

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Tuchman Cleaners - Removal Polrep
Initial Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #1
Initial PolRep
Tuchman Cleaners
B5ZU
Indianapolis, IN
Latitude: 39.8369420 Longitude: -86.1210940

To:
From: Shelly Lam, On-Scene Coordinator
Date: 9/20/2012
Reporting Period: September 17 - September 20, 2012

1. Introduction

1.1 Background

Site Number:	B5ZU	Contract Number:	EP-S5-09-05
D.O. Number:	106	Action Memo Date:	8/16/2012
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	9/17/2012	Start Date:	9/17/2012
Demob Date:		Completion Date:	
CERCLIS ID:	INN000510530	RCRIS ID:	IND982425662
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) incident category:
Inactive Production Facility

1.1.2 Site Description

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

1.1.2.1 Location

The Tuchman Cleaners site is located at 4401 N. Keystone Avenue in Indianapolis, Marion County, Indiana, 46205. The Site is located in an area northeast of downtown Indianapolis that is commercial and residential. Approximately 10,000 people live within one mile of the Site. The Fall Creek well field is less than ¼ mile from the Site. Fall Creek, a major tributary to the White River, is located approximately 500 feet south of the Site. The geographical coordinates for the Site are latitude 39.836942 ° north and longitude 86.121094 ° west.

1.1.2.2 Description of Threat

A release of hazardous substances, pollutants, or contaminants is present at the Site. The U.S. Environmental Protection Agency (EPA) documented the presence of hazardous substances as defined by section 101(14) of CERCLA including tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (DCE), vinyl chloride, chloroform, and 1,1,2,2-tetrachloroethane; and pollutants and contaminants as defined by 101(33) of CERCLA.

Hazardous substances are present in soil, groundwater, and soil vapor. Possible exposure routes to hazardous substances include dermal contact with contaminated surface and subsurface soil during excavation activities; inhalation of contaminated air that has migrated through subsurface soil and groundwater, i.e. vapor intrusion; and ingestion of contaminated drinking water. Potential human receptors include future on-Site workers and nearby residents, including children in a day care adjacent to the Site.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

At the request of the Indiana Department of Environmental Management (IDEM), EPA performed Site Assessments January 24 – 27, 2011 and April 9-10, 2012. EPA and the Superfund Technical Assessment and Response Team (START) contractor collected seven subsurface soil samples for volatile organic compounds (VOC) and Toxicity Characteristic Leachate Procedure (TCLP) VOC analysis; ten groundwater samples from existing monitoring wells for VOC analysis; and nine soil gas samples, two of which were

collected on-Site and seven of which were collected off-Site in a residential neighborhood about ¼ mile west of the Site.

EPA compared soil results to May 2012 Regional Screening Levels (RSL) for industrial soil. 1,1,2,2-Tetrachloroethane was detected in one sample at a concentration of 11 mg/kg, above the RSL of 2.8 milligrams per kilogram (mg/kg). All samples were below the Resource Conservation Recovery Act (RCRA) criteria for toxicity. Historical soil analytical results documented that PCE was detected in near-surface soil (1 foot below ground surface (bgs)) at a maximum concentration of 2,400 mg/kg.

Groundwater results were compared to Superfund Removal Actions Levels (RAL), which were developed for contaminated drinking water sites. The groundwater at Tuchman is not a drinking water source but could potentially migrate into the drinking water supply in the Fall Creek well field. Six of the ten monitoring wells sampled contained VOCs above the Superfund RALs; these VOCs included cis-1,2-DCE, PCE, TCE, and vinyl chloride. PCE was detected at a maximum concentration of 49,000 micrograms per liter (ug/L). Historical results indicated that PCE was detected in groundwater at a maximum concentration of 135,000 ug/L in groundwater monitoring well MW-2i. TCE was detected at a maximum concentration of 2,960 ug/L.

Soil gas data was collected at the site and in a residential area to the west. The results were compared to soil gas screening levels for a 10⁻⁴ cancer risk as established in EPA's Vapor Intrusion Screening Level (VISL) spreadsheet, which were then converted from units of micrograms per cubic meter (ug/m³) to parts per billion by volume (ppbv) using standard atmospheric temperature and pressure and the molecular weight of each chemical constituent. Seven of the nine soil gas samples contained VOCs above the VISL screening levels; these VOCs included chloroform, propylbenzene, PCE, and TCE. PCE was detected at a maximum concentration of 36,000 ppbv.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

Tuchman Cleaners operated as a dry cleaner at the Keystone facility beginning in 1953 until 2008 when the parent company declared bankruptcy. Historical operations at the site caused releases of dry cleaning solvents, primarily PCE, to soil and groundwater.

Prior to the construction of the dry cleaning facility, the property was an empty lot. In January 2012, the City of Indianapolis completed demolition of the on-site building to assist with EPA's time-critical removal.

