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

SEPA EMERGENCY RESPONSE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region V

Subject: POLREP #15

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: 8/3/2012

Reporting Period: 7/20/2012 - 8/3/2012

1. Introduction

1.1 Background

Site Number:059B05Contract Number:EP-S5-08-02D.O. Number:0087Action Memo Date:7/5/2011Response Authority:CERCLAResponse Type:Time-CriticalResponse Lead:EPAIncident 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 delayed by high PCB test results at the target excavation depths (see Sections 2.1.2, 2.2 and 2.2.2). Dredging will contine on August 8 once the groundwater dewatering system has had sufficient operational time to capture groundwater. Crews began preparations for excavation in SA5-D and SA5-C (Upjohn Park). A creekwater bypass pump system, groundwater dewatering system, and temporary bridge were installed to facilitate contaminated sediment removal operations. 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 July 21 to August 3, EPA, START and ERRS contractors/sub-contractors conducted the following activities:

Site Activities - Axtell Creek

- Completed post-excavation sampling for the initial over-excavation depths in grids AXC-1 thru AXC-5 to determine if cleanup goals were met. Only the sample result from grid AXC-5 met the performance standard of 10 mg/kg PCBs. None of the confirmatory sample results from any of the grids met the performance standard goal of 1 mg/kg PCBs. Based on these results, additional core sampling was conducted (see Section 2.2.2) and additional PCB-contaminated material was identified. All grids will undergo a second over-excavation (see details in Section 2.2.). Grids AXC-1 through AXC-5 are estimated (est) to be over excavated as follows once the de-watering system is installed.

GRID	TOTAL EXCAVATION DEPTH (in)	TERTIARY CONFIRMATION PCB RESULT (mg/kg)
AXC-1	60 (est)	TBD
AXC-2	66 (est)	TBD
AXC-3	60 (est)	TBD
AXC-4	66 (est)	TBD
AXC-5	36 (est)	TBD

- Completed installation of groundwater de-watering system around perimeter of excavation;
- Began construction of a 12" discharge pipeline from the John Street pump station to Vine Street to prevent Axtell Creek discharge from filling SA5-D and SA5-C excavation areas in Portage Creek and enhance existing pump capacity to handle extreme rain events:
- Pumped and treated contaminated contact water in AXC-2 to AXC-4 in EPA's mobile wastewater treatment system; and
- Conducted personnel air monitoring, stream turbidity, and perimeter particulate monitoring in work areas with all results below action levels.

Site Activities - Staging Pad

- Solidified and loaded out 511.87 tons of TSCA (> 50ppm PCBs) contaminated sediments for disposal at Wayne Disposal landfill in Belleville, Michigan;
- Solidified and loaded out 431.11 tons of non-TSCA (< 50ppm PCBs) contaminated sediments for disposal at C&C Landfill in Marshall, Michigan; and
- Treated 140,415 gallons of contaminated contact water in EPA's mobile wastewater treatment plant, with a total of 378,678 gallons treated to date.

Site Activities - SA6

- Spread topsoil, grass seed and straw on the top of the creek banks and impacted adjacent properties;
- Began installation of new fencing on the west bank which was removed to facilitate contaminated sediment removal; and
- Installed new fencing at two properties on the east bank which was removed to facilitate installation of the 30" bypass pump system disharge line.

Site Activities - SA5-D & SA5-C

- Completed installation of temporary fencing around work area on east bank;
- Installed and tested creek bypass pumping system at Lake Street bridge;
- Constructed two 18" discharge lines on west bank from Lake Street pump station to Vine Street to handle discharge from creek bypass pumping system;
- Began installation of groundwater dewatering system; and
- Installed temporary steel bridge to facilitate transport of excavated sediments to staging pad without using public roadways.

