

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Buckeye Pipeline - Kankakee Gasoline Spill - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #5
Progress
Buckeye Pipeline - Kankakee Gasoline Spill

Kankakee, IL
Latitude: 41.1435080 Longitude: -87.9022360

To:
From: Ramon Mendoza, OSC
Date: 3/18/2014
Reporting Period: 3/18/2014 to 3/19/2014

1. Introduction

1.1 Background

Site Number:	Z5MX	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:	3/14/2014	Start Date:	3/14/2014
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	03/14/2014
FPN#:	E14508	Reimbursable Account #:	

1.1.1 Incident Category

Petroleum release (suspected gasoline and gasoline/diesel transmix) in drainage ditch and pasture near Buckeye pipelines in Kankakee, IL

1.1.2 Site Description

The two Buckeye pipelines where the petroleum sheen was encountered are located on IL-113 between Indian Trail Road and Stone Creek Road (1500 W Road) in Kankakee, IL. The site is in a mixed rural and residential area and is located approximately 1500 feet south of the Kankakee River. The drainage ditch where the sheen was located is on the south side of IL-113 and flows west towards a culvert which runs north under IL-113 and toward the Kankakee River.

1.1.2.1 Location

IL-113 and Indian Trail Road, Kankakee, IL

1.1.2.2 Description of Threat

There is a threat to the Kankakee River and groundwater from a gasoline release. Residents located east of the site are on private wells. The drainage ditch flows to the Kankakee River approximately 1500 feet north of the site. Gasoline / product was observed at the surface in a residential yard to the North of the release point. The pipeline crosses under the Kankakee River which is located approximately 1200 feet from the yard. The pipeline and drainage ditch may provide a conduit for gasoline to travel to the navigable waterway.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Buckeye is excavating near their pipelines to see if there is indeed a pipeline break and what impacts to soil and groundwater occurred.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

On the morning of March 14, 2014, Buckeye Pipeline reported a release of gasoline from the vicinity of two

8-inch pipelines (162 and 163) near the intersection of State Route 113 and Indian Trail Road, Kankakee, Kankakee County, Illinois 60691. One pipeline was carrying gasoline and the other a transmix of gasoline and diesel. Both pipelines are leaking. The exact locations of the leaks along the pipeline are not identified yet, however they are believed to be within the casing underneath State Route 113. The release was initially estimated at 500 gallons but is now estimated to be between 1,000 and 1,500 gallons. There is a drainage ditch located west of the suspected release location which leads to the Kankakee River which is located approximately 0.5 miles to the North. A residential community is also located approximately 0.25 miles to the North. There are no reports of impacts to the Kankakee River.

2.1.2 Response Actions to Date

Response actions previous to 3/18/14 0700 are documented in previous Polreps 1 thru 4.

The following response actions occurred during the day time operations on 3/18/14 from 0700 to 1900:

- Buckeye Pipeline contractors onsite included Future Environmental; SET Environmental; CRA; Antea Group and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation and T&D operations. CRA conducted air monitoring and sampling activities. Antea Group conducted soil and residential drinking water sampling.
- Buckeye contractors continued removing impacted water from the suspected source area, interceptor trench, ponded area, and at the ditch near 1726 Indian trail road.
- Replacement pipeline sections were X-rayed and received hydrostatic testing.
- Buckeye contractors worked to extend pipeline excavation toward the south approximately 60 feet in order to fit the longer replacement pipelines into the excavation.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in the spill areas and the residential area. A total of eight AreaRAEs were operating. In addition, MultiRAEs and Benzene UltraRAEs are used near the excavation and residential area. START monitored their live AreaRAE data periodically throughout day.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, and documented site activities. VOC readings range from 0-5 ppm in the excavation area and non-detects in the residential area. Benzene readings were non-detect in the excavation and residential. Carbon Monoxide was non-detect in the residential and excavation area.
- Antea Group collected some material from pipeline casing and 4 soil samples of soil from around pipe sections under roadway for investigation.
- Antea Group conducted six soil borings using hand auger. The soil borings were then screened with a PID. The section with the highest PID reading had a soil sample collected from there. This brings total soil boring locations up to 26. Samples will be submitted to a lab and analyzed for VOCs, PAHs, and TPH as DRO and GRO. Weston provided oversight of Antea Group's soil sampling activities.
- Antea Group continued collecting drinking water samples from residential homes.
- EPA OSC participated in the following meetings : Unified Command, Command & General Staff, Tactics, and Planning Meetings and provided input in Objectives, Planning, and Tactics as necessary.
- EPA OSC reviewed and approved Incident Action Plan for the next operating period.
- EPA OSC coordinating with Illinois EPA OSC and Kankakee Health Department.
- EPA OSC Met with USCG Safety Personnel and both parties agreed that adequate safety personnel have been provided by Buckeye and that the safety mission of the USCG has been fulfilled. USCG demobed from the Site at about 1530 hours.

The following response actions occurred during night operations from 3/18/14 1700 to 3/19/14 0700:

- Buckeye Pipeline contractors onsite included Future Environmental; CRA; Antea Group and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation, pipe cutting and T&D operations. CRA conducted air monitoring and sampling activities.
- Buckeye contractors continued removing impacted water from the excavation area, ponded area, and at the ditch near 1726 Indian trail road. Two soil trucks were hauled off Site.
- Buckeye contractors continued to extend excavation towards the south end of the pit to make room for new pipe.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in areas of the spill and the residential area. Eight AreaRAE units are stationed surrounding the Site. In addition, MultiRAEs and Benzene UltraRAEs are used near the source and residential area.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, and documented site activities. VOC readings range from 0-8 ppm in the excavation area and 0-0.25 ppm in the residential area. They also found and reported (to OSC) free product coming out of the surface soil north of the pipeline excavation in Zone 2.

