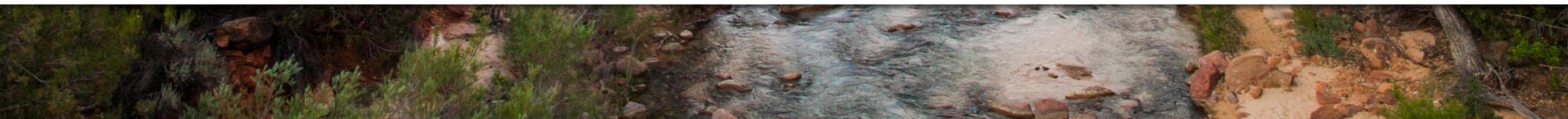




UTAH DEPARTMENT of  
**ENVIRONMENTAL  
QUALITY**

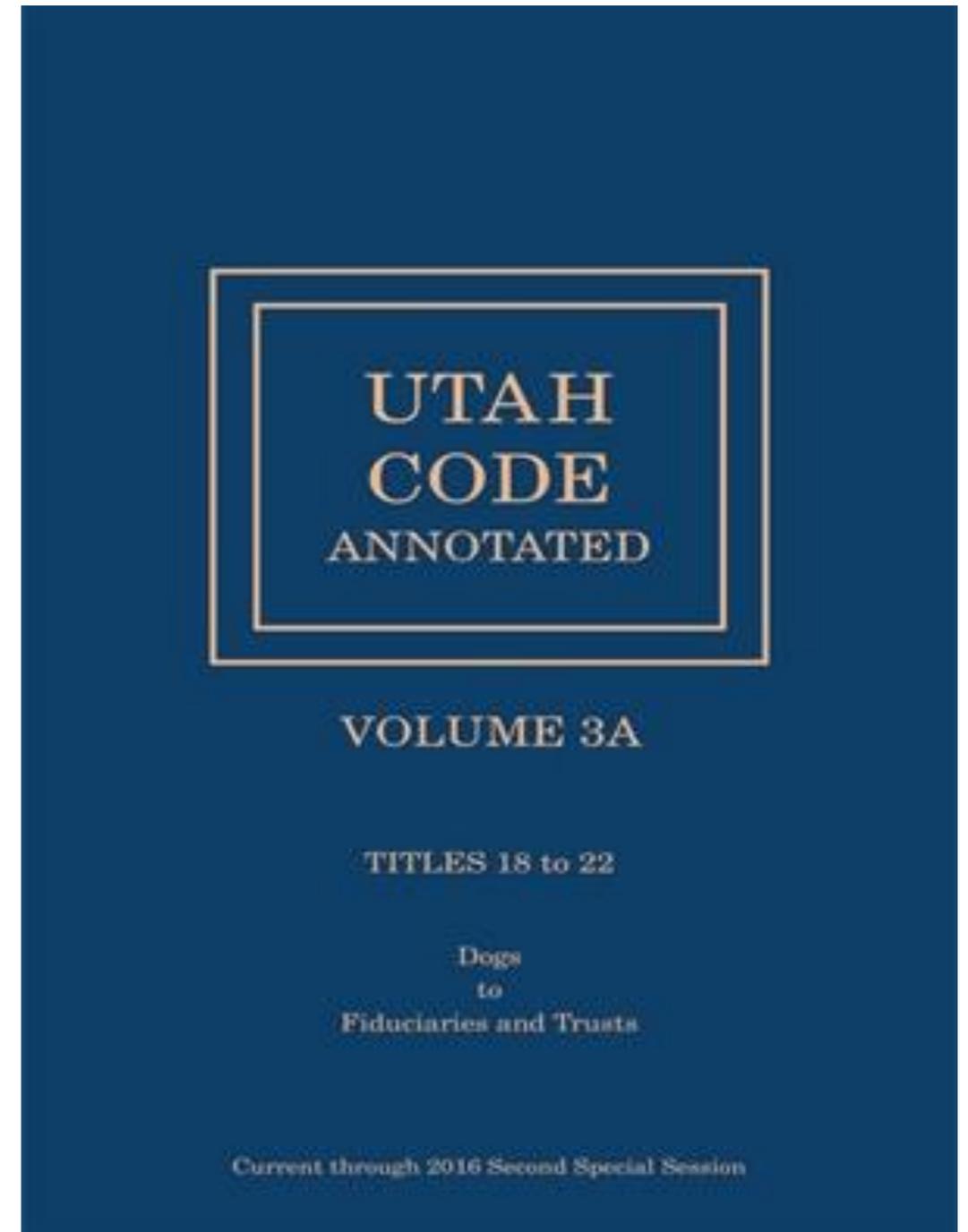
**APPROPRIATIONS  
SUBCOMMITTEE 2017**



# Legislative Purpose

## Utah Code 19-1-102

(3) Safeguard public health and quality of life by protecting and improving environmental quality while considering the benefits to the public health, the impacts on economic development, property, wildlife, tourism, business, agriculture, forests, and other interests, and the costs to the public and industry.



# Our Mission



**Safeguarding and improving Utah's air, land, and water through balanced regulation**



# Our Vision



**Clean air, land, and water for a healthy and prosperous Utah**



# Exceptional Service

We are public servants committed to the people of Utah and our customers. We solve problems, actively engage our stakeholders, and are professional, responsive, and fair.



# Commitment to Employees

We value our dedicated employees as our greatest asset. We treat each other with respect, foster professional development, and celebrate our individual and collective contributions.



# Credibility and Trust

We earn the public's trust by showing we care, demonstrating expertise in our work, and basing our decisions on science and the law. We act with integrity and make accurate and reliable information accessible to the public.

