

ADEM Emergency Response Program

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ADEM Emergency Response

State of Alabama Emergency Operations Plan –

ESF 10

(Oil and Hazardous Materials Response):

Designates ADEM as the lead agency in the response to an actual or potential release of oil, petroleum or hazardous materials resulting from a natural, manmade, or technological disaster.

- ADEM Emergency Response staff are tasked with responding to and ensuring any spill of petroleum or a hazardous material is properly managed and remediated to a pre-spill state to the closest extent feasible.
 - ER Staff are on call 24-7, 365 days a year including all state holidays. Responders are Field Environmental Scientists that serve on a part time rotation.









ER Program - Responses State Wide (all four field offices)

 Total of 285 Responses for FY 2016 – Air Responses: 25 = 9% of all responses
 Water Responses: 30 = 10% of all responses
 Land Responses: 230 = 81% of all responses

Average 290 Responses Annually

ER Program manages releases at the onset (Initial Emergency Phase); Transition the release to Water or Land Divisions for long-term monitoring and remediation on significant spills





ADEM Emergency Response

- ADEM Divisions:
 - -Land Division
 - -Water Division
 - -Air Division
 - -Permits and Services
 - Field Operations Division-

Emergency Response Program



Field Offices and AOR's

ADEM Emergency Response Coverage Areas

- Decatur
 (256) 260-5114
- Birmingham
 (205) 438-1080
- Montgomery
 (334) 850-6621
- Mobile
 (251) 581-0144







Reportable Releases:

-Petroleum based product:

A spill of 25 gallons or greater to land. Land includes soil, asphalt, and concrete.

*A spill of any amount that impacts or threatens to impact waters of the State. Waters of the State is defined as surface waters, groundwater and storm water drainage systems.

-Hazardous Materials:

Dependant on the chemical / material per Table 302.4 located in 40 CFR 302.4 - EPCRA

Generally reported by quantity or pounds (lbs.) (CFR = Code of Federal Regulations)









Who Can You Report To?

- National Response Center (NRC) (800) 424-8802
- Alabama Emergency Management Agency; State Warning Point (AEMA)
 (800) 843-0699
- Alabama Dept. of Environmental Management (ADEM)
 (334) 850-6621 ER 24 Hr Response Phone





How is ADEM Notified?

National Response Center (NRC) -

Generally via email and Flash Fax

- Alabama Emergency Management Agency AEMA
 Communications Room notifies the appropriate Field Office
 depending on location of spill
 - The Responsible Party Can report directly to ADEM
 - **General Public** Concerned citizens





Who is Responsible for Remediation of a Spill?

- The Responsible Party has ultimate accountability/liability in the event of a spill
- If the RP is unable or unwilling to respond, EPA may intervene through use of federal funds:

PRFA (Pollution Removal Funding Authorization) LGR (Local Government Reimbursement) OSLTF (Oil Spill Liability Trust Fund)





Response for Impacts to Surface Water

- Identify any potential impacts to Drinking Water Intakes and Critical Habitat
- Protect structure and contain spill if possible
- Notifications are made by ADEM ER to:
 - -ADEM Drinking Water Branch
 - -County Emergency Management Agency
 - -Local Water Municipalities (if possible)
 - -National Response Center
 - -EPA (if applicable)





Scale of Responses

Daily (Routine)

-Truck and Transportation Wrecks

-Public Complaints





Montgomery Co. tanker spill response







Waste Oil Tanker Roll-Over





ABC Transport Truck Accident I-65 near Clanton

Scale of Responses

- Multiple Times per Year
 - -Train Derailments
 - Isolated Weather Related Events
 - Facility Related Spills

Emergency Response

Train Derailment Marengo County; Enroute to Cape Canaveral, FL

Train Derailment Marengo County; Space Shuttle Solid Rocket Booster Segments

Scale of Responses

Large Scale National Relevance Responses –

-Hurricanes (Katrina, Ivan) -Deep Water Horizon Gulf Oil Spill -April 27, 2011 Tornado Outbreak -Pickens County Bakken Oil Derailment -2016 Colonial Pipeline Spill – Shelby County

Deepwater Horizon Facts

Well depth: 5000 feet

Department of Environmental Managemen

- Blowout: April 20, 2010
- Capped: July 15, 2010
- Well flowed for 87 days

- 3.19 million barrels of oil (>130 million gals.)
- 1.4 million gals of dispersant
- Alabama landfall late May/early June
- 1313 miles of Gulf shoreline impacted
- 30% of oil still unaccounted for

Alabama Department of Environmental Management

Deepwater Horizon Response

 Largest man-made environmental disaster in US history and largest marine oil spill in history.

First Spill of National Significance (SONS) in the US.

