



**Alabama Department of  
Environmental Management**

## **ADEM Update**

**Alabama Coalbed Methane Assoc.**

**Annual Meeting**

May 25, 2017



# Alabama Department Of Environmental Management

## Mission

Assure for all citizens of the State a safe,  
healthful and productive environment.



# Alabama Department of Environmental Management

## Today's Topics



# Alabama Department of Environmental Management

## Today's Topics

- State of Alabama's Environment



# Alabama Department of Environmental Management

## Today's Topics

- State of Alabama's Environment
- EPA Update



# Alabama Department of Environmental Management

## Today's Topics

- State of Alabama's Environment
- EPA Update
- ADEM Agenda



# Alabama Department of Environmental Management

## Today's Topics

- State of Alabama's Environment
- EPA Update
- ADEM Agenda
- ADEM Funding



# Alabama Department Of Environmental Management

## State of Alabama's Environment





# Alabama Department Of Environmental Management

## State of Alabama's Environment

- What does the Alabama public think?



# Alabama Department Of Environmental Management

## State of Alabama's Environment

- What does the Alabama public think?
- What does Business think?



# Alabama Department Of Environmental Management

## State of Alabama's Environment

- What does the Alabama public think?
- What does Business think?
- What does the data show?



# Alabama Department Of Environmental Management

What does the Alabama public think?



# Alabama Department Of Environmental Management

## Survey of Public Opinion



# Alabama Department Of Environmental Management

## Survey of Public Opinion

- Every 5 years 1998 – 2013 [4 times]



# Alabama Department Of Environmental Management

## Survey of Public Opinion

- Every 5 years 1998 – 2013 [4 times]
- Correct perceptions:



# Alabama Department Of Environmental Management

## Survey of Public Opinion

- Every 5 years 1998 – 2013 [4 times]
- Correct perceptions:
  - 88% rank environment good vs. 76% in 1998





# Alabama Department Of Environmental Management

## Survey of Public Opinion

- Every 5 years 1998 – 2013 [4 times]
- Correct perceptions:
  - 88% rank environment good vs. 76% in 1998
  - 36% rank water cleaner than 25 yrs ago vs. 19% in 1998



# Alabama Department Of Environmental Management

## Survey of Public Opinion

- Every 5 years 1998 – 2013 [4 times]
- Correct perceptions:
  - 88% rank environment good vs. 76% in 1998
  - 36% rank water cleaner than 25 yrs ago vs. 19% in 1998
  - 31% rank air cleaner than 25 yrs ago vs. 18% in 1998



# Alabama Department Of Environmental Management

## Survey of Public Opinion

- Incorrect perceptions:



# Alabama Department Of Environmental Management

## Survey of Public Opinion

- Incorrect perceptions:
  - 62% do not realize motor vehicles biggest source of air pollution in Alabama and Nation



# Alabama Department Of Environmental Management

## Survey of Public Opinion

- Incorrect perceptions:
  - 62% do not realize motor vehicles biggest source of air pollution in Alabama and Nation
  - 86% do not realize storm water biggest source of water pollution



# Alabama Department Of Environmental Management

## Survey of Public Opinion

- Incorrect perceptions:
  - 62% do not realize motor vehicles biggest source of air pollution in Alabama and Nation
  - 86% do not realize storm water biggest source of water pollution
  - Only 76% agree standards are protective of human health and the environment



# Alabama Department Of Environmental Management

What does business think?



# Alabama Department Of Environmental Management

## Top Ten States for Doing Business





# Alabama Department Of Environmental Management

## Top Ten States for Doing Business

Alabama ranking - Area Development Website



# Alabama Department Of Environmental Management

## Top Ten States for Doing Business

Alabama ranking - Area Development Website

- Overall - 6<sup>th</sup>



# Alabama Department Of Environmental Management

## Top Ten States for Doing Business

Alabama ranking - Area Development Website

- Overall - 6<sup>th</sup>
- Favorable Regulatory Environment – 6<sup>th</sup>



# Alabama Department Of Environmental Management

## Top Ten States for Doing Business

Alabama ranking - Area Development Website

- Overall - 6<sup>th</sup>
- Favorable Regulatory Environment – 6<sup>th</sup>
- Speed of Permitting – 3<sup>rd</sup>



# Alabama Department Of Environmental Management

What does the data show?

