MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Pollution Control Program Updates

Darcy Bybee
Director
Air Pollution Control Program

August 28, 2018

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Air Pollution Work – Team Effort

- Air Pollution Control Program
- Missouri Air Conservation Commission
- Five Department Regional Offices
  - St. Louis, Kansas City, Northeast (Macon), Southeast (Poplar Bluff), Southwest (Springfield)
- Environmental Services Program
- Local Air Agencies
  - St. Louis County, St. Louis City, Kansas City, Springfield
  - Work dependent on agency
- Local partners

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Missouri’s Air Quality

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Ambient Air Monitoring Trends

- Trends in emissions, such as Sulfur dioxide (SO_2) and Nitrogen oxides (NO_x), are decreasing.
- Area wide criteria pollutant long term monitoring trends are decreasing.

Total Emissions Inventory Questionnaires Collected by Year
Number of EIQs
2,250
2,245
2,240
2,235
2,230
2,225
2,220
2,215
2,210
2,205
2,200
2010
2011
2012
2013
2014
2015
2016
MISSOURI
DEPARTMENT OF
NATURAL RESOURCES
Total EIQs Collected

Permit Type as a Percent of Total Facilities
2016 Emissions Year

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Percentage of Emissions Fees Collected by Permit Type
2016 Emission Year

~ $6.9 Million

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Sulfur Dioxide (SO_2) Emissions from Point Sources in Missouri

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Nitrogen Oxides (NO_x) Emissions from Point Sources in Missouri

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Trends in Eight-Hour Ozone Design Values
St. Louis and Kansas City Areas and Rural Site (Mark Twain)

MISSOURI DEPARTMENT OF NATURAL RESOURCES

(^Quality assured data through December 2017)

St. Louis (Mo.) Trends in $PM_{2.5}$ Design Values Based on Annual Averages, 2003-2017

^Quality assured data through Sept. 30, 2017
^^Near roadway monitor

MISSOURI DEPARTMENT OF NATURAL RESOURCES

^Quality assured data through December 31, 2017
^^Near roadway monitor
" Branch Street is a middle scale (100 meters to 0.5 kilometers) monitor and therefore cannot be compared to the standard

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Missouri Trends in Nitrogen Dioxide (NO_2) Design Values, 2003-2017

^Quality assured data through December 31, 2017
^^Near roadway monitor
~Mark Twain and Rider Trail monitors have been operating for less than three years, so the department cannot compare their data to the standard

MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Website Resources

MISSOURI DEPARTMENT OF NATURAL RESOURCES

MO.gov | Gov. Eric Greitens | Find an Agency | Online Services | Search | Follow Us

Programs | Forms and Permits | Publications | Laws and Regulations | Online Services | Calendar of Events

Air Pollution Control Program

Our mission is to maintain the purity of Missouri's air to protect the health, general welfare and property of the people. Whether urban citizen or rural resident, everyone who lives in Missouri needs and deserves clean air. In other words, the 6 million residents of Missouri are our customers.

Get Updates on this Issue

What has Missouri done to improve our air?

Visit this link for more information on **Missouri Skies Now and Then.**

Which pollutants does EPA monitor most closely?

Click **here** to learn about the six criteria pollutants.

How does the scientific community rate air quality?

With the Air Quality Index we track ozone and particle pollution. This report tells you how clean (or polluted) the air is to help you understand what local air quality means in relation to your health. Each color code corresponds to a different level of health concern. The specific colors of the Air Quality Index makes it easier to understand where the air quality falls on the scale. **More...**

How does Missouri track air pollution?

We track our air pollution with a network of air monitoring sites located around the state. To visit our network of air monitoring sites click on the map.

Convenience Fee Applicable to Credit Card Payments

Effective July 1, 2014, per Chapter 37, Section 37.007, of the Missouri Revised Statutes, a convenience fee will be charged to all customers who wish to pay by electronic method. The convenience fee will be retained by a third-party vendor, Collector Solutions, Inc., not the Missouri Department of Natural Resources.

Transaction Dollar Amount	Fee

- Program Home Page
- Air Conservation Commission
- Air Pollutants
- Air Program Advisory Forum
- Air Quality
- Asbestos
- Clean Power Plan
- Forms and Applications
- Gateway Vehicle Inspection Program
- Laws and Regulations
- NAAQS Boundary Designations
- Ozone
- Permits
- Public Notices-Comment Periods
- QAPP Template
- Air Pollution Compliance/Regulatory Assistance
- State Plans
- Vapor Recovery Information and Compliance Requirements

Contact Information

Air Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102

Monitoring Information- 'Bookmark'

- Design Value Reports
- Preliminary hourly data reports
- Monitoring Network Plans and More
- More improvements coming…

