

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
PDC Energy Oil Spill - Removal Polrep
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: **POLREP #8**
Final
PDC Energy Oil Spill
Z5NH
Beverly, OH
Latitude: 39.6159881 Longitude: -81.6669809

To: Andrew Maguire, EPA
Mark Johnson, ATSDR
Valencia Darby, Department of Interior
Todd Goeks, NOAA
Laurie Lee, NOAA
Craig Butler, Ohio EPA
Kevin Clouse, Ohio EPA
Scott Shane, Ohio EPA
Wayne Babcock, U.S. Department of Interior
Robert Burr, U.S. Department of Interior
Lindy Nelson, U.S. DOI
Carolyn Bohlen, U.S. EPA
Sam Borries, U.S. EPA
Yolanda Bouchee-Cureton, U.S. EPA
Mindy Clements, U.S. EPA
Isalee Coleman, U.S. EPA
Mark Durno, U.S. EPA
Jason El-Zein, U.S. EPA
HQ EOC, U.S. EPA
Sherry Fielding, U.S. EPA
Charlie Gebien, U.S. EPA
John Glover, U.S. EPA
Mick Hans, U.S. EPA
Sharon Jaffess, U.S. EPA
Luke Jones, U.S. EPA
Matt Mankowski, U.S. EPA
Thomas Marks, U.S. EPA
Mike Ribordy, U.S. EPA
Ellen Riley, U.S. EPA
Annette Trowbridge, U.S. Fish & Wildlife
Jake Glascock, Ohio DNR
Freddie Thompson, USCG
Shelly Lam, U.S. EPA

From: Betsy Nightingale, On-Scene Coordinator
Date: 6/26/2014
Reporting Period: 5/22/14-6/25/14

1. Introduction

1.1 Background

| | | | |
|----------------------------|-----------|--------------------------------|----------------|
| Site Number: | Z5NH | Contract Number: | |
| D.O. Number: | | Action Memo Date: | |
| Response Authority: | OPA | Response Type: | Emergency |
| Response Lead: | PRP | Incident Category: | Removal Action |
| NPL Status: | Non NPL | Operable Unit: | |
| Mobilization Date: | 5/4/2014 | Start Date: | 5/4/2014 |
| Demob Date: | 5/22/2014 | Completion Date: | 6/25/2014 |
| CERCLIS ID: | | RCRIS ID: | |
| ERNS No.: | | State Notification: | |
| FPN#: | E14519 | Reimbursable Account #: | |

1.1.1 Incident Category
Emergency Response - OPA

1.1.2 Site Description

Please see prior POLREPs.

1.1.2.1 Location

1010 Center Bend Rd
Beverly, Morgan County, Ohio

1.1.2.2 Description of Threat

Please see prior POLREPs.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Please see prior POLREPs.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

EPA oversaw emergency response actions implemented by PDC Energy at this site between May 4 and May 21, 2014, as described in prior POLREPs. On May 21st, the bulk of the free product released to the surface waters had been collected, and EPA transitioned oversight of the ongoing cleanup to Ohio EPA according to the continuing operations plan and demobilized from the site. EPA remained available to provide additional assistance as needed, as the extent of subsurface contamination was not yet known. Over the course of the last few weeks, under Ohio EPA and Ohio DNR oversight, the drill rig was removed from the site, the drill pad surface was cleaned, the liner was inspected and removed and subsurface investigation of the pad was initiated. Some additional subsurface investigation and oil collection is still ongoing, but so far the investigation has not revealed significant previously unknown areas of contamination. On June 25th, Ohio EPA determined that the emergency phase of the cleanup is complete. Therefore, is not anticipated that EPA assistance will be needed with any further emergency response related activities resulting from this release. Ohio EPA will remain involved in the continuing subsurface investigation and in site restoration.

2.1.2 Response Actions to Date

Please see prior POLREPs.

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

A Notice of Federal Interest was issued to PDC Energy on 5/5/2014.