**ADEM**

**Alabama Department Of  
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**AIR**



# Alabama Department Of Environmental Management

## Air Quality and related standards

- PM<sub>2.5</sub>
- Ozone
- NO<sub>x</sub>
- SO<sub>2</sub>
- CO
- Pb
- Haze



# Alabama Department Of Environmental Management

## Statewide Attainment of Air Quality and related standards

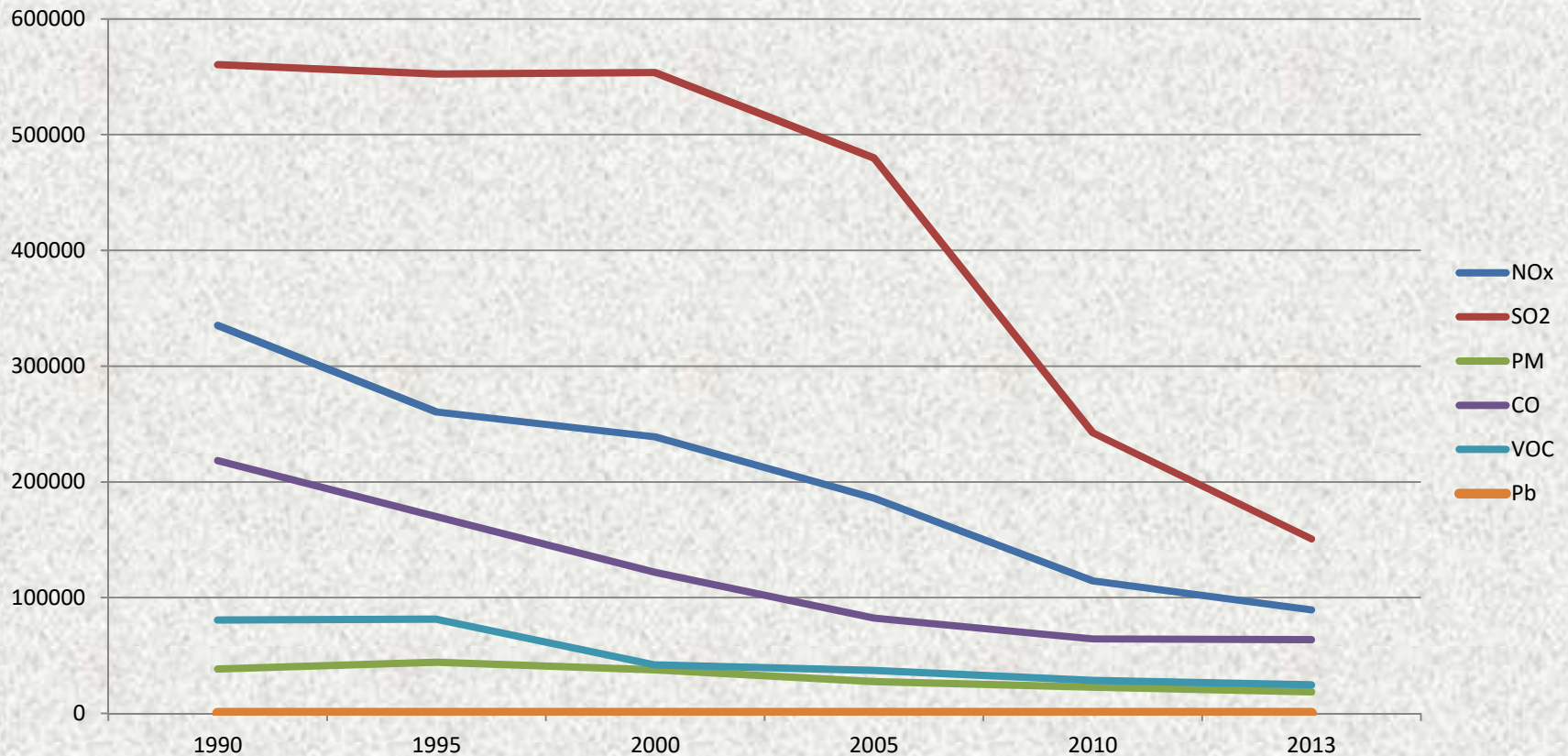
- PM<sub>2.5</sub> – 2013
- Ozone – 2014
- NO<sub>x</sub> – 1971
- SO<sub>2</sub> – 1977
- CO – 1971
- Pb – 2015
- Haze – 2013





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## AL Emissions from Major Sources, 1990 - 2013



**ADEM**

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**WATER**



# Alabama Department Of Environmental Management

## Number of Drinking Water Contaminants Regulated

1982

2016

- Organic chemicals
- Inorganic chemicals
- Radionuclides
- Microbes



# Alabama Department Of Environmental Management

## Number of Drinking Water Contaminants Regulated

	<u>1982</u>	<u>2016</u>
• Organic chemicals	7	
• Inorganic chemicals	10	
• Radionuclides	3	
• Microbes	3	
Total	<u>23</u>	



