Mobil Pipe Line Company

Emergency Response Plan

Midwest Response Zone
Appendix Manual
PHMSA Sequence Number 100

Volume 2

Copy No.

PHMSA Sequence Number 100

FRP Review & Revision Logs

In This Section

PHMSA Sequence Number 100

FRP Review Log

FRP Review Log

Assigned location of this manual is: Headquarters - Houston, Texas

Common reference to all copies.

The individual(s) designated to review this manual is:

Title of Identified Reviewer: Emergency Preparedness & Response Advisor

(Print title)

Name of Identified Reviewer: John W. Dunn, III

(Print name)

This manual was reviewed as indicated below:

Name	Date	Remarks
John W. Dunn, III	11-8-02	New Manual. Reviewed, reformatted and revised entire manual.
John W. Dunn, III	11-4-03	Reviewed and revised manual.
John W. Dunn, III	11-16-04	Reviewed and revised manual.
John W. Dunn, III	11-30-05	Reviewed, reformatted and revised entire manual.
John W. Dunn, III	May 2006	Reviewed and revised manual.
John W. Dunn, III	March 2007	Reviewed and revised manual
John W. Dunn, III	April 2008	Reviewed and revised manual.
John W. Dunn, III	June 2009	Reviewed and revised manual.
T.J. Logsdon	March 2010	Reviewed and revised manual.
T.J. Logsdon and John Dunn	September 2010	Reviewed and revised manual.
T.J. Logsdon and John Dunn	August 2011	Reviewed and revised manual.

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John Dunn	December 2011	Revised Manual
John Dunn	March 2012	Reviewed and revised see revision log
JA Dulle/JT Budde	November 2013	Reviewed and revised see revision log
SS Catron/JT Budde	August 2014	Reviewed and revised see revision log

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FRP Revision Log

FRP Revision Log

Assigned location of this manual is: Headquarters - Houston, Texas

This manual was revised as indicated below:

Name	Date	Revision Number	Sections Revised
John W. Dunn, III	11-4-03	#1	Section 11 and section 12, updated names and phone numbers
John W. Dunn, III	11-16-04	#2	Section 11 and section 12, updated names and phone numbers
John W. Dunn, III	11-30-05	#3	Added Review Change Log sheets
		Section 11	Section 11, updated names and phone numbers, added tank table, Changed WCD volume.
		Section 12	Updated General Notification Flowchart, Updated Names and Phone numbers.
		Section 13	Updated Equipment Lists, OSRO and Contractor list
		Section 14	New WCD Scenario and location, OLD WCD became alternate scenario.
		Section 15	Reformatted

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		Map Section	Added new section with maps of entire system.
John W. Dunn, III		May 2006 #4	Section 11, Added Mustang reference on page one, Revised PL chart on page 2 and tank table on page 3, plan not reprinted
John W. Dunn, III		January 2007, #5	Section 12, Updated Contact list., plan not reprinted
John W. Dunn, III		March 2007, #6	Section 12, Updated Contact list., plan not reprinted
John W. Dunn, III		Oct 2007, #7	Section 11 & 12, Updated Contact list due to QI change, Reprinted sections 11 & 12
T.J. Logsdon		**Oct 2007**	**Section 1, Page 3** **Change Patoka to Joliet 20" to Patoka to Joliet 18".**
T.J. Logsdon		**Oct 2007**	**Section 11, Page 1** **Change 20" to Patoka to Joliet 18".** **Also remove Pager numbers for Dave Welsh and John Nestleroad.**

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T.J. Logsdon	**Oct 2007**	**Section 11, Page 3: Change QI to Dave Welsh. Remove pager numbers from Dave Welsh, John Nestleroad. Change Safety Officer to Chase Hyde and change contact numbers to: Office:618-432-7742 Cell: (b) (6) [redacted] No pager number. Change Administrative Supervisor and Documentation Tech to: Jennifer Picasso Office: 618-432-7372. No cell number, no pager number. Home number (b) (6) [redacted]**
John W. Dunn, III	April 2008, #8	Section 11 Updated Contact Lists
John W. Dunn, III	April 2008, #8	Section 12 Updated Contact Lists
John W. Dunn, III	April 2008, #8	Section 13 Updated USCG Classified OSRO List
John W. Dunn, III	June 2009, #9	Section 11 Updated Contact Lists
John W. Dunn, III	June 2009, #9	Section 12 Updated Contact Lists
John W. Dunn, III	June 2009, #9	Section 13 Updated Contractor contact numbers

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John W. Dunn, III		June 2009, #9	Section 14, no changes
John W. Dunn, III		June 2009, #9	Section 15, no changes
T.J. Logsdon		March 2010	Section 11: Updated QIN Names / Numbers. Changed wording to read "Patoka to Corsicana #1-20". Changed Pratt County to Piatt County.
T.J. Logsdon		March 2010	Section 12: Updated QIN Names / Numbers in table. Updated all contacts/numbers in directories.
T.J. Logsdon		March 2010	Section 13: Updated contacts/numbers in tables.
T.J. Logsdon	#10	March 2010	Section 14: No changes.
T.J. Logsdon		March 2010	Section 15: Added contact numbers for Perryville Water Supply (on page 1 and page 41). Changed a couple of "Dallas" to Houston, Texas. Changed to MP 629.70 on page 53.
John W. Dunn, III	#11	April 2010	Section 13, Removed Company Owned equipment.

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T.J. Logsdon & John W. Dunn, III	#12	September 2010	Section 11, updated contact list and corrected spelling of Piatt County
T.J. Logsdon & John W. Dunn, III	#12	September 2010	Section 12, updated contact list
T.J. Logsdon & John W. Dunn	#12	September 2010	Section 13 No updates required
T.J. Logsdon & John W. Dunn	#12	September 2010	Section 14 No updates required
T.J. Logsdon & John W. Dunn	#12	September 2010	Section 15 No updates required
John W. Dunn	#13	August 2011	Section 11 No updates required
John W. Dunn	#13	August 2011	Section 12 updated contact list, Corrected name of State Agency
	#13	August 2011	Section 13 No updates required
	#13	August 2011	Section 14 No updates required
	#13	August 2011	Section 15 No updates required
John W Dunn	#14	December 2011	Revised Section 12, General Notification Flowchart and added IL and MO Notification Logs
John W Dunn	#15	March 2012	Revised Section 12, Extended Contact list Update

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Jake Dulle/JT Budde	#16	November, 2013	Section 11 Updated QI, Section 12 Updated QI and Extended Response Team Information
SS Catron/JT Budde	17	September, 2014	Updated EMPRT, updated QI, and Emerg. Call list, OSRO list USCG OSRO certs. Worst case scenario added anal for PL and spill historyw

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Section 11 Response Zone Summary

In This Section

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Operator Address

CFR §194.113(b)(1)

Mobil Pipeline Company
800 Bell Street, PL-EMB-603G
Houston, Texas 77002

Emergency Hotline (24 hours): (888) 337-5002 HOCC

Except for the Lockport to Patoka 18", Mustang Pipeline is the owner/operator of the Patoka to Joliet 18" line section in the Midwest Plan (PHMSA 100)

Mustang Pipe Line LLC

800 Bell Street, PL-EMB-603G
Houston, Texas 77002

Emergency Hotline (24 hours): (888) 337-5002 HOCC

Qualified Individuals

CFR §194.113(b)(2)

The following are the names and telephone numbers of the Qualified Individual (QI) and the Alternate Qualified Individuals.

Qualified Individuals				
Name/Position	**Office**	**Cellular**	**Pager**	**Home**
Catron, Shawn Qualified Individual	618-432-5953 X 23	(b) (6) [redacted]	N/A	(b) (6) [redacted]
Wollerman, Paul Alternate Qualified Individual	618-432-5361 X 18		N/A	
Ragan, Daniel Alternate Qualified Individual	815-476-7444 x 208		N/A	

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Pipeline Facilities Within Response Zone

CFR §194.113(b)(3-4)

The table below lists the pipeline facilities within the Midwest Response Zone.

Midwest Response Zone - EPA-Region Five					
Name of Pipeline	**Type of Oil**	**Starting Mile Post**	**Ending Mile Post**	**Counties**	**State**
Patoka #1 to - Corsicana 20”	Crude Oil Condensate	(b) (3), (b) (7)(F)		Randolph, Perry, Washington, Clinton, Marion	IL
Shell Lockport to N. Patoka 18" (Mustang Pipe Line)	Crude			Marion, Fayette, Shelby, Moultrie, Piatt, Champaign, Ford, Livingston, Kankakee, Will	IL
Mokena to Joliet 30"	Crude			Will	IL
Wolverine to Lockport 16" Products	Refined Products			Will	IL
Lockport to Badger (Lamont)	Refined Products			Will	IL
Midwest Response - Zone-Region Seven					
Name of Pipeline	**Type of Oil**	**Starting Mile Post**	**Ending Mile Post**	**Counties**	**State**
Patoka #1-20" Crude to Corsicana	Crude Oil Condensate	(b) (3), (b) (7)(F)		Ripley, Carter, Wayne, Madison, Bollinger, Perry	MO

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Tanks In Midwest Zone

	Location	Tank No.	Contents	Tank Type	Year	**SHELL Capacity (kbbls)	Tank Safe Fill Ht. (Ft.-In)
1	Mokena	2886	Crude Oil	External floating	1972	(b) (7)(F), (b) (3)	[redacted]
2	Mokena	2895	Crude Oil	External floating	1979		
3	Patoka	2500	Crude Oil	External floating	1939		
4	Patoka	2501	Crude Oil	External floating	1939		
5	Patoka	2504	Crude Oil	External floating	1939		
6	Patoka	2514	Crude Oil	External floating	1948		
7	Patoka	2515	Crude Oil	External floating	1948		
8	Patoka	2516	Crude Oil	External floating	1948		
9	Patoka	2517	Crude Oil	External floating	1948		
10	Patoka	2519	Crude Oil	External floating	1948		
11	Patoka	2520	Crude Oil	External floating	1947		
12	Patoka	2521	Crude Oil	External floating	1947		
13	Patoka	2522	Crude Oil	External floating	1947		
14	Patoka	2523	Crude Oil	External floating	1948		
15	Patoka	2524	Crude Oil	External floating	1948		
16	Patoka	2684	Crude Oil	External floating	1953		
17	Patoka	2685	Crude Oil	External floating	1953		
18	Patoka	2735	Crude Oil	External floating	1958		
19	Patoka	348	Crude Oil	External floating	1949		
20	Patoka	349	Crude Oil	External floating	1949		
21	Patoka	352	Crude Oil	External floating	1949		

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	Location	Tank No.	Contents	Tank Type	Year	**SHELL Capacity (kbbls)	Tank Safe Fill Ht. (Ft.-In)
22	(b) (3), (b) (7)(F)		Crude Oil	External floating	1949	(b) (7)(F), (b) (3)	
23			Crude Oil	External floating	1949		

** Nominal Capacities

Zone Classification

CFR §194.113(b)(5)

This response zone has been determined to meet the significant and substantial harm classification because at least one line section within the response zone has met at least one of the criteria listed in 194.103(c)(1).

Type of Oil and Volume of the Worst Case Discharge

CFR §194.113(b)(6)

Type of oil: Crude Oil

Volume of worst case discharge: (b) (7)(F), (b) (3)

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Section 12 Notifications

CFR §194.107(d)(1)(ii), (2)

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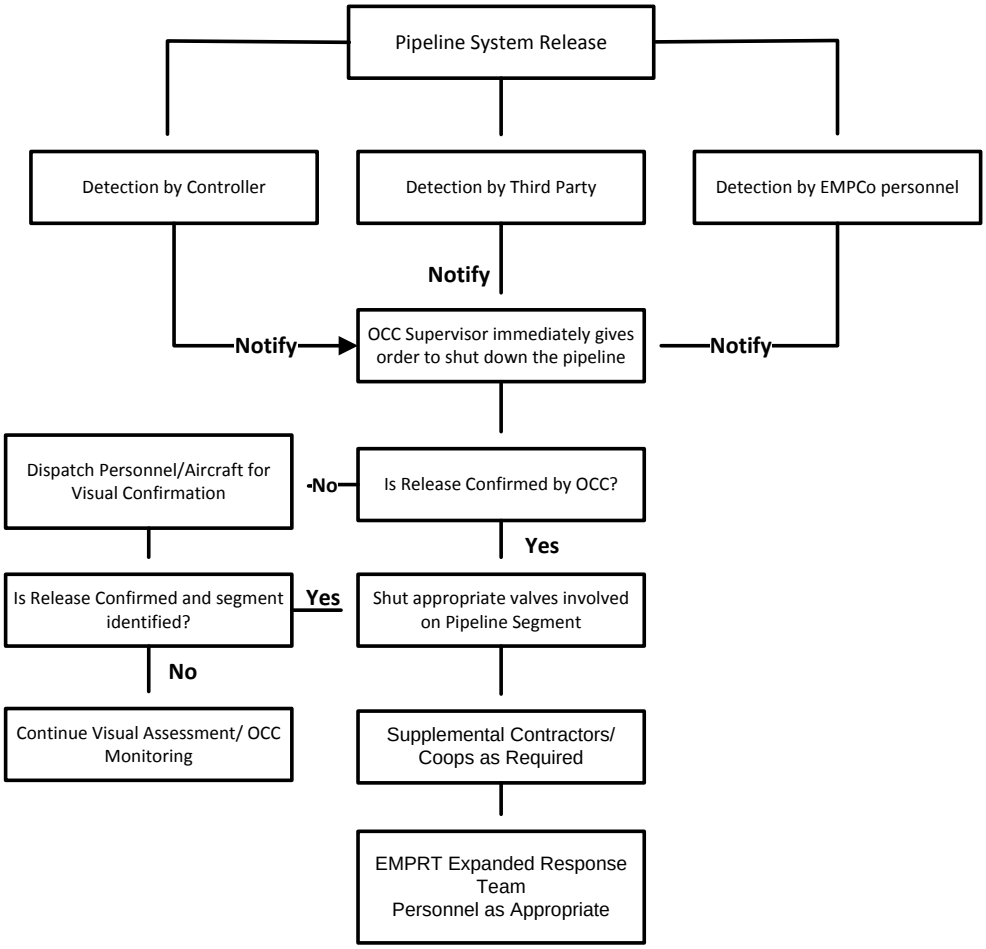
Internal Notification

General Notification Flowchart

The following is a general notification flowchart that is to be used as a guide in the event of a reportable incident.

Note: When an abnormal condition is indicated by the hi-low pressure or flow monitors, the OCC will shut the system down in accordance with the OCC Operating Procedures. In some instances, local hi-low alarms will automatically shut a system down when preset limits are exceeded.



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EMPRT Initial Response Personnel

The following table lists members of the location response team who may need to be contacted in the event of a release.

EMPRT Initial Response Personnel					
Response Position	**Name / Title**	**Office**	**Cellular**	**Pager**	**Home**
QI - Incident Commander	Catron, Shawn Area Supervisor	618-432-5953 x 23	(b) (6)		(b) (6)
Alt. QI/IC Operations Section Chief; Assessment/ Control; Containment/ Cleanup Director	Paul Wollerman	618-432-5361 x 18			
Alt. QI/IC Operations Section Chief; Assessment/ Control; Containment/ Cleanup Director	Ragan, Daniel	815-476-7444 x 208			
Alt. QI/IC Operations Section Chief; Assessment/ Control; Containment/ Cleanup Director	Nic Gordon	573-996-2516			
Logistics Section Chief; Casualty/ Repair Director	Mike Blackford	618-432-7111		888-209-4937 PIN 20061	
Safety Officer	Robert Spangenberg	618-432-5222 x20			
Administrative Supervisor and Documentation Tech	Jamie Storey	618-432-5222 Ext 22			

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OWNER FACILITY DIRECTORY

EMERGENCY TELEPHONE LISTINGS		
LOCATION	**DEPARTMENT TO NOTIFY**	**TELEPHONE NUMBERS**
Patoka Station	**618-432-7742**	
Patoka, IL	Area Supervisor Catron	618-432-5953 x23 Office (b) (6) Cellular
	Operations/Maintenance Wollerman	618-432-5361 x18 Office (b) (6) Cellular
	Mechanical Contact West	618-432-5646 Office Ext 16 (b) (6) Cellular
	Electrician Contact Blackford	618-432-7111 Office Ext 15 (b) (6) Cellular
Wilmington Station	**815-476-6644**	
Wilmington, IL	Operations/ Maintenance Ragan	815-476-7444 office Ext 208 (b) (6) cell
	Electrician Contact Alexander	815-476-7444 Office Ext 204 (b) (6) Cellular
Doniphan Station	**573-996-2516**	
Doniphan, MO	Operations/Maintenance Gordon	573-996-2516 Office (b) (6) Cellular
	Police and Fire Department	573-996-7123
	Sheriff	573-996-5555
	Hospital: Ripley County Memorial	573-996-2141
Popular Bluff, MO	Ambulance Service	573-996-3060
Yount Station	**573-866-2615**	
	Operations / Maintenance Taylor	(b) (6) cell 573-866-2615 office
Fredericktown, MO	Fire Department	573-783-3575
	Police Department	573-783-3660
	Hospital: Madison County Memorial	573-783-3341
	Ambulance Service	573-783-2234

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EMPRT Expanded Response Personnel

EMPCo Operations Control Center (OCC) in Houston, Texas				800-537-5200 24 Hour Emergency Phone Number		
AREA	NAME	OFFICE	CELL	Alternate (p)ager, (c)ell	Sat Phone #	HOME PHONE
President	Frey, Gerald	713-656-5056	(b) (6)			
Public & Government Affairs Manager	Medina, Nick	713-656-5431				
Public & Government Affairs Advisor	Smith, Andrew W	713-656-2108				
Americas Fuels Operations						
Global Fuels Operations Manager	James, Jimmie	703-846-6692	(b) (6)			
US Fuels East Area						
Area Manager	Fennell, CS	703-846-5672	(b) (6)			
US Fuels West Area						
Area Manager	Badgett, Kevin	713-793-8450	(b) (6)			
West Coast/Rockies						
Area Manager Fax 310-212-1788	S. (Saul) Flota	310-212-2935	(b) (6)			
Chemicals						
Area Manager	Somogyi, Nick	281-925-4304	(b) (6)			
Southeast Area						
Area Manager Fax 225-755-2422	Allen, Brad	225-755-2088	(b) (6)			
Central-North						
Area Manager	Henderson, Caroline	713-656-6480	(b) (6)			
Central-South						
Area Manager	Young, Matt	281-925-3856	(b) (6)			

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EMPCo Operations Control Center (OCC) in Houston, Texas				800-537-5200 24 Hour Emergency Phone Number		
AREA	NAME	OFFICE	CELL	Alternate (p)ager, (c)ell	Sat Phone #	HOME PHONE
Risk and Integrity Management						
Risk and Integrity Manager	Jones, Johnita	512-306-7981	(b) (6)			
Operations Control Center - Emergency Number 800-537-5200						
Manager	Smith, Pat	713-656-6155	(b) (6)			
Right of Way and Claims						
ROWC Manager	Hines, John	832-625-3147	(b) (6)			
Regional Manager	McMahon, Kelli	713-656-0649				
West Regional Manager	Shinde, Teri	310-212-1794				
Safety, Health and Environment Department						
SH&E Manager	Rose, James B	832-625-4920	(b) (6)			
P-L Safety	Massengale, Thad	832-624-7880				
P-L Safety	Michael K. Butler	832-624-7879				
P-L Safety	Yates, Kirwin	337-269-5221				
Medical / IH.	Sheffer, Jennifer	832-624-7874				
Safety/EP&R/ Security	Carr, Justin A	832-624-7885				
EP&R Advisor	Budde, J Thomas	713-656-3666				
Env. Planning Supervisor	Magruder, Brian	8326247869				
Air Advisor - Houston	Crawford, Wesley	832-624-7884				
Air Advisor - Houston	Rogers, F. (Frank)	832-624-7882				
Waste	Lee, Janie	832-624-7876				

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EMPCo Operations Control Center (OCC) in Houston, Texas				800-537-5200 24 Hour Emergency Phone Number		
AREA	NAME	OFFICE	CELL	Alternate (p)ager, (c)ell	Sat Phone #	HOME PHONE
Water	Martin, Tim	832-624-7883	(b) (6)			
FEA - Northeast	TBD					
FEA Midwest and Rockies	Stamatakis, Christina	832-624-4235				
FEA - Austin	Worrell, Gail	512-708-9689				
FEA - Texas Chemicals & Southeastern Areas	Smith, Marshall	281-925-4285				
FEA - West Coast	Nygaard, Renee	310-212-4190				
			Engineering Department			
Eng Manager	Hermosillo, Jesus C	713-6563-874	(b) (6)			
Eng Specialists Manager	Rup, M. A.	832-624-7802				
Field Eng Manager - Central & Northeast	Carlin, Brian	832-624-7915				
Field Eng Manager - West	Rodriguez, Gary	832-624-7833				
Projects Group Manager	Brewer, Carl	832-624-7836				
CADD Coordinator	Blatt, Brian	832-624-7671				
			Engineering Department			
Global Pipeline Integrity Manager	Brian Lawless	832-624-7840	(b) (6)			
Pipeline Integrity Manager	Young, Matt	832-624-3672				

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EMPCo Operations Control Center (OCC) in Houston, Texas				800-537-5200 24 Hour Emergency Phone Number		
AREA	NAME	OFFICE	CELL	Alternate (p)ager, (c)ell	Sat Phone #	HOME PHONE
LAW - General Counsel						
LAW - General Counsel	Cotton, Troy	832-624-7922	(b) (6)			
Admin. Asst. Fax 713-656-5593	Eguzouwa, Janet	832-624-7921				
Counsel	Knull, Anna	832-624-7926				
Counsel	Davenport, S.E.	832-624-7924				
Counsel	Randolph, Johnnie	832-624-7925				
ExxonMobil Global Security Department						
Security Advisor (Primary contact)	Moorer, Joseph	832-624-7877	(b) (6)			
Security Advisor (Alternate contact)	Davis, Jimmy	832-624-2966				
EMI	(Drug Testing Dispatcher)	800-421-3674				
Security	Greenspoint 4, 24 hour	281-654-6220				
Strike Team -NARRT Numbers						
NARRT Activation Number		**1-866-285-8895**			N/A	
NARRT Coordinator	Cliff Doumas	703-846-2513	(b) (6)			
EM Chem Emergency Response Contact	McQueen, Stephanie	832-624-3393				
BRRF (CHEMNET Team Activation)	Shift Superintendent	225-977-8133				

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EMPCo Operations Control Center (OCC) in Houston, Texas				800-537-5200 24 Hour Emergency Phone Number		
AREA	NAME	OFFICE	CELL	Alternate (p)ager, (c)ell	Sat Phone #	HOME PHONE
Baytown (CHEMNET Team Activation)	Shift Supervisor	281-834-5305	(b) (6)	(b) (6)	(b) (6)	
US Strike Team Coordinator	Tomblin, Tommy	281-834-4528				
North East Strike Team	Jim Belrose	519 339-4178		519-339-5666 (p)		
	Craig Anderson	519 587-7178		888-698-4885 (p)		
Central Strike Team - Joliet	Paul Nourie	815-521-7574				
Gulf Coast East Strike Team Baton Rouge	Cambri, Obie	225-977-1384		(b) (6)		
Gulf Coast West Strike Team Baytown	Tomblin, Tommy	281-834-4528				
Southeastern Strike Team (Houston)	Hansen, Brian	832-624-7575		800-224-7417 (p)		
USA West Strike Team (California)	Alvarez, Joe	310-212-2885		(b) (6)		
Mid-West Strike Team Montana	Drain, Kelly	406-657-5267				
24 Hour Billings Refinery Number		406-657-5320				
ER Center Fairfax (8B1613) call 703-846-3099 for activation of ERC						
Fairfax SHE	Cliff Doumas	703-846-2513	(b) (6)			
Fairfax SHE	Robert Fick	703-846-7200				

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EMPCo Operations Control Center (OCC) in Houston, Texas				800-537-5200 24 Hour Emergency Phone Number		
AREA	NAME	OFFICE	CELL	Alternate (p)ager, (c)ell	Sat Phone #	HOME PHONE
Refinery Fire Chiefs						
Baton Rouge Refinery	Cambri, Obie	225-977-1384	(b) (6)			
Baytown Refinery	R. R. Kovalcik	281-834-4006				
Beaumont Refinery	Jimbo Jennings	409-757-1081				
Billings Refinery	Drain, Kelly	406-657-5267				
Chalmette	Goodwin, Scott	504-281-1861				
Joliet Refinery	Nourie, Paul	815-521-7574				
Torrance Refinery	Schibinger, John	310-212-2969				
Chemical Emergency Numbers						
CHEMTREC	Chemical Emergency #	800-424-9300	(b) (6)			

