

# Remediation and Redevelopment Division Program & Policy Update

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*Michigan Department of Environmental Quality  
Remediation and Redevelopment Division*



Leaking UST Releases



**Contaminated Facilities**

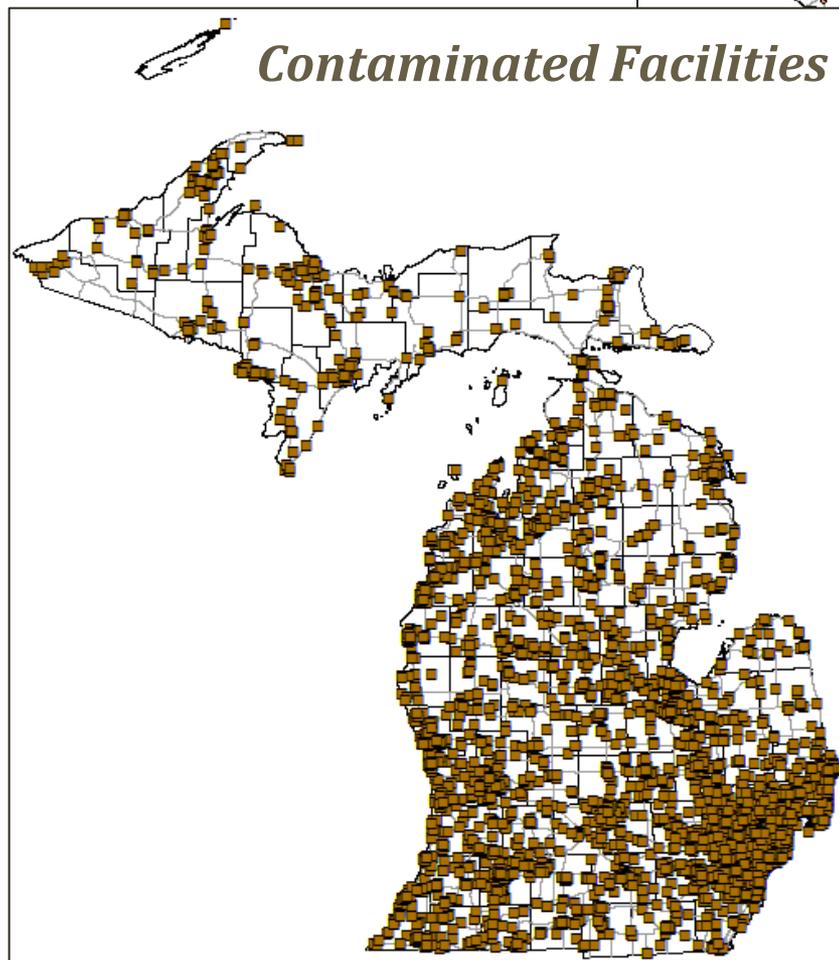


Brownfield Grants & Loans



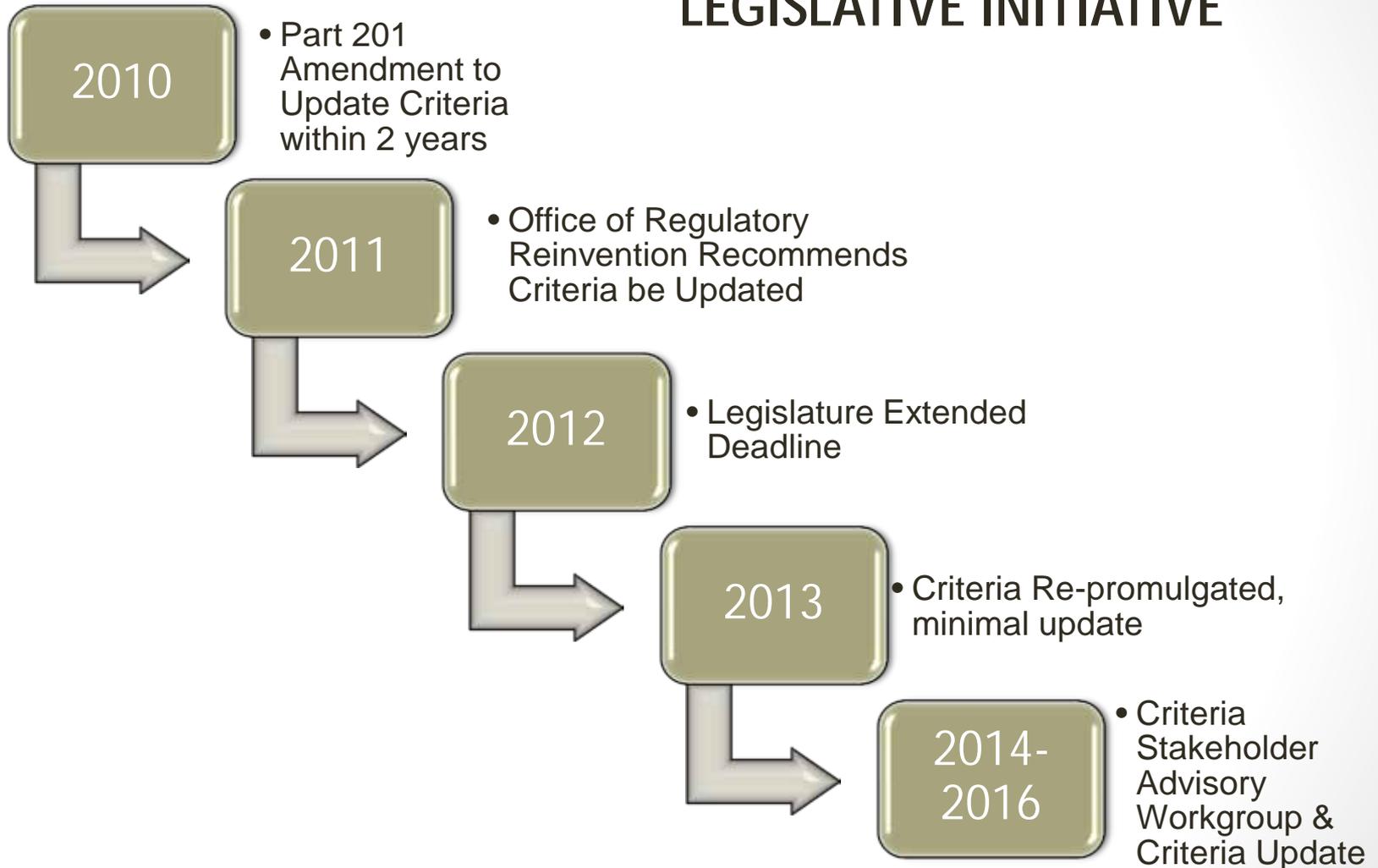
**Superfund**

# *Hazardous Substances Released to the Environment*



# MDEQ Cleanup Criteria Status

## LEGISLATIVE INITIATIVE



# MDEQ Cleanup Criteria Status

## STATUTORY REQUIREMENTS

Best  
Available  
Science

Best  
Practices  
Used By  
Other States

Reasonable  
& Realistic  
Conditions



Public Information Meetings

Public Hearing Process

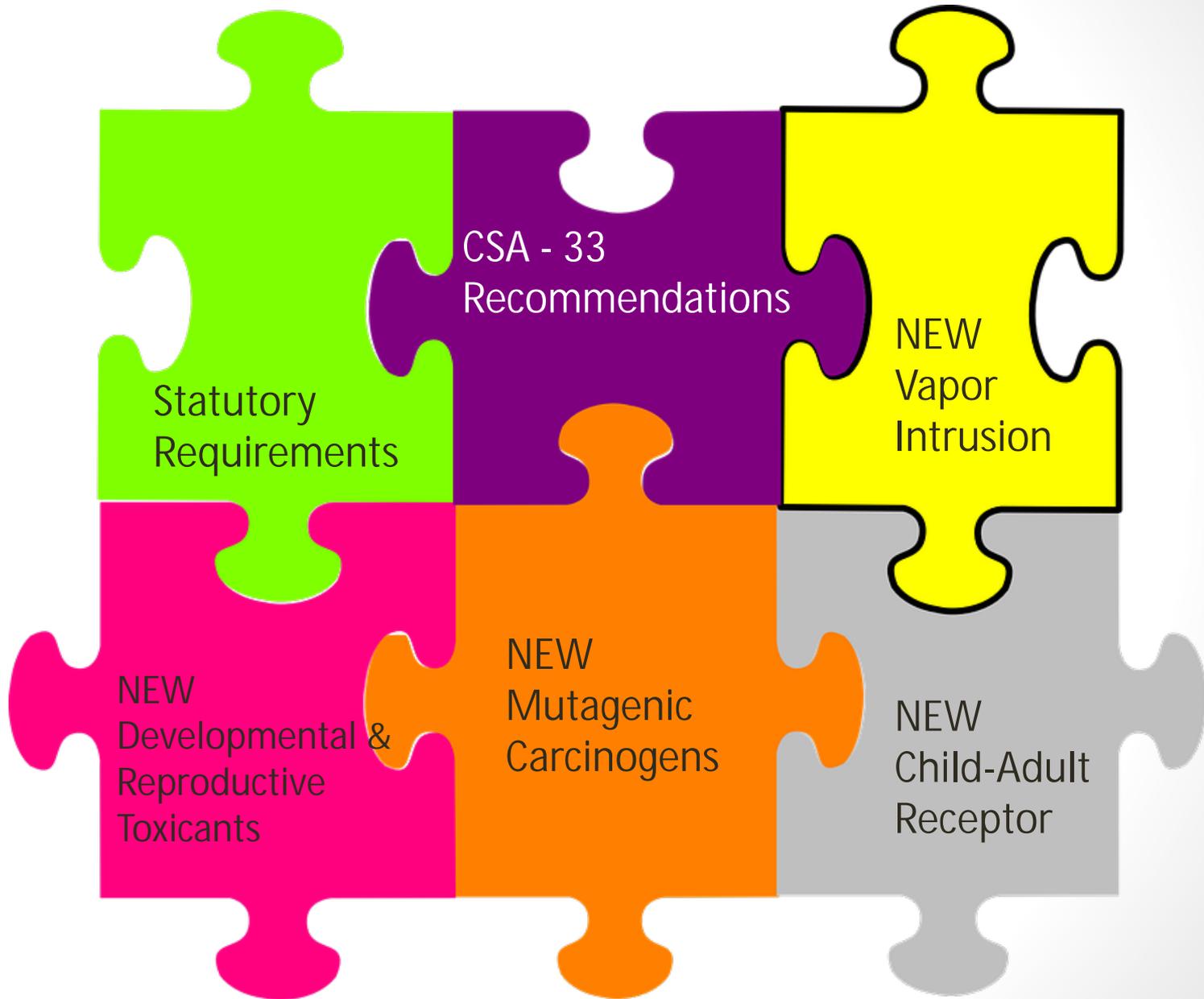
Final Draft Rules submitted to JCAR

Promulgate Rules

*Next Steps*