# Alabama Department Of Environmental Management

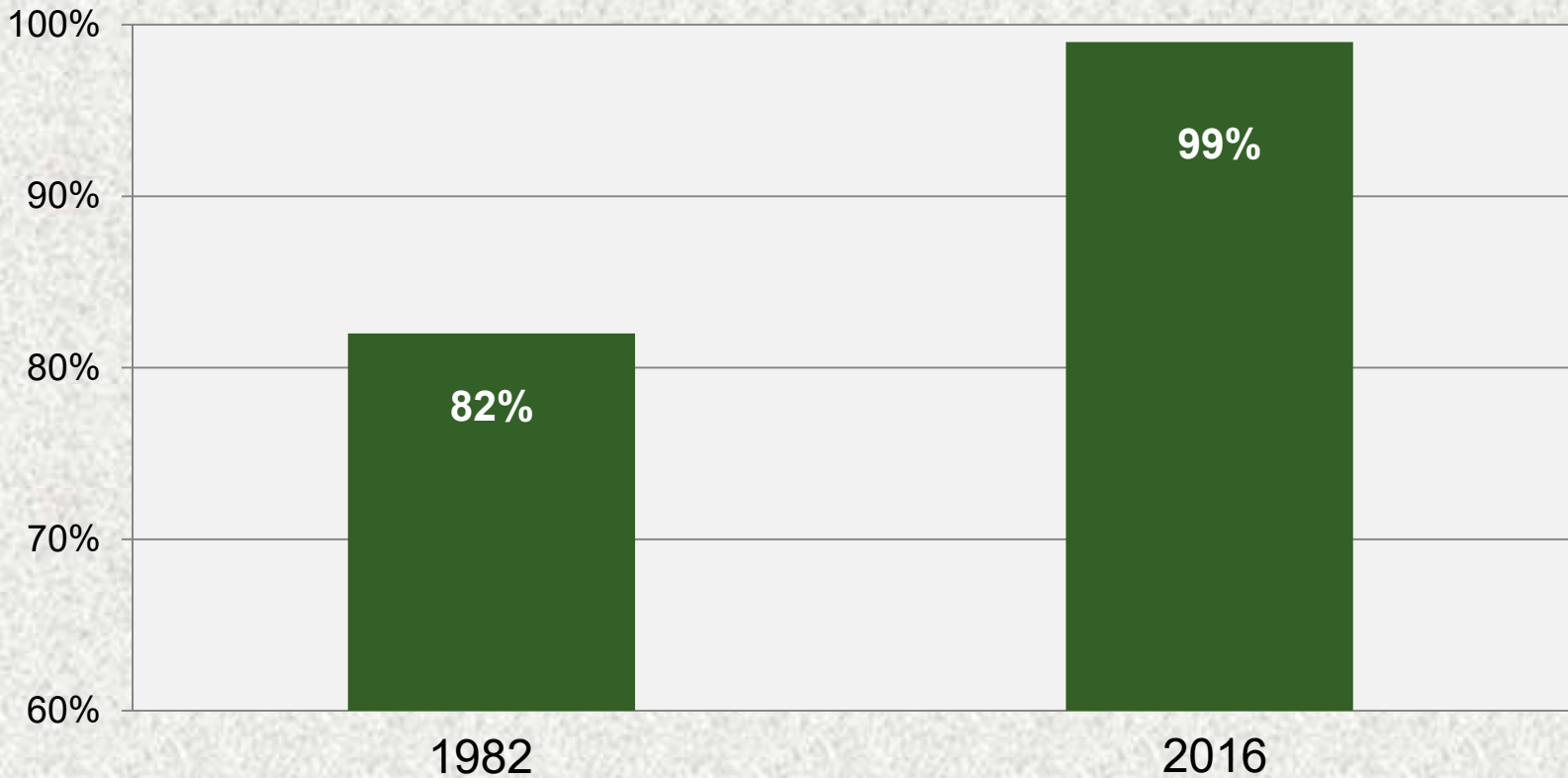
## Number of Drinking Water Contaminants Regulated

	<u>1982</u>	<u>2016</u>
• Organic chemicals	7	55
• Inorganic chemicals	10	19
• Radionuclides	3	7
• Microbes	3	8
Total	<u>23</u>	<u>89</u>



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Percentage of Public Water Systems in Compliance





# Alabama Department Of Environmental Management

## 303(d) Impaired water body / pollutant combinations 1998-2016

Listed Ending

River/Stream (miles)

Lake/Reservoir (1000s ac)

Ocean/Estuary (1000s ac)