2.1.2 Response Actions to Date

During the reporting period, EPA accomplished the following:

- Marked soil sample locations for an extent-of-contamination survey;
- Conducted an extent-of-contamination survey;
- Collected 95 soil samples, including duplicates and matrix spike/matrix spike duplicate (MS/MSD) samples;
- Installed perimeter fencing;
- Installed an electrical pole;
- Received the site trailer and excavator; and
- Began site security during off-site hours.

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

EPA has issued General Notice Letters and/or 104(e) requests to 11 different parties. Based on the information received, none of the parties is either liable or have the financial resources to conduct the work. Thus, EPA does not intend to issue an order because the former owner is in Chapter 11 receivership.

2.1.4 Progress Metrics

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal
Pending					

R5 Priorities Summary		
This is an Integrated River Assessment.	Miles of river systems cleaned and/or restored	NA
	Cubic yards of contaminated sediments removed and/or capped	NA
	Gallons of oil/water recovered	NA
	Acres of soil/sediment cleaned up in floodplains and riverbanks	NA
Stand Alone	Acres Protected	2.2
	Number of contaminated residential yards cleaned up	0

Assessment	Human Health Exposures Avoided
	Number of workers on site 8
Contaminant(s) of Concern	
Contaminant(s) of Concern	PCE, TCE, cis-1,2-DCE, vinyl chloride, chloroform, 1,1,2,2-tetrachloroethane

2.2 Planning Section

2.2.1 Anticipated Activities

EPA is planning to undertake the following response actions to mitigate threats posed by the presence of hazardous substances at the Tuchman Cleaners Site: develop and implement a Site Health and Safety Plan and a Site Security Plan; remove contaminated soil that poses a direct contact threat; backfill excavated areas with clean impermeable fill; conduct vapor intrusion assessment at residential properties and an adjacent day care; perform vapor intrusion mitigation at properties where relevant indoor air action levels are exceeded in accordance with current EPA guidance; and consolidate and package hazardous substances, pollutants and contaminants for transportation and off-site disposal in accordance with the EPA Off-Site Rule, 40 C.F.R. § 300.440.

2.2.1.1 Planned Response Activities

EPA will suspend operations from September 21 - 26, resuming work on September 27, 2012. During the next reporting period, EPA will begin breaking up and removing concrete that overlays contaminated soil. In addition, EPA will distribute Emergency Contingency Plans to local response agencies.

2.2.1.2 Next Steps

Once concrete has been removed, EPA will begin excavating soil. EPA will use analytical results from the extent-of-contamination survey to segregate hazardous waste from non-hazardous waste using the Contained-In Policy.

2.2.2 Issues

None

2.3 Logistics Section

The Emergency and Rapid Response Services (ERRS) contractor is supplying logistical support.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety

On September 17, 2012, the Health and Safety Plan (HASP) was finalized and signed by all site personnel. All personnel on-site are attending daily health and safety briefings

2.5.2 Liaison Officer

Not applicable (NA)

2.5.3 Information Officer

EPA sent fact sheets and access agreements to nearby residents and businesses to inform them of work at the site and to request access for vapor intrusion sampling. EPA will host a public meeting on October 3, 2012 at 4012 North Rural Street, Indianapolis at 6:30 p.m. In addition, On-Scene Coordinator (OSC) Lam conducted an interview with Fox 59 News about upcoming work at the site on September 4, 2012.

3. Participating Entities

3.1 Unified Command

NA

3.2 Cooperating Agencies

Agency for Toxic Substances and Disease Registry (ATSDR)
IDEM
Marion County Public Health Department
City of Indianapolis
Citizens Energy

4. Personnel On Site

The following personnel were on-site during the reporting period.

Agency	Position	# Personnel
EPA	OSC	1
ERRS	Response Manager	1
	Equipment Operator	1
	Laborer	3
START		1
Subcontractors	Driller	1

Electrical	2
Trailer delivery	2

5. Definition of Terms

ATSDR	Agency for Toxic Substances and Disease Registry
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DCE	Dichloroethene
EPA	Environmental Protection Agency
ERRS	Emergency and Rapid Response Services
HASP	Health and Safety Plan
IDEM	Indiana Department of Environmental Management
mg/kg	milligrams per kilogram
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	Not Applicable
OSC	On-Scene Coordinator
PCE	Tetrachloroethene
PoIRep	Pollution Report
ppbv	parts per billion by volume
PRP	Potentially Responsible Party
RAL	Removal Action Level
RCRA	Resource Conservation Recovery Act
RSL	Regional Screening Levels
START	Superfund Technical Assessment and Response Team
TCE	Trichloroethene
TCLP	Toxicity Characteristic Leachate Procedure
ug/L	micrograms per liter
ug/m ³	micrograms per cubic meter
VISL	Vapor Intrusion Screening Level
VOC	Volatile Organic Compounds

6. Additional sources of information

6.1 Internet location of additional information/report

For additional information, refer to www.epaosc.org/tuchman or <http://www.epa.gov/region5/cleanup/tuchman/index.html>.

6.2 Reporting Schedule

The next Pollution Report (PoIRep) will be submitted the week of September 24, 2012.

7. Situational Reference Materials

NA