# Update Summary



# MDEQ Cleanup Criteria Status

CRITERIA ARE CHANGING

*So, what does  
this mean to me?*

# MDEQ Brownfield Redevelopment Continuous Program Improvement

## CPI Recommendations Align Rules & Legislation

Act 381  
Part 195  
Part 196  
Part 201  
Part 213



Westin Hotel, Detroit

# MDEQ Brownfield Redevelopment Continuous Program Improvement

## CPI Recommendations: Staffing

- Dedicated Brownfield staff in each district
- Provide consistency & streamline reviews



# MDEQ Brownfield Redevelopment Continuous Program Improvement

## CPI Recommendations: Implementation

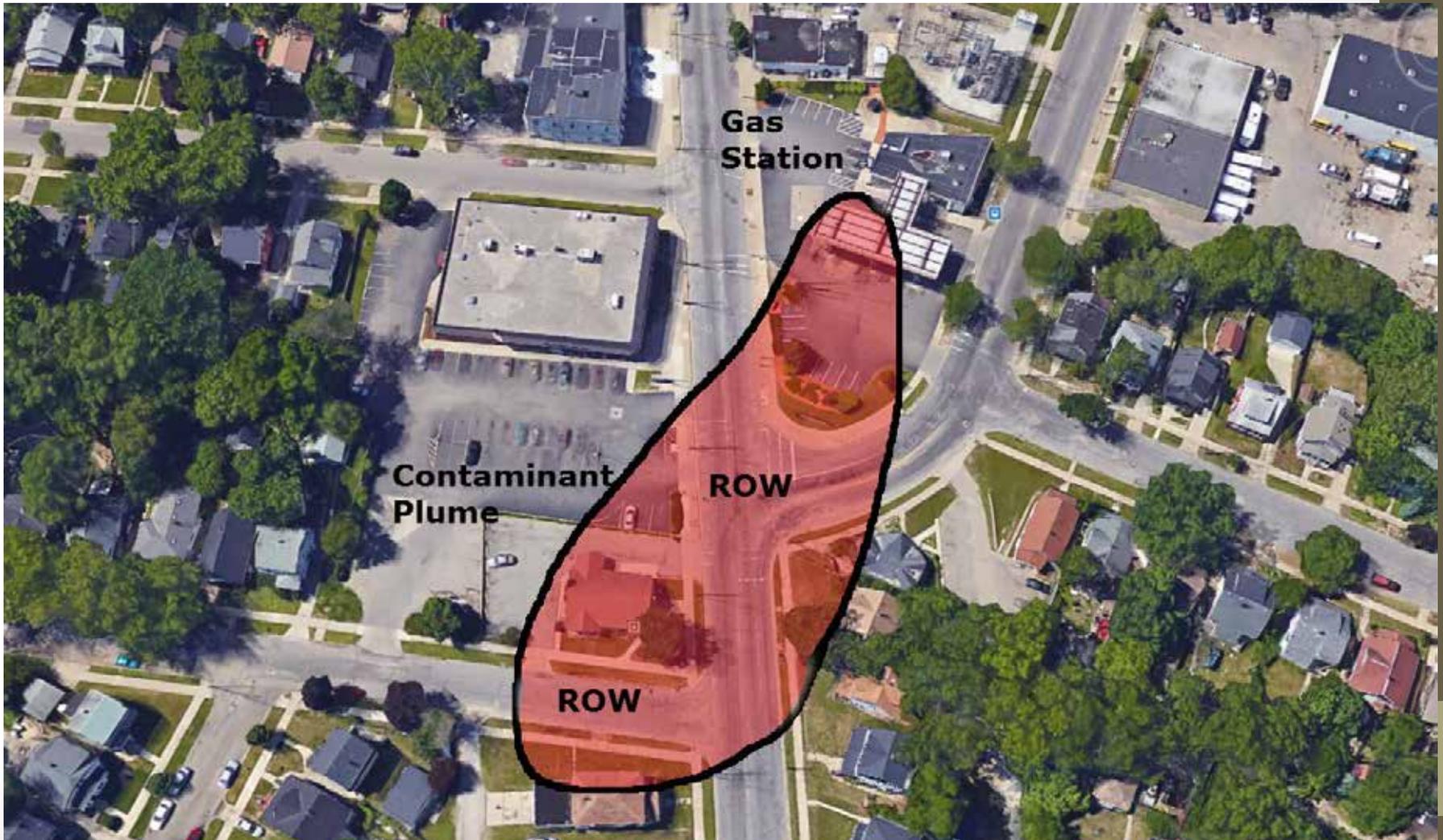
- Status of Legislative Changes



Lemon Creek Winery, Grand Haven  
(before and after)

# Part 213 Amendments

## Right of Way Restrictions



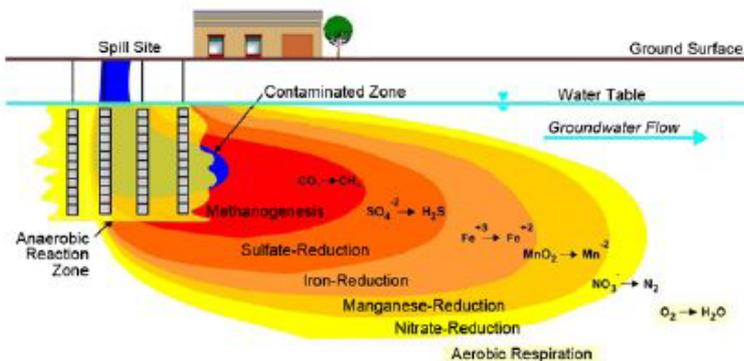
Generic image for illustration purposes only

