

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
May 2010 Tennessee Floods - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region IV

**Subject:** POLREP #7  
May 2010 Tennessee Floods  
Nashville, TN  
Latitude: 36.0991230 Longitude: -86.7587600

**To:**  
**From:** Steve Spurlin, On-Scene Coordinator  
**Date:** 5/10/2010  
**Reporting Period:** 0700 May 10, 2010 through 0700 May 11, 2010

## 1. Introduction

### 1.1 Background

<b>Site Number:</b>		<b>Contract Number:</b>	
<b>D.O. Number:</b>		<b>Action Memo Date:</b>	
<b>Response Authority:</b>	Stafford Act	<b>Response Type:</b>	Emergency
<b>Response Lead:</b>	FEMA	<b>Incident Category:</b>	Removal Assessment
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	5/3/2010	<b>Start Date:</b>	5/3/2010
<b>Demob Date:</b>		<b>Completion Date:</b>	
<b>CERCLIS ID:</b>		<b>RCRIS ID:</b>	
<b>ERNS No.:</b>		<b>State Notification:</b>	5/2/2010
<b>FPN#:</b>		<b>Reimbursable Account #:</b>	

#### 1.1.1 Incident Category

This is a response to severe flooding in portions of Western and Central Tennessee, which occurred due to heavy rains May 2 through May 3, 2010, and has been declared a National Disaster Area. To date, 42 counties have been declared.

#### 1.1.2 Site Description

EPA has responded to extensive flooding in Central and Western Tennessee caused by heavy rain May 2 and 3, 2010. Tennessee Emergency Management Agency (TEMA) established an Emergency Operations Center (EOC) at the National Guard Armory in Nashville, TN. EPA Emergency Response and Removal Branch (ERRB) mobilized under a request from Tennessee Department of Environment and Conservation (TDEC) under ESF-10 to conduct Oil and Hazardous Substance Assessment and Recovery in the designated counties of Tennessee.

##### 1.1.2.1 Location

Currently EPA has set up an Incident Command Post (ICP) in Nashville at the TEMA EOC with Operations being conducted in Central (Nashville) and Western (Jackson) Tennessee.

##### 1.1.2.2 Description of Threat

On May 2 through May 3, 2010, Central and Western Tennessee received approximately thirteen inches of rainfall, surpassing both 6 and 24-hr record rainfall amounts. The excessive rainfall led to extensive flooding of river systems in Central and Western Tennessee.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1 Operations Section

##### 2.1.1 Narrative

EPA is coordinating with TEMA, FEMA, and TDEC to assess impacted areas for oil and hazardous material releases. Currently, EPA Operations are divided into Western and Central Tennessee Operations. OSCs Garrard and Dixon are conducting assessments in Central Tennessee out of the Nashville ICP and OSCs Gaughan and Byrd are conducting assessments in Western Tennessee based from Memphis and Jackson. EPA currently has two missions, (1) to assess designated counties for oil and hazardous material releases due the flooding and (2) to remove and dispose of oil and hazardous materials discovered in these impacted areas.

#### 2.1.2 Response Actions to Date

During this operational period, the Central Tennessee Operations remained divided in two teams lead by OSCs Dixon and Garrard. The Assessment Team lead by OSC Dixon began reconnaissance activities at TrussCraft, LLC, which was reported to EPA by Cheatham County Fire Department. The team also conducted assessment at State Industries. The Assessment Team lead by OSC Garrard began reassessment activities at Nashville Electric Service (NES), Bonnell Aluminum, which was reported to EPA by TDEC, January Environmental and reassessment of drums and tanks along Nestor Road.

The Western Tennessee Operations remained divided into two teams lead by OSCs Gaughan and Byrd. The Assessment Team lead by OSC Gaughan began reassessment activities in Dyersburg in Dyer County, specifically on the south side of town where the majority of flooding was observed, as well as some smaller communities in the area. The team's goal was to identify what ERRS activities needed to take place in the area. The Assessment Team lead by OSC Byrd began reassessment activities in Shelby County, participating in a fly over conducted by the Shelby County Sheriff Department to better assess facilities with potential release of hazardous materials, and assessed FRP and chemical facilities by drive through of the county.