 SONS: a spill that, due to its severity, size, location, actual or potential impact on the public health and welfare of the environment, or the response effort, is so complex it requires extraordinary coordination of Federal, state, local, tribal and responsible party resources to contain and clean up the discharge.

CLAIMS INFORMATION

5

Amount of Boom Deployed by Unified Command Statewide (feet): 615,700 [Source: ICP Mobile Deepwater Horizon (MC-252) Situational Brief Operational Period 86: 15 July 2010]

 There are 674 independent vessels of opportunity (VOO) assigned to work Alabama waters. Of those, a total of 437 are working in surveillance and support functions and 237 are capable of skimming oil.

We have Ten (10) state agencies currently working the incident with a total of four hundred fourteen (414) personnel.

Alabama Department of Environmental Management (ADEM)-

The Deepwater Horizon oil spill is primarily an environmental (ESF10) incident and therefore ADEM has been designated as the lead agency to coordinate the activities of all the state agencies that will be responding. Seventeen (17) personnel are working in Unified Command or support Unified Command and working within the Emergency Operations Center for Alabama. Technical staff are assigned to SCAT, boom strategy, aerial surveillance, local government support and sampling.

615,700 feet = 116.6 miles

Baldwin Co. Beaches September 2016

ALBA2-054 through ALBA2-061

September 2, 2016

Alabama Department of Environmental Management

Baldwin Co. Beaches September 2016

ALBA1-005 through ALBA1-010 September 2, 2016 and September 9, 2016

Baldwin Co. Beaches September 2016

ALBA2-025 through ALBA2-034

September 3, 2016

April 27, 2011 Tornadoes by the Numbers

- 62 tornadoes
 - Total path 1,177 miles long, 20 miles wide
- 247 fatalities
 - 19 counties
- 88,050 FEMA registrations
 - Over \$66 million in FEMA grants: Individuals and Households
 - Nearly \$75 million approved SBA loans
 - >23,000 homes/apartments destroyed/heavy damage Debris
 - 10 million cubic yards identified
 - 90% removed in 90 days following April 27
 - >700 state/mutual aid responders

Impacts to Lake Martin from storm debris, household chemicals and E-Debris

Impacts to Lake Martin from storm debris, household chemicals and E-Debris

- Alabama & Gulf Coast
 Railway train derailed just south of Aliceville, AL
- No injuries reported
- 26 of 90 train cars derailed, 3 exploded sending flames hundreds of feet high, ignited surrounding cars (DOT 111)

Transported North Dakota Bakken Shale crude oil from Amory, MS to Walnut Hill, FL

Thursday November 8, 2013 – st 12:05AM

GA

Pickens Co. Derailment

Aliceville, AL – November 8, 2013

Pickens Co. Derailment

Aliceville, AL – November 8, 2013

Pickens Co. Derailment

Aliceville, AL – November 8, 2013

Alabama Department of Environmental Management

Colonial Pipeline Spill Pelham, Shelby County, Alabama

- September 9, 2016 Colonial Pipeline reported a gasoline spill to the National Response Center from a 36" subsurface transmission line
- Gasoline seeped out of the ground and flowed 500 feet down-gradient into a pond (flows into Peel creek but currently contained to the pond)
- Initial report was 2000 gallons of gasoline released, after response was initiated it was updated and currently estimated between 252,000 gallons – 336,000 gallons (6000-8000 barrels)
 - Incident Command Systems (ICS) was utilized:Spanned to 700+ Response PersonnelADEMEPAADEMCTEHADCNRCTEHAlabama EMA / Shelby County EMAUSCG Gulf Strike TeamLocal Responders (Fire/Police/Health)Colonial Pipeline (RP)

Colonial Pipeline Spill Pelham, Shelby County, Alabama

OPERATIONS

- Pipeline was shutoff but continued to drain at a rate of approximately 3 gallons per minute for up to a week
- High level of explosive vapors were the greatest limiting factor to recovery operations (LEL levels remained near the 100% range for over a week)
- CTEH provided air monitoring services (LEL's, Benzene, VOC's)
- Work interruptions were continuous due to excess benzene and LEL readings
- Approximately 87,579 gallons of gasoline removed from Pond 2-356,118 gallons Petroleum Contact Water
- No significant rainfall has occurred at the site

Sept. 10: Impacted Pond 2 on left; Pond 3 on Right.

Sept. 10: Impacted Pond 2.

Aerial photograph taken Sept. 18, Fuel confined to the upper 1/3 of the pond.

Pond 2 Collection point directly below the ravine.

Aerial showing reduction in fuel coverage and installation of protective shore boom.

Underflow dam construction on Peel Creek using 18" diameter pipes

Completed underflow dam in Peel Creek, approximately 200 feet southeast of the Cahaba River

On-Site Frac Tanks Holding Petroleum Contact Water

Initial Incident Command Post and ICS Unified Command Structure

QUESTIONS?