

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 #5
Progress
Mid-Valley Pipeline Crude Oil Release
E14510
Cincinnati, OH
Latitude: 39.2598727 Longitude: -84.6656010

To:
From: Steven Renninger, OSC
Date: 3/28/2014
Reporting Period: March 25 through 28, 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 Miami 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 (restarted on March 23). The 20-inch pipeline was installed in 1950. It was estimated that approximately 240 barrels (approximately 10,000 gallons) were released to the stream and pond. Approximately 1 mile of stream was 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 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 obtained signed access agreements with Great Parks of Hamilton County and numerous private land owners. Oak Glen Nature Preserve representatives (Great Parks of Hamilton County) were onsite 3/18/14 and are part of Unified Command.

1.1.2.2 Description of Threat

There is a confirmed release of approximately 21,000 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 crosses 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. Heavy pockets of crude oil was observed at numerous locations 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) has 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 influent of the underflow dam. Zone 2 is divided into 7 segments (Zones 2A-01, 2A-02, 2B-01, 2B-02, 2C-01, 2C-02 and 2C-03).
- Zone 3 - Begins at the outflow of the underflow dam and includes the pond where the crude oil was initially discharged into.
- Zone 4 - This is the area west of the pond (Zone 3) towards the Great Miami River.

A map showing the work zones has been uploaded into the Documents Section of the website.

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.

For response actions on March 22-24, see POLREP 4.

March 25 and 26, 2014

IMT conducted the Planning Cycle for a 24-hour operational period and generated an IAP for each day.

Zone 1

The pipeline has been repaired and the line has been restarted per DOT.

Oil-contaminated soil was excavated from around the pipeline and placed into rolloff boxes. A post excavation soil sampling plan was developed and implemented. Post excavation soil sampling data showed BTEX concentrations less than site action levels.

An access road was constructed from Tree Top Lane to the top of the hill which leads down to the pipeline that was temporarily repaired.

Zone 2

Full-scale flushing along the stream in Zone 2 continued (300 gal/min) using pond water pumped overland to Zone 1. SCAT personnel 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 using skimmers and vacuum trucks at the underflow dam.

SCAT team recommendations being implemented by Operations 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. Oil-contaminated debris continued to be removed from the pond. All skimming operations completed.

Thermal treatment was initiated on the oily residue ring around the shoreline of the pond. The Colerain Fire Department provided oversight of all thermal treatment operations.

Hull collected surface water samples for laboratory analysis from two locations on the pond on a daily basis. Hull also collected a water sample from the discharge water from the underflow dam outlet.

Air sparging operations continued, as three aerators were placed and operating in the pond.

Zone 4

Daily inspections continue with no oil or sheen observed.

Other Information

EPA START contractor assisting with assessment, documentation, sampling and monitoring activities.

No wastes have been transported off-site. UC approved the RP waste disposal plan. RP will begin scheduling waste to be transported for off-site disposal.

An air monitoring plan continued to be implemented by Hull. Hull is monitoring 15 air sampling locations. No issues with elevated VOCs are being observed.

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. Tri-State Bird & Rescue on site to assess and respond to animals discovered which are impacted. Five additional salamander traps were installed.

RP investigating long-term office space and drafting a transition plan. RP began the development of an equipment decontamination plan.

RP estimated 168 people on site.

March 27, 2014

IMT conducted the Planning Cycle for a 24-hour operational period and generated an IAP.

Zone 1

Orange fencing was placed around the "temporarily" repaired pipeline for added security.

Zone 2

SCAT recommendation to suspend full-scale flushing along the stream in Zone 2. SCAT assessing streamline Zone 2A-01. Operations focusing cleanup efforts in Zone 2A-01. Per the Zone 2 Exit Plan, SCAT and Ohio EPA will be conducting the inspection of the stream once Operations feels a segment of stream meets Zone 2 criteria and, if necessary, approval for release.

SCAT team recommendations being implemented 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.

Hull collected surface water samples for laboratory analysis from two locations on the pond on a daily basis. Hull also collected a water sample from the discharge water from the underflow dam outlet.

Air sparging operations continued, as three aerators were placed and operating into the pond.

Zone 4

Daily inspections continue with no oil or sheen observed.

RECOVERY UPDATE

As of 1500 hours on 3/27/14, total liquid recovery was 38,044 gallons (oil and water), of which 17,487 gallons was oil.

Other Information

EPA START contractor has mobilized to the site to assist with assessment, documentation, sampling and monitoring activities.

Hull using roto sonic drilling to install groundwater monitoring wells around the site. Four of 9 wells have been installed.

Environmental stated that 17 rolloff boxes are awaiting off-site disposal. One rolloff box containing oil-contaminated sorbents and PPE was shipped for off-site disposal to the Franklin County Sanitary Landfill, located in Grove City, Ohio.

An air monitoring plan continued to be implemented. 14 air sampling locations being monitored. No issues with elevated VOCs being observed.

