

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Mid-Valley Pipeline Crude Oil Release - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #4
Progress
Mid-Valley Pipeline Crude Oil Release
E14510
Cincinnati, OH
Latitude: 39.2598727 Longitude: -84.6656010

To:
From: Steven Renninger, OSC
Date: 3/24/2014
Reporting Period: March 22-24, 2014

1. Introduction

1.1 Background

Site Number:	Z5MZ	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	OPA	Response Type:	Emergency
Response Lead:	PRP	Incident Category:	
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	3/18/2014	Start Date:	3/18/2014
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	OEPA
FPN#:	E14510	Reimbursable Account #:	

1.1.1 Incident Category

Emergency Response

1.1.2 Site Description

The Mid-Valley Pipeline carrying crude oil from Hebron, Kentucky to Lima, Ohio released product into an un-named stream leading into a roadside pond along East River Road and adjacent to the Great Miami River. The crude oil was contained within the pond. No observable product or sheen has been identified on the Great Miami River, which is located approximately 1,500 feet west of the pond. The pipeline is operated by Sunoco Pipeline LP and was shut down at 2232 hours on March 17th. The pipeline was installed in 1950. It is estimated that approximately 240 barrels (approximately 10,000 gallons) were released to the stream and pond. Approximately 1 mile of un-named stream is impacted with crude oil. Sunoco revised the spill amount to potentially 500 barrels (21,000 gallons) on March 21, 2014.

1.1.2.1 Location

The majority of the Site is located within the Oak Glen Nature Preserve on East Miami River Road in Cincinnati, Ohio. The un-named stream runs down a steep hillside into a pond located across the street from a stone quarry located at 8953 East Miami River Road. A command post has been established on East Miami River Road (Dravo Park) north of the pond. Sunoco Logistics/Mid-Valley has established access with private land owners. Nature preserve representatives (Great Parks of Hamilton County) were onsite 3/18/14 and in Unified Command.

1.1.2.2 Description of Threat

There is a confirmed release of approximately 20,000 gallons of crude oil into a stream which discharges into a pond within the Oak Glen Nature Preserve. Due to the quantity of crude oil released and proximity to the Great Miami River, there is a threat of a release to the Great Miami River.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

On March 18, EPA OSC Renninger, Ohio EPA OSC Dale Farmer, Ohio EPA OSC Bill Lohner, EPA's START contractor, and Sunoco Logistics/Mid-Valley walked about a mile from the pond and along the stream and ending at the pipeline discharge point, which is located where the Mid-Valley pipeline crossed the stream.

Visible crude oil was observed on the surface of the pond and along the approximately 1-mile stretch of stream bed. The terrain around the impacted stream is heavily wooded and steep. Pockets of crude oil was observed within the stream.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

A **Unified Command** has been established with EPA, Ohio EPA, Great Parks of Hamilton County, Colerain Township and the responsible party (RP) Sunoco Logistics/Mid-Valley. The RP has contracted with SWS Environmental Services, Clean Harbors, Environmental Restoration, Dillon, and McCutcheon to conduct product recovery and clean-up operations. OTIS and DOT were on site to assess the damaged pipeline. In addition, Hull & Associates (Hull) have been contracted as its environmental consultant. Hull is conducting air monitoring and is leading environmental assessment efforts. A command post has been established in the parking lot of Dravo Park, north of the pond. Coordinating agencies can be found in Section 3.

The following 4 working zones have been established:

- Zone 1 - This is the area where the pipeline breach occurred.
- Zone 2 - This the 1-mile stream section impacted by crude oil from the pipeline break (Zone 1) to the pond (Zone 3). Zone 2 is divided in Zones 2A, 2B and 2C.
- Zone 3 - This is the pond where the crude oil was discharged into.
- Zone 4 - This is the area west of the pond (Zone 3) towards the Great Miami River.

2.1.2 Response Actions to Date

For response actions on March 18, 2014, see POLREP 1.

For response actions on March 19 and 20, 2014, see POLREP 2.

For response actions on March 21, see POLREP 3.

March 22, 2014

Unified Command and General Staff briefings conducted at 0800 and 1700 hours. IMT conducted the Planning Cycle and generated an IAP.

Zone 1

The pipeline repair and restart plan was in progress. The PLIDCO clamp "temporary" repair was installed on the damaged section of the pipe. The "temporary" repair was welded in place and the pipe was retested. Soil samples were collected for analysis from the excavation at the pipeline release location.

Access road construction from Tree Top Lane to support the future permanent repair activities on the damaged pipe was in progress.

Zone 2

The construction of the underflow dam in the stream was completed and skimmer recovery operations continued. The location of the underflow dam is upstream of the pond, and is located in Zone 2C.

