

US EPA ARCHIVE DOCUMENT

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Kalamazoo River/Enbridge Spill - Removal POLREP-SITREP



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V



Subject: SITREP #25
Kalamazoo River/Enbridge Spill
Z5JS
Marshall, MI
Latitude: 42.2395273 Longitude: -84.9662018

To: Lt. Paul Baker, Kalamazoo County Sheriff's Office
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Durk Dunham, Calhoun County Emergency Management
F/LT Bonnie Kanicki-Wilson, Michigan State Police, Emergency Mgt.
Greg Danneffel, MDNRE

Mike McKenzie, City of Battle Creek
 Leon Zupan, Enbridge
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 Scott Corbin, Allegan County EMA Director

From: Ralph Dollhopf, U.S. EPA Incident Commander
 Stephen Wolfe, U.S. EPA On-Scene Coordinator
 Jeff Kimble, U.S. EPA Deputy Incident Commander
 Mark Durno, U.S. EPA Deputy Incident Commander

Date: 08/19/10

Reporting Period: 1900 hours 08/18/10 to 1900 hours 08/19/10

1. Introduction

1.1 Background

1.1.1 Site History

Background Information

Site Number: Z5JS

D.O. Number:

Response Authority: OPA

Response Lead: PRP

NPL Status: Non NPL

Mobilization Date: 7/26/2010

Demob Date:

CERCLIS ID:

ERNS No.:

FPN#: E10527

Contract Number:

Action Memo Date:

Response Type: Emergency

Incident Category: Removal Assessment

Operable Unit:

Start Date: 7/26/2010

Completion Date:

RCRIS ID:

State Notification:

Reimbursable Account

1.1.2 Incident Category

Emergency Response -- Pipeline Rupture

1.1.3 Site Description

A 30-inch pipeline ruptured, releasing crude oil (NRC report of 19,500 barrels) into a culvert leading to Talmadge Creek. Talmadge Creek is a tributary to the Kalamazoo River. The response site is along Talmadge Creek and the Kalamazoo River running from Marshall, Michigan, to downstream of Battle Creek, Michigan. The Kalamazoo River is bordered by marshland and developed properties for the approximate 30-mile stretch of the response site.

1.1.4 Preliminary Removal Assessment/Removal Site Inspection Results

Approximately 30 miles of the Kalamazoo River have been impacted. The Kalamazoo River experienced flooding before and after the spill. The river levels later fell and stranded oil in some backwaters, wetlands and floodplains. Talmadge Creek was boomed off at the confluence to the Kalamazoo River. Containment and absorbent boom were deployed along the Kalamazoo River and Talmadge Creek. Containment and absorbent boom also were deployed in Morrow Lake.

1.1.5 Enforcement Activities, Identity of Potentially Responsible Parties

Enbridge is the RP.

On July 27, 2010, EPA issued an Administrative Order under section 311(c) of the Clean Water Act to Enbridge. Enbridge has submitted and EPA has approved the following deliverables required by the Order including but not limited to: *Operational Health and Safety Plan; Pipeline Repair Workplan; Sampling and Analysis Plan; Quality Assurance Project Plan; Oil Containment and Recovery Plan; Source Area Remediation Plan; Remediation Plan for Downstream Impacted Areas; and Waste Treatment, Transportation, and Disposal Plan.*

1.2 Incident Objectives and Command Emphasis

Incident Objectives

- 1) Ensure health and safety of the public and response & recovery personnel.
- 2) Maintain the isolation of Talmadge Creek and Kalamazoo River from the source area.
- 3) Contain and recover oil and contaminated vegetation in Talmadge Creek and Kalamazoo River.
- 4) Maintain effective unified communications with cooperating & assisting agencies and the public.

- 5) Perform remediation & restoration of all affected public & private areas of river & river systems.
- 6) Provide protection of environmentally and culturally sensitive areas including wildlife and historic properties.
- 7) Protect threatened and endangered species & continue to recover & rehabilitate injured wildlife.
- 8) Maintain Joint Information Center function.
- 9) Continue to collect, coordinate, manage and communicate environmental and public health data.
- 10) Obtain input from multi-agency Science Team to help establish protocols to guide cleanup of environmentally impacted areas.