2.1.4 Progress Metrics

Metrics are reported for the time period in which EPA was on site overseeing the response (May 4 - May 21, 2014).

| Date | Waste Stream | Medium | Amount | Units | Disposal | Treatment |
|-----------|-------------------------|--------|--------|---------|----------|-----------|
| 5/7/2014 | bagged oily waste | Solid | 68 | bags | x | |
| 5/8/2014 | bagged oily waste | Solid | 128 | bags | x | |
| 5/9/2014 | bagged oily waste | Solid | 112 | bags | x | |
| 5/10/2014 | bagged oily waste | Solid | 506 | bags | x | |
| 5/11/2014 | bagged oily waste | Solid | 203 | bags | x | |
| 5/12/2014 | bagged oily waste | Solid | 234 | bags | x | |
| 5/13/2014 | bagged oily waste | Solid | 226 | bags | x | |
| 5/14/2014 | bagged oily waste | Solid | 114 | bags | x | |
| 5/15/2014 | bagged oily waste | Solid | 155 | bags | x | |
| 5/16/2014 | bagged oily waste | Solid | 75 | bags | x | |
| 5/17/2014 | bagged oily waste | Solid | 25 | bags | x | |
| 5/18/2014 | bagged oily waste | Solid | 208 | bags | x | |
| 5/19/2014 | bagged oily waste | Solid | 80 | bags | x | |
| 5/20/2014 | bagged oily waste | Solid | 134 | bags | x | |
| 5/8/2014 | oil/fluid/water mixture | Liquid | 3125 | barrels | x | |
| 5/9/2014 | oil/fluid/water mixture | Liquid | 1350 | barrels | x | |
| 5/10/2014 | oil/fluid/water mixture | Liquid | 1600 | barrels | x | |
| 5/11/2014 | oil/fluid/water mixture | Liquid | 312 | barrels | x | |
| 5/12/2014 | oil/fluid/water mixture | Liquid | 1852 | barrels | x | |
| 5/13/2014 | oil/fluid/water mixture | Liquid | 3808 | barrels | x | |
| 5/14/2014 | oil/fluid/water mixture | Liquid | 1401 | barrels | x | |
| 5/17/2014 | oil/fluid/water mixture | Liquid | 355 | barrels | x | |
| 5/20/2014 | oil/fluid/water mixture | Liquid | 2870 | barrels | x | |
| 5/7/2014 | contaminated soil | Solid | 6 | yards | x | |
| 5/8/2014 | contaminated soil | Solid | 16 | yards | x | |
| 5/17/2014 | contaminated soil | Solid | 1 | yards | x | |
| 5/18/2014 | contaminated soil | Solid | 20 | yards | x | |
| 5/19/2014 | contaminated soil | Solid | 15 | yards | x | |

Totals **bagged oily waste**

2268bags

oil/fluid/water
mixture
contaminated soil

16673bbbls
58yards

700266gallons

| Regional Metrics | | |
|---|---|---|
| This is an Integrated River Assessment. The numbers should overlap. | Miles of river systems cleaned and/or restored | Approx. 1/2 mile |
| | Cubic yards of contaminated sediments removed and/or capped | Approx. 58 |
| | Gallons of oil/water recovered | Approx. 700266 gallons of mixed fluid |
| | Acres of soil/sediment cleaned up in floodplains and riverbanks | Approx. 1/2 acre of sediment |
| Stand Alone Assessment | Number of contaminated residential yards cleaned up | 2 |
| | Number of workers on site | Approximate average 100 per day over course of response |
| Contaminant(s) of Concern | Oil | |
| Oil response Tracking | | |
| Estimated volume | Initial amount released | Approx. 15,372 gallons |
| | Final amount collected | Approx. 700,266 gallons of mixed fluid |
| CANAPS Info | FPN Ceiling Amount | \$133,000 |
| | FPN Number | E14519 |
| | Body of Water affected | Unnamed creek and Cow Run Creek (tributaries to Olive Green Creek, Muskingum River) |
| Administrative and Logistical Factors (Check X where applicable) | | |
| <input checked="" type="checkbox"/> Precedent-Setting HQ Consultations (e.g., fracking, asbestos) | Community challenges or high involvement | Radiological |
| <input checked="" type="checkbox"/> More than one PRP | Endangered Species Act / Essential Fish Habitat issues | Explosives |
| AOC | Historic preservation issues | <input checked="" type="checkbox"/> Residential impacts |
| UAO | NPL site | <input checked="" type="checkbox"/> Relocation |
| DOJ involved | <input checked="" type="checkbox"/> Remote location | Drinking water impacted |
| Criminal Investigation Division involved | Extreme weather or abnormal field season | Environmental justice |
| Tribal consultation or coordination or other issues | Congressional involvement | High media interest |