### Central Tennessee Operations-Assessment Team 1, Lead by OSC Dixon

#### Cheatham County

- The Assessment Team met with Kevin Harrell, the Environmental Engineer for A.O. Smith (aka State Industries) located at 500 Tennessee Waltz Parkway in Ashland City
  - Company manufactures water heaters, boilers and other various items, and the facility covers approximately forty acres.
  - The coordinates for the facility are 36.270033 N and -87.067278 W.
  - Three large propane tanks were observed. One was floating off its footing by a roll off box during the flood, but since water has receded, it has set back down on its footing. Due to concerns for the integrity of the tank, the crews emptied the liquid from the tank and are currently burning off residual liquid propane from the tanks using a flare tower.
  - The facility maintains a Spill Prevention Control and Countermeasure plan, and likely lost some oil during the flood. ASTs in the containment area were floating.
  - Several drums were observed outside the facility fence line. Clean up is ongoing and crews are in the process of recovering containers.
  - EPA will follow up with this facility to ensure clean up measures are completed.
- The Assessment Team conducted reconnaissance at TrussCraft, located at 1035 Graham Road in Ashland City. The team met with Billy Nettles, the Plant Supervisor.
  - The facility manufactures wood and steel trusses.
  - The coordinates for the facility are 36.215822 N and -86.999714 W.
  - The facility lost ten to twelve drums of oil / hydraulic fluid during the flood. The crews at the facility are currently cleaning up and preparing to commence operations.
  - The facility will not require further follow up by EPA.

#### Wayne County Assessment

- The Assessment Team contacted EMA director for Wayne County, Mr. Robert Farris. The director reported the county did not need assistance with hazardous materials and /or spills.
- The county will not require further follow up by EPA.

#### Lewis County Assessment

- The Assessment Team contacted a staff member at the EMA office for Lewis County. There was no EMA director listed for the county. The staff member reported the county did not need assistance with hazardous materials and /or spills.
- The county will not require further follow up by EPA.

#### DeKalb County Assessment

- The Assessment Team attempted to contact the EMA director for DeKalb County, Mr. Charlie Parker; however, contact was not made. The team left a message for the EMA director in regards to locating facilities of concern for hazardous materials release and left contact information. No return phone call was received.
- EPA will follow up with the county to contact the EMA Director.

#### Maury County Assessment

- The Assessment Team attempted to contact the EMA director for Maury County, Mr. Mark Blackwood; however, contact was not made. The team left a message for the EMA director in regards to locating facilities of concern for hazardous materials release and left contact information. No return phone call was received.
- EPA will follow up with the county to contact the EMA Director.

#### Clay County Assessment

- The Assessment Team contacted EMA director for Clay County, Ms. Natalie Boone. The director reported the county did not need assistance with hazardous materials and /or spills.
- The county will not require further follow up by EPA.

#### Macon County Assessment

- The Assessment Team contacted EMA director for Macon County, Mr. Keith Scruggs. The director reported the county did not need assistance with hazardous materials and /or spills.
- The county will not require further follow up by EPA.

#### Lawrence County Assessment

- The Assessment Team contacted EMA director for Lawrence County, Mr. Joe Baxter. The director reported the county did not need assistance with hazardous materials and /or spills.
- The county will not require further follow up by EPA.

## **Central Tennessee Operations-Assessment Team Two Lead by OSC Garrard**

#### Smith County

- The Assessment Team conducted reassessment at the Bonnell Aluminum facility in Gordonsville, TN. The crew is actively cleaning up the facility and is currently in operation.
- The facility will not require further follow up by EPA.

#### Wilson County

- The EMA director for the county contacted OSC Garrard and asked him to contact Environmental Science Corporation (ESC) about possible flooding at the facility. ESC was contacted and although they had approximately six inches of water in the facility, no chemical containers were compromised.

- Follow up in the county will not be required by EPA.

#### Davidson County

- The Assessment Team conducted reconnaissance of locations along Nestor Road Nashville, TN. Oil and drums located in a ditch were inspected and all but two drums were empty. Oil staining and debris was present. The water level in the creek located along Nestor Road has dropped and drums and debris remain on the banks and throughout the wooded areas. Sheen on the creek needs to be addressed.
- The Assessment Team deployed sixty feet of absorbent boom at the creek along Visco Drive at the intersection of Nestor Road.
- EPA will follow up on these locations along Nestor Road.
  
- The Assessment Team inspected drums across Briley Parkway near Nashville Electric Service (NES). The drums assessed were either empty or other debris. There is no further action required from EPA for the field down gradient from NES. No activities were ongoing at the NES facility or along Briley Parkway.
- EPA will follow up with NES to ensure clean up measures are completed.
  
- The Assessment Team stopped by Quality Plating to conduct assessment of the facility. The team was informed that the staff reported a 1,000 gallon 14% zinc solution spill to Metro Water.
- EPA will follow up with this location to make sure the spill has been cleaned up.

### **Western Tennessee Operations-Assessment Team One Lead by OSC Gaughan**

#### Gibson County

- The Assessment Team contacted a local Fire Department Chief in Gibson County. The chief reported localized minor flooding in the areas; however, no oil or hazardous material releases were reported.
- Follow up in the county will not be required by EPA.