The following response actions occurred during the day time operations on 3/19/14 from 0700 to 1900:

- Buckeye Pipeline contractors onsite included Future Environmental; SET Environmental; CRA; Antea Group and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation and T&D operations. CRA conducted air monitoring and sampling activities. Antea Group conducted soil and residential drinking water sampling.
- Buckeye contractors continued removing impacted water from the suspected source area, interceptor trench, ponded area, and at the ditch near 1726 Indian trail road.
- Heavy morning rains brought a of oil sheen to soil surface, including free product flowing from area 30 feet north of excavation north wall . Product is surfacing and flowing in 0-6" scrape that was conducted the evening of 3/17. At the federal OSC direction, Buckeye crews dug interceptor pit, which filled will transmix free product. This product is being recovered from this pit.
- Buckeye contractors continued to extend pipeline excavation toward the south approximately 60 feet in order to fit the longer replacement pipelines into the excavation.

- Gold pipe (West pipe) was cut, drained, and removed from excavation site. It was set on IL-113 West of excavation site for field inspection tomorrow before being cleaned, cut, and sent to DNV's lab in Dublin, OH.
- New pipeline was placed in pit and connecting surfaces prepped for welding.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in the spill areas and the residential area. A total of eight AreaRAEs were operating. In addition, MultiRAEs and Benzene UltraRAEs are used near the excavation and residential area. START monitored their live AreaRAE data periodically throughout day.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, and documented site activities. VOC readings range from 0-5 ppm in the excavation area and non-detects in the residential area. Benzene readings were non-detect in the excavation and residential.
- Antea Group collected soil samples from sidewall of excavation. Samples will be submitted to a lab and analyzed for VOCs, PAHs, and TPH as DRO and GRO. EPA contractor Weston provided oversight of Antea Group's soil sampling activities and split 5 samples
- Antea Group continued collecting drinking water samples from residential homes.
- EPA OSC participated in the following meetings : Unified Command, Command & General Staff, Tactics, and Planning Meetings and provided input in Objectives, Planning, and Tactics as necessary.
- EPA OSC reviewed and approved the Incident Action Plan for the next operating period.
- EPA OSC coordinating with Illinois EPA OSC and Kankakee Health Department.
- OSC Thomas arrived at about 1500 hours and met with OSC Mendoza to transition Federal OSC duties. OSC Thomas will take over the federal OSC lead onsite on 3/20/14.

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

The responsible party, Buckeye Pipeline has deployed contractors to address the release. On March 14, 2014, OSC Atkociunas issued Buckeye Pipeline personnel a Notice of Federal Interest, which was signed.

2.1.4 Progress Metrics

Waste is being staged at Buckeye terminal. The contaminated soil is going to Waste Management Laraway Landfill in Joliet, IL. Contaminated water and free product waste is being shipped to Beaver oil and water/boom/PPE will go to Aaron oil in Alabama.

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
contaminated soil		1049 yd3			staged at Buckeye terminal
contaminated water		52,126 gal			staged in frac tanks at Buckeye terminal
skimmed free product		430 gal			staged in frac tanks at Buckeye terminal

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

Ensure the health and safety of responders and the public
 Expose pipeline underneath highway, cut out suspect pipeline length (approx 100 ft/pipeline)
 Construct, hydrostatic test, install, weld and test new length of pipeline
 Inspect suspect pipeline length at nearby Kankakee Terminal.
 Delineate extent of contamination via groundwater, soil, and residential well sampling
 Monitor the Kankakee River for possible impacts
 Excavate impacted soils
 Collect impacted water, soil, and petroleum
 Conduct monitoring and sampling, as necessary
 Conduct oversight of Buckeye Operations
 Document response activities.
 At the request of Kankakee Health Department USEPA Will conduct a 24 hour air sampling upwind and downwind of the Site using Summa Canisters to confirm the non-detects in the Community. Sampling will be conducted for VOCs.

2.2.1.2 Next Steps

Buckeye Partners and Kankakee County Health has released a press release/statement indicating drinking water areas of concern and identify areas that are safe for drinking and use. It can be viewed at www.kankakeeroute113release.com.

2.2.2 Issues

The site is contained and no release of oil to surface water (Kankakee River) has occurred.

2.3 Logistics Section

START is providing monitoring, documentation, and oversight support 24 hours/day. Buckeye Pipeline has mobilized vac trucks, excavation equipment, monitoring, and sampling equipment. The Incident Command Post is at the Hilton Garden Inn in Kankakee (455 Riverstone Parkway, Kankakee, IL 60901).

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

EPA and START are providing health and safety oversight.

2.5.2 Liaison Officer

2.5.3 Information Officer

Francisco Arcuate

3. Participating Entities

3.1 Unified Command

USEPA Region 5, Buckeye Pipeline, Kankakee County EMA, Illinois EPA

3.2 Cooperating Agencies

Limestone Fire Department
Kankakee County Health Department
Kankakee Police Department
United States Coast Guard
ATSDR

4. Personnel On Site

EPA 1 (second OSC arrived 3/19 at 1500 hrs)

START 3 (down to 2 as of 0900 on 3/19)

USCG - 1 (Demobed 3/18 at 1530 hrs)

Buckeye / Contractors 80

5. Definition of Terms

No information available at this time.

6. Additional sources of information

6.1 Internet location of additional information/report

www.epaossc.org/BuckeyeKankakeeGas

www.kankakeeroute113release.com - PRP Website

6.2 Reporting Schedule

POLREPS will be issued ongoing.

7. Situational Reference Materials

No information available at this time.