

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Markham Dump - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #2
Markham Dump
B5WK
Markham, IL
Latitude: 41.5979794 Longitude: -87.6728209

To:
From: Steven Faryan, On-Scene Coordinator
Date: 4/28/2011
Reporting Period: 4/21/2011 to 4/28/2011

1. Introduction

1.1 Background

Site Number:	B5WK	Contract Number:	EP-S5-09-05
D.O. Number:	0061	Action Memo Date:	3/11/2011
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	4/11/2011	Start Date:	4/11/2011
Demob Date:		Completion Date:	
CERCLIS ID:	ILN000510534	RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Inactive Open Dump

1.1.2 Site Description

See POLREP #1

1.1.2.1 Location

See POLREP #1

1.1.2.2 Description of Threat

See POLREP # 1

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See POLREP#1

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

US EPA, START and EERS contractor ER have been on site since April 11, 2011 conducting the time critical removal action. The scope of work includes collection, staging and sampling and disposal of containers, drums and super sacs of chemicals that were abandoned at the site. The scope includes excavation, treatment and disposal of lead contaminated soil that was resultant of battery breaking operations and illegal disposal.

2.1.2 Response Actions to Date

USEPA and their contractors have staged and sampled 115 containers. The containers vary from 55 gallon drums, super sacs of solid chemicals and 5 -35 gallon drums and buckets. The containers were sampled in Level B personnel protection. Samples will be run for HAZCAT and compatible samples will be prepared and sent out to the MicroBac laboratory for disposal analysis.

The lead soil excavation area encompasses a 200 foot by 200 foot area that has been broken into 40 foot grids. Battery casings from breaking operations were observed in this area and lead levels have been detected as high as 10,000 ppm by using the hand held XRF unit. In addition, some of the soil contains suspected paint waste as color of the soil was observed to be green, yellow, red. Samples were collected and sent to the lab for analysis.

The excavation of lead contaminated soil has been completed and the soil has been and stockpiled and sampled to set up disposal. Perched ground water was encountered in the excavation area at 12-16 inches below ground surface. The excavation was stopped at this point and battery casings are still visible in

some areas. A plan is being developed to provide a barrier over these areas where the casings and residual contamination will remain.

Samples were collected from the piles and a treatability study will be conducted using different percentages of treatment chemicals. Lime Kiln Dust, Enviro Blend and Free Flow will be evaluated as treatment chemicals if the material needs to be chemically fixated.

While excavating the lead contaminated soil, ground water was encountered and the excavation had to be halted. USEPA will propose to use a barrier over the bottom of the excavation area and backfill with fill. The City of Markham has offered free backfill from a water and sewer project on 159th Street which is two blocks away. A cost estimate will be put together to place the geo fabric over the excavation area and truck the clean dirt from the clean fill pile which is 2 blocks from the site.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs) See Enforcement Confidential Addendum in Action Memorandum.

2.1.4 Progress Metrics:

**115 Drums, containers and supersacs staged, sampled and Hazcat analysis completed
estimated 6,000 cubic yards of lead soil excavated and staged
125 empty drums and containers cut and awaiting disposal**

2.2 Planning Section

2.2.1 Anticipated Activities

Hazcat analysis has been completed on the 115 samples collected from the drum and container samples. Samples of the compatible waste streams will be composited together and send to the lab for disposal analysis. Compatible Waste Streams will be re-containerized to minimize drums and assure DOT compliance for shipping.

Prepare and Submit plan to place a barrier over the lead excavation area.

Consolidate waste streams into drums and set up disposal facilities

Continue to cut empty containers

Submit a request for proposal to disposal company's for disposal of soil, liquids and solids.

Fixate and Dispose of soil at a CERCLA compliant facility

Dispose of liquids and solids and a CERCLA compliant facility.

Place barrier and clean soil over excavated area

2.2.1.1 Planned Response Activities

Complete above tasks. The site will be shut down for several days during the first and second week of May to wait for analytical results and bids for disposal.

2.2.1.2 Next Steps

Re-mobilize and complete the above tasks. Turn site back over to the City of Markham, IEPA and Illinois Attorney General's office.

2.2.2 Issues

The heavy rains and lack of drainage on site and site conditions has caused flooding and a perched water table has made excavation of all of the lead impacted soil impossible. IEPA has been contacted and has been on site to discuss placing a barrier and clean soil over the impacted area. Institutional Controls would be place on that area and entered into the deed.

2.3 Logistics Section

NA

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

Site HASP is on-site and daily safety plan meetings are being conducted. HASP was modified to allow Level D personnel protection in the lead excavation zone. No dust has been detected with personal data ram. Sample pumps have been ordered to monitor dust and lead in the work zone. Lead blood samples will be collected from personnel at job end.

2.6 Liaison Officer

The epaos.org web site is being maintained and information is posted and made public. A web site will be opened on the epa.gov web site.

2.7 Information Officer

3. Participating Entities

3.1 Unified Command

3.2 Cooperating Agencies

IEPA
Illinois Attorney General's Office
Village of Markham

4. Personnel On Site

EERS: 1 Response Manager, 2 Techs, 2 Operators
START: 1
USEPA: 1 OSC, Fields personnel on-site as necessary
1 Operator demobilized on Tuesday April 26,2011

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.