A 30-minute test flushing operation of the stream was conducted in Zones 2B and 2C using water from the pond. The flushing operation is intending to remove gross crude oil contamination where it can be collected prior to the underflow dam. SCAT team overseeing Operations personnel on oily debris removal in the stream to increase flow of the oil.

Bench tests were conducted for thermal treatment of oil-stained rocks in the stream bed and a pilot test plan with air sample analysis was prepared for thermal remediation of the residual oil along the pond shoreline.

Zone 3

The removal of bulk oil floating on the surface of the pond was completed, with manual recovery of residual oil on-going. Vacuum trucks and skimmers were transferred to Zone 2C (location of the underflow dam) for oil recovery operations.

Hull began drilling operations to install 9 groundwater monitoring wells around the pond. One well was completed. Ohio EPA reviewed and approved the groundwater well installation plan.

Hull is collecting surface water samples for laboratory analysis from two locations (north and south ends) on the pond on a daily basis. Hull also collecting a water sample of the discharge water from the underflow dam outlet located in Zone 2C.

The Wildlife/Sensitive Species Plan for managing wildlife encountered continued to evolve with input from experts. Cardno ENTRIX and Tri-State Bird & Rescue implementing plan.

EPA START contractor has mobilized to the site to assist with assessment, documentation, sampling and monitoring activities. EPA START overseeing oil collection activities at the pond and the RPs assessment of the pipeline break.

RECOVERY UPDATE

Total liquid recovery volume to date was 25,132 gallons of oil and water mixture.

March 23, 2014

Unified Command and General Staff briefings conducted at 0930 and 1600 hours. IMT conducted a Planning Cycle and generated an IAP.

Zone 1

The pipeline has been repaired and the line has been restarted per DOT. The RPs will submit a permanent repair plan in the near future to DOT.

Zone 2

Full-scale flushing along the stream in Zone 2 was initiated (300 gal/min) using pond water pumped overland to Zone 1. Operation reporting that the water flushing was performing as planned. Pockets of oil that are in the stream are being flushed and pushed where it can eventually be collected before the underflow dam. Flushing is planned to continue into the next operational period with ongoing assessment of effectiveness.

Skimming of oil from the stream continued above the underflow dam in Zone 2C during the stream flushing operations.

SCAT team overseeing Operations personnel on oily debris removal in the stream to increase flow of the oil. SCAT recommendations incorporated into the IAP.

Zone 3

Manual removal of residual oil and sheen continued at the pond. An aeration system plan for implementation of air-sparging will be implemented in the pond in the next operational period.

The pilot test for thermal remediation of oiled-vegetation along the pond shoreline will be implemented in the next operational period.

Hull is collecting surface water samples for laboratory analysis from two locations on the pond on a daily basis. Hull also collecting a water sample of the discharge water from the underflow dam outlet located in Zone 2C.

The Wildlife/Sensitive Species Plan for managing wildlife encountered continued to evolve with input from experts. Cardno ENTRIX implementing the Salamander Habit and Survey Action Plan.

Zone 4

Daily inspections continue with no oil or sheen observed.

EPA START contractor has mobilized to the site to assist with assessment, documentation, sampling and monitoring activities. EPA START overseeing oil collection activities at the pond and the RPs assessment of the pipeline break.

RECOVERY UPDATE

Total liquid recovery is 31,600 gallons (oil and water).

Other Information

No wastes have been transported off-site. RPs finalized a waste disposal plan.

A post-emergency response transition plan is in progress.

The security badging process has been fully implemented. All personnel are required to have a badge and as they enter the site, the badges are scanned.

March 24, 2014

Unified Command and General Staff briefings conducted at 0930 and 1600 hours. IMT conducted a Planning Cycle and generated an IAP.

Zone 1

The pipeline has been repaired and the line has been restarted per DOT. The RPs will submit a permanent repair plan in the near future to DOT.

Oil-contaminated soils were excavated and staged into rolloff boxes, pending final approval for off-site disposal.

Access road from Tree Top Lane was completed.

Zone 2

Full-scale flushing along the stream in Zone 2 continued (300 gal/min) using pond water pumped overland to Zone 1. Operation reporting that the water flushing is performing as planned. Pockets of oil that are in the stream are being flushed and pushed where it can eventually be collected before the underflow dam. Flushing is planned to continue into the next operational period with ongoing assessment of effectiveness.

Skimming of oil from the stream continued above the underflow dam in Zone 2C during the stream flushing operations.

SCAT team overseeing Operations personnel on oily debris removal in the stream to increase flow of the oil. SCAT recommendations incorporated into the IAP.

Zone 3

Manual removal of residual oil and sheen continued at the pond. An aeration system plan for implementation of air-sparging was implemented. One aerator was installed in the pond, with another two aerators to be installed by the end of this operational period.

