



# Missouri's Gulf Hypoxia Program Workplan

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## Approach to Missouri's Workplan

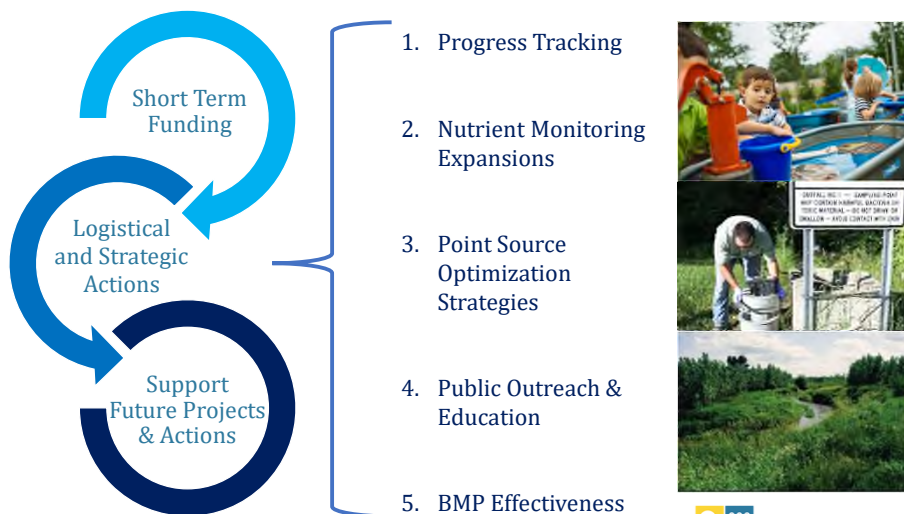


Photo 1 Courtesy of St. Louis Science Center



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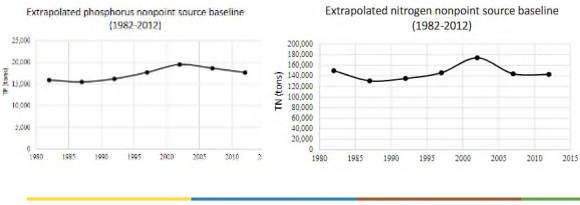
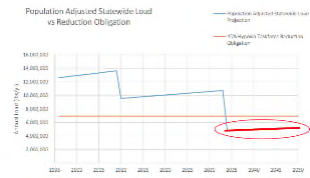
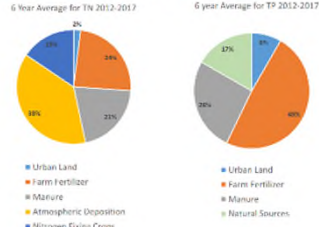
# Project 1: NLRs Progress Dashboard

**Project Budget:** \$299,997

**Summary:**  
Develop a public, web-based, interactive progress tracking dashboard for the purpose of measuring success and publicizing data and performance indicators relevant to various Nutrient Loss Reduction Strategy goals and initiatives.

**Anticipated Completion Date:**  
Before January 1, 2025

## NPS Baseline 2012 - 2017 Average

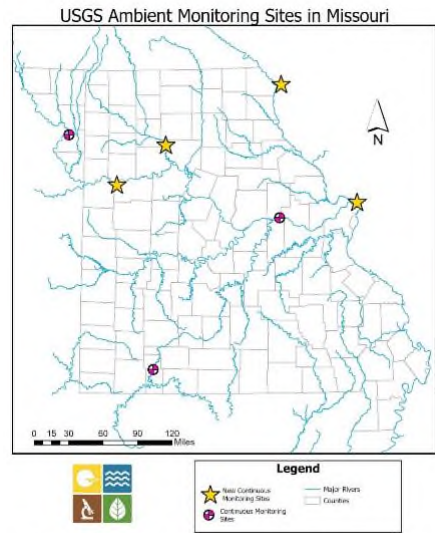


# Project 2: Continuous Nutrient Monitoring Expansions

**Project Budget:** \$1,386,186

**Summary:**  
Install and maintain continuous nitrate monitors at four key monitoring locations:  
 - Missouri River @ Napoleon  
 - Grand River near Sumner  
 - Mississippi River @ Keokuk  
 - Mississippi River @ Alton

**Anticipated Dates:**  
Installation in CY2023.  
Monitoring through 2027  
(and beyond?).



Disclaimer: Although this map has been compiled by the Missouri Department of Natural Resources, its accuracy, completeness, or timeliness is not guaranteed. The user of this map and any products made from it is responsible for assessing the accuracy of the data and any related materials. The user of this map and any products made from it is responsible for assessing the accuracy of the data and any related materials.

## Project 3: Municipal Nutrient Removal Optimization Pilot

Project Budget: \$175,489

### Summary:

Evaluate strategies at six pilot municipal wastewater facilities to optimize operation and maintenance practices to reduce nutrient loads without incurring large capital expenses.

Strategies learned or confirmed through this pilot will then be communicated across the broader municipal wastewater community.

### Anticipated Completion Date:

Before January 1, 2026



Photo Courtesy of City of Springfield, MO



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## Project 4: Public Outreach & Education Exhibit & Program

Project Budget: \$299,997

### Summary:

A partnership with St. Louis Science Center (a Smithsonian Institution Affiliate) to leverage their expertise in science communication, outreach, and marketing to design, develop, and implement a public awareness exhibit and outreach program to raise awareness of Gulf Hypoxia, prime causes, and collective solutions.



### Anticipated Dates:

Planning and Development through 2023.

Program/Exhibit Launch 2024/2025.

Maintenance and Implementation through 2027 (beyond?).



Photos Courtesy of St. Louis Science Center. Learn more at [www.slscc.org/exhibits-attractions/grow/](http://www.slscc.org/exhibits-attractions/grow/)

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## **Project 5: SWCP's BMP Effectiveness Monitoring**

**Project Budget:** \$299,997

### **Summary:**

A partnership with Lincoln University Cooperative Extension to perform a study aimed at further refining nutrient loss reduction estimates for common agricultural best management practices, with an emphasis on grazing/livestock management practices.

**Anticipated Completion Date:**  
By January 1, 2026



*Photo Courtesy of Missouri Soil & Water Conservation Program.*



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## **Supporting Links & Documents**

You can view Missouri's Nutrient Loss Reduction Strategy here: <https://dnr.mo.gov/water/what-were-doing/water-planning/nutrient-loss-reduction-strategy>

Thanks!  
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