# In-Situ Remediation Resource Document



## IN SITU REMEDIATION

REMEDICATION AND REDEVELOPMENT DIVISION  
RESOURCE MATERIALS



Prepared by:  
Michigan Department of Environmental Quality  
Remediation and Redevelopment Division  
525 West Allegan Street  
Lansing, Michigan 48933  
February 2018

*Reissued As  
Resource Materials  
Document*



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# Incremental Sampling Reference Document



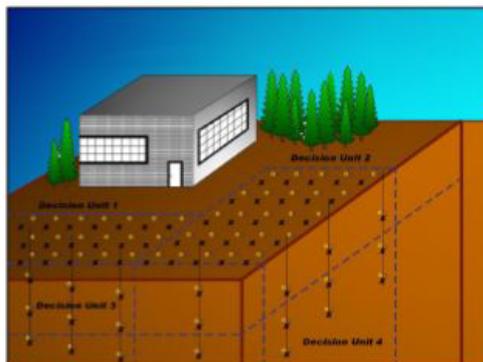
Michigan Department of Environmental Quality

Remediation and  
Redevelopment Division



## **INCREMENTAL SAMPLING METHODOLOGY AND APPLICATIONS**

REMEDICATION AND REDEVELOPMENT DIVISION  
RESOURCE MATERIALS

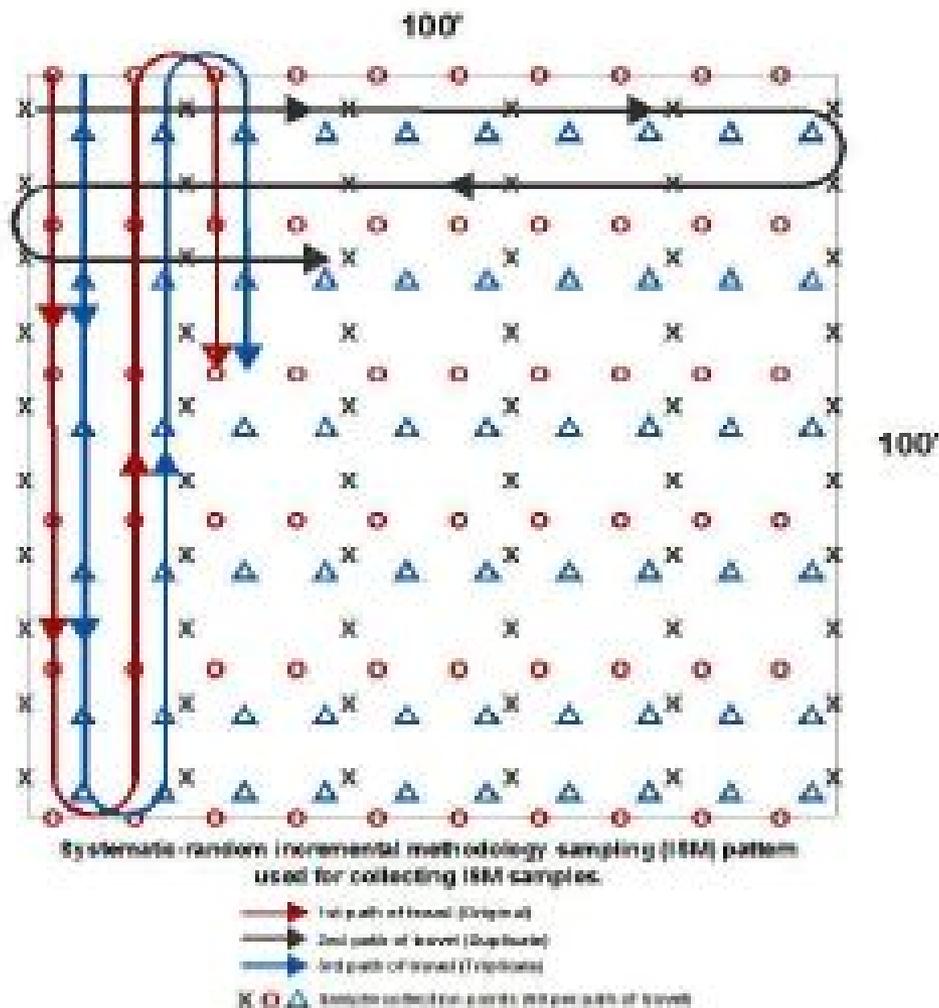


Prepared by:  
Michigan Department of Environmental Quality  
Remediation and Redevelopment Division  
525 West Allegan Street  
Lansing, Michigan 48933  
RRD-RESOURCE MATERIALS-XX-2014-01  
June 2015



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# Incremental Sampling Reference Document



*Public Comments have been reviewed and document revisions have been completed.*

*Document to be finalized in 2016.*

\*Figure from ITRC 2012

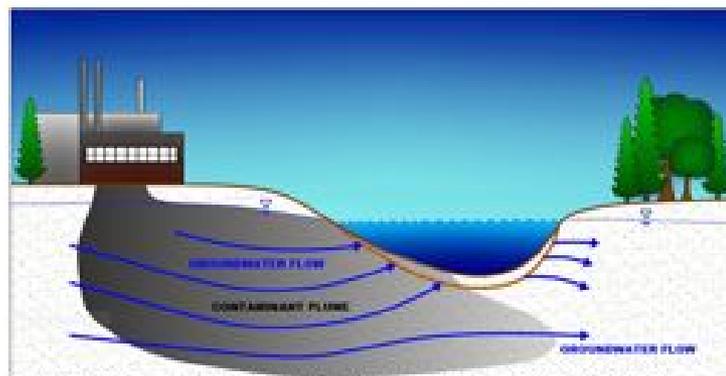
# Groundwater/ Surface Water Interface

## Resource Document



### GROUNDWATER-SURFACE WATER INTERFACE PATHWAY COMPLIANCE OPTIONS

REMEDIATION AND REDEVELOPMENT DIVISION  
RESOURCE MATERIALS



Adapted from US EPA, Proceedings of the Groundwater/Surface Water Interactions Workshop, EPA/600/R-00/007, July 2000