#### Weakley County

- The Assessment Team contacted Jason Smith, the Deputy Director for the EMA in Weakley County. The director reported no significant flooding in the areas and no oil or hazardous material releases were reported.
- Follow up in the county will not be required by EPA.

#### Carroll County

- The Assessment Team contacted Amanda Sneed, the Deputy Director for the Carroll County EMA. The director reported no significant flooding in the areas and no oil or hazardous material releases were reported.
- Follow up in the county will not be required by EPA.

#### Benton County

- The Assessment Team contacted John Smoot, the Director of the Benton County EMA. The director reported a gasoline odor in the Birdsong Marina Area along route 191.
- EPA will further investigate the area and follow up with the EMA director.

### **Western Tennessee Operations-Assessment Team Two Lead by OSC Byrd**

#### Shelby County

- The Assessment Team assessed Ergon Terminaling, Inc., BKEP Materials LLC, Owens Corning Trumbull Asphalt, W.M. Barr & Company, Archer Daniels Midland

Company, and Cargill Foods, Inc. on Channel Avenue.

- Ergon Terminaling, BKEP, Owens Corning Trumbull Asphalt, Cargill Foods, Inc. and Archer Daniels Midland Company accumulated rain water in their tank containment areas; however, there was no release due to flooding.
- W.M Barr & Company also received an accumulation of rainfall in their containment areas and roof leakage; however, there was no release due to flooding.
- The Assessment Team assessed the Exxon Mobil Refining & Supply Company on Wisconsin Avenue. The facility accumulated rain water in their tank containment areas; however, there was no release due to flooding.
- The Assessment Team assessed Lion Oil Company and Petroleum Fuel & Terminal Company on Riverside Drive. Lion Oil accumulated rain water in their tank containment areas; however, there was no release due to flooding. Petroleum Fuel & Terminal Company reported no hazardous releases.
- The Assessment Team assessed Valero Terminaling and Distribution Company on Riverside Boulevard. The facility accumulated rain water in their containment area; however, there were no reported hazardous releases at the facility.
- The Assessment Team assessed American Commercial Marine Service Company on West Illinois Avenue. The facility accumulated rain water in their containment area; however, there were no reported hazardous releases at the facility.
- The Assessment Team assessed Premcor Refining Group on West Mallory Avenue. The facility reported no hazardous releases.
- The Assessment Team assessed the Tennessee Valley Authority power facility on Plant Road. The facility reported no hazardous releases.
- The Assessment Team assessed Chemtura Corporation on Pope Street. The facility accumulated rain water in their tank containment areas; however, there was no release due to flooding.
- The Assessment Team assessed Tiger, Inc (Leasee) on Old Millington Road. Staff at the facility reported flood waters within three inches of the levees. The facility reported no release of hazardous materials.
- The Assessment Team completed assessment at Cargill Foods, Inc. on Buoy Street. The facility reported no hazardous releases.
- The Assessment Team assessed Federal Express on Spankle Road. The facility reported no hazardous releases.
- The Assessment Team completed assessment at ConAgra on Williams Avenue. The facility reported no hazardous releases.
- The Assessment Team completed assessment at the Tennessee Valley Authority on Elm Tree Road. The facility reported no hazardous releases.
  - Follow up with the listed facilities above will not be required by the EPA.
- The Assessment Team made attempts to contact the Environmental Manager at Tangent Rail Products on Channel Avenue to assess the facility; however, no contact was made. EPA will follow up on this facility to determine if the facility poses a potential threat for hazardous release.
- The Assessment Team made attempts to contact the Environmental Manager at Buckeye Terminals, LLC on Rental Road to assess the facility; however, no contact was made. EPA will follow up on this facility to determine if the facility poses a potential threat for hazardous release.
- The Assessment Team made attempts to contact the Environmental

**Manager at Archer Daniels Midland Company on Chelsea Avenue to assess the facility; however, no contact was made. EPA will follow up on this facility to determine if the facility poses a potential threat for hazardous release.**

- **The Assessment Team made attempts to contact the Environmental Manager at BNSF Railway Company on East Shelby Drive to assess the facility; however, no contact was made. EPA will follow up on this facility to determine if the facility poses a potential threat for hazardous release.**

#### **EPA Water Division Under ESF-3**

**TDEC currently has a database established that outlines the status of wastewater facilities impacted by the flooding. This information was collected primarily through phone calls with TDEC during the past week, but it is continually being updated. Overall it is understood that 8 WWTPs were inundated with flood waters and 20 were in some way compromised.**

**TDEC Division of Water Supply has a spreadsheet identifying 5 PWSs currently on a Boil Water Notice and 9 PWSs with Diminished Capacity.**

**EPA met with USACE and TDEC drinking water reps to discuss the needs and status of water and wastewater facilities impacted by the floods. Additional communications with Atlanta have centered around the logistics of deploying a mobile laboratory and the technical staff necessary to fill the requests of TDEC.**

**A prioritized schedule for assessing wastewater treatment plants was created, focusing on facilities with the most damage and also the most rural systems. Assessment forms were developed to also aid in the evaluation of pump stations.**

#### **2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)**

#### **2.1.4 Progress Metrics**

### **2.2 Planning Section**

#### **2.2 Planning Section**

##### **2.2.1. Anticipated Activities**

EPA continues to try to identify locations for staging areas after the initial staging area location was deemed unacceptable for storage by the owner.

