

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Green Lake Chemical House - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region X

Subject: POLREP #5
Progress
Green Lake Chemical House
10ND
Seattle, WA
Latitude: 44.6751000 Longitude: -122.3230000

To:
From: Jeffry Rodin, OSC
Date: 4/11/2014
Reporting Period: 4/11/14 through 4/12/14

1. Introduction

1.1 Background

Site Number:	10ND	Contract Number:	EP-07-13-07
D.O. Number:		Action Memo Date:	4/3/2014
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	4/7/2014	Start Date:	4/7/2014
Demob Date:		Completion Date:	
CERCLIS ID:	WAN00101159	RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

1.1.2 Site Description

On March 25, 2014, the EPA received information from King County Hazardous Waste Program regarding the improper storage of chemicals within a residential neighborhood in the City of Seattle. Photographs taken by or in cooperation with members of the Seattle Fire Department (SFD) and King County Hazardous Waste Program (King Co.) were provided to EPA. The photographs depict a number of containers with a variety of hazardous on the Property. Based on the labels in these photographs, the chemicals on the Property appear to include elements or compounds of arsenic, benzidine, cadmium, hydrochloric acid, nitric acid, phosphoric acid, sodium hydroxide, sodium nitrite, carbon tetrachloride, and vanadium pentoxide.

For a full site description see POLREP 1 (Initial POLREP)

1.1.2.1 Location

The residence is located within the City of Seattle, Green Lake neighborhood. The Green Lake neighborhood is a high density residential area. Adjacent neighboring homes are characterized by narrow lot lines. The residence is also located less than .25 miles from the 1-5 corridor.

1.1.2.2 Description of Threat

Numerous chemical containers are present on the property and within the basement of the residence. The amount of containers and debris makes accessing these areas difficult. Many of the chemicals on site are specifically listed as a hazardous substance subject to CERCLA, 40 C.F.R. Table 302.4. The EPA determined that the improperly stored chemicals and other hazardous substances pose an actual or potential threat of release to the environment. Many of the chemicals are old and expired, with negative value. Many chemicals are not properly stored and incompatible chemicals are stored adjacent to each other.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

There have been no known government or private cleanup actions undertaken at the Site to date.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The EPA will direct its contractor to continue to characterize the chemicals and containers at the Site for disposal purposes. The basement has been emptied of all chemical containers (over 1,800). The OSC and START contractor conducted a walk through of the residence to ensure that all chemical containers have

been removed, remove perishable food items from the kitchen, and return a watch and compass which had been located in a bag with chemical containers in the basement. The chemicals and low pH mineral samples have been removed from the garage and personnel effects of the residents have been returned. Arrangements will be made to have U-Haul storage pods removed from the street.

2.1.2 Response Actions to Date

See Initial POLREP.

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

2.1.4 Progress Metrics

The following table indicates the amount of chemicals processed by date:

Date	HazCat Completed	Inventory Completed
4/7/2014	78	169
4/8/2014	174	359
4/9/2014	141	424
4/10/2014	284	847
4/11/2014	221	389
4/12/2014	301	485
TOTAL	1199	2673*

* The Inventory Completed total includes the containers processed through HazCat.

The following table displays the containers that have been prepared for off-site transportation and disposal:

Date	Overpack Drums Shipped	Overpack Drums In Progress	Cubic Yard Box Shipped
4/7/2014	0	17	0
4/8/2014	12	26	6
4/9/2014	10	18	3
4/10/2014	19	27	8
4/11/2014	18	35	6
4/12/2014	0*	37	0
TOTAL	59	160	23

* No shipment on 4/12/14. 10 Drums prepared for shipment.

2.2 Planning Section

2.2.1 Anticipated Activities

Segregation of chemicals from the interior of the house on the main floor living space and in the attic and the garage.

2.2.1.1 Planned Response Activities

Segregation of chemicals from the interior of the house on the main floor living space and in the attic and the garage. Preparation for off-site disposal and transportation of removed chemicals.

2.2.1.2 Next Steps

Continue to segregate chemicals outside of the home.

