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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: **POLREP #16**
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: 8/17/2012
Reporting Period: 8/4/2012 - 8/17/2012

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.:	NA	**State Notification:**	Yes
FPN#:	NA	**Reimbursable Account #:**	NA

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 in Axtell Creek were completed on August 13 and backfilling was completed on August 17. Elevated PCB test results at target excavation depths (see Sections 2.1.2, 2.2 and 2.2.2) required two over-excavations to meet the clean-up performance standard. Crews completed preparations in SA5D and SA5C (Upjohn Park) to begin excavation of contaminated sediments on August 20. Remaining excavated sediments from Axtell Creek were further solidified on the staging pad and shipped for disposal at designated landfills.

2.1.2 Response Actions to Date
From August 4 to August 17, EPA, START and ERRS contractors/sub-contractors conducted the following activities:

Site Activities - Axtell Creek

- Completed second over-excavation and backfilling of creek channel and banks;
- Complete final confirmatory sampling at second over-excavation bottom in grids AXC-1 to AXC-5 to determine if cleanup goals were met. Final sampling results from all 5 grids met the performance standard of 10 mg/kg PCBs. Confirmatory sample results from grids AXC-1, AXC-2, AXC-4 and AXC-5 met the performance standard goal of 1 mg/kg PCBs (see table);

GRID	TOTAL ESTIMATED EXCAVATION DEPTH (in)	FINAL CONFIRMATION PCB RESULT (mg/kg)
AXC-1	60	non-detect
AXC-2	66	0.97
AXC-3	60	6.97
AXC-4	66	0.061
AXC-5	36	0.189

- Completed construction of a 12" pipeline to support bypass pumps at John Street and discharge at Vine Street;
- Pumped and treated contaminated contact water in EPA's mobile wastewater treatment system; and
- Conducted stream turbidity and particulate monitoring in work areas with all results below action levels.

Site Activities - Staging Pad
- Solidified and loaded out 447.53 tons of TSCA (> 50ppm PCBs) contaminated sediments for disposal at Wayne Disposal landfill in Belleville, Michigan;
- Solidified and loaded out 631.17 tons of non-TSCA (< 50ppm PCBs) contaminated sediments for disposal at C&C Landfill in Marshall, Michigan; and
- Treated 65,369 gallons of contaminated contact water in EPA's mobile wastewater treatment plant, with a total of 445,501 gallons treated to date.

Site Activities - SA6
- Installed new fencing on the west bank which had been removed to facilitate contaminated sediment removal;
- Completed temporary grass seeding and straw placement on east and west banks;
- Replaced gravel on east bank properties impacted by the 30" discharge pipeline; and
- Repaired or replaced asphalt pavement on adjacent parking lots used to access area.

Site Activities - SA5D & SA5C
- Constructed sand-bag coffer dam to facilitate groundwater de-watering between Lake Street and the Upjohn Park footbridge;
- Constructed a wood platform working deck on east bank to support contaminated sediment removal and transport operations; and
- Installed groundwater dewatering system from Lake Street to the Upjohn Park footbridge.

Project Management Activities
- Continued weekly progress meetings with City of Kalamazoo;
- Scheduled restoration work in SA6 and SA7 to begin on September 17; and
- Conducted data validation for post-removal confirmation sediment samples collected from Axtell Creek.

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

Waste Stream	*Medium*	*Quantity*	*Manifest #*	*Treatment*	*Disposal*
TSCA contaminated sediments	solidified sediment	447.53 tons	009952883JJK and 009077445JJK to 009077453JJK	disposal	Wayne Disposal, Belleville, MI
Non-TSCA contaminated sediments	solidified sediment	631.17 tons	NTSCA-88 to NTSCA-100	disposal	C&C Landfill, Marshall MI

2.2 Planning Section

A summary of removal activities that will take place from August 18 through August 31 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 between Lake Street and the Upjohn Park footbridge;
- Install groundwater de-watering system between the Upjohn Park footbridge and Crosstown Parkway;
- Remove Upjohn Park footbridge to facilitate access for contaminated sediment excavation operations; and

- Install fencing on east and west banks between Axtell Creek & Crosstown Parkway and between Crosstown Parkway & Vine Street.

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
- All confirmatory sample results from the second over-excavation in Axtell Creek grids were under the performance standard of 10 mg/kg. Confirmatory sampling in grid AXC-3 was above the performance standard goal of 1 mg/kg as listed below (see table).

GRID	INITIAL TARGET DEPTH (in)	INITIAL PCB RESULT(mg/kg)	1st OVERDIG (in)	DEPTH (in)	1st OVERDIG PCB RESULT (mg/kg)	2nd OVERDIG (in)	TOTAL ESTIMATED DEPTH (in)	2nd OVERDIG PCB RESULT (mg/kg)
AXC-1	24	27.9	12	36	35.8	24	60	non-detect
AXC-2	30	8.9	12	42	14.3	24	66	0.97
AXC-3	24	16.10	12	36	19.3	24	60	6.97
AXC-4	30	18.7	12	42	22.6	24	66	0.061
AXC-5	24	4.15	6	30	3.93	6-12	36	0.189

- The two additional over-excavations in Axtell 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

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
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) - 14
START contractor (Dynamac/Weston) - 1
CMC Contractors (excavation subcontractor) - 1
Rain for Rent (groundwater extraction subcontractor) - 2
Farm & Garden (fencing subcontractor) - 2

TOTAL PERSONNEL = 20

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.