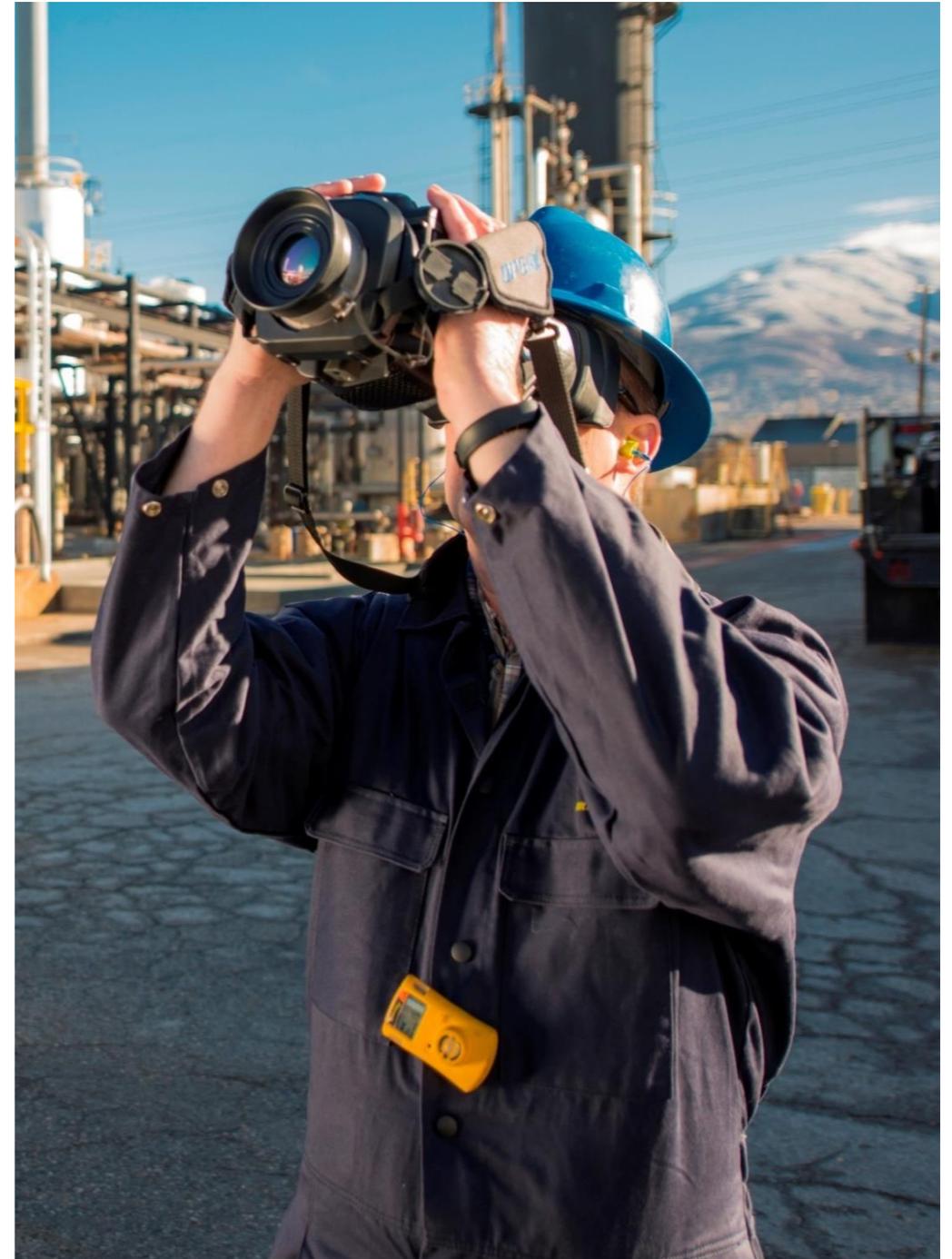


# Ask DEQ, Not Phil



# Continuous Improvement

We are accountable for taxpayer dollars. We improve our performance and implement innovations that advance quality, efficiency, and effectiveness.



# Continuous Improvement

- Deputy Director dedicated to operational improvement
- DEQ, along with DOH, have the most systems in the SUCCESS Framework
  - Division of Drinking Water engineering plan review of waterlines
  - Division of Water Quality online storm water permitting



# State of the Environment Report



[report.utah.gov](https://report.utah.gov)



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# Success Stories

- STEPP Program Uinta Basin
- Winter PM<sub>2.5</sub> study
- CARROT program
- Harmful algal bloom response
- Tibble Fork spill response
- Financial assistance for drinking water construction projects
- Park City Heights Voluntary Cleanup site
- Ogden Business Exchange Voluntary Cleanup site
- Centro Civico Mexicano
- Tooele Army Depot South munitions destruction
- Hill Air Force Base degreaser project

# What Our Customers Say

*“If it wasn’t for DEQ, this project would have never happened. The staff met with us, gave us advice, and helped us every step of the way. We are grateful for DEQ’s support in making our new community center and senior housing project possible.”*

**Brandy Farmer, President/CEO  
Centro Civico Mexicano**



# What Local Governments Say

*“We are grateful for the collaborative relationship that exists between (DAQ) and our local research team. This type of targeted approach **helps us improve our air quality while maintaining responsible economic development.**”*

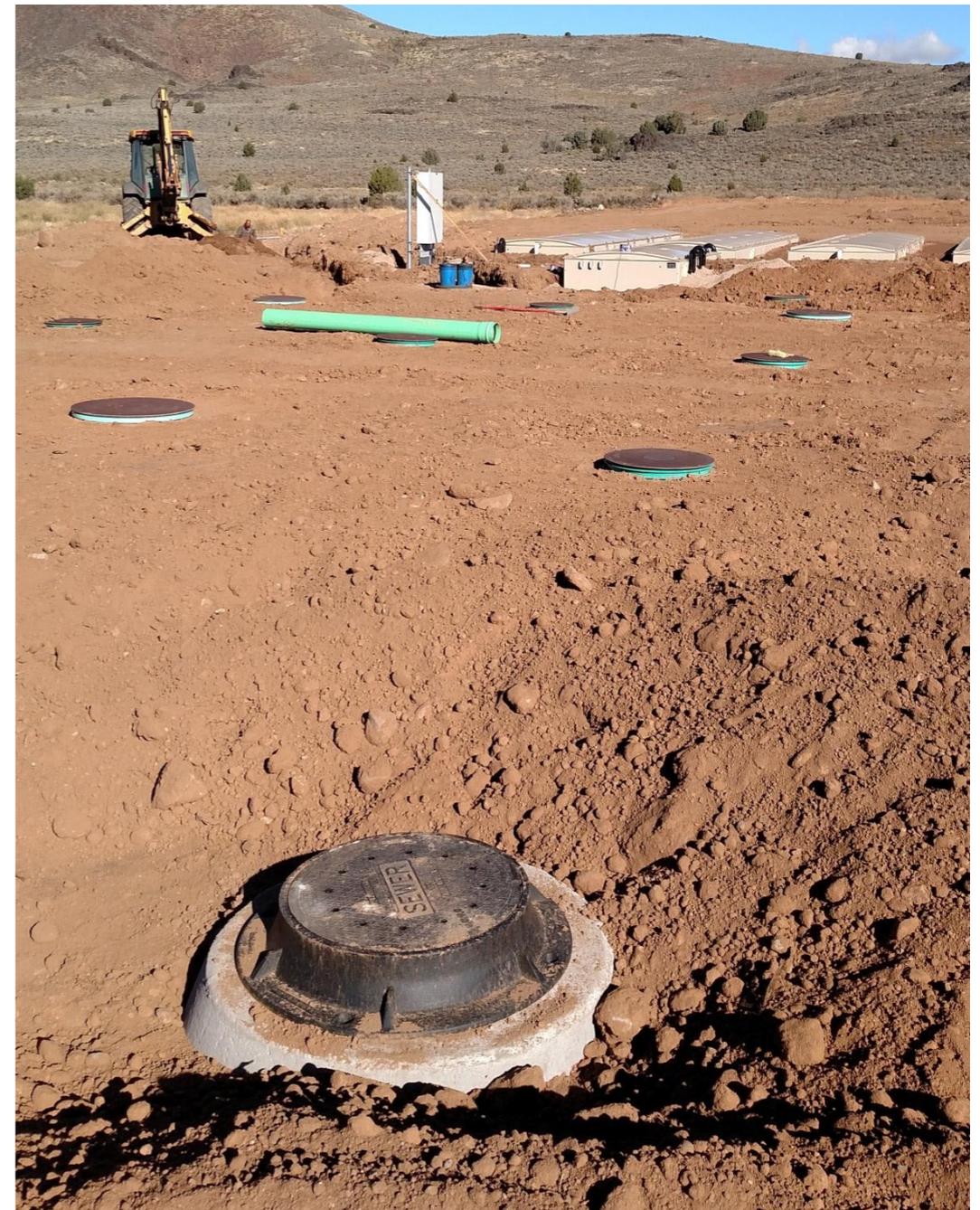
**Paul Hacking, Executive Director,  
Uintah Impact Mitigation Special  
Services District**



# What Local Water Districts Say

*“(We) commend (DWQ) on its professional and proactive approach to tackling the difficult issue of wastewater management for Dammeron Valley. (DWQ) was consistently professional, industrious, and collegial with our staff and also treated the developer with great courtesy and professionalism ... (i)t has been a pleasure working with DWQ on this matter.”*

**Ron Thompson, General Manager,  
WCWCD**



# What the Public Says

*“We arrived at about 8:45 to find everyone waiting and willing to process us through. We were in and out in less than 10 minutes! Thanks again for all you guys do! I’m just learning about ‘my part’ in all of this and look forward to more environment saving ideas! **You are NOT the typical stereotyped government employees!**”*

