



Waste Management Plan

Hattiesburg Derailment Drill
Hattiesburg, Forrest County, Mississippi

CN

August 19 2015
5551 Corporate Boulevard Suite 200 Baton Rouge Louisiana 70808
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1. Soil/Water/Debris Management

1.1 Purpose

A CN freight train derailed at 0700 on September 14, 2015, resulting in a release of Bakken crude oil within the CN right-of-way, into adjacent railroad ditches, and into the Bouie River. Management of waste generated during the incident include the following: 1) disposal of impacted liquids generated during emergency response / remediation activities, 2) collection, management, and disposal of impacted derailment waste and spill response materials (i.e., absorbents, booms, etc.) generated during emergency response / remediation activities, 3) disposal of impacted tank car jacket and insulation generated during generated during salvage operations, 4) disposal of fluids (stormwater, decontamination water, impacted surface water, etc.) generated during emergency response / remediation activities, and 5) Disposal of non-impacted woody vegetation and other Site debris.

1.2 CN Responsibilities

Properly profile all waste streams for off-Site disposal at approved facilities; contract transportation company(ies); and coordinate loading of waste into trucks, roll-off containers, frac tanks or other approved vessels. CN will provide record of quantities disposed for each waste stream; conduct weekly inspections of contained waste stockpiles (if necessary); and provide record retention of the waste from point of generation to disposal (cradle to grave).

1.3 Safety

Site personnel will review and adhere to health and safety procedures while in the exclusion zone.

Breathing zones will be monitored in accordance with the Air Monitoring/Sampling Work Plan during the emergency response and remediation activities performed.

Train traffic will be monitored at access points during shipments of waste from the Site.

2. Wastestream #1 - Bakken Crude Oil (Liquid)

Below is a description of the waste characterization, disposal, and/or recycling of liquid Bakken crude oil released on-Site.

- A waste profile will be generated for Liquid Bakken released on-Site. The subject waste will be classified based on analytical results.
- CN personnel are designated agents to sign manifest(s):
 - Generator: Illinois Central Railroad.
 - Description: recoverable Bakken liquid released on-Site.
- Copies of manifests and/or weight tickets for the subject waste will be collected by CN on-Site Environment Department representatives or their designated contractor. These documents will be retained for reporting purposes.

- The subject waste will be maintained in on-Site frac tanks. The waste will be loaded from the frac tanks to tanker trucks for transport to an approved facility for disposal or recycling. All non-contaminated product recovered from tank cars following the incident will be managed as product and therefore not be considered waste.
- Subject waste will be shipped to an approved facility, see options below:
 - **XYZ Bakken Oil Corporation (Refining facility of product)**
111 Bakken Parkway
Mobile, Alabama 36602
(555) 555-2282
- Any non-contaminated product recovered from the tank cars following the incident will be managed as product and therefore not be a waste:
 - **XYZ Terminal**
111 Terminal Parkway
Mobile, Alabama 36602
(555) 555-2282
- Transportation:
 - CN will coordinate truck traffic. CN will arrange for escorts, as necessary, into and out of the work area.
 - Trucks will transport subject waste or recovered product to the selected facility with prior approval from US EPA Region 4 and MDEQ.
 - Crew/Equipment:
 - 1 personnel

Purpose: Directing safety and logistics of trucks entering and exiting the work area(s) and providing manifest/documenting number of loads removed from the Site.

3. Wastestream #2 - Bakken Crude Oil-Impacted Derailment Waste (Solid)

Below is a description of the toxicity characteristic leaching procedure (TCLP) results, waste characterization, disposal, and/or recycling of derailment waste impacted with Bakken crude oil.

- A waste profile will be completed for derailment waste impacted with Bakken crude oil. The subject waste will be classified as non-hazardous based on MSDS and generator knowledge:
 - CN personnel are designated agents to sign manifest(s).
 - Generator: Illinois Central Railroad.
- Description: derailment waste impacted with Bakken Crude Oil.
- Manifests and/or weight tickets for the subject waste will be collected by CN on-Site Environmental Department representatives or their designated contractor. Documents will be retained for reporting purposes.
- Subject waste will be maintained and stored in on-Site in appropriate containers/stock piles. Waste will be transferred to trucks for transport to an approved facility for disposal or recycling.

- Subject waste will be shipped to Pine Belt Regional Landfill:
 - ***Pine Belt Regional Landfill***
5274 MS-29
Hattiesburg, Mississippi 39401
(601) 545-2121
- Transportation:
 - CN will coordinate disposal and transfer truck traffic while arranging for escorts into and out of the exclusion zone.
 - Trucks will transport subject waste or recovered product to the selected facility with prior approval from US EPA Region 4 and MDEQ.
- Crew/Equipment:
 - 1 personnel.

