

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Bridger Pipeline Release - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region VIII

Subject: POLREP #11
Progress - Phase II Response Operations
Bridger Pipeline Release
Z8FM
Glendive, MT
Latitude: 47.0316670 Longitude: -104.7708330

To: David Ostrander, EPA

From: Paul Peronard, On-Scene Coordinator

Date: 2/26/2015

Reporting Period: February 20-26, 2015

1. Introduction

1.1 Background

Site Number:	Z8FM	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:	1/18/2015	Start Date:	1/18/2015
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:	E15804	Reimbursable Account #:	

1.1.1 Incident Category

Transportation-Related: Pipeline Petroleum Spill

1.1.2 Site Description

At approximately 1030 MST on Saturday, January 17, 2015, a Bridger Pipeline controller at the control room in Casper, Wyoming, noticed some abnormal pressure readings on their Poplar Pipeline near Glendive, Montana. The pipeline's pressure alarms sounded and the pipeline was shut down. Bridger Pipeline personnel in the field then attempted to confirm a discharge. They initially did not observe any oil nor sheen due to ice cover on the river and they were unable to determine what the problem was. A National Response Center (NRC) incident report (#1105930) was filed by Bridger Pipeline LLC (Bridger) at 1430 MST stating that there was a potential release of crude oil into the Yellowstone River. Bridger's aerial patrol plane ultimately confirmed a sheen on the Yellowstone River in open water approximately 3/4-mile downstream of the pipeline crossing and also near the Glendive municipal drinking water intake 6.5 river miles downstream. A second NRC incident report (#1105969) was filed at 1012 MST on Sunday, January, 18, 2015, confirming the spill. Based upon the second NRC report (#1105969), and communication with the Department of Transportation Pipeline and Hazardous Materials Safety Administration (DOT PHMSA), the Environmental Protection Agency (EPA) immediately mobilized a Federal On-Scene Coordinator (FOSC) and contractors to the scene.

The section of Bridger's Poplar Pipeline that was compromised is 12 inches in diameter and is located where the pipeline crosses the Yellowstone River. There are two block valves on either side of the river that are spaced approximately 6,800 feet apart. That section of the pipeline holds approximately 900 barrels of oil and an estimated 300 barrels of oil, determined by pipeline metering, were reportedly discharged. Thus the quantity of crude oil released has been estimated at between 300 barrels and 1,200 barrels. The product in the pipeline at the time of the release was primarily Bakken Crude.

1.1.2.1 Location

The section of pipeline where the release occurred crosses the Yellowstone River near 47.031667 latitude and -104.770833 longitude. This is approximately 6.25 river miles upstream of Glendive, Montana, in Dawson County.

1.1.2.2 Description of Threat

Crude oil released into the environment threatens downstream drinking water suppliers and agricultural users and could impact fish and wildlife along the river. The downriver cities with water intakes are Glendive, Montana and Williston, North Dakota. There is also a downriver power plant with an intake in Sidney, Montana.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

The Yellowstone River is largely covered with ice. Crews have been continually monitoring the river corridor by air and by land for signs of sheen and residual oil. On Sunday, January 18, 2015, sheen was reported as far downstream as Crane, Montana (59 river miles downstream from the pipeline crossing). Recoverable oil is weeping to the surface at the location of the pipeline crossing and a small nonrecoverable amount of oil was discovered in a narrow crack on the ice approximately 3.5 river miles downstream of the pipeline crossing. No additional oil has been observed anywhere along the river. No impacts to wildlife have been observed.

By Monday, January 19, 2015, test results from the Glendive Water Treatment Plant (6.5 river miles downstream from the pipeline crossing) and odor complaints from residential water consumers indicated that the treatment plant had been contaminated by the oil spill.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The objectives of the response effort are to:

1. Provide for the safety of all response crews especially those working on the ice.
2. Monitor and protect the water quality of the Glendive Water Treatment Plant.
3. Identify and recover residual oil as appropriate.
4. Assess and address impacts to the environment as appropriate.

2.1.2 Response Actions to Date

Site Safety:

- Although field personnel found that ice conditions remained dynamic, ongoing assessments indicated that the ice was stable enough to support reconnaissance operations on the river. However, extremely cold weather and snow limited all operations on the ice.

Protection of Glendive's Drinking Water Supply:

- Glendive's Water Treatment Plant is operational. Two samples (one inlet and one outlet) were collected from the plant each morning at 0700. These samples were analyzed on-site by EPA's Mobile Laboratory and all samples were found to be non-detect for benzene and all other contaminants of concerns (volatile organic carbons). The samples were collected through February 25, 2015.
- The City of Glendive successfully installed equipment to independently monitor water quality at its treatment plant. The instrumentation was tested and fully operational on February 25, 2015. Installation of the equipment and testing was overseen by the City of Glendive's water treatment engineer. Based on the successful installation and with the concurrence of Glendive's water treatment engineer, UC decided to de-mobilize EPA's mobile lab on February 27, 2015. The lab will continue to be available in Denver to receive and analyze any additional samples collected.

Identify and Recover Residual Oil:

- The amount of sheen observed downstream from the spill has declined since the beginning of the response. No sheen was observed on the river this week.
- Minimal oil was recovered in the area immediately around the pipeline crossing, no other oil was observed in the river.
- The National Oceanic and Atmospheric Administration (NOAA) attempted to conduct a spill trajectory model and, given the available data, determined that the analytes detected were well below public health concerns and may in fact be near background levels. Furthermore, NOAA determined that the results indicated that there was no significant source for continued water contamination and that finding and modeling a discernible plume was highly unlikely.
- Oil recovery around the pipeline crossing remains difficult due to the ice on the river. The crossing is just downstream of two convergent river channels where the ice is highly fractured and irregular. It appears that some residual oil is trapped within the fractures and frazzle ice at this location. Crews continued to recover oil at this location as weather allowed.