Currently Designated Nonattainment Areas

Legend

- Nonattainment for 2008 Lead Standard
- Nonattainment for the 2010 SO_2 Standard
- Nonattainment for the 2015 Ozone Standard
- Nonattainment for the 2008 Ozone Standard and the 1997 $PM_{2.5}$ Standard

N
W E
S

0 20 40 80
Miles

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Division of Environmental Quality
Air Pollution Control Program
Prepared: May 30, 2018

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Compliance Assistance

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Compliance Assistance

We always are available to assist:

* interpreting rules
* discussing your permit
* helping with compliance

We can visit with you via email, over the telephone, or in person at your site or in our office

Arrange a Visit: dnr.mo.gov/cav/compliance.htm

Compliance Assistance Visit Requests

The Missouri Department of Natural Resources wants to help businesses, communities and industrial facilities better understand the requirements of their environmental regulations – and avoid future violations of those permits. Beginning July 1, 2014, the department's Division of Environmental Quality will offer compliance assistance visits (CAVs) to those regulated by the department. These voluntary visits can be requested by answering the questions below or by contacting one of the department's **regional offices**.

A CAV would be beneficial to a facility faced with a change in permit or regulatory requirements, or when there is a change in operational status or management at the facility. CAVs will assist with understanding regulatory requirements, help with achieving and maintaining compliance, and provide a continuing resource for technical assistance. CAVs are also a good opportunity to ask questions about permits or other environmental requirements.

During a CAV, a department representative will come to the facility to meet with the person requesting the visit, as well as any other staff that person invites. CAVs will vary depending on the nature of the request. In general, the department representative will look at the aspects of the facility requested, go over any requirements, answer questions, offer suggestions and discuss any issues they see that need to be addressed. Upon completion of such a visit, recommendations, if applicable, will be made regarding operations or regulatory compliance. A CAV is not intended to serve as a comprehensive inspection of the facility and will not result in a determination of compliance or noncompliance. However, if any non-compliant issues are observed, the facility will be asked to address them. In addition, it should be noted that if a violation that poses imminent harm to human health or the environment is observed during an assistance visit, the inspector will notify the facility and a compliance inspection will be made.

DNR – Compliance Visit Request

Form to request a compliance visit by DNR Staff

Contact Name *

First Last

Contact Number *

– ### –

Contact Email *

Air Information
Broadcast Email Lists
Commissions and Boards
Commission Meetings and Events
Contact Us
Grants and Loans
Land and Geology Information
News and Multimedia
Organizational Chart
Public Meetings and Notices
Report an Environmental Problem
Rules in Development
Site Directory
Waste and Recycling
Water Information

Contact Information

Department of Natural Resources
P.O. Box 176
Jefferson City, MO 65102
800-361-4827
573-751-3443

Contact Us

Report an Environmental Concern

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Small Business Compliance Assistance – Air Program: dnr.mo.gov/env/apcp/smbus.htm

Air Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102
573-751-4817 (Main)
800-361-4827 (Direct)
573-751-2706 (Fax)
Carlton Flowers

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Volkswagen Overview

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Volkswagen's Violations

In 2015, VW admitted to using software that caused certain diesel vehicles to perform differently during emissions tests so they would pass.

- American consumers bought 590,000 VW and Audi vehicles with these emissions defeat devices
  - Missourians bought 7,500 affected vehicles
- During normal operation, these vehicles emitted nitrogen oxides (NO_x) at levels higher than EPA standards

epa.gov/enforcement/volkswagen-clean-air-act-civil-settlement

Affected VW Vehicles

MISSOURI DEPARTMENT OF NATURAL RESOURCES
Division of Environmental Quality
Air Pollution Control Program
Prepared: May 26, 2017

Source: 2014 Department of Revenue Vehicle Registration Data

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Environmental Mitigation Trust

- Volkswagen to pay $2.9 billion to an environmental mitigation trust fund
- **Missouri's share of trust: $41 million**
- State to use funds to counteract excess NO_x emissions from faulty VW vehicles

MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Two Documents

Beneficiary Mitigation Plan

- Vision and goals
- Award categories and funding levels
- Four elements required by trust
- Public input

Implementation Guidelines

- Selection process and timing
- Target areas
- Cost share and contingency plans
- Public input

Award Categories and Funding Levels

Award Category	Projects	Funding Level
1	School Buses	$12 million
2	Government Trucks	$6 million
3	Transit and Shuttle Buses	$4 million
4	Nongovernment Trucks	$6 million
5	Locomotive and Marine	$2 million
6	Airport and Cargo Equipment	$2 million
7	DERA Option	$3 million
8	Electric Vehicle Charging Stations	$6 million

Estimated Emission Reductions

MISSOURI DEPARTMENT OF NATURAL RESOURCES

MO.gov | Governor Parson | Find an Agency | Online Services | Search

Follow Us

Programs | Forms and Permits | Publications | Laws and Regulations | Online Services | Calendar of Events

Volkswagen Trust Funds

LATEST NEWS

The Missouri Department of Natural Resources finalized Missouri's Beneficiary Mitigation Plan in August 2018. The department developed the 10-year plan to reduce nitrogen oxides (NO_x) from mobile sources after a nine month public engagement process to solicit input from interested stakeholders across the state. The plan outlines Missouri's vision and goals for spending $41 million from the Volkswagen Trust. The federal consent decree governing the Volkswagen Trust requires states to submit these plans to the trustee before making any funding requests for projects. The department also finalized Missouri's Implementation Guidelines Overview, and both documents are available below.