Prepared by: /  
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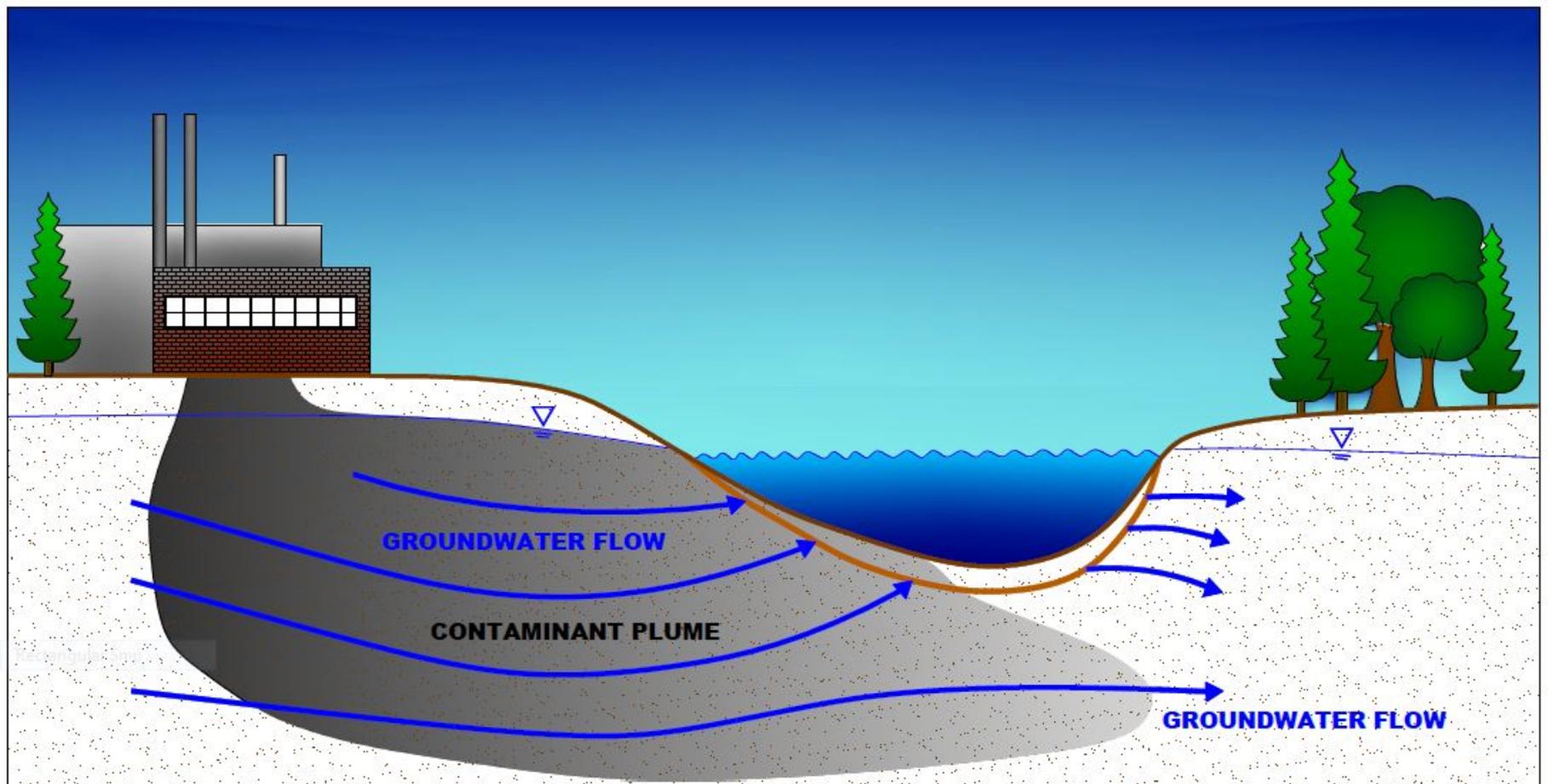
RDD-RESOURCE MATERIALS  
June 2011, 2013

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# Groundwater/ Surface Water Interface

GSI Location

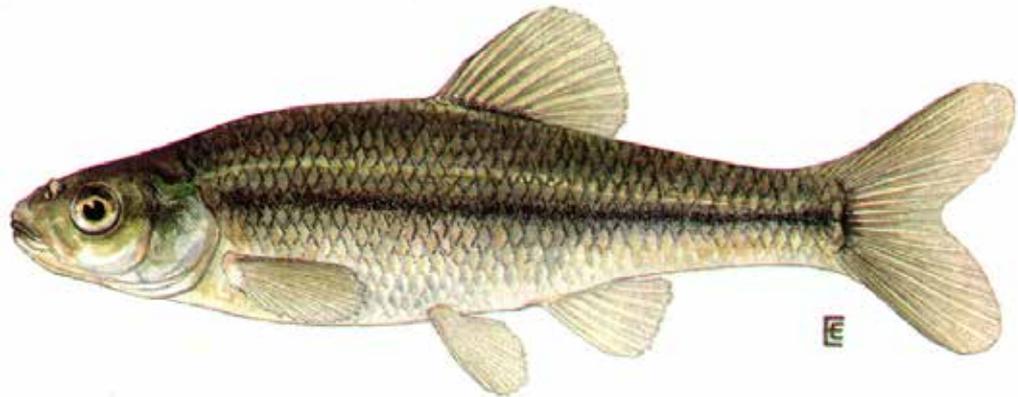


# Groundwater/ Surface Water Interface

## Finalizing Document



*Compliance Assessments Consider Receptors at Risk and toxicity of the Hazardous substance*



Additional Language for Ecological Assessments

# Soil Background

## New Resource Available

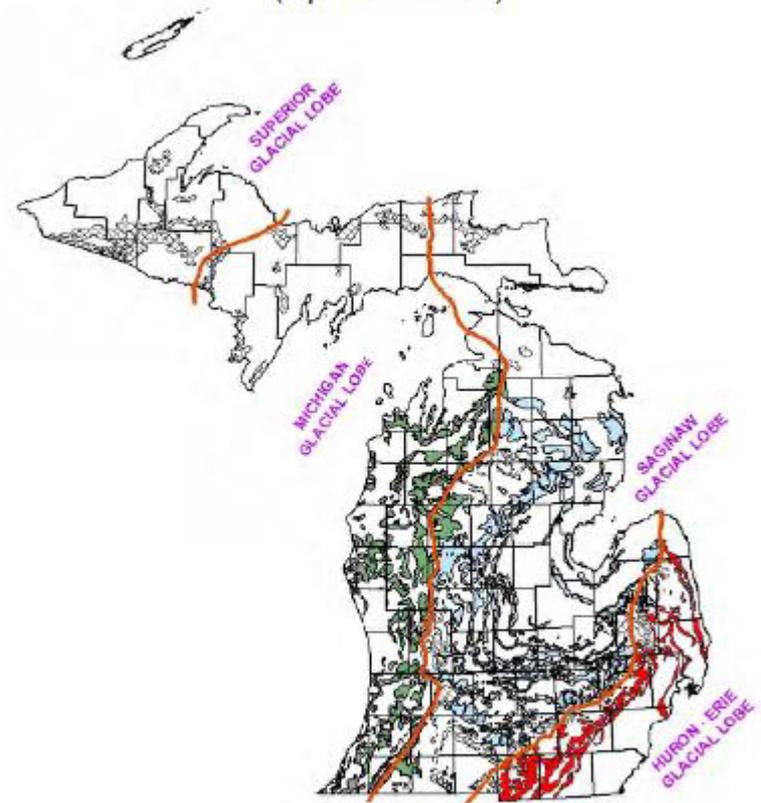
MICHIGAN BACKGROUND SOIL SURVEY 2005



Hazardous Waste Technical Support Unit  
Hazardous Waste Section  
Waste and Hazardous Materials Division



MICHIGAN BACKGROUND SOIL SURVEY 2005  
(Updated 2015)



Permit & Corrective Action Unit  
Hazardous Waste Section  
Office of Waste Management & Radiological Protection



