

ATTACHMENT 9 – *EPA POLREPS 1 THROUGH 5*

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region V

Subject: POLREP #1
 Initial
 Kalamazoo River/Enbridge Spill
 Z5JS
 Marshall, MI
 Latitude: 42.2395273 Longitude: -84.9662018

To: David Chung, U.S. EPA
 Jason El-Zein, U.S. EPA
 Duty Officer, NRC
 Michael Chezik, US Department of Interior
 Linda Nachowicz, US EPA
 OSLTF USCG, USCG
 James Rutherford, Calhoun County Health Department
 Connie Gibson, Calhoun County Sheriffs office
 Cheryl Vosburg, City of Marshall
 Jill Slaght, 7th district of Michigan
 Ken Brock, 7th District of Michigan
 Bruce Vanotteren, MDNRE
 Brian Pierzina, PHMSA Central Region
 Thomas Hemminger, USCG Grand Haven
 Ronna Beckmann, U.S. EPA
 CAPT Stephen Torpey, USCG
 Scott Corbin, Allegan County EMA Director

From: Stephen Wolfe, On-Scene Coordinator
 Jeffrey Kimble, On-Scene Coordinator

Date: 7/27/2010

Reporting Period: July 26, 2010 18:00 to July 27, 2010 0600

1. Introduction

1.1 Background

Site Number:	Z5JS	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	OPA	Response Type:	Emergency
Response Lead:	PRP	Incident Category:	Removal Assessment

NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	7/26/2010	Start Date:	7/26/2010
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:	E10527	Reimbursable Account #:	

1.1.1 Incident Category

Emergency Response -- Pipeline Rupture

1.1.2 Site Description

a 30 inch pipeline ruptured releasing its contents (NRC report of 19,500 barrels) into a culvert leading to the Tallmadge Creek. Tallmadge Creek leads to the Kalamazoo River. The site is along the River running from Marshall Michigan to Battle Creek Michigan. The River is bordered by marshland, residential properties, farm land, and commercial properties for the approximate 16 mile stretch of the affected river

1.1.2.1 Location

Spill location origin is in Marshall, Michigan

1.1.2.2 Description of Threat

Crude oil is released from the pipeline and has entered a navigable waterway

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Approximately 16 miles of the Kalamazoo River has been impacted. The River is running higher than normal due to recent heavy rains in the area. Tallmadge Creek has been boomed at the confluence to the Kalamazoo River. Preliminary booming is in place along the Kalamazoo River.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

RP is ordering more response resources (additional Booming, Vac Trucks, Frac Tanks, Tanker Trucks) to arrive mid morning on July 27.

RP is booming 30 miles downstream at Morrow Lake as a collection point.

RP is booming approximately 12 miles downstream on the Kalamazoo River (near BattleCreek) to catch the leading edge of material.

Recovered material is being temporarily stored in frac tanks on site. Tanker trucks are then

transporting the material to another facility of the RP with available storage (Griffith IN, approximately 100 miles).

START is assisting the RP with air monitoring in the residential neighborhoods. Benzene is the contaminant of concern and the ATSDR MRL of 0.09 ppm is being used as an awareness level to trigger additional response actions as necessary (to include evacuations). These air monitoring rounds are being conducted hourly. START deployed AREA RAEs in the residential areas and are datalogging readings for changes in VOCs.

US Fish and Wildlife Service will oversee operations with the capture and cleaning of affected wildlife. As of 23:00 approximately 43 geese were reported dead and an additional 20 oiled geese were affected.

Approximately 6 residential homes have self evacuated due to the odor and the RP is providing lodging.

Calhoun County Health and the Calhoun County Sheriffs Department are providing assistance as requested

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

Enbridge is the PRPs

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>

2.2 Planning Section

2.2.1 Anticipated Activities

Mobe addiitonal equipment (Vac trucks, tanker trucks, boom, etc).

Set additional boom

recover oil from the river

continue air monitoring activities

2.2.1.1 Planned Response Activities

see Anticipated Activities

2.2.1.2 Next Steps

See Anticipated Activities

2.2.2 Issues

The Kalamazoo River is currently running fast due to heavy rains in the area recently affecting booming strategies.

The affected portion of the Kalamazoo River runs through marshland and assessments of the areas need to be performed

The RPs contractors are working on a waiver for the truck drivers to bring additional storage capacity to the site.

RP has been informed that a Superfund site (PCB cleanup) is occurring on the Kalamazoo River Downstream of Morrow Lake (approximately 35 river miles downstream). The PRP has been advised to make all efforts necessary to ensure the oil does not reach the Superfund Site.

2.3 Logistics Section

Planning for 24 hour operations.

Currently 2 OSCs are on staff per rotation (with more expected).

8 STARTS are on staff for day operations and 4 STARTS are on staff for night time operations.

2.4 Finance Section

2.4.1 Narrative

The Oil Spill Liability Trust Fund has been accessed for U.S. EPA expenditures. FPN E10527

US Fish and Wildlife is requesting a PRFA for their activities.

The RP is currently financing the cleanup operations.

2.5 Safety Officer

A 50 foot perimeter has been established as the hot zone near the vac trucks. personnel inside the area are wearing half face air purifying respirators due to benzene content. Workers in the area are using personal monitors for benzene.

A site Specific Health and Safety Plan is being drafted.