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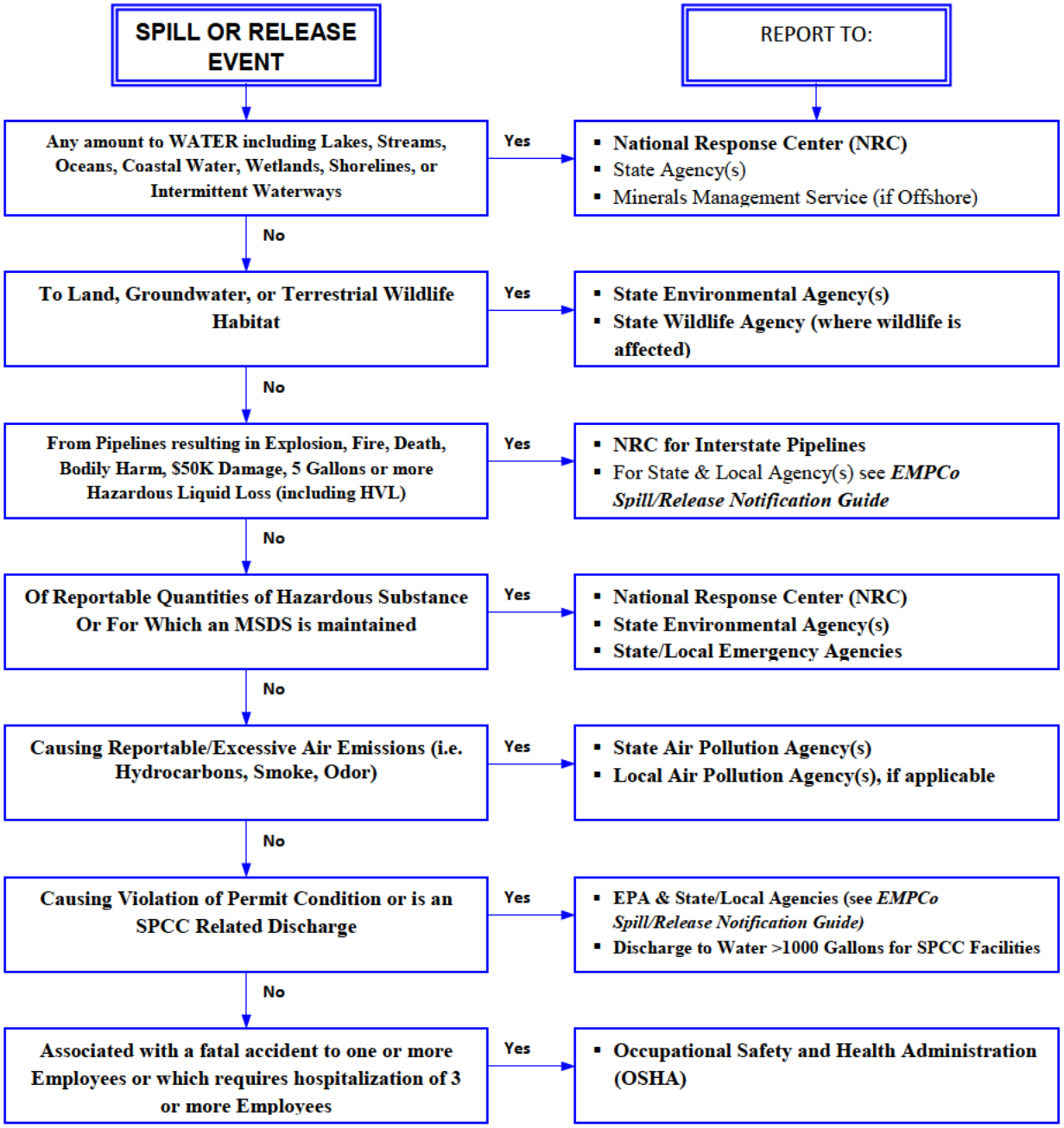
External Notification

General Notification Flowchart



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Illinois Telephone Notification Log

Date of Incident: _____

Description of Incident: _____

Verbal notification to Government Agencies (refer to EMPCo's Spill/Release Notification Guide); also, an IIR will need to be completed for reported spills.
Highlight – Completed by field

CODE	AGENCY	PHONE #	NAME OF PERSON TAKING REPORT	DATE/TIME	CASE # (if provided)	NAME OF PERSON MAKING REPORT
Local 1	Local Sheriff/Police	911 emergency)				
Local 1	Local Fire Department	911 emergency)				
Local 2	LEPC	See attached list				
FED1	NRC	800-424-8802* 202-267-2675				
FED2	OSHA	800-321-6472*				
FED3	OSHA	312-353-2220				
IL1	Illinois Emergency Management Agency	In state: 800-782-7860* Out of state: 217-782-7860 (both are 24 hour)				
IL2	Illinois Environmental Protection Agency	217-782-7860 (24 hour)				

* Toll Free Number

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Missouri Telephone Notification Log

Date of Incident: _____

Description of Incident: _____

Verbal notification to Government Agencies (refer to EMPCo's Spill/Release Notification Guide); also, an IIR will need to be completed for reported spills.
Highlight – Completed by field

CODE	AGENCY	PHONE #	NAME OF PERSON TAKING REPORT	DATE/TIME	CASE # (if provided)	NAME OF PERSON MAKING REPORT
Local 1	Local Sheriff/Police	911 (emergency)				
Local 1	Local Fire Department	911 (emergency)				
Local 2	LEPC	See attached list				
FED1	NRC	800-424-8802*				
FED2	OSHA	800-321-6472*				
FED3	OSHA	816-426-5861				
MO1	Missouri Department of Natural Resources (Primary) Emergency Response Commission	573-634-2436 800-780-1014 (24 hr.)				
MO2	Missouri Public Service Commission	800-392-4211				
MO3	Missouri Department of Natural Resources, Air and Land Protection Division	573-751-4817 (8 to 5) 800-361-4827 (24 hr)				

* Toll Free Number

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Local Agencies / Assistance

CFR §195.402(e)(7)

Illinois

Alexander County

Agency	Telephone Number
Sheriff	618-734-2141
Local Emergency Planning Committee (LEPC) Alexander County Courthouse 2000 Washington Avenue Cairo, Il 62914	24 hr: fire or police department
State Police	618-845-3740

Champaign County

Agency	Telephone Number
Sheriff	217-384-1205
Local Emergency Planning Committee (LEPC) John Dwyer, Chair 1905 E. Main Street Urbana, Il 61801 Spike Weber, Chair 1905 E. Main Street Urbana, Il 61801	217-384-3826 or 217-384-1214
State Police Dist 10	217-265-2050

Clinton County

Agency	Telephone Number
Sheriff	618-594-4555
Local Emergency Planning Committee (LEPC) Ron Voss, Chair 1490 Abbott Carlyle Il, 62231	618- 594-4555 24-hr, will answer at Sheriff's Dept

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Agency	Telephone Number
State Police Dist 11	618-346-3990

Fayette County

Agency	Telephone Number
Sheriff	618-283-2141
Local Emergency Planning Committee (LEPC) Kendra Craig 304 N. Walnut Street St. Elmo, Il 62458	618-283-4292
State Police	217-347-2711

Ford County

Agency	Telephone Number
Sheriff	217-379-2324
Local Emergency Planning Committee (LEPC) Dennis Higgins, Chair 646 South Park Paxton, IL 60957	217-379-2741
State Police Dist 21	815-698-2395

Jackson County

Agency	Telephone Number
Sheriff	618-687-3822
Local Emergency Planning Committee (LEPC) Shawn Priddy, Chair Jackson County Courthouse 1000Walnut Street Murphysboro, IL 62966	618-684-3137 pr 217-333-8911 24-hr
State Police Dist 13	618-542-2171

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Kankakee County

Agency	Telephone Number
Sheriff	815-933-3324
Local Emergency Planning Committee (LEPC) Kari Laird, Chair Metro Wastewater 1600 West Brookmont Kankakee, Il 60901	815-933-3324 815-802-7172
State Police Dist 21	815-698-2395

Livingston County

Agency	Telephone Number
Sheriff	815-844-2774
Local Emergency Planning Committee (LEPC) Stanley Weber Attn: Charles Schopp, Chair Livingston County Courthouse 211 E. Madison Street, Ste. 3 Pontiac, Il 61764	815-844-7741
State Police Dist 6	815-844-1500

Marion County

Agency	Telephone Number
Sheriff	618-548-2141
Local Emergency Planning Committee (LEPC) Don Brooks, Chair Marion County Courthouse PO Box 637 Salem, Il 62881	618-548-9162 (b) (6) cell#
State Police Dist 12	217-347-2711

PHMSA Sequence Number 100

Moultrie County

Agency	Telephone Number
Sheriff	217-728-4386
Local Emergency Planning Committee (LEPC) Jan Hatgen, Chair Moultrie County Courthouse Sullivan, IL 61951	217-532-9560
State Police Dist 10	217-867-2050

Perry County

Agency	Telephone Number
Sheriff	618-357-5172
Local Emergency Planning Committee (LEPC) David Searby, Chair Chuck Genesio R.R. #2, Box 359 DuQuoin, Il 62832	618-357-8200 618-357-6221
State Police Dist 13	618-542-2171

Piatt County

Agency	Telephone Number
Sheriff	217-762-7822
Local Emergency Planning Committee (LEPC) James Donaldson, Chair 301 Charter Street Monticello, Il 61856	217-762-9482 217-762-9482
State Police Dist 10	217-265-0050

Randolph County

Agency	Telephone Number
Sheriff	618-826-5484

PHMSA Sequence Number 100

Agency	Telephone Number
Local Emergency Planning Committee (LEPC) Nancy Schilling, Chair PO Box 309 Courthouse Chester, IL 62233	618-826-3114 618-826-5000 x227
State Police Dist 13	618-542-2171

Shelby County

Agency	Telephone Number
Sheriff	217-774-3941
Local Emergency Planning Committee (LEPC) Jerry Rowcliff ESDA Shelby County Courthouse Shelbyville, Il 62565	217-774-1499
State Police Dist 10	217-265-0050

Union County

Agency	Telephone Number
Sheriff	618-833-5500
Local Emergency Planning Committee (LEPC) Dana Pearson ESDA Union County Courthouse PO Box H Jonesboro, Il 62952	618-833-0760
State Police Dist 22	618-845-3740

Washington County

Agency	Telephone Number
Sheriff	618-327-8273

PHMSA Sequence Number 100

Agency	Telephone Number
Local Emergency Planning Committee (LEPC) Rick Greten 160 N. West Court Street Nashville, Il 62263	618-327-4800 ext. 340
State Police Dist 13	618-542-2171

Will County

Agency	Telephone Number
Sheriff	815-727-8798
Local Emergency Planning Committee (LEPC) Lori Hardy, Chair 302 N. Chicago Street Joliet, Il 60431-1059	815-740-8351
State Police Dist 5	815-726-6377

Missouri

Bollinger County

Agency	Telephone Number
Sheriff	573-238-2633
Local Emergency Planning District (LEPD) Jason Mauser	573-576-8709
Highway Patrol Troop B	573-840-9500

Carter County

Agency	Telephone Number
Sheriff	573-323-4510

PHMSA Sequence Number 100

Agency	Telephone Number
Local Emergency Planning Committee (LEPC) John Baliff Ozarks Foothill LEPC 207 South Main Popular Bluff, MO 67901-1183	314-785-6402 573-323-4999 (b) (6) cell
Highway Patrol	417-469-3121

Madison County

Agency	Telephone Number
Sheriff	573-783-2234
Local Emergency Planning District (LEPD) Jason Mauser	573-576-8709
Highway Patrol	573-840-9500

Perry County

Agency	Telephone Number
Sheriff	573-547-4576
Local Emergency Planning District (LEPD) Jason Mauser	573-573-8709
Highway Patrol Troop C	314-340-4000

Ripley County

Agency	Telephone Number
Sheriff	573-996-2719
Local Emergency Planning Committee (LEPC) Lance Pigg	573-996-6129 573-785-6049
Highway Patrol Troop E	573-840-9500

PHMSA Sequence Number 100

Wayne County

Agency	Telephone Number
Sheriff	573-224-3319
Local Emergency Planning Committee (LEPC) Lance Pigg	573-785-6049
Highway Patrol Troop S	573-751-1000

PHMSA Sequence Number 100

ExxonMobil Pipeline Company Spill / Release / Incident Report Form

Initial Report ___ Supplemental Report ___ Final Report ___ Date: _____

Date and Time Spill / Release Discovered: _____

Spill / Release Discovered by: _____

Date and Time Spill / Release Reported to SHE: _____

Spill / Release Reported to SHE by: _____

Pipeline, Station or Terminal: _____

Spill / Release / Incident Location: _____

City / Parish or County / State: _____

Nearest Town / City: _____

Driving Directions: _____

Product Spilled / Released: _____

Volume Spilled / Released: _____

Line Size / Description: _____

Volume Recovered: _____

Interstate: ☐ Intrastate: ☐ Regulated: _____

Cause of Spill / Release: _____

Fire: Yes ☐ No ☐ Explosion: Yes ☐ No ☐ Evacuations: Yes ☐ No ☐

Env. Impact: Air ☐ Water ☐ Soil ☐ Number of Injuries: ____ Number of Deaths: ____

Area Manager: _____

Area Supervisor: _____

PHMSA Sequence Number 100

Field Operations Supervisor / FLS: _____

Legal Description: _____

Land Description: _____

Landowner Notified: _____

Nearest Occupied House: _____

Nearest Main Road / Intersection: _____

Net Volume Lost: _____

Pipe Wall Thickness: _____ Specification: _____

Seam Type: _____ MOP: _____

Pressure at Time of Spill / Release: _____ SMYS: _____

Weather Conditions: _____

Area of Spill / Release: _____ Media Coverage: Yes ☐ No ☐

Spill Costs (in whole dollars):

Public / Private Property Damage	_____
Cost of Emergency Response Phase	_____
Cost of Environmental Remediation	_____
Value of Product Lost	_____
Value of Operator Property Damage	_____
Other Costs	_____
Total Cost	**_____**

Describe Other Costs: _____

Livestock / Wildlife Impacted: _____

If Water Impacted, Name: _____

PHMSA Sequence Number 100

Repair Method Used: _____

Method of Clean-up: _____

Next Remediation Steps: _____

Did Spill / Release Reach an HCA: Yes ☐ No ☐ Could It Reach Water: Yes ☐ No ☐

Is Leak / Release on a Segment Identified as a "Could Affect" Segment: Yes ☐ No ☐

Is Pipe Configured for In Line Inspection Devices: Yes ☐ No ☐

Date of Last In Line Inspection: _____ Type of Tool: _____

Cathodically Protected: Yes ☐ No ☐ Type of System: _____

Year Installed: _____ Has a CIS Been Performed: Yes ☐ No ☐ Year of Last CIS: _____

PHMSA Sequence Number 100

Agency / EMPCo Telephonic and / or Verbal Notifications			
Agency or Company	Name of Person Taking Report	Time of Notification (24 hr format)	Assigned Incident or Report Number

Written Reports / Notification Letters		
Agency or Company	Due Date	Date Mailed

Additional Comments:

* - GPS Coordinates are Required

PHMSA Sequence Number 100

Instructions / Pointers for EMPCo Spill / Release / Incident Report Form

- The first seventeen lines (highlighted in yellow if completing form on computer) are items needed for initial reporting to agencies and should be provided as soon as possible. Some of the initial items may not be readily known when first notification(s) are made to SHE, so should be provided at a later time when the information can be obtained. For any given spill / release / incident, not every information item will be applicable. Skip those items or enter "N/A".
- If completing this form on a computer, there is default text in some of the data entry fields (with the exception of the notification tables), provided as an example of the data needed. The data entry fields are gray shaded, and as data is entered into the fields, the default text will disappear.
- GPS coordinates are now required. They tie in to spill tracking by the National Pipeline Mapping System (NPMS) and American Petroleum Institute (API). The format does not matter; it can be converted in SHE if necessary. GPS coordinate formats may look like the following:

    1. 13 695512E 4705010N (UTM format)
    2. 42.4728°N -102.6216°W (DD.DDD format)
    3. 42° 28' 22" N -102° 37' 18" W (DMS format)
    4. 42° 28.37' N -102° 37.30' W (DD MM.MM format)

- For some items, it may be necessary to consult with Corrosion Technicians, Facility Engineers, Field ERST Techs / Field Regulatory Specialists or others to obtain the information.

PHMSA Sequence Number 100

Section 13 Resources

CFR §194.107(d)(1)(v),(2); 194.115

In This Section

PHMSA Sequence Number 100

OSROs

USCG Certified Oil Spill Removal Organizations (OSRO)

OSRO Information	24 Hour Contact Numbers
Heritage Environmental Services Headquarters 7901 W Morris St., Indianapolis, IN 46231 • St Louis, Mo • Joliet/ Lamont, IL	**800-487-7455** 800-377-2440 or 618-216-8600 630-739-1151
Clean Harbors Headquarters 1501 Washington Street P.O. Box 859048 Braintree, MA 02185-9048 • Chicago (Monee), IL • St Charles, MO • Memphis, TN	**800-645-8265**
SWS Environmental Headquarters 600 Grand Panama Blvd, Suite 200 Panama City Beach, FL 32407 • Paducah, KY	**877.742.4215** (270) 444-8003
MSRC Headquarters 220 Spring Street, Suite 500 Herndon, VA 20170 • Memphis TN • Roxana IL • Whiting IN	**800-645-7745**
OMI (Oil Mop Inc.) Headquarters 131 Keating Drive Belle Chasse, LA 70037	**1-800-645-6671**

PHMSA Sequence Number 100

OSRO Information	24 Hour Contact Numbers
• Longview TX	903-232-7151
U.S. Environmental Services Corp.(USES) Headquarters 365 Canal Street, Suite 2520 New Orleans, LA 70130	**800-645-6671**
• Little Rock AR	501-945-0092
• Memphis TN	662-280-3232

Coast Guard Certification of OSROs

Heritage Environmental Services - OSRO Number: 45

COTP Zone:	Operating Environment	Facility MMPD	Facility WCD1	Facility WCD2	Facility WCD3
Ohio Valley - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Ohio Valley - DISTRICT 8	Inland	Yes	~	Yes	Yes
Paducah - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Paducah - DISTRICT 8	Inland	Yes	~	Yes	Yes
Upper Mississippi - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Upper Mississippi - DISTRICT 8	Inland	Yes	~	Yes	Yes

PHMSA Sequence Number 100

Clean Harbors - OSRO Number: 13

COTP Zone:	Operating Environment	Facility MMPD	Facility WCD1	Facility WCD2	Facility WCD3
Ohio Valley - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Ohio Valley - DISTRICT 8	Inland	Yes	~	Yes	Yes
Paducah - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Paducah - DISTRICT 8	Inland	Yes	~	Yes	Yes
Upper Mississippi - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Upper Mississippi - DISTRICT 8	Inland	Yes	~	Yes	Yes

SWS Environmental

COTP Zone:	Operating Environment	Facility MMPD	Facility WCD1	Facility WCD2	Facility WCD3
Ohio Valley - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Ohio Valley - DISTRICT 8	Inland	Yes	~	Yes	Yes
Paducah - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Paducah - DISTRICT 8	Inland	Yes	~	Yes	Yes

PHMSA Sequence Number 100

COTP Zone:	Operating Environment	Facility MMPD	Facility WCD1	Facility WCD2	Facility WCD3
Upper Mississippi - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Upper Mississippi - DISTRICT 8	Inland	Yes	~	Yes	Yes

MSRC

COTP Zone:	Operating Environment	Facility MMPD	Facility WCD1	Facility WCD2	Facility WCD3
Ohio Valley - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Ohio Valley - DISTRICT 8	Inland	Yes	Yes	Yes	Yes
Paducah - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Paducah - DISTRICT 8	Inland	Yes	Yes	Yes	Yes
Upper Mississippi - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Upper Mississippi - DISTRICT 8	Inland	Yes	Yes	Yes	Yes

PHMSA Sequence Number 100

OMI (Oil Mop Inc.)

COTP Zone:	Operating Environment	Facility MMPD	Facility WCD1	Facility WCD2	Facility WCD3
Ohio Valley - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Ohio Valley - DISTRICT 8	Inland	Yes	~	Yes	Yes
Paducah - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Paducah - DISTRICT 8	Inland	Yes	~	Yes	Yes
Upper Mississippi - DISTRICT 8	River or Canal	Yes	Yes	Yes	Yes
Upper Mississippi - DISTRICT 8	Inland	Yes	~	Yes	Yes

U.S. Environmental Services Corp.(USES)

COTP Zone:	Operating Environment	Facility MMPD	Facility WCD1	Facility WCD2	Facility WCD3
Ohio Valley - DISTRICT 8	River or Canal	~	~	**Yes**	**Yes**
Ohio Valley - DISTRICT 8	Inland	~	~	**Yes**	~
Paducah - DISTRICT 8	River or Canal	**Yes**	**Yes**	**Yes**	**Yes**
Paducah - DISTRICT 8	Inland	~	~	**Yes**	~

PHMSA Sequence Number 100

COTP Zone:	Operating Environment	Facility MMPD	Facility WCD1	Facility WCD2	Facility WCD3
Upper Mississippi - DISTRICT 8	River or Canal	~	~	**Yes**	**Yes**
Upper Mississippi - DISTRICT 8	Inland	~	~	**Yes**	~

PHMSA Sequence Number 100

Evidence of Contracts

Heritage

AGREEMENT A2182615

Amendment 001

Agreement A2182615, between Procurement, a division of ExxonMobil Global Services Company and Heritage Environmental Services, LLC., effective March 20, 2009 ("Agreement"), is hereby amended as set forth below. This Amendment shall be effective as of February 22, 2014.

1. Term. The expiration date of this Agreement, is hereby extended from February 21, 2014 to October 31, 2014.

As amended hereby, the Agreement shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have duly executed this Amendment in duplicate originals.

The parties agree that a scanned signature provided by a party is intended to serve as that party's signature to the Amendment and creates a legally binding Amendment

AGREED AND ACCEPTED:

Heritage Environmental Services, LLC	Procurement, a division of ExxonMobil Global Services Company
By:	By:
Name Darelt Teeters (Typed or Printed)	Name BRIDGET HUSBANDS (Typed or Printed)
Title Vice President	Title ADMIN. ASST.
Date 2-11-14	Date 2/11/14

Date: 2014.02.07 07:20:24 -03'00'

PHMSA Sequence Number 100

Clean Harbors

STANDARD PROCUREMENT AGREEMENT FOR UPSTREAM
SERVICES WITH INCIDENTAL GOODS ("AGREEMENT")
Enabling Articles Of The Agreement ("Articles") EXXONMOBIL'S COPY

Agreement No: A2300128 **Effective Date: 11/01/2012** **Expiration Date: 10/31/2017**

"Company": Procurement, a division of ExxonMobil Global Services Company, a Delaware corporation
"Supplier": Clean Harbors Environmental Services, Inc. a Massachusetts Corporation

1. *Description of Services and Pricing.* **"Services" and pricing shall be as follows:**

Perform Spill Cleanup Work in accordance with OPA 90 requirements and Other Emergency Type Work as requested and authorized by Purchaser or more fully described in Exhibits A and D if attached or in the applicable Order.

