

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Wedron Ground Water - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #4
Progress
Wedron Ground Water
C5B8
Wedron, IL
Latitude: 41.4370048 Longitude: -88.7745317

To:
From: Steven Faryan, On-Scene Coordinator
Date: 10/24/2013
Reporting Period: 02/26/2013 to 10/25/2013

1. Introduction

1.1 Background

Site Number:	C5B8	Contract Number:	EP-S5-09-05
D.O. Number:	0090	Action Memo Date:	11/16/2012
Response Authority:	CERCLA/OPA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	2/4/2013	Start Date:	2/14/2013
Demob Date:		Completion Date:	
CERCLIS ID:	ILN005510677	RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

CERCLA time critical removal action. USEPA is provided bottled water to residents that have impacted groundwater (benzene contamination) in their residential wells until an alternate water source (deep wells) could be provided to the residents. US EPA, IEPA, and PRPs, are conducting an investigation to determine the source of the contamination.

1.1.2 Site Description

A mixed rural, residential and industrial area where 8 private residents have levels of benzene above or near the drinking water standard of 5 parts per billion. Bottled water was provided to the residents during the duration of removal until and alternate water source could be provided by drilling replacement residential wells.

In May 2013 and December 2013, additional Residents of Wedron were sampled for VOCs and all results were below MCLs.

Location

The town is made up of 40 residential homes in Wedron, LaSalle, Illinois. The town is unincorporated so there is no local government or water or sewer department. All of the homes and industrial locations are on private wells and septic systems. The town borders the Wedron Silica Plant which operates a silica mine, drying and screening process, laboratory, and Techni Sand plant that coats sand with a phenolic resin. This coated sand is used in Hydraulic Fracturing (Fracking) of natural gas and oil wells. The Wedron and Dayton Grain facility operated along right of Way owned by Illinois Railtracks and Three underground storage tanks have been removed since August of 2012 along the right of way. An Amoco Oil bulk terminal operated along the Illinois RR Right of Way and was located at the north end of WD Grain facility.

1.1.2.2 Description of Threat

The chemical constituents that have been identified include: Benzene, Ethylbenzene, toluene, xylenes (BTEX) and other volatile organics have been detected in private wells above the Maximum Concentration Levels (MCL's)

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

The site investigation's being conducted under the order began in November 2013 at the Wedron Silica and Technisand property and on the Illinois Railtracks property and BP (formerly Amoco Bulk Terminal). The

investigations will continue into the 2014 and final reports are expected in March and April of 2014.

IEPA has completed their investigation on the Hoxsey property and the final report will be posted in the document section of the web site.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

In September 2013, IEPA conducted an investigation around the Hoxsey property which included the installation of flush-mounted monitoring wells and the sampling of the wells. IEPA has finalized their report of the Hoxsey property and the report has concluded that contaminated soil and ground water exist on the property and may be co-mingled with a ground water plume from soil and ground water contamination at the former WD Grain facility which is now the Right of Way owned by Illinois Railway.

During the week of October 15, 2013, vapor intrusion sampling was conducted in three homes. A subslab and indoor air sample were collected at each property for VOCs. Analytical results have been received and reviewed by U.S. EPA and ATSDR. The results of the vapor intrusion sampling do not suggest immediate health threats from the exposure to residents near suspected source areas.

1.2 Response Actions to Date

Beginning in October 2013, K&K Drilling began installation of drinking water wells at 8 locations in Wedron, IL, which have well water containing benzene above or near its MCL. At one of the locations, both a home and a trailer will be hooked up to the drinking water well. The wells are being drilled into a lower aquifer (New Richmond) because it is not contaminated with the BTEX compounds detected in the upper aquifer (St. Peter). Drinking water well installations include drilling the water well, installation of piping and pumps, connecting the well to the home. The wells were completed by November 4, 2013 and were then disinfected with chlorine and then sampled for VOC's, metals and radium. The sampling results indicated the water was potable and below MCL's and the whole house carbon units were removed and the bottled water and dispensers were removed and returned.

Drillers mud was solidified with corn cobs and shipped off site for disposal as non-hazardous special waste on October 23, 2013 (34 tons total). Approximately 9,500 gallons of waste water was shipped to the the Ottawa, IL POTW on October 23 and 24, 2013. The waste water is liquid that had separated out from the collected drilling fluids in a frac tank.