2.6 Liaison Officer

2.7 Information Officer

2.7.1 Public Information Officer

RP has a PIO for the project

2.7.2 Community Involvement Coordinator

3. Participating Entities

3.1 Unified Command

Enbridge (Responsible Party)
US EPA
Michigan Department of Natural Resources and Environment

3.2 Cooperating and Assisting Agencies

Calhoun County Sheriff's Department
Calhoun County Public Health Department
US Fish and Wildlife
City of Marshall Health Department
Michigan State Police
Representative for Congressman Mark H. Schauer
Pipeline and Hazardous Materials Administration

4. Personnel On Site

2 OSCs
4 START

RP personnel

5. Definition of Terms

6. Additional sources of information

6.1 Internet location of additional information/reports

6.2 Reporting Schedule

7. Situational Reference Materials

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region V

Subject: POLREP #2
 Kalamazoo River/Enbridge Spill
 Z5JS
 Marshall, MI
 Latitude: 42.2395273 Longitude: -84.9662018

To: David Chung, U.S. EPA
 Jason El-Zein, U.S. EPA
 Duty Officer, NRC
 Michael Chezik, US Department of Interior
 Linda Nachowicz, US EPA
 OSLTF USCG, USCG
 James Rutherford, Calhoun County Health Department
 Connie Gibson, Calhoun County Sheriffs office
 Cheryl Vosburg, City of Marshall
 Jill Slaght, 7th district of Michigan
 Ken Brock, 7th District of Michigan
 Bruce Vanotteren, MDNRE
 Brian Pierzina, PHMSA Central Region
 Thomas Hemminger, USCG Grand Haven
 Ronna Beckmann, U.S. EPA
 CAPT Stephen Torpey, USCG
 Scott Corbin, Allegan County EMA Director

From: Ralph Dollhopf, On-Scene Coordinator
 Stephen Wolfe, On-Scene Coordinator
 Jeffrey Kimble, On-Scene Coordinator

Date: 7/27/2010
Reporting Period: 7/27/2010 0600 - 1400

1. Introduction

1.1 Background

Site Number:	Z5JS	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	OPA	Response Type:	Emergency

Response Lead:	PRP	Incident Category:	Removal Assessment
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	7/26/2010	Start Date:	7/26/2010
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:	E10527	Reimbursable Account #:	

1.1.1 Incident Category

Emergency Response -- Pipeline Rupture

1.1.2 Site Description

A 30 inch pipeline ruptured releasing its contents (NRC report of 19,500 barrels) into a culvert leading to Talmadge Creek. Talmadge Creek leads to the Kalamazoo River. The site is along the River running from Marshall, Michigan to Battle Creek, Michigan. The River is bordered by marshland, residential properties, farm land, and commercial properties for the approximate 16 mile stretch of the affected river between Marshall and Morrow Lake.

1.1.2.1 Location

Spill location origin is in Marshall, Michigan

1.1.2.2 Description of Threat

Crude oil is released from the pipeline and has entered a navigable waterway.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Approximately 16 miles of the Kalamazoo River has been impacted. The River is running higher than normal due to recent heavy rains in the area. Talmadge Creek has been boomed at the confluence to the Kalamazoo River. Preliminary booming is in place along the Kalamazoo River.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

RP has deployed boom and skimming equipment at several locations along Talmadge Creek and the Kalamazoo River.

RP has deployed boom and skimming equipment at the following locations which intersect Talmadge Creek; Division Street; Culvert at I-69; A Drive; and 15 mile Road. RP has also deployed boom and skimming equipment at the following locations which intersect the Kalamazoo River; Wattles Park at I-94; 20th Street; Helmer Road; and at a boat launch south of

City of Augusta.

Recovered material is being temporarily stored in frac tanks on site. Tanker trucks are then transporting the material to another facility of the RP with available storage (Griffith IN, approximately 100 miles).

START is assisting the RP with air monitoring in the residential neighborhoods. Benzene is the contaminant of concern. USEPA is working with ATSDR and Unified Command to establish appropriate health based thresholds. Air monitoring rounds are being conducted hourly. START deployed AREA RAEs in the residential areas and are datalogging readings for changes in VOCs.

US Fish and Wildlife Service will oversee operations with the capture and cleaning of affected wildlife. As of 23:00 approximately 43 geese were reported dead and an additional 20 oiled geese were affected.

Approximately 6 residential homes have self evacuated due to the odor and the RP is providing lodging.

Calhoun County Health and the Calhoun County Sheriffs Department are providing assistance as requested.

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

Enbridge is the PRP.

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>

2.2 Planning Section

2.2.1 Anticipated Activities

RP is planning to identify a location and construct a culvert-dam upstream of Morrow Lake in order to prevent further migration of oil. Implementation of these activities may be delayed because of current Kalamazoo River conditions.

USEPA recommended additional secondary containment construction at Morrow Lake in the event the culvert-dam fails.

Additional locations for deployment of boom and skimming equipment has been proposed at the following locations along the Kalamazoo River; Burnham and Riverside Drive; Ceresco Dam; and the Waste Water Treatment Plant downstream of Helmer Rd.

A request has been made to deploy the 51st Civil Support Team (CST) to provide additional air monitoring and sampling support.

Mobe additional equipment (Vac trucks, tanker trucks, boom, etc).

Recover oil from the river.

Continue air monitoring and sampling activities.

2.2.1.1 Planned Response Activities

See Indicated Activities

2.2.1.2 Next Steps

See Anticipated Activities

2.2.2 Issues

The Kalamazoo River is currently running fast due to recent heavy rains in the area affecting booming strategies and monitoring abilities.

The affected portion of the Kalamazoo River runs through marshland and assessments of the areas need to be performed.

