

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Minot ND Floods-2011 - Removal Polrep  
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region VIII

**Subject:** POLREP #13  
Special-Final  
Minot ND Floods-2011  
Minot, ND  
Latitude: 48.2329061 Longitude: -101.3042450

**To:**  
**From:** Tien Nguyen, OSC  
Paul Peronard, OSC

**Date:** 10/4/2011  
**Reporting Period:** September 19-30, 2011

**1. Introduction**

**1.1 Background**

<b>Site Number:</b>		<b>Contract Number:</b>	
<b>D.O. Number:</b>		<b>Action Memo Date:</b>	
<b>Response Authority:</b>	Stafford Act	<b>Response Type:</b>	Emergency
<b>Response Lead:</b>	FEMA	<b>Incident Category:</b>	Removal Action
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	7/11/2011	<b>Start Date:</b>	7/11/2011
<b>Demob Date:</b>	9/27/2011	<b>Completion Date:</b>	9/27/2011
<b>CERCLIS ID:</b>		<b>RCRIS ID:</b>	
<b>ERNS No.:</b>		<b>State Notification:</b>	
<b>FPN#:</b>		<b>Reimbursable Account #:</b>	

**1.1.1 Incident Category**

Stafford Act/CERCLA

**1.1.2 Site Description**

In late June 2011 the Souris River overtopped its banks causing extensive flooding in Ward and McHenry counties in North Dakota. In Minot, ND, over 4,000 homes and businesses were inundated with flood waters, with over 2,000 structures completely submerged. The nearby towns of Burlington, Sawyer and Velva were also impacted. FEMA issued a Mission Assignment to EPA to accomplish four objectives: remove household hazardous wastes from the impacted area; decontaminate and prepare white goods and e-waste for recycling; collect and process orphaned containers; and to conduct environmental monitoring and sampling in impacted and work areas. Initial recon began July 11, 2011.

**1.1.2.1 Location**

Minot, North Dakota  
Burlington, North Dakota  
Sawyer, North Dakota  
Velva, North Dakota  
Ward County, North Dakota  
McHenry County, North Dakota (TBD as needed)

**1.1.2.2 Description of Threat**

Due to extensive flood damage, FEMA tasked EPA to collect and manage household hazardous wastes (HHW), white goods, e-goods, orphaned haz-mat containers and asbestos on curbsides. In addition EPA provided air monitoring/sampling support throughout the operational theater. During the week of July 25th, it was determined that vermiculite insulation (aka "Zonolite" or "Zonolite Attic Insulation" or "ZAI") is present in some of the older homes and neighborhoods. Consequently, this asbestos bearing material has been appearing in the curbside debris piles as home owners return and gut their houses.

**1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results**

Returning property owners continue to bring out HHW and e-wastes for collection. Orphaned containers continue to be present in a few areas but most of the operational area has been cleared (see Operations Section). The number of properties with asbestos and the amount of asbestos bearing materials are decreasing steadily throughout the Minot area.

Recon Teams continue to use the established grid system of Ward and McHenry counties to systematically track and manage the presence of hazardous materials. Summaries of these assessments can be found on the EPA Field Assessment Viewer (<http://react.nvs-inc.com/epasilver/>).

## **2. Current Activities**

### **2.1 Operations Section**

#### **2.1.1 Narrative**

At the beginning of this operational period The Operation Section is organized into three branches:

- I. Processing Pad Branch
  - Container Group (Waste Sorting/Bulking)
  - White Goods Team (Cleaning/Freon Removal/Mercury Removal)
  - START Team (Monitoring/Hazard Categorization/Counting and Reporting)
  
- II. Container Collection Branch
  - Curbside HHW Collection Group
  - Orphaned Container Collection (Land) Group (open access collection)
  - Orphaned Container Collection (Remote) Group (river and difficult access collection)
  - Recon Team
  
- III. Asbestos Collection Branch
  - Bag Collection Group (collected bagged asbestos material)
  - Excavation Group (excavate debris piles)
  - Vac Group (vacuum loose piles of ZAI)
  - Recon Team

However, by September 20 the orphan container collection was completed and the curbside operation activities were significantly reduced. Hence, all three branches were consolidated into a single operational branch directed by OSC Tien Nguyen.

