

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Beaver Creek Bridge Crude Oil Spill - Removal Polrep  
Initial Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region IV

**Subject:** POLREP #1  
Initial Polrep - Beaver Creek Clean Up Initiated  
Beaver Creek Bridge Crude Oil Spill  
Z4ZB  
Glasgow, KY  
Latitude: 36.9914130 Longitude: -85.9861300

**To:** Jim McGuire, USEPA R4 ERRB  
Thomas M. McCrossen, NPFC

**From:** Perry Gaughan, OSC

**Date:** 9/20/2014

**Reporting Period:** Sept 19 through Sept 22nd, 2014

## 1. Introduction

### 1.1 Background

<b>Site Number:</b>	Z4ZB	<b>Contract Number:</b>	
<b>D.O. Number:</b>		<b>Action Memo Date:</b>	
<b>Response Authority:</b>	OPA	<b>Response Type:</b>	Emergency
<b>Response Lead:</b>	EPA	<b>Incident Category:</b>	Removal Action
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	9/19/2014	<b>Start Date:</b>	9/19/2014
<b>Demob Date:</b>		<b>Completion Date:</b>	
<b>CERCLIS ID:</b>		<b>RCRIS ID:</b>	
<b>ERNS No.:</b>		<b>State Notification:</b>	
<b>FPN#:</b>	E14459	<b>Reimbursable Account #:</b>	

#### 1.1.1 Incident Category

Emergency Response under the Oil Pollution Act.

#### 1.1.2 Site Description

The Site is approximately a one mile stretch of Beaver Creek four miles west of Glasgow, Kentucky near the Louie B Nunn Expressway.

##### 1.1.2.1 Location

The spill is located along Beaver Creek on a 50 acre farm along State Route 1297 where it runs under the Louie B. Nunn Expressway.

##### 1.1.2.2 Description of Threat

An unknown source of crude oil has saturated and impacted groundwater flowing into Beaver Creek on the southern edge of the 50 acre farm. The source appears to be one of three abandoned oil wells along the farm flood plain adjacent to Beaver Creek.

#### 1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

EPA working with Kentucky DEP and the property owner has located three former well locations which could potentially be the source of crude. Kentucky DOT has recently built an interchange on the L. Nunn Expressway on an 8 acre parcel of the farm upgradient of the creek.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

##### Friday September 19th, 2014

At Region 4 phone duty's request, the OSC met with Kentucky Dept of Environmental Protection (KDEP) Todd Johnston and Curtis McKenzie on Friday, Sep 19th to inspect areas of Beaver Creek which was impacted by crude oil. The crude oil spill is emanating from a 100 yard section of the left descending bank of Beaver Creek four miles west of Glasgow, Kentucky. The oil saturated section of creek is located on a 50 acre farm owned by a resident of Glasgow. After gaining access from the property owner Friday evening, the OSC issued a 50K task order to ERRs (CMC Inc.) and mobilized a crew early Saturday morning.

**Saturday, Sept 20th**

Absorbent boom previously placed by KDEP was switched out and additional absorbent boom and hard boom was placed along the 100 yard stretch of creek. In an effort to identify a point source, the OSC met with the property owner Saturday morning and two abandoned oil wells were found along the tree line of the creek flood plain. One well is approximately 300 yards from the spill location but there is no evidence of a crude oil spill along the surface. No information is currently available on when the two wells were plugged and the local Kentucky Oil and Gas representative is expected on site early Monday morning with KDEP officials. The OSC is proceeding under the current assumption that one of the wells was not properly plugged and has been leaking crude oil to subsurface groundwater for an extended period of time.

**Sunday, Sept 21st**

ERRs continued switching out absorbent boom and placing additional hard/absorbent boom at key locations along a one half mile stretch of Beaver Creek immediately south of the new interchange construction. The OSC and property owner continued surveying the flood plain for additional abandoned well locations in an effort to identify the point source of the spill.

**Monday, Sept 22nd**

The OSC met with Kentucky Oil and Gas inspector Ron Norris to inspect the spill area. Mr Norris indicated that hundreds of wells were drilled along a fault line referred to as the "Leeper Line" in this area of Kentucky and that the area is peppered with abandoned wells. From his records, a third well should be located within 200 feet of the spill location of the creek. A large amount of crude continues to flow from the bank edge at a rate approaching 10-20 gallons per hour. His information coincided with an oil stained area found on Saturday morning by the OSC and property owner. After digging in the area, surface casing to a third well was found 80 feet from the creek spill area. The OSC plans to request additional funds from NPFC to begin methodically plugging the three wells in the area.

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

**2.1.4 Progress Metrics**

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>

**2.2 Planning Section**

No information available at this time.

**2.3 Logistics Section**

No information available at this time.

**2.4 Finance Section**

**Estimated Costs \***

	<b>Budgeted</b>	<b>Total To Date</b>	<b>Remaining</b>	<b>% Remaining</b>
<b>Extramural Costs</b>				
ERRS - Cleanup Contractor	\$40,000.00	\$12,000.00	\$28,000.00	70.00%
<b>Intramural Costs</b>				
USEPA - Direct	\$5,000.00	\$500.00	\$4,500.00	90.00%
<b>Total Site Costs</b>				
	\$45,000.00	\$12,500.00	\$32,500.00	72.22%

\* 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**

**3.2 Cooperating Agencies**

Kentucky DEP, Kentucky Oil and Gas, Kentucky DOT

**4. Personnel On Site**

ERRs (CMC Inc. ) - 1 response manager, 4 laborers.

**5. Definition of Terms**

No information available at this time.

**6. Additional sources of information**

No information available at this time.

**7. Situational Reference Materials**

No information available at this time.

POLREP #1 Last Updated 9/23/2014