The RPs contractors are working on a waiver for the truck drivers to bring additional storage capacity to the site.

RP has been informed that a Superfund site (PCB cleanup) is occurring on the Kalamazoo River Downstream of Morrow Lake (approximately 35 river miles downstream). The PRP has been advised to make all efforts necessary to ensure the oil does not reach the Superfund Site.

2.3 Logistics Section

Planning for 24 hour operations.

Currently 4 OSCs are on staff for day operations and 2 are on staff for night time rotation (with more expected).

8 STARTS are on staff for day operations and 8 STARTS are on staff for night time operations.

2.4 Finance Section

2.4.1 Narrative

The Oil Spill Liability Trust Fund has been accessed for U.S. EPA expenditures. FPN E10527

US Fish and Wildlife is requesting a PRFA for their activities.

The RP is currently financing the cleanup operations.

2.5 Safety Officer

A 50 foot perimeter has been established as the hot zone near the vac trucks. Personnel inside the area are wearing half face air purifying respirators due to benzene content. Workers in the area are using personal monitors for benzene.

A site Specific Health and Safety Plan is being drafted.

2.6 Liaison Officer

Approximately 20 State, Local, and Federal agencies are participating in the response.

2.7 Information Officer

2.7.1 Public Information Officer

RP has a PIO for the project. EPA PIOs en route.

2.7.2 Community Involvement Coordinator

En route.

3. Participating Entities

3.1 Unified Command

Enbridge (Responsible Party)
 US EPA
 Michigan Department of Natural Resources and Environment
 Michigan State Police Emergency Management Division
 Calhoun County Public Health Department
 Calhoun County Sheriff

3.2 Cooperating and Assisting Agencies

Calhoun County Sheriff Department
 Calhoun County Public Health Department
 US Fish and Wildlife
 City of Marshall Health Department
 Michigan State Police
 Pipeline and Hazardous Materials Administration
 Michigan Department of Community Health
 Agency for Toxic Substances and Disease Registry

A request has been made to the 51st Civil Support Team for additional air monitoring

assistance.

The USCG will be on scene to assist on July 28, 2010

4. Personnel On Site

2 OSCs
4 START

RP personnel

5. Definition of Terms

6. Additional sources of information

6.1 Internet location of additional information/reports

6.2 Reporting Schedule

POLREP #3 will be distributed with updated information shortly.

7. Situational Reference Materials

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region V

Subject: POLREP #3
 Kalamazoo River/Enbridge Spill
 Z5JS
 Marshall, MI
 Latitude: 42.2395273 Longitude: -84.9662018

To: David Chung, U.S. EPA
 Jason El-Zein, U.S. EPA
 Duty Officer, NRC
 Michael Chezik, US Department of Interior
 Linda Nachowicz, US EPA
 OSLTF USCG, USCG
 James Rutherford, Calhoun County Health Department
 Connie Gibson, Calhoun County Sheriffs office
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 Bruce Vanotteren, MDNRE
 Brian Pierzina, PHMSA Central Region
 Thomas Hemminger, USCG Grand Haven
 Ronna Beckmann, U.S. EPA
 CAPT Stephen Torpey, USCG
 Scott Corbin, Allegan County EMA Director

From: Ralph Dollhopf, On-Scene Coordinator
 Stephen Wolfe, On-Scene Coordinator
 Jeffrey Kimble, On-Scene Coordinator

Date: 7/28/2010

Reporting Period:

1. Introduction

1.1 Background

Site Number:	Z5JS	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	OPA	Response Type:	Emergency
Response Lead:	PRP	Incident Category:	Removal Assessment

NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	7/26/2010	Start Date:	7/26/2010
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:	E10527	Reimbursable Account #:	

1.1.1 Incident Category

Emergency Response -- Pipeline Rupture

1.1.2 Site Description

A 30 inch pipeline ruptured releasing its contents (NRC report of 19,500 barrels) into a culvert leading to Talmadge Creek. Talmadge Creek leads to the Kalamazoo River. The site is along the River running from Marshall, Michigan to Battle Creek, Michigan. The River is bordered by marshland, residential properties, farm land, and commercial properties for the approximate 30 mile stretch of the affected river.

1.1.2.1 Location

Spill location origin is in Marshall, Michigan

1.1.2.2 Description of Threat

Crude oil is released from the pipeline and has entered a navigable waterway.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Approximately 30 miles of the Kalamazoo River have been impacted. The Kalamazoo River level is higher than normal because of recent heavy rain in the area impacting boom deployment and site monitoring activities. Talmadge Creek has been boomed at the confluence to the Kalamazoo River. Booms have been placed in several locations along the Kalamazoo River. Precautionary boom has also been deployed in Morrow Lake.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

USEPA has mobilized ERRS contractors to provide additional resources for personnel and oil skimming, containment, and recovery activities. Currently USEPA ERRS contractors have deployed 2,000 feet of boom.

RP has deployed boom and skimming equipment at a minimum of 17 locations along Talmadge Creek and the Kalamazoo River. Booms and skimming equipment have been deployed at 3 new locations. The RP has plans to deploy boom at several other locations depending on access.

Recovered material is being temporarily stored in frac tanks on site. Tanker trucks are then transporting the material to another facility of the RP with available storage (Griffith IN, approximately 100 miles). To date approximately 98,000 gallons of oil/water has been recovered, the amount of crude oil recovered is not known at this time.

No sheen has been observed on Morrow Lake at this time.