Comment on DEQ Facebook page regarding the Lawn Equipment Exchange



# A Look Forward



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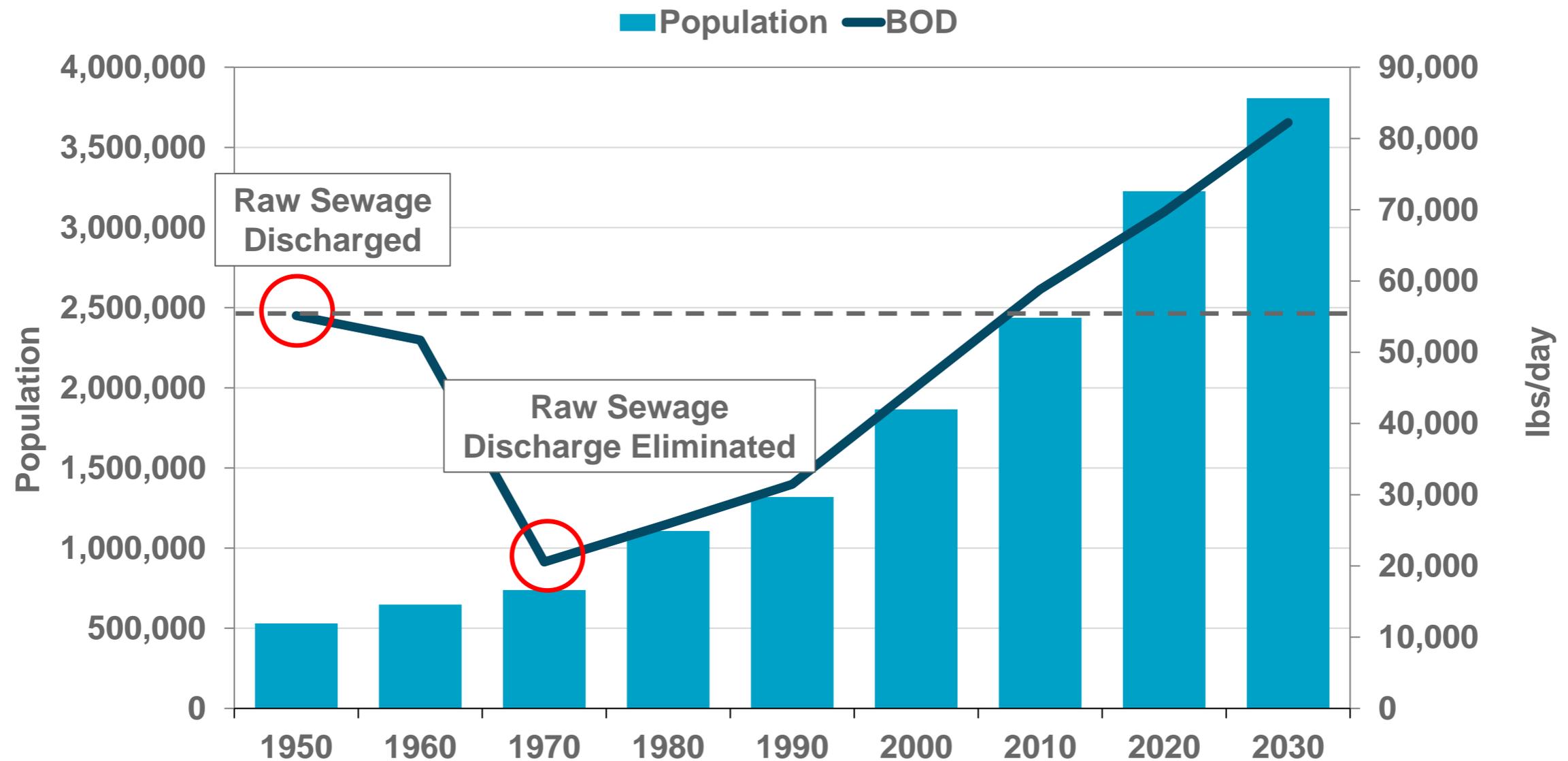
# Challenges

- Increased federal environmental regulations
  - Serious PM<sub>2.5</sub> State Implementation Plans
  - Ozone State Implementation Plans
  - Lead in schools
- Rapid growth
- Changing public expectations for information and participation
- Technical complexity of environmental issues
- Limited federal and state resources for programs