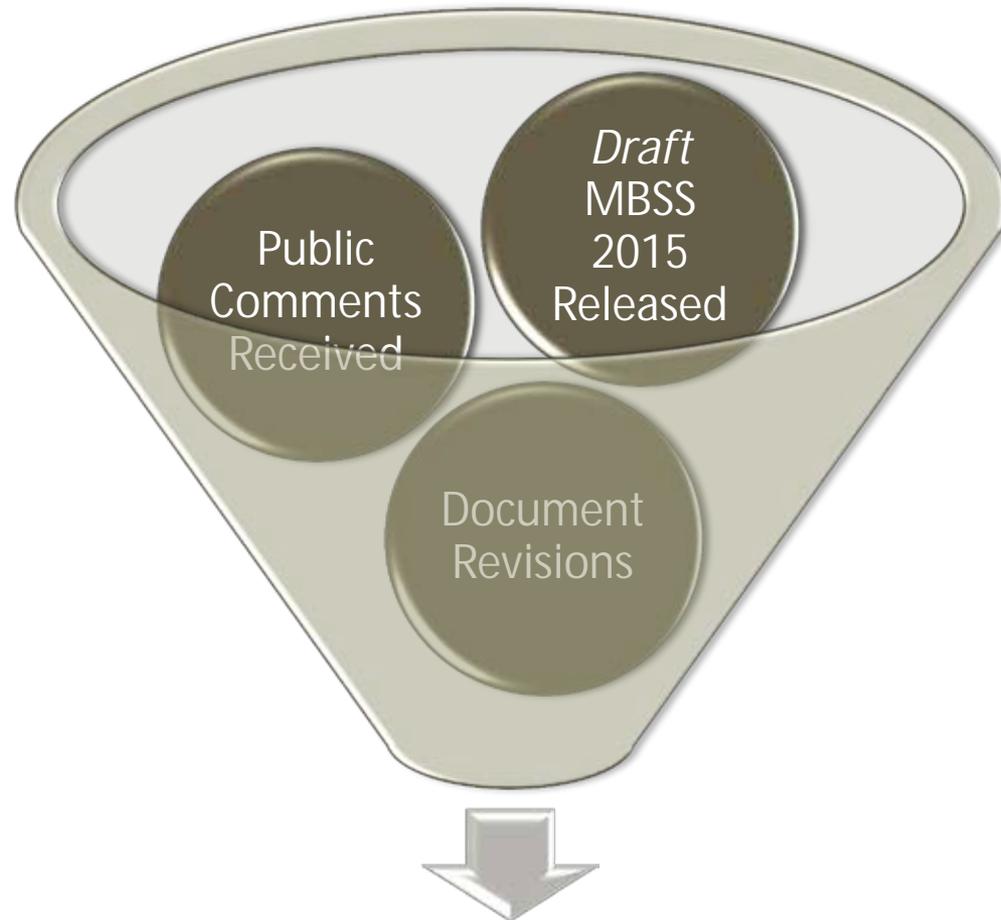
# Soil Background

More Data Points



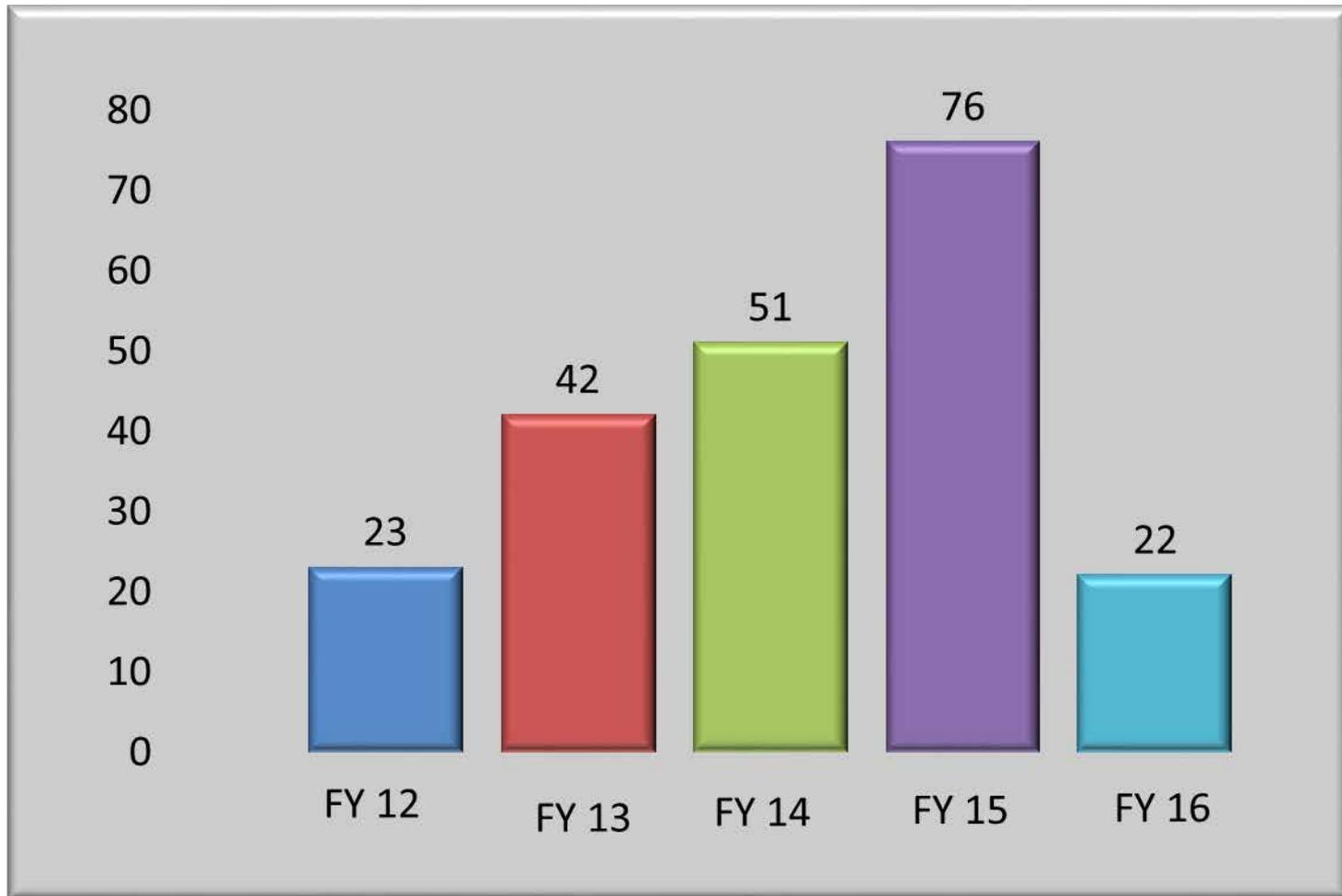
# Soil Background

Document Release

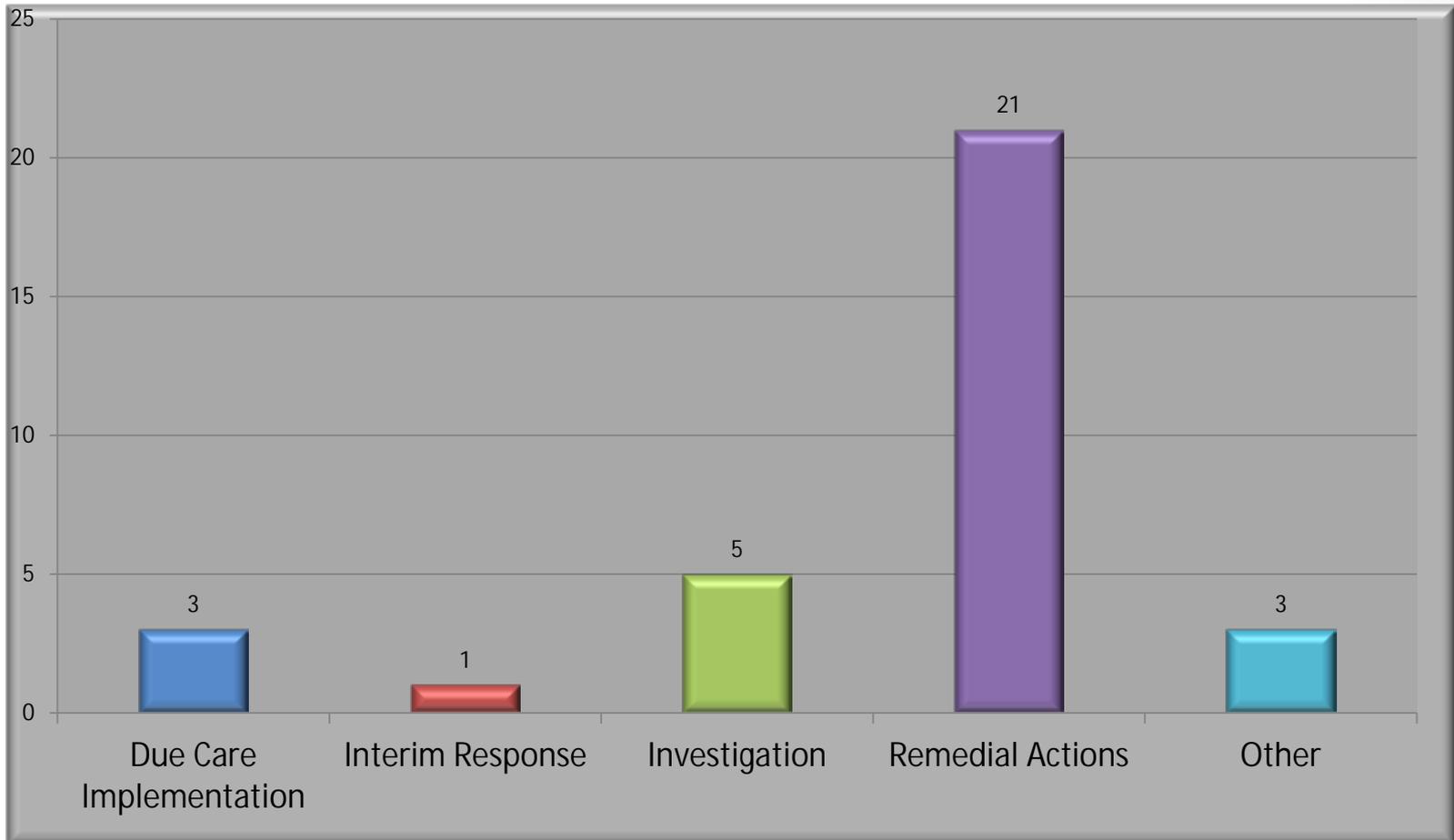


