

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
BNSF Galena Derailment - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V

**Subject:** POLREP #10  
Progress  
BNSF Galena Derailment  
E15510  
Galena, IL  
Latitude: 42.3744730 Longitude: -90.4443060

**To:** Richard Karl, EPA  
Sam Borries, EPA  
Jason El-Zein, EPA  
USCG Fund Center, USCG  
Kevin McCormack, USCG  
USCG Sector Upper Mississippi, USCG  
Ed Britton, US F&WS  
Russell Engelke, US F&WS  
Lisa Williams, US F&WS  
Robert Burr, US DOI  
Valencia Darby, US DOI  
Wayne Babcock, US DOI  
Greg Schweitzer, NOAA  
Kip Willis, US DOT FRA  
Mark Razny, DOT PHMSA  
Bruce Everetts, Illinois EPA  
Blaine Kinsley, Illinois EPA  
Jeff Guy, Illinois EPA  
Captain Laura Petreikis, Illinois DNR  
Steve Shults, Illinois IMT  
Chief Randy Beadle, Galena FD  
Chuck Pedersen, Jo Daviess County EMA

**From:** Jaime Brown, OSC  
**Date:** 3/24/2015  
**Reporting Period:** 3/20/2015 - 3/24/2015

## 1. Introduction

### 1.1 Background

<b>Site Number:</b>	E15510	<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>	PRP	<b>Incident Category:</b>	Removal Action
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	3/5/2015	<b>Start Date:</b>	3/5/2015
<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>	E15510	<b>Reimbursable Account #:</b>	Z5PL

### **1.1.1 Incident Category**

Emergency Response

### **1.1.2 Site Description**

See POLREP #5

#### **1.1.2.1 Location**

See POLREP #5

#### **1.1.2.2 Description of Threat**

See POLREP #5

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

See POLREP #5

## **2. Current Activities**

### **2.1 Operations Section**

#### **2.1.1 Narrative**

The water treatment system deployed to treat contact water from the excavation area was constructed and tested. A contract was awarded and excavation of contaminated soils is underway. Remaining US EPA personnel demobilized and field oversight personnel from Illinois EPA are on site to oversee the excavation.

#### **2.1.2 Response Actions to Date**

During this reporting period, the following field activities took place:

- Daily surface water samples continued to be taken at the source and upstream/downstream locations;
- Roadway repairs & maintenance continued on roads to & from the Site, particularly on Pilot Knob Road;
- A water treatment system was assembled at the Site to treat contact water during excavation activities; and
- Heavy equipment was mobilized & excavation of contaminated soils commenced.

There continues to be no visual or monitoring data evidence to indicate that any spilled product has impacted either the Galena or Mississippi Rivers.

To date, the following environmental monitoring & sampling has taken place to determine impacts to the environment:

- 4300 real-time air monitoring readings were taken (3/5 - 3/11) at 9 fixed locations for VOCs & PM2.5;
- 75 air samples were collected & analyzed in a laboratory for VOCs & PAHs;
- 143 soil samples from 39 borings were analyzed in a laboratory for PNAs, BTEX & TPH (DRO/GRO/ERO);
- Surface water samples were taken daily at the source (wreck site), 4 upstream & 5 downstream locations (3/7 - 3/11) for field parameters (depth, flow, temp, DO, ORP, conductivity & pH) and VOCs, PNAs, BTEX, TPH (DRO, GRO, ORO) analysis in a laboratory; and
- Surface water sampling continues daily at the source, 2 upstream & 2 downstream locations (3/11 -

present).

River levels were tracked throughout the response in the Galena River at Buncombe, WI and in the Mississippi River at Dubuque, Iowa and Bellevue, Iowa. Monitoring, sampling and river level data can be found in summary form in the 'documents' section of the website.

There were no injuries at the Site or wildlife impacts reported during the reporting period.

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

See POLREP #5

### **2.1.4 Progress Metrics (totals to date)**

<b>Waste Stream</b>	<b>Medium</b>	<b>Quantity</b>	<b>Manifest #</b>	<b>Treatment</b>	<b>Disposal</b>
Crude oil	liquid	223,795 gal	TBD	staged	TBD
Oil/water mixture	liquid	27,825 gal	TBD	staged	TBD
Contaminated soil	solid	TBD	TBD	staged	TBD
Tanker cars	solid	12	NA	salvage	scrap

## **2.2 Planning Section**

### **2.2.1 Anticipated Activities**

- Illinois EPA and US EPA will coordinate in oversight of continuing response activities to ensure protection of public health & the environment;
- Excavation & backfilling activities will be completed;
- Planning will commence to develop a restoration plan for the impacted area; and
- BNSF will continue containment/monitoring of the release.