# Consequences of Population Growth

## Wastewater Treatment and Utah's Population

### Utah Growth / BOD<sub>5</sub> Loading to State Waters

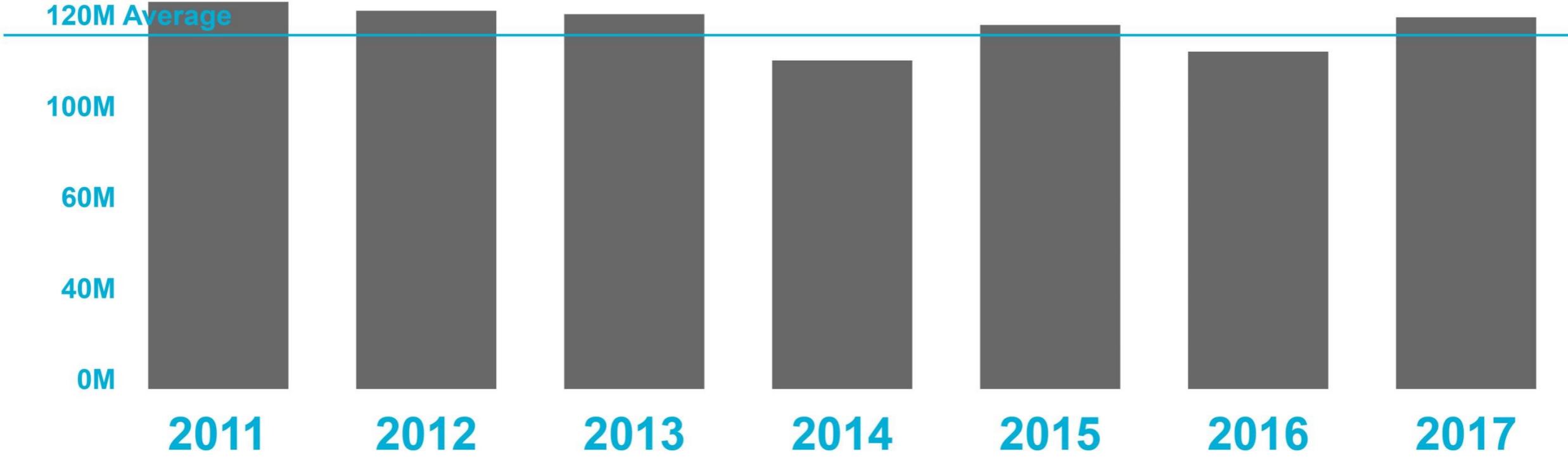


# Growing Demand, Fewer FTEs

## Full Time Employees

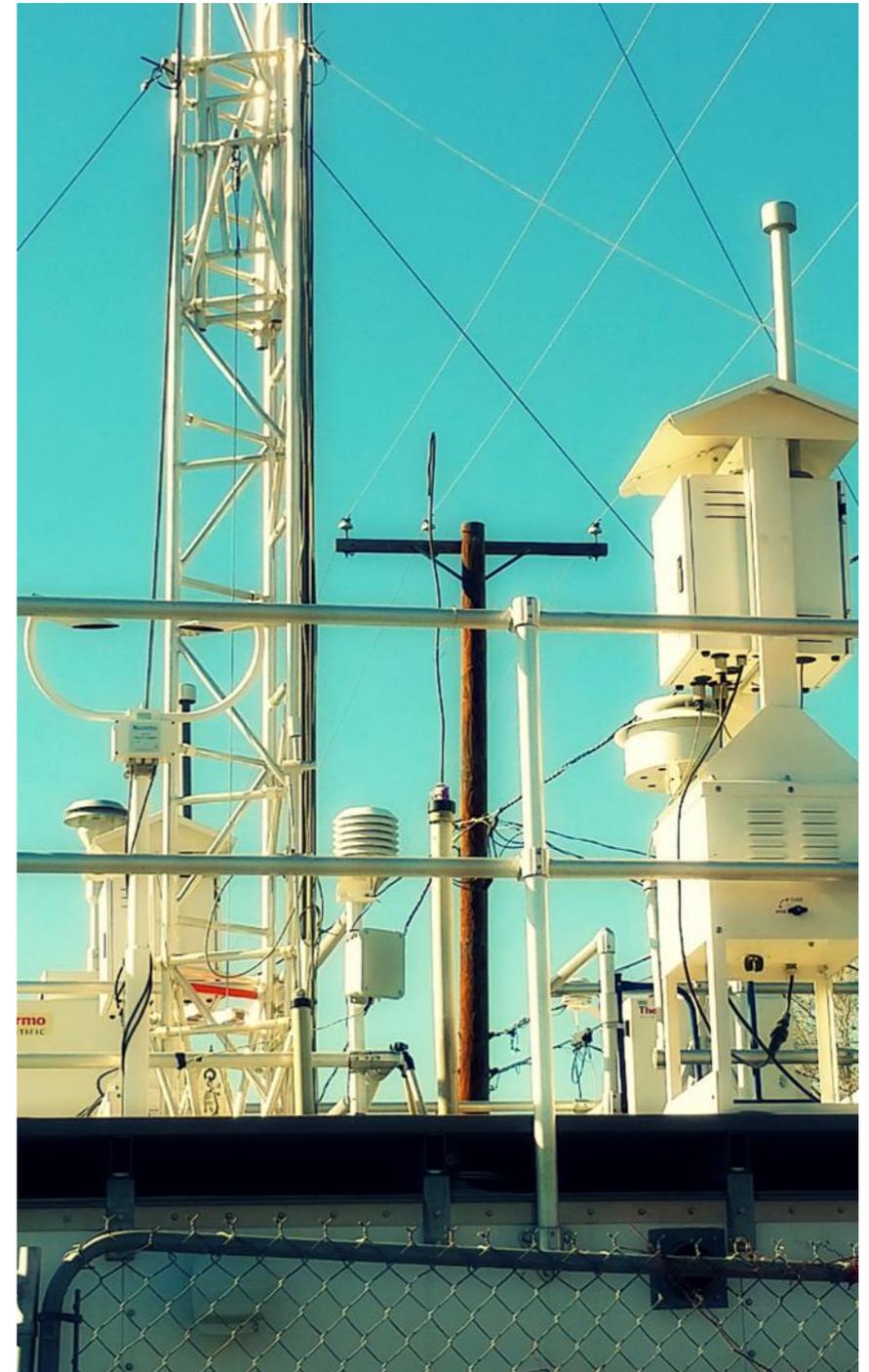


## Funding



# Governor's Budget Recommendations

- Air Monitoring Equipment
- Air Quality Research
- Harmful Algal Bloom Response
- Spills Coordinator
- Peak Water-Use Study





AIR  
QUALITY

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# Programs

- Air Monitoring
- Planning
  - PM<sub>2.5</sub> State Implementation Plans
  - Ozone State Implementation Plans
  - Regional Haze State Implementation Plan
- Air Quality Research
- Permitting
- Compliance

# STEPP Program Uinta Basin

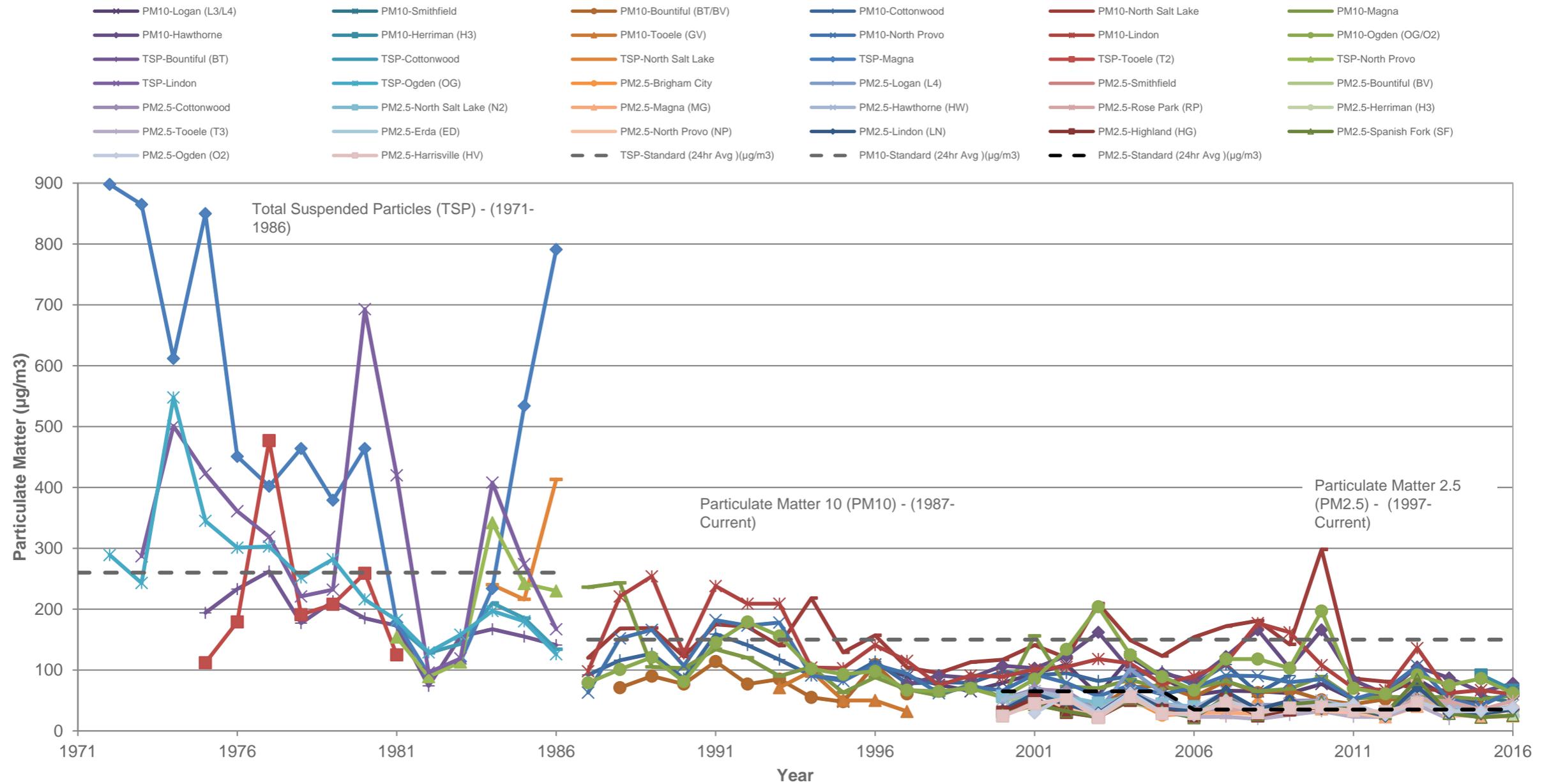


# Winter Fine Particulate Study



# Improved Air Quality Over Time

## Particulate Matter (PM) Standards - 24-Hour



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# Continuous Improvement

- Statewide oil and gas inspections
  - Inspections on a priority schedule
  - Facility location mapping to reduce travel time
  - Tablets for data input
  - Infrared camera to detect leaks
- Oil and gas permitting
  - General Approval Orders to streamline permit processing
  - Pre-meetings to ensure applications are complete
- Operating permits
  - Process improvements to reduce Title V permit extensions
- New Source Review permits
  - Pre-meetings to ensure applications are complete
  - Guidance documents to assist permittees
  - Permit time clock started when completed application received, not before



**WATER  
QUALITY**

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# Programs

- Permitting
  - Municipal and industrial discharges
  - Construction permits for wastewater facilities
  - Storm water permits
  - Ground water permits
  - 401 Water Quality Certifications
- Incident response
- Wastewater engineering review and funding
- Watershed planning and Total Maximum Daily Load analyses
- Surface and ground water monitoring and assessment
- Water quality standards

