkbox"/> Permanent Seeding and Mulch | <input type="checkbox"/> Fiber Reinforced Matrix (FRM) |
| <input type="checkbox"/> Erosion Control Blankets | <input type="checkbox"/> Turf Reinforcement Mats |
| <input type="checkbox"/> Sediment Basins | <input type="checkbox"/> Sediment Traps |
| <input type="checkbox"/> Rock Ditch checks | <input type="checkbox"/> Alternate Ditch Checks |
| <input type="checkbox"/> Silt Fence | <input type="checkbox"/> Rock/Mesh Sediment Control Fence |
| <input type="checkbox"/> Inlet Controls | <input type="checkbox"/> Type C Berm |
| <input type="checkbox"/> Compost Filter Socks | <input type="checkbox"/> Compost Filter Berms |
| <input type="checkbox"/> Mulch Berms | <input type="checkbox"/> Brush Pile Check/Barriers |
| <input type="checkbox"/> Straw Bales (Diamond Grinding Only) | |
| <input type="checkbox"/> Other (Describe below): | |

Project Specific SWPPPs

Stabilization of Disturbed Areas

Site maps or maps defining sloped areas for all phases of the project must be included in the SWPPP;

- Steep slopes 3:1 <
 - Establish interim stabilization in 7 days;
- All other locations
 - Initiate interim stabilization within 7 days, complete within 14 days;
- Grading has permanently ceased
 - Final stabilization initiated within 7 days and completed within 14.

Interim stabilization shall consist of well-established and maintained BMPs that are reasonably certain to protect waters of the state over a period of time.



Project Specific SWPPPs

Good Housekeeping/Pollution Prevention

- Containers for regular site cleanup and proper disposal of solid waste, scrap building materials, cups, etc.;
- Minimize the exposure of construction materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, etc. to precipitation and stormwater;
- Minimize discharge of pollutants from spills and leaks and implement chemical spill and leak prevention procedures (containment berms, drip pans, etc.)
- Releases of hazardous substances must be reported to DNR.
 - REs follow Incident Response Plan Annex C – Hazardous Materials Response Plan.