START is monitoring air quality along the river and throughout residential areas. Monitoring equipment includes UltraRAE, PPB RAE, Multi RAE, Draeger CMS Chip Reader, and AreaRAE. The 51st Civil Support Team is providing air monitoring assistance as well as air sampling expertise. The RP has contracted with CTEH to perform air monitoring services along the affected area.

US Fish and Wildlife Service is working with the wildlife team to address wildlife impacts. Rescue relocation areas have been sent up and a rehabilitation center for oiled animals will be in place by Thursday July 29, 2010.

The USCG Atlantic Strike Team is on scene to provide assistance with PRP and contractor oversight.

Governor Granholm and U.S. Congressman Schauer were on site.

Calhoun County Health and the Calhoun County Sheriffs Department are providing assistance as requested.

NTSB and USDOT-PHMSA are on site conducting an investigation of the pipeline incident and are working with the appropriate State, Local, and Federal agencies.

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

Enbridge is the PRP.

On July 27, 2010, USEPA issued an Administrative Order under section 311(c) of the Clean Water Act to Enbridge. Enbridge is actively addressing all the deliverables of the Order including but not limited to; drafting an overall site work plan; health and safety plan; and sampling and analysis plan.

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>

2.2 Planning Section

2.2.1 Anticipated Activities

The RP is planning to boom an additional one to five locations depending on access.

USEPA contractors will continue deploying additional resources and setting boom.

Continue to recover oil from the river.

Continue air monitoring and sampling and water sampling.

2.2.1.1 Planned Response Activities

See Anticipated Activities

2.2.1.2 Next Steps

See Anticipated Activities

2.2.2 Issues

The Kalamazoo River level is higher than normal because of recent heavy rain in the area impacting boom deployment and site monitoring activities.

RP has been informed that a Superfund site (PCB cleanup) is occurring on the Kalamazoo River Downstream of Morrow Lake (approximately 35 river miles downstream). The RP has been advised to make all efforts necessary to ensure the oil does not reach the Superfund Site. The City of Plainwell, Michigan has proposed a strategy involving boom diversion and oil collection as a contingency in the event oil impacts the Superfund Site.

2.3 Logistics Section

We are supporting twenty four hour operations.

Currently seven OSCs and seven IMT and management are covering day and night operations. A full IMT is expected on Thursday July 29, 2010. Sixteen START contractors are on staff for day and night operations.

2.4 Finance Section

2.4.1 Narrative

The Oil Spill Liability Trust Fund has been accessed for U.S. EPA expenditures. FPN E10527

US Fish and Wildlife and the USCG have received a PRFA for their activities.

The RP is currently financing the cleanup operations.

2.5 Safety Officer

A 50 foot perimeter has been established as the hot zone around each vac truck. Personnel inside the area are wearing half face air purifying respirators due to benzene content. Workers in the area are using personal monitors for benzene.

US EPA is assisting the RP with drafting a site Specific Health and Safety Plan.

2.6 Liaison Officer

Approximately 20 State, Local, and Federal agencies are participating in the response.

2.7 Information Officer

2.7.1 Public Information Officer

RP has identified a PIO for the project. US EPA has mobilized 2 PIOs for the project.

2.7.2 Community Involvement Coordinator

3. Participating Entities

3.1 Unified Command

Enbridge (Responsible Party)
 US EPA
 Michigan Department of Natural Resources and Environment
 Michigan State Police Emergency Management Division
 Calhoun County Public Health Department
 Calhoun County Sheriff

3.2 Cooperating and Assisting Agencies

US Fish and Wildlife
 City of Marshall Health Department
 Pipeline and Hazardous Materials and Safety Administration
 The 51st Civil Support Teamstance
 USCG

4. Personnel On Site

EPA OSCs	EPA IMT	START
7	7	16

5. Definition of Terms

6. Additional sources of information

6.1 Internet location of additional information/reports

6.2 Reporting Schedule

7. Situational Reference Materials

U.S. ENVIRONMENTAL PROTECTION AGENCY
 POLLUTION/SITUATION REPORT
 Enbridge Pipeline Crude Release - Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region V**

**Subject: POLREP #4
 Enbridge Pipeline Crude Release
 Z5JS
 Marshall, MI
 Latitude: 42.2395273 Longitude: -84.9662018**

To: Brian Schlieger, U.S. EPA
 Stephen Wolfe, U.S. EPA
 David Chung, U.S. EPA
 Jason El-Zein, U.S. EPA
 Mick Hans, U.S. EPA
 Jeff Kimble, USEPA
 Duty Officer, NRC
 John Maritote, U.S. EPA
 Carol Ropski, U.S. EPA
 William Messenger, U.S. EPA ERB
 Michael Chezik, US Department of Interior
 Charles Gebien, US EPA
 John Glover, US EPA
 Beverly Kush, US EPA
 Linda Nachowicz, US EPA
 OSLTF USCG, USCG
 Mark Horwitz, USEPA
 Mark Durno, U.S. EPA
 Jeff Kelley, USEPA
 Sue Hauxwell, Calhoun County Public Health
 Joe Frost, Calhoun County Health Department
 James Rutherford, Calhoun County Health Department
 Connie Gibson, Calhoun County Sheriffs office
 Cheryl Vosburg, City of Marshall
 Jill Slaght, 7th district of Michigan
 Ken Brock, 7th District of Michigan
 Bruce Vanotteren, MDNRE
 Brian Pierzina, PHMSA Central Region
 Dan Capone, Weston Solutions
 verneta simon, U.S. EPA
 Thomas Hemminger, USCG Grand Haven
 Ralph Dollhopf, US EPA
 James Saric, USEPA

