

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #20
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
Todd Goeks, NOAA
Valincia Darby, Department of Interior

From: Craig Thomas, On-Scene Coordinator

Date: 10/12/2012

Reporting Period: 9/29/2012 - 10/12/2012

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 and backfilling operations were completed in SA5C and SA5D on October 10. Visible gross contamination and elevated PCB test results at target excavation depths (see Sections 2.1.2 and 2.2.2) required additional excavation to meet the clean-up performance standard. Site preparation began in SA5A in anticipation of removal activities next construction season.

2.1.2 Response Actions to Date

From September 29 to October 12, EPA, START and ERRS contractors conducted the following activities:

Site Activities - SA5D & SA5C

- Excavated contaminated sediments from grids SA5C-4 to SA5C-6 (see table below) and placed backfill materials / coir logs according to the site restoration plan. The northern most portion of SA5C-6 could not be excavated (see Section 2.2.2 Issues, below);

- Demobilized pumps, de-watering system, engineering & environmental controls and equipment from SA5C;
- Evaluated and determined that excavation of contaminated sediments from grid SA5D-17 was not feasible due to the instability of an adjacent sand bag dam installed for isolation de-watering which was severely compromised due to overtopping resulting from several excessive rain events; and
- Removed sand bag dam and placed backfill materials and coir logs in SA5D-16 and SA5D-17 according to site restoration plan.

GRID	TOTAL ESTIMATED EXCAVATION DEPTH (in)	FINAL CONFIRMATION PCB RESULT (mg/kg)
SA5C-4	65	0.26
SA5C-5	71	0.66
SA5C-6	68	1.03
		0.60 (dup)

ND: non-detect dup: duplicate sample location

Site Activities - SA5A

- Removed fencing from east creek bank; and
- Removed trees and brush from east bank and northern half of west bank in preparation for removal operations next year.

Site Activities - Staging Pad

- Solidified and loaded out 1983.39 tons of TSCA (> 50ppm PCBs) contaminated sediments for disposal at Wayne Disposal landfill in Belleville, Michigan;
- Solidified and loaded out 593.02 tons of non-TSCA (< 50ppm PCBs) contaminated sediments for disposal at C&C Landfill in Marshall, Michigan; and
- Treated 111,189 gallons of potentially contaminated contact water in EPA's mobile wastewater treatment plant, with a total of 653,371 gallons treated to date.

Project Management Activities

- Continued weekly progress meetings with City of Kalamazoo;
- Conducted data validation for additional post-removal confirmation sediment samples collected from SA5C&D;
- Finalized and began implementation of seasonal site shut-down / demobilization plan; and
- Continued discussions with property owners in SA5A and SA3A regarding site access, preparation and restoration.

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

See POLREP #1

2.1.4 Progress Metrics

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal
TSCA contaminated sediments	solidified sediment	1983.39 tons	010588893JJK - 010588907JJK; 010588919JJK- 010588946JJK	disposal	Wayne Disposal, Belleville, MI
Non-TSCA contaminated sediments	solidified sediment	593.02 tons	NTSCA-178 to NTSCA-189	disposal	C&C Landfill, Marshall MI
Scrap Steel	scrap metal	2000 lbs (est)	n/a	recycling	Shupan Recycling
Shipping Pallets	wood	75	n/a	recycling	Holland Pallet

2.2 Planning Section

A summary of removal activities that will take place from October 13 through October 31 include:

Site Activities - Staging Pad

- Complete load out and transport of solidified contaminated sediments from SA5C for disposal; and
- Shut down EPA's mobile waste water treatment plant for the season and demobilize equipment.

Site Activities - Axtell Creek, SA5D & SA5C

- Demobilize all access, engineering and environmental controls (i.e., sheet pile coffer dams, bypass pumping system, isolation de-watering system, steel bridge, temporary fencing);
- Conduct sidewalk and curb repair work (bundle with needed work in SA6 & SA7); and
- Begin restoration activities according to site Restoration Plan.

Project Management Activities

- Continue weekly progress meetings with City of Kalamazoo;
- Conduct data validation for post-removal confirmation sediment samples collected from SA5C and confirmation core sampling conducted in SA5A & SA3A;

- Conduct Post-Removal Structure Feature Assessments in Axtell Creek, SA5D & SA5C.
- Conduct pre-construction sampling and contaminated sediment confirmation sampling of SA5A & SA3A;
- Attempt to obtain access agreements for properties on west creek banks in SA5A & SA3A; and
- Continue implementation seasonal site demobilization plan.

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

- During routine pre-excavation utility locating activities, multiple underground phone and fiber optic lines were identified by AT&T running under the creek in the northern portion of SA5C-6 & SA5C-7. The depths of several of these lines and fiber optic communication cables were unable to be confirmed by phone company field personnel due to conflicting information. Due to the uncertainty of utility depths, it was determined that the north section of SA5C-6 and all of SA5C-7 could not be safely excavated.

- 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 SA5C-4 was sampled at the initial target depths (see table below), to verify that the suspected paper pulp material exceeded project performance standards. All confirmatory sample results from over-excavation in grid SA5C-4 through SA5C-6 were at or 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)
SA5C-4	56	31.4	9	65	0.26
SA5C-5	56	--	15	71	0.66
SA5C-6	56	--	12	68	1.03 0.60 (dup)

ND: Non-detect dup: duplicate sample location

- The additional over-excavation in grids SA5C-4 to SA5C-6 resulted in increased costs and added expenses for personnel, equipment, transportation, disposal, sampling and backfill material.

- A determination was made that excavation of contaminated sediments from grid SA5D-17 (immediately south of Crosstown Parkway) was not feasible due to the instability of an adjacent sand bag dam installed for isolation de-watering which was severely compromised due to overtopping resulting from several excessive rain events.

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.

2.6 Liaison Officer

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

2.7 Information Officer

Several groups of visitors and state/local officials were on site during this reporting period to receive a progress update and view field activities.

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 - 7

ERRS contractor (Environmental Quality Management, Inc) - 13

START contractor (Dynamac/Weston) - 1

CMC Contractors (excavation subcontractor) - 1

Rain for Rent (groundwater extraction subcontractor) - 1

Katerberg Verhage (restoration subcontractor) - 3

Farm & Garden/Viskers (fencing contractor) - 2

Total Tree Service - 7

Baker Corporation Pump Division - 2

TOTAL PERSONNEL = 36

5. Definition of Terms

C&D - Construction and Demolition (waste)

ERRS - Emergency and Rapid Response Services

FOOSC - 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 3 weeks to coincide with season shut down.

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>.