# Alabama Department Of Environmental Management

## 303(d) Impaired water body / pollutant combinations 1998-2016

	<u>Listed</u>	<u>Ending</u>
River/Stream (miles)	10,779	
Lake/Reservoir (1000s ac)	535	
Ocean/Estuary (1000s ac)	562	





# Alabama Department Of Environmental Management

## 303(d) Impaired water body / pollutant combinations 1998-2016

	<u>Listed</u>	<u>Ending</u>
River/Stream (miles)	10,779	2,432
Lake/Reservoir (1000s ac)	535	219
Ocean/Estuary (1000s ac)	562	460



# Alabama Department Of Environmental Management

LAND



# Alabama Department Of Environmental Management

## Landfills and Chemical Weapons



# Alabama Department Of Environmental Management

## Landfills and Chemical Weapons

- Since 1993 - Improved landfills:
  - All 141 unlined MSW landfills safely closed
  - 31 state-of-the-art lined MSW landfills today



# Alabama Department Of Environmental Management

## Landfills and Chemical Weapons

- Since 1993 - Improved landfills:
  - All 141 unlined MSW landfills safely closed
  - 31 state-of-the-art lined MSW landfills today
- 650,000 Chemical weapons stored in Alabama destroyed 2003 - 2013



# Alabama Department Of Environmental Management

## Underground Storage Tanks (UST)



# Alabama Department Of Environmental Management

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Since 1989:

- 12,000 UST leak sites identified



# Alabama Department Of Environmental Management

## Underground Storage Tanks (UST)

Since 1989:

- 12,000 UST leak sites identified
- 11,000 UST sites cleaned up





# Alabama Department Of Environmental Management

## Underground Storage Tanks (UST)

Since 1989:

- 12,000 UST leak sites identified
- 11,000 UST sites cleaned up
- 1,000 UST sites currently being cleaned up



# Alabama Department Of Environmental Management

## Brownfields (BF)



# Alabama Department Of Environmental Management

## Brownfields (BF)

Since 2001:

- 450 BF sites identified



# Alabama Department Of Environmental Management

## Brownfields (BF)

Since 2001:

- 450 BF sites identified
- 300 BF sites returned to productive use



# Alabama Department Of Environmental Management

## Brownfields (BF)

Since 2001:

- 450 BF sites identified
- 300 BF sites returned to productive use
- 119 BF sites currently actively enrolled



# Alabama Department of Environmental Management

## EPA Update



# Alabama Department of Environmental Management

## EPA Update

- Election results changing EPA



# Alabama Department of Environmental Management

## EPA Update

- Election results changing EPA
- EPA agenda has been:





# Alabama Department of Environmental Management

## EPA Update

- Election results changing EPA
- EPA agenda has been:
  - Climate change



# Alabama Department of Environmental Management

## EPA Update

- Election results changing EPA
- EPA agenda has been:
  - Climate change
  - Social issues agenda



# Alabama Department of Environmental Management

## EPA Update

- Election results changing EPA
- EPA agenda has been:
  - Climate change
  - Social issues agenda
  - Greater Federal control



# Alabama Department of Environmental Management

## EPA Update

- Likely changes at EPA:



# Alabama Department of Environmental Management

## EPA Update

- Likely changes at EPA:
  - New agenda – unwind previous agenda



# Alabama Department of Environmental Management

## EPA Update

- Likely changes at EPA:
  - New agenda – unwind previous agenda
  - New Administrator & team



# Alabama Department of Environmental Management

## EPA Update

- Likely changes at EPA:
  - New agenda – unwind previous agenda
  - New Administrator & team
    - ✓ Senate confirmation: Deputy; 10 Asst. Admin.;  
General Counsel



# Alabama Department of Environmental Management

## EPA Update

- Likely changes at EPA:
  - New agenda – unwind previous agenda
  - New Administrator & team
    - ✓ Senate confirmation: Deputy; 10 Asst. Admin.; General Counsel
    - ✓ 10 Regional Administrators (eliminate some?)