2. *Exhibits; Addenda.* **Exhibits which are marked below are incorporated into each Order issued under this Agreement:**

☐	A - Scope of Work	X	I - Site Specific Attachments
☐	B - Order Form	☐	J - Contractor Employee Hours Reporting Procedures
☐	C -Change Order Form	X	K - Workplace Harassment
X	D - Compensation	X	M - Minority/Women Owned Business Enterprise
X	E - Invoicing Procedures	X	N - Background Checks for Contract Workers
X	F - Federal Contract Supplement	☐	O – Export Controls. Business Ethics & FCPA
X	G - Health and Safety Requirements	☐	Q – Software Licensing Terms
X	H - Drug and Alcohol Policy	X	R - Cellular Telephone Use
		☐	Other: _____

The following addenda are incorporated into each Order issued under this Agreement:_____

3. *Notices. Questions, information, and any notices under this Agreement must be directed to the following addresses. Notices regarding this Agreement by one party to the other shall be in writing and either deposited in the United States mail with first class postage prepaid, delivered in person or by private prepaid courier, or sent by facsimile with confirmation. Either Company or Supplier may change its address below by written notice to the other party.*

Company: ExxonMobil Business Support Center Argentina S.R.L.
a service provider to ExxonMobil Global Services Company
Address: 265 Della Paolera
Argentina, C1001ADA
Attn: Sebastian Peralta
Phone: 713-507-8939- ext 6328
Fax:
E-Mail: Sebastián.peralta@ExxonMobil.com

Supplier: Clean Harbors Environmental Services, Inc.
Address: 42 Longwater Drive City, State, Zip: Buenos Aires, City, State, Zip: Norwell, MA 02061
Attn: Richard Newman
Phone: 281-910-0408
Fax: 281-727-7693
E-Mail: newman.richard@cleanharbors.com

4. *Purpose and Operation. The Agreement consists of the Enabling Articles, the General Terms and Conditions, and the attached Exhibits and Addenda. The purpose of the Agreement is to provide terms and conditions to be incorporated into orders that may be issued by Affiliates (as defined in Section 1 of the General Terms and Conditions)in the United States to request Services from Supplier ("Orders"). Each Order will incorporate the terms of the General Terms and Conditions and the designated Exhibits and Addenda. The Affiliate that issues an Order ("Purchaser") is solely responsible for performance of Purchaser's obligations under such Order. Company shall not be responsible for obligations under any Order except any Order issued by Company designating itself as Purchaser. Each Order will constitute a legal contract between Purchaser and Supplier, separate and distinct from any other Order or this Agreement.*

5. *No Exclusivity or Minimums. This Agreement does not require exclusivity of business dealings by either party or commit any Purchaser to purchase any specific amount of Services. Commitments of Affiliates to purchase, if any, are set forth in Orders.*

6. *Early Termination. This Agreement may be terminated by either Company or Supplier before the Expiration Date upon at least 30 days prior written notice to the other party. Termination of the Agreement does not affect the rights and obligations of Purchasers and Supplier under any outstanding Orders.*

7. *Governing Law. The validity and interpretation of these Enabling Articles will be governed by the laws of the State of Texas, without reference to that State's principles of conflicts of law. The parties hereby agree to submit to the exclusive jurisdiction of the courts of Texas, including municipal, state and/or federal courts as appropriate, with respect to these Enabling Articles.*

8. *Usage Reports. At Company's request, Supplier shall provide usage reports to Company setting out descriptions of Services provided to Purchasers, locations where Services are performed, dollars expended, and such other reasonable usage documentation as Company requests.*

9. *Entire Agreement; Amendment; Assignment. This Agreement constitutes the entire agreement between Supplier and Company concerning the subject matter hereof. The Agreement supersedes all prior negotiations, representations, or agreements, either oral or written, related to this Agreement. Any amendment to the Agreement must be agreed in writing by Company and Supplier. Supplier shall not assign the Agreement, in whole or in part, without the prior written approval of Company.*

10. *Other Terms. Supplier agrees not to use any Affiliate's name, trademark or trade name publicly without written permission of Company. Supplier agrees to hold in confidence all technical and business information made available to Supplier by any Affiliate. This Article 10 shall survive termination of these Enabling Articles.*

The parties indicate their agreement below:

Procurement, a division of
ExxonMobil Global Services Company
By: Mark Collins
Print Name: MARK COLLINS
Authorized Title: PROCUREMENT TEAM LEAD
Date: OCTOBER 31, 2012

Supplier: Clean Harbors Environmental Services, Inc.
By: [signature]
Print Name: ERIC C. WINMER
Authorized Title: Vertical Market V.P.
Date: October 31, 2012

[redacted]

PHMSA Sequence Number 100

SWS Environmental

CONTRACTOR'S COPY

STANDARD PROCUREMENT AGREEMENT FOR DOWNSTREAM OR CHEMICAL SERVICES WITH INCIDENTAL GOODS ("AGREEMENT")
Enabling Articles ofthe Agreement ("Articles")

Agreement No: A2265744 **Effective Date: March 2, 2011** **Expiration Date: March 1, 2016**

"Company": Procurement, a division of ExxonMobil Global Services Company, a Delaware corporation
"Supplier": Progressive Environmental Services, Inc., dba Eagle-SWS a Delaware corporation
1. Description of Services and Pricing. **"Services" and pricing shall be as follows: Emergency Response Services or more fully described in Exhibits A and D if attached or in the applicable Order.**
2. Exhibits; Addenda. **Exhibits which are marked below are incorporated into each Order issued under this Agreement:**

☐	A - Scope of Work	X	H - Drug and Alcohol Policy
☐	B - Order Form	☐	I - Site Specific Attachments
☐	C -Change Order Form	☐	J - Contractor Employee Hours Reporting Procedures
X	D - Compensation	X	K - Workplace Harassment
X	E - Invoicing Procedures	☐	M - Minority/Women Owned Business Enterprise
X	F - Federal Contract Supplement	X	N - Background Checks for Contract Workers
X	G - Health and Safety Requirements	X	R - Cellular Telephone Use
		☐	Other: :

The following addenda are incorporated into each Order issued under this Agreement:_____
3. Notices. ***Questions, information, and any notices under this Agreement must be directed to the following addresses. Notices regarding this Agreement by one party to the other shall be in writing and either deposited in the United States mail with first class postage prepaid, delivered in person or by private prepaid courier, or sent by facsimile with confirmation. Either Company or Supplier may change its address below by written notice to the other party.***

Company:	**ExxonMobil Business Support CenterArgentina S.R.L. a service provider to ExxonMobil Global Services Company**	**Supplier:**	**Progressive Environmental Services Inc. dba Eagle-SWS (Eagle-SWS)**
Address:	**265 Della Paolera Blvd.**	**Address:**	**600 Grand Panama Blvd**
City, State, Zip:	**Buenos Aires, Argentina, C1001ADA**	**City, State, Zip:**	**Panama City Beach, FL32407**
Attn:	**Sebastian Peralta**	**Attn:**	**Contract Manager**
Phone:	**713-507-8939- ext 6328**	**Phone:**	**850-234-8428**
Fax:	**262-953-7373**	**Fax:**	**850-234-2451**
E-Mail:	**sebastián.peralta@exxonmobil.com**	**E-Mail:**	**jim.rossi@eaglesws.com**

4. Purpose and Operation. The Agreement consists of the Enabling Articles, the General Terms and Conditions, and the attached Exhibits and Addenda. The purpose of the Agreement is to provide terms and conditions to be incorporated into orders that may be issued by Affiliates (as defined in Section 1 of the General Terms and Conditions)in the United States to request Services from Supplier ("Orders"). Each Order will incorporate the terms of the General Terms and Conditions and the designated Exhibits and Addenda. The Affiliate that issues an Order ("Purchaser") is solely responsible for performance of Purchaser's obligations under such Order. Company shall not be responsible for obligations under any Order except any Order issued by Company designating itself as Purchaser. Each Order will constitute a legal contract between Purchaser and Supplier, separate and distinct from any other Order or this Agreement.
5. No Exclusivity or Minimums.This Agreement does not require exclusivity of business dealings by either party or commit any Purchaser to purchase any specific amount of Services. Commitments of Affiliates to purchase, if any, are set forth in Orders.
6. Early Termination. This Agreement may be terminated by either Company or Supplier before the Expiration Date upon at least 30 days prior written notice to the other party. Termination of the Agreement does not affect the rights and obligations of Purchasers and Supplier under any outstanding Orders.
7. Governing Law. The validity and interpretation of these Enabling Articles will be governed by the laws of the State of Texas, without reference to that State's principles of conflicts of law. The parties hereby agree to submit to the exclusive jurisdiction of the courts of Texas, including municipal, state and /or federal courts as appropriate, with respect to these Enabling Articles.
8. Usage Reports. At Company's request, Supplier shall provide usage reports to Company setting out descriptions of Services provided to Purchasers, locations where Services are performed, dollars expended, and such other reasonable usage documentation as Company requests.
9. Entire Agreement; Amendment; Assignment. This Agreement constitutes the entire agreement between Supplier and Company concerning the subject matter hereof. The Agreement supersedes all prior negotiations, representations, or agreements, either oral or written, related to this Agreement. Any amendment to the Agreement must be agreed in writing by Company and Supplier. Supplier shall not assign the Agreement, in whole or in part, without the prior written approval of Company.
10. Other Terms. Supplier agrees not to use any Affiliate's name, trademark or trade name publicly without written permission of Company. Supplier agrees to hold in confidence all technical and business information made available to Supplier by any Affiliate pursuant to Section 17 of the General Terms and Conditions. This Article 10 shall survive termination of these Enabling Articles.

The parties indicate their agreement below:

Procurement, a division of ExxonMobil Global Services Company	**Supplier: Progressive Environmental Services, Inc. dba Eagle-SWS**
By: Stacia Wellington	**By:** Robert Coston
Print Name: Stacia Wellington	**Print Name:** Robert Coston
Authorized Title: Procurement Team Lead	**Authorized Title:** CFO + Secretary
Date: 3/2/2011	**Date:** 3/15/2011

[redacted]

PHMSA Sequence Number 100

MSRC

MARINE SPILL RESPONSE CORPORATION‹
SERVICE AGREEMENT

EXECUTION INSTRUMENT

The **MSRC SERVICE AGREEMENT** attached hereto (together with this execution instrument, the "Agreement"), a standard form of agreement amended and restated as of September 27, 1996, is hereby entered into by and between

ExxonMobil Refining & Supply Company, a division of Exxon Mobil Corporation

a Corporation located in Fairfax, Virginia
with its principal offices located at 3225 Gallows, Fairfax, Virginia

(the "**COMPANY**"), and **MARINE SPILL RESPONSE CORPORATION**, a nonprofit corporation organized under the laws of Tennessee ("**MSRC**"), and shall be identified as

SERVICE AGREEMENT No. 6MPA132

IN WITNESS WHEREOF, the parties hereto each have caused this Agreement to be duly executed and effective as of January 21, 2002.

ExxonMobil Refining & Supply Company

By: _____

J.S. Simon

Title: President

Address: 3225 Gallows Road

Fairfax, Virginia 22037

Contact: John V. Zimmer, Emergency Response Advisor
Telephone: 703-846-2549 Fax: 703-846-2553

MARINE SPILL RESPONSE CORPORATION:

By: _____
Judith A. Roos
Marketing & Customer Service Manager
455 Spring Park Place, Suite 200
Herndon, Virginia 20170

(703) 326-5617; Fax: (703) 326-5660

ER-MSRC-Agreement-Execution-Document-01-2002.doc; 01/11/02; 10:13 AM

PHMSA Sequence Number 100

OMI (Oil Mop Inc.)

STANDARD PROCUREMENT AGREEMENT FOR DOWNSTREAM OR CHEMICAL SERVICES WITH INCIDENTAL GOODS ("AGREEMENT")

Enabling Articles Of The Agreement ("Articles")

Agreement No: A2279853 **Effective Date: 1/15/2011** **Expiration Date: 1/14/2016**
"Company": Procurement, a division of ExxonMobil Global Services Company, a Delaware corporation
"Supplier": Oil Mop, LLC, a Louisiana Corporation

1. *Description of Services and Pricing.* **"Services" and pricing shall be as follows:**
The supplier will provide emergency response spill services including labor, equipment such as marine, response equipment and other related emergency response type work or more fully described in Exhibits A and D if attached or in the applicable Order.

2. *Exhibits; Addenda.* **Exhibits which are marked below are incorporated into each Order issued under this Agreement:**
The following addenda are incorporated into each Order issued under this Agreement:_____

☐	A - Scope of Work; Goods	☐	I - Site Specific Attachments
☐	B - Order Form	☐	J - Contractor Employee Hours Reporting Procedures
☐	C -Change Order Form	X	K - Workplace Harassment
X	D - Compensation	☐	M - Minority/Women Owned Business Enterprise
X	E - Invoicing Procedures	☐	N - Background Checks for Contract Workers
X	F - Federal Contract Supplement	☐	O - Export Controls, Business Ethics & FCPA
X	G - Health and Safety Requirements	☐	Q – Software Licensing Terms
X	H - Drug and Alcohol Policy	X	R - Cellular Telephone Service
		☐	Other: _____

3. *Notices.* ***Questions, information, and any notices under this Agreement must be directed to the following addresses. Notices regarding this Agreement by one party to the other shall be in writing and either deposited in the United States mail with first class postage prepaid, delivered in person or by private prepaid courier, or sent by facsimile with confirmation. Either Company or Supplier may change its address below by written notice to the other party.***

Company: ExxonMobil Business Support Center Argentina S.R.L.
Address: 265 Della Paolera
City, State, Zip: Buenos Aires, Argentina, C1001ADA
Attn: Sebastian Peralta
Phone: 713-507-8939- ext 6328
Fax: 262-953-7373
E-Mail: sebastián.peralta@exxonmobil.com

Supplier: Oil Mop, LLC
Address: 131 Keating Dr.
City, State, Zip: Belle Chase 70037
Attn: Joseph Christiana
Phone: (504) 394-6110
Fax: (504) 391-7398
E-Mail: jchristiana@oilmop.com

4. *Purpose and Operation. The Agreement consists of the Enabling Articles, the General Terms and Conditions, and the attached Exhibits and Addenda. The purpose of the Agreement is to provide terms and conditions to be incorporated into orders that may be issued by Affiliates (as defined in Section 1 of the General Terms and Conditions)in the United States to request Services from Supplier ("Orders"). Each Order will incorporate the terms of the General Terms and Conditions and the designated Exhibits and Addenda. The Affiliate that issues an Order ("Purchaser") is solely responsible for performance of Purchaser's obligations under such Order. Company shall not be responsible for obligations under any Order except any Order issued by Company designating itself as Purchaser. Each Order will constitute a legal contract between Purchaser and Supplier, separate and distinct from any other Order or this Agreement.*

5. *No Exclusivity or Minimums. This Agreement does not require exclusivity of business dealings by either party or commit any Purchaser to purchase any specific amount of Services. Commitments of Affiliates to purchase, if any, are set forth in Orders.*

6. *Early Termination. This Agreement may be terminated by either Company or Supplier before the Expiration Date upon at least 30 days prior written notice to the other party. Termination of the Agreement does not affect the rights and obligations of Purchasers and Supplier under any outstanding Orders.*

7. *Governing Law. The validity and interpretation of these Enabling Articles will be governed by the laws of the State of Texas, without reference to that State's principles of conflicts of law. The parties hereby agree to submit to the exclusive jurisdiction of the courts of Texas, including municipal, state and /or federal courts as appropriate, with respect to these Enabling Articles.*

8. *Usage Reports. At Company's request, Supplier shall provide usage reports to Company setting out descriptions of Services provided to Purchasers, locations where Services are performed, dollars expended, and such other reasonable usage documentation as Company requests.*

9. *Entire Agreement; Amendment; Assignment. This Agreement constitutes the entire agreement between Supplier and Company concerning the subject matter hereof. The Agreement supersedes all prior negotiations, representations, or agreements, either oral or written, related to this Agreement. Any amendment to the Agreement must be agreed in writing by Company and Supplier. Supplier shall not assign the Agreement, in whole or in part, without the prior written approval of Company.*

10. *Other Terms. Supplier agrees not to use any Affiliate's name, trademark or trade name publicly without written permission of Company. Supplier agrees to hold in confidence all technical and business information made available to Supplier by any Affiliate. This Article 10 shall survive termination of these Enabling Articles.*

The parties indicate their agreement below:

Procurement, a division of ExxonMobil Global Services Company
By: _____
Print Name: _____
Authorized Title: _____
Date: _____

Supplier: Oil Mop, LLC
By: _____
Print Name: _____
Authorized Title: _____
Date: _____

PHMSA Sequence Number 100

U.S. Environmental Services

STANDARD PROCUREMENT AGREEMENT FOR DOWNSTREAM OR CHEMICAL SERVICES WITH INCIDENTAL GOODS ("AGREEMENT")

Enabling Articles Of The Agreement ("Articles")

Agreement No: A2247791 **Effective Date: 04/29/2010** **Expiration Date:*** _____

*(*If expiration date is blank, agreement continues until terminated by either party upon not less than 30-days prior written notice.)*

"Company": Procurement, a division of ExxonMobil Global Services Company, a Delaware corporation
"Supplier": United States Environmental Services, LLC, a Louisiana Limited Liability Company

1. *Description of Services and Pricing.* **"Services" and pricing shall be as follows:**

To provide emergency response services in support of Emergency Spill Response Cleanup work in accordance with OPA 90 requirements and Other Emergency "type work" as requested and authorized by ExxonMobil or more fully described in Exhibits A and D if attached or in the applicable Order.

2. *Exhibits; Addenda.* **Exhibits which are marked below are incorporated into each Order issued under this Agreement:**

☐	A - Scope of Work	X	H - Drug and Alcohol Policy
☐	B - Order Form	X	I - Site Specific Attachments
☐	C -Change Order Form	☐	J - Contractor Employee Hours Reporting Procedures
X	D - Compensation	X	K - Workplace Harassment
X	E - Invoicing Procedures	☐	M - Minority/Women Owned Business Enterprise
X	F - Federal Contract Supplement	☐	N - Background Checks for Contract Workers
X	G - Health and Safety Requirements	X	R - Cellular Telephone Use
		☐	Other: _____

The following addenda are incorporated into each Order issued under this Agreement: Upstream Services Addendum to General Terms and Conditions

3. *Notices.* ***Questions, information, and any notices under this Agreement must be directed to the following addresses. Notices regarding this Agreement by one party to the other shall be in writing and either deposited in the United States mail with first class postage prepaid, delivered in person or by private prepaid courier, or sent by facsimile with confirmation. Either Company or Supplier may change its address below by written notice to the other party.***

Company: ExxonMobil Business Support Center Argentina S.R.L.
a service provider to ExxonMobil Global Services Company
Address: 265 Della Paolera
City, State, Zip: Buenos Aires, Argentina, C1001ADA
Attn: Sebastián Peralta
Phone: (713) 507-8939 ext. 6328
Fax: 262-314-0308
E-Mail: sebastian.peralta@exxonmobil.com

Supplier: United States Environmental Services, LLC
Address: 365 Canal Street, Suite 2500
City, State, Zip: New Orleans, Louisiana 70130
Attn: Kate E. Mills
Phone: 504.279.9930
Fax: 504.910.9611
E-Mail: kmills@usesgroup.com

4. *Purpose and Operation. The Agreement consists of the Enabling Articles, the General Terms and Conditions, and the attached Exhibits and Addenda. The purpose of the Agreement is to provide terms and conditions to be incorporated into orders that may be issued by Affiliates (as defined in Section 1 of the General Terms and Conditions)in the United States to request Services from Supplier ("Orders"). Each Order will incorporate the terms of the General Terms and Conditions and the designated Exhibits and Addenda. The Affiliate that issues an Order ("Purchaser") is solely responsible for performance of Purchaser's obligations under such Order. Company shall not be responsible for obligations under any Order except any Order issued by Company designating itself as Purchaser. Each Order will constitute a legal contract between Purchaser and Supplier, separate and distinct from any other Order or this Agreement.*

5. *No Exclusivity or Minimums. This Agreement does not require exclusivity of business dealings by either party or commit any Purchaser to purchase any specific amount of Services. Commitments of Affiliates to purchase, if any, are set forth in Orders.*

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8. *Usage Reports. At Company's request, Supplier shall provide usage reports to Company setting out descriptions of Services provided to Purchasers, locations where Services are performed, dollars expended, and such other reasonable usage documentation as Company requests.*

9. *Entire Agreement; Amendment; Assignment. This Agreement constitutes the entire agreement between Supplier and Company concerning the subject matter hereof. The Agreement supersedes all prior negotiations, representations, or agreements, either oral or written, related to this Agreement. Any amendment to the Agreement must be agreed in writing by Company and Supplier. Supplier shall not assign the Agreement, in whole or in part, without the prior written approval of Company.*

10. *Other Terms. Supplier agrees not to use any Affiliate's name, trademark or trade name publicly without written permission of Company. Supplier agrees to hold in confidence all technical and business information made available to Supplier by any Affiliate. This Article 10 shall survive termination of these Enabling Articles.*

The parties indicate their agreement below:

Procurement, a division of
ExxonMobil Global Services Company
By: _____
Print Name: _____
Authorized Title: _____
Date: _____

Supplier: United States Environmental Services, LLC
By: _____
Print Name: _____
Authorized Title: _____
Date: _____

PHMSA Sequence Number 100

Contractors & Suppliers

Remediation Consultant

City	Company/Address	Telephone
Indianapolis	**Heritage Environmental Services** **7901 W Morris St.,** Indianapolis, IN 46231	800-487-7455

Contractors (Manpower & Equipment)

Arkansas

City	Company/Address	Telephone
Hot Springs	**Jerry Baldwin Construction**	501-767-3889
Hot Springs	**S&S Plumbing**	501-767-6100

Illinois

City	Company/Address	Telephone
Sandoval	**Carter Excavating**	618-247-3301
Patoka	**Ramsey Welding**	618-483-6248 217-690-7002
Wheaton	**Midwestern Contractors, Inc.**	630-668-3420 X0

Indiana

City	Company/Address	Telephone
Hammond	**Tri Fab, Inc.**	219-845-1300

Texas

City	Company/Address	Telephone
Fort Worth	**Eagle Construction/Environmental**	817-332-5481

PHMSA Sequence Number 100

Plane & Helicopter Services

Missouri

City	Company/Address	Telephone
Doniphan	**Reid's Helicopter**	573-996-9494
Cape Girardeau	**Cape Aviation**	573-335-6632
St. Marys	**Perryville Airport**	573-543-5100

Vacuum & Transport Trucks

Illinois

City	Company/Address	Telephone
St. Elmo	**Feller Oilfield Service**	618-829-3260
Centralia	**Smith Truck Service**	618-533-1047

Indiana

City	Company/Address	Telephone
Hammond	**Ace Allwaste**	219-931-8900 708-891-0846 Illinois 800-276-3022
Hammond	**Phillips Services**	219-931-8900

Kentucky

City	Company/Address	Telephone
Calvery City	**L.W.D. Field Services**	502-395-8313

PHMSA Sequence Number 100

Section 14 Response Planning & Strategies

PHMSA Sequence Number 100

Worst Case Discharge

CFR §194.105

Volume

(b) (7)(F), (b) [redacted]

Location of Worst Case Discharge

Pipeline System

(b) (7)(F), (b) (3) [redacted]

Type of Oil

Crude Oil

Weather Conditions

The worst case discharge calculation considers the following adverse conditions:

- Weather forecast indicate more inclement weather on the way
- Winds in excess of 50 mph
- Possible rains of 4 to 6 inches

Selection Criteria

This scenario is the largest foreseeable unauthorized discharge under adverse conditions due to the largest volume tank compared to the largest volume pipeline segment.

The worst case discharge is based upon the volume of (b) (7)(F), (b) (3) [redacted] reduced by volume credits allowed by 49 CFR 194.

PHMSA Sequence Number 100

Worst Case Discharge Determination

Pipeline Calculation

Method

For purposes of estimating the time to detect a release it is assumed the mode of failure is a catastrophic failure or impingement of the Pipeline because these are the only conditions where maximum flow rate would apply.

Maximum shutdown response time was estimated by applying a safety factor of 2.0 to the calculated time to close in remotely operated valves controlled by the control center.

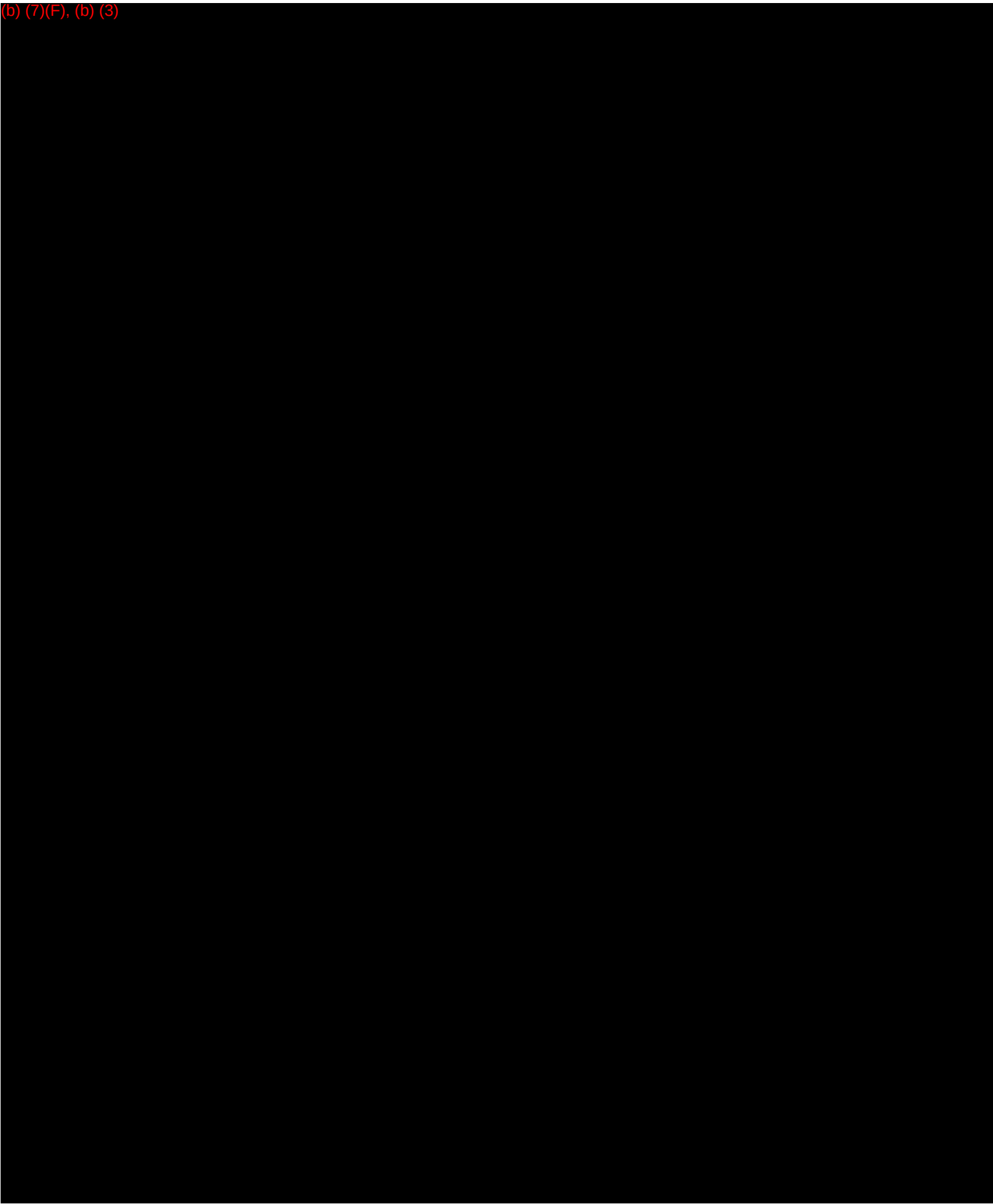
Pipeline Systems

The response zone contains three pipeline systems. The worst case discharge criteria in 49 CFR 194.105 were applied to each. This analysis is provided below.