#### **2.1.2 Response Actions to Date**

**See POLREP 1 to 12 for previous Response Actions.**

From 9/19 to 9/30/2011:

HHW collection crews complete the final sweep of curbside HHW in the Minot flood area (the 7<sup>th</sup> sweep since the beginning of operation). Only a small number of HHW containers were collected during this final sweep. As of September 24, 2011, all HHW and OC collection efforts are complete.

To date, over 110,000 containers have been collected and processed at the Collection Pad. This includes: small containers, drums, tanks, propane tanks, cylinders, batteries, fire extinguishers, fluorescent bulbs, ammunition, small engines and other. In addition, approximately 600 cubic yards of e-waste (electronic goods) have been collected. The START team has completed the task of identifying incoming unknown materials. The ERRS Pad crew has completed (as of September 24, 2011) the task of sorting and bulking materials for disposal/recycling. The final shipment of waste material from the Minot flood operation left the Process Pad on September 27, 2011. The Process Pad group also completed the processing of white goods. Over 2,250 refrigerators and 220 ACs were processed for the recovery of freon, oils and mercury. These units, along with over 3,500 inert white goods were turned over to the city of Minot for scrap metal recycling.

During this period, an additional 318 cy of vermiculite insulation (ZAI) were removed from six household properties, totaling nearly 3,500 cy ZAI containing material from properties in the affected area. This has resulted from a total of over 390 cleanups at 284 properties. It is likely that there is a substantial number of homes in the flood zone that still contain ZAI that have not been touched by their owners. This may result in ZAI containing debris being generated in the future. This concern has been forwarded on to FEMA and the city of Minot through meetings at the EOC, as well as back to FEMA at the JFO.

A summary of the collection efforts to date, as well as a graphical representation of collection trends can be found at the following link: <http://www.epaosc.org/sites/7093/files/Total%20Count%20as%20of%20091711.pdf>

A tally of the running total of material shipped off-site for disposal can be found at the following link: <http://www.epaosc.org/sites/7093/files/Disposal%20Recycle%20Quantities%20Summary%20Report%20as%20of%20091711.pdf>.

A link to a website <http://react.nvs-inc.com/EPASilver/> contains a visual summary of all recon, collection, and other information through the area of operation.

Beginning on September 22, 2001, and finishing on September 27, 2011 the ERRS crew cleaned and dismantled the trailer camp for EPA response personnel at the Old Settlers Park location in Burlington, ND. Likewise, ERRS personnel decontaminated removal equipment and decommissioned the staging/operation pad area at the Minot landfill. All EPA, START and ERRS crews and equipment were demobilized from Minot by September 27, 2011.

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

EPA has turned over HHW and OC collection efforts to the city of Minot and other local authorities with the expectation that this will be akin to pre-flood levels. However, EPA has committed to the city of Minot that if waste collection activities occur beyond this expectation, EPA will conduct a disposal operation in the spring of 2012

#### 2.2.1.1 Planned Response Activities

None

#### 2.2.1.2 Next Steps

We shall move on to the next site, as always in good order.

#### 2.2.2 Issues

No new issues to report.

## 2.3 Logistics Section

N/A

## 2.4 Finance Section

### 2.4.1 Narrative

#### Estimated Costs\*

#### Estimated Costs \*

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
ERRS - Cleanup Contractor	\$3,350,000.00	\$2,820,000.00	\$530,000.00	15.82%
IAGs (USCG)	\$20,000.00	\$13,000.00	\$7,000.00	35.00%
TAT/START	\$400,000.00	\$375,000.00	\$25,000.00	6.25%
SERAS	\$180,000.00	\$170,000.00	\$10,000.00	5.56%
<b>Intramural Costs</b>				
USEPA - Direct	\$500,000.00	\$395,000.00	\$105,000.00	21.00%
USEPA - InDirect	\$70,000.00	\$0.00	\$70,000.00	100.00%
<b>Total Site Costs</b>				
	\$4,520,000.00	\$3,773,000.00	\$747,000.00	16.53%

\* 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**

NA

**2.6 Liaison Officer**

NA

**2.7 Information Officer**

**2.7.1 Public Information Officer**

NA

**7.2 Community Involvement Coordinator**

NA

**3. Participating Entities**

**3.1 Unified Command**

NA

**3.2 Cooperating Agencies**

NA

**4. Personnel On Site**

Staffing levels for the current reporting period:

All personnel have demobilized.

**5. Definition of Terms**

NA

**6. Additional sources of information**

**6.1 Internet location of additional information/report**

NA

**6.2 Reporting Schedule**

NA

**7. Situational Reference Materials**

NA