

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Annandale PCE - Removal Polrep
Initial and Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region III

Subject: POLREP #1
Initial and Final
Annandale PCE
A3QY
Annandale, VA
Latitude: 38.8249389 Longitude: -77.1728206

To:
From: Charlie Fitzsimmons, FOSC
701 Mapes Rd., Ft. Meade, Md. 20755
Date: 3/31/2011
Reporting Period: November, 2010 thru March, 2011

1. Introduction

1.1 Background

Site Number:	A3QY	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Assessment
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:		Start Date:	
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Removal Site Evaluation request for assistance from Virginia Department of Environmental Quality (DEQ). Request was made to EPA Region III FOSC Fitzsimmons on 10/19/2010.

1.1.2 Site Description -

The site is in the vicinity of Randolph Drive and Little River Turnpike in the City of Annandale, Fairfax County, Commonwealth of Virginia. The site is residential and is in close proximity to a commercial dry cleaner establishment. The dry cleaner (Wall Street Cleaners) is located at 6701 Little River Turnpike. The site was identified by the DEQ as three residences along Randolph Drive. Specifically 4605 Randolph, 4609 Randolph and 4613 Randolph Drive due to their proximity to the dry cleaner and other commercial establishments along Little River Turnpike.

1.1.2.1 Location

Intersection of Little River Turnpike and Randolph Drive, Annandale, Fairfax County, Virginia.

1.1.2.2 Description of Threat

Volatile organic compounds that migrated off site via groundwater into residential zone which may impact indoor air quality as a result of vapor intrusion pathway. Targetted volatiles based on DEQ studies (RI dated 10/18/2010) to include benzene, chloroform, trichloroethene, tetrachloroethene (PCE), 1,1-dichloroethene, xylene and vinyl chloride.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Two separate sample events were performed on November 17, 2010 and January 25, 2011 respectively. Both events included indoor air (IA) samples from the three residences described previously. The January 25, 2011 event also included sub slab (SS) soil gas samples from 4605 Randolph and 4613 Randolph. The homeowner at 4609 Randolph refused allowance of sub slab sampling. Both events also included ambient (outdoor) air sampling. For more specific information regarding sample location and numbers of samples

please refer to the event Trip Reports generated by EPA Region III START contractor (Weston Solutions) dated 01/05/2011 and 3/16/2011 respectively.

Both sample events revealed indoor air detections of all vocs identified as target compounds for this evaluation. However the levels detected were found to be below the EPA regional removal screening levels for the individual compounds. The regional removal screening level for PCE in indoor air is established at 41ug/m3. Sample results were generally in the range of 3 to 12ug/m3. In addition the sub slab sample results, which would provide indication of an identifiable source of PCE vapor intrusion from the sub surface, were detected at peak of 2.5ug/m3. This therefore indicates that the low levels of the targetted vocs detected in the indoor air are most probably from other indoor air sources.

To initiate a Vapor Intrusion removal action, a complete VI exposure pathway must be documented, meaning that SS and IA screening levels are exceeded based on multiple lines of evidence. A completed exposure pathway documents an actual threat under the NCP. Based on the results of sampling the FOSC cannot conclude that a removal action is warranted at this time.

On March 25, 2011 the FOSC met with the three homeowners and DEQ representative to discuss the findings, and discuss any future actions to be performed by DEQ. The FOSC asserted that should additional information arise from DEQ tests indicating other sources of potential VI, the FOSC would be willing to re evaluate.

2. Current Activities

2.1 Operations Section

No information available at this time.

2.2 Planning Section

No information available at this time.

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

No information available at this time.

3. Participating Entities

No information available at this time.

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.