

General Environmental Incident Summary

Incident: 801 **Date/Time Notice:** 11/13/2005 1030 **DEM Incident No:**
Responsible Party: American Crystal Sugar Company
Date Incident: 11/13/2005 **Time Incident:** 0630 **Duration:** 8 hours
County: Pembina **Twp:** 159 **Rng:** 51 **Sec:** 13 **Qtr:** SW SW NE
Lat: 48.59272 **Long:** -97.15803 **Method:** Derived from TRS
Location Description: 8152 County Highway 44 North, Drayton, ND; along the Red River just east of the condenser pond (ponds are in Section 13)

Submitted By: Ron Koester **Affiliation:**

Address:

City: **State:** **Zip:**

Received By: Bill Gunnerson

Contact Person: Ron Koester
8152 County Highway 44 North
PO Box 190
Drayton, ND 58225-0190

Distance Nearest Occupied Building: 5000 Feet

Type of Incident: pipeline leak

Description of Released Contaminant: condenser pond water

Volume Spilled: 80000.00 gallons **Ag Related:** No

EPA Extremely Hazardous Substance: No **Reported to NRC:** Yes

Cause of Incident:

A landslide on the bank of the Red River caused the pumphouse to drastically shift, resulting in a break of the condenser water pipeline at the river's edge. The 20-inch pipeline is about 5,000 feet long, and at the time of the break at the pumphouse, it contained about 80,000 gallons of condenser pond water.

Risk Evaluation:

no immediate risk

of Fatalities: 0 **# of Injuries:** 0 **Affected Medium:** 02 - water

Potential Environmental Impacts:

The condenser pond water had a COD of about 400, a BOD of about 300, and conductivity of about 1850 microSiemens. Although the spill is thought to have occurred about 6:30 am, the pipeline was still discharging about 10 to 15 gallons per minute at 2:00 pm. The primary water quality impact would be oxygen demand on the Red River.

Action Taken or Planned:

It was not possible to contain any of the spill even after it was noticed because of the precarious conditions at the landslide site. After consulting with Mike Ell of the Surface Water Program, we requested that ACS monitor the river about 16.7 miles downstream of the spill on the ND 5 bridge at Joliette as soon as possible to gauge the spill's impact. The Red River discharge at Drayton was about 3,000 cfs on 11/13/2005, which correlates to a stream velocity of about 1 foot per second,

based on historical USGS velocity measurements. Using the distance and velocity estimates, the leading edge of spill should reach the Joliette bridge about 7 am 11/14/2005. Ron Koester of ACS has arranged to have field personnel monitor and sample the river beginning about 6 PM 11/13 and continue through the night, although as of 4:30 pm, ACS would be using only a conductivity meter because they did not have a DO meter. We offered the use of our DO meter from the Fargo field office, and efforts continued for ACS to obtain a DO meter for field monitoring. ACS will collect lab samples for COD analysis. The city of Pembina formerly used the Red River for source water, but they were not notified of the spill because they are now a 100% consecutive user of North Valley WD - System II. The spill was reported to Manitoba Conservation as a courtesy, and they will receive an e-mail copy of this report.

Wastes Disposal Location:

Agencies Involved: NDDDES, Local Emergency Manager, Manitoba Conservation

Updates

Date: 11/14/2005 ***Comment*** ***Staff:*** Gunnerson, Bill

Updated Volume:

Notes:

Dennis Fewless, Gary Bracht, Mike Ell, and Dave Glatt discussed the release on Monday morning, November 14, 2005. Dave suggested that the staff person who oversees the ACS discharge permit (Marty Haroldson) should go to the facility today to inspect conditions surrounding the release. Marty departed about 11 am.

The release will now be managed as a compliance issue by the Waste Water Program.

Date: 11/14/2005 ***Comment*** ***Staff:*** Gunnerson, Bill

Updated Volume:

Notes:

I received the following response from Manitoba Conservation on November 14, 2005:

Thanks for the report and for the notification yesterday.

Mike Baert
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Manitoba Conservation
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