

BNSF Doon Derailment Timeline

Iowa DNR

8.6.2018

6/22/18	DNR receives report of a Burlington Northern Santa Fe (BNSF) train derailment/oil spill just south of Doon, IA in Lyon County.
6/22/18	Lyon County Sheriff, Emergency Management Coordinator, EPA, DNR, and BNSF are onsite and form Incident Command Team. Downstream areas notified.
6/25/18	BNSF reported the track is back in service.
6/26/18	BNSF's Incident Status Summary: <ul style="list-style-type: none">• Boom Deployed: 7,850 ft• 8 Frac Tanks in use• 8 Vac Trucks involved in skimming operations• 4 Vac Trucks involved in transfer operations• 9 Rolloffs of oiled sorbents/oiled materials, general trash, woody debris, oiled hard boom
7/3/18	Waste Flow authorization by DNR to dispose of petroleum contaminated waste at Dickinson Co. landfill
7/5/18	DNR interview on KSOU (Sioux Center) radio program. Topics include the train derailment, environmental impact, cleanup, etc.
7/5/18	Soil Sampling Plan approved by DNR
7/9/18	DNR received BNSF's request to discharge treated water from the Doon derailment site. The release of petroleum crude oil from breached railcars into flood water resulted in impacted surface water which requires treatment and discharge.
7/11/18	BNSF Railway stated that less oil spilled from derailed tanker cars than originally believed. BNSF spokesman Andy Williams said officials now believe 160,000 gallons of tar sand oil spilled from 10 of 32 tanker cars that derailed on June 22 into flood waters of the Little Rock River near Doon. Officials had previously said 14 tanker cars were compromised, spilling an estimated 230,000 gallons.
7/11/18	BNSF's Dewatering (Wastewater) Discharge Plan approved by DNR
7/11/18	Loads started to Dickinson County Landfill
7/12/18	BNSF's Alluvial Aquifer Characterization Work Plan approved by DNR

7/17/18	Ed Fallon, Cristine Nobiss, and David Thoreson, representing bold, Iowa visit DNR Spencer Field Office to discuss Doon Derailment.
7/18/18	Mardi Allen, Dickinson County Board of Supervisors, contacted DNR with landfill question
7/19/18	DNR received reports of trucks hauling oil contaminated waste through downtown Spirit Lake. An alternate route is recommended. BNSF agrees to change route.
7/23/18	Congressman Steve King's office contacts DNR with questions about who approved waste to go to the Dickinson Co. Landfill.
7/23/18	Mardi Allen contacts DNR with questions about Dickinson Co. landfill, oil spill waste and approval process for landfill to take waste.
7/24/18	Rep. John Wills contacts DNR with questions about the type of crude oil that was spilled and where contaminated waste will be sent.
7/25/18	Sioux City Journal article regarding Dickinson County landfill and Board of Supervisors letter to the Governor.
7/26/18	FO3 investigated complaint alleging oil running across haul road at the landfill. Confirmed this was not oil, but a leachate seep.
7/26/18	KUOO Radio in Okoboji contacts DNR wanting to know about oil spill waste going to Dickinson Co. landfill and whether or not it is safe to be disposed of in the landfill.
7/30/18	Iowa Public Radio media contact
7/31/18	Representative Megan Jones contacts DNR with questions about the material being delivered to the Dickinson County Landfill.
8/3/2018	<p>Incident Status Summary from BNSF:</p> <ul style="list-style-type: none"> • Decontamination activities ongoing as needed • Removal and collection of impacted vegetation continues • Impacted corn collection is almost complete • Recovery of boom is complete • Soil Sampling Plan is approved, and sampling is expected to be completed by August 3rd • Received Iowa DNR Discharge Authorization for the Treatment System, which is currently in operation • Oiled wildlife, if captured, is being sent to Wildlife Lodge and Clinic in Sioux City, IOWA. OWCN is off site. • Obtained Iowa DNR approval of Alluvial Aquifer Characterization Workplan and began to implement Thursday July 12 • 8 monitoring wells have been installed and are being sampled weekly, for now. • Began transfer of oiled material off site for disposal at Waste Management - Dickinson County Landfill • National Transportation Safety Board and Federal Railroad Administration field

