

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #18
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: Paul Ruesch, On-Scene Coordinator

Date: 9/14/2012

Reporting Period: 9/01/2012 - 9/14/2012

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 in SA5D (Upjohn Park) continued during this reporting period. Contaminated sediment removal and backfilling was completed in grids SA5D-9 to SA5D-13 by September 14. 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. 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 September 1 to September 14, EPA, START and ERRS contractors conducted the following activities:

Site Activities - SA5D & SA5C

- Excavated contaminated sediments from grids SA5D-9 to SA5D-13 (see table below for details) and

- placed backfill materials / coir logs according to the site restoration plan;
- Conducted pre-construction soil sampling in SA5C on east bank working area;
- Fenced in working area in SA5C;
- Installed wooden platform working surface in SA5C on east bank between Crosstown Parkway and Vine Street to support heavy equipment;
- Installed sediment controls in creek channel in SA5C; and
- Began installation of isolation groundwater de-watering system in SA5C.

GRID	TOTAL ESTIMATED EXCAVATION DEPTH (in)	FINAL CONFIRMATION PCB RESULT (mg/kg)
SA5D-9	60	0.13
SA5D-10	60	0.045
SA5D-11	60	ND
SA5D-12	50	0.14/ 0.11 (dup)
SA5D-13	60	ND
ND: non-detect dup: duplicate sample location		

Site Activities - Axtell Creek

- Installed coir logs on creek banks.

Site Activities - Staging Pad

- Solidified and loaded out 1031.44 tons of TSCA (> 50ppm PCBs) contaminated sediments for disposal at Wayne Disposal landfill in Belleville, Michigan;
- Solidified and loaded out 685.91 tons of non-TSCA (< 50ppm PCBs) contaminated sediments for disposal at C&C Landfill in Marshall, Michigan; and
- Treated 7,190 gallons of potentially contaminated contact water in EPA's mobile wastewater treatment plant, with a total of 478,273 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 SA5D;
- Conducted site walks in SA5A & SA3A to plan for contaminated sediment removal operations in 2013;
- Requested site access from property owner of residences on west bank of SA5A;
- Solicited bids for clearing and grubbing in SA5A;
- Reviewed post-excavation structural assessment for SA6;
- Begin development of seasonal site shut-down / demobilization plan; and
- Began discussions with property owners in SA3A regarding site access, preparation and restoration.

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	1031.44 tons	009077467JJK to 009077487JJK	disposal	Wayne Disposal, Belleville, MI
Non-TSCA contaminated sediments	solidified sediment	685.91 tons	NTSCA-145 to NTSCA-158	disposal	C&C Landfill, Marshall MI
Scrap metal	solid	480 lbs	NA	recycling	Shupan Recycling

2.2 Planning Section

A summary of removal activities that will take place from September 15 through September 28 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 - SA7 & SA6

- Conduct restoration work (seeding, fertilizing, tree & brush planting) according to Restoration Plan.

Site Activities - SA5D & SA5C

- Excavate, solidify and transport for disposal contaminated sediments from Portage Creek in grids SA5D-13 to SA5D-17 (between the Upjohn Park footbridge and Crosstown Parkway);
- Backfill and install coir logs in grids SA5D-13 to SA5D-17 according to Restoration Plan;
- Complete installation of isolation groundwater de-watering system in SA5C; and
- Excavate, solidify and transport for disposal contaminated sediments from Portage Creek in grids SA5C-1 to SA5C-7 (between Crosstown Parkway and Vine Street).

Project Management Activities

- Continue weekly progress meetings with City of Kalamazoo;
- Conduct pre-construction sampling and contaminated sediment confirmation sampling of SA5A & SA3A; and
- Obtain access agreements for properties on west creek banks in 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. Grids SA5D-9 & SA5D-12 were 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 grids SA5D-9 to SA5D-13 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-9	30	1.02	30	60	0.13
SA5D-10	30	—	30	60	0.045
SA5D-11	42	—	18	60	ND
SA5D-12	42	2.45	8	50	0.14/0.11 (dup)
SA5D-13	12	—	48	60	ND

ND: Non-detect dup: duplicate sample location

- The additional over-excavation in grids SA5D-9 to SA5D-13 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.

Minor issues identified in the August 30 safety audit by Federal Occupational Health were addressed during this 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

A local freelance photographer took photos of the excavation, creek bypass pumping and contaminated sediment removal load out operations for a documentary on Osprey in the Kalamazoo River system.

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) - 3
Farm & Garden (fencing subcontractor) - 3

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>.