School bus replacements are open for application through Sept. 14, 2018. The department will host an open meeting on Aug. 30, 2018 in Jefferson City to discuss the plan, guidelines, school bus application period, and next steps.

The **department's fact sheet about the VW Trust** contains information on the settlement.

Read Missouri's Plan

See the plan and guidelines.

Stay informed.

Sign up to receive the latest Volkswagen email updates.

Get updates on this issue

Learn more.

Learn about the trust, health effects and more.

Apply for funding.

Access application forms and information.

Apply Here

- Program Home Page
- Air Conservation Commission
- Air Pollutants
- Air Program Advisory Forum
- Air Quality
- Asbestos
- Forms and Applications
- Gateway Vehicle Inspection Program
- Laws and Regulations
- Ozone
- Permits
- Publications and Reports
- Public Notices-Comment Periods
- QAPP Template
- Air Pollution Compliance/Regulatory Assistance
- State Plans and Boundary Designations
- Vapor Recovery Information and Compliance Requirements
- Volkswagen Trust

Contact Information

Air Pollution Control Program

dnr.mo.gov/env/apcp/vw/index.html

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Red Tape Reduction Update

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Red Tape Reduction Overview:

- Executive Order 17-03 filed Jan. 10, 2017
  - Requires review of all rules. Processing rulemakings as result of review
  - Solicit comments. Comments received
  - Take action by June 30, 2018
- Executive Order 18-04 on June 29, 2018
  - Extends the deadline to Sept. 30, 2018

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Program Rule Actions

- Updating incorporations by reference
- Clarifying restrictive requirements
- Adding definitions specific to rules

dnr.mo.gov/redtapereduction/

nomoredtape.com/

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Air Program Contact Information

Air Program's webpage:
dnr.mo.gov/env/apcp/index.html

Darcy.Bybee@dnr.mo.gov

Front desk 573-751-4817

Get Updates on this Issue

MISSOURI DEPARTMENT OF NATURAL RESOURCES

2008 Ozone Standard (75 ppb)

- Based on 2013-2015 air monitoring data, Missouri has attained the standard in St. Louis
  dnr.mo.gov/env/apcp/airpollutants.htm

- EPA is proposing to redesignate the St. Louis area to attainment
  www.gpo.gov/fdsys/pkg/FR-2018-06-25/pdf/2018-13442.pdf

2015 Ozone Standard (70 ppb)

- EPA designated the following areas as:
  - Nonattainment - City of St. Louis; St. Louis and St. Charles counties; and Boles township in Franklin County
  - Attainment/unclassifiable - all remaining Missouri counties
- Infrastructure SIP (Oct. 2018)
- Nonattainment Area Plan (2020)

MISSOURI DEPARTMENT OF NATURAL RESOURCES

2010 SO_2 Standard (75 ppb)

Round 1: Existing Monitors

- 2013: Two nonattainment areas designated (portions of Jackson and Jefferson counties).
- 2018: Attainment for both.

Round 2: Consent Decree

- 2015-2016: Three areas considered. EPA did not designate any nonattainment areas

Round 3: Data Requirements Rule (Modeling)

- Dec 2017: EPA designated remaining areas in Missouri as unclassifiable/attainment.
  - Except Iron and New Madrid counties

Round 4: Data Requirements Rule (Monitoring)

- 4 areas installed new air quality monitors
- 2017-2019: Collect air monitoring data
- Dec 2020: Deadline for EPA designations

SO2 NAAQS Area Designations (2010 1-hour)
2010 1-hour NAAQS
Legend
Nonattainment Areas
Unclassifiable Areas
Undesignated Areas
Attainment/Unclassifiable Areas
N
W
E
S
0 12.5 25 50 75
Miles
MISSOURI
DEPARTMENT OF
NATURAL RESOURCES
Division of Environmental Quality
Air Pollution Control Program
Prepared: January 18, 2018

1997 $PM_{2.5}$ Standard

- Aug. 3, 2018 Federal Register Notice: Proposed approval of the Redesignation Request/Maintenance Plan
- Current monitoring data shows compliance with the NAAQS for both Missouri and Illinois