Command Emphasis

- 1) Implement operations metrics display in all situations and operations updates to UC.
- 2) Enbridge to maintain primary responsibility for planning cycle and IAP development:
 - Monitor effectiveness of IAP briefing and use by Operations; and
 - Continue transition of IAP development from EPA to Enbridge.
- 3) Concentrate resources for river, shore, and floodplain cleanup and sheen management in Division C, with emphasis below Ceresco Dam.
- 4) SCAT update on lower Division C, below Ceresco Dam.
- 5) Review SCAT recommendations with Science Team, with emphasis on Division C, to coordinate near-term cleanup efforts.
- 6) Re-evaluate and enhance current, continuous, comprehensive subsurface monitoring in the Kalamazoo River and at Morrow Lake.
- 7) Unified Command visitation of work areas in Division C.

1.3 Strategic Considerations

- 1) Increase emphasis on improving work efficiencies in Division C.
- 2) Continue shift of monitoring resources (air, water, sediment) and analytical resources from EPA to Enbridge.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The response site extends from the pipeline break to the dam at the end of Morrow Lake. Operationally, the response has been divided into two Oil Recovery and Cleanup Branches: East and West. These branches have been geographically divided into five Divisions, A through E, with Division A starting at the pipeline break and Division E

ending at the western edge of Morrow Lake (see attached figure). The East Branch includes Divisions A and B and the West Branch includes Divisions C, D and E. Division C is currently an area of command emphasis and has been further subdivided into four groups performing similar response activities in order to accelerate cleanup progress in that Division. Certain control points are denoted by division letter then control point number (i.e., C3 refers to control point three within Division C). Additionally, the entire length of Divisions B and C are now divided into one-quarter mile sections.

The following activities occurred during the reporting period from 1900 hours on August 18 to 1900 hours on August 19, 2010:

Division A

Division A has been redefined to include the upstream portion of Division B (to the upstream side of location B2) since the operations required there are more similar to those in Division A than Division B. This area is now referred to as Area A. **Refer to the attached map.**

Enbridge

Enbridge reported that it conducted oil collection at the release site with vacuum tankers and removed contaminated soil to the containment site. Silt fence installation is complete, and water filtration system has been installed. Enbridge also continued scraping oiled vegetation and surficial soils in accordance with SCAT recommendations, along with chipping and clearing.

EPA

EPA observed Enbridge coating the pipe in preparation for hydrotesting. EPA also observed continued soil excavation, including in a wetland area. Excavation is nearly complete. All standing oil has now been removed from water ponds. Dewatering continues with filtration of the collected water/oil mixture.

Division B

Enbridge

Enbridge reported that it continued oil collection at boom containment sites and replaced contaminated boom as required. Enbridge continued to construct swamp mat roads along Talmadge Creek, West of I-69. Crews worked on scraping oiled bank vegetation and soil along Talmadge Creek. This material was placed at the soil containment site. Construction of containment cell 2 between 15 ½ Mile Road and the Kalamazoo River is nearly complete.

EPA

EPA observed continued skimming operations. Heavy sheen was visible at night at location B3. EPA observed Enbridge using gas-powered blowers in the wetland between locations B2.5 and B3 to move surface material around, an activity not consistent with the 204. On-site personnel corrected the situation and the use of gas blowers was terminated.

EPA and START conducted turbidity monitoring in Talmadge Creek while Enbridge crews continued oil collection and scraping operations along the bank between B2 and B5. Excavation of the marsh area at the end of Location B3 is now complete. Excavated soils were transported to the soil staging area prior to off-site disposal.

Division C

Enbridge

Enbridge maintained boom and replaced absorbents, sweep and snare. Group 1 in Division C is standing up a new boom deployment site and Group 4 had MIOSHA on-site working with Enbridge safety representatives.

Shoreline vegetation removal continued in Groups 1, 2, 3, and 4. In Group 1, the "Swamp Thing" was used to remove emergent vegetation, and work began on the island, south of Twin Islands. In Division C, Group 3, work continued on the upland pooled oil at the oxbow at MP 11.