Project Specific SWPPPs

Dewatering

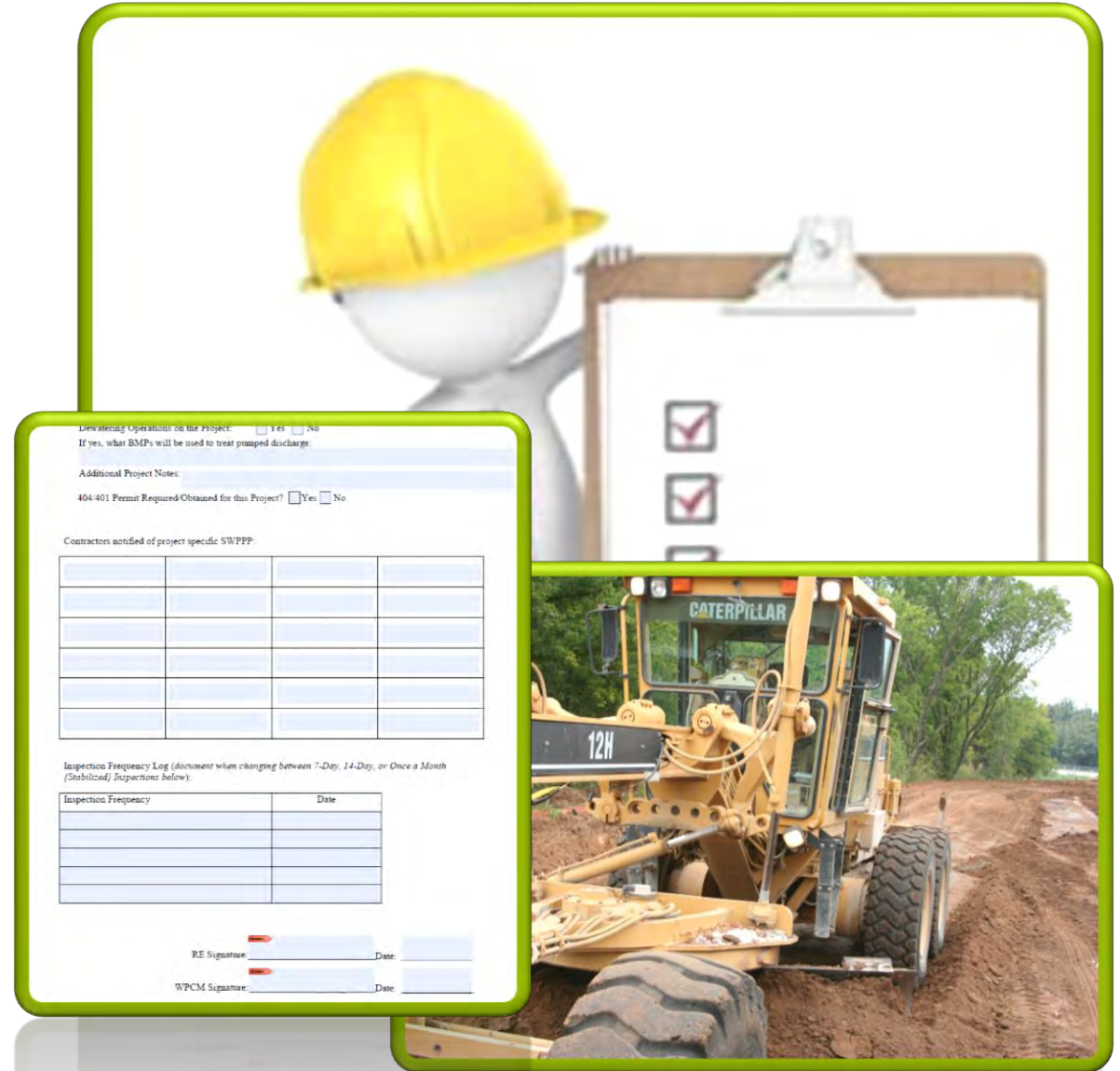
- Discharges from dewatering are prohibited unless treated by an appropriate control;
- If water is being moved via pump, regardless of facility, that is dewatering;
- Appropriate controls shall be detailed in the SWPPP;



Site Inspections

Inspection Frequencies

- Inspections only required during project's normal workday;
- 7- Day Inspections
 - Post-runoff inspections within 48 hrs. following event greater than or equal to 2-year, 24-hour storm event.
- 14-Day Inspections
 - Post-runoff events every 24 hours an event produces 1/4 in. of rain or the occurrence of snow melt.
- 30 Day Inspections
 - Only available to projects with temporary stabilization over entire project while other work continues.
- All inspection frequency changes must be documented in your project specific SWPPP



Site Inspections

Deficiencies

- Structural or Maintenance issues;
- Deficiencies corrected as soon as possible but not later than 7 days from inspection;
- Utilize halt as soon as you know conditions are not favorable for correction;
- New items or items shown in the erosion & sediment control plans are SWPPP amendments or part of the SWPPP and are to be installed as requested;
- New inspection is not required to clear out deficiencies;



