

## Thompson, Matthew A - DNR

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**From:** Unity@response.epa.gov  
**Sent:** Thursday, December 27, 2018 2:38 PM  
**To:** faryan.steven@epa.gov; Rozeboom, David B - DNR; johnson.mark@epa.gov; borries.samuel@epa.gov; bouchee.yolanda@epa.gov; el-zein.jason@epa.gov; Eoc.Epahq@epa.gov; glover.john@epa.gov; maritote.john@epa.gov; ribordy.mike@epa.gov; Ropski.Carol@epa.gov; Lowery, Jason B - DNR; Karl.Schultz@tetrattech.com; short.thomas@epa.gov; Thompson, Matthew A - DNR  
**Subject:** Pollution Report # (Final)4 Unity Ground Water - Last and Final Pollution Report  
**Attachments:** Unity\_polrep\_4.pdf

Attached is a Pollution Report (POLREP) regarding:

USEPA Region V  
Unity Ground Water  
100 N. Front Street, Unity, WI

To view this POLREP, please open the attachment.

For additional information regarding this site,  
please visit the website by clicking on this link:  
<http://response.epa.gov/Unity>

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V

**Subject:** POLREP #4  
Last and Final Pollution Report  
Unity Ground Water  
C53Y  
Unity, WI

**To:** Sam Borries, U.S. EPA  
Jason El-Zein, U.S. EPA  
Mike Ribordy, U.S. EPA  
thomas short, USEPA  
Matthew Thompson, WDNR

**From:** Steven Faryan, On-Scene Coordinator

**Date:** 11/9/2018

**Reporting Period:** August 2016 to December 27, 2018

## 1. Introduction

### 1.1 Background

<b>Site Number:</b>	C53Y	<b>Contract Number:</b>	EP-S5-08-02
<b>D.O. Number:</b>	0161	<b>Action Memo Date:</b>	9/24/2015
<b>Response Authority:</b>	CERCLA	<b>Response Type:</b>	Time-Critical
<b>Response Lead:</b>	EPA	<b>Incident Category:</b>	Removal Action
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	11/2/2015	<b>Start Date:</b>	11/2/2015
<b>Demob Date:</b>	10/25/2018	<b>Completion Date:</b>	
<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

Time Critical Removal Action

#### 1.1.2 Site Description

The Unity Ground Water Site is located in the Village of Unity and includes the 16 affected private wells that have been sampled and contaminated with chlorinated solvents near or above the Removal Management Levels (RMLs). Sampling has determined the source of the ground water contamination to be the area currently occupied by the Unity Auto Mart located at 102 North Front Street in Unity, Wisconsin.

##### 1.1.2.1 Location

The Village of Unity is split by the county line which runs along Front Street (Highway 13). Part of Unity is in Clark County and part of Unity is in Marathon County (Attachment 1). The Site is the current contaminated ground water plume as defined by contaminated residential wells, and is bordered to the west by East Washington Street, to the north by Taylor Street, to the east by Russell Street, and to the south by East Wells Street. The Village of Unity is allowing the use of the treatment plant north of town and the village parking lot and maintenance building.

##### 1.1.2.2 Description of Threat

A release of hazardous substances is present at the Site due to the presence of chlorinated solvents including PCE, TCE, 1, 2 cis DCE and Vinyl Chloride in the soil and the drinking water. The hazardous substances have migrated from the suspected source and have contaminated the drinking water aquifer that is used by the residents of Unity for their private drinking water source.

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

See Final Site Investigation Plan listed in Document Section

## 2. Current Activities

### 2.1 Operations Section

#### 2015

Carbon Units were changed out with Maher Water Corp., and a licensed plumber from Chet's Plumbing Service on November 4-5, 2015. Nine systems were serviced with new carbon filters and sediment filters were changed, and the water softeners were re-set to alarm in one year for the next scheduled change out in 2016. The carbon units had been sampled the week of Nov 6th and results were received and all post treatment samples were non-detect for Volatile Organic Compounds (VOC's). One additional carbon unit at the former Unity Quick mart was sampled on December 3.

#### 2016

US EPA changed carbon units at 10 residential locations from 10/3/16 to 10/6/16. The carbon units were installed by WDNR in 2014 and USEPA replaced the pre-carbon filter in 2015. The residents were notified by USEPA that the 2016 would be the last change out provided by USEPA because of the limitations on Superfund Removal Actions. The residents were given the contact numbers for Maher water to call and get the pre-carbon cannister changed every year. The cost to change the pre-filter carbon canister is \$800-\$1200.