Final Version 2016

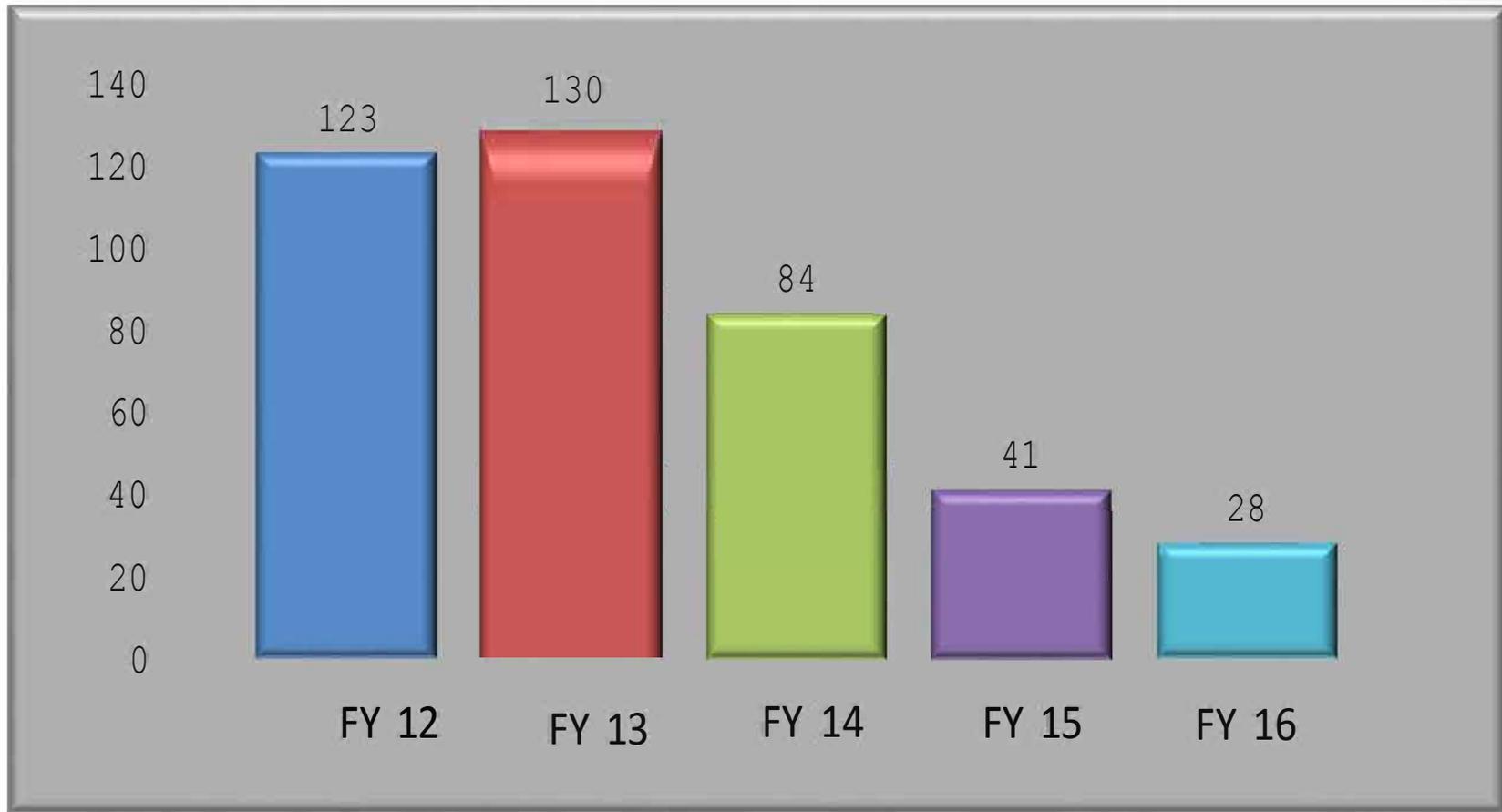
## No Further Action Reports Determinations



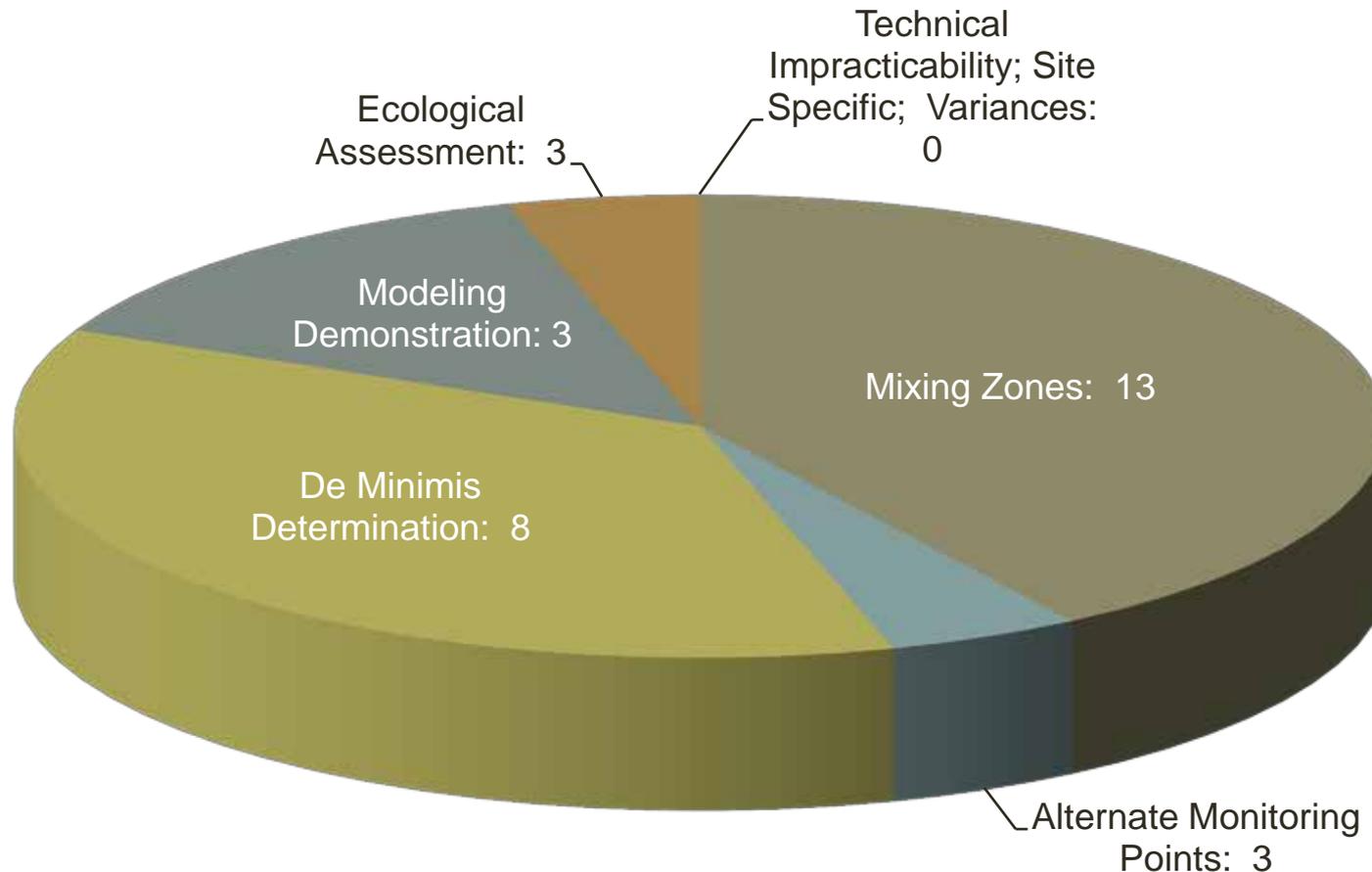
## Types of Certificates of Completion Submitted