Assess Environmental Impacts:

- No wildlife impacts have been observed nor reported up to date. Fish tissue samples were collected by Montana Fish, Wildlife and Parks (MT FWP) in support of the precautionary fish consumption advisory that was issued and results indicate that fish have been impacted. The fish consumption advisory will remain in place until further testing can be performed.

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

The pipeline is owned by Bridger Pipeline LLC.

2.1.4 Progress Metrics

Minimal oil was recovered during this operational period. 496 barrels of oil have been recovered from the

broken pipeline segment itself and approximately 55 barrels of oil have been recovered from the river at the location of the pipeline crossing.

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

The Unified Command has established overall objectives for the next phases of this response. Given that Phase I of the response dealt with the initial assessment and response activities, the next phases of the response are as follows:

Phase II: Interim Response Operations

1. Maintain Unified Command and coordinate Phase II response operations.
2. Keep the community informed and maintain media relations.
3. Characterize oil degradation in the Yellowstone River.
4. Monitor water quality at the Glendive Water Treatment Plant.
5. Monitor the Yellowstone River for water quality, residual oil and wildlife impacts.
6. Classify interim incidents and implement appropriate response strategies.

Phase III: Post-Melt Response Operations

1. Maintain Unified Command and coordinate Phase III response operations.
2. Keep the community informed and maintain media relations.
3. Monitor water quality conditions at the Glendive Water Treatment Plant. Collect confirmation samples as appropriate.
4. Monitor the Yellowstone River for water quality, residual oil and wildlife impacts. Collect confirmation samples as appropriate.
5. Assess sediment conditions in the Yellowstone River.
6. Conduct shoreline assessments.
7. Conduct additional assessment and response actions as required.

A detailed plan has been developed to meet these objectives and can be found at www.epaossc.org/BridgerPipeline.

2.2.1.2 Issues

- River conditions are hampering access to the spilled oil. There is extensive ice cover on the Yellowstone River, but the ice is not structurally sound enough in many locations to conduct response efforts.
- Current reconnaissance indicates that there is not much oil remaining in the operational theater. Given the unsafe working conditions and the limited oil recovered, the response is rapidly approaching the point of diminishing returns. This is especially relevant given the potential damage caused to the river system by the activity of the response crews and equipment.
- Much of the river corridor hosts nesting sites used by bald eagles, least terns, piping plovers and great blue herons that are protected, threatened or endangered. Eagles have already returned to the area and it is expected that they will begin nesting as early as February. Other significant species include the endangered pallid sturgeon and the spiny softshell turtle. The UC is weighing the impacts of the response (airboats, helicopters and vehicular and foot traffic) along the shoreline versus the limited oil recovery and limited product remaining.

2.3 Logistics Section

Not Applicable

2.4 Finance Section

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
PRFA - FWP	\$35,000.00	\$15,000.00	\$20,000.00	57.14%
PRFA - DEQ	\$80,000.00	\$50,000.00	\$30,000.00	37.50%
PRFA - USFWS	\$50,000.00	\$45,000.00	\$5,000.00	10.00%
USCG PST & NPFC	\$25,000.00	\$20,000.00	\$5,000.00	20.00%
Intramural Costs				
USEPA - Direct	\$74,048.00	\$55,000.00	\$19,048.00	25.72%
USEPA - InDirect	\$40,952.00	\$40,952.00	\$0.00	0.00%

Total Site Costs	\$305,000.00	\$225,952.00	\$79,048.00	25.92%
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* 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

2.5.1 Safety Officer

There are no incidents to reports.

2.5.2 Liaison Officer

EPA is coordinating response activities with local wildlife experts with the Montana Department of Fish, Game and Parks.

2.5.3 Information Officer

- The Public Information Officers are responding to requests for information/interviews from the press. A hotline has been set up for the public to get more information and is staffed by contract toxicologists: HOTLINE NUMBER - 888-959-8351 

3. Participating Entities

3.1 Unified Command

EPA
MT DEQ
Bridger Pipeline LLC

3.2 Cooperating Agencies

Dawson County DES
MT DES
MT DNRC
MT FW&P
USFWS
DOI
DOT - PHMSA
ATSDR
USCG NPFC

4. Personnel On Site

EPA OSC - 1
USCG (Strike Team) - 1
MT DEQ Staff - 1
Bridger Personnel - 5
Bridger Contractors - 9

5. Definition of Terms

START - Superfund Technical Assessment and Response Team
USCG - U.S. Coast Guard
PST - Pacific Strike Team
DOI - Department of Interior
DOT - PHMSA - Department of Transportation Pipeline and Hazardous Materials Safety Administration
NPFC - National Pollution Fund Center
ESAT - Environmental Services Assistance Team
ATSDR - Agency for Toxic Substances and Disease Registry
OSHA - Occupational Safety and Health Administration

6. Additional sources of information

6.1 Internet location of additional information/report

U.S. Environmental Protection Agency
<http://www2.epa.gov/region8/bridger-pipeline-release>

Montana Department of Environmental Quality
<http://www.deq.mt.gov/yellowstonespill2015.mcp>

Dawson County <http://www.dawsoncountymontana.org/>

Bridger Pipeline LLC Poplar Response
<http://www.poplarresponse.com>

CDC/ATSDR

http://www.atsdr.cdc.gov/yellowstone_river.html

6.2 Reporting Schedule

The next POLREP will be issued on Friday, March 20, 2015 or earlier if the situation warrants.

7. Situational Reference Materials

No information available at this time.

POLREP #11 Last Updated 3/24/2015