



**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

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# Water Protection Program Updates



# Public Drinking Water Upcoming Rules

## CONSUMER CONFIDENCE REPORT



Publication of water system  
information and  
contaminant results.

## LEAD SERVICE LINE INVENTORY



First step = Identification of  
service line material

## PFAS



National Primary Drinking  
Water Regulation

# CCR Rule Implementation Timeline

- EPA published the final Consumer Confidence Report (CCR) Rule on May 24, 2024.
- Compliance with the updated requirements begins January 1, 2027.

## CCR Content Requirements



Water System  
Information



Source(s) of Water



Definitions



Detected  
Contaminants



*Cryptosporidium*,  
Radon, and Other  
Contaminants



Compliance with the  
National Primary  
Drinking Water  
Regulations



Variances and  
Exemptions



Additional Educational  
Information

# First Permits with TP and Aggregate Assessment

- Total Phosphorus is coming
- First Aggregate assessment in permit
- $\geq 15$  mgd  $\rightarrow$  1/1/2029
- 1-15mgd  $\rightarrow$  1/1/2033
- Industrial major  $\rightarrow$  1/1/2034

| <u>OUTFALL #001</u><br>main facility wastewater                                                                                                                                                                                                                                                                      | <u>TABLE A-2.</u><br>FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS |              |                       |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------|-----------------------|-------------|
| The facility is authorized to discharge from outfall(s) as specified. These final effluent limitations in Table A-2 are effective beginning <b>January 1, 2029</b> , and remain in effect until expiration of the permit. Discharges shall be controlled, limited, and monitored by the facility as specified below: |                                                                             |              |                       |             |
| eDMR Limit Set: A                                                                                                                                                                                                                                                                                                    |                                                                             |              |                       |             |
| EFFLUENT PARAMETER(S)                                                                                                                                                                                                                                                                                                | UNITS                                                                       | ANNUAL TOTAL | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| Annual Phosphorus Credits ₣                                                                                                                                                                                                                                                                                          | lbs                                                                         | *            | once/year             | documented  |
| Phosphorus Annual Total, After-Credit Load (ACL) X                                                                                                                                                                                                                                                                   | lbs/year                                                                    | 48,500       | once/year             | calculated  |
| MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>MONTH 28, 20XX</u>                                                                                                                                                                                                                |                                                                             |              |                       |             |

| TP NUTRIENT LIMIT (LBS) | TP LOAD DISCHARGED (LBS) | TP CREDITS GENERAGED (LBS) | TP CREDITS NEEDED (LBS) | APPLIED CREDITS (LBS) | AFTER-CREDIT LOADS (LBS) |
|-------------------------|--------------------------|----------------------------|-------------------------|-----------------------|--------------------------|
| 456,000                 |                          | 0                          | 0                       |                       |                          |
| 508,000                 |                          | 0                          | 0                       |                       |                          |
| 63,900                  |                          | 0                          | 0                       |                       |                          |
| 115,000                 |                          | 0                          | 0                       |                       |                          |
| 122,000                 |                          | N/A                        | 0                       |                       |                          |
| 48,500                  |                          | N/A                        | 0                       |                       |                          |
| <b>1,313,400</b>        | <b>0</b>                 | <b>0</b>                   | <b>0</b>                | <b>0</b>              | <b>0</b>                 |
|                         | <b>AGGREGATE</b>         | <b>0</b>                   | <b>0</b>                |                       |                          |

# The World in which we work

“Social media is a very powerful tool. It also gives power to tools.”

-Chris Young



“Social media is the ultimate equalizer. It gives a voice and a platform to anyone willing to engage..”



“If the internet has taught us anything, it’s that sometimes it’s easier to speak our minds anonymously.”

- Ted Lasso



“There are many things of which a wise man might wish to be ignorant.”

-Ralph Waldo Emerson

# Social Media, Internet and the Truth?

**Animal Agriculture Uses 130x the Water of Every US Data Center**  
Share of total US freshwater consumptive use. Data centre figures include water consumed generating their electricity.



| Category           | Share of total US freshwater consumptive use |
|--------------------|----------------------------------------------|
| Animal Agriculture | 40.60%                                       |
| US Data Center     | 0.31%                                        |

**Conclusion: Finding a Balance Between Bytes and Drops**  
Data centers are here to stay – they are the backbone of our digital life, from streaming to already reporting that baby calves born in data centers are delivering stillborns. This should be sounding every alarm for public safety.

**Do Data Centers Emit Radiation? A Clear Answer for Concerned Communities**

**The Dangers of Data Centers**

Data Centers are large facilities containing computer servers used for data storage, data analytics, generative AI, and streaming services. Data centers represent health risks for their neighbors. These risks are especially high from hyperscale data centers powered by fossil fuels, such as those proposed for some parts of Pennsylvania. Listed below are some of the top problems data centers impose on nearby communities.