Dave Novak, U.S. EPA Region V
 Ann Whelan, U.S. EPA
 Ronna Beckmann, U.S. EPA
 CAPT Stephen Torpey, USCG
 Scott Corbin, Allegan County EMA Director

From: Ralph Dollhopf, On-Scene Coordinator
 Stephen Wolfe, On-Scene Coordinator
 Jeffrey Kimble, On-Scene Coordinator

Date: 7/29/2010

Reporting Period: 7/28/2010 1800 hrs. 7/29/2010 1800

1. Introduction

1.1 Background

Site Number:	Z5JS	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	OPA	Response Type:	Emergency
Response Lead:	PRP	Incident Category:	Removal Assessment
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	7/26/2010	Start Date:	7/26/2010
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:	E10527	Reimbursable Account #:	



1.1.1 Incident Category

Emergency Response -- Pipeline Rupture

1.1.2 Site Description

A 30 inch pipeline ruptured releasing its contents (NRC report of 19,500 barrels) into a culvert leading to Talmadge Creek. Talmadge Creek leads to the Kalamazoo River. The site is along the River running from Marshall, Michigan to Battle Creek, Michigan. The River is bordered by marshland, residential properties, farm land, and commercial properties for the approximate 30 mile stretch of the affected river.

1.1.2.1 Location

Spill location origin is in Marshall, Michigan on Talmadge Creek and extends 30 miles down

the Kalamazoo River.

1.1.2.2 Description of Threat

Western Canadian crude oil was released from the pipeline and has entered a navigable waterway.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Approximately 30 miles of the Kalamazoo River have been impacted. The Kalamazoo River level is higher than normal because of recent heavy rain in the area impacting boom deployment and site monitoring activities. The River levels are beginning to fall. Talmadge Creek has been boomed at the confluence to the Kalamazoo River and seem to be containing the oil still behind them. Boom has been placed in seventeen locations along the Kalamazoo River. Precautionary boom has also been deployed in Morrow Lake.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

USEPA ERRS contactors have deployed 2,000 feet of boom. The RP has deployed boom and skimming equipment at seventeen locations along Talmadge Creek and the Kalamazoo River. Recovered material is being temporarily stored in frac tanks on site. Tanker trucks are transporting the material to a facility owned by the RP with available storage in Griffith IN. To date approximately 2874 barrels of oil/water has been recovered Griffith IN. 16190 barrels has been collected and is being stored in frac tanks for future transport. No sheen has been observed on Morrow Lake to date.

START is monitoring air quality along the river and throughout residential areas. Monitoring equipment includes UltraRAE, PPB RAE, Multi RAE, Draeger CMS Chip Reader, and AreaRAE. The 51st Civil Support Team is providing air monitoring and sampling assistance by use of Hapsite portable GC/MS. The RP has contracted with CTEH to perform air monitoring services along the affected area.

US Fish and Wildlife Service is working with the wildlife team to address wildlife impacts. A rehabilitation center for oiled wildlife has been established and twenty three birds, mammals and turtles were brought in for cleaning.

The USCG Atlantic Strike Team is on scene to provide assistance with PRP and contractor oversight. Eight additional District 9 USCG staff arrived and were integrated into the response.

Several State Representatives and the Michigan Attorney General visited the site today.

NTSB and USDOT-PHMSA are on site conducting an investigation of the pipeline incident and are working with the appropriate State, Local, and Federal agencies.

Calhoun County Health Department in consultation with Michigan Department of Community Health and Agency for Toxic Substances and Disease Registry has issued a voluntary evacuation for several residences located immediately downstream of the spill site along the Talmadge Creek up to the confluence with the Kalamazoo River. This voluntary evacuation was based on review of air monitoring results for benzene around oil collection areas.

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

Enbridge is the PRP.

On July 27, 2010, USEPA issued an Administrative Order under section 311(c) of the Clean Water Act to

Enbridge. Enbridge is actively addressing all the deliverables of the Order including but not limited to; drafting an overall site work plan; health and safety plan; and sampling and analysis plan.

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>

2.2 Planning Section

2.2.1 Anticipated Activities

The RP is not planning to boom any additional sites but will augment the existing ones and work to collect more of the oil. USEPA contractors will continue deploying additional resources and setting boom.

Continue air monitoring and sampling at collection points, near residential areas and in response to odor complaints.

Collect water samples from Kalamazoo river upstream and downstream of Talmedge Creek.

2.2.2 Issues

The Kalamazoo River level is higher than normal because of recent heavy rain in the area impacting boom deployment and site monitoring activities. The water levels are falling.

RP has been informed that a Superfund site (PCB cleanup) is occurring on the Kalamazoo River Downstream of Morrow Lake (approximately 35 river miles downstream). The RP has been advised to make all efforts necessary to ensure the oil does not reach the Superfund Site. The City of Plainwell, Michigan has proposed a strategy involving boom diversion and oil collection as a contingency in the event oil impacts the Superfund Site.

2.3 Logistics Section

We are supporting twenty four hour operations.

Air monitoring support trailers are moving from the Enbridge Operations Center to the Walters Grade School.

Below is the equipment and staff deployed by Enbridge.

