

General Environmental Incident Summary

Incident: 2176 **Date/Time Notice:** 1/17/2014 1000 **DEM Incident No:**
Responsible Party: Frac Shack International
Date Incident: 1/1/2014 **Time Incident:** 1800 **Duration:** 3 hours
County: McKenzie **Twp:** 153 **Rng:** 97 **Sec:** 35 **Qtr:** SE
Lat: 47.89086 **Long:** -103.04780 **Method:** Address matching
Location Description: 4391 115 Ave NW Watford City, ND 58854

Submitted By: Jim Wade **Affiliation:**
Address: 26229 TWP Road
City: Edmonton **State:** AB **Zip:**

Received By:

Contact Person: Jim Wade
26229 TWP Road
Acheson , AB T2X 5A4

Distance Nearest Occupied Building:

Type of Incident: Tank Leak

Description of Released Contaminant: Diesel fuel

Volume Spilled: 150.00 gallons **Ag Related:** No

EPA Extremely Hazardous Substance: Unknown **Reported to NRC:** Unknown

Cause of Incident:

An operator for Frac Shack, an on site fueling company for XTO Energy, was pulling a 750 gallon trailer off of a frac site, Rolfsrud State 13X-36F, on the evening of Thursday 1-1-2014 at approximately 6 PM local time. After driving over a cattle grate, the trailer he was pulling lost traction and skidded off the roadway. The truck and trailer were pulled backwards down the embankment into a ditch next to the creek bed. The truck remained upright, however, the trailer came off of the hitch and turned over in a ditch outside of the creek bed. It was estimated that approximately 150 gallons leaked out into the ditch over the three hours that it took to have the wrecker service out to right the trailer.

Risk Evaluation:

Removal of contaminated soil for the initial spill was completed on 1-6-2014. The waste container remained on site and continues to be staged at the site at the time of this report. .

of Fatalities: 0 **# of Injuries:** 0 **Affected Medium:** 03 - soil

Potential Environmental Impacts:

The temperature at the time of the incident and until the final cleaning on 1-6-14 were below 0 F. Between 1-6-14 and the present, the temperatures have gone above 40 F. With the contaminated soil having a mixture of snow and ice included, there is a concern of the material melting.

Action Taken or Planned:

Clean Harbors was notified immediately after the spill. They rounded up a crew with a vac truck and were at the scene in approximately three hours after the initial occurrence of the spill. It must be noted that the lead man for XTO Energy on the Rolfsrud site that night called in an additional company, Absorbent and Safety Solutions out of Alexander, ND. Clean Harbors and Absorbent Solutions

contained the spill that night and confirmed that our spill was localized in the ditch and did not release into the creek bed. The air temperatures that night were in the vicinity of -15 F. An extreme cold weather advisory followed the next three days, Friday through Saturday. The safety specialist for Clean Harbors did not allow their crews to work until the following Monday. On Monday, 1-6-2014, Clean Harbors was out to do the final sweep and took soil samples of the affected area. For the record, the temperatures at the spill site did not get above 0 F from the time of the initial spill until the final cleaning and soil samples were taken on the day of 1-6-14.

Wastes Disposal Location: Clean Harbors brought two large waste dumpsters onto the site for the removal of the affected soil. The dumpsters had been located at the spill site beginning on the evening of 1-6-14 and are currently still on location at the time of this report. It has been relayed to Frac Shack that the waste containers will remain on site until the analytics return from the lab and it is determined the location of the disposal.

Agencies Involved: McKenzie County Emergency Hazard Coordinator, Jerry Samuelson

Updates

Date: 1/7/2014 **Status:** Correspondence

Author: Roberts, Kris

Updated Volume:

Notes:

Roberts was contacted by Frac Shack to discuss the cleanup. Clean Harbors is the cleanup contractor. Followup is necessary.