(b) (7)(F), (b) (3)

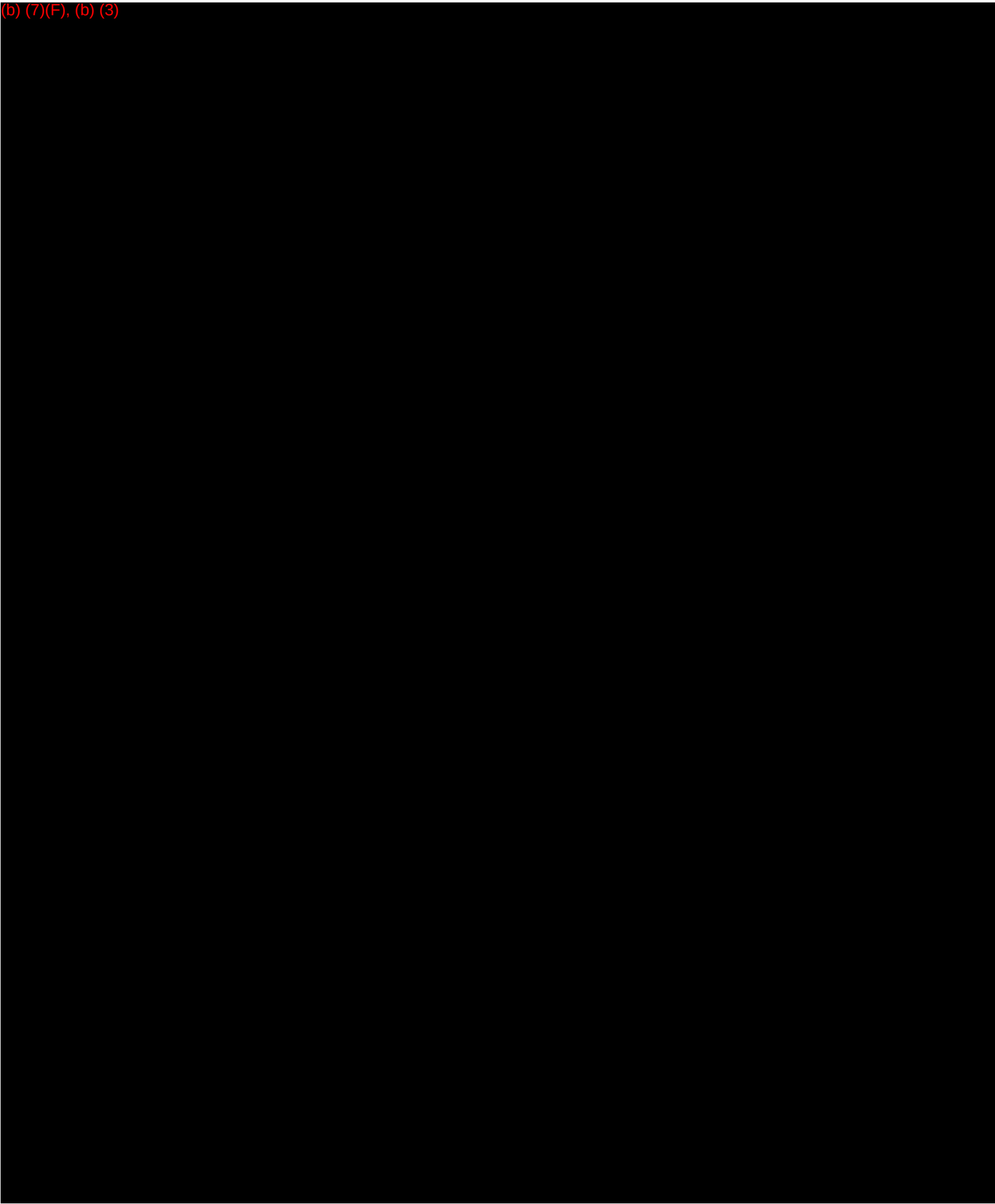
PHMSA Sequence Number 100

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

Tank Calculation

Control Features/Factors	Credit Applicability (Y/N)	Reduction Value	Reduction Amount In Barrels	Adjusted Tank Volume (bbl.)
Initial Volume of Tank (bbls)				(b) (7)(F), (b) (3)
Secondary containment > 100% of maximum capacity of largest tank within secondary containment, and secondary containment meets NFPA Code 30.	Y	(b) (7)(F), (b) (3)		
Tank built/repaired to API STD 620/650/653	Y			
Overfill protection standards , API RP 2350	Y			
Testing/cathodic protection meets API STD 650/651/653	Y			
Tertiary containment/drainage/treatment system meets NFPA Code 30.	N			
Total Credit Allowed by DOT/PHMSA Policy - Maximum 75%				

PHMSA Sequence Number 100

Release History

The largest historical discharge for the zone was 31 bbl of Crude Oil in July 2006.

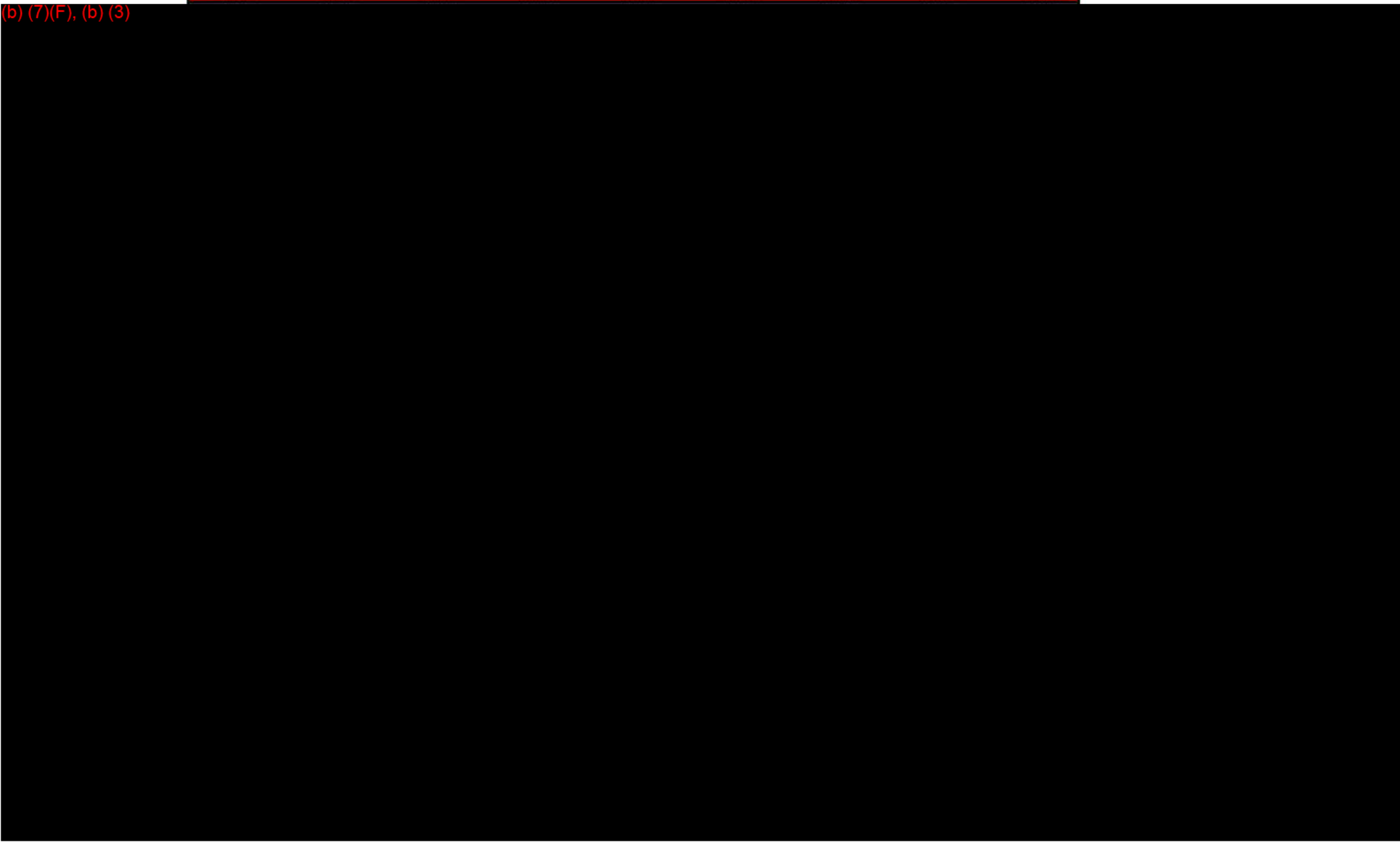
Date	Quantity Spilled (BBL)	Spill to Soil Water Both	Spill from Tank or Pipeline	Incident Summary
2000-02	18	Soil	Pipeline	Crude oil spill from loose coupling in tank farm
2006-07	31	Soil	Tank	Crude oil spill from tank mixer
2008-10	30	Soil	Tank	Crude oil spill from tank mixer
2008-08	3	Soil	Pipeline	Crude oil spill from tank farm piping caused by microbial induced corrosion
2008-09	15	Soil	Pipeline	Crude oil spill from tank farm piping caused by microbial induced corrosion
2009-07	2.4	Soil	Pipeline	Crude oil spill from station pump caused by a cracked bearing
2012-01	1.48	Other	Pipeline	Crude oil spill from a sample valve left open
2013-04	1.3	Soil	Pipeline	Crude oil spill from pipeline damage by third party
2012-10	1.5	Soil	Pipeline	Crude oil spill from pump seal

Mitigations

PHMSA Sequence Number 100

Aerial Overview Map

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

Topographic Overview Map

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

Worst Case Discharge Trajectory Map

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

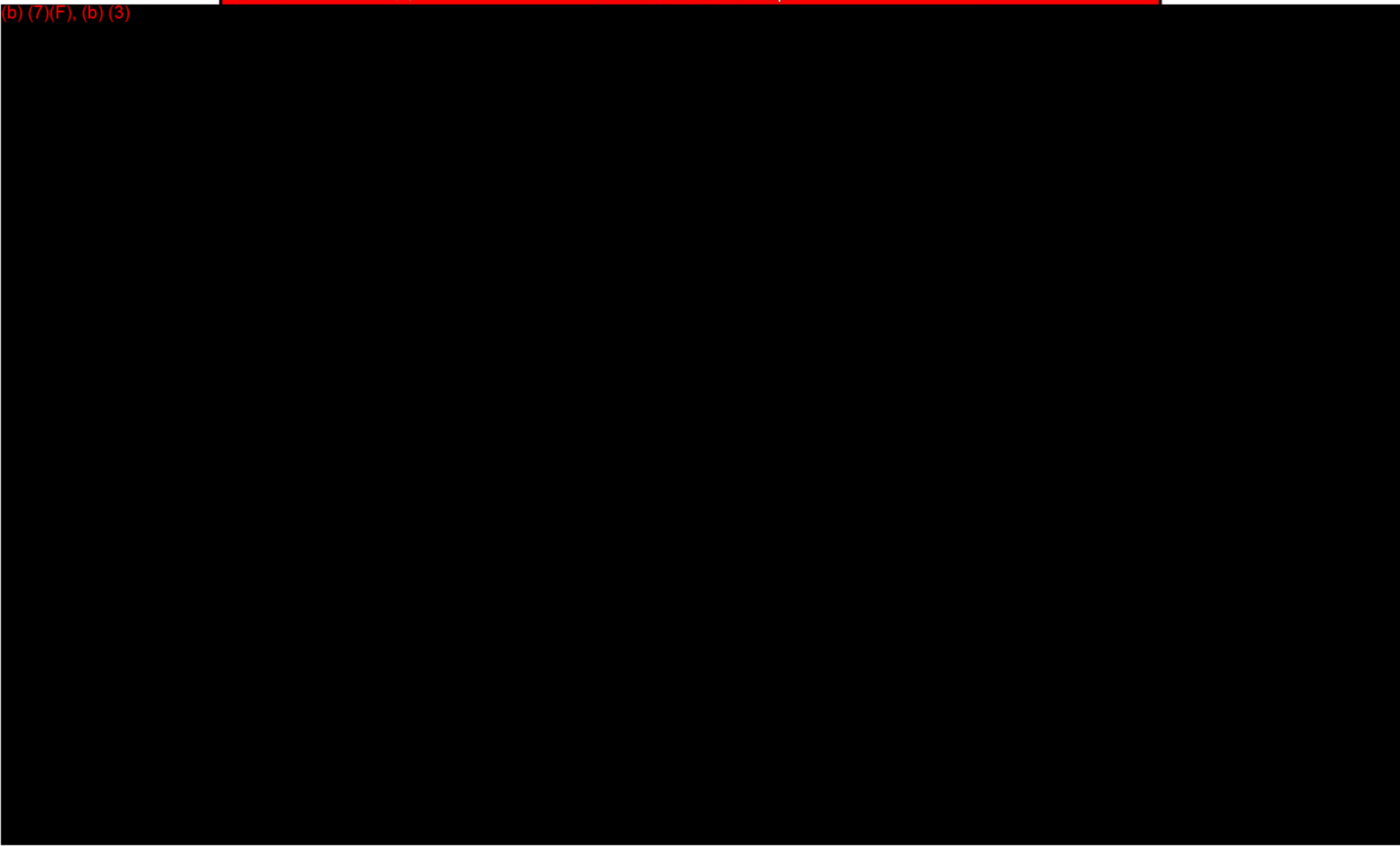
Response Divisions Overview Map

ExxonMobil

Mokena Station Worst Case Discharge Response Plan
Division Overview Map

The Response Group

(b) (7)(F), (b) (3)

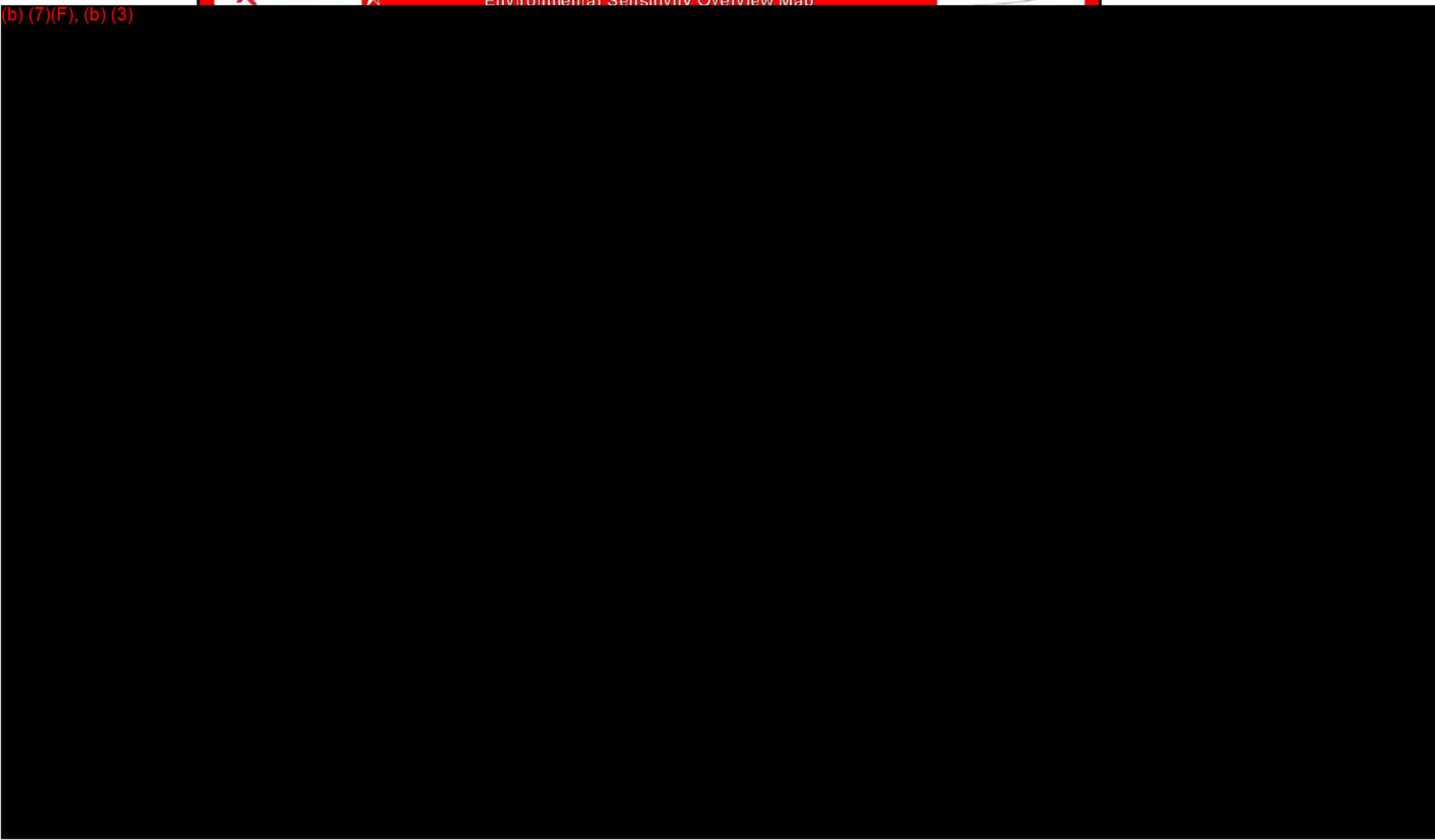


PHMSA Sequence Number 100

Environmentally Sensitive Areas

Environmental Sensitivity Overview Map

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

Division A - Environmental Sensitivity Map

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

Division B - Environmental Sensitivity Map

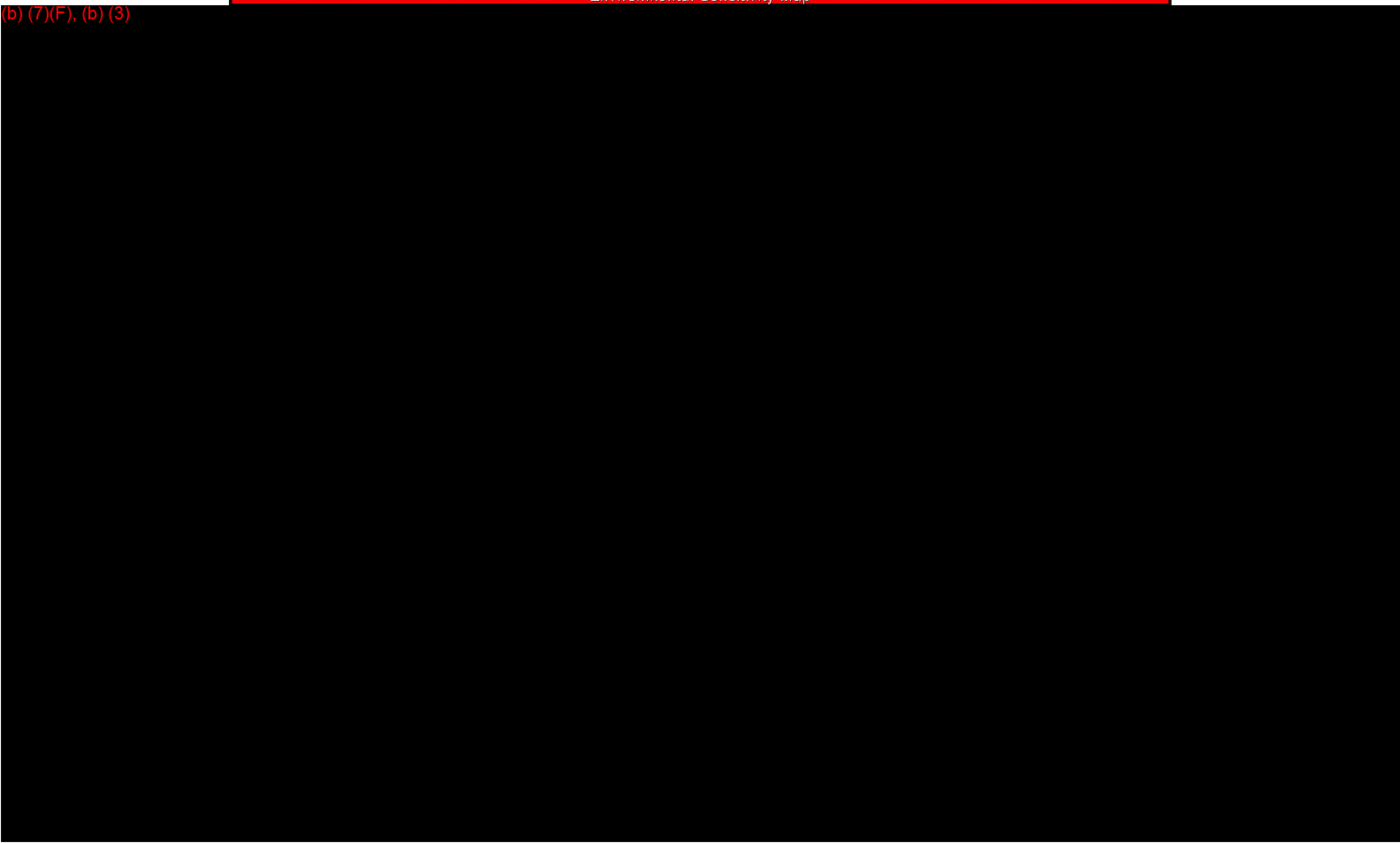
(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

Division C - Environmental Sensitivity Map

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

Division D - Environmental Sensitivity Map

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

Division E - Environmental Sensitivity Map

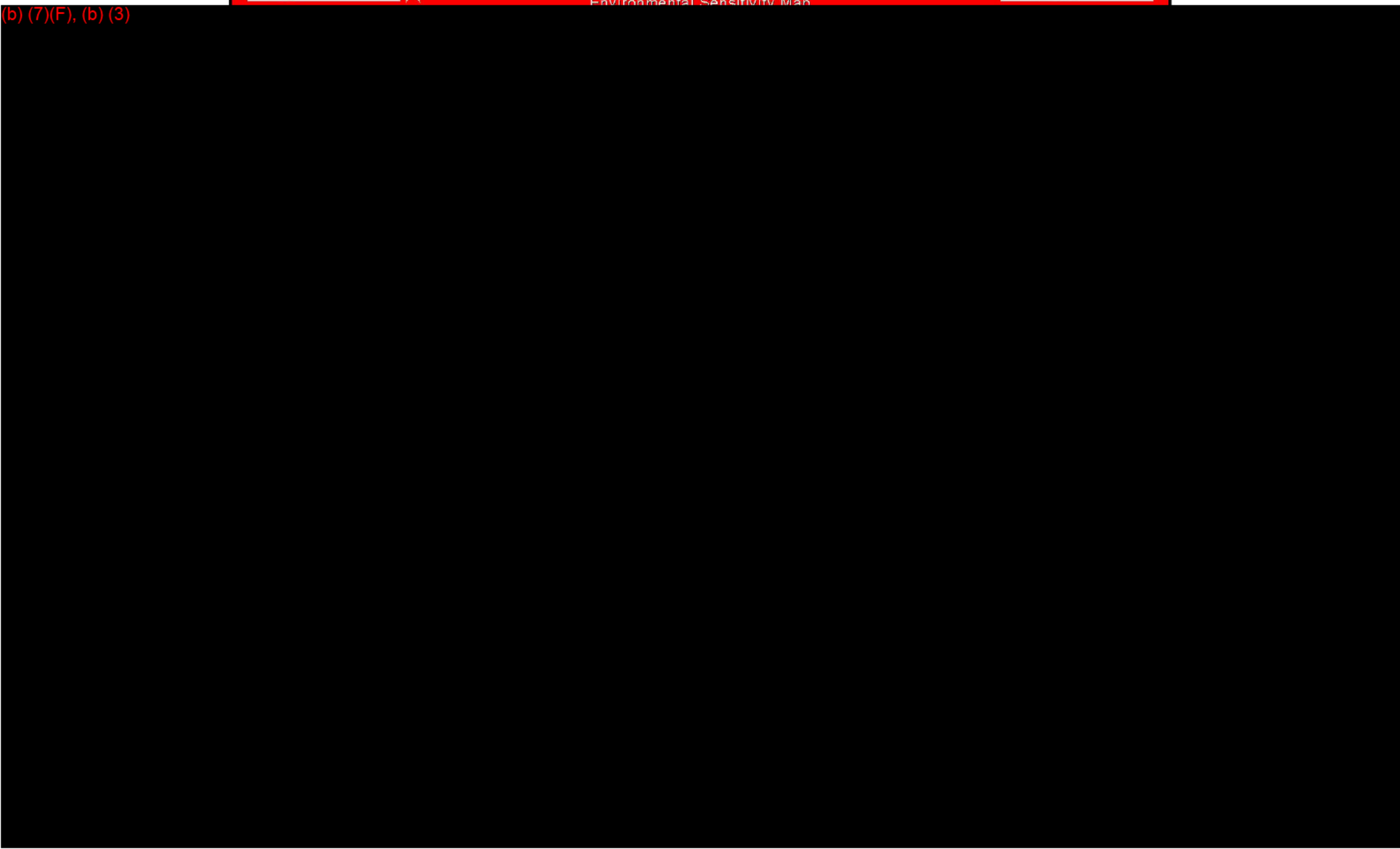
(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

Division F - Environmental Sensitivity Map

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

Response Strategies for Worst Case Discharge

Introduction

This section covers the downstream drainage areas of Mokena Station. The purpose of this section is to provide ExxonMobil with a comprehensive, preplanned spill response guide that provides the necessary information to respond quickly and effectively to a spill incident, which may occur within each geographic area (division). Proper implementation of the preplanned response guide will limit the impact of environmental and ecological damage as well as maximize the health, safety and well being of the general public in the spill area.

