

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
D&L Energy Oil Spill - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V

**Subject:** POLREP #3  
D&L Energy Oil Spill  
Z5M7  
Youngstown, OH  
Latitude: 41.1264060 Longitude: -80.7022330

**To:** Valencia Darby, Department of Interior  
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**From:** Jeffrey Lippert, On-Scene Coordinator

**Date:** 2/15/2013

**Reporting Period:** 2/11/2013 - 2/15/2013

**1. Introduction**

**1.1 Background**

<b>Site Number:</b>	Z5M7	<b>Contract Number:</b>	N/A
<b>D.O. Number:</b>	N/A	<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>	N/A
<b>Mobilization Date:</b>	2/2/2013	<b>Start Date:</b>	2/1/2013
<b>Demob Date:</b>		<b>Completion Date:</b>	
<b>CERCLIS ID:</b>		<b>RCRIS ID:</b>	N/A
<b>ERNS No.:</b>		<b>State Notification:</b>	Yes
<b>FPN#:</b>	E13505	<b>Reimbursable Account #:</b>	

### 1.1.1 Incident Category

Emergency Response

### 1.1.2 Site Description

The site is the location of D&L Energy. There are approximately 20 - 30 portable 22,000-gallon storage tanks on the site. Ohio EPA informed EPA that an employee of the company was deliberately discharging the contents of one of the tanks to the storm sewer during the night on 1/31/2013. The tank contained a mixture of crude oil, drilling mud, and brine.

#### 1.1.2.1 Location

2761 Salt Springs Road, Youngstown, Ohio 44509.

#### 1.1.2.2 Description of Threat

An employee of D&L Energy was deliberately discharging a mixture of crude oil, drilling mud, and brine to the storm sewer. The storm sewer outfalls to a small creek that flows into the Mahoning River. Oil was observed flowing from the storm sewer outfall, in the creek, and in the Mahoning River.

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

EPA toured the site with Ohio EPA upon arrival at 0700 on 2/2/2013. EPA observed pools and pockets of oil in the Mahoning River and the creek.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

EPA is currently overseeing the RP's cleanup contractors. The contractors are conducting the following activities: maintaining a dam, water removal, and water filtration system on the creek, near the confluence of the creek and the Mahoning River; maintaining containment boom at the mouth of the creek in the Mahoning River; agitating the creek sediment using pressurized water and other methods to liberate oil for collection and removal; removing grossly contaminated sediment using an excavator and other methods; establishing and maintaining collection points for the oil along the creek; mopping up oil with absorbents; removing oil using vacuum trucks; and flushing and cleaning the storm sewer system.

#### 2.1.2 Response Actions to Date

On 2/11/2013, EPA oversaw the deployment of additional containment and absorbent boom and pads in the creek, installation of sediment control measures along the creek, vacuum truck operations on the creek, mopping up oil with absorbents, agitating the creek sediment using pressurized water and other methods to liberate oil for collection and removal, removal of grossly contaminated sediment using an excavator and other methods, and cleaning the storm sewer with high pressure water. Removing water from the creek on the downstream side of the railroad culvert continued as a 24-hour operation. The creek water is being run through a temporary treatment system before it is discharged to the Mahoning River. Water removal, treatment, and discharging operations were shut down when it was determined that the temporary water storage and treatment system was not adequate to achieve the turbidity

standard set by the Ohio EPA for the discharged water. Additional access points along the storm sewer were being established to facilitate safe cleaning operations.

On 2/12/2013, EPA oversaw the deployment of additional containment and absorbent boom and pads in the creek, vacuum truck operations on the creek, mopping up oil with absorbents, agitating the creek sediment using pressurized water and other methods to liberate oil for collection and removal, removal of grossly contaminated sediment using an excavator and other methods, placing geotextile fabric and riprap in areas that have been cleaned but are inaccessible for excavation, and cleaning the storm sewer with high pressure water. Water removal, treatment, and discharging operations remained shut down.

On 2/13/2013, EPA oversaw the deployment of additional containment and absorbent boom and pads in the creek, vacuum truck operations on the creek, mopping up oil with absorbents, agitating the creek sediment using pressurized water and other methods to liberate oil for collection and removal, removal of grossly contaminated sediment using an excavator and other methods, placing geotextile fabric and riprap in areas that have been cleaned but are inaccessible for excavation, and cleaning the storm sewer with high pressure water. Water removal, treatment, and discharging operations remained shut down. Additional fractionation tanks and a filtration system were mobilized to treat the creek water prior to discharging it to the Mahoning River. EPA collected a sample of the solid material removed from the storm sewer during cleaning and sludge in the bottom of the fractionation tank that was discharged into the storm sewer. These samples were submitted to a laboratory for the following analysis: total and TCLP VOCs, total and TCLP SVOCs, total and TCLP metals, and PCBs.