Project Management Activities

- Continued weekly progress meetings with City of Kalamazoo;
- Awarded contract to implement restoration plans for SA5, SA6, and SA7;
- Awarded contract to re-pave or fix damaged asphalt in paved lots used to access SA6; and
- Conducted data validation for post-removal confirmation sediment samples and investigatory cores 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	511.87 tons	009952872JJK to 009952882 JJK	disposal	Wayne Disposal, Belleville, MI
Non-TSCA contaminated sediments	solidified sediment	431.11 tons	NTSCA-79 to NTSCA-87	disposal	C&C Landill, Marshall MI
Scrap metal	steel	1240 lbs		recycling	Shupan Industrial Recycling, Kalamazoo,

					MI
Plastic	bottles	100 lbs	none	recycling	Best Way Disposal, Kalamazoo, Ml
Wooden shipping pallets	solid	100	none	dismantlement reuse	Holland Pallet, Kalamazoo, Ml

2.2 Planning Section

A summary of removal activities that will take place from August 6 through August 17 include:

Site Activities - Axtell Creek

- Complete overexcavation, backfilling and restoration of creek channel and banks;
- Complete tertiary confirmatory sampling at excavation bottom in AXC-1 to AXC-5;
- Complete construction of a 12" pipeline to support creek bypass pumps at John Street and discharge at Vine Street; and
- Conduct personnel air monitoring, stream turbidity, and perimeter particulate monitoring in work areas.

Site Activities - Staging Pad

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

Site Activities - SA5-D

- Complete installion of groundwater de-watering system between Lake Street and Axtell Creek;
- Install fencing around Lake Street pumping station, west bank between Axtell Creek and Crosstown Parkway, and both east and west banks between Crosstown Parkway and Vine Street;
- Construct sand-bag coffer dam to facilitate groundwater de-watering between Lake Street and the Upjohn Park footbridge; and
- Construct wood platform working deck on east bank to support contaminated sediment removal and transport operations.

Site Activities - SA6

- Complete construction of new fencing along east and west bank;
- Remove temporary fencing from City of Kalamazoo parking lot;
- Repair asphalt from impacted lots used to access area;
- Complete temporary grass seeding and straw on east and west banks; and
- Replace impacted gravel areas on east bank properties impacted by the 30" discharge pipeline.

Project Management Activities

- Continue weekly progress meetings with City of Kalamazoo.

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

Only one post-excavation confirmatory sample result from the second round of excavation in grids in Axtell Creek was under the performance standard of 10 mg/kg. All of the second round of confirmatory sampling results at target dredging depths in the grids were above the performance standard goal of 1 mg/kg as listed below (see table).

GRID	TARGET DEPTH (in)	INITIAL PCB RESULT (mg/kg)	OVERDIG (in)	TOTAL DEPTH (in)	CONFIRMATION PCB RESULT (mg/kg)
AXC-1	24	27.9	12	36	35.8
AXC-2	30	8.9	12	42	14.3
AXC-3	24	16.10	12 (est)	36	19.3
AXC-4	30	18.7	12 (est)	42	22.6
AXC-5	24	4.15	6 (est)	30	3.93

Based on these results, additional core sampling was conducted in Axtell Creek and it was determined that additional PCB contaminated material was at depth which requires excavation. The following table shows the results of the additional core sampling effort:

AXC-2-A	0-12	2.33
AXC-2-B	0-12	5.29
AXC-2-C	0-12	14.7
AXC-3-A	0-12	13.7
AXC-3-A	12-16	23.1
AXC-3-B	0-13	3.31
AXC-4-A	0-12	18
AXC-4-B	0-12	0.079
AXC-4-B	12-15	18.2
AXC-4-C	0-12	0.087
AXC-4-D	0-12	8.1
AXC-4-D	12-15	0.049
AXC-5	0-13	8.9
AXC-5B	0-8	0.2

Additional over-excavation will result 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 are provided a site orientation and safety briefing. Safety meetings are held each morning with all 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

Baker Corporation (pump subcontractor) - 2

Rain for Rent (groundwater extraction subcontractor) - 3

Selges Construction (pipeline construction subcontractor) - 3

Farm & Garden (fencing subcontractor) - 3

TOTAL PERSONNEL = 28

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.