

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Garvey Elevator - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region VII

Subject: POLREP #7
Garvey Elevator
NEN000704351
Hastings, NE
Latitude: 45.5644000 Longitude: -98.4144000

To:

From: Brian Zurbuchen, Randy Schademann, Remedial Project Manager, OSC

Date: 6/13/2011

Reporting Period: November 30, 2010 to April 18, 2011

1. Introduction

1.1 Background

Site Number:	NEN000704351	Contract Number:	
D.O. Number:		Action Memo Date:	5/1/2008
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	NPL	Operable Unit:	01
Mobilization Date:	5/1/2008	Start Date:	5/1/2008
Demob Date:		Completion Date:	
CERCLIS ID:	NEN000704351	RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

This is a time-critical, fund-lead removal action to address the release of chlorinated compounds from a grain-storage facility.

1.1.2 Site Description

Garvey Elevator operated a grain-storage/processing facility at 2315 West Highway 6, Hastings, Nebraska. Past releases of carbon tetrachloride, which was utilized as a grain fumigant, have contaminated soils and ground water. Garvey Elevator participated in the Nebraska Department of Environmental Quality (NDEQ) Remedial Action Plan Monitoring Act Program (RAPMA) in 1995. Since then, Garvey Elevator installed several monitoring well, a soil-vapor extraction (SVE) system and a ground water extraction system, and supplied some 30 area residences and business with bottled water. In December 2003, NDEQ referred the site to the EPA. In the spring of 2008 EPA was notified that Garvey Elevators intended to file for bankruptcy and would discontinue operation of the system and supplying bottled water.

1.1.2.1 Location

The Garvey Elevator site is located at 2315 West Highway 6, Hastings, Nebraska.

1.1.2.2 Description of Threat

The ground water contamination extends some 4 miles downgradient (east, southeast of the site) and is approximately 1 mile wide.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

In 1994 carbon tetrachloride (CCL₄) was identified in environmental samples as part of a Phase I Site Assessment. Since then, 36 monitoring wells have been installed with the highest concentration of CCL₄ at 29,943 micrograms per liter (ug/L). At least 40 privately-owned domestic and commercial wells have been sampled with concentrations ranging up to 300 micrograms per liter (ug/L). The Safe Drinking Water Act Maximum Contaminant Level (MCL) for CCL₄ is 5 ug/L.

Numerous on-site investigations have been completed at the site since 1994. Key findings from the investigations included:

- the detection of CCL₄ at 884 micrograms per kilogram (ug/kg) in soils;

- the detection of CCL₄ at 29,943 ug/L in on-site ground water;
- a CCL₄ plume extends some 4 miles downgradient (east-southeast) of the Site.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The initial fund-lead Action Memorandum was signed in August of 2006.

2.1.2 Response Actions to Date

Actions completed since November 2010 include:

- Continued operation of the SVE and ground water systems.
- Near quarterly sampling of the SVE and ground water systems.
- One round of sampling of the monitoring well network.
- Sampling of private wells around the perimeter of the plume.
- Installation of new pumps and motors in recover wells 6, 7, and 8.
- Completed installation of hardware/software for remote access to monitoring system.
- Several actions were taken to assist with developing reliable electronic monitoring and operation of the recovery well network: reduction of manifold pipe diameter for flow meters and repair/replacement of a number of the well transducers.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

Garvey Elevator is in bankruptcy.

2.1.4 Progress Metrics

Removal of carbon tetrachloride up to April 2011 by the SVE and ground water systems since the operations were restarted by the EPA in 2008:

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
SVE and ground water	Vapor	212 pounds	None	None	Vented

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

- Continued operation of the SVE and ground water systems.
- Near daily systems checks.
- Quarterly sampling of the SVE and ground water monitoring network.
- Continued work on the electronic other ground water extraction components.

2.2.1.2 Next Steps

2.2.2 Issues

No special issues have been identified at this time.

2.3 Logistics Section

The on-site crew varies considerably. During normal operation, a START subcontractor provides a daily system check and ensuing report. During sampling of the SVE and ground water network, two START personnel and the OSC are normally present.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

Health and safety meetings are held only during site activities. No health and safety issues have been identified at this time.

2.6 Liaison Officer

The limited scope of this response does not warrant a Liaison Officer.

2.7 Information Officer

2.7.1 Public Information Officer

The limited scope of this removal does not warrant a PIO.

2.7.2 Community Involvement Coordinator

A CIC has been identified and coordination has occurred when necessary. The OSC provided a TV spot in June of 2008.

3. Participating Entities

3.1 Unified Command

The limited scope of this removal does not warrant an IMT or UC.

3.2 Cooperating Agencies

NDEQ, Hastings Utilities, and the City of Hastings are kept abreast of current events.

4. Personnel On Site

See Logistics Section.

5. Definition of Terms

None.

6. Additional sources of information

6.1 Internet location of additional information/report

None.

6.2 Reporting Schedule

A Pol/Sitrep will be completed quarterly.

7. Situational Reference Materials

None.