This section identifies predesignated response sites and strategies to cover any potentially affected downstream waterway from Mokena Station. This includes a breakout of designated divisions by drainage and aerial overviews. Within the division, designated response sites were identified which includes the response strategy maps and resource lists.

PHMSA Sequence Number 100

Division A Mokena Station – Overview Map

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

Division B Marley Creek – Overview Map

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

Division B – Strategy Maps & ICS204s

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division B – Marley Creek:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Install underflow dam north of 187th St culvert. Deploy 50' of containment boom across the waterway in front of the culvert. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	UNDERFLOW DAM	Materials for 20' Dam	1-2 sets		
	BOOM	CONTAINMENT BOOM	50'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	4-6		
	MANPOWER	OPERATORS	1		

PHMSA Sequence Number 100

PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

ExxonMobil

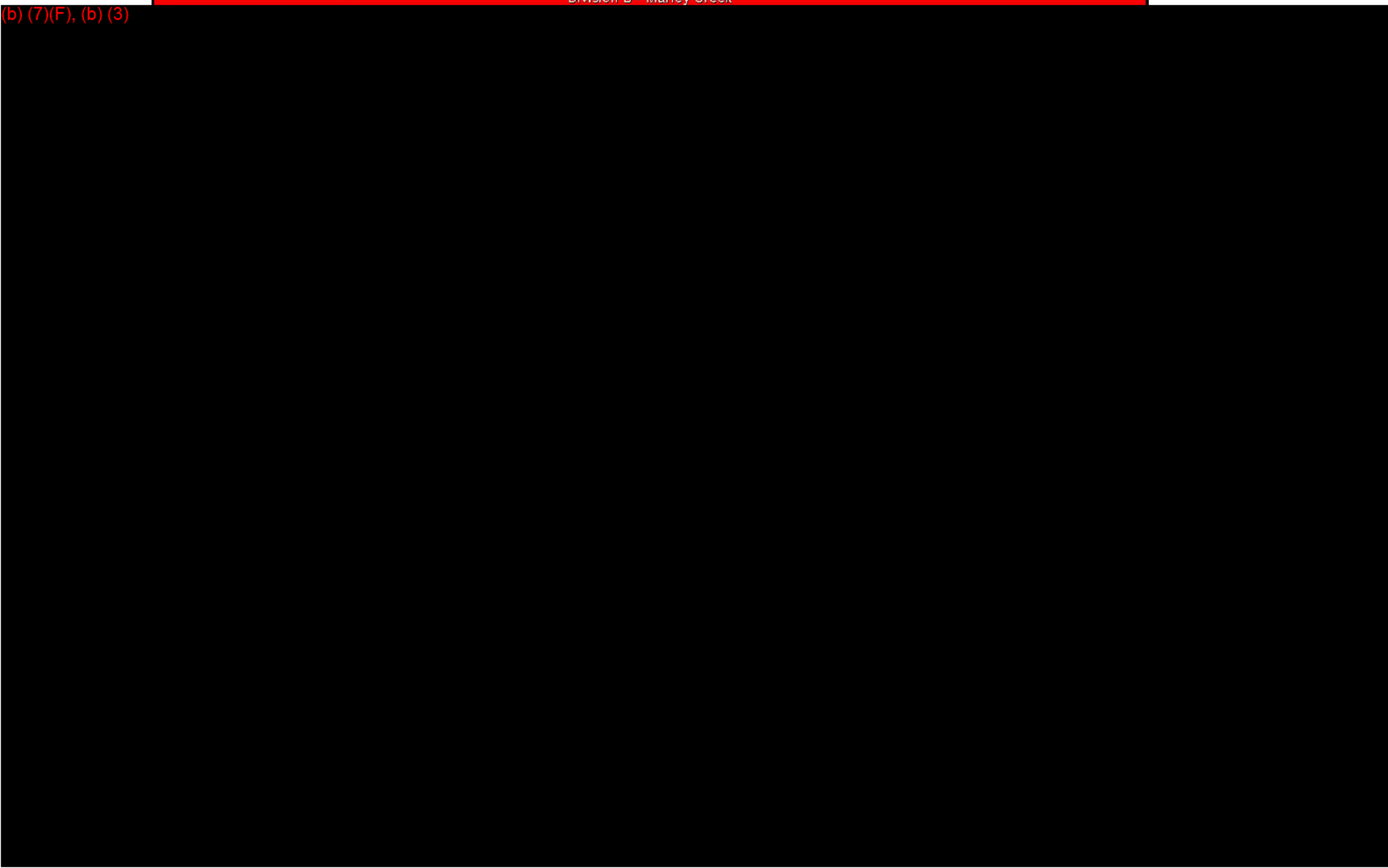
Mokena Station Worst Case Discharge Response Plan

MRLY-2 Strategy Map

Division B - Marley Creek

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division B – Marley Creek:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 50' of containment boom across the waterway below bridge. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	50'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	4-6		
	MANPOWER	OPERATORS	1		

PHMSA Sequence Number 100

PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

ExxonMobil

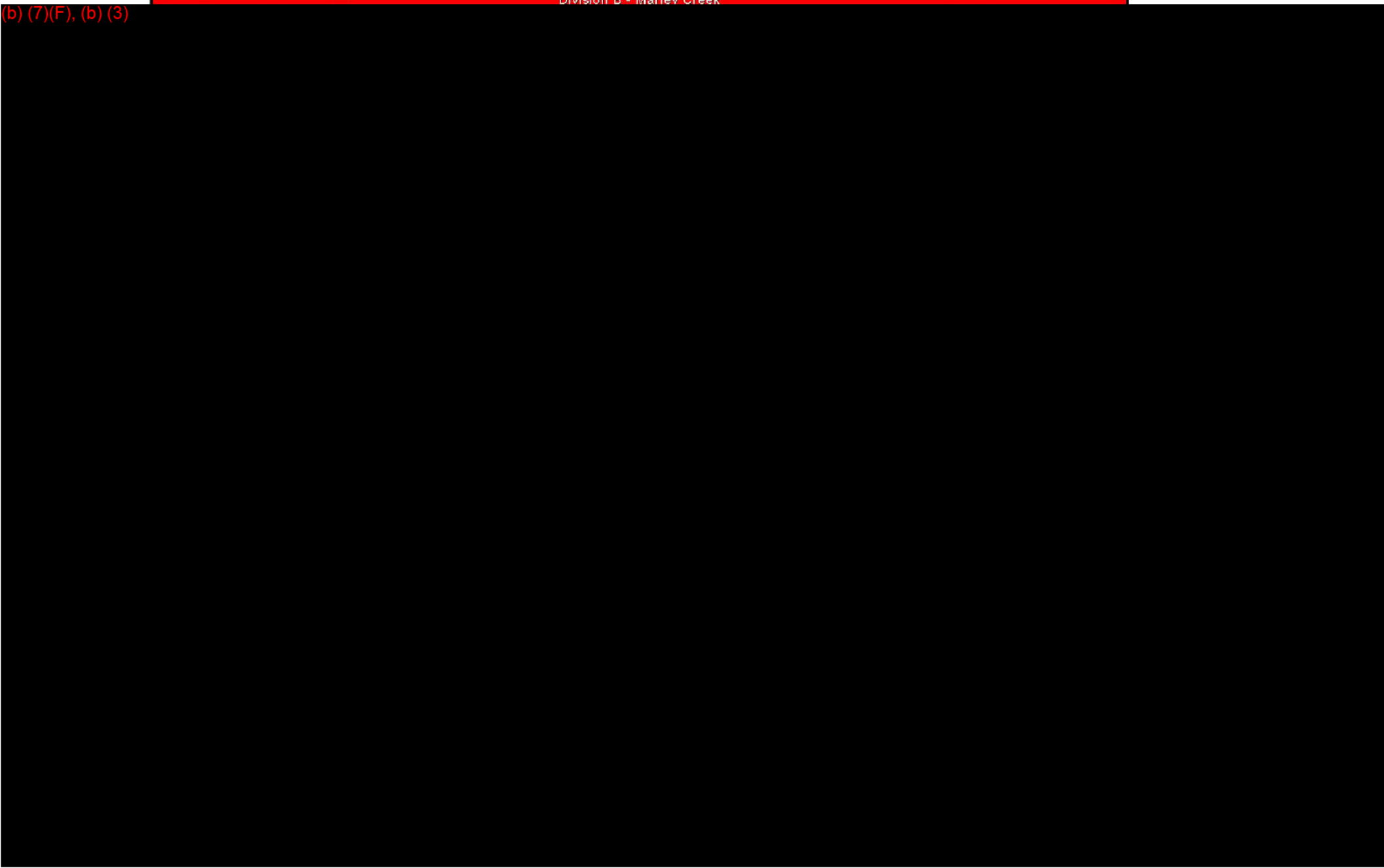
Mokena Station Worst Case Discharge Response Plan

MRLY-3 Strategy Map

Division B - Marley Creek

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division B – Marley Creek:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 50' of containment boom across the waterway below bridge. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	50'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		

PHMSA Sequence Number 100

	MANPOWER	RESPONDERS	4-6		
	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

ExxonMobil

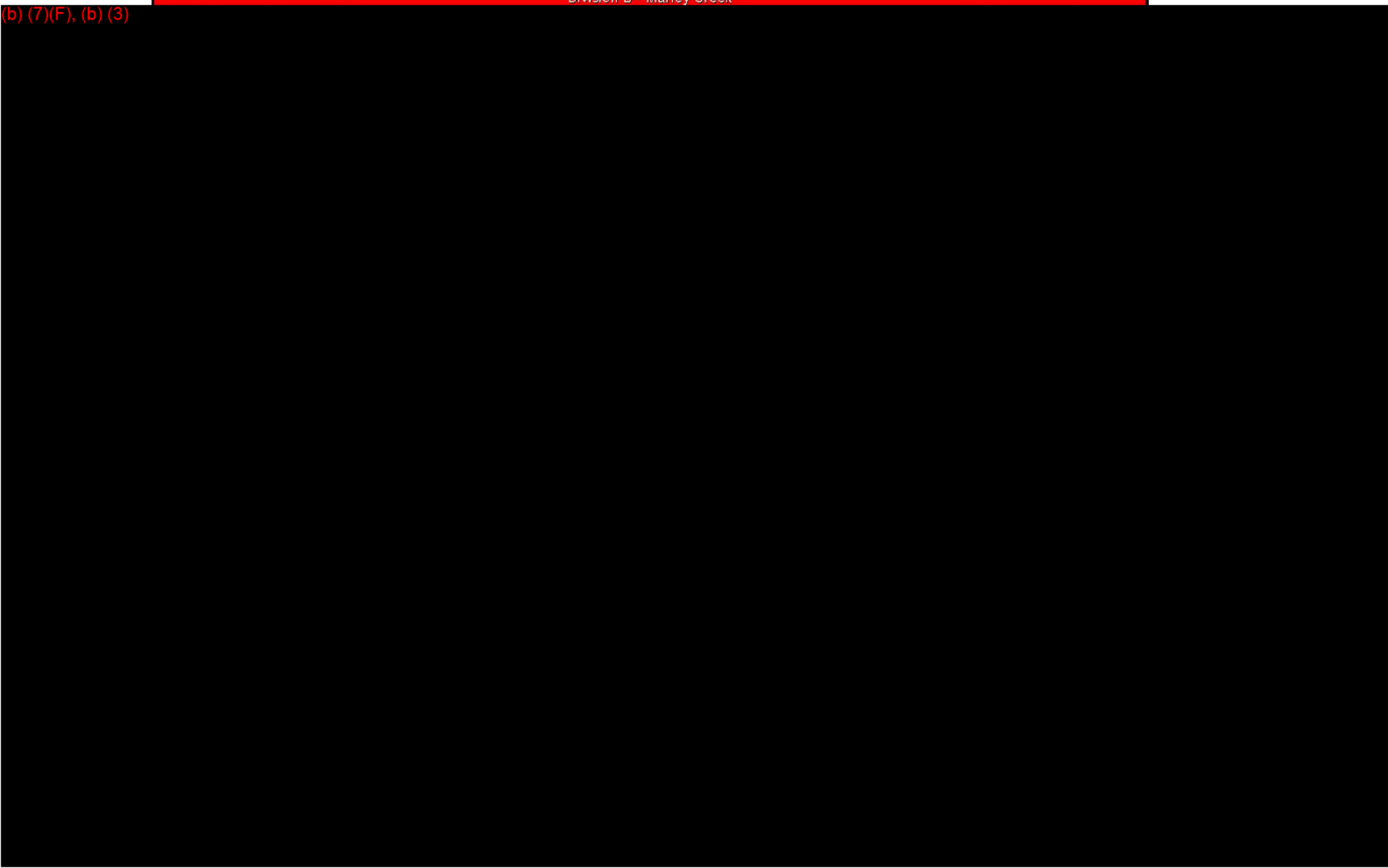
Mokena Station Worst Case Discharge Response Plan

MRLY-4 Strategy Map

Division B - Marley Creek

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division B – Marley Creek:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 50' of containment boom across the waterway below bridge. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	50'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	4-6		

PHMSA Sequence Number 100

	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

ExxonMobil

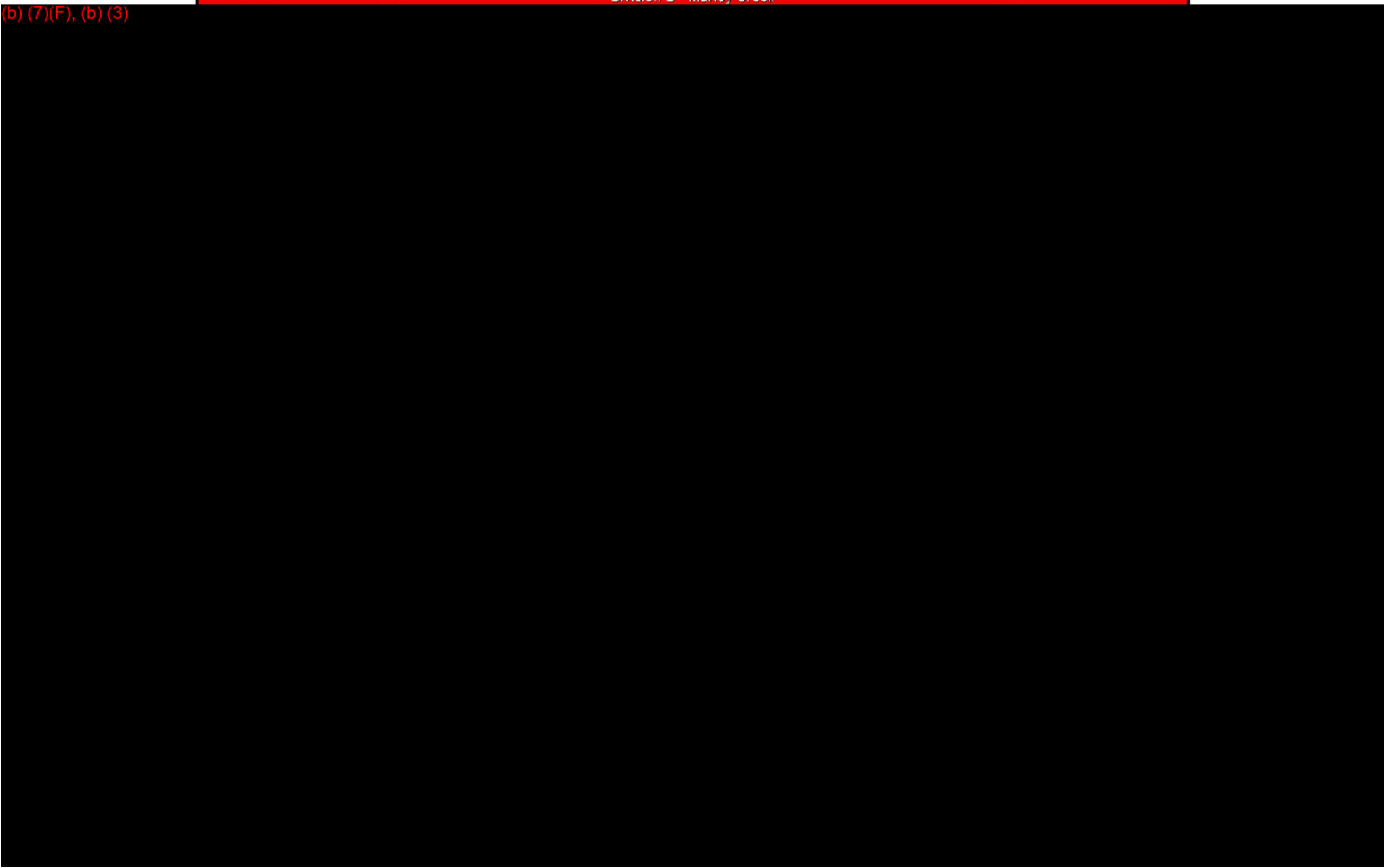
Mokena Station Worst Case Discharge Response Plan

MRLY-5 Strategy Map

Division B - Marley Creek

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division B – Marley Creek:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 50' of containment boom across the waterway below bridge. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	50'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	4-6		
	MANPOWER	OPERATORS	1		

PREPARED BY (RESOURCE UNIT LEADER):	APPROVED BY (PLANNING SECTION CHIEF):
ICS 204 – ASSIGNMENT LIST	DATE/TIME: / / -

PHMSA Sequence Number 100

ExxonMobil

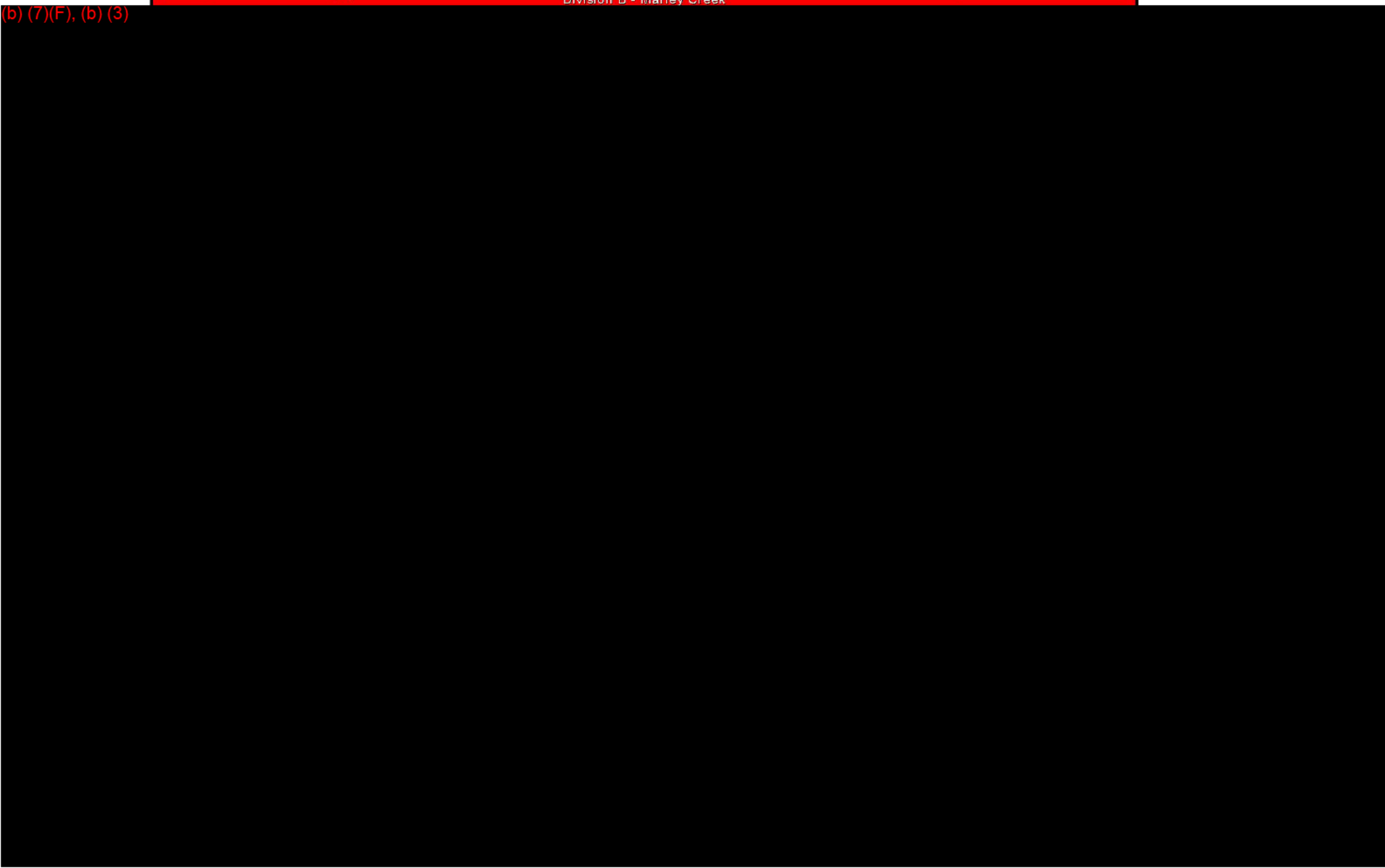
Mokena Station Worst Case Discharge Response Plan

MRLY-6 Strategy Map

Division B - Marley Creek

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division B – Marley Creek:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 100' of containment boom across the waterway below bridge. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	100'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	4-6		
	MANPOWER	OPERATORS	1		

PREPARED BY (RESOURCE UNIT LEADER):	APPROVED BY (PLANNING SECTION CHIEF):
ICS 204 – ASSIGNMENT LIST	DATE/TIME: / / -

PHMSA Sequence Number 100

ExxonMobil

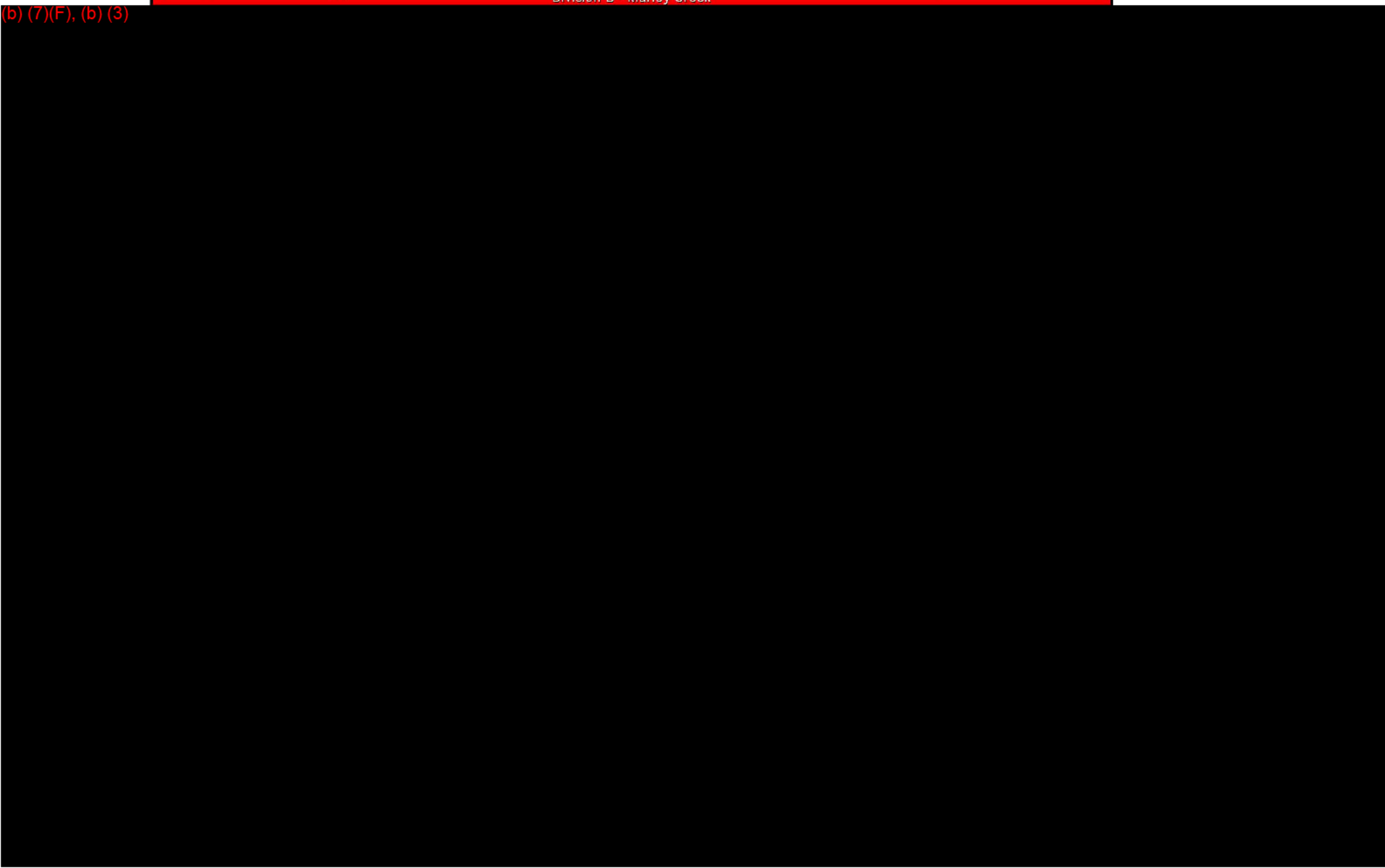
Mokena Station Worst Case Discharge Response Plan