| | | |
|---|--|--|
| Statutory Exemption for \$2 Million | Statutory Exemption for 1 Year | Active fire present |
| Hazmat Entry Conducted – Level A, B or C | x Incident or Unified Command established | Actual air release (not threatened) |

2.2 Planning Section

2.2.1 Anticipated Activities

No further EPA response activities are anticipated.

2.2.1.1 Planned Response Activities

An after action review is tentatively planned for response participants.

2.2.1.2 Next Steps

2.2.2 Issues

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

2.4.1 Narrative

START costs are estimated through June 26, 2014.

USCG costs are final.

OSC Maguire was initially issued a Federal Project Number (FPN) with a ceiling of \$50,000. On May 8, 2014, the ceiling was increased to \$75,000. On May 10, 2014, the FPN ceiling was increased to \$100,000. On May 16, 2014, the ceiling was increased to \$133,000.

Estimated Costs *

| | Budgeted | Total To Date | Remaining | % Remaining |
|-------------------------|--------------------|----------------------|--------------------|--------------------|
| Extramural Costs | | | | |
| USCG | \$10,000.00 | \$6,723.00 | \$3,277.00 | 32.77% |
| TAT/START | \$70,720.00 | \$58,266.00 | \$12,454.00 | 17.61% |
| Intramural Costs | | | | |
| | | | | |
| Total Site Costs | \$80,720.00 | \$64,989.00 | \$15,731.00 | 19.49% |

* 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

EPA, Ohio EPA, PDC Energy

3.2 Cooperating Agencies

Ohio Department of Natural Resources

US Coast Guard (2 members of the USCG Strike Teams arrived on site on May 12 to assist with clean up oversight, and remained onsite through May 19th.)

National Weather Service (NWS provided detailed forecasts, quantities of rainfall predicted and received, and river flow information every 8 hours or more often if necessary via email. NWS also provided radio alerts of incoming severe weather.)

US Fish & Wildlife Service

4. Personnel On Site

No information available at this time.

5. Definition of Terms

| | |
|-------------------|--|
| ATSDR | Agency for Toxic Substances and Disease Registry |
| BZ | Breathing Zone |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CERCLIS | Comprehensive Environmental Response, Compensation, and Liability Information System |
| DNR | Department of Natural Resources |
| EPA | Environmental Protection Agency |
| ERNS | Emergency Response Notification System |
| ERRS | Emergency and Rapid Response Service |
| NG/M ³ | nanograms per cubic meter |
| NCP | National Oil and Hazardous Substance Pollution Contingency Plan |
| NOAA | National Oceanic and Atmospheric Administration |
| NPL | National Priorities List |
| NRC | National Response Center |
| OEPA | Ohio Environmental Protection Agency |
| ODH | Ohio Department of Health |
| OSC | On Scene Coordinator |
| PPE | Personal Protective Equipment |
| PPM | Parts per million |
| RCRIS | Resource Conservation and Recovery Act Information System |
| RP | Responsible Party |
| RRT | Regional Response Team |
| START | Superfund Technical Assessment and Response Team |
| US FWS | United States Fish and Wildlife Service |
| USCG | United States Coast Guard |

6. Additional sources of information

6.1 Internet location of additional information/report

www.epaosc.org/PDCEnergyBeverly

6.2 Reporting Schedule

No further POLREPs are anticipated.

7. Situational Reference Materials

No information available at this time.

POLREP #8 Last Updated 9/3/2014