EPA and WDNR sampled 42 residential wells the week of 10/3/16 to 10/6/16 to monitor the movement of the chlorinated solvent plume. A community meeting was held the first week of November 2016 to update the residents on the sampling results. US EPA and WDNR invited representatives from the Rural water association and non for profit assistance for the Village to assist them in preparing applications for grants and loans for a Public Water Supply.

Collected residential samples, samples from carbon treatment systems and collected samples from the shallow and deep monitoring wells installed by USEPA. The WDNR continues to sample the trailer court well on the south part of Unity on a quarterly basis. This well feeds over 20 pre manufactured homes and the well is a registered public water well under WDNR regulations. A licensed water operator and yearly sampling is required.

2017

USEPA and DNR conducted sampling of 53 residential wells and 27 monitoring wells the Week of August 21-25, 2017. USEPA assisted the WDNR in conducting a Preliminary Site Assessment sampling in conjunction with the removal sampling. 6 private wells samples and 4 monitoring wells samples and a sub-slab sample was collected under the cement floor of the Quick Mart.

In addition, USEPA assisted WDNR during the 2017 sampling event by collecting sub-slab soil vapor, indoor air, ambient air samples which will be used in the preliminary assessment report. That summary is below:

- 2 sub-slab soil vapor samples collected
- 3 indoor air samples collected
- 1 ambient air sample collected
- 2 groundwater samples collected
- 6 drinking water samples collected

2018

USEPA, WDNR, USDA and Davey Engineering met with the Village of Unity on July 16, 2018 to present the preliminary cost estimate and preliminary engineering plans to move forward with a municipal water supply. The USDA presented to the Village of Unity the process for receiving up to \$50,000 grant to develop a preliminary design and more detailed costs for the installation of a Municipal Water Supply. The USDA offered to assist in writing and reviewing the application for the \$50,000 grant and stressed that the application needed to be submitted in the next 30 days to receive funding for FY 18. The Village of Unity did complete the application for the USDA grant but the application was not turned in on time. Therefore the Village will have to apply for FY 19 funding from USDA.

US EPA and WDNR returned to Unity on October 22-25, 2018 to collect private well samples and monitoring well samples and to collect samples from the carbon treatment systems at several homes. At total of 38 samples were collected from residential wells and treatment systems and samples were delivered to CT labs in Baraboo, Wi. A total of 20 monitoring well samples were collected and two samples from investigation derived waste. Results are pending and will be received in November of 2018. A summary report will be prepared by Tetra Tech summarizing the data from the private wells and monitoring wells and will provide a snap shot of the chlorinated solvent plume and any movement of the

WDNR has drafted the ESI sampling report for the preliminary site assessment under the Superfund Remedial program.

US EPA idisposed of two drums of investigation derived waste (December 2018).

USEPA and Tetra Tech are preparing a summary report to review all the data from the October 2018 sampling and to take a look at the location or movement of the chlorinated solvent plume. The data from the October 2018 private well and monitoring well sampling has been validated. Letters were sent to the residents by WDNR project manager Matt Thompson. Maps and Data are available in the Documents section.

The data showed that the carbon units are working, as no detections of chlorinated solvents were seen in the post treatment samples. High levels of chlorinated solvents were detected at the suspected source (the abandoned Unity Quick Mart). Concentrations of chlorinated solvents in the monitoring wells were consistent with the Fall 2017 sampling event.

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

See the Final Site Investigation Plan and Enforcement Confidential Section in the Action Memo.

**2.1.4 Progress Metrics**

**Regional Metrics**

	Miles of river systems cleaned and/or restored	NA
	Cubic yards of contaminated sediments removed and/or capped	NA
This is an Integrated River Assessment. The numbers should overlap.	Gallons of oil/water recovered	NA
	Acres of soil/sediment cleaned up in floodplains and riverbanks	NA
Stand Alone Assessment	Number of contaminated residential yards cleaned up	
	Number of workers on site	
Contaminant(s) of Concern	TCE, PCE, Vinyl Chloride	

**Oil Response Tracking**

Estimated volume	Initial amount released	500 gallons
	Final amount collected	NA
CANAPS Info	FPN Ceiling Amount	
	FPN Number	
	Body of Water affected	NA