MRLY-7 Strategy Map

Division B - Marley Creek

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division B – Marley Creek: MRLY-7: E Francis Rd Bridge & Marley Creek
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 100' of containment boom across the waterway below bridge. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	100'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	4-6		
	MANPOWER	OPERATORS	1		

PHMSA Sequence Number 100

PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

Division C Hickory Creek East – Overview Map

(b) (7)(F), (b) (3)

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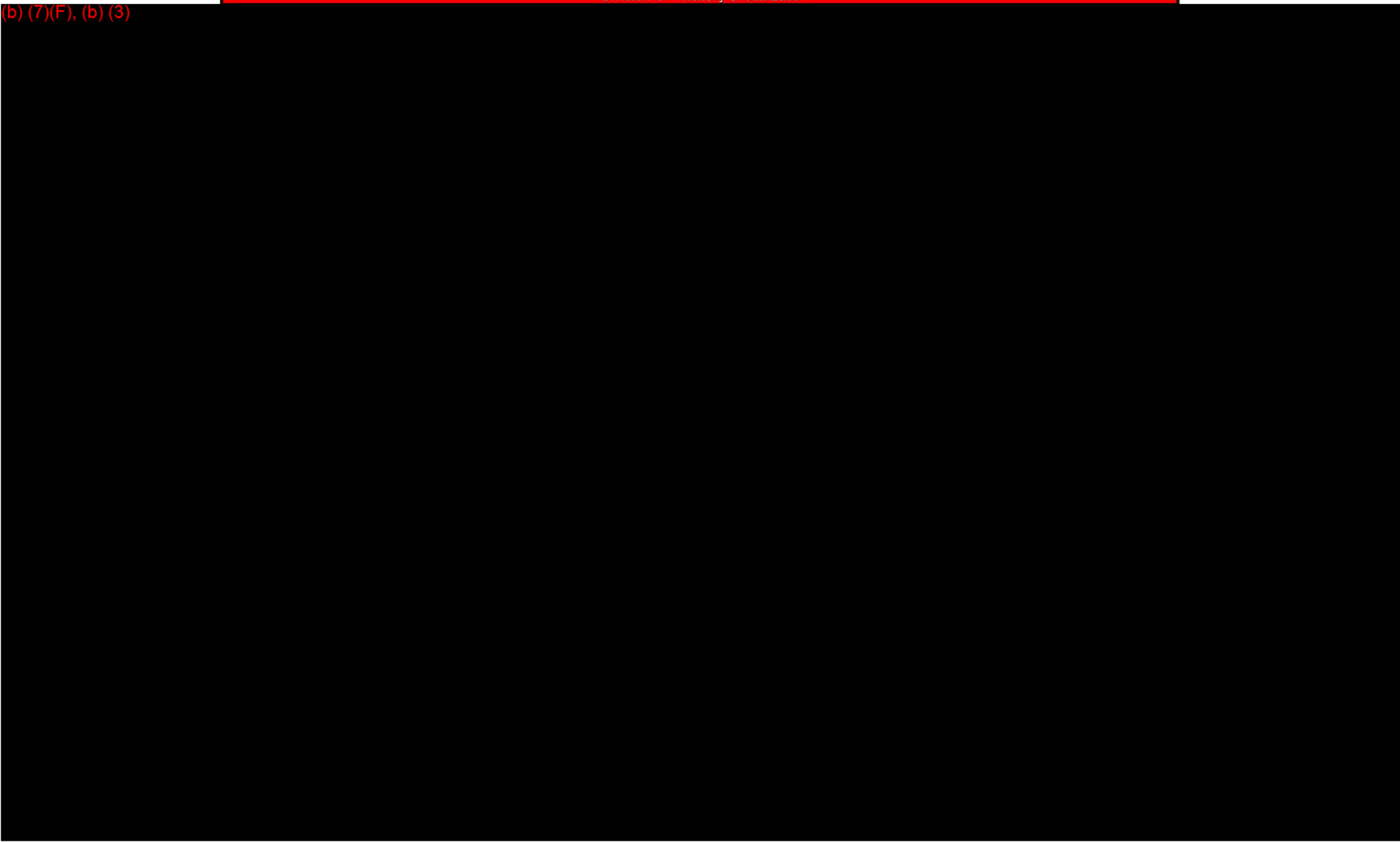
PHMSA Sequence Number 100

Division C – Strategy Maps & ICS204s

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division C – Hickory Creek East:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 150' of containment boom across Hickory Creek at and west of Marley Creek entrance into Hickory Creek. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	150'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

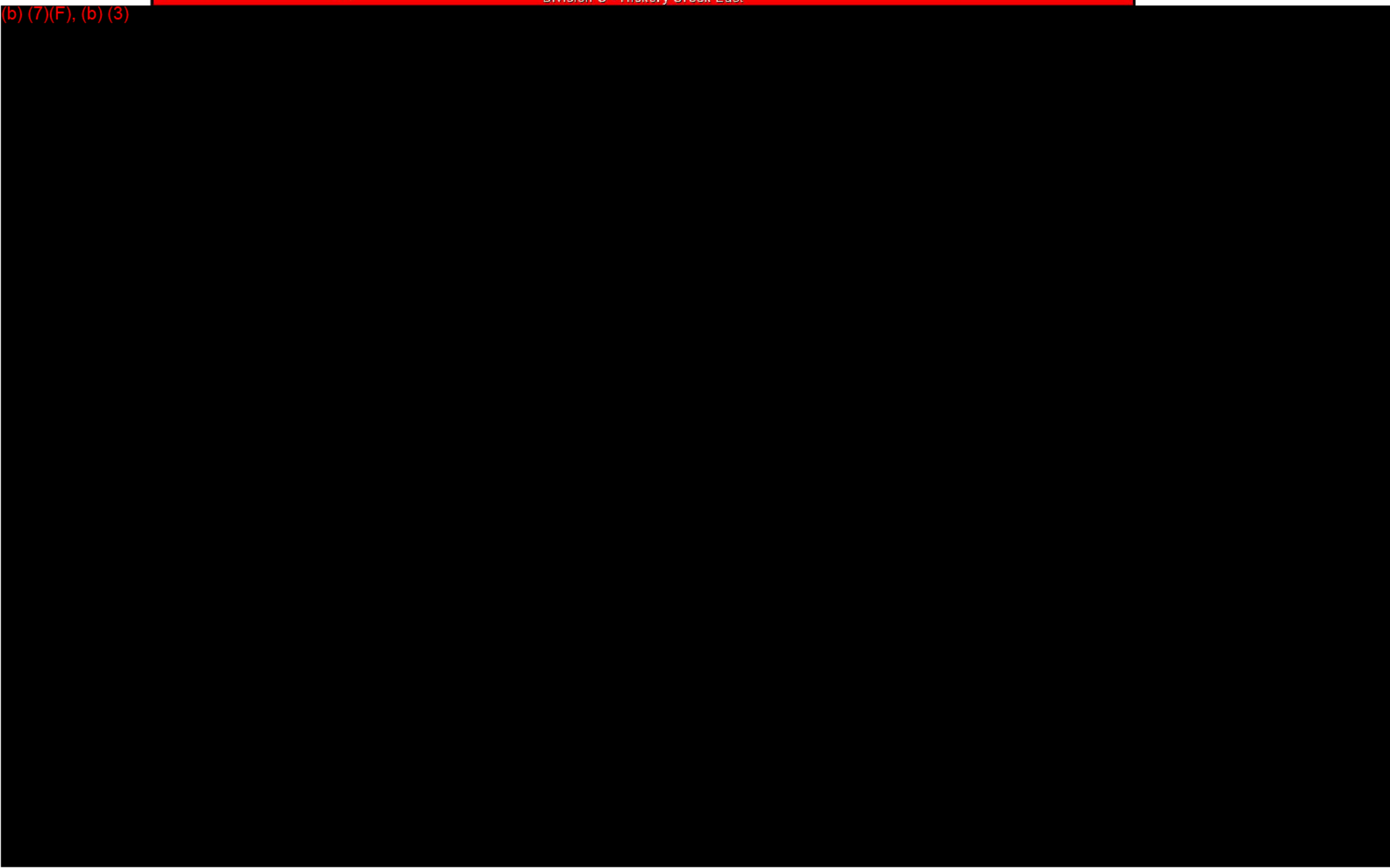
	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	4-6		
	MANPOWER	OPERATORS	1		

PHMSA Sequence Number 100

PREPARED BY (RESOURCE UNIT LEADER):	APPROVED BY (PLANNING SECTION CHIEF):
ICS 204 – ASSIGNMENT LIST	DATE/TIME: / / -

PHMSA Sequence Number 100

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division C – Hickory Creek East:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 100' of containment boom across Hickory Creek the end of Elm St. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	100'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

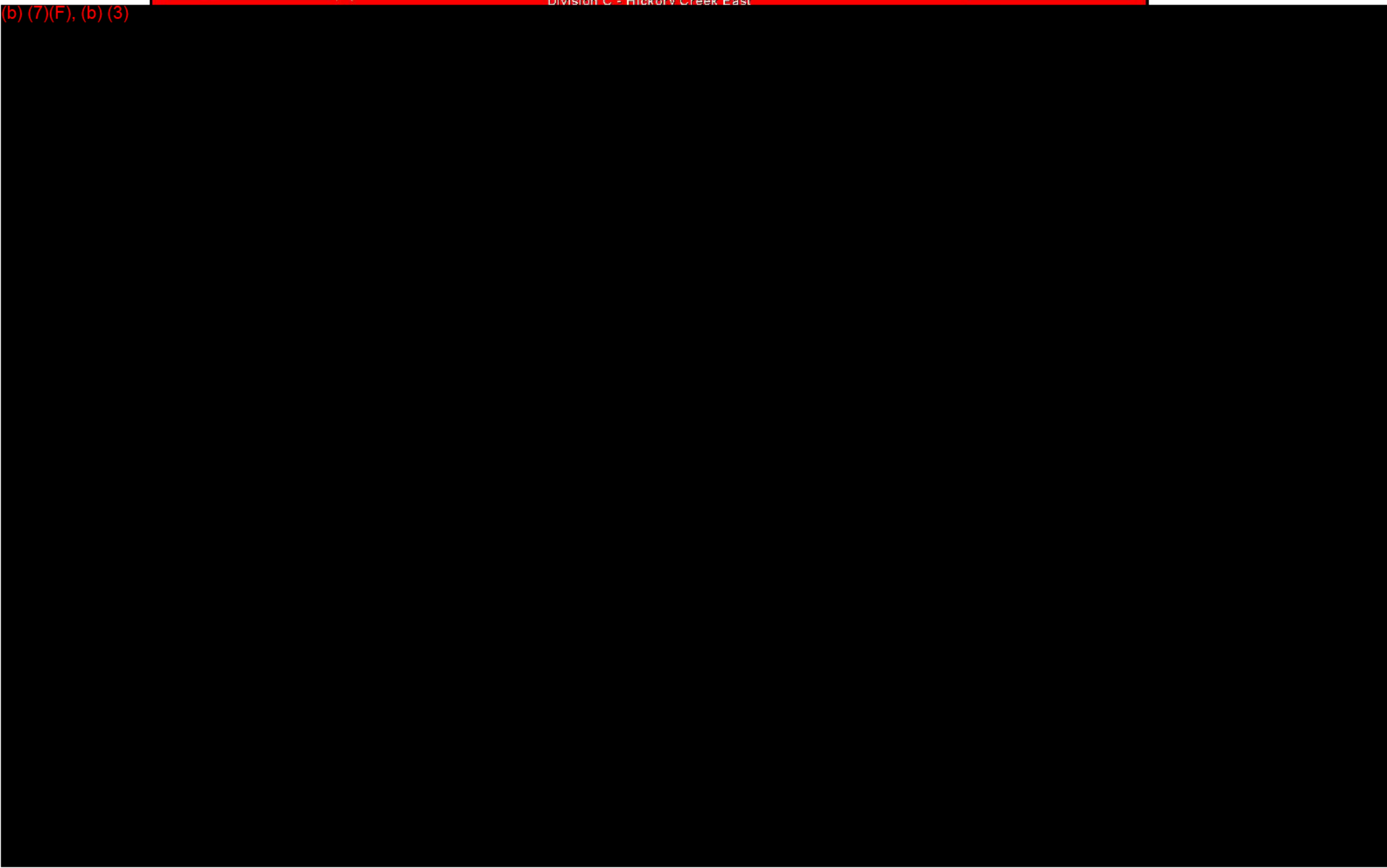
	MANPOWER	SUPERVISOR	1		

PHMSA Sequence Number 100

	MANPOWER	RESPONDERS	4-6		
	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division C – Hickory Creek East:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 100' of containment boom across Hickory Creek below bridge. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	100'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		

PHMSA Sequence Number 100

	MANPOWER	RESPONDERS	4-6		
	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

ExxonMobil

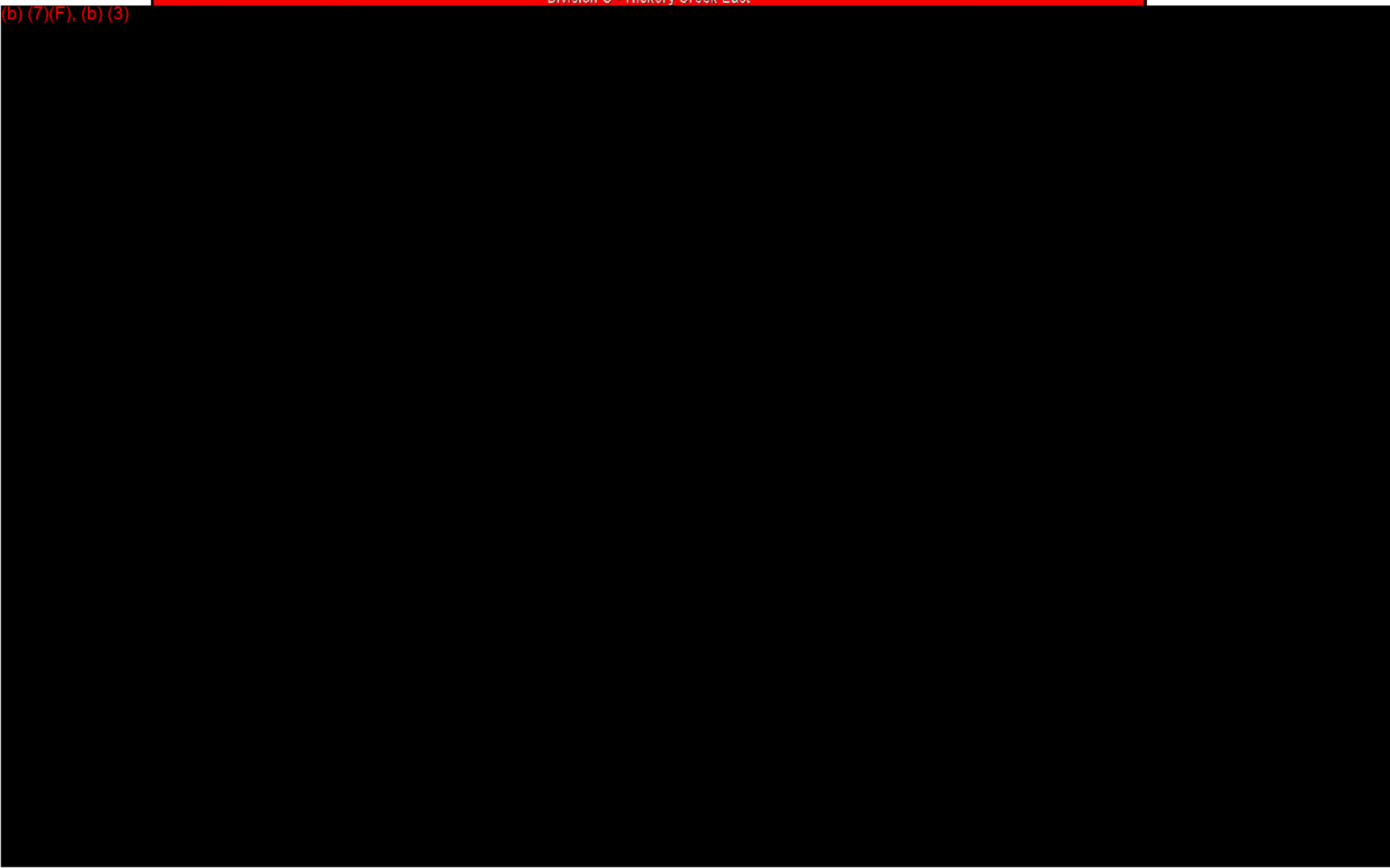
Mokena Station Worst Case Discharge Response Plan

HKRY-4 Strategy Map

Division C - Hickory Creek East

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division C – Hickory Creek East:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 200' of containment boom across Hickory Creek below bridge. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	200'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		

PHMSA Sequence Number 100

	MANPOWER	RESPONDERS	4-6		
	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

(b) (7)(F), (b) (3)

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PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division C – Hickory Creek East:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 400' of containment boom across Hickory Creek below bridge. Recover product with vacuum truck.

Site can also be used as a Staging Area.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	400'		
	VAC TRUCK	VAC TRUCK	2		
	STORAGE	FRAC TANK	2		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		

PHMSA Sequence Number 100

	MANPOWER	RESPONDERS	6-8		
	MANPOWER	OPERATORS	2		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

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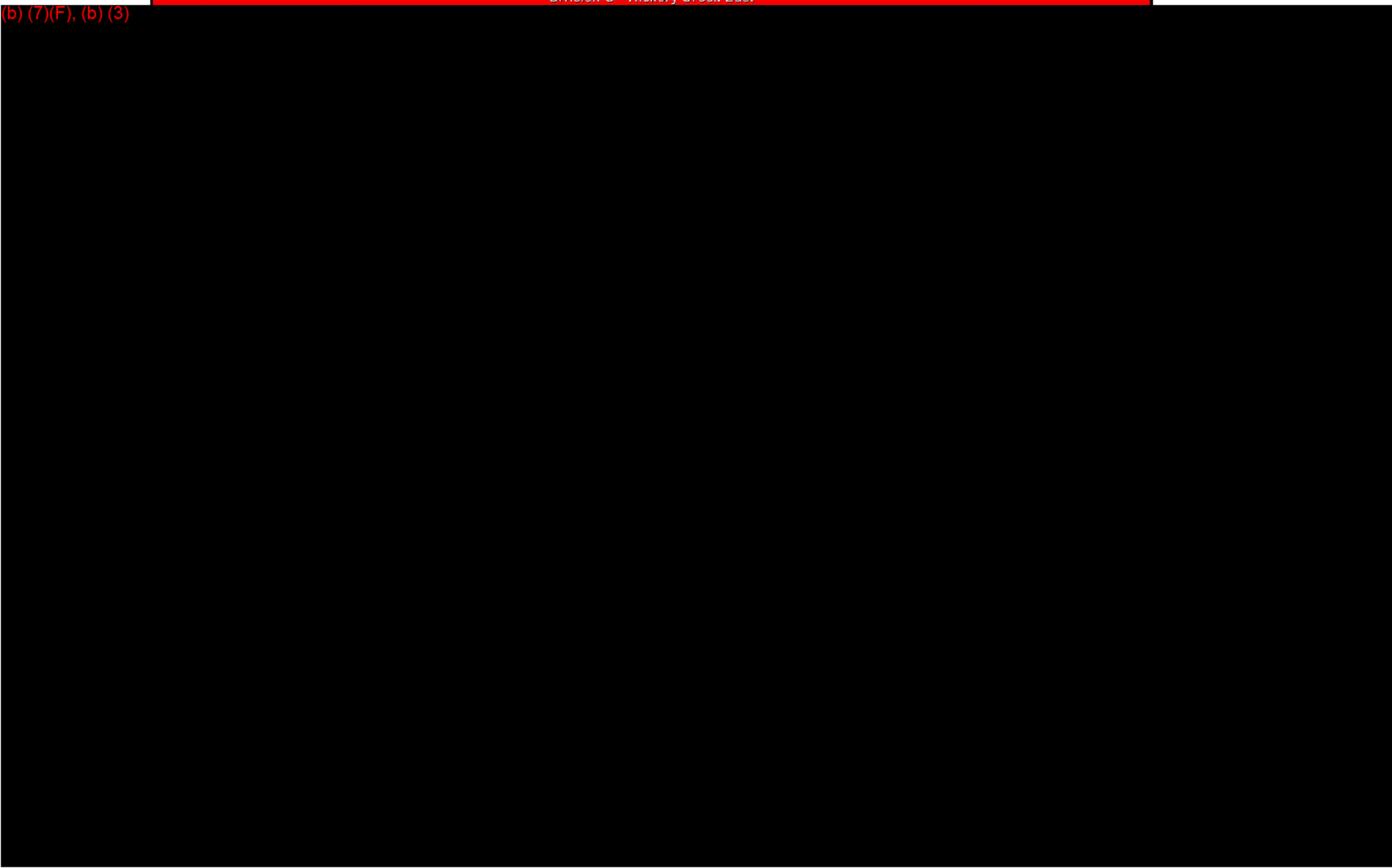


PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division C – Hickory Creek East:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 200' of containment boom across Hickory Creek. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	200'		
	VAC TRUCK	VAC TRUCK	2		
	STORAGE	FRAC TANK	2		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	6-8		

PHMSA Sequence Number 100

	MANPOWER	OPERATORS	2		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

ExxonMobil

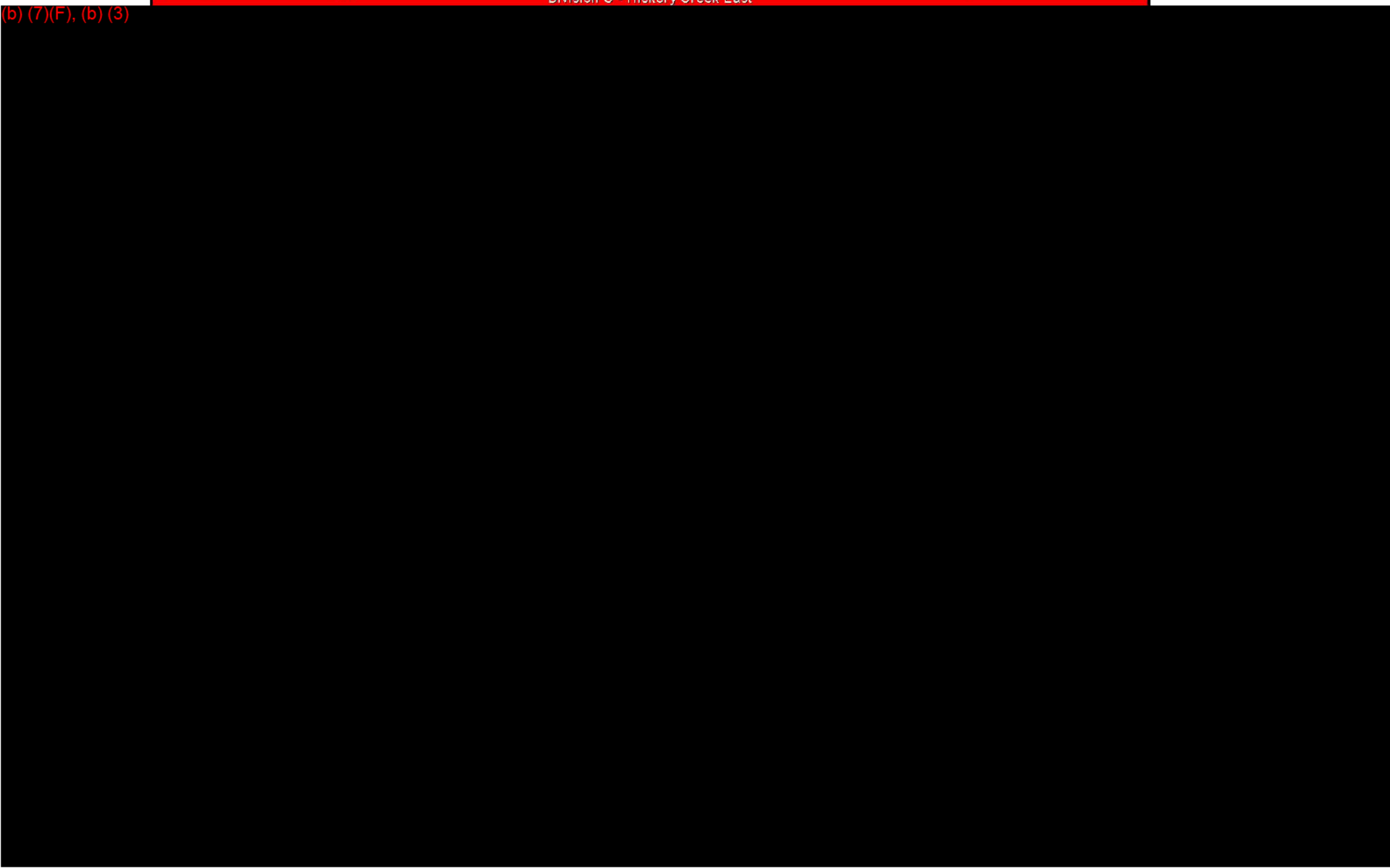
Mokena Station Worst Case Discharge Response Plan