The pilot test for thermal remediation of oiled-vegetation along the pond shoreline was completed and approved by the Unified Command. Full scale thermal treatment of the oil rim around the pond will begin this operational period. Hull to conduct air monitoring during thermal treatment operations.

Hull is collecting surface water samples for laboratory analysis from two locations on the pond on a daily basis. Hull also collecting a water sample of the discharge water from the underflow dam outlet located in Zone 2C.

The Wildlife/Sensitive Species Plan for managing wildlife encountered continued to evolve with input from experts. Cardno ENTRIX implementing the Salamander Habit and Survey Action Plan.

Zone 4

Daily inspections continue with no oil or sheen observed.

EPA START contractor has mobilized to the site to assist with assessment, documentation, sampling and monitoring activities. EPA START overseeing oil collection activities at the pond and the RPs assessment of the pipeline break.

RECOVERY UPDATE

Total liquid recovery is 35,326 gallons (oil and water), with an estimated 17,129 gallons of crude oil recovered to date.

Other Information

No wastes have been transported off-site. RPs finalized a waste disposal plan.

A post-emergency response transition plan is in progress.

The security badging process has been fully implemented. All personnel are required to have a badge and as they enter the site, the badges are scanned.

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

Sunoco Pipeline LP and Mid-Valley Pipeline are the responsible parties. A Notice of Federal Interest was issued by OSC Renninger to Sunoco Pipeline LP representatives at 0800hrs on 3/18/2014.

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

- EPA will continue oversight of response activities;
- SCAT recommendations for Ops
- EPA START contractor will continue documentation, assessment, sampling and monitoring activities.

RPs

- Continue aeration (air sparging) operations in the pond. Three aerators to be utilized.
- Continue thermal treatment operations on ring of oil staining along the pond shoreline
- Continue manual cleanup operations on the Zone 3 pond and skimming/vacuum operations at the underflow dam (Zone 2C)
- Continue stream flushing and oil-contaminated debris cleanup in the stream (Zone 2) per SCAT recommendations
- Continue installation of groundwater monitoring wells and collect groundwater samples. Wells to be installed by Saturday, March 29, 2014
- Continue IMT Planning Cycle and IAP development.
- Continue perimeter air monitoring
- Initiate disposal of site-related waste, as necessary
- RPs to finalize plan for long-term housing for the command post

2.2.1.1 Planned Response Activities

See Section 2.2.1.

2.2.1.2 Next Steps

See Section 2.2.1.

2.2.2 Issues

- A News (media) briefing conducted, as necessary.

Wildlife Recovery Efforts

Wildlife Received at the Oiled Wildlife Rehab Facility:

5 streamline salamanders were oiled and 4 of them cleaned
1 two-lined salamander was transferred to the facility where it eventually died
14 crawfish were received, 12 of which were oiled and 1 died.
1 spring peeper frog was received and released

Total Wildlife Received Dead

Unknown species of crawfish - 8
Two-lined salamander - 1

Green frog - 2

2.3 Logistics Section

EPA has mobilized a mobile command vehicle and two ATVs to the command center location.

Hamilton County provided three tents for response meetings/support.

The Incident Command Post is in Dravo Park on 9225 East River Road.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

The RPs have a Safety Officer on site. A daily Health & Safety Plan is being submitted with the IAP.

2.5.2 Liaison Officer

2.5.3 Information Officer

See Section 2.5.2. Media Briefings are conducted, as necessary. Colerain Township Steve Conn is the PIO.

3. Participating Entities

3.1 Unified Command

Unified Command has been established with EPA, Ohio EPA, Great Parks of Hamilton County, Colerain Township and Sunoco Logistics/Mid-Valley. Sunoco Logistics has mobilized an Incident Management Team.

3.2 Cooperating Agencies

Hamilton County Department of Environmental Services
Hamilton County EMA
Hamilton County Public Health
Groundwater Consortium
Colerain Township FD
US Fish & Wildlife Service
U.S. Department of Transportation
Ohio Department of Natural Resources - Division of Wildlife
Hamilton County Parks

U.S. DOT PHMSA Office of Pipeline Safety has been onsite and is investigating the cause of the release.

4. Personnel On Site

US EPA - 4
START - 2
Ohio EPA - 8
RP representatives and contractors - 125

5. Definition of Terms

EPA - Environmental Protection Agency (U.S. EPA Region 5)
RP - Responsible Party
SCAT - Shoreline Cleanup Assessment Technique
START - Superfund Technical Assessment and Response Team
PIO - Public Information Officer

6. Additional sources of information

6.1 Internet location of additional information/report

<http://www.epaossc.org/midvalleycrudeoilrelease>

6.2 Reporting Schedule

The next POLREP will be issued as needed.

7. Situational Reference Materials

No information available at this time.