Updated Volume:

Notes:

An employee for Frac Shack, an on-site fueling company for XTO Energy, was pulling a 750-gallon trailer off of a frack site, Rolfsrud State 13X-36F, on the evening of Thursday 1-1-2014. After driving over the cattle guard, the trailer he was pulling lost traction and skidded off the roadway. The truck and trailer were pulled backward down the embankment into a ditch next to the creek bed. The truck remained upright; however, the trailer came off of the hitch and turned over in a ditch outside of the creek bed. It was estimated that approximately 150 gallons leaked into the ditch during the three hours it took to get the wrecker service out to the site to right the trailer. Clean Harbors was notified immediately after the spill. They rounded up a crew with a vac truck and were at the scene within approximately three hours of the initial occurrence of the spill. The lead man for XTO Energy on the Rolfsrud site that night called in an additional company, Absorbent and Safety Solutions, out of Alexander, N.D. Clean Harbors and Absorbent Solutions contained the spill that night and confirmed that the spill was localized in the ditch and did not release into the creek bed. The air temperatures that night were very cold, and an extreme cold weather advisory followed the next three days. Work on the cleanup resumed on Monday, 1-6-2014; the cleanup was completed and soil samples were taken from the affected area. Clean Harbors brought two large waste dumpsters to the site for the removal of the affected soil, ice, and snow. The waste containers remained on site next to the creek area while waiting for analytics from the lab so a location for disposal could be determined. During the time waiting for the results, area temperatures warmed up. On the afternoon of 1-16-14, the area supervisor for Frac Shack was notified by the landowner that the warming temperatures had caused the contaminated snow and ice in the containers to melt and run out of the dumpsters and down the embankment toward the nearby creek bed. It has not been determined how much and for how long the runoff took place.

The area manager for Clean Harbors was contacted and informed of the leakage. A crew was sent to the site to contain the flow. The Clean Harbors crew stated that the chains on the dumpster had come loose, causing a breach in the seal of the container. The leakage has been contained, and we understand that the seal on the Clean Harbors waste containers has been addressed by Clean Harbors. The area was cleaned up for a second time.

I met with the landowners and area supervisor for Frac Shack International. The landowners were not happy with the cleanup company's handling of the project. The landowners questioned the cleanup company leaving the containers so near to water and not sealed properly. The second time, plastic was placed under the containers; however, it did not appear to the landowners that the plastic would prevent liquid from leaving the containers if melting occurred again. The containers were gone when I visited the site. The landowners also are not happy with the booms being placed in the creek, since the creek was frozen at the time. Now the booms have been covered under a layer of ice. The landowners had talked to XTO personnel and were told that the containers could have been placed on the well site where the fuel trailer was used. The Clean Harbors area supervisor was told to remove the booms and any impacted ice. A followup of this incident is need to verify that the booms and impacted ice have been removed.

Updated Volume:

Notes:

Email from Jim Wade.

Date: 2/11/2014 **Status:** Inspection

Author: Martin, Russell

Updated Volume:

Notes:

2/11/2014 at 15:07, on location. Frac site well pad in previous report appears to be the Rolfsrud State 14X-36F, according to personnel on site. Met with report contact and landowners at current incident site, approx. one mile west of well pad. Creek bed is iced over, with no running water present. Excavator on site has removed ice and absorbent booms from creek bed. Disposal container adjacent to creek bed has been removed since this morning, according to report contact. Pieces of boom still visible within broken ice; one piece has an odor. Sample taken of ice by piece of boom with odor. Landowners also requested sample of snow/ice on path to creek bed, due to concern that salt may have been used to reduce ice along path by cleanup company. This sample was taken as well. Cleanup company contact called and left message on answering machine. Will call again tomorrow to communicate need to clean up remaining pieces of absorbent boom.

Date: 3/10/2014 **Status:** Correspondence

Author: Martin, Russell

Updated Volume:

Notes:

Phone number listed as report contact is cleanup company's emergency number, not the direct number for the report contact. Number given by cleanup company's emergency team for Arnegard office of report contact leads to answering machine. While multiple messages have been left, none have been answered.

Date: 4/16/2014 **Status:** Inspection

Author: Martin, Russell

Updated Volume:

Notes:

4/16/2014 at 17:45, on location. Check up on site; more pieces (1- to 2-inch size) of absorbent boom apparent next to creek due to ice melting away. Staining in an ~2- x 10-foot area, visible on soil and vegetation where waste container was located near creek. Tested access path to location where previous samples were taken, since ground is no longer frozen. Soil measurements now show conductivity readings below action levels.

Date: 4/30/2014 **Status:** Correspondence

Author: Martin, Russell

Updated Volume:

Notes:

Phone call with responsible party and landowner about issues still present. Responsible party will contact cleanup company about concerns.

Updated Volume:

Notes:

I arrived at the site at 8:15 a.m. The weather is light snow, 32°F, with the wind from the west at 30 mph. Area where containers were sitting has grown back. Small area near creek had some vegetation; this area looked grazed. The rest of creek looked good with tall vegetation. Power pole placed in this area. No further followup needed.