# Response Activity Plan Determinations

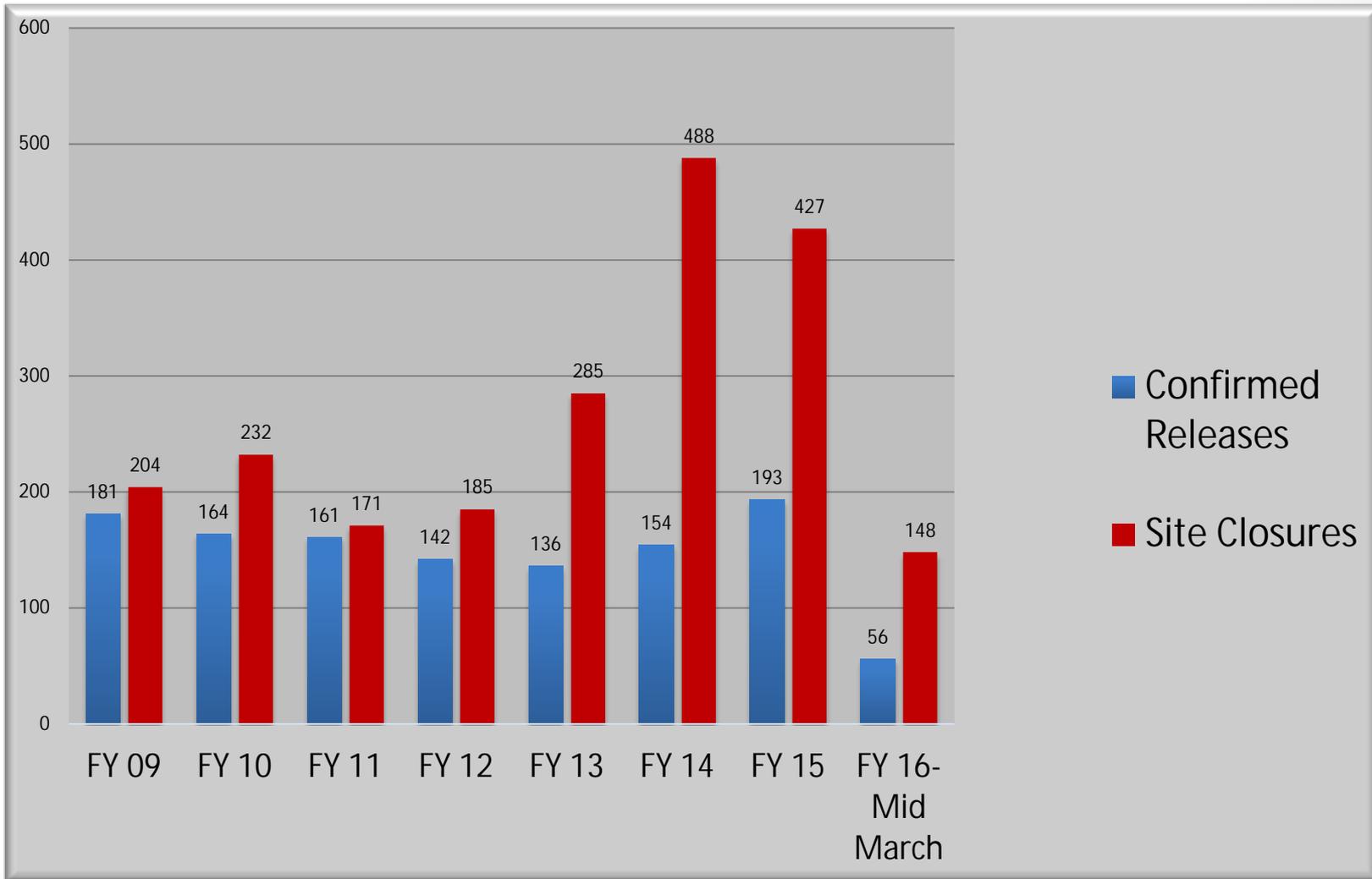


## GSI Compliance Options Submitted

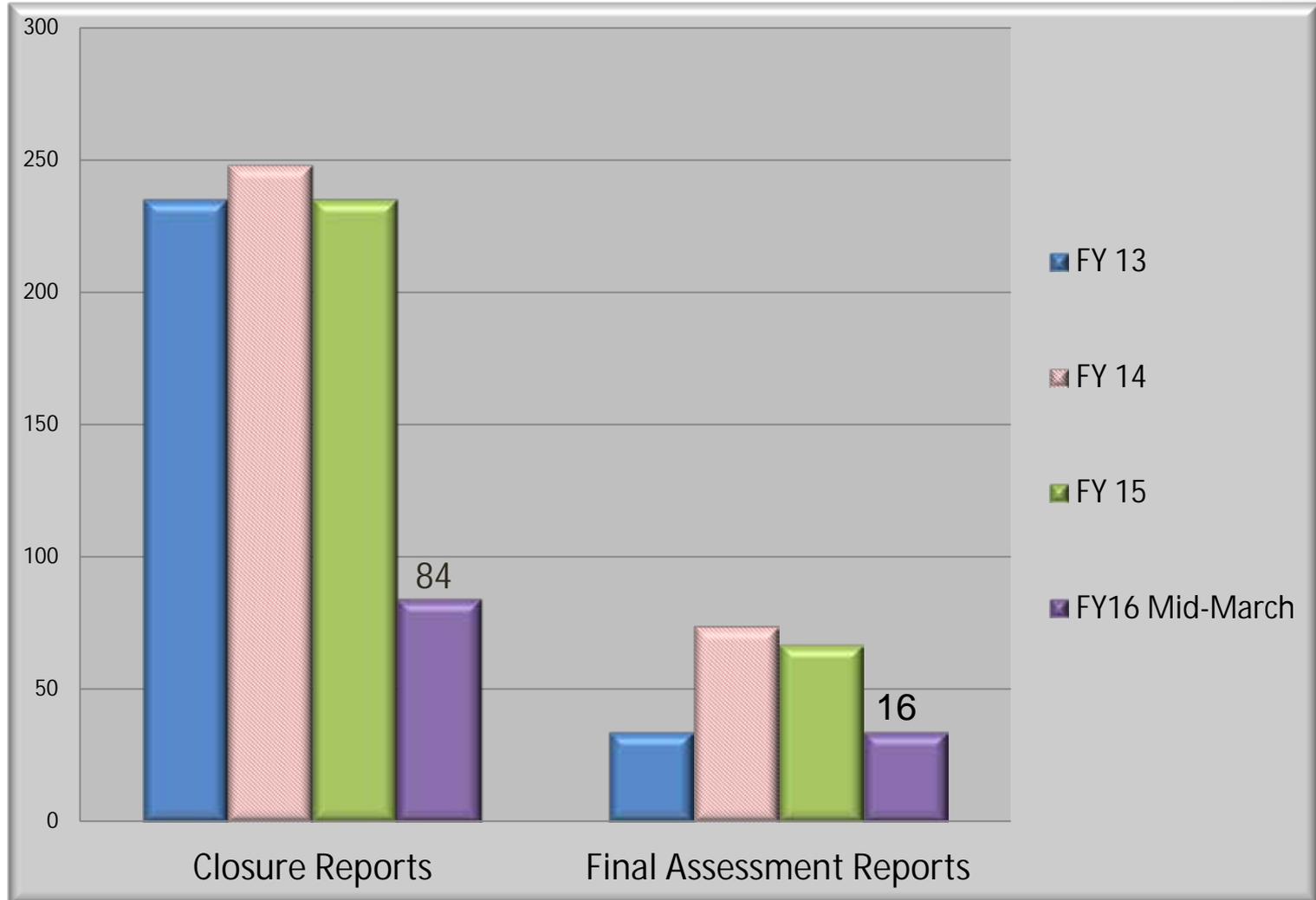


**Number of Sites Reviewed for Different Compliance Options  
for the Groundwater / Surface Water Interface Pathway under  
201.20(e)  
FY 2013 through 2015**

