

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V

**Subject:** POLREP #4  
Markham Dump  
B5WK  
Markham, IL  
Latitude: 41.5979794 Longitude: -87.6728209

**To:**  
**From:** Steven Faryan, On-Scene Coordinator  
**Date:** 6/9/2011  
**Reporting Period:** to 6/09/11

## 1. Introduction

### 1.1 Background

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

#### 1.1.1 Incident Category

Abandoned Open Dump

#### 1.1.2 Site Description

See POLREP # 1-3

##### 1.1.2.1 Location

See POLREP # 1-3

##### 1.1.2.2 Description of Threat

See POLREP # 1-3

#### 1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See POLREP # 1 -3

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

#### 2.1.2 Response Actions to Date

U.S EPA and EERS contractor ER have staged, sampled and run HazCat fingerprinting on 110 containers. The compatible waste groups, corrosive liquids, corrosive solids, acids, combustible liquids, base neutral liquids, base neutral solids have been composited in DOT approved containers. A Request for Proposal was sent out to disposal contractors and bids are due Friday June 10,2011.

The corrosive solid material has been staged on a liner and have been covered with plastic. The corrosive solids were sampled and results indicated no hazardous constituents. The corrosive solids and cut drums and containers will be transported via a dump truck and will be consolidated into the soil pile and disposed of at the landfill.

A request for proposal was awarded to Homewood Disposal for transportation and disposal of the estimated 1,500 tons of stabilized soil ,cut containers, PPE and other non-hazardous solids. The Newton County Landfill will be used for disposal. This landfill is in compliance with the CERCLA off-site disposal policy.

A treatability study was conducted on soil pile (#1, #2,#3, and #4) was conducted with fixation agents EnviroBlend, Free Flow and Inland Steel Lime Dust were used to treat the soil. The Free Flow 100 (phosphate) agent and Inland Steel bag house dust worked the best at stabilizing the metals. A cost analysis was conducted and the Free Flow 100 was chosen as the most cost effective since on only 3%

blend was needed to fixate the soil and this will lower the volume of soil being transported and disposed of off site.

EERS contractor Environmental Restoration began stabilizing the soil piles on Monday June 6, 2011 utilizing the Free Flow 100. The Free Flow comes in 1 ton super sacs that has a shoot on the bottom to facilitate adding the material to the soil piles. A mix of 66 1 ton buckets to 2 one ton bags of Free Flow was used and the material was mixed thoroughly. Piile # 4 which is approximately 1,000 tons was completed on Tuesay June 7. Additional excavation was completed in the center of the 200 by 200 foot area where additional battery casings were observed. Additional excavation was completed in the area where a suspected paint waste was disposed of and the material is a greenish, yellow, and red color. This soil was stabilized with the Free Flow 100 material.

Heavy rains on Thursday June 9, 2011 have delayed the completion of the fixation of piles # 3 and # 2. Once these piles are mixed with the Free Flow 100, all of the piles will be sampled and TCLP analysis will be run on the soil. When the piles are determined to be non-hazardous, transportation and disposal will be initiated.

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

See Enforcement Confidential Section in Action Memo

### 2.1.4 Progress Metrics

| <i><b>Waste Stream</b></i> | <i><b>Medium</b></i> | <i><b>Quantity</b></i> | <i><b>Manifest #</b></i> | <i><b>Treatment</b></i> | <i><b>Disposal</b></i> |
|----------------------------|----------------------|------------------------|--------------------------|-------------------------|------------------------|
|                            |                      |                        |                          |                         |                        |
|                            |                      |                        |                          |                         |                        |
|                            |                      |                        |                          |                         |                        |

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

Continue consolidation of comatible waste streams

Collect Samples for Disposal Parmaters from consolidated Waste Streams

Send out Request for Proposal for disposal of non-hazardous solids, hazardous solids and drums containing consolidate waste streams

Conduct Additional Treatability on Stock piled Hazardous Soil

Evaluate perched ground water conditions in excavation area and prepare cost estimate if water has to be treated. A filtrate sample was analyzed in the lab using a 5 micron filter. If successful, bag filters may be used on site to dewater the excavation area if water levels do not recede.

Secured site and De-Mobilize until sub-contract for disposal is awarded and waste disposal approvals have been obtained. The site will be demobilized on May 6, 2011. The site will be secured and the City of Markham Police will provide security.

#### 2.2.1.1 Planned Response Activities

Continue to stabilize the soil piles with a 3% blend of Free Flow 100. Sample piles to determine if the TCLP analysis is below regulatory levels. Award contract for disposal of the drums and containers.

Consolidate non-hazardous solids and cut containers into the soil pile for disposal.

The excavation area will be backfilled with clean fill from a City of Markham sewer project that was completed 2 blocks from the site. The material will be transported to the site and used as a cover on the excavation area. The removal of the lead and chromium contaminated soil will be conducted to depth allowed by the intrusion of perched ground water. At that level the excavation will have to be stopped due to ground water and surface water filling the excavation area. It is projected that the 900 ppm Industrial standard for lead will not be achieved in the excavation area. Snow fence or another type of marking material will be put down to delineate the excavation depth and clean fill will be graded over the excavation area. The City of Markham will be required to place a deed restriction detailing the area where the contaminated soil was not able to be removed. Any future development of this area will have to be planned to not disturb this soil unless it is removed and disposed of at a approved landfill. US EPA will meet with IEPA and the City of Markham to brief them on the excavation area.

#### 2.2.1.2 Next Steps

Award sub-contracts for disposal of all hazardous materials, treated waste, solids, cut containers and miscellaneous bottles, aerosol cans and other items.

Dispose of stock piled soil, cut containers, PPE, and inorganic salts at a Subtitle D Landfill (Newton County Landfill in Indiana) which is in CERCLA off-site disposal policy.

Dispose of Drums and containers containing acid liquids, dye, cleaning agents, oil and combustible liquids and caustic liquids.

Backfill excavation with clean fill. The City of Markham has allowed USEPA to use the clean fill stockpiled on 159th and Western. Samples of the fill were collected and the pile was surveyed to determine volume. The fill was determined to be clean and will be used for the backfilling of the excavation area.

### 2.2.2 Issues

High Water table in the excavation area caused a shut down in removal activities. US EPA will not be able to remove all of the contaminated soil and the excavation can only be conducted down to the level where the perched water begins filling the area. A marker such as snow fence will be used to delineate

the material left in place and clean fill will be graded over the area to prevent direct contact. A deed restriction will have to be placed in the title by the City of Markham and any future development of the property will have to consider this in the planning and design.

## **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 above action levels with personnel data ram. Air Sample pumps have been deployed to monitor dust and lead in the work zone. Lead blood samples will be collected from personnel at job end.

### **2.6 Liaison Officer**

NA

### **2.7 Information Officer**

#### **2.7.1 Public Information Officer**

A web site has been established on the US EPA Region 5 web site to keep the public and press informed on the progress of the removal action

#### **2.7.2 Community Involvement Coordinator**

A press briefing and fact sheet will be issued by US EPA Region 5 when the project nears completion. This is project for the end of June 2011.

## **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 Equipment Operators, 1 Cost Accountant  
START: 1  
USEPA: 1 OSC, Fields personnel on-site as necessary

## **5. Definition of Terms**

No information available at this time.

## **6. Additional sources of information**

### **6.1 Internet location of additional information/report**

IEPA Web Site: <http://www.epa.il.us/>

USEPA Web Site:

<http://www.epa.gov/region5/cleanup/markham/index.html>

### **6.2 Reporting Schedule**

## **7. Situational Reference Materials**

No information available at this time.