# Harmful Algal Bloom Response



## Utah Lake

- Lake closure for 2 weeks in July 2016
- 200+ illnesses reported to Poison Control
- Secondary irrigation in SL County affected
- Fast response by DWQ, Utah County Health, and SL County Health  
Departments prevented additional public health impacts



## Scofield Reservoir

- Reservoir closure for 2 weeks in Sept 2017
- Drinking water supply for Price and Helper threatened
- Fish and bat kill
- Multi-agency response protected public health and drinking water supplies

# Gold King Mine Spill Response

## Response Costs

- **DEQ: \$463,901**
- Attorney General: \$4,950
- Natural Resources: \$5,810
- Public Safety: \$4,473
- San Juan County: \$19,360

**TOTAL: \$498,495**

## Reimbursements to DEQ

**\$ 411,120 to date**

(Long-term costs not included in these figures)



# Reductions in Nonpoint-Source Pollution

## San Pitch River Restoration Sanpete County

- Reduced 6,168 and 1,976 pounds/year of nitrogen and phosphorus runoff
- Restored 1.6 miles of river
- Provided and leveraged \$7.9 Million to landowners for nonpoint source pollution projects
- Involved 1,048 citizen volunteers in water-quality monitoring

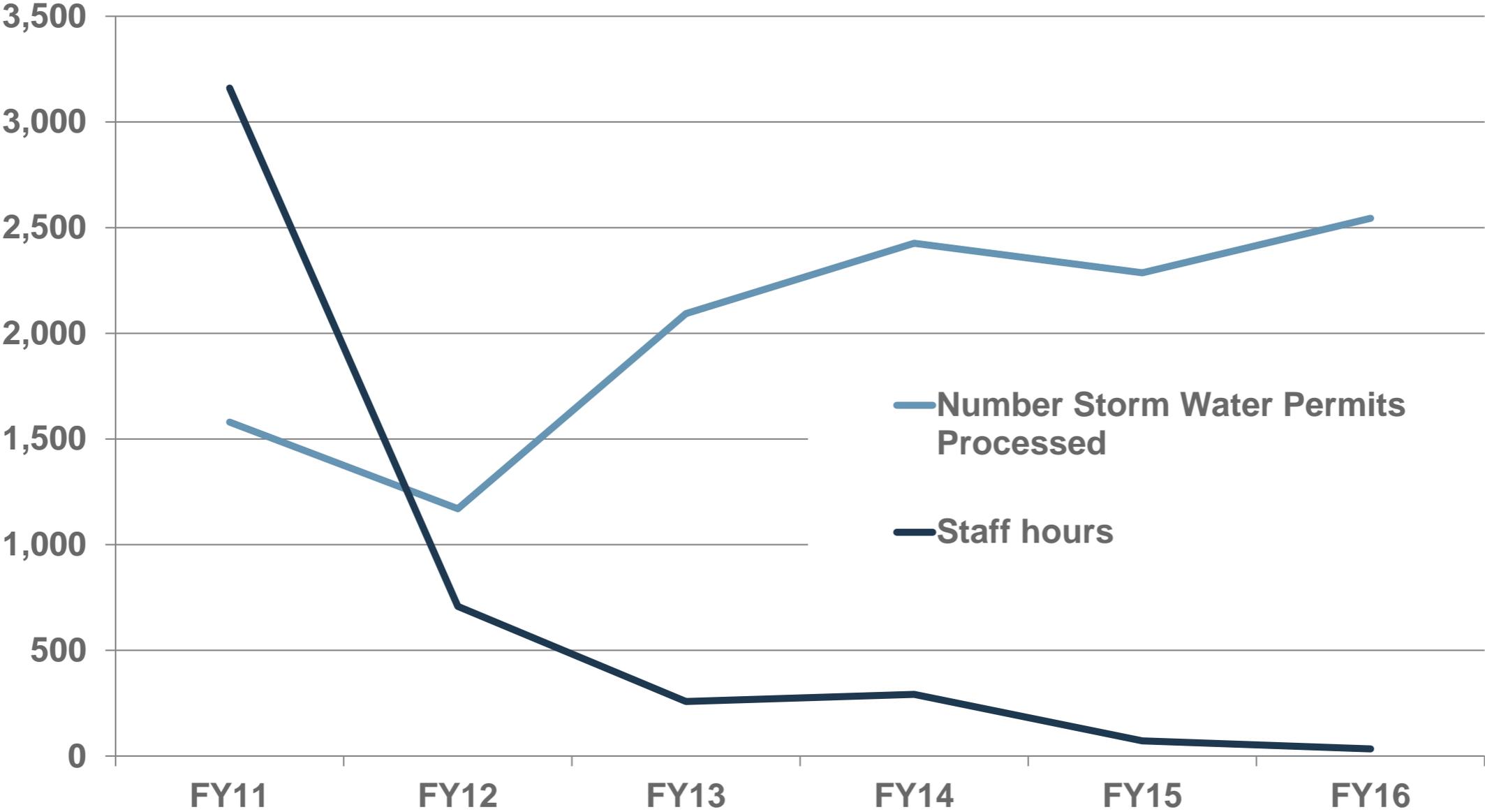


# Willard Spur

Multi-year study averted threatened litigation from environmental advocacy groups and resolved permit issues associated with discharge to a complex and highly valued ecosystem, the Willard Spur in the Great Salt Lake.