Site Inspections

Inspection Observation

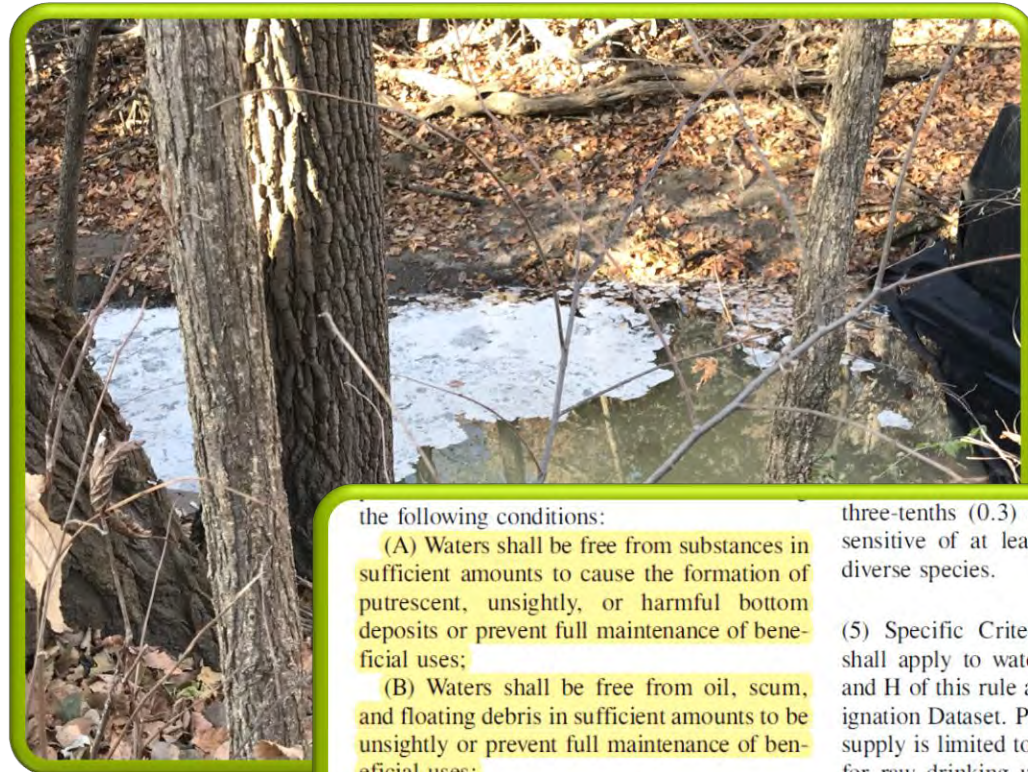
- Inspections are not just to identify deficiencies;
- Observations are required to document the effectiveness of BMPs;
- Should be more than “all BMPs are working effectively;”
- Documents necessary changes to SWPPP.



Water Quality Criteria

10 CSR20-7.031

- 2.5 ml/L no longer applicable;
- Water Quality Criteria and DNR subjectivity will rule;
- Free from oil, scum, unsightly turbidity, that results in toxicity to human and aquatic life.
- Consider this when omitting BMPs;



the following conditions:

(A) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly, or harmful bottom deposits or prevent full maintenance of beneficial uses;

(B) Waters shall be free from oil, scum, and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;

(C) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor, or prevent full maintenance of beneficial uses;

(D) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal, or aquatic life. However, acute toxicity criteria may be exceeded by permit in zones of initial dilution, and chronic toxicity criteria may be exceeded by permit in mixing zones;

(E) Waters shall maintain a level of water quality at their confluences to downstream waters that provides for the attainment and maintenance of the water quality standards of

three-tenths (0.3) of the LC_{50} for the most sensitive of at least two (2) representative diverse species.

(5) Specific Criteria. The specific criteria shall apply to waters contained in Tables A and H of this rule and the Missouri Use Designation Dataset. Protection of drinking water supply is limited to surface waters designated for raw drinking water supply and aquifer protection. Protection of whole body contact recreation is limited to waters designated for that use.

(A) The maximum chronic toxicity criteria in Tables A1, A2, B2, and B3 shall apply to waters designated for the indicated uses given in the Missouri Use Designation Dataset at Tables G and H. All Table A1, A2, B2, and B3 criteria are chronic toxicity criteria except those specifically identified as acute criteria. Water contaminants shall not cause or contribute to concentrations in excess of these values. Table A1 values listed as health advisory levels shall be used in establishing discharge permit limits and management strategies until additional data becomes available.

Public Notification Sign

- Must be accessible to public;
- If route is closed, place signs at each end of the project;
- Must stay posted until final stabilization is achieved;
- Question is on Inspection, inspectors should verifying during each regularly scheduled inspection.