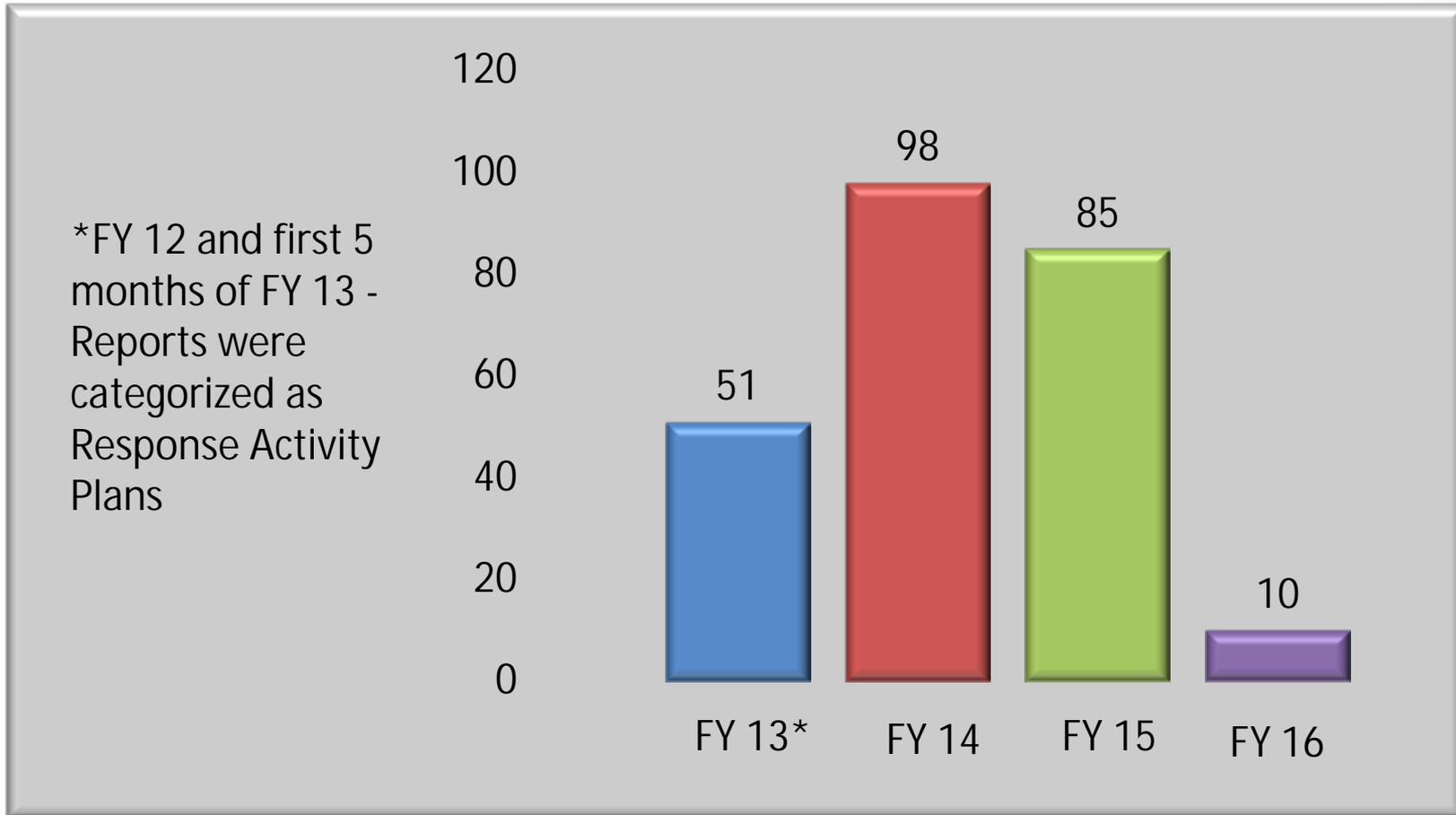
## LUST Confirmed Releases & Site Closures



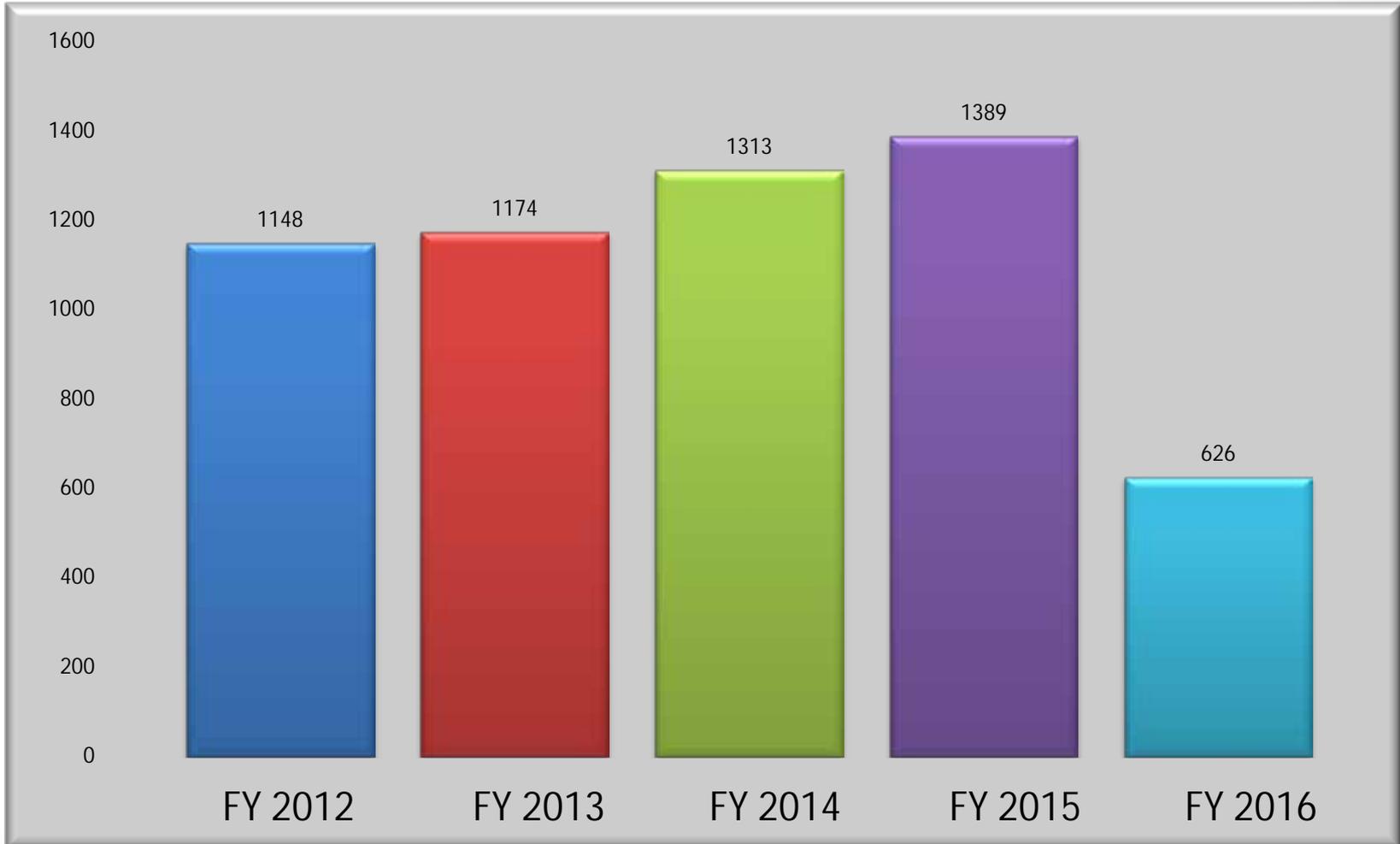
# LUST Reports Submitted



## Documentation of Due Care Compliance Determinations



# Baseline Environmental Assessments



# Michigan Department of Environmental Quality

800-662-9278

[www.michigan.gov/deq](http://www.michigan.gov/deq)

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