HKRY-7 Strategy Map

Division C - Hickory Creek East

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division C – Hickory Creek East:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 600' of containment boom across Hickory Creek. Deploy 200' of protection boom along the south side of Hickory Creek to keep product in creek. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	600'		
	BOOM	PROTECTION BOOM	200'		
	VAC TRUCK	VAC TRUCK	2		
	STORAGE	FRAC TANK	2		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		

PHMSA Sequence Number 100

	MANPOWER	RESPONDERS	6-8		
	MANPOWER	OPERATORS	2		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

Division D Hickory Creek West – Overview Map

ExxonMobil

Mokena Station Worst Case Discharge Response Plan
Division D - Hickory Creek West
Overview Map

The Response Group

(b) (7)(F), (b) (3)

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PHMSA Sequence Number 100

Division D – Strategy Maps & ICS204s

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division D – Hickory Creek West:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 200' of containment boom across Hickory Creek. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	200'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	4-6		

PHMSA Sequence Number 100

	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

(b) (7)(F), (b) (3)

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PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division D – Hickory Creek West:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 250' of containment boom across Hickory Creek. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	250'		
	VAC TRUCK	VAC TRUCK	2		
	STORAGE	FRAC TANK	2		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	6-8		

PHMSA Sequence Number 100

	MANPOWER	OPERATORS	2		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

ExxonMobil

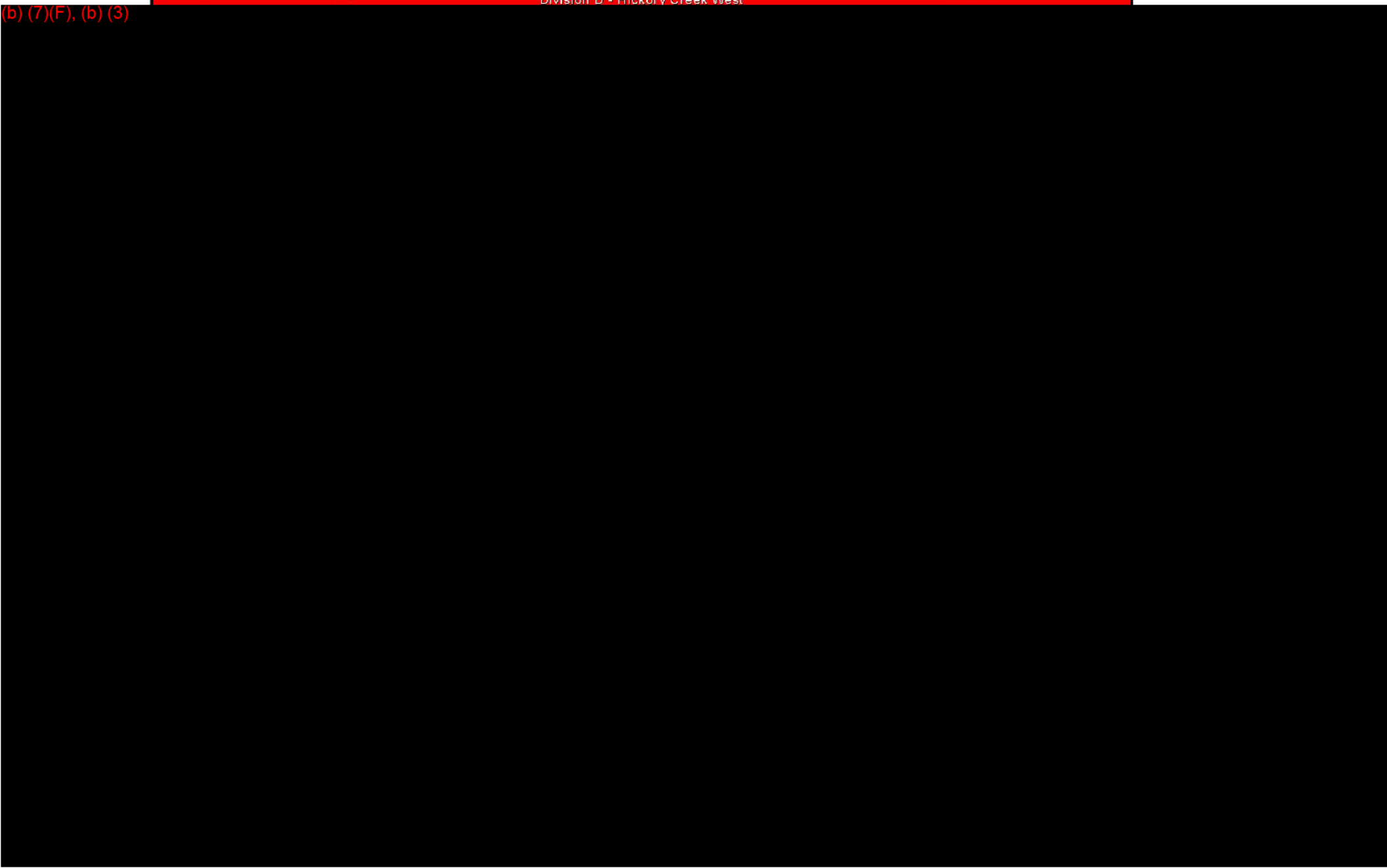
Mokena Station Worst Case Discharge Response Plan

HKRY-10 Strategy Map

Division D - Hickory Creek West

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division D – Hickory Creek West:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 200' of containment boom across Hickory Creek. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	200'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

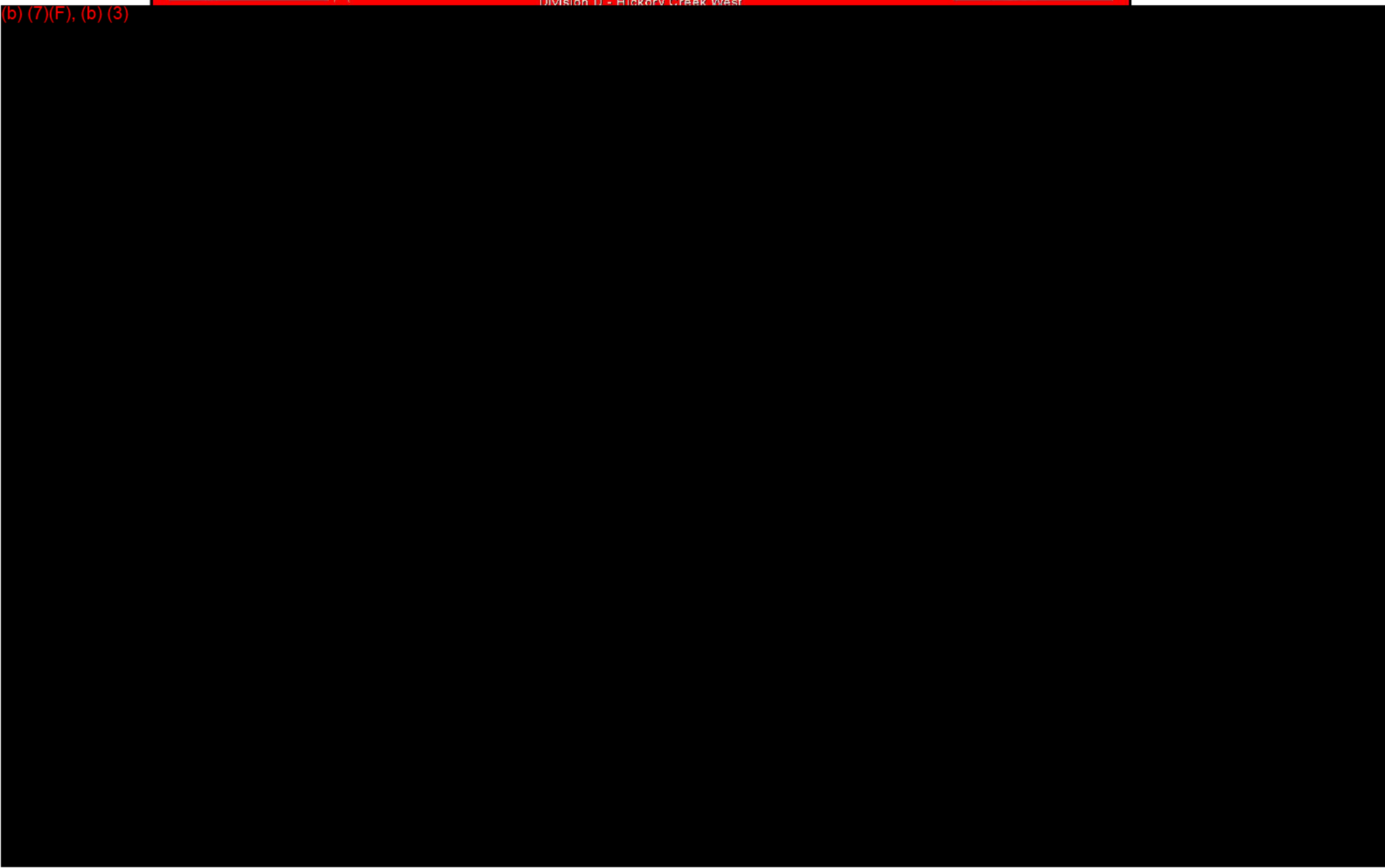
	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	4-6		

PHMSA Sequence Number 100

	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division D – Hickory Creek West:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 200' of containment boom across Hickory Creek. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	200'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	4-6		

PHMSA Sequence Number 100

	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

ExxonMobil

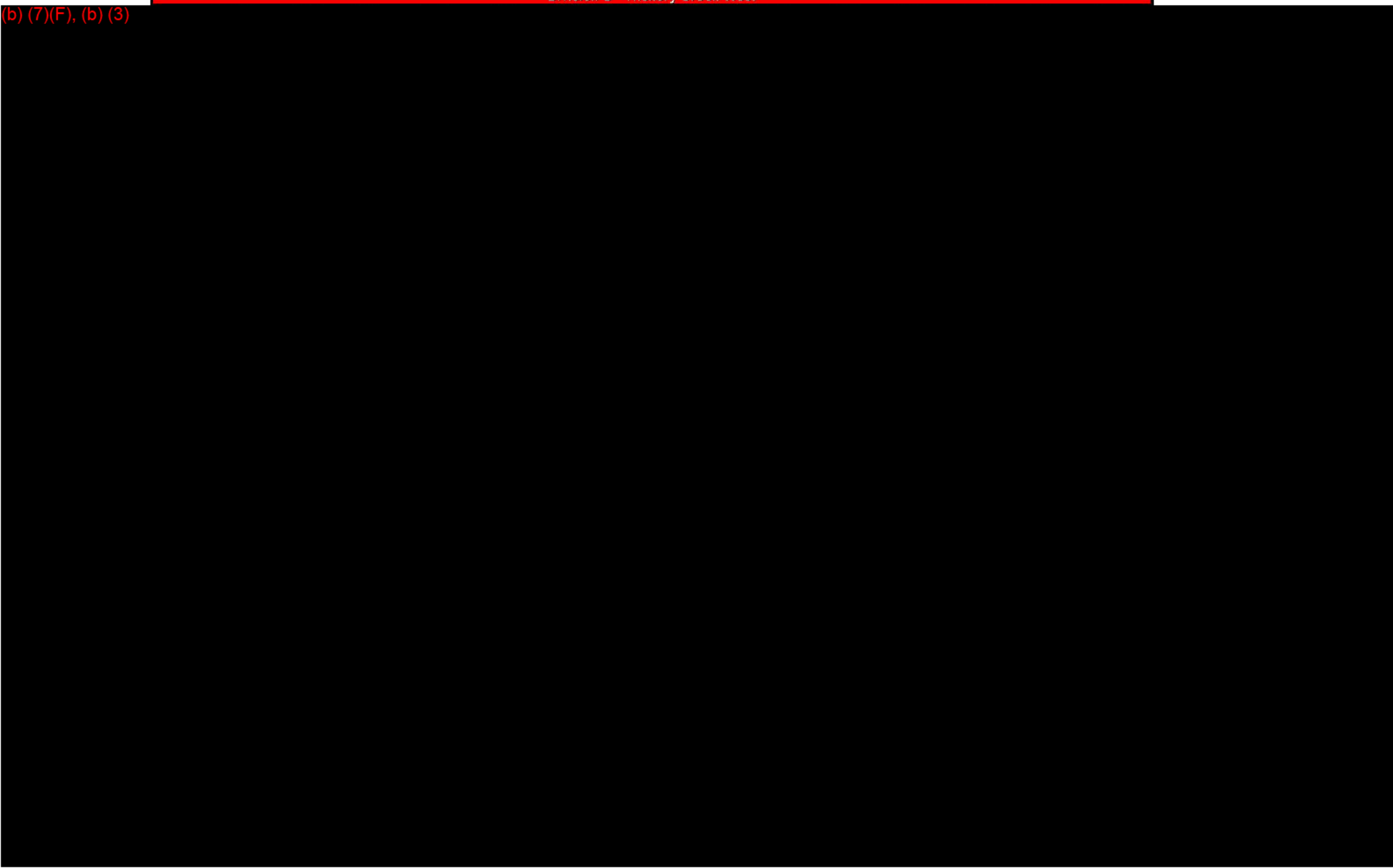
Mokena Station Worst Case Discharge Response Plan

HKRY-12 Strategy Map

Division D - Hickory Creek West

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division D – Hickory Creek West:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 750' of containment boom across Hickory Creek. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	750'		
	VAC TRUCK	VAC TRUCK	2		
	STORAGE	FRAC TANK	2		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	6-8		

PHMSA Sequence Number 100

	MANPOWER	OPERATORS	2		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

(b) (7)(F), (b) (3)

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PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division D – Hickory Creek West:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 200' of containment boom across Hickory Creek. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	200'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	4-6		

PHMSA Sequence Number 100

	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

(b) (7)(F), (b) (3)

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PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division D – Hickory Creek West:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 600' of containment boom across Hickory Creek. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	600'		
	VAC TRUCK	VAC TRUCK	2		
	STORAGE	FRAC TANK	2		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	6-8		
	MANPOWER	OPERATORS	2		

PREPARED BY (RESOURCE UNIT LEADER):	APPROVED BY (PLANNING SECTION CHIEF):
ICS 204 – ASSIGNMENT LIST	DATE/TIME: / / -

PHMSA Sequence Number 100

Division E Des Plaines River North – Overview Map

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

Division E – Strategy Maps & ICS204s

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division E – Des Plaines River North:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 1000' of containment boom across Des Plaines River below bridge. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	1000'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		

PHMSA Sequence Number 100

	MANPOWER	RESPONDERS	4-6		
	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

ExxonMobil

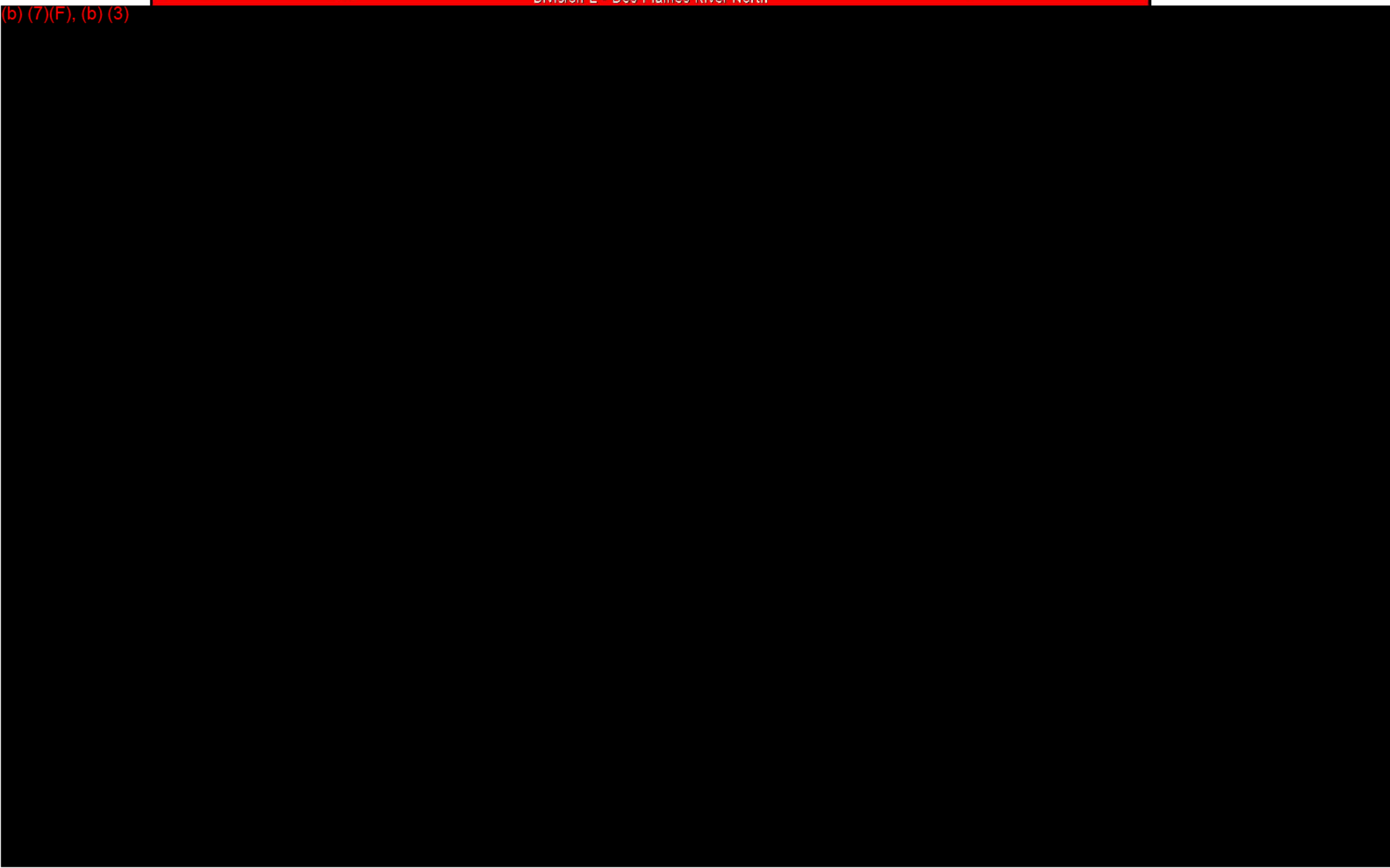
Mokena Station Worst Case Discharge Response Plan

DPLN-2 Strategy Map

Division E - Des Plaines River North

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division E – Des Plaines River North:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

(b) (3), (b) (7)(F) [redacted]

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	750'		
	BOOM	PROTECTION	800'		
	VAC TRUCK	VAC TRUCK	2		
	STORAGE	FRAC TANK	2		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

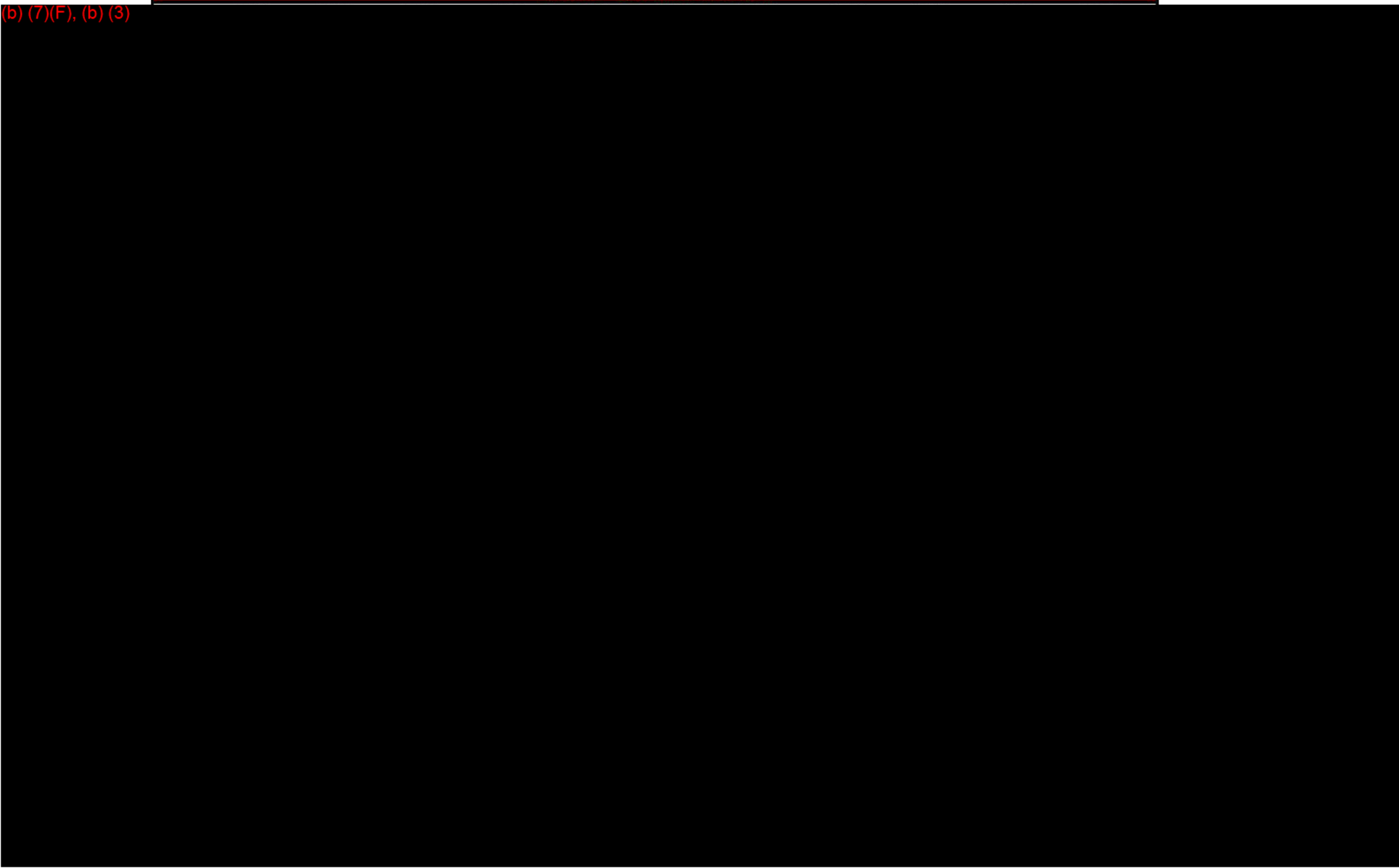
	MANPOWER	SUPERVISOR	1		

PHMSA Sequence Number 100

	MANPOWER	RESPONDERS	6-8		
	MANPOWER	OPERATORS	2		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division E – Des Plaines River North:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 1400' of protection boom to protect casino. Deploy 700' of containment boom along west side of Des Plaines River. Recover product with vacuum truck.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	700'		
	BOOM	PROTECTION	1400'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		

PHMSA Sequence Number 100

	MANPOWER	RESPONDERS	6-8		
	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

Division F Des Plaines River South – Overview Map

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

Division F – Strategy Maps & ICS204s

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division F – Des Plaines River South:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 1500' of deflection boom to divert product east of Treat Island. Deploy 600' of protection boom to protect inlets along river. Deploy 650' of containment boom across Des Plaines River on east side of Treat Island. Recover product with skimmers.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	650'		
	BOOM	PROTECTION BOOM	600'		
	BOOM	DEFLECTION BOOM	1500'		
	SKIMMER	SKIMMER	2		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		