		Total
Employees	Enbridge	31
	Contractors	252
	Vacuum Trucks	45

Major Resources	Skimmers	19
	Tanker Trucks	16
	Air Compressors	13
	Light Plants	38
	Trailers	11
	Trash Pumps	6
	Frac Tanks	64
	Boats	24
Length of Boom Deployed in River	Containment Boom (ft)	12,270
	Absorbent (ft)	8,240
	Total boom deployed	20,510
Length of Boom Available by River	Containment Boom (ft)	6,000
	Absorbent (ft)	
Length of Boom Available in Yard	Containment Boom (ft)	2,520
	Absorbent (ft)	
	Rate of Recovery (gph)	15,417
Total Recovery (oil & water)	Marshall (bbls)	19,460
	Griffith (bbls)	3,280

2.4 Finance Section

2.4.1 Narrative

The Oil Spill Liability Trust Fund has been accessed for U.S. EPA expenditures. FPN E10527. They are funding the response in two million dollar increments. At the current burn rate, we will need to request an increase in funding in ten days.

US Fish and Wildlife and the USCG have received a PRFA for their activities.

The RP is currently financing the cleanup operations.

2.5 Safety Officer

A 50 foot perimeter has been established as the hot zone around each vac truck. Personnel inside the area are wearing half face air purifying respirators due to benzene content. Workers in the area are using personal monitors for benzene.

US EPA is assisting the RP with drafting a site Specific Health and Safety Plan.

The Safety Officer visited several Divisions to monitor booming operations. The Safety Officer also took air monitoring readings at the Wildlife Rehabilitation Center at the request of Michigan Department of Agriculture. No significant VOCs were detected.

2.6 Liaison Officer

Approximately 30 State, Local, and Federal agencies are participating in the response.

2.7 Information Officer

2.7.1 Public Information Officer

The PIO

- Fielded several dozen calls from reporters in Michigan, Ontario, Washington D.C., and several other Great Lakes States
- Established elements of Joint Information Center with Michigan Agencies including the Governor's Office, Enbridge and Calhoun County Agencies
- Coordinated with EPA Headquarters Office of Public Affairs and EPA Region 5 Office of Public Affairs
- Coordinated a media briefing in Battle Creek, MI covered by 15-20 reporters both on-scene and by conference line.
- Initiated discussion of establishing a permanent media briefing location at a nearby location.

2.7.2 Community Involvement Coordinator

- Initiated planning for public meeting/availability session on Saturday afternoon at a nearby location.
- Held first briefing call with Michigan environmental groups to provide situation update.
- Assessed needs for ongoing public information in communities immediately affected by the spill.
- Fielded approximately a dozen calls forwarded by other parties in the response.

3. Participating Entities

3.1 Unified Command

Enbridge (Responsible Party)
 US EPA
 Michigan Department of Natural Resources and Environment
 Michigan State Police Emergency Management Division
 Calhoun County Public Health Department
 Calhoun County Sheriff

3.2 Cooperating and Assisting Agencies

Cooperating Agencies

American Red Cross
 Augusta Police Department
 B&B Fire Safety Emergency Response
 Calhoun Conservation District
 Calhoun County Commissioners
 Calhoun County Drain Commission
 Calhoun County Sheriff's Office
 Calhoun Conservation District
 Calhoun Greenation District
 City of Battle Creek, Michigan
 City of Marshall, Michigan
 Federal Energy Regulatory Commission
 Fredonia Township Fire Department
 Huron Potawatomi
 Kalamazoo County Office of Emergency Management

Kalamazoo County Sheriff's Office
 Kalamazoo Public Safety
 Marshall Township Government and Fire Department
 Marshall Police Department
 Natural Resource Group
 National Transportation Safety Board
 Pipeline Hazardous Materials Safety Administration
 U.S. Department of Transportation
 U.S. Fish & Wildlife Service
 U.S. Department of Labor, OSHA

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 Stabenow

4. Personnel On Site

EPA OSCs	EPA IMT/RSC/MGMT	START
10	18	23

5. Definition of Terms

6. Additional sources of information

6.1 Internet location of additional information/reports

6.2 Reporting Schedule

7. Situational Reference Materials

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region V

Subject: POLREP #5
 Kalamazoo River/Enbridge Spill
 Z5JS
 Marshall, MI
 Latitude: 42.2395273 Longitude: -84.9662018

To: David Chung, U.S. EPA
 Jason El-Zein, U.S. EPA
 Duty Officer, NRC
 Michael Chezik, US Department of Interior
 Linda Nachowicz, US EPA
 OSLTF USCG, USCG
 James Rutherford, Calhoun County Health Department
 Connie Gibson, Calhoun County Sheriffs office
 Cheryl Vosburg, City of Marshall
 Jill Slaght, 7th district of Michigan
 Ken Brock, 7th District of Michigan
 Bruce Vanotteren, MDNRE
 Brian Pierzina, PHMSA Central Region
 Thomas Hemminger, USCG Grand Haven
 Ronna Beckmann, U.S. EPA
 CAPT Stephen Torpey, USCG
 Scott Corbin, Allegan County EMA Director

From: Ralph Dollhopf, On-Scene Coordinator
 Stephen Wolfe, On-Scene Coordinator
 Jeffrey Kimble, On-Scene Coordinator

Date: 7/30/2010

Reporting Period: 7/29/2010 1900 hrs. 7/29/2010 1900

1. Introduction

1.1 Background

Site Number:	Z5JS	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	OPA	Response Type:	Emergency
Response Lead:	PRP	Incident Category:	Removal Assessment

NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	7/26/2010	Start Date:	7/26/2010
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:	E10527	Reimbursable Account #:	



1.1.1 Incident Category

Emergency Response -- Pipeline Rupture

1.1.2 Site Description

A 30 inch pipeline ruptured releasing its contents (NRC report of 19,500 barrels) into a culvert leading to Talmadge Creek. Talmadge Creek leads to the Kalamazoo River. The site is along the River running from Marshall, Michigan to Battle Creek, Michigan. The River is bordered by marshland, residential properties, farm land, and commercial properties for the approximate 30 mile stretch of the affected river.

