

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Portage Creek Area - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #17
Progress
Portage Creek Area
059B05
Kalamazoo, MI
Latitude: 42.2839750 Longitude: -85.5791570

To: Mark Mills, Michigan DNR
Daria Devantier, MDEQ
Debbie Jung, City of Kalamazoo
Lisa Williams, U.S. FWS
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Valincia Darby, Department of Interior

From: Craig Thomas, On-Scene Coordinator

Date: 8/31/2012

Reporting Period: 8/18/2012 - 8/31/2012

1. Introduction

1.1 Background

Site Number:	059B05	Contract Number:	EP-S5-08-02
D.O. Number:	0087	Action Memo Date:	7/5/2011
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	NPL	Operable Unit:	05
Mobilization Date:	9/26/2011	Start Date:	8/30/2011
Demob Date:		Completion Date:	
CERCLIS ID:	MID006007306	RCRIS ID:	NA
ERNS No.:		State Notification:	Yes
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Fund-lead removal action

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

Dredging operations began in SA5D (Upjohn Park) on August 20. Contaminated sediment removal and backfilling was completed in grids SA5D-1 to SA5D-8 by August 31. Visible gross contamination and elevated PCB test results at target excavation depths (see Sections 2.1.2, 2.2 and 2.2.2) required additional excavation to meet the clean-up performance standard. Preparations are underway to begin dredging operations in SA5C immediately following completion of dredging/backfilling operations in SA5D.

2.1.2 Response Actions to Date

From August 18 to August 31, EPA, START and ERRS contractors conducted the following activities:

Site Activities - SA5D & SA5C

- Constructed sand-bag coffer dam to facilitate groundwater de-watering between the Upjohn Park footbridge and Crosstown Parkway;

- Removed the Upjohn Park footbridge to facilitate access for contaminated sediment excavation operations;
- Extended temporary fencing from the Upjohn Park footbridge to Crosstown Parkway;
- Fenced off sensitive drip line areas for trees in SA5C;
- Installed groundwater dewatering system from the Upjohn Park footbridge to Crosstown Parkway; and
- Excavated contaminated sediments from grids SA5D-1 to SA5D-8.

GRID	TOTAL ESTIMATED EXCAVATION DEPTH (in)	FINAL CONFIRMATION PCB RESULT (mg/kg)
SA5D-1	54	ND
SA5D-2	60	0.098
SA5D-3	56	0.17
SA5D-4	59	0.21
SA5D-5	59	ND
SA5D-6	56	ND
SA5D-7	50	ND
SA5D-8	60	0.86

ND: non-detect

Site Activities - Axtell Creek

- Removed isolation (groundwater) de-watering system, and
- Abandoned and sealed de-watering well boreholes with bentonite clay.

Site Activities - Staging Pad

- Solidified and loaded out 633.04 tons of TSCA (> 50ppm PCBs) contaminated sediments for disposal at Wayne Disposal landfill in Belleville, Michigan;
- Solidified and loaded out 2269.03 tons of non-TSCA (< 50ppm PCBs) contaminated sediments for disposal at C&C Landfill in Marshall, Michigan; and
- Treated 25,582 gallons of potentially contaminated contact water in EPA's mobile wastewater treatment plant, with a total of 471,083 gallons treated to date.

Project Management Activities

- Continued weekly progress meetings with City of Kalamazoo;
- Conducted data validation for post-removal confirmation sediment samples collected from SA5D;
- Met with Bronson Methodist Hospital officials regarding planning for access in SA5A; and
- Received post-excavation structural assessment for SA6.

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

The major PRP for this portion of the Allied Paper Inc./Portage Creek/Kalamazoo River Superfund site was dissolved through bankruptcy proceedings in April 2010. Other PRPs are being evaluated.

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
TSCA contaminated sediments	solidified sediment	633.04 tons	009077454JJK to 009077466JJK	disposal	Wayne Disposal, Belleville, MI
Non-TSCA contaminated sediments	solidified sediment	2269.03 tons	NTSCA-101 to NTSCA-144	disposal	C&C Landfill, Marshall MI
Scrap Tires	solid	57 tires	JC8-28-1	recycling	Entech, Inc, White Pigeon, MI
Corrugated cardboard boxes	solid	100 lbs	NA	recycling	municipal drop-off center
Dry cell batteries	solid	25 lbs	NA	recycling	federal drop-off center

2.2 Planning Section

A summary of removal activities that will take place from September 1 through September 14 include:

Site Activities - Staging Pad

- Continue de-watering and solidification of excavated sediments for transport;
- Continue transport of solidified sediments for disposal; and
- Continue treatment of contaminated water in EPA's mobile waste water treatment plant.

Site Activities - SA5D & SA5C

- Excavate, solidify and transport for disposal contaminated sediments from Portage Creek in grids SA5D-9 to SA5D-17 (between the Upjohn Park footbridge and Crosstown Parkway);
- Backfill grids SA5D-9 to SA5D-17 according to Restoration Plan;
- Install groundwater de-watering system from Crosstown Parkway to Vine Street;
- Install fencing on east and west banks between Crosstown Parkway & Vine Street; and
- Install wooden platform working surface on west bank of Portage Creek between Crosstown Parkway and Vine Street to support heavy equipment.