#### **2.2.1.1 Planned Response Activities**

Response activities continue under the IAP for OP#10 until 0700 hrs on 3/25/2015. The Unified Command will formally dissolve on 3/25/2015 and no further IAPs are anticipated. US EPA transitioned oversight of excavation operations to Illinois EPA Project Manager Jeff Guy on 3/20/2015.

#### **2.2.1.2 Next Steps**

Illinois EPA and US EPA will coordinate in oversight of continuing response activities. US EPA and Illinois EPA representatives plan to attend an 'After Action Report' coordination meeting on 3/27/2015 in Galena, Illinois.

#### **2.2.2 Issues**

Correspondence was sent on 3/24/2015 from US EPA to Illinois EPA indicating that the water treatment plant on site to treat contact water from the excavation area is exempt from NPDES permitting requirements pursuant to Section 311 of the Clean Water Act, 40 CFR Part 122.3(d) of the NPDES regulations, and the NCP until the excavation & backfilling activities are completed.

## **2.3 Logistics Section**

A command post is located off of Pilot Knob Road to support ongoing response activities.

## **2.4 Finance Section**

### **2.4.1 Narrative**

The approved cost ceiling for overall response under FPN #E15510 remains at \$250,000.

The cost ceiling for a TDD to START contractor Tetra Tech EM is being increased to \$75,700. The EPA Mobile Command Post was demobilized by ERRS contractor EQM under an existing Task Order.

**Estimated Costs \***

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
ERRS - Cleanup Contractor	\$7,000.00	\$6,000.00	\$1,000.00	14.29%
START	\$75,700.00	\$60,000.00	\$15,700.00	20.74%
USCG Atl Strike Force	\$30,000.00	\$25,000.00	\$5,000.00	16.67%
<b>Intramural Costs</b>				
USEPA - Direct	\$75,000.00	\$52,000.00	\$23,000.00	30.67%
<b>Total Site Costs</b>				
	\$187,700.00	\$143,000.00	\$44,700.00	23.81%

\* 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**

**2.5.1 Safety Officer**

Safety briefings are still held each day for individual contractor personnel by their respective field supervisors.

**2.5.2 Liaison Officer**

A briefing for Congressional representatives was held on 3/23/2015.

**2.5.3 Information Officer**

US EPA to respond to press inquiries and requests for interviews and information related to the incident upon request. A website for the incident (see link in Section 6.2) continues to be updated.

**3. Participating Entities**

**3.1 Unified Command**

The UC will formally dissolve on 3/25/2015. The Illinois EPA representative from the Illinois Site Remediation Program (Jeff Guy) is managing the remediation phase of the response with assistance from field personnel from the Illinois EPA Rockford Field Office.

**3.2 Cooperating Agencies**

See POLREP #5

**4. Personnel On Site**

FEDERAL: 0\*  
 STATE: 1  
 BNSF: 1  
 CONTRACTORS: 20

TOTAL (estimated): 22

\*OSC Kimble demobilized from the Site on 3/24/2015 @ 0800hrs.

## 5. Definition of Terms

bgs	below ground surface
BNSF	Burlington Northern Santa Fe
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CTEH	Center for Toxicology and Environmental Health LLC
CWS	Clean Water Act
DO	Dissolved Oxygen
DRO	Diesel Range Organics
ERO	Extended Range Organics
ERRS	Emergency and Rapid Response Services
FPN	Federal Project Number
GRO	Gasoline Range Organics
HASP	Health & Safety Plan
IC	Incident Commander
ICP	Incident Command Post
ICS	Incident Command System
IMT	Incident Management Team
MCP	Mobile Command Post
NCP	National Contingency Plan
NPDES	National Pollution Discharge Elimination System
NRC	National Response Center
OP	Operational Period
OPS	Operations Section Chief
ORO	Oil Range Organics
ORP	Oxidation Reduction Potential
OSC	On-Scene Coordinator
PAH	Polycyclic Aromatic Hydrocarbon
PM	Particulate Matter
PNA	Polynuclear Aromatic Hydrocarbon
POLREP	Pollution Report
SDS	Safety Data Sheet
Sitrep	Situation Report
START	Superfund Technology Assessment and Response Team
TDD	Technical Direction Document
TPH	Total Petroleum Hydrocarbons
UC	Unified Command
US FWS	United States Fish & Wildlife Service
VOC	Volatile Organic Compound

## 6. Additional sources of information

### 6.1 Internet location of additional information/report

<http://www.epaosc.org/bnsfgalenaspill>.

<http://www2.epa.gov/il/galena-train-derailment>

### 6.2 Reporting Schedule

The next POLREP will be issued at the conclusion of excavation & backfilling operations.

## 7. Situational Reference Materials

No information available at this time.