EPA

EPA observed Enbridge performing boom maintenance, vegetation removal and shoreline washing. Shoreline washing was observed as being labor intensive with little recovery of oil, it was identified that an alternative shoreline washing technique be used. EPA observed heavily oiled bank soil and vegetation in contact with the water at location C4 and pooled oil draining to river in multiple locations in this area. EPA OSC discussed with Enbridge the need to address these conditions and received assurance it would be done. Crews were collecting oiled debris and/or vegetation at locations C1, C2, and C4. Decontamination of boom was observed at night.

EPA observed approximately 40 to 50 boats in the water between River Mile 2.25 and 6 and another 20 to 30 boats between River Mile 6.25 and 9.75 conducting boom maintenance, shoreline washing, and removal of oiled vegetation. EPA observed two boats cutting vegetation at location C5. One air boat sunk at dock during launch due to failure to put the drain plug in.

EPA observed continuous oil collection above the overflow dam at the lower part of Location C6. EPA noted submerged oil behind the dam on the south shore; significant

sheen occurred when a propeller boat passed over the area. EPA noted a strong petroleum odor in the area of River Mile 12.25 to 15.75.

Division D **Enbridge**

Enbridge reported boom maintenance and skimming operations continued.

EPA

EPA observed boom maintenance activities and the collection of oiled debris and vegetation. Three Gabion boxes were placed at location D1. EPA discussed strategies to address sheening from dirty Gabion box retrieval at location D1 with Enbridge.

Division E

Enbridge

Enbridge reported it is evaluating the aeration system and continues to maintain boom absorbent pads and sweep boom, as necessary.

EPA

EPA observed boom collection and redeployment as well as shoreline vegetation removal work. EPA observed Enbridge replacing the air bubbler at location E4.

Branch Operations

EPA, USCG and Enbridge Operations have four Branches that conduct activities in all Divisions: Environmental Compliance and Oversight; Monitoring; Wildlife Environmental/Damage Assessment; and Air Ops.

Environmental Compliance and Oversight Branch

Enbridge reported that it provided oversight for cleanup activities at the source area, Talmadge Creek, as well as the river shoreline and floodplain.

EPA observed Enbridge operations at contaminated materials staging and shipping areas for all waste streams and randomly audited manifests EPA contacted Dynecol a second time to request liquid volume logs. The EPA's Transportation and Disposal operations office trailer is being relocated.

Monitoring Branch

Enbridge

Enbridge reported that they collected 29 surface water samples, 14 potable water samples, and 1 sediment sample.

Enbridge reported that its air sampling program continued to focus around Baker Estates mobile home park, the Ceresco Dam and the leak site.

EPA

EPA conducted air monitoring in all divisions. Tedlar bag air samples were collected in the Division B exposure units and three of the five focus areas (Daycare Center, Baker Estates, and Ceresco Dam). EPA observed the Enbridge air monitoring crew in Divisions B and C. Summa canisters collected in the grid areas showed results below action levels.

EPA collected water and sediment samples from two sites on Morrow Lake. EPA observed Enbridge surface water sampling teams and collected three split surface water samples from the river.

USGS completed the bathymetric survey of the river, within Division C.

The GLNPO R/V Mudpuppy crew collected 2 sediment and 6 surface water samples from Morrow Lake.

Wildlife Damage Assessment Branch

USFWS worked with the Wildlife Branch to address oil-impacted wildlife. The wildlife center continued to receive oiled animals collected along the Kalamazoo River. There are 199 animals in live care, the majority of which are Canada Geese and turtles. A total of 180 animals have been rehabilitated and released.

Air Ops Branch

Enbridge

Enbridge flew nine over-flights yesterday and reported observing broken sheen in a boomed area above Morrow Lake and no visible sheen on Morrow Lake.

EPA

EPA conducted three over-flights of the river. Observations made during over-flights are reported at the daily situational briefings.

2.1.2 Progress Metrics

All progress metrics in Section 2.1.2 are as reported by Enbridge unless otherwise indicated.

Boom Report

Number of Locations	41
Boom Deployed (feet)	156,290

Note: Since the transition of EPA's contractor's to Enbridge at 1900 hrs on 08/12/10, all boom is now controlled by Enbridge.

