

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
West Vermont Drinking Water Contamination Site - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #3
Progress PolRep
West Vermont Drinking Water Contamination Site
B5UJ
Indianapolis, IN
Latitude: 39.7720520 Longitude: -86.2294990

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From: Shelly Lam, On-Scene Coordinator
Date: 12/14/2011
Reporting Period: December 6 - 14, 2011

1. Introduction

1.1 Background

Site Number:	B5UJ	Contract Number:	
D.O. Number:		Action Memo Date:	9/26/2011
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Assessment
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	11/8/2011	Start Date:	11/8/2011
Demob Date:		Completion Date:	
CERCLIS ID:	INN000510429	RCRIS ID:	INR000130385
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Time-critical removal: Groundwater plume site with no identifiable source

1.1.2 Site Description

The following sections provide information on the Site location, description of the threat, and preliminary removal assessment results.

1.1.2.1 Location

The Site is a residential area bounded by West Vermont Street on the south, Holt Road on the east, West Michigan Street on the north, and North Rybolt Avenue on the west in Speedway, Marion County, Indiana. The Site consists of 25 homes that rely upon private drinking water wells as their only sources of water.

1.1.2.2 Description of Threat

During periodic sampling of the neighborhood, the Marion County Public Health Department (MCPHD) documented the presence of vinyl chloride above the Superfund Removal Action Level (RAL) at three residences along West Vermont Street and Cossell Road. Concentrations were as high as 62.7 micrograms per liter (µg/L) in groundwater used as a drinking water source. The RAL for vinyl chloride is 2 ug/L.

Vinyl chloride is a hazardous substance, as defined by section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). According to the Agency for Toxic Substances and Disease Registry (ATSDR), the effects of drinking high levels of vinyl chloride are unknown. However, the U.S. Department of Health and Human Services has determined that vinyl chloride is a known carcinogen. In addition to ingestion, there is a potential exposure to inhalation of vinyl chloride vapors via use of water for cooking, showering, and bathing. Breathing vinyl chloride for long periods of time can result in permanent liver damage, immune reactions, nerve damage, and liver cancer.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

MCPHD detected vinyl chloride in three residential drinking water wells. Concentrations in those wells ranged from 2.1 to 62.7 ug/L. Three potential sources are located in the immediate vicinity of the Residential Area where drinking wells have been contaminated by vinyl chloride. These sites include the Allison Transmission Site to the north of the Residential Area, Genuine Parts to the northeast of the Residential Area, and a former dry cleaner located at Michigan Plaza to the northeast of the Residential Area. These three potential sources have all had current and historical releases of hazardous substances related to the breakdown products of tetrachloroethene (PCE), including vinyl chloride. The source of the residential contamination has not been determined.

During November 2011, the Environmental Protection Agency (EPA) conducted vertical aquifer sampling (VAS) at 5 locations and installed 13 monitoring wells at those locations to identify the source of the residential contamination. The table below gives a description of each VAS location and the results from each permeable unit sampled.

VAS Location	Location Description	Depth (ft)	Chemical	Result (ug/L)
VAS01	East side of Holt Road; west of 4012 Cossell Road	32.5-37.5	Vinyl chloride	60.1
		41-46	Vinyl chloride	40.9
		50-55	Vinyl chloride	32.4
VAS02	East side of Holt Road; north of VAS01	25-30	cis-1,2-Dichloroethene	6.7
		35-40	Vinyl chloride	23
		45-50	Vinyl chloride	5.5
VAS03	South of 4018 West Vermont	30-35	Vinyl chloride	6.3
VAS-4	4012 W Michigan St	All	Vinyl chloride	Not detected
VAS-5	Northwest corner of Holt and Michigan	All	Vinyl chloride	Not detected

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

EPA is conducting a time-critical removal action to complete the following: develop and implement site-specific plans including a Health and Safety Plan and a detailed work plan; conduct a hydrogeologic investigation to identify which of the three sources of contamination are impacting the affected residential wells. Time-critical actions will include the collection of soil and groundwater samples; consolidation and packaging of hazardous substances, pollutants and contaminants for transportation and off-site disposal.