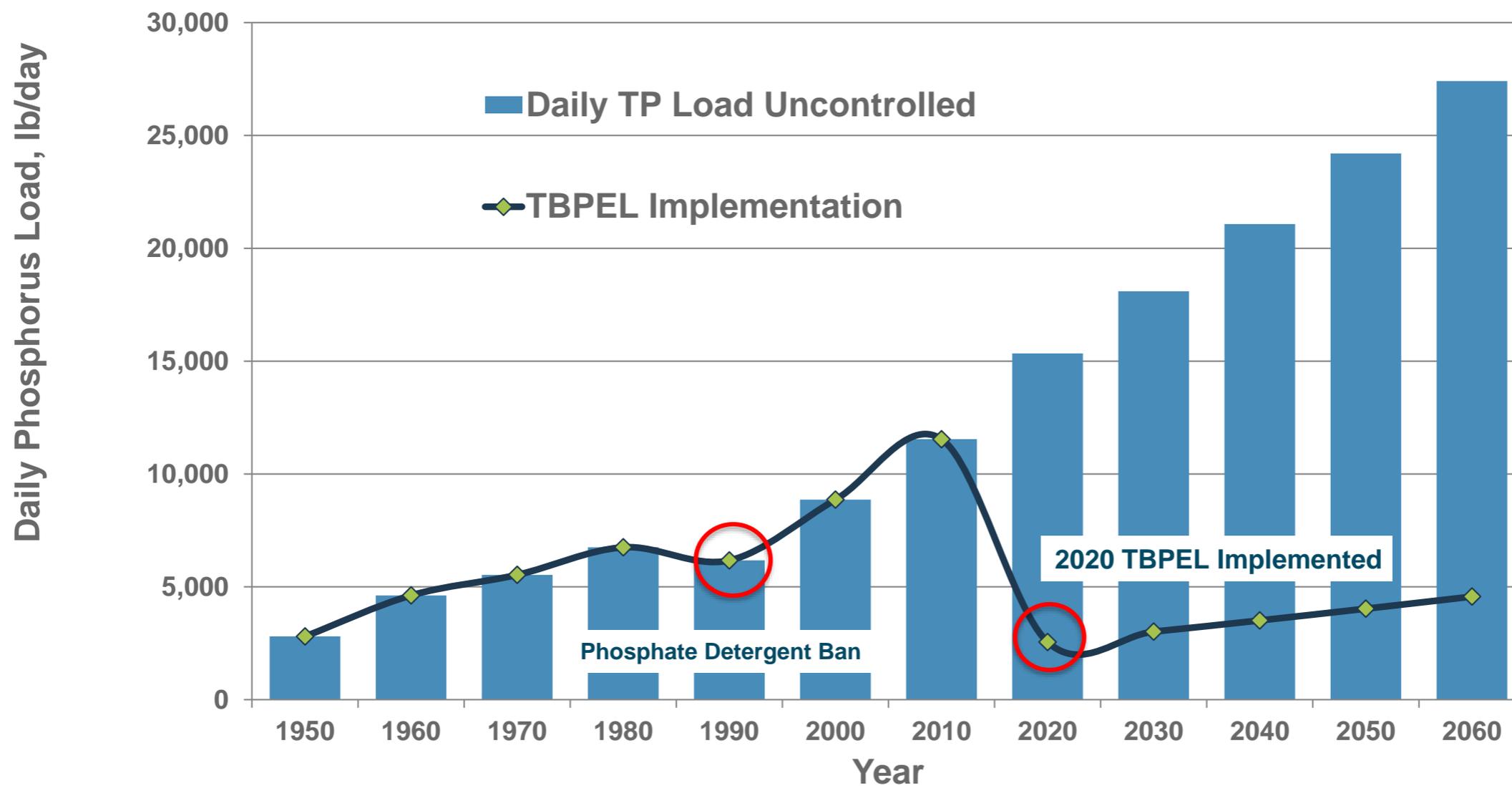


# Storm Water Success



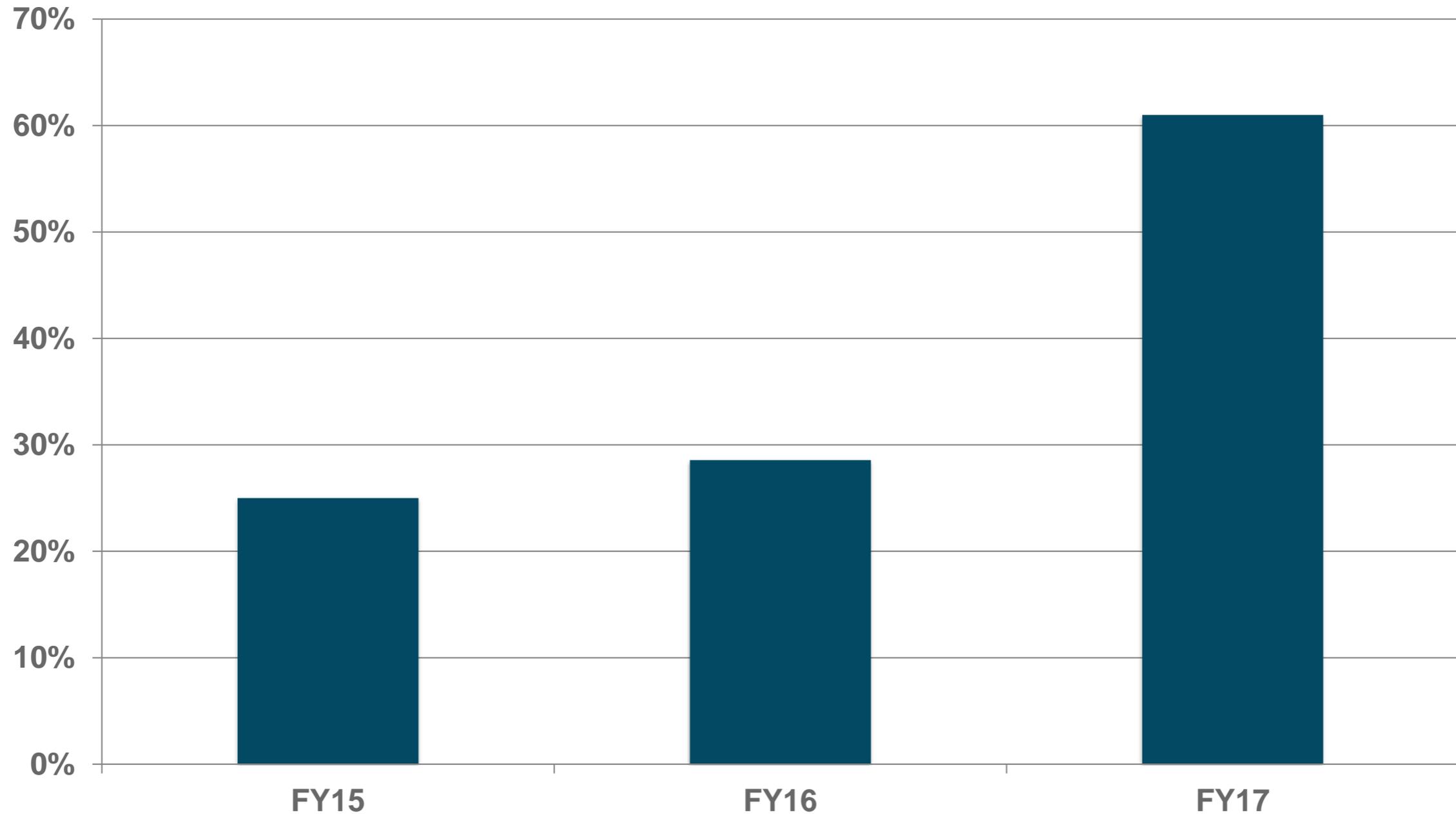
# Phosphorus Control and Utah's Population

## Utah Phosphorus Loading to State Waters



# Spills Close-Out

Percent Incidents Addressed Within 7 Days





**DRINKING  
WATER**

# Safeguarding Utah's Drinking Water

- Compliance Monitoring and Enforcement
- Engineering Assistance
- State Revolving Fund Loan Program
- System Inspections
- Source Protection