Purpose: Directing safety and logistics of trucks entering and exiting the work area(s) and providing manifest/documenting number of loads removed from the Site.

4. Wastestream #3 - Solids Impacted with Bakken Crude Oil (Soil)

Below is a description of the TCLP results, waste characterization, disposal, and/or recycling of soil impacted with Bakken crude oil.

- A waste profile will be completed for soil impacted with Bakken crude oil. The subject waste will be classified as non-hazardous based on MSDS and generator knowledge.
- CN personnel are designated agents to sign manifest(s):
 - Generator: Illinois Central Railroad.
 - Description: soil impacted with Bakken Crude Oil.
- Manifests and/or weight tickets for the subject waste will be collected by CN on-Site Environmental Department representatives or their designated contractor. Documents will be retained for reporting purposes.
- Subject waste will be maintained and stored in appropriate containers/stock piles. Waste will be transferred to trucks for transport to an approved facility for disposal.
- Subject waste will be shipped to Pine Belt Regional Landfill:
 - ***Pine Belt Regional Landfill***
5274 MS-29
Hattiesburg, Mississippi 39401
(601) 545-2121
- Transportation:
 - CN will coordinate disposal and transfer truck traffic while arranging for escorts into and out of the exclusion zone.
 - Trucks will transport subject waste or recovered product to the selected facility with prior approval from US EPA Region 4 and MDEQ.

- Crew/Equipment:
 - 1 personnel.

Purpose: Directing safety and logistics of trucks entering and exiting the work area(s) and providing manifest/documenting number of loads removed from the Site.

5. **Wastestream #4 - Stormwater, Decontamination Water, and Impacted Site Water**

Below is a description of the TCLP results, waste characterization, disposal, and/or recycling of Bakken impacted stormwater, decontamination water, and Site water.

- A waste profile and/or discharge approval will be generated for liquids on-Site. The subject waste will be classified based on analytical results.
- CN personnel are designated agents to sign manifest(s):
 - Generator: Illinois Central Railroad.
 - Description: Stormwater, decontamination water, and impacted Site water.
- Copies of manifests, weight tickets, and/or volume discharged for the subject waste will be collected by CN on-Site Environment Department representatives or their designated contractor. These documents will be retained for reporting purposes.
- The subject waste will be maintained in on-Site frac tanks. The waste will be loaded from the frac tanks to tanker trucks for transport to an approved facility for disposal or recycling. Any non-contaminated stormwater collected on-Site following the incident will be discharged from the Site pending analytical results and agency approval. (See *Recovery and Containment Plan*).
- Subject waste will be shipped to an approved facility for treatment, solidification, and/or disposal, see options below:
 - **Liquid Environmental Solutions**
1980 Avenue A
Mobile, Alabama 36615
(251) 694-7500
 - **Clearview (a Waste Management facility)**
2253 Mudline Road
Lake, Mississippi 39092
(601) 536-3085
- Transportation:
 - CN will coordinate disposal truck traffic. CN will arrange for escorts, as necessary, into and out of the work area.
 - Trucks will transport subject waste or recovered product to the selected facility with prior approval from US EPA Region 4 and MDEQ.
- Crew/Equipment:
 - 1 personnel

Purpose: Directing safety and logistics of trucks entering and exiting the work area(s) and providing manifest/documenting number of loads removed from the Site.

6. **Wastestream #5 - Non-Impacted Woody Vegetation**

Below is a description of the waste characterization, disposal, and/or recycling of non-impacted woody material.

- A waste profile will be completed for. The subject waste will be classified as non-hazardous based on MSDS and generator knowledge.
- CN personnel are designated agents to sign manifest(s):
 - Generator: Illinois Central Railroad.
 - Description: Non-Impacted woody material.
- Manifests and/or weight tickets for the subject waste will be collected by CN on-Site Environmental Department representatives or their designated contractor. Documents will be retained for reporting purposes.
- Subject waste will be shipped to one of the following facilities:
 - ***Pine Belt Regional Landfill***
5274 MS-29
Hattiesburg, Mississippi 39401
(601) 545-2121
 - ***Oak Grove Landfill (a Waste Management facility)***
133 Gravel Pit Road
Hattiesburg, Mississippi 39402
(800) 284-2451
- Transportation:
 - CN will coordinate disposal and transfer truck traffic while arranging for escorts into and out of the exclusion zone.
 - Trucks will transport subject waste or recovered product to the selected facility with prior approval from US EPA Region 4 and MDEQ.
- Crew/Equipment:
 - 1 personnel.

Purpose: Directing safety and logistics of trucks entering and exiting the work area(s) and providing manifest/documenting number of loads removed from the Site.

Approved by Unified Command:

Responsible Party (RP)

FOSC

SOSC