On 2/14/2013, EPA oversaw the deployment of additional containment and absorbent boom and pads in the creek, vacuum truck operations on the creek, mopping up oil with absorbents, removal of grossly contaminated sediment using an excavator, solidification of the excavated sediment, placing of geotextile fabric and riprap in areas that have been cleaned but are inaccessible for excavation, and cleaning the storm sewer with high pressure water. Water removal, treatment, and discharge operations resumed following the installation and testing of the new filtration system. A central solid waste staging area was established on the D&L property to allow for easier tracking of the waste as it is generated and eventually transported off site for disposal.

On 2/15/2013, EPA oversaw the deployment of additional containment and absorbent boom and pads in the creek, vacuum truck operations on the creek, mopping up oil with absorbents, removal of grossly contaminated sediment using an excavator, solidification of the removal sediment, and cleaning the storm sewer with high pressure water. Water removal, treatment, and discharge operations continued as a 24-hour operation. The RP contractors will run a skeleton crew over the weekend to ensure that no oil or sheen enters the Mahoning River. There will be a crew on site during the day to maintain containment and mop up any accumulated oil in the creek. There will be a crew on site 24 hours to maintain water removal, treatment, and discharge operations as well as maintain containment at the confluence of the creek and the Mahoning River and at the storm sewer outfall.

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

D&L Energy stated, to both the Ohio EPA OSC and the EPA OSC, that he has knowingly dumped the contents of 3 - 6 frac tanks into the storm sewer. EPA-CID and Ohio EPA law enforcement were both notified.

### 2.1.4 Progress Metrics

The following quantities are up-to-date as of 0700 on 2/15/2013.

<i><b>Waste Stream</b></i>	<i><b>Medium</b></i>	<i><b>Quantity</b></i>	<i><b>Manifest #</b></i>	<i><b>Treatment</b></i>	<i><b>Disposal</b></i>
Oily Solid	Solid	80 cubic yards	Staged on-scene		

Oil and Water	Liquid	55,400 gallons	235505, 235504, 234578, 235357, 235300, 235359, 235327, 235336, 235293, 235292, 235330	Patriot Water Treatment, LLC.	
Oil and Water	Liquid	77,000	Staged on-scene		
Oily Sediment	Solid/Sludge	220 cubic yards	Staged on-scene		
Creek Water	Liquid	125,000 gallons	NA	Settling and Filtration	Discharge to Mahoning River

**2.2 Planning Section**

**2.2.1 Anticipated Activities**

Maintain the dam and water removal system at confluence of the creek and the Mahoning River; maintain containment boom at the confluence of the creek in the Mahoning River, continue agitating the creek sediment using pressurized water and other methods to liberate oil for collection and removal; continue removing grossly contaminated sediment using an excavator and other methods; continue collecting and removing liberated oil from the creek using absorbents and vacuum trucks; establish additional sediment control and collection areas along the creek; and continue cleaning the storm sewer system.

**2.2.1.1 Planned Response Activities**

Continued agitation of the sediment in the creek. Continued removal of grossly contaminated sediment from the creek. Continued creek water removal and treatment activities. Continued use of vacuum trucks and absorbents to collect oil from the creek. Continue cleaning of the storm sewer.

**2.2.1.2 Next Steps**

Transition site to Ohio EPA for long-term oversight.

**2.2.2 Issues**

Access to the creek is difficult due to the forested terrain and steep slopes. There is limited access to the storm sewer for cleaning. Additional access points are being established to facilitate safe cleaning operations.

**2.3 Logistics Section**

Not Applicable.

**2.4 Finance Section**

**2.4.1 Narrative**

An FPN for this Emergency Response was issued for \$15,000. The ceiling has been increased to \$80,000.

**2.5 Other Command Staff**

**2.5.1 Safety Officer**

TJ McFarland

**2.5.2 Liaison Officer**

Jeff Lippert

### **2.5.3 Information Officer**

Francisco Arcuate

## **3. Participating Entities**

### **3.1 Unified Command**

Not Applicable.

### **3.2 Cooperating Agencies**

Ohio EPA

Ohio DNR - Division of Oil and Gas

City of Youngstown

## **4. Personnel On Site**

Sunpro and Enviroscience - 28

Heavy Duty - 12

Ohio EPA - 1

EPA - 1

START - 1

## **5. Definition of Terms**

EPA - Environmental Protection Agency

DNR - Department of Natural Resources

NRC - National Response Center

OSC - On-Scene Coordinator

NCP - National Oil and Hazardous Substance Pollution Contingency Plan

OPA90 - Oil Pollution Act of 1990

RP - Responsible Party

FPN - Fund Project Number

START - Superfund Technical Assessment and Response Team

ERRS - Emergency and Rapid Response Service

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

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

[www.epaosc.org/dandleenergy](http://www.epaosc.org/dandleenergy)

### **6.2 Reporting Schedule**

Polreps will be issued as needed.

## **7. Situational Reference Materials**

NCP

OPA90