## Mind-Blowing Growth Is About to Propel Anthropic Into Its First Profitable Quarter

The startup expects a 130% revenue surge to \$10.9 billion in the June quarter and its first operating profit, defying skeptics of the AI boom

By Berber Jin Follow

Updated May 20, 2026 4:54 pm ET

## SpaceX, Anthropic and OpenAI's Sprint to Go Public Defines the AI Boom's Big Day

Silicon Valley's hottest startups are competing fiercely as big tech companies jockey for public investors and hard choices

Follow

am ET

86

Gift unlocked article

Listen (6 min)

## SpaceX IPO bets \$2 trillion on Musk's ambitious rockets-to-AI vision

By Akash Sriram

May 21, 2026 3:22 AM PDT · Updated 14 mins ago

# Storage and Land Application



TANKS



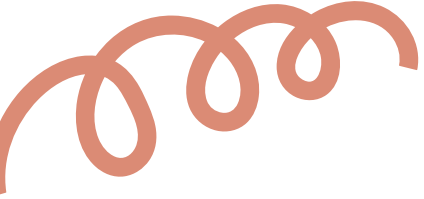
LAND APPLICATION



HEARINGS



**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

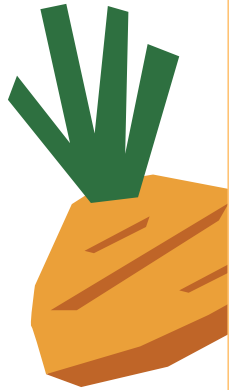


# COMPOSTING

Compost is basically a natural process where organic materials are broken down into simpler materials by microorganisms and decomposing organisms.

This practice not only allows us to turn organic waste into fertilizer that benefits the soil, but also helps reduce the volume of waste that ends up in landfills.





# WHAT LOOKS LIKE COMPOST... BUT ISN'T



Industrial Wastewater  
Industrial Wastewater Treatment Residuals  
Industrial Process Waste

## Source Matters!

Industrial,  
distribution,  
manufacturing,  
recycling,  
processing

Food residuals  
organic materials  
sludge  
residuals

other process  
waste

Meat Processors  
Food Processors  
Pet Food  
Manufacturing

Recycling Facilities  
Biofuel Remnants  
Collection Sites

Direct to consumer  
locations' materials  
may still be  
compost!

Yard Waste may still  
be compost!

Grocery Stores  
Restaurants  
Bakeries  
Farmer's Markets  
Farm Stands

**NOT COMPOST!!**

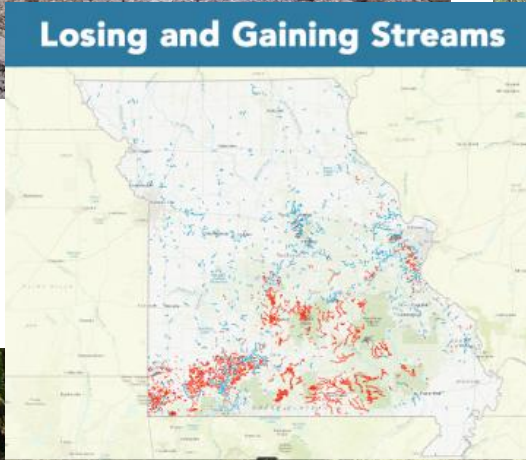
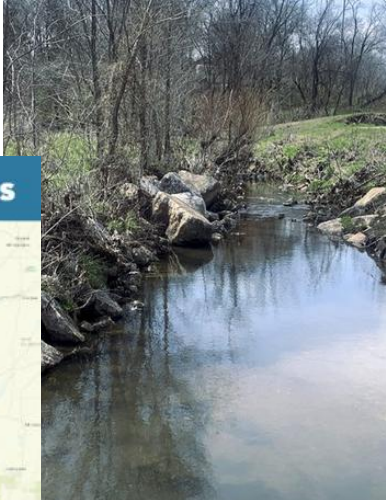
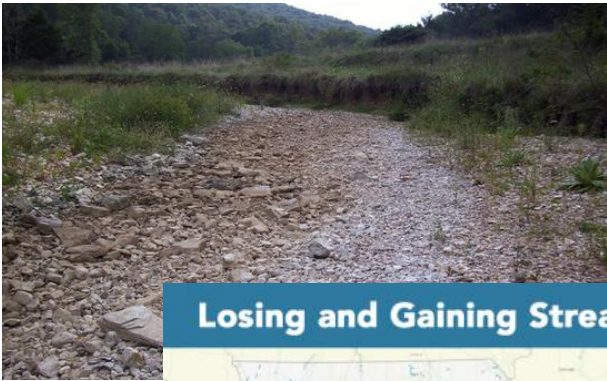
**Still Compost!**



