U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Beta Chem Laboratory - Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region VII

Subject: **POLREP #12**
Progress
Beta Chem Laboratory
B783
Lenexa, KS
Latitude: 38.9473349 Longitude: -94.7535919

To:
From: Doug Ferguson, OSC
Date: 8/11/2014
Reporting Period: July 28-August 8, 2014

1. Introduction

1.1 Background

Site Number:	B783	**Contract Number:**	EP-S7-13-05
D.O. Number:	0029	**Action Memo Date:**	4/17/2014
Response Authority:	CERCLA	**Response Type:**	Time-Critical
Response Lead:	EPA	**Incident Category:**	Removal Action
NPL Status:	Non NPL	**Operable Unit:**	
Mobilization Date:	5/5/2014	**Start Date:**	5/5/2014
Demob Date:		**Completion Date:**	
CERCLIS ID:	KSN000705028	**RCRIS ID:**	
ERNS No.:		**State Notification:**	State Referred the Site
FPN#:		**Reimbursable Account #:**	

1.1.1 Incident Category

Time-Critical Removal Action of hazardous substances, including assessment for radiation contamination.

1.1.2 Site Description

Beta Chem Laboratory is a defunct radio-pharmaceutical synthesis lab.

1.1.2.1 Location

The Site is located at 14410 West 100th Street, Lenexa, Johnson County, Kansas. The Site is located in an industrial park. The Site is within a portion of a building in the Noon Industrial Park.

1.1.2.2 Description of Threat

See POLREP number 1.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See POLREP number 1.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

A total of 1,172 chemical containers have been inventoried at the Site, most of which have intact labels believed to accurately reflect their contents. Of these 1,172 containers, 276 had hand written, indecipherable or missing labels. The contents of these containers were field screened and assigned hazard groups based on their properties. Virtually all of the surfaces in the lab, including the chemical containers, have elevated counts of radiation as measured with the Ludlum 2241 Meter equipped with a 44-9 "pancake" probe. Additionally, several radiation source materials have been identified and segregated at the Site. Liquid scintillation testing of the contents of containers confirmed a number of the chemicals have radioactive contamination mixed in with them.

Air monitoring results have not detected significant concentrations of volatile organic compounds as

measured with a photoionization detector. Additionally, the oxygen concentrations were found to remain constant at 20.9% and the percent of the lower explosive limit was zero. There were not any significant detections of airborne radiation contamination in samples collected onto air filters counted by the Ludlum Model 3030 Drawer Alpha-Beta Counter.

2.1.2 Response Actions to Date

Actions conducted during the period of July 28-August 8, 2014:

- Data has been received from all but 258 of the 1,034 samples submitted for liquid scintillation counting.
- Bids for disposal of radioactive sources are being solicited as the data for the waste stream has been received.

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

PRPs have been identified for the Site, including the operator of the facility and the owners of the building.

2.1.4 Progress Metrics

The waste streams for the site are listed below. Ongoing research by site personnel and disposal companies will determine the final waste streams.

Waste Stream	*Medium*	*Quantity*	*Manifest #*	*Treatment*	*Disposal*
waste flammable liquids, organic	liquid	30 gallons	011814214		
flammable	solid				
waste, corrosive, acid, inorganic	liquid	2 gallons	011814187		
waste, corrosive, base, inorganic	liquid	2 gallons	011814187		
waste, corrosive, base, inorganic	solid	2 gallons	011814187		
waste, corrosive, acid, organic	liquid	2 gallons	011814187		
oxidizer	solid				
oxidizer	liquid				
organic peroxide	solid				
water reactive	solid				
water reactive	liquid				
air reactive	solid				
mixed waste	s, l, g				
waste toxic, liquid	liquid	5 gallons	011814214		
radioactive	s, l				

2.2 Planning Section

2.2.1 Anticipated Activities

Continue to segregate chemicals by disposal waste streams. Perform compatiblity study on composite samples from each waste stream. Screen waste streams to characterize radiation content of chemicals inside and outside of the container. Submit samples from bulked waste streams for radiation and chemical characterization.

2.2.1.1 Planned Response Activities

Bulk or overpack chemicals waste streams based on disposal criteria, determine acceptable levels of radiation contamination for mixed versus hazardous waste, dispose of hazardous materials off site. Complete radiological assessment of the Site.

2.2.1.2 Next Steps

Determine best disposal method based on bids from disposal contractors.

2.2.2 Issues

N/A

2.3 Logistics Section

N/A

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

Doug Ferguson, EPA
Aaron Roski, ERRS
Danny O'Connor, START

2.5.2 Liaison Officer

Doug Ferguson

2.5.3 Information Officer

Chris Whitley

3. Participating Entities

3.1 Unified Command

N/A

3.2 Cooperating Agencies

Kansas Department of Health and Environment

4. Personnel On Site

Doug Ferguson, EPA OSC
Danny O'Connor, EPA START
Aaron Roski, EPA ERRS

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.