Waste Tracking

Waste Stream	Quantity Shipped 8/18/2010	Cumulative Quantity Shipped*	Quantity On-Site Awaiting Disposal*
Soil ¹	1,209 yd ³	9,736 yd ³	14,068 yd ³
Debris ²	735 yd ³	5,950 yd ³	NA
Untreated Water ³	98,968 gallons		
Pre-treated Water ⁴	163,200 gallons		

* Information for water (other than daily quantity shipped) is reported in other tables below. Quantity awaiting disposal is estimated.

NA – Not provided by Enbridge

1. Benzene-impacted soil is being sent to Envirosafe.
2. Roll-off boxes containing waste sorbents, boom, pads, plastic, PPE, and oiled vegetation and biomass are being sent to Michigan Disposal.
3. Untreated water (hazardous waste) is being sent to Dynecol.
4. Pre-treated water is being sent to the Battle Creek POTW.

Oil Water Recovery Tracking

Note: Some of the values in the tables below have been audited and reconciled by Enbridge and may not correlate with previously reported values.

Oily Water Collected by Location	
Location	Cumulative Total Collected (gallons)
Division A	3,817,724
Division B	2,487,875
Division C	726,600
Division D	117,825
Division E	41,250
Undetermined	109,200
TOTAL	7,300,474

Oily Water Shipped Off-Site		
Oily Water Leaving Site	Destination	Cumulative Quantity Shipped (gallons)
Untreated Water (Haz Waste)	Dynecol, Detroit MI	1,180,147
Pre-treated Water	Battle Creek POTW	1,721,700
Oily Water	RP facility, Griffith IN	2,053,000
TOTAL		4,954,847

Oily Water Volume Summary (gallons)	
Oily Water Collected	7,300,474
Oily Water Shipped Off-site	4,954,847
OILY WATER REMAINING ON-SITE	2,345,627

Oil-Water Separation at Griffith IN Facility (gallons)	
Oil	620,000
Water	1,433,000
TOTAL	2,053,000

2.2 Planning Section

The ENVL discussed air sampling results at Command and General Staff meeting and worked with technical specialists to evaluate surface water, sediment and air trends over the event period. The ENVL also met with the USGS survey team to discuss hydrologic model deliverables.

The SCAT Leader, SCAT data manager and ENVL worked to coordinate SCAT data management and integrate SCAT data recommendations with operations. The SCAT team and countermeasures specialist evaluated potential countermeasures approaches. The SCAT team worked to develop methods matrix.

The Science team met and discussed SCAT recommendations and assessment endpoints. The Health Team reviewed groundwater and air sampling results and discussed sampling frequency and parameters. .

2.2.1 Anticipated Activities for Next Reporting Period

In the next operational period, Operations anticipates performing the same or similar activities as in the previous operational period, with a focus on activities in Division C, below the Ceresco Dam.

2.2.2 Issues

The Public Health Unit reported two spill-related calls to the Poison Control Center (PCC). The number of total calls and provider reports to date is 115. All homes in the suggested evacuation zone have been cleared for re-entry. Home surveys were completed for the previously defined evacuation zone last night. Thirteen homes were visited: people were home at two of the eight homes and completed the health survey.

One of the two residents declined the air monitoring. All homes in the suggested evacuation zone have been visited, with about 50% completing the health survey. The comparison population survey is tentatively planned for tonight.

2.3 Logistics Section

EPA Logistics continued planning the ICP relocation with the Enbridge Move Team and visited the new ICP location at 1601 Pratt Avenue, Marshall, Michigan to monitor progress. Ten trailers have arrived at the new location. Electrical and information technology wiring are being installed.

2.4 Finance Section

The current NPFC issued ceiling is \$13 million. Approximately 82% of the ceiling has been spent through August 18, 2010, with a burn rate of \$347,074 per day. These cost summaries reflect only EPA-funded expenditures for the incident.

FPN E10527 - Enbridge Pipeline Oil Spill
8/18/2010

ERRS Contractors		Est. Expended	Est Burn Rate (Lastest Daily)
EQM (EPS50802)	TO-57	\$1,283,893	\$1,500
	TO-60	111,000	18,500
LATA (EPS50804)		1,451,396	0
ER LLC (EPS50905)		723,669	0
ERRS Contractors		\$3,569,958	\$20,000
START Contractor			
WESTON (EPS50604)		2,650,647	140,467
Response Contractor Sub-Totals		\$6,220,605	\$160,467
EPA Funded Costs:			
Total EPA Costs		1,880,203	103,300
Pollution Removal Funding Agreements:			
Total Other Agencies		\$1,212,712	\$40,284
Sub-Totals		\$9,313,520	\$304,051
Indirect Cost (14.15%)		1,317,863	43,023
Total Est. Oil Spill Cost		\$10,631,383	\$347,074

2.5 Safety Officer

Three minor first aid injuries were reported overnight while no injuries or incidents were reported during the day.