# THE PALLET OF ONIONS



- *Important to protect*
- *Conduit to groundwater*



# Losing Streams



Geohydrologic  
Feature



Connects to  
Groundwater



Effluent Limitations



Operation & Design  
Limits

# ***Losing Streams***



Designated Use



Not tied to WOTS



Impairment *E. coli*  
only



Reviewed in LMD

# 303 (d) list

...to restore and maintain our waters

# EPA Approved

- 47 delistings
- 90 new listings

|                                                                                 |                                                                                  |                                                   |  |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------|--|
|  |  | <b>Missouri Department of Natural Resources</b>   |  |
|  |  | <b>2024-2026 Section 303(d) List</b>              |  |
|                                                                                 |                                                                                  | <b>Summary of Proposed List for Public Notice</b> |  |

| Number of Current Listings By Cycle |               |
|-------------------------------------|---------------|
| Cycle Year First Listed             | # of Listings |
| 2002                                | 24            |
| 2006                                | 66            |
| 2008                                | 25            |
| 2010                                | 31            |
| 2012                                | 55            |
| 2014                                | 44            |
| 2016                                | 53            |
| 2018                                | 31            |
| 2020                                | 89            |
| 2022                                | 36            |
| 2026                                | 89            |
| <b>Total</b>                        | <b>543</b>    |

| Pollutants on 2026 List                  |               |             |
|------------------------------------------|---------------|-------------|
| Pollutant                                | # of Listings | %           |
| Escherichia coli                         | 145           | 26.75%      |
| Nutrients/Chlorophyll                    | 122           | 22.51%      |
| Oxygen, Dissolved                        | 75            | 13.84%      |
| Metals                                   | 71            | 12.92%      |
| Mercury in Fish Tissue                   | 63            | 11.62%      |
| Chloride                                 | 32            | 5.90%       |
| Aquatic Macroinvertebrate Bioassessments | 12            | 2.21%       |
| pH                                       | 7             | 1.29%       |
| Temperature, water                       | 4             | 0.74%       |
| Ammonia, Total                           | 3             | 0.55%       |
| Sedimentation/Siltation                  | 3             | 0.55%       |
| Fishes Bioassessments                    | 2             | 0.37%       |
| Sulfate + Chloride                       | 2             | 0.37%       |
| Atrazine                                 | 1             | 0.18%       |
| Polycyclic Aromatic Hydrocarbons-PAHs    | 1             | 0.18%       |
| <b>Total:</b>                            | <b>543</b>    | <b>100%</b> |

| Sources on 2026 List                  |               |        |
|---------------------------------------|---------------|--------|
| Sources                               | # of Listings | %      |
| Nonpoint Source                       | 228           | 40.07% |
| Source Unknown                        | 65            | 11.42% |
| Atmospheric Deposition - Mercury      | 63            | 11.07% |
| Urban Runoff/Storm Sewers             | 62            | 10.90% |
| Mining Related                        | 58            | 10.02% |
| Point Source                          | 46            | 8.08%  |
| Impervious Surface/Parking Lot Runoff | 28            | 4.92%  |
| Channelization                        | 10            | 1.76%  |
| Subsurface, Hardrock, Mining          | 5             | 0.88%  |
| Rural, Residential Areas              | 2             | 0.35%  |
| Acid Mine Drainage                    | 1             | 0.18%  |
| Impacts, Flow Regulation/modification | 1             | 0.18%  |
| Natural Sources                       | 1             | 0.18%  |

| Use Impairments for 2026 List |               |             |
|-------------------------------|---------------|-------------|
| Use                           | # of Listings | %           |
| WWH                           | 329           | 60.52%      |
| WBC B                         | 82            | 15.13%      |
| HHP                           | 62            | 11.44%      |
| WBC A                         | 39            | 7.20%       |
| SCR                           | 24            | 4.43%       |
| GEN                           | 4             | 0.74%       |
| DWS                           | 2             | 0.37%       |
| CDH                           | 1             | 0.18%       |
| <b>Total:</b>                 | <b>543</b>    | <b>100%</b> |

Lake

# TMDLs

## Total Maximum Daily Loads

- Pomme de Terre Lake
- Spring River
  - Dry Hollow Creek
  - Honey Creek
  - Williams Creek
  - Truitt Creek
  - White Oak Creek
  - North Fork Spring River
  - Dry Fork
  - Opossum Creek
  - Duval Creek
  - Slater Branch
- Pomme de Terre River
- Lamine River



<https://dnr.mo.gov/water/what-were-doing/water-planning/total-maximum-daily-loads-tmdls>

# TMDLs & more

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- Lake St. Louis- 9-element watershed based plan
- Advanced Restoration Plan- 25 chloride impaired streams
- QUAL2K Elkhorn Creek
- Update other watershed based plans



<https://dnr.mo.gov/water/what-were-doing/water-planning/total-maximum-daily-loads-tmdls>

# Ammonia - Still Coming Soon!

- *Procedure for Applying Mussels Absent Ammonia Criteria in Missouri Surface Waters* published
- Regulatory Impact Report coming soon
- Variances continue to be considered
- Variances- APPLY NOW!!



# Clean Water Commission Changes

## Policies

- Dozens (1970-1996)
- Outdated
- Regulate through law and rules

**Rescinded July 15, 2026**

## Procedures

- No official procedures
- Two drafts
- SB953
- Removes restrictions
- Requires procedures
  - Conflict of Interest

**Under Review**



# We invite you to Get Involved!

Roaring River State Park

*Stewardship • Integrity • Collaboration • Respect • Innovation*