**Administrative and Logistical Factors (Place X where applicable)**

Precedent-Setting HQ Consultations (e.g., fracking, asbestos)	Community challenges or high involvement	Radiological
More than one PRP	Endangered Species Act / Essential Fish Habitat issues	Explosives
AOC	Historic preservation issues	X Residential impacts
UAO	NPL site	Relocation
DOJ involved	Remote location	Drinking water impacted
Criminal Investigation Division involved	Extreme weather or abnormal field season	Environmental justice
Tribal consultation or coordination or other issues	Congressional involvement	High media interest
Statutory Exemption for \$2 Million	Statutory Exemption for 1 Year	Active fire present
Hazmat Entry Conducted – Level A, B or C	Incident or Unified Command established	Actual air release (not threatened)
CID confirms Criminal Charges Have Been Filed		

**Green Metrics** **Directions (Delete in report)**

Metric	Amount	Units	Directions (Delete in report)
Diesel Fuel Used		gallons	ERRS fuel use. If possible, can also include estimate of fuel used in trucking subcontracts - estimate via # loads over # miles.
Unleaded Fuel Used		gallons	ERRS fuel use. Don't include GOV fuel - tracked elsewhere.

Alternative/E-85 Fuel Used	0	gallons	ERRS fuel use. Don't include GOV fuel - tracked elsewhere.
Electricity from electric company	NA	kWh	Total used on site
Electric Company Name and Account #	NA		Helps us calculate sources of power and emissions
Electricity from sources other than the electric company	NA	kWh	Onsite energy generation (solar, wind, other)
Solid waste reused	None collected	enter	Material reused onsite. Examples include reusing excavated material for fill, using flyash to treat for metals, using corn cob to dry waste. Feel free to add as many lines as necessary to capture your materials. Use units most applicable.
Solid waste recycled	NONE collected	enter	Material sent off site such as typical recyclables, as well as scrap metal, pallets for cogen, etc. Feel free to add as many lines as necessary to capture your materials. Use units most applicable.
Water Used	1000	gallons	

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Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal
Water from drilling operations	water	4,500 gals		on site carbon treatment	Disposed of in Unity Sewer system after sampling
Soil and Mud	soil	45 tons		Shipped to landfill 12/3/15	Landfilled at Waste Management
Investigation Derived Waste	soil and water	2-55 gal drums		landfill/treatment	SET Environmental

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

WDNR will continue the lead on monitoring and sampling of private wells as needed. WDNR continues to provide bottled water to 2 residents. Tetra Tech will complete the sampling summary letter report.

The WDNR has requested that the Village of Unity move forward with a municipal water supply. The WDNR and USEPA met 3 separate times with the Village and brought USDA and Rural Water Association to begin the application for grants and loans. No movement has been made by the Village of Unity to move forward with the Municipal Water supply.

#### 2.2.1.1 Planned Response Activities

None Planned until requested by WDNR

#### 2.2.1.2 Next Steps

Prepared sampling summary report.  
Provide further assistance if requested by WDNR

#### 2.2.2 Issues

None

## 2.3 Logistics Section

No information available at this time.

## 2.4 Finance Section

### 2.4.1 Narrative

The project ceilings are all listed on the action memo signed on 9/24/15

### Estimated Costs \*

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
ERRS - Cleanup Contractor	\$200,000.00	\$57,127.00	\$142,873.00	71.44%
TAT/START	\$60,000.00	\$55,900.00	\$4,100.00	6.83%
<b>Intramural Costs</b>				
USEPA - Direct	\$15,500.00	\$15,225.00	\$275.00	1.77%
<b>Total Site Costs</b>	<b>\$275,500.00</b>	<b>\$128,252.00</b>	<b>\$147,248.00</b>	<b>53.45%</b>

\* 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

Health and Safety Plan was signed and is on site.

No reported safety issues or accidents

**2.5.2 Liaison Officer**

NA

**2.5.3 Information Officer**

No press officer or press inquiries.

**3. Participating Entities**

**3.1 Unified Command**

NA

**3.2 Cooperating Agencies**

**Wisconsin Department of Natural Resources**

**Village of Unity**

**Wisconsin Department of Public Health**

**Clark and Marathon Public Health**

**ATSDR**

**4. Personnel On Site**

No information available at this time.

**5. Definition of Terms**

No information available at this time.

**6. Additional sources of information**

No information available at this time.

**7. Situational Reference Materials**

No information available at this time.