2.6 Liaison Officer

The LNO arranged an overview flight for the Cities of Marshall and Battle Creek Environmental Program Coordinators for Friday, August 20. The LNO facilitated submission of claims for reimbursement to Enbridge by the Cities of Plainwell and Allegan.

2.7 Information Officer

A public meeting was scheduled for August 19, 2010 at 1900 hours. An open house was planned prior to the public meeting, at 1800 hours, and a second open house immediately followed the public meeting. This meeting took place at the Kalamazoo County Expo Center/Fairgrounds located at 2900 Lake Street in Kalamazoo.

JIC staff operated the media inquiry line and performed media monitoring.

Media Inquiry Line (888-363-8632)

Calls received during reporting period: 2

Enbridge reported the following call volume and community center visits:

Oil Spill Public Information Hotline (800-306-6837)

Calls received during reporting period: 166

Community Center Visits: 70

Visits by location during reporting period:

Battle Creek	54
Marshall	16

Enbridge reported that it received seven inquiries from its www.response.enbridgeUS.com website.

2.8 Response Actions to Date

Recovery of oil and contaminated soil and debris continues. Containment boom, sorbent boom, skimming equipment, vacuum trucks and other equipment has been used to support oil collection and removal along Talmadge Creek and the Kalamazoo River. Contaminated soils are being excavated from Divisions A and B. Replacement of the damaged pipeline and stabilization of the excavation are progressing. Contaminated shoreline vegetation along the creek and river is being cleaned or removed to control sheen. Recovered materials are being handled on-site and prepared for off-site transport. Tanker trucks are transporting the recovered oil to a facility owned by the RP with

available storage in Griffith, Indiana. Oil-contaminated soils and other materials are being transported off-site for disposal.

EPA, ERT, START and RP contractors, with the support of the ERT Mobile Lab and Michigan National Guard Civil Support Team, have monitored and sampled air quality along the river and throughout multiple residential areas. A heavy emphasis was placed on specific monitoring for benzene as it is a recognized contaminant of concern for this response.

Water samples were collected for analysis from surface water, river and lake water columns, and private drinking wells along the length of the impacted areas of the Kalamazoo River. Water samples were also collected downstream of the Morrow Lake Dam. Validated analytical sampling results are now being posted to the public incident website (<http://www.epa.gov/enbridgespill/data/datawater.html>).

Enbridge removed the affected area of pipe, followed the cut out/repair plan, and completed a pipe investigation (50 feet upstream and downstream of the cut points) on August 7, 2010. The affected length of pipe has been repaired but is not yet operational.

A voluntary evacuation was issued by CCPH, in consultation with MDCH and ATSDR, for several residences located immediately downstream of the spill site along Talmadge Creek, up to its confluence with the Kalamazoo River. This voluntary evacuation was based on review of air monitoring results for benzene around oil collection areas. On August 16, 2010, CCPH lifted the recommended evacuation for the northwest portion of the voluntary evacuation zone after air monitoring and sampling results showed benzene levels below established action levels. On August 18, 2010, air sampling results for the remaining evacuation zone areas confirmed that benzene levels were below action levels allowing for re-occupancy. The Calhoun County Health Department worked on notifying residents.

Contingency Plans have been developed for several areas downstream of Morrow Lake, including Lake Michigan, in the case oil moves past the Morrow Lake Dam..

On August 17, 2010, EPA approved the following revised plans submitted by Enbridge: *Remediation Plan for Downstream Impacted Areas*, *Source Area Remediation Plan*, *Quality Assurance Project Plan* and *Sampling and Analysis Plan*. All plans submitted by Enbridge as required by the July 27, 2010, Administrative Order have now been approved.