ERRS contractor, WRS Compass, arrived today and began obtaining necessary resources to begin recovery operations.

#### **EPA Water Division Team**

EPA anticipates that four wastewater and two drinking water assessment technical staff will be deployed Monday May 10, 2010, arriving in Nashville in the late afternoon. They will be briefed and prepped for assessing water and wastewater infrastructure on Tuesday. The teams will be working with TDEC staff from the regional field offices. Assessment will consist of calling utilities and visiting utilities to determine the flood damage and assist in prioritizing needed repairs and resource requirements to get facilities operational.

Assessments of public water systems will begin Tuesday morning with one Drinking Water Technical Expert reporting to the Columbia Environmental Field Office and one to the Nashville Environmental Field Office.

Laboratory staff will begin preparation on Monday for deployment of one mobile laboratory to the Jackson TDEC field office on Wednesday. An additional mobile laboratory may be available for deployment sometime next week. Each mobile lab is capable of analyzing up to 300 Microbiological samples daily for drinking water assessment. Additional sampling staff from SESD will arrive with the mobile lab, but will be dedicated to sampling wastewater discharges and surface water.

### 2.2.1.1. Planned Response Activities

The Assessment Teams will continue to complete reconnaissance of new facilities in their assigned counties and follow up with counties that have been deemed for further assessment.

ERRS will be briefed on the current status for the counties of concern and begin recovery operations.

### 2.2.2 Issues

## 2.3 Logistics Section

### 2.3 Logistics

## 2.4 Finance Section

### 2.4.1 Narrative

FEMA issued Mission Assignment No. 1909DR-TN-EPA-01 (FOS) on May 6, 2010 in the amount of \$100,000 for assessment activities.

FEMA issued Mission Assignment No. MA1909DR-TN-EPA-02 (DFA) on May 6, 2010, in the amount of \$575,000 for continued assessments and removal in support of ESF-10.

FEMA issued a Mission Assignment No. 1909DR-TN-COE-LRD-04 to EPA under ESF-3 in the amount of \$360,000 for support and technical assistance. EPA accepted this mission assignment on May 8, 2010.

### Estimated Costs \*

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
START	\$79,000.00	\$23,800.00	\$55,200.00	69.87%
START/ERRS	\$425,000.00	\$0.00	\$425,000.00	100.00%
<b>Intramural Costs</b>				
USEPA (ERRB) - Direct	\$171,000.00	\$12,600.00	\$158,400.00	92.63%
<b>Total Site Costs</b>				
	\$675,000.00	\$36,400.00	\$638,600.00	94.61%

\* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

## 2.5 Other Command Staff

No information available at this time.

## 3. Participating Entities

### 3.1 Unified Command

TEMA is coordinating the disaster response from their Nashville EOC. Multiple State, local, and Federal agencies are participating in the operations. EPA is supporting TEMA and TDEC through the ESF-10 missions. Currently the IC for EPA is OSC Spurlin.

### **3.2 Cooperating Agencies**

Tennessee Wildlife Resources Agency is supporting the assessment effort along impacted rivers.

#### **4. Personnel On Site**

##### Central Tennessee Operations

2 EPA, 2 START

2 ERRS - RM and FCA

##### Western Tennessee Operations

2 EPA, 2 START

##### ICP

3 EPA, 2 START

##### Water Division Team

Drinking water – Brian Smith

Wastewater – Sean Ireland

Arriving tonight (May 10, 2010) - Robert Olive, Amy Newbold, Araceli Bonilla, Humberto Guzman,

Karri-Jo Shell, Mary Millner

Demob – Dan O’Lone

#### **5. Definition of Terms**

No information available at this time.

#### **6. Additional sources of information**

##### **6.1 Internet location of additional information/report**

###### **6.1 Internet location of additional information/reports**

EPA will post other information published on this incident under the documents tab of the website

[www.epaosc.org/2010TNFloods](http://www.epaosc.org/2010TNFloods).

##### **6.2 Reporting Schedule**

EPA plans to publish a POLREP/SITREP for the incident on a daily basis.

#### **7. Situational Reference Materials**

No information available at this time.

POLREP #7 Last Updated 5/11/2010