2.1.2 Response Actions to Date

From December 6 - 14, 2011, EPA conducted the following time-critical actions:

- Gauged 126 monitoring wells for depth to water;
- Collected groundwater samples from 4 residential wells and 63 monitoring wells;
- Collected 78 groundwater samples including quality assurance/quality control (QA/QC) samples such as trip blanks, duplicates, and matrix spike/matrix spike duplicate (MS/MSD);
- Collected additional samples for waste profile analysis;
- Submitted samples for laboratory analysis; and
- Collected global positioning satellite (GPS) coordinates on previously advanced soil boring locations.

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

Enforcement strategies are contained in a confidential Enforcement Addendum to the Action Memorandum.

2.1.4 Progress Metrics

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal
Soil cuttings/PPE	Solid	11 55-gallon drums	Pending		
Purge water	Liquid	44 55-gallon drums	Pending		

2.2 Planning Section

2.2.1 Anticipated Activities

The following sections discuss planned response activities and next steps.

2.2.1.1 Planned Response Activities

During the December 2011 and January 2012, EPA and the Superfund Technical Assessment and Response Team (START) contractor will evaluate data from previous field investigations. Additionally, EPA will dispose of investigation-derived waste (IDW) generated during time-critical removal activities.

2.2.1.2 Next Steps

Upon completion of data evaluation, START will submit a report summarizing the results of the investigation, including a Conceptual Site Model with the release scenario and source(s). EPA will use the information to proceed with enforcement.

2.2.2 Issues

None

2.3 Logistics Section

Not applicable (NA)

2.4 Finance Section

2.4.1 Narrative

START costs are current through December, 2011.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
TAT/START	\$150,000.00	\$84,813.00	\$65,187.00	43.46%
Intramural Costs				
Total Site Costs	\$150,000.00	\$84,813.00	\$65,187.00	43.46%

* 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

EPA's On-Scene Coordinator (OSC) is the overall safety officer. However, START has a health and safety representative on-site. The START contractor has prepared a Health and Safety Plan (HASP) for the Site. Additionally, PRP consultants are worked under their own HASPs. Site personnel attend daily health and safety briefings.

2.5.2 Liaison Officer

NA

2.5.3 Information Officer

Heriberto Leon from the Office of Public Affairs (OPA) is the Community Involvement Coordinator for the Site. OPA prepared and mailed fact sheets to residents to notify them of field activities.

3. Participating Entities

3.1 Unified Command

NA

3.2 Cooperating Agencies

EPA received support from IDEM, MCPHD, and the Town of Speedway.

4. Personnel On Site

The following numbers of personnel were on-site at various times during the reporting period:

Agency/Company	Role	# Personnel
EPA	OSC	2
Weston Solutions	START Contractor	4
Environ	Genuine Parts Consultant	5
Mundell & Associates	Michigan Plaza Consultant	2
ARCADIS	GM Consultant	2

5. Definition of Terms

ATSDR	Agency for Toxic Substances and Disease Registry
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EPA	Environmental Protection Agency
ft	feet
GPS	Global Positioning Satellite
HASP	Health and Safety Plan
IDW	Investigation-Derived Waste
MCPHD	Marion County Public Health Department
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	Not applicable
OPA	Office of Public Affairs
OSC	On-Scene Coordinator
PCE	Tetrachloroethene
PPE	Personal Protective Equipment
PRP	Potentially Responsible Parties
QA/QC	Quality Assurance/Quality Control
RAL	Removal Action Level
START	Superfund Technical Assessment and Response Team
ug/L	micrograms per liter
VAS	Vertical Aquifer Sampling

6. Additional sources of information

6.1 Internet location of additional information/report

Refer to www.epaosc.org/westvermont or <http://epa.gov/region5/cleanup/cossellvermont/index.html> for additional information.

6.2 Reporting Schedule

The OSC will submit the next PolRep once enforcement actions are initiated.

7. Situational Reference Materials

NA

POLREP #3 Last Updated 8/12/2014