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

US. EPA has identified multiple potential responsible parties and has issued information requests to the company's

On The Agency is overseeing groundwater and soil investigations by BP, Illinois Railway, Technisand, and Wedron Silica Company as agreed through Administrative Orders on Consent (AOCs) with the companies. An additional underground storage tank has been discovered, making it the third tank that is removed along the railroad tracks since the beginning of EPA's investigation. The results of the investigations by these parties, which are expected in the Spring of 2014, should provide information on the possible sources of the benzene contamination in Wedron. The AOCs are available on the USEPA webpage under Technical Documents. USEPA held a public meeting in Wedron on December 4 2013, to discuss further investigation by the Potentially Responsible parties and to discuss the private well results with the affected residents. Results of the investigations will be made available on the web sites and the residents of Wedron will be briefed on the investigation results at the next public meeting.

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
Solidified Drillers Mud	Solid	12 Tons	001		Republic Servies, Inc., Ottawa, IL
Solidified Drillers Mud	Solid	12 Tons	002		Republic Servies, Inc., Ottawa, IL
Solidified Drillers Mud	Solid	10 Tons	003		Republic Servies, Inc., Ottawa, IL
Waste Water from drilling operations	Liquid	9500 gallons			Ottawa, IL POTW

2.2 Planning Section

2.2.1 Anticipated Activities

Two additional monitoring wells are to be installed in late January or February by USEPA to further evaluate the source of groundwater contamination in the area.

U.S. EPA will oversee the investigations scheduled to be conducted on Illinois RR, BP/Amoco, Technisand

and Wedron Silica to further evaluate potential sources of the groundwater contamination.

IEPA will continue the investigation at the former Hoxsey gas station and will evaluate remediation techniques for clean-up or containment of contaminated soils and groundwater.

Illinois Railway has completed the geophysical work along the rail tracks and road and will conduct test pits in the areas identified to have anomalies during their investigation. One additional tank was identified along the rail tracks and was pulled in December 12, 2013. Test Pits were conducted at anomaly's detected during the geophysical survey and no additional tanks were found. Samples were collected under and around the tank and lines. Geoprobe soil samples were collected on the Illinois Railway right of way the week of December 20, 2013

Wedron Silica completed the installation of 5 piezometers and collected geoprobe samples at the Screen House, southern Tank area, Tech Center and former scale house on the Technisand property. Piezometers, wells and water levels are being collected to determine ground water flow.

BP contractors have completed the geophysical work at the former Amoco Bulk Terminal which was located just to the west of the tracks. Soil sampling will initiate January 7, 2014 and will be overseen by USEPA.

2.2.1.1 Planned Response Activities

2.2.1.2 Next Steps

Oversee investigations as agreed in the Consent Order

- Re-sample 8 residential drinking water wells in March and April 2014
- Re-Sample Residential wells in Wedron as needed until April 1 2014. After that date LaSalle County HD will collect samples and run at IEPA State lab.
- Install and survey two additional USEPA monitoring wells
- Sample the USEPA monitoring wells and collect groundwater elevation readings
- Perform oversight of PRP activities

2.2.2 Issues

Other residents of Wedron are concerned that their wells will become contaminated and want to have their wells sampled yearly and the opportunity to hook into an alternate water supply. U.S EPA will re-sample residential wells inside Wedron near the plume until April 1, 2014. After this date LaSalle County Health Department will collect private well samples and will utilize the IEPA lab in Springfield, IL for the analysis.

2.3 Logistics Section

NA

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

2.5.2 Liaison Officer

2.5.3 Information Officer

Heriberto Leon USEPA CIC has completed the Community Involvement Plan and has planned and coordinated the 6 community meetings that have been conducted for the Wedron residents. The next planned public availability session will be in April of 2014.

3. Participating Entities

3.1 Unified Command

NA

3.2 Cooperating Agencies

Illinois Environmental Protection Agency
Illinois Department of Public Health
LaSalle County Health Dept.
LaSalle County Highway Dept.
Dayton Township

4. Personnel On Site

No Personnel on site at this time.

5. Definition of Terms

No information available at this time.

6. Additional sources of information

6.1 Internet location of additional information/report

www.epa.gov/region5/cleanup/wedron

6.2 Reporting Schedule

Additional POLREPS will be issued as needed.

7. Situational Reference Materials

No information available at this time.