3. Participating Entities

3.1 Unified Command

U.S. EPA

MDNRE

Michigan State Police Emergency
Management Division

City of Battle Creek

Calhoun County Public Health
Department

Calhoun County Emergency
Management

Kalamazoo County Sheriff

Enbridge (Responsible Party)

Cooperating and Assisting Agencies Cooperating Agencies

51st Civil Support Team Michigan
National Guard

ATSDR

Allegan County Emergency
Management

American Red Cross

Calhoun Conservation District

Calhoun County Commission

City of Kalamazoo

City of Marshall

Emmett Township

Federal Energy Regulatory Commission

Fredonia Township

Kalamazoo County Office of Emergency
Management

Kalamazoo River Watershed Council

Marshall Area Firefighters Ambulance
Authority

Marshall Police Department

Marshall Township Government and
Fire Department

Michigan Department of Agriculture
MDCH

MIOSHA

National Transportation Safety Board

Natural Resource Group

NOAA

Oakland County HAZMAT
OSHA

PHMSA

USCG

U.S. Department of the Interior/USGS
USFWS

3.3 Congressional Presence

State Representative Jase Bolger

State Representative Kate Segal

State Representative Ken Kurtz

State Representative Phil Browne

State Representative Phyllis Browne

State Representative Bob Geuck

State Representative Tanya Schuitmaker

State Senator Mike Nofs

U.S. Congressman Mark Schauer

U.S. Senator Carl Levin

U.S. Senator Debbie Stabenow

4. Personnel On Site

Agency/Entity	Numbers reported
EPA	68
MDNRE	25
Michigan State Police	10
City of Battle Creek	2
CCPH	3
MDA	1
MDCH	5
Calhoun County Sheriff	11
Kalamazoo County Sheriff	2
USCG	10
USFWS	10
USDA	2
ERRS	2
START	82
Enbridge	40
Enbridge Contractors	1276
Total	1549

5. Definition of Terms

ATSDR	Agency for Toxic Substances and Disease Registry
CCPH	Calhoun County Public Health
CIC	Community Involvement Coordinator
DMU	Data Management Unit
EMT	Emergency Medical Technician
ENVL	Environmental Unit Leader
EPA	Environmental Protection Agency
ERRS	Emergency and Rapid Response Services
ERT	Emergency Response Team
EU	Environmental Unit
GLNPO	Great Lakes National Program Office
H ₂ S	Hydrogen Sulfide
HASP	Health and Safety Plan
IAP	Incident Action Plan
IC	Incident Commander
ICP	Incident Command Post
IN	Indiana
JIC	Joint Information Center
LEL	Lower Explosive Limit
LNO	Liaison Officer
LSC	Logistics Section Chief
MDA	Michigan Department of Agriculture
MDCH	Michigan Department of Community Health

MDMB	Michigan Department of Management and Budget
MDNRE	Michigan Department of Natural Resources and Environment
MI	Michigan
MIOSHA	Michigan Occupational Safety and Health Administration
MP	Mile Post
NRC	National Response Center
NOAA	National Oceanic and Atmospheric Administration
NPFC	National Pollution Fund Center
OSHA	Occupational Safety and Health Administration
PHMSA	Pipeline and Hazardous Materials Administration
PIO	Public Information Officer
PPE	Personal Protective Equipment
ppm	Parts Per Million
POTW	Publicly Owned Treatment Works
QA/QC	Quality Assurance/Quality Control
RP	Responsible Party
SCAT	Shoreline Contamination Assessment Team
START	Superfund Technical Assessment and Response Team
T&D	Transfer and Disposal
UC	Unified Command
USDA	United States Department of Agriculture
USCG	United States Coast Guard
USDOT	United States Department of Transportation
U.S. EPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
yd ³	Cubic Yards
VOCs	Volatile Organic Compounds

6.0 Source of Additional Information

6.1 Additional Information

For additional information please refer to <http://www.epa.gov/enbridgespill.html>. For sampling analysis data, please see <http://www.epa.gov/enbridgespill/data/datawater.html>.

6.2 Reporting Schedule

SITREPs have been created daily and will continue until the UC establishes a different reporting schedule.

7.0 Situational Reference Materials

See attached figure, entitled “Kalamazoo River/Enbridge Spill Overview Map,” for more information.