*Sander van der Wel*

# Compliance Monitoring and Enforcement

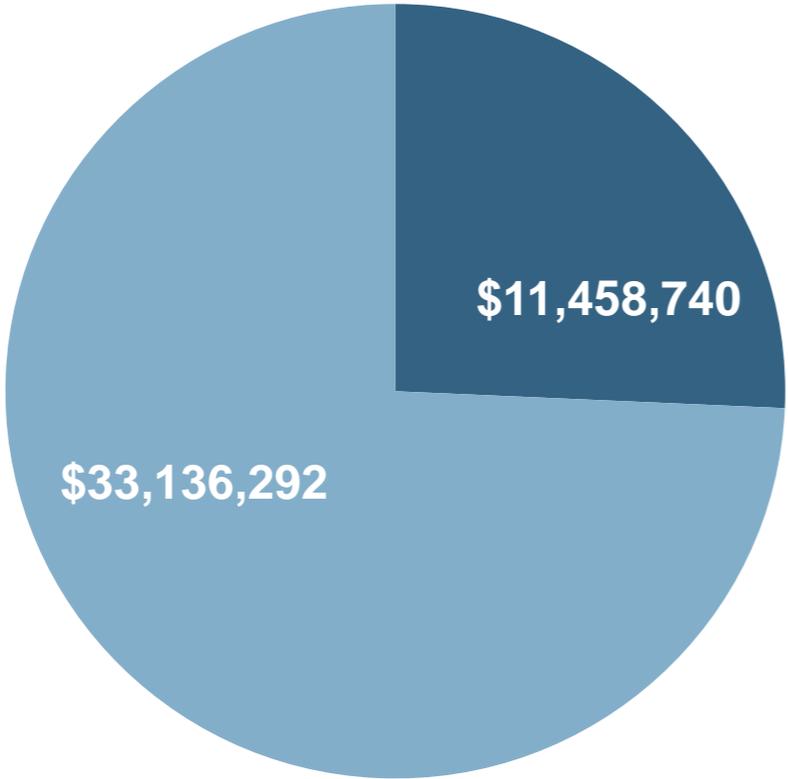


# Engineering Assistance



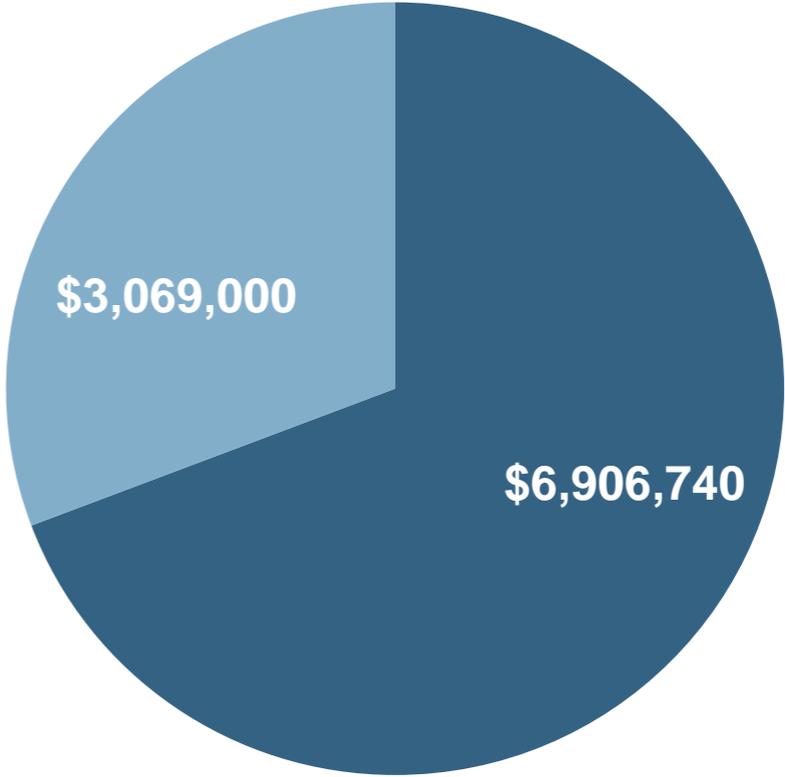
# FY16 Financial Assistance

## Authorized



■ State ■ Federal

## Appropriated



■ State ■ Federal

# Woods Cross Water Treatment Plant



# Systems Inspections



# Source Protection



# Continuous Improvement

- Engineering assistance
- Reassessment of water quality vulnerabilities
- Training and operator certifications
- Online tracking
- Collaboration with EPA on data transfer





**WASTE MANAGEMENT  
& RADIATION CONTROL**

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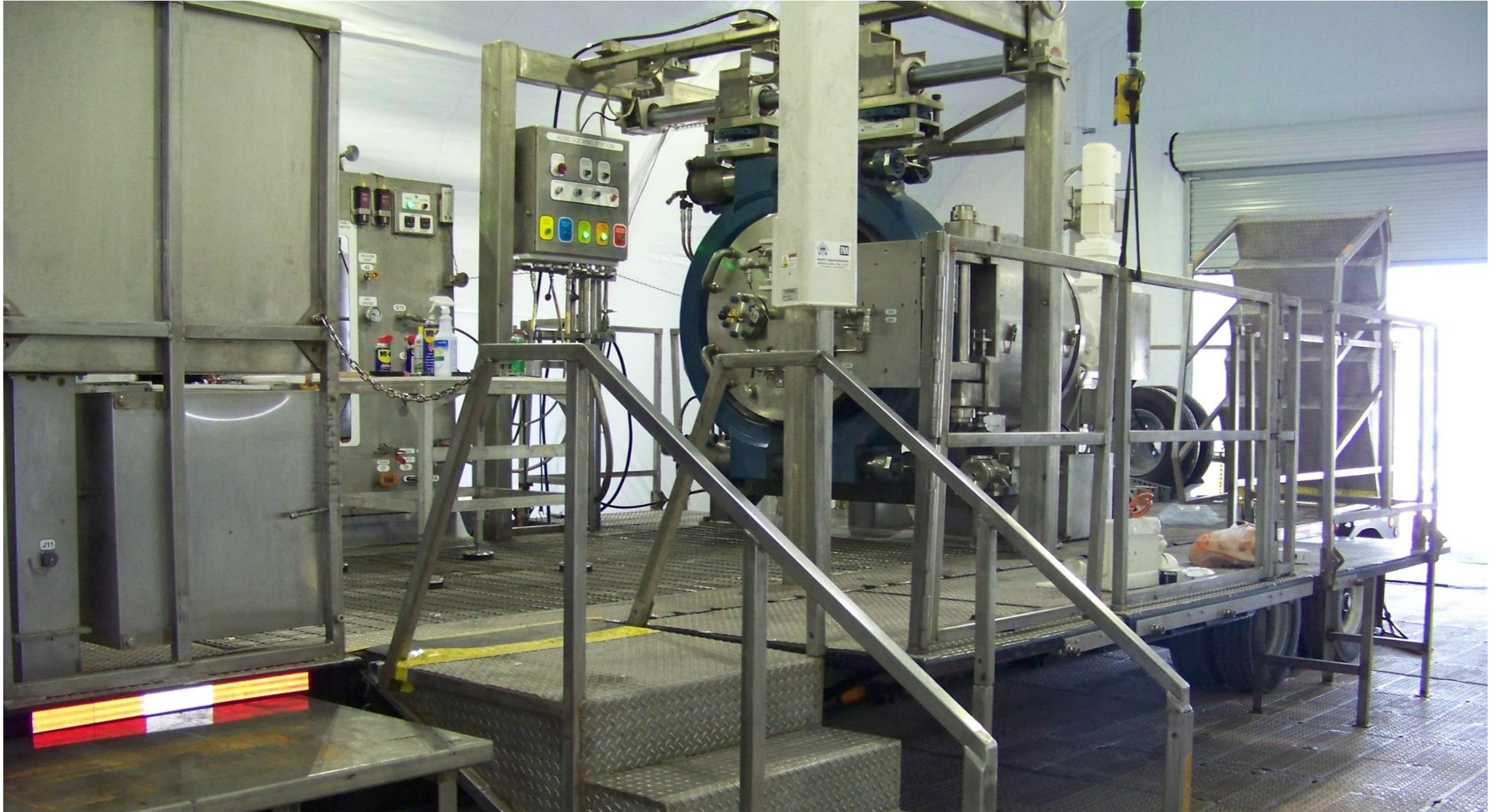
# Programs

- Permitting and Licensing
  - Hazardous waste
  - Solid waste
  - Low-level radioactive waste
  - Radioactive materials
  - Uranium mills
- Corrective Actions
- Recycling: Used Oil, Waste Tires, and Mercury Switches
- Education and Outreach
- Indoor Radon Program
- Inspections and Compliance Monitoring
- X-ray Equipment Inspections

# Landfill Success Story: North Valley Landfill



# Tooele Army Depot Munitions Destruction



# Indoor Radon Program



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# Continuous Improvement

- Waste management permitting
  - Completion of permits in a timely, efficient manner
- Waste management compliance
  - Enhanced compliance tracking to improve compliance rates
- X-ray inspections
  - Newer equipment that cuts data collection time in half
  - Streamlined reporting process
  - Data collection using tablets
  - Filing shifted to administrative staff to free up inspectors