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. Tri-State Bird & Rescue on site to assess and respond to any animals discovered which are impacted. Thirteen crawfish were released into Shaker Trace creek.

Logistics signed a lease for long-term office space at a facility approximately 5 miles from the current command post. A transition plan will be developed. The current command post tents will be cleaned out by Friday April 4th and will be demobilized on Saturday April 5th.

Safety developed procedures in the event lightning or heavy winds are encountered. Safety developed a Traffic Control Plan.

Ohio EPA provided a salamander expert to oversee the recovery and release in the environment any captured salamanders.

This is the last day for scheduled media briefings.

RP estimated 148 people are on site.

March 28, 2014 (as of 1100 hours)

IMT conducted the Planning Cycle for a 72-hour operational period and generated an IAP.

Zone 1

Operations to install a silt fence around the pipeline.

Zone 2

Operations aggressively using its resources to remove oil-contaminated leaves, brush and other vegetation from the stream. SCAT inspected reaches of the stream, as part of the Zone 2 Exit Plan. Additional SCAT recommendations are being implemented including contaminated debris removal and exposing contaminated sediment for additional flushing operations.

A modified flushing operation will be conducted over the next few days. A combination of high flow and low flow flushing will be determined by SCAT and Operations.

Thermal treatment operations to be conducted, as directed by SCAT. Thermal treatment operations to potentially be focused on oil-stained rocks.

Zone 3

Manual removal of residual oil and sheen continued at the pond. Pockets of oil being removed using absorbent pads.

Hull collected surface water samples for laboratory analysis from two locations on the pond on a daily basis. Hull also collected a water sample from the discharge water from the underflow dam outlet.

Air sparging operations continued, as three aerators were placed and operating into the pond.

Zone 4

Daily inspections continue with no oil or sheen observed.

RECOVERY UPDATE

As of 0300 hours on 3/28/14, total liquid recovery was 39,971 gallons (oil and water), of which 17,737 gallons was oil.

Other Information

EPA START contractor has mobilized to the site to assist with assessment, documentation, sampling and monitoring activities.

Hull using roto sonic drilling to install groundwater monitoring wells around the site. Four of 9 wells have been installed. All wells scheduled to be installed by Saturday, March 29th.

Environmental Unit updated Unified Command that waste is being shipped off site today and the goal is to remove most if not all of the waste by the end of the weekend. Rolloff boxes containing oil-contaminated sorbents and PPE and rolloff boxes containing oil-contaminated soil are awaiting off-site disposal to the Franklin County Sanitary Landfill, located in Grove City, Ohio. Recovered oil will be pumped into tanker trucks and shipped to Sunoco's Hebron, KY facility for re-use.

An air monitoring plan continued to be implemented. 11 air sampling locations being monitored. No issues with elevated VOCs being observed.

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. Tri-State Bird & Rescue on site to assess and respond to any animals discovered which are impacted. Thirteen crawfish released back into the environment.

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>
Oil-contaminated sorbents, debris & PPE	Solid	3 rolloff boxes		Landfill	Franklin County Sanitary Landfill Grove City, Ohio
Oil-contaminated soil	Solid	1 rolloff box		Landfill	Ohio Soil Recycling Columbus, Ohio

2.2 Planning Section

2.2.1 Anticipated Activities

EPA

- EPA will continue oversight of response activities;
- EPA to continue being a member of Unified Command
- SCAT to continue recommendations for Operations in Zone 2
- EPA START contractor will continue documentation, assessment, sampling and monitoring activities.

RP

- RP to move to a 72-hour operational period and IAP development.
- Operations to remove and demobilize orange directional boom placed in Zone 4
- Continue aeration (air sparging) operations in the pond. Three aerators are being utilized.
- Continue thermal treatment operations on residue oil ring around the pond, within mud flats at the southern

end of the pond and the stream section from the outflow of the underflow dam to the pond, as necessary.

- Continue skimming/vacuum operations at the underflow dam (Zone 2C)
- Continue perimeter air monitoring
- Continue disposal of site-related waste
- Complete transition to new office space

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

Daily Meeting Schedule

0700 - Operations Briefing
0900 - IC/UC Objectives Meeting
1000 - Command & General Staff Meeting
1100 - Media Briefing
1330 - Tactics Meeting
1600 - Planning Meeting
1800 - IAP Preparation & Approval
1900 - Operations Briefing

Security

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.

Wildlife Recovery Efforts

46 total wildlife captured
23 wildlife required cleaning
14 wildlife have been released
12 wildlife were found dead
2 wildlife were euthanized
6 wildlife died while in the rehabilitation facility

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

Media Briefings are conducted, as necessary. Colerain Township Steve Conn is the PIO. The final media briefing was scheduled on March 27, 2014. PIO responsibilities will transfer to Great Parks of Hamilton County on March 28.

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 - 148+

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.epaosc.org/midvalleycrudeoilrelease>

6.2 Reporting Schedule

The next POLREP will be issued as needed.

7. Situational Reference Materials

No information available at this time.