Project Management Activities

- Continue weekly progress meetings with City of Kalamazoo; and
- Complete pre-excavation assessments of SA5A and SA3A.

2.2.1 Anticipated Activities

See POLREP #2

2.2.1.1 Planned Response Activities

See above

2.2.1.2 Next Steps

See above

2.2.2 Issues

- Excavation of grids to initial target depths revealed visual paper pulp material. Therefore, many grids were over-excavated until that material was no longer visible. Grid SA5D-7 was sampled at the initial target depth (36 inches), to verify that the suspected paper pulp material exceeded project performance standards. All confirmatory sample results from over-excavation in grids SA5D-1 to SA5D-8 were under the performance standard of 10 mg/kg as well as the performance standard goal of 1 mg/kg as listed below (see table).

GRID	INITIAL TARGET DEPTH (in)	INITIAL PCB RESULT(mg/kg)	OVER DIG (in)	TOTAL ESTIMATED DEPTH (in)	FINAL DEPTH PCB RESULT (mg/kg)
SA5D-1	30	—	24	54	ND
SA5D-2	30	—	30	60	0.098
SA5D-3	30	—	26	56	0.17
SA5D-4	36	—	23	59	0.21
SA5D-5	36	—	23	59	ND
SA5D-6	36	--	20	56	ND
SA5D-7	36	154	14	50	ND
SA5D-8	36	--	24	60	0.86

- The additional over-excavation in grids SA5D-1 to SA5D-8 in Portage Creek resulted in increased costs and added expenses for personnel, equipment, transportation, disposal, sampling and backfill material.

2.3 Logistics Section

The current resources present on site during this reporting period include:

- Office trailers
- Portable restrooms and hand-washing stations
- Portable generators
- Submersible pumps
- Equipment storage container
- ERRS work crews and subcontractor work crews
- START sampling contractor
- Heavy equipment
- Water truck
- Street sweeper
- Mixing boxes
- Frac (water) tank
- Pressure wash trailer
- Bypass pumps and piping
- Sheet piling and steel bridge personnel support structures
- Mobile wastewater treatment plant
- Temporary steel bridge
- Monitoring Equipment

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

Craig Thomas and Paul Ruesch serve as safety officer(s). The HASP is reviewed and signed by all site personnel. All new personnel, including sub-contractors, are provided a site orientation and safety briefing. Safety meetings are held each morning with all site workers.

A safety audit was conducted on August 30 by Federal Occupational Health. A few minor issues were

identified which will be corrected in the next reporting period.

2.6 Liaison Officer

Craig Thomas and Paul Ruesch serve as liaison(s) with local officials and interested parties.

2.7 Information Officer

See Section 2.6

2.7.1 Public Information Officer

See Section 2.6

2.7.2 Community Involvement Coordinator

Don DeBlasio - U.S. EPA

3. Participating Entities

3.1 Unified Command

N/A

3.2 Cooperating Agencies

U.S. Environmental Protection Agency

Michigan Department of Environmental Quality

Michigan Department of Agriculture and Rural Development

Michigan Department of Natural Resources

U.S. Fish and Wildlife Service

City of Kalamazoo:

Department of Public Services

Parks and Recreation Department

Economic Development Department

Community Planning & Development

Public Safety Department

Fire Department

Police Department

ReDevelopment Department

Bronson Methodist Hospital

Kalamazoo Nature Center

4. Personnel On Site

U.S. EPA - 2

ERRS contractor (Environmental Quality Management, Inc) - 13

START contractor (Dynamac/Weston) - 1

CMC Contractors (excavation subcontractor) - 1

Rain for Rent (groundwater extraction subcontractor) - 2

Farm & Garden (fencing subcontractor) - 2

TOTAL PERSONNEL = 19

5. Definition of Terms

C&D - Construction and Demolition (waste)

ERRS - Emergency and Rapid Response Services

FOSC - Federal On Scene Coordinator

U.S. FWS - United States Fish and Wildlife Service

HASP - Health and Safety Plan

HDPE - High density polyethylene (plastic)

mg/kg - milligrams per kilogram

mg/m3 - milligrams per cubic meter

MDARD - Michigan Department of Agriculture and Rural Development

MDEQ - Michigan Department of Environmental Quality

NA - Not Applicable

NOAA - National Oceanic and Atmospheric Administration

NPL - National Priorities List

NRDA - Natural Resource Damage Assessment

ntu - nephelometric turbidity units

PCB - polychlorinated biphenyl

ppm - parts per million

PRPs - Potentially Responsible Parties

RTK GPS - Real Time Kinematic Global Positioning System

SA - Slope Area

START - Superfund Technical Assessment and Response Team

U.S. EPA - United States Environmental Protection Agency

6. Additional sources of information

6.1 Internet location of additional information/report

See the project website at <http://www.epaosc.org/portagecreekarea>.

6.2 Reporting Schedule

The next POLREP will be generated in approximately 2 weeks.

7. Situational Reference Materials

See the project website at <http://www.epaosc.org/portagecreekarea>.

Additional information on the overall Kalamazoo River Project can be found at <http://www.epa.gov/Region5/cleanup/kalproject/index.htm>.