2.2.2 Issues

Hazard Characterization and Chemical Issues:

- A rare Aroclor (triphenol) 5460 was discovered in the basement. This requires special handling for off-site transportation and disposal.
- A PCB (Aroclor 1270) was discovered in the basement. These materials must be specially packaged for off-site transportation and disposal.
- Additional containers of hydrofluoric acid and hydrazine were discovered in the basement. These chemicals require special handling during off-site transportation and disposal.
- A corroded container of sodium metal was discovered in the basement. The outer 1/2 inch layer of sodium metal had been oxidized. When encountered, the container was packed in a damp cardboard box located on the floor in one of the pathways present in the basement. The sodium metal has been placed in a plastic bag and immersed in mineral oil to reduce the potential for reaction with atmospheric moisture. This chemical requires special packaging for off-site transportation and disposal.
- Bromine, a Zone A poison, was encountered in the refrigerator in the basement. This chemical is considered acutely toxic. This chemical requires special handling for off-site transportation and disposal.
- Amines & Ammonium Hydroxide were discovered in the refrigerator in the basement. START utilized Level B personal protection equipment while sampling & during hazard categorization of the material. These chemicals will require special handling for off-site transportation and disposal.

Removal and Staging Issues

- A container of low radioactivity uranyl nitrate was transported by WA Department of Ecology to be transferred to WA Department of Health for final disposition.

Miscellaneous Issues:

- A field-portable X-Ray Fluorescence instrument was used to evaluate materials that appeared to be mineral samples that were found in the garage. There were more than 100 of the mineral samples and many of the samples did not contain significant concentrations of metals. However, mineral samples with the sand-like consistency were identified to have a low pH and arsenic concentrations and will be shipped off-site for disposal.
- A narrative video of the site activities was created to document site conditions.
- The van has not been accessed and the contents need to be assessed to determine if chemicals are present. A compressed gas cylinder has been observed through the back window.

2.3 Logistics Section

Incoming US Postal Service delivery was accepted by the EPA OSC and delivered to the homeowner.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

Safety at the site is being coordinated by the Emergency and Rapid Response Services (ERRS) contractors under a unified Site-Specific Health and Safety Plan. A Health and Safety meeting was conducted by ERRS and attended by EPA personnel, Superfund Technical Assessment and Response Team (START) personnel, Global Diving Personnel, and Philips personnel.

2.5.2 Liaison Officer

One EPA Community Involvement Coordinator (CIC) is present at the site. Fact sheets were distributed today to houses in the neighborhood.

2.5.3 Information Officer

One EPA Public Information Officer (PIO) is at the site to coordinate media relations and neighbors.

3. Participating Entities

3.1 Cooperating Agencies

4. Personnel On Site

Friday (4/11/14)

- 1 - EPA PIO
- 1 - EPA CIC
- 2 - EPA On-Scene Coordinators
- 1 - EPA Attorney
- 1 - EPA Liaison (Relocation Support)

- 3- Washington Department of Ecology
- 9 - START contractors
- 4 - ERRS contractors
- 4 - Philips Services personnel (a subcontractor to ERRS)
- 1 - Social Worker (a subcontractor to ERRS)

Saturday (4/12/14)

- 1 - EPA PIO
- 1 - EPA CIC
- 2 - EPA OSCs
- 4 - Civil Support Team Members
- 9 - START Contractors
- 4 - ERRS Contractors
- 4 - Philips Services personnel (a subcontractor to ERRS)

A total of 1,170 hours have been spent on-site since the mobilization on 4/7/12. These hours do not include EPA Regional Council, CICs, PIOs, other agencies that have been on-site. It does not include hours spent by EPA contractors off-site.

5. Definition of Terms

START - Superfund Technical Assessment and Response Team
ERRS - Emergency and Rapid Response Services
CIC - Community Involvement Coordinator
PIO - Public Information Officer
SFD - Seattle Fire Department

6. Additional sources of information

6.1 Internet location of additional information/report

Documents and additional information on the site can be found at the following location:

www.epaossc.org/GreenLKChemHouse

6.2 Reporting Schedule**7. Situational Reference Materials**

No information available at this time.