

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #6
Markham Dump
B5WK
Markham, IL
Latitude: 41.5979794 Longitude: -87.6728209

To:
From: Steven Faryan, On-Scene Coordinator
Date: 6/17/2011
Reporting Period: 6/01/11 to 6/17/11

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:	Removal Action
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
Abandoned Open Dump

1.1.2 Site Description

See POLREP # 1-5

1.1.2.1 Location

See POLREP # 1-5

1.1.2.2 Description of Threat

See POLREP # 1-5

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See POLREP # 1 -5

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 analysis 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. The disposal was awarded to Phillips Services who will broker the waste to different facilities for disposal. Profiles were prepared and submitted for approval. Once the disposal facilities are identified then CERCLA off-site compliance checks will be completed.

The non hazardous soils, cut drums and soil that was scraped up around the drums were transported to the soil load out pile for consolidation. A roll off box truck and driver were utilized to transport the material to the soil pile and the material was consolidated and will be disposed of with the soil at Newton County Landfill.

The excavated soil that contained lead and chromium above the regulatory levels was stabilized with the Free Flow 100 material at a 3% blend and was mixed with the tracked excavator. Samples were collected on June 10 and sent to Micro Bac for analysis. Results were received on June 14 and all of the soil piles 2, 3 and 4 were under regulatory levels rendering the material as Special Waste. Transportation and Disposal was thus scheduled with Homewood Disposal who will transport and dispose of the material at Newton County Landfill.

The loading, transport and disposal of the treated soil will continue until all of the soil is disposed. This is projected to be June 24, 2011. The excavated grids will not be able to be excavated to the industrial clean up standard of 800 ppm because a perched ground water table has been encountered.

IEPA was on site on Wednesday, June 15, 2011. US EPA presented the option of covering the excavation area with snow fence and clean fill to prevent a direct contact threat. IEPA representatives Chuck Grigalowski and Chris Holy were on site. IEPA has a current order with the City of Markham to provide security at the site and prevent any further dumping. IEPA will utilize this order to require the City of Markham to place the proper deed restriction in the title for the lead and chromium excavation area.

The option to remove the direct contact threat in the lead and chromium excavation area will be to lay down a marker such as snow fence. Clean soil will be transported from 159 the street soil pile and placed over the excavation area and snow fence to provide a barrier to prevent any direct contact threat. The City of Markham will place a deed restriction on the excavation area to minimize disturbance and prevent excavation of the material unless it is disposed of.

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

See Enforcement Confidential Section in Action Memo

2.1.4 Progress Metrics

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal
Special Waste, Stabilized Soil, Cut Drums, inorganic salts	soil	396 tons	1-18	On Site Free 3% Free Flow 100	Republic Services, Newton County Landfill, Brook, Indiana

2.2 Planning Section

2.2.1 Anticipated Activities

Continue disposal of all of the stabilized soil piles, cut drums, inorganic salts and debris. Schedule disposal of the drums and containerized waste with Phillips Services. Profiles have been prepared and are awaiting approval. The waste will be disposed of a several different facilities and CERCLA off-site compliance checks will be made once the facilities are identified. Purchase marker/barrier product and place in excavation area and cover with clean back fill.

2.2.1.1 Planned Response Activities

Dispose of all of the drums and containers at a CERCLA compliant off-site facility. 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 800 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.

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. Phillips Services has been contracted to dispose of drums,containers and overpacks containing acid liquids, caustic liquids, oxidizers, dye, cleaning agents, oil and combustible liquids. Grade, place marker barrier (snow fence for fabric) and backfill excavation with clean fill to prevent the direct contact threat. The City of Markham will allow use of 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 has prevented the removal of all of the lead and chromium contaminated soil to levels below the Industrial Standards. A marker fabric 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 any direct contact threat. 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. IEPA has a current order with the City of Markham for security at the site and this will be utilized to have the City place a deed restriction on the Title for the excavation area where some contamination will remain due to the high water table.

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 and chromium in the work zone. Lead and chromium results were received on air samples and results were below threshold limit values for lead and chromium. 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 event has been scheduled for the morning of June 23, 2011. IEPA, USEPA, the City of Markham and Illinois Attorney General's office and Jesse Jackson Jr. congressional office have been notified of the event and invited to participate.

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.