1.1.2.1 Location

Spill location origin is in Marshall, Michigan on Talmadge Creek and extends 30 miles down the Kalamazoo River.

1.1.2.2 Description of Threat

Western Canadian crude oil was released from the pipeline and has entered a navigable waterway.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Approximately 30 miles of the Kalamazoo River have been impacted. The Kalamazoo River level is higher than normal because of recent heavy rain in the area impacting boom deployment and site monitoring activities. The River levels are continuing to fall. Talmadge Creek has been boomed at the confluence to the Kalamazoo River and seem to be containing the oil still behind them. Boom has been placed in twenty two locations along the Kalamazoo River. Precautionary boom has also been deployed in Morrow Lake.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

USEPA ERRS contactors have deployed 14,000 feet of boom. The RP has deployed 23,000 feet boom and skimming equipment at seventeen locations along Talmage Creek and the Kalamazoo River. Recovered material is being temporarily stored in frac tanks on site. Tanker trucks are transporting the material to a facility owned by the RP with available storage in Griffith IN. To date, approximately 6303 barrels of oil/water has been recovered and has been transported to an Enbridge facility in Griffith, IN. 27,500 barrels have been collected and are being stored in frac tanks for future transport. No sheen has been observed on Morrow Lake to date.

START, the CST and Enbridge contractor CTEH are monitoring and sampling air quality along the river and throughout residential areas. Monitoring equipment includes UltraRAE, PPB RAE, Multi RAE, Draeger CMS Chip Reader, AreaRAE and Hapsite portable GC/MS.

Samples were collected to analysis from surface water, water column and private drinking wells along the length of the impacted areas of the Kalamazoo River and areas downstream of the Morrow Lake Dam. In addition, sediment samples were taken from Morrow Lake.

US Fish and Wildlife Service is working with the wildlife team to address wildlife impacts. A rehabilitation center for oiled wildlife has been established and two hundred animals were being investigated and/or collected rescue cleaning.

The USCG Atlantic Strike Team is on scene to provide assistance with PRP and contractor oversight. Eight additional District 9 USCG staff arrived and were integrated into the response.

Governor Granholm and Administrator Jackson visited the site.

NTSB and USDOT-PHMSA are on site conducting an investigation of the pipeline incident and are working with the appropriate State, Local, and Federal agencies.

The voluntary evacuation issued by Calhoun County Health Department in consultation with Michigan Department of Community Health and Agency for Toxic Substances and Disease Registry remains effect for several residences located immediately downstream of the spill site along the Talmadge Creek up to the confluence with the Kalamazoo River. This voluntary evacuation was based on review of air monitoring results for benzene around oil collection areas. Sixty one residences were given notices. Twelve residences evacuated., twenty seven chose to stay and twenty two did not answer. This is in addition to the residences that self evacuated at the beginning of the spill

Issues

Some boom and boats are oiled and have not been cleaned since the beginning of the incident.

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

Enbridge is the PRP.

On July 27, 2010, USEPA issued an Administrative Order under section 311(c) of the Clean Water Act to Enbridge. Enbridge is actively addressing all the deliverables of the Order including but not limited to; drafting an overall site work plan; health and safety plan; and sampling and analysis plan.

2.2 Planning Section

Received draft air sampling plan by CTEH for review. Contacted reviewers and consulted with ATSDR, MDCH, Weston Contractors and others to consolidate comments on the air sampling plan. Review maps with OSHA and MIOSHA. Schedule meetings with CTEH and MDCH to discuss comments and provide "decision tree" for air sampling in affected area.

Reviewed comments on 4 Enbridge plans, including Workplan and "schedule", Oil containment and Recovery plan, Remediation Plan for downstream impacted areas and Sampling and analysis plan (for water and sediment). Prepared comments and memo for IC signature.

Reviewed and commented on Enbridge Water and Sediment Sampling Plan and provided comments to MDNRE for their review.

Requested water sampling results from Enbridge. Enbridge provided Excel file. EPA responded with a request for specific location information and more details on water samples.

Continue air monitoring and sampling at collection points, near residential areas and in response to odor complaints.

Collect water samples from Kalamazoo river upstream and downstream of Talmedge Creek.

2.2.2 Issues

The Kalamazoo River level is higher than normal because of recent heavy rain in the area impacting boom deployment and site monitoring activities. The water levels are falling.

RP has been informed that a Superfund site (PCB cleanup) is occurring on the Kalamazoo River Downstream of Morrow Lake (approximately 35 river miles downstream). The RP has been advised to make all efforts necessary to ensure the oil does not reach the Superfund Site. The City of Plainwell, Michigan has proposed a strategy involving boom diversion and oil collection as a contingency in the event oil impacts the Superfund Site.

2.3 Logistics Section

We are supporting twenty four hour operations.

Logistics Chief investigated alternate space that would house personnel for the entire incident. Enbridge moved some of their command staff to the Walter School. A JIC was created at the Walter School.

Communications Unit

The Mobile Command Vehicle was transported to the Fish and Wildlife building to support wireless access. All networking issues are resolved for the Mobile Command Post (GIS). Two plotters are operational. Systems are up and running.

Below is the equipment and staff deployed.