STORMWATER DISCHARGES FROM
THIS LAND DISTURBANCE SITE ARE
AUTHORIZED BY THE MISSOURI
STATE OPERATING PERMIT NUMBER:

M0-0137910

IF YOU HAVE QUESTIONS OR
CONCERNS ABOUT STORMWATER
DISCHARGES FROM THIS SITE,
PLEASE CONTACT THE MISSOURI
DEPARTMENT OF NATURAL
RESOURCES AT


1-800-361-4827

Copies of the SWPPP

- Permittee – MoDOT representative;
- Those responsible for BMP installation;
- Those responsible for maintenance of BMPs;
- Shall have CURRENT copy with them when on site.




Questions about the Permit/SWPPP??



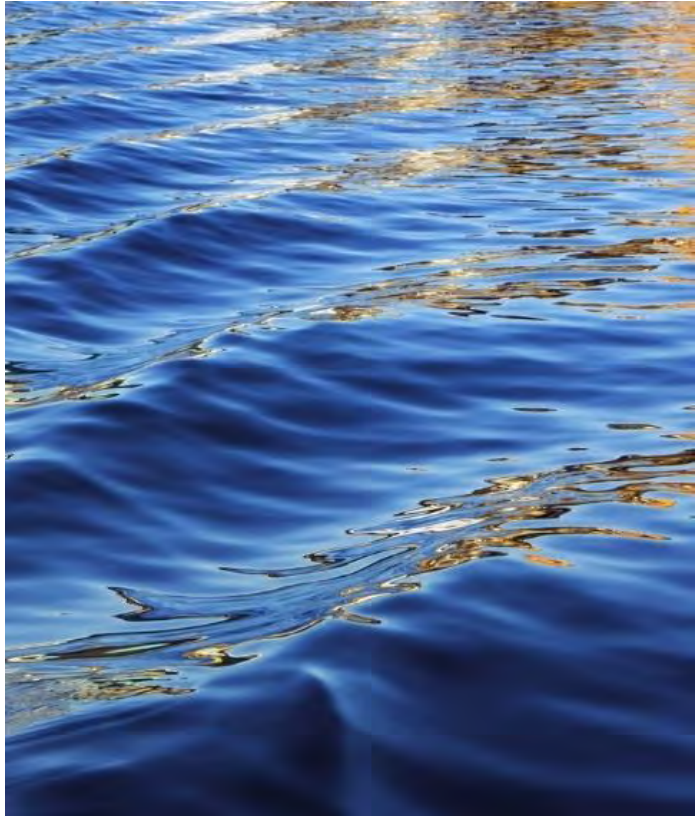
**“How do you know
when your students
are learning?”**

**“When they are
asking the right
questions.”**

David Truss



Stormwater Database Changes



START SLIDESHOW >

◀ Previous | Next ▶

PAGE 2 OF 20

I Hate Slideshow Articles!

LETS GO LIVE!


Land Disturbance Page

- www.modot.org/LD
- One Stop Shop for Land Disturbance;
- QRG's;
- SWPPP Form;
- Public Notification Sign;
- WPCM List;
- N.O.A.A Atlas 14 (2-year, 24-hour rain amount frequencies)


Land Disturbance

EXPLORE THIS TOPIC


- Active Projects Directory
- Policies, Lists and Specifications by Product Types
- Pre-Qualified and Pre-Accepted Product Listings
- Project History Maps
- New Products Qualification
- Bid Opening Info
- Bid Items Listing
- Notice of Intent
- Forms for Contractor Use
- Lead Paint Activities
- Technician Certification Program
- Electronic Design Files
- Land Disturbance



STORMWATER DATABASE



MODOT U



MoDOT U

Username

Password

Login

If you forgot your password, [Click Here](#).
If you forgot your User Name or need help accessing your account, contact the IS Helpdesk at (572)793-5000.

MoDOT U

MoDOT's Land Disturbance Certification Training is now available via video. External Partners wanting to participate in the certification class will need to set up a user account in MoDOT U at the link above.

Click the [Link Here](#) for useful tips on how to use MoDOT U and set up your account.

Click the [Link Here](#) for instructions on finding the certification class in MoDOT U.

Questions about Phase I, II, or III Database Changes