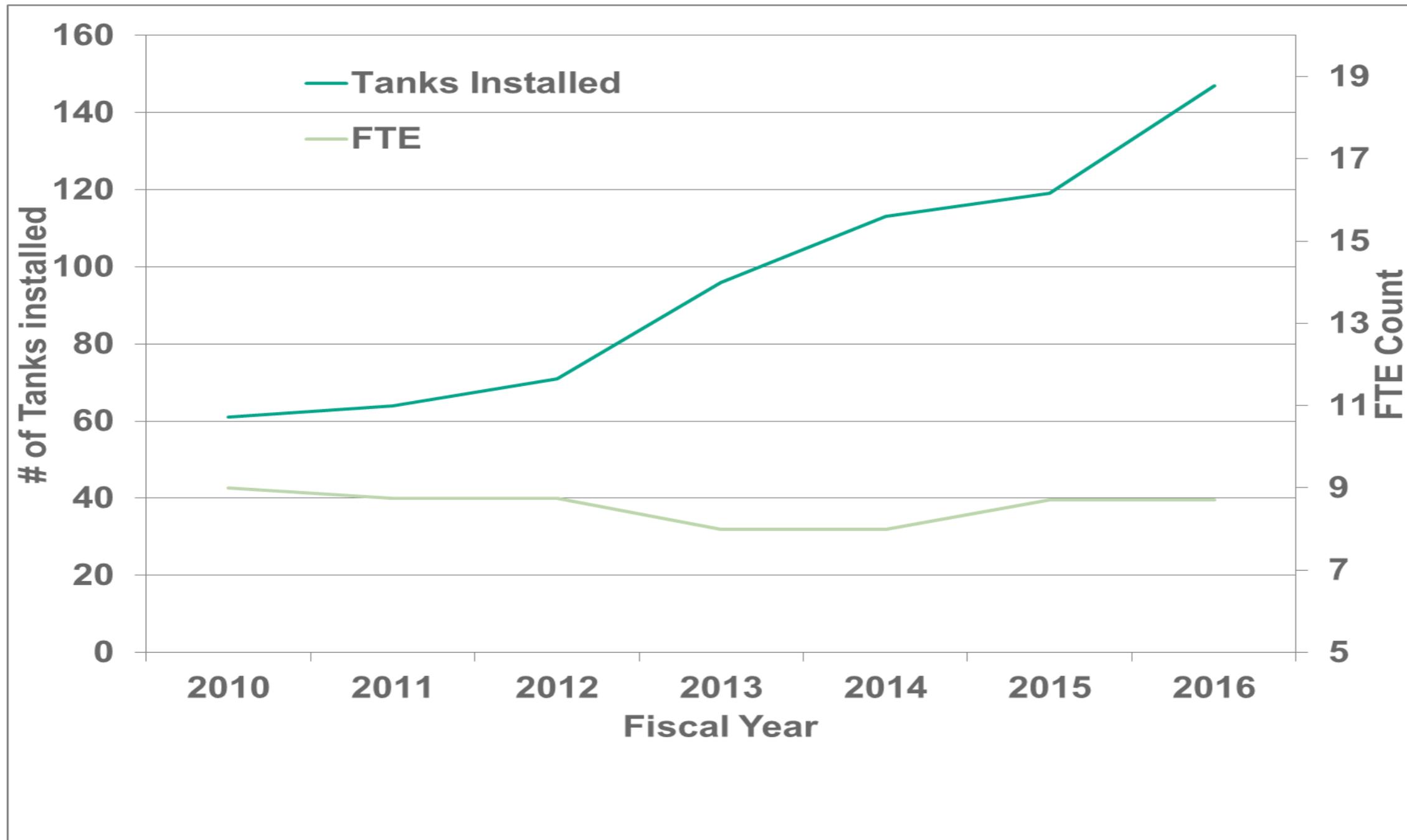
# ENVIRONMENTAL RESPONSE & REMEDIATION

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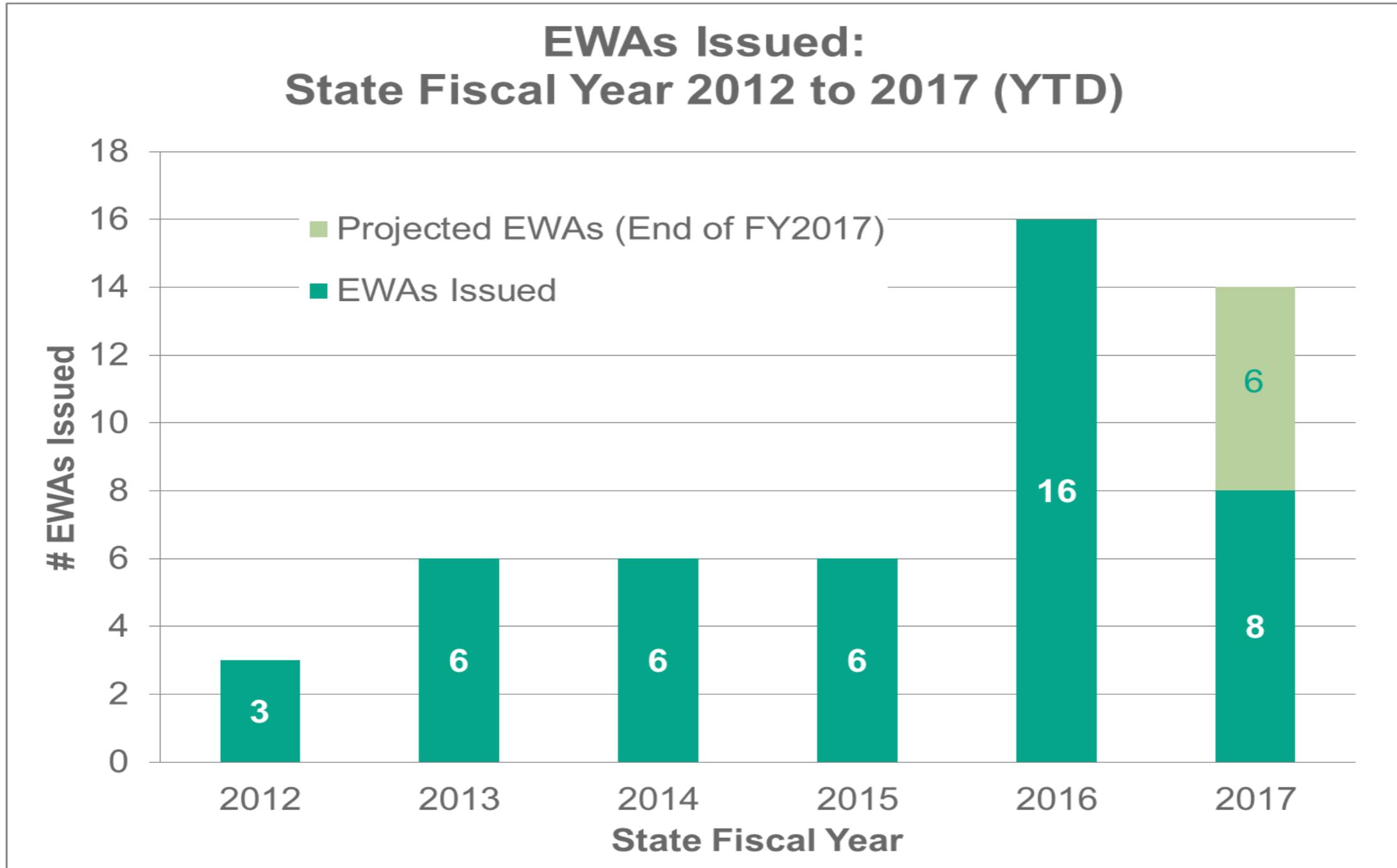
# Programs

- Underground Storage Tanks (USTs)
  - UST Compliance
  - Petroleum Storage Tank (PST) Fund
  - Leaking Underground Storage Tanks (LUSTs)
- Superfund
- Voluntary Cleanup Program (VCP)
- Brownfields
- DEQ Emergency Incident Notifications

# New UST Installations/ Compliance FTEs



# Enforceable Written Assurances (EWAs)



# Food Ranch UST Release



# Park City Heights VCP



# Ogden Business Exchange



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# Continuous Improvement

- DEQ Interactive Map
- Underground storage tank (UST) tracking system
- Database-driven reminder system
- Document uploads to eDocs
- UST tablet inspection app
- Online tank portal for UST certification and operator training registration
- Petroleum Storage Tank (PST) Program tool
- Voluntary Cleanup Program efficiency project
- Tier 2 submission portal

# Clean Air, Land, and Water for Utah



# Questions?