EPA personnel and contractors are totals Enbridge numbers are for resources on the River only	Enbridge	35
	Enbridge Contractors	366
	EPA	32
	EPA Contractors	83
	Night crew total	182
	Grand Total Workers on River	647
	Vacuum Trucks	71
	Skimmers	39
	Tanker Trucks	17
	Air Compressors	25

Major Resources	Light Plants	53
	Trailers	25
	Trash Pumps	6
	Frac Tanks	77
	Boats	39
	Control point count	28
Length of Boom Deployed in River	Containment Boom (ft)	29,575
	Absorbent (ft)	21,515
	Total boom deployed	51,090
Length of Boom Available by River	Containment Boom (ft)	6,000
	Absorbent (ft)	
Length of Boom Available in Yard	Containment Boom (ft)	2,520
	Absorbent (ft)	
Total Recovery (oil & water)	Marshall (bbls)	29,029

2.4 Finance Section

2.4.1 Narrative

The Oil Spill Liability Trust Fund has been accessed for U.S. EPA expenditures. FPN E10527. We have been authorized at 3.3 million. At the current burn rate, we will need to request an increase in funding in three to four days.

Headquarters has worked with other Regions and as a result, Region 5 has expanded its budget authority to cover the spill for the near future. We are waiting for the USCG to authorize use of some or all of the funding.

US Fish and Wildlife, ATSDR and the USCG have received a PRFA for their activities.

The RP is currently financing the cleanup operations.

2.5 Safety Officer

The Safety Officer met and provided orientation to representatives from U.S. OSHA and Michigan OSHA. They coordinated their activities for the day and decided that MIOSHA representatives would conduct air monitoring at oil spill booming and recovery sites and US EPA and US OSHA would conduct air monitoring at the spill location site (Division A) and would respond to a request from Michigan Department of Agriculture to visit the wildlife rehabilitation site and advise them on the type of Personal Protective Equipment they should wear.

The US EPA Safety Officer and two representatives of US OSHA visited the wildlife rehabilitation area and observed some wildlife cleaning activities. They recommended to Michigan Department of Agriculture that the workers wear eye protection and protective coveralls during cleaning operations, and that full face shields were optional.

The US EPA and OSHA team then visited the Division A spill site and conducted air

monitoring with an UltraRAE benzene monitor and a multiRAE five-sensor monitor, which was calibrated to test for oxygen, carbon monoxide, hydrogen sulfide, lower explosive limit and VOC content. An OSHA inspector suited up in fire-retardant clothing, entered the hot zone, and determined that the benzene concentrations were as high as 5.4 parts per million. This concentration exceeds the short term exposure limit (STEL) of 5 ppm, which requires workers in the hot zone to wear half-face respirators with organic vapor cartridges. The inspector did observe that the workers were wearing half-face respirators. The workers at the Division A location were Enbridge contractors. The team had a conversation at the Division A site with Enbridge's safety officers and reported our findings to them. They agreed that the contractors would continue to wear half-face respirators.

Field Observers observed workers not in PPE. Supervisor was advised of PPE requirements.

2.6 Liaison Officer

The Liaison Officer was dispatched to work in the State Emergency Operations Center in Lansing.

2.7 Information Officer

2.7.1 Public Information Officer

Held daily press briefing.

Disseminated three media advisories about press briefing and Administrator's visit to incident.

Fielded numerous calls from local and national media. joined EPA staff on RV Mudpuppy on Morrow Lake.

Detroit Free Press reporter and photographer a public meeting in the next couple of days.

Conference call briefing held with stakeholders.

Community Involvement Coordinator

Community Involvement Coordinators are planning a public meeting in the next couple of days.

3. Participating Entities

3.1 Unified Command

Enbridge (Responsible Party)

US EPA

Michigan Department of Natural Resources and Environment

Michigan State Police Emergency Management Division

Calhoun County Public Health Department

Calhoun County Sheriff

Kalamazoo County Sheriff

3.2 Cooperating and Assisting Agencies

Cooperating Agencies

Allegan County Emergency Management

American Red Cross

-
[Augusta Police Department](#)
[B&B Fire Safety Emergency Response](#)
[Calhoun Conservation District](#)
[Calhoun County Commissioners](#)
[Calhoun County Drain Commission](#)
[Calhoun County Sheriff's Office](#)
[Calhoun County Treasurers Office](#)
[Calhoun Conservation District](#)
[Calhoun Greenation District](#)
[City of Battle Creek, Michigan](#)
[City of Marshall, Michigan](#)
[Federal Energy Regulatory Commission](#)
[Fredonia Township Fire Department](#)
[Huron Potawatomi](#)
[Kalamazoo County Office of Emergency Management](#)
[Kalamazoo County Sheriff's Office](#)
[Kalamazoo Public Safety](#)
[Kalamazoo Watershed Council](#)
[Marshall Township Government and Fire Department](#)
[Marshall Police Department](#)
[Natural Resource Group](#)
[National Transportation Safety Board](#)
[Pipeline Hazardous Materials Safety Administration](#)
[U.S. Department of Commerce, NOAA](#)
[U.S. Department of Transportation](#)
[U.S. Fish & Wildlife Service](#)
[U.S. Department of Labor, OSHA](#)

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Congressional Presence

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[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 Stabenow](#)

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4. Personnel On Site

EPA OSCs	EPA IMT/RSC/MGMT	START	ERRS
14	18	23	60

5. Definition of Terms

6. Additional sources of information

6.1 Internet location of additional information/reports

6.2 Reporting Schedule

7. Situational Reference Materials