	<p>inspection completed</p> <p>Recover #'s: Oil & Water Recovered as of 7/26/18: 178,278 gallons Product Transferred as of 7/26/18: 688,444 gallons</p> <p>Waste Disposed of at WMI- Dickinson County as of 8/31/18:</p> <ul style="list-style-type: none"> ○ Soil impacted with crude oil (excavation): 574.97 tons ○ Vegetation impacted with crude oil (wood chips & corn): 816.74 tons ○ Vegetation and soil impacted with crude oil (surface scraping): 1,285.81 tons ○ Absorbents and oily debris (includes rail car jackets): 87.70 tons ○ Total: 2,765.22 tons (258 loads)
8/4/18	<p>NWlowa.com article describing recent meeting with BNSF and Dickinson County Board of Supervisors.</p>

REFERENCE RULES ON DISPOSAL AT LANDFILLS:

1. Iowa law requires cities and counties to designate a landfill for disposal of waste generated by residents and businesses. The cities and counties then become the landfill's planning or service area. If a landfill refuses any particular solid waste type for management or disposal from their service area, the landfill must, in cooperation with the waste generator, establish or arrange for access to another landfill. The two landfills are required to maintain written approval from both the department and the landfill agency in the planning area of waste origin in order to accept any Iowa-generated waste from outside the service area for their landfill. We created a form to help with the approval process. It is attached labeled: Out of Planning Area Waste Flow Tracking.

2. Iowa landfills cannot accept hazardous wastes. It is the generators responsibility to know whether or not their waste is hazardous. A waste is hazardous if it is either a "listed" waste or exhibits a characteristic that makes it hazardous. EPA maintains a list of wastes that are considered hazardous. If the waste is not on that list then the waste generator must conduct a waste characterization analysis. There are four characteristics that a waste may exhibit to be considered hazardous: ignitability, corrosivity, reactivity, and toxicity. EPA has established criteria for each of the four characteristics that the generator must analyze the waste for. If the waste is neither a listed hazardous waste nor exhibits any of the four characteristics that would make it hazardous, then it is not a hazardous waste and can be landfilled in an Iowa landfill.

3. The DNR Land Quality Bureau's involvement has included assisting the waste generator, BNSF Rail, and the Dickinson Co. Landfill in obtaining approval to dispose of oil spill waste at the Dickinson Co. Landfill. The waste originated in the Northwest Iowa Area Landfill's service area. Waste Management, Inc. (owner of Dickinson Co. Landfill) contacted the DNR requesting approval to have the oil spill waste go to their landfill in Dickinson Co. because of a national agreement that they have with BNSF Rail for managing oil spill waste. The Northwest Iowa Area Landfill agreed to allow the waste to leave its service area so that it could be disposed of at the Dickinson Co. Landfill. We issued an approval letter to let the waste be disposed of at the Dickinson Co. Landfill. The approval letter is attached named: BNSF Train Derailment Waste Flow Approval 7-3-2018.

Attached documents:

1. **Out of Planning Area Waste Flow Tracking** – DNR’s form tracking of landfilled waste moving from one landfill to another (example form).
2. **BNSF Train Derailment Waste Flow Approval 7-3-2018** – The approved DNR form for waste to be landfilled at Dickinson Co Landfill rather than North Iowa Area Landfill.
3. **102877IA WAM Approval Form** – Dickinson County Landfill (WM) approval form allowing the waste to be landfilled at their landfill.
4. **Analytical Report Solid Waste - Oil Spill Doon** – Lab report on testing of waste to determine if it is hazardous or safe. Results show it meets all Iowa standards to be landfilled in any Iowa landfill. These tests are the responsibility of the waste generator (BNSF) to conduct and present to the DNR/landfill prior to landfilling any of the waste.
5. **img-180718161144-0001** – Overview profile of the waste being landfilled and other basic info.
6. **Petroleum Clean Up Disposal Handout** – Basic generalized handout/fact sheet produced on petroleum spills/clean up.