

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV

Subject: POLREP #2
Special - OPA 90 Work Plan - Additional Funding Request
Beaver Creek Bridge Crude Oil Spill

Glasgow, KY
Latitude: 36.9914130 Longitude: -85.9861300

To:
From: Perry Gaughan, OSC
Date: 9/23/2014
Reporting Period: Sep 23 through Sep 24

1. Introduction

1.1 Background

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

1.1.1 Incident Category

Region 4 Emergency Response and Removal Branch (ERRB) is responding to a continuous release of crude oil along a one half mile section of Beaver Creek four miles west of Glasgow, Kentucky. Response efforts were initially requested by Kentucky DEP and are being performed under the OSCs Oil Pollution Act authority.

1.1.2 Site Description

The spill Site is along the flood plain of a 50 acre farm four miles west of Glasgow. Crude oil continues to emanate from a creek bank into a 100 yard section of Beaver Creek in a remote section of the creek. Approximately a one half mile stretch of the creek has been impacted. The spill is located immediately south of a recent interchange construction by Kentucky DOT along the Louie B. Nunn Expressway between Interstate 65 and Glasgow, Ky.

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

The crude oil release is most likely emanating from one of three abandoned oil wells along the flood plain. The most likely scenario is that one or more wells were improperly plugged or cemented during well closure and crude is communicating with groundwater levels below surface.

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 through Monday Sep 22nd, 2014

Once access was granted by the farm owner, EPA tasked ERRs contractors to begin switching out boom previously placed by KDEP and placing hard boom as necessary to mitigate the threat of oil flowing downstream and impacting the Barren River Lake, a major recreational lake in the area. EPA working with

KDEP and Kentucky Oil and Gas has located three former oil well locations, one 80 feet from where crude oil is entering the creek.

Waterways Impacted

Beaver Creek flows into Barren River Lake which is a major recreational lake in western Kentucky.

Source of Crude Oil

The OSC is confident that the source of crude oil is one of three abandoned wells along the floodplain. The OSC plans to methodically plug all three wells until the flow of crude stops. The volume of crude oil which has impacted the creek is difficult to approximate (possibly 50-150 barrels).

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

The OSC is working with Kentucky Oil and Gas in identifying previous drillers in the area. Once identified, EPA will pursue normal responsible party liability and request plugging records by operators. Wells in this area of Kentucky date back to 1930's to 1940's. Wells in an area of Boyds Creek less than ten miles from this site date back to 1865 (Civil War).

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

2.2.1 Anticipated Activities

EPA currently plans on having ERRs contractor solicit oil well service subcontract bids and well and cement bond logging capability bids.

2.2.1.1 Planned Response Activities

Methodical plugging of all abandoned oil wells along the flood plain until the threat has been mitigated.

2.2.1.2 Next Steps

2.2.2 Issues

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

No information available at this time.

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.