# Alabama Department of Environmental Management

## EPA Update

- Likely changes at EPA:
  - More business-like [business friendly]



# Alabama Department of Environmental Management

## EPA Update

- Likely changes at EPA:
  - More business-like [business friendly]
  - Core mission only



# Alabama Department of Environmental Management

## EPA Update

- Likely changes at EPA:
  - More business-like [business friendly]
  - Core mission only
  - WOTUS & CPP rules withdrawn



# Alabama Department of Environmental Management

## EPA Update

- Likely changes at EPA:
  - More business-like [business friendly]
  - Core mission only
  - WOTUS & CPP rules withdrawn
  - Budget cuts



# Alabama Department of Environmental Management

## Resistance to EPA changes



# Alabama Department of Environmental Management

## Resistance to EPA changes

- More legal actions (citizens lawsuits)



# Alabama Department of Environmental Management

## Resistance to EPA changes

- More legal actions (citizens lawsuits)
- More petitions:



# Alabama Department of Environmental Management

## Resistance to EPA changes

- More legal actions (citizens lawsuits)
- More petitions:
  - To EPA for actions against states





# Alabama Department of Environmental Management

## Resistance to EPA changes

- More legal actions (citizens lawsuits)
- More petitions:
  - To EPA for actions against states
  - To AEMC for rulemaking



# Alabama Department of Environmental Management

## Resistance to EPA changes

- More legal actions (citizens lawsuits)
- More petitions:
  - To EPA for actions against states
  - To AEMC for rulemaking
- More appeals of permits



# Alabama Department of Environmental Management

## Resistance to EPA changes

- More legal actions (citizens lawsuits)
- More petitions:
  - To EPA for actions against states
  - To AEMC for rulemaking
- More appeals of permits
- More Civil Rights Act Title VI complaints



# Alabama Department of Environmental Management

## ADEM Agenda



# Alabama Department of Environmental Management

## ADEM Agenda

- ADEM agenda remains the same:



# Alabama Department of Environmental Management

## ADEM Agenda

- ADEM agenda remains the same:
  - Permits reflecting legal requirements



# Alabama Department of Environmental Management

## ADEM Agenda

- ADEM agenda remains the same:
  - Permits reflecting legal requirements
  - Compliance vs punishment



# Alabama Department of Environmental Management

## ADEM Agenda

- ADEM agenda remains the same:
  - Permits reflecting legal requirements
  - Compliance vs punishment
  - Rapid response for State competitive advantage





# Alabama Department of Environmental Management

## ADEM Agenda

- ADEM agenda remains the same:
  - Permits reflecting legal requirements
  - Compliance vs punishment
  - Rapid response for State competitive advantage
  - Low cost provider of top quality results



# Alabama Department of Environmental Management

## ADEM Funding



# Alabama Department of Environmental Management

## ADEM Funding

- Three Funding Sources:



# Alabama Department of Environmental Management

## ADEM Funding

- Three Funding Sources:
  - State General Fund Appropriations



# Alabama Department of Environmental Management

## ADEM Funding

- Three Funding Sources:
  - State General Fund Appropriations
  - State Fee Revenue



# Alabama Department of Environmental Management

## ADEM Funding

- Three Funding Sources:
  - State General Fund Appropriations
  - State Fee Revenue
  - Federal “Grants”



# Alabama Department of Environmental Management

## ADEM Funding

<u>FY</u>	<u>General Fund</u> \$ million	Rank in <i>Total</i> <u>Funding</u>
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# Alabama Department of Environmental Management

## ADEM Funding

<u>FY</u>	<u>General Fund</u> \$ million	Rank in <i>Total</i> <u>Funding</u>
2013	3.0	49 <sup>th</sup>





# Alabama Department of Environmental Management

## ADEM Funding

<u>FY</u>	<u>General Fund</u> \$ million	Rank in <i>Total</i> <u>Funding</u>
2013	3.0	49 <sup>th</sup>
2014	0.8	
2015	0.8	



# Alabama Department of Environmental Management

## ADEM Funding

<u>FY</u>	<u>General Fund</u> \$ million	Rank in <i>Total</i> <u>Funding</u>
2013	3.0	49 <sup>th</sup>
2014	0.8	50 <sup>th</sup>
2015	0.8	50 <sup>th</sup>



# Alabama Department of Environmental Management

## ADEM Funding

<u>FY</u>	<u>General Fund</u> \$ million	Rank in <i>Total</i> <u>Funding</u>
2013	3.0	49 <sup>th</sup>
2014	0.8	50 <sup>th</sup>
2015	0.8	50 <sup>th</sup>
2016	(0.9)	
2017	0.3	
2018	0.6	



# Alabama Department of Environmental Management

## ADEM Funding

- Federal funding = 35% of ADEM budget



# Alabama Department of Environmental Management

## ADEM Funding

- Federal funding = 35% of ADEM budget
- President 44.5% proposed **FY 2018** cut



# Alabama Department of Environmental Management

## ADEM Funding

- Federal funding = 35% of ADEM budget
- President 44.5% proposed **FY 2018** cut
- Congress sets budget



# Alabama Department of Environmental Management

## ADEM Funding

- Federal funding = 35% of ADEM budget
- President 44.5% proposed **FY 2018** cut
- Congress sets budget