PHMSA Sequence Number 100

	MANPOWER	RESPONDERS	6-8		
	MANPOWER	OPERATORS	2		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

ExxonMobil

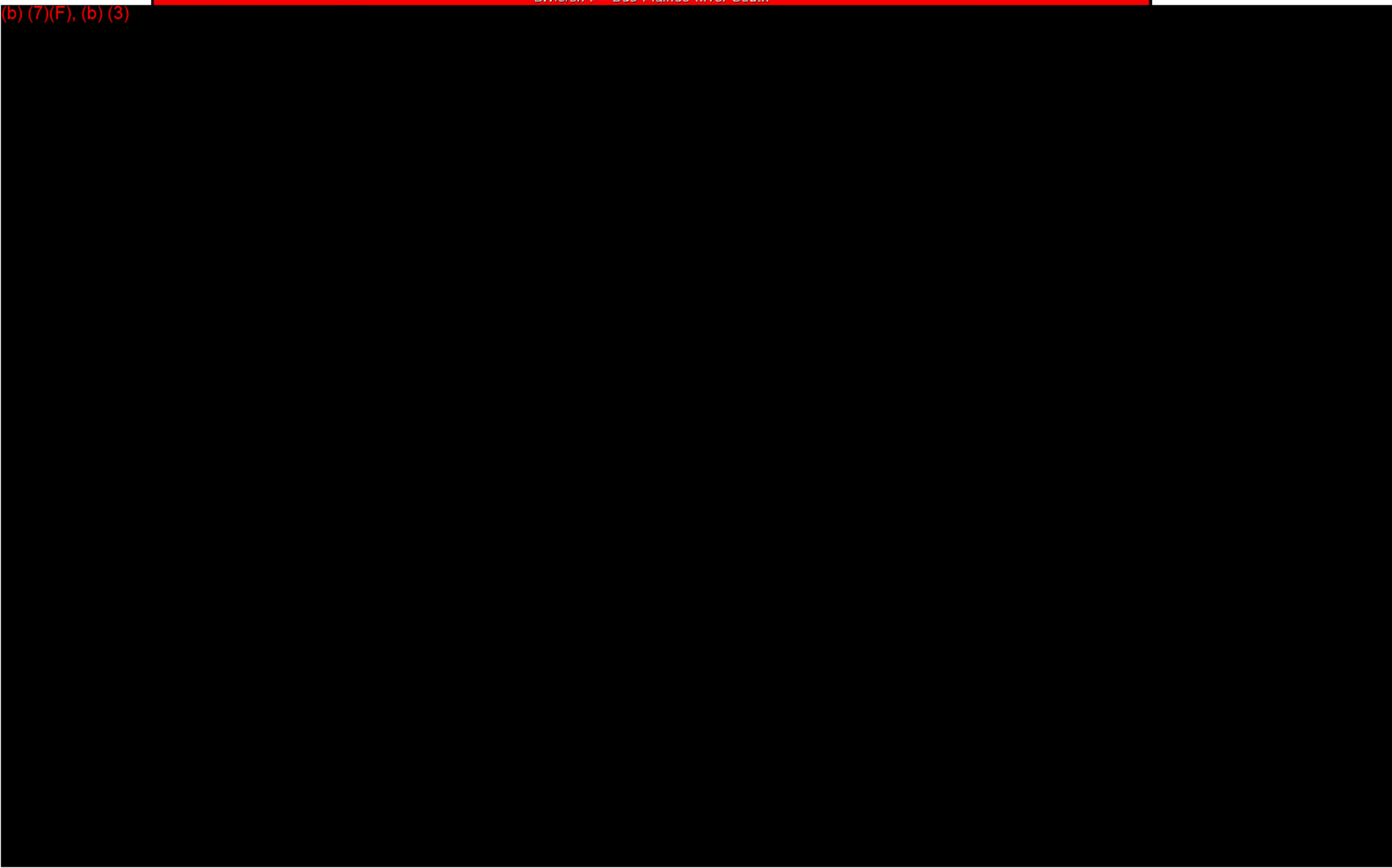
Mokena Station Worst Case Discharge Response Plan

DPLN-5 Strategy Map

Division F - Des Plaines River South

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division F – Des Plaines River South:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 400' of deflection boom to divert product east side of Des Plaines River. Deploy 200' of protection boom. Deploy 1050' of containment boom along east side of Des Plaines River. Recover product with vacuum trucks and skimmers.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	1050'		
	BOOM	PROTECTION BOOM	200'		
	BOOM	DEFLECTION BOOM	400'		
	VAC TRUCK	VAC TRUCK	2		
	STORAGE	FRAC TANK	2		
	SKIMMER	SKIMMER	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

PHMSA Sequence Number 100

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	8-10		
	MANPOWER	OPERATORS	3		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division F – Des Plaines River South:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 350' of protection boom to protect marina. Deploy 400' of containment boom along north side of Des Plaines River. Recover product with skimmer.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	400'		
	BOOM	PROTECTION BOOM	350'		
	SKIMMER	SKIMMER	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

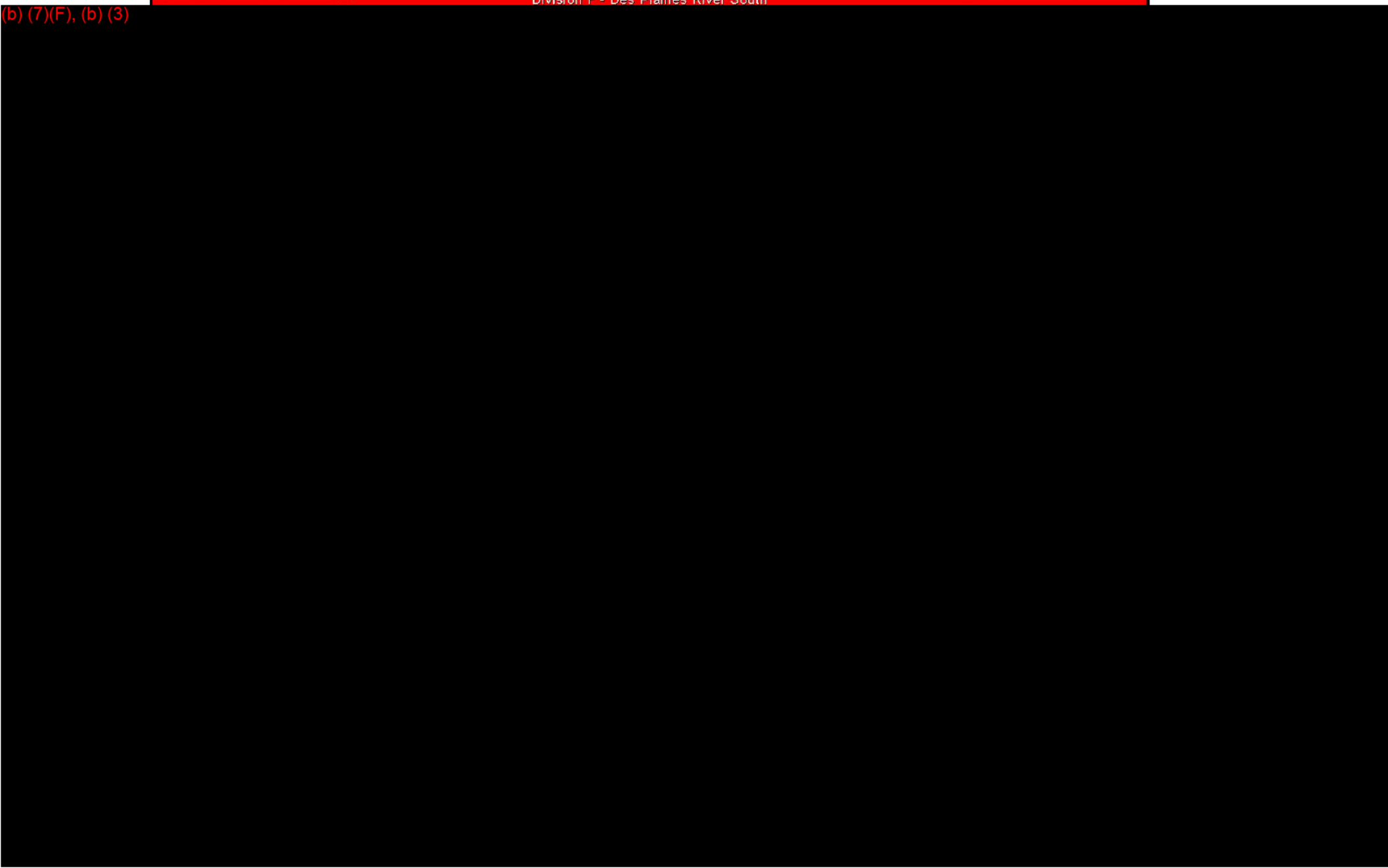
	MANPOWER	SUPERVISOR	1		

PHMSA Sequence Number 100

	MANPOWER	RESPONDERS	4-6		
	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	**DIVISION/GROUP:** Division F – Des Plaines River South:
INCIDENT NAME:	**OPERATIONAL PERIOD:**

TACTICAL OBJECTIVE

Maximize Protection of Environmentally-Sensitive Areas.

DESCRIPTION OF WORK

Deploy 4500' of protection boom to marsh at the mouth of the DuPage River.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	PROTECTION BOOM	4500'		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	2-4		
	MANPOWER	OPERATORS	0		

PREPARED BY (RESOURCE UNIT LEADER):	**APPROVED BY (PLANNING SECTION CHIEF):**
ICS 204 – ASSIGNMENT LIST	**DATE/TIME:** / / -

PHMSA Sequence Number 100

ExxonMobil

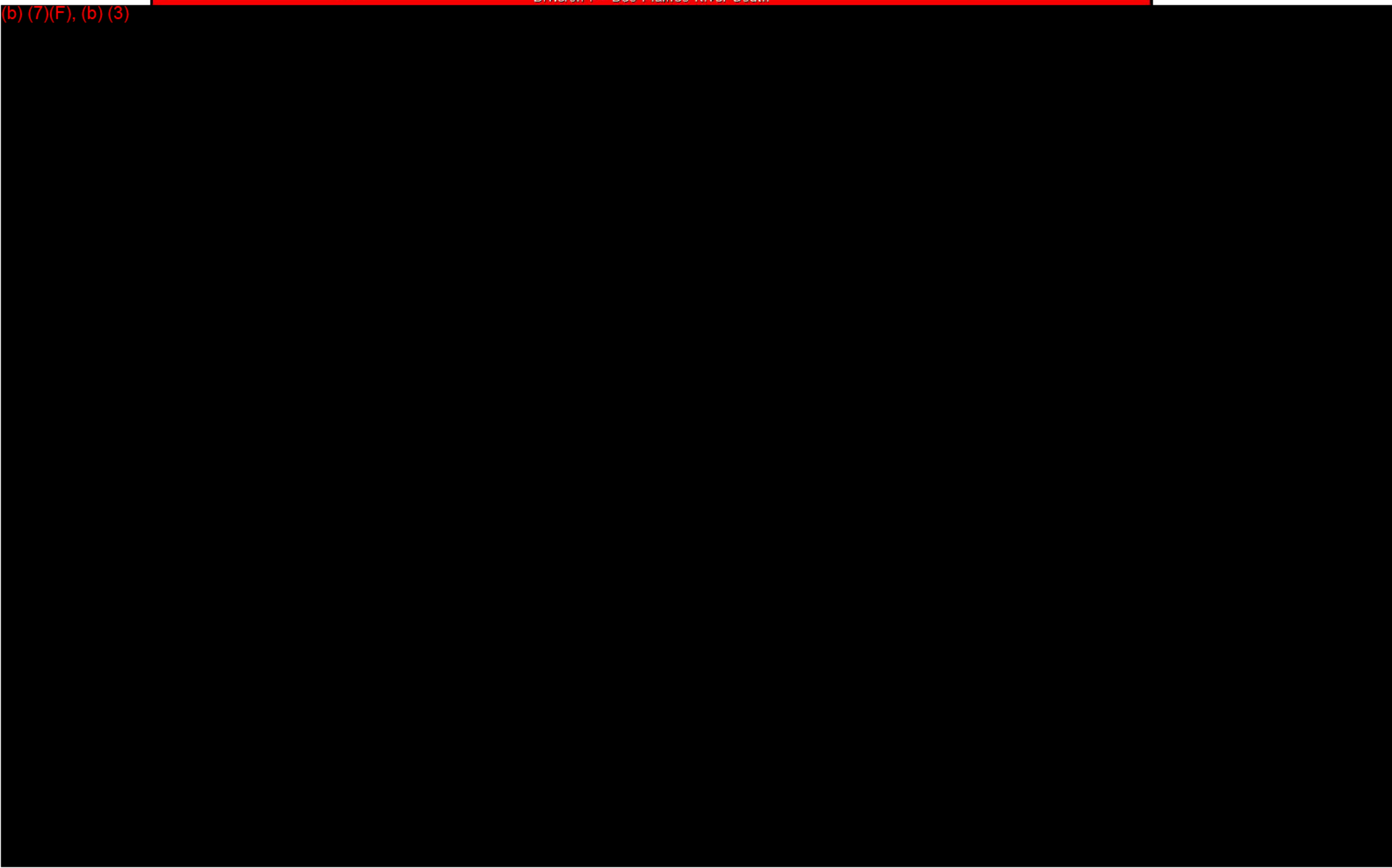
Mokena Station Worst Case Discharge Response Plan

DPLN-8 Strategy Map

Division F - Des Plaines River South

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	**DIVISION/GROUP:** Division F – Des Plaines River South:
INCIDENT NAME:	**OPERATIONAL PERIOD:**

TACTICAL OBJECTIVE

Maximize Protection of Environmentally-Sensitive Areas.

DESCRIPTION OF WORK

Deploy 1200' of protection boom to prevent product from entering inlets around Conroy Island.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	PROTECTION BOOM	1200'		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

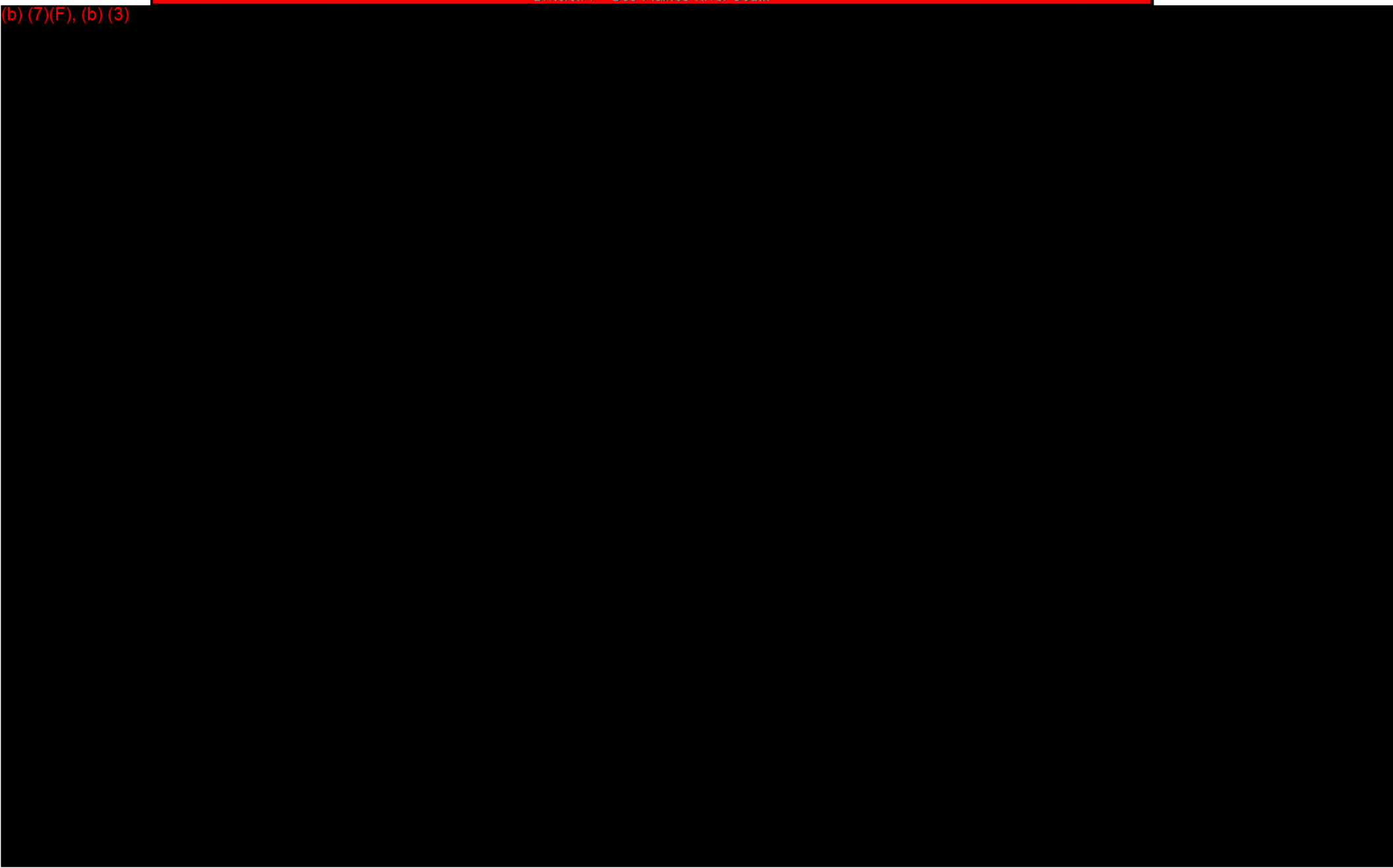
PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	2-4		
	MANPOWER	OPERATORS	0		

PREPARED BY (RESOURCE UNIT LEADER):	**APPROVED BY (PLANNING SECTION CHIEF):**
ICS 204 – ASSIGNMENT LIST	**DATE/TIME:** / / -

PHMSA Sequence Number 100

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division F – Des Plaines River South:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 500' of deflection boom north of Grant Creek to divert product east side of Des Plaines River. Deploy 1600' of protection boom to protect marina and 150' of protection boom to prevent product from entering Grant Creek. Deploy 1500' of containment boom along east side of Des Plaines River. Recover product with vacuum truck and skimmers.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	1500'		
	BOOM	PROTECTION BOOM	1750'		
	BOOM	DEFLECTION BOOM	500'		
	VAC TRUCK	VAC TRUCK	1		
	STORAGE	FRAC TANK	1		
	SKIMMER	SKIMMER	2		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PHMSA Sequence Number 100

PERSONNEL RESOURCES					
	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	6-8		
	MANPOWER	OPERATORS	3		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

(b) (7)(F), (b) (3)

[redacted]

PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division F – Des Plaines River South:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 1200' of containment boom along south side of Des Plaines River. Recover product with vacuum trucks

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	1200'		
	VAC TRUCK	VAC TRUCK	2		
	STORAGE	FRAC TANK	2		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		
	MANPOWER	RESPONDERS	6-8		
	MANPOWER	OPERATORS	2		

PREPARED BY (RESOURCE UNIT LEADER): **APPROVED BY (PLANNING SECTION CHIEF):**

PHMSA Sequence Number 100

ICS 204 – ASSIGNMENT LIST	DATE/TIME: / / -

PHMSA Sequence Number 100

ExxonMobil

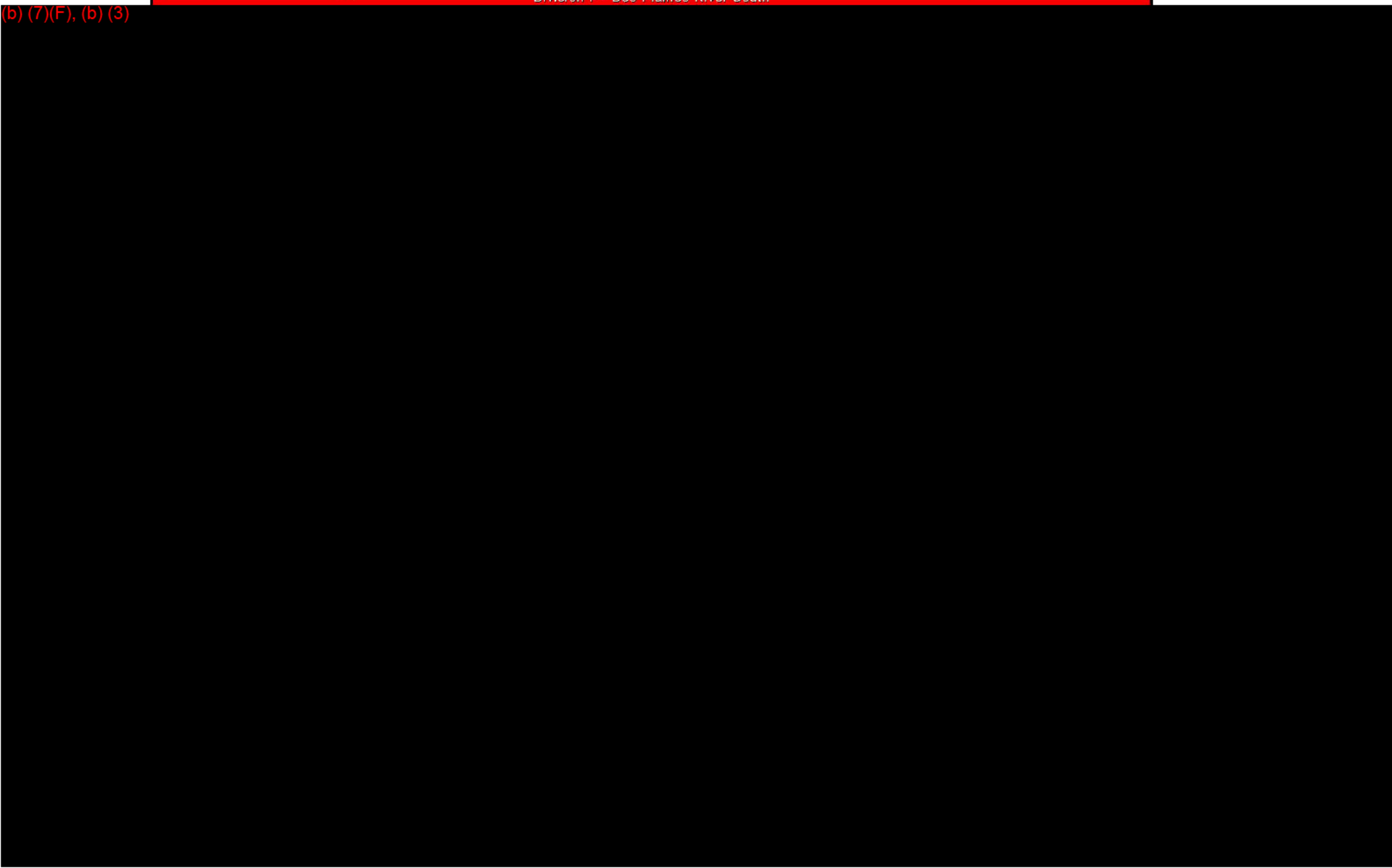
Mokena Station Worst Case Discharge Response Plan

DPLN-11 Strategy Map

Division F - Des Plaines River South

The Response Group

(b) (7)(F), (b) (3)



PHMSA Sequence Number 100

ICS 204 ASSIGNMENT LIST

BRANCH/AREA OF OPERATION:	DIVISION/GROUP: Division F – Des Plaines River South:
INCIDENT NAME:	OPERATIONAL PERIOD:

TACTICAL OBJECTIVE

Contain and recover product to extent possible to prevent product from bypassing containment and traveling downstream and impacting the environment.

DESCRIPTION OF WORK

Deploy 1450' of protection boom to protect marina. Deploy 700' of deflection boom along south side of Des Plaines River to divert product to containment boom. Deploy 650' of containment boom along north side of Des Plaines River. Recover product with skimmer.

LOCATION OF WORK

Latitude: (b) (7)(F), (b) (3) **Longitude:** (b) (7)(F), (b) (3)

HEALTH & SAFETY CONSIDERATIONS

See "Site Safety Plan" for instructions before entering site.

ENVIRONMENTAL CONSIDERATIONS

OPERATIONS PERSONNEL	PHONE	RADIO	PAGER

EQUIPMENT RESOURCES

SUPPLIER	RESOURCE TYPE	DESCRIPTION	QUANTITY	STATUS	DATE/TIME
	BOOM	CONTAINMENT BOOM	650'		
	BOOM	PROTECTION BOOM	1450'		
	BOOM	DEFLECTION BOOM	700'		
	SKIMMER	SKIMMER	1		
	PUMPS	PUMPS	AS REQUIRED		
	MISCELLANEOUS	FIRST AID KIT	1		
	MISCELLANEOUS	COMMS EQUIP.	1		
	MISCELLANEOUS	LIGHTING	AS REQUIRED		
	MISCELLANEOUS	PPE	AS REQUIRED		

PERSONNEL RESOURCES

	MANPOWER	SUPERVISOR	1		

PHMSA Sequence Number 100

	MANPOWER	RESPONDERS	6-8		
	MANPOWER	OPERATORS	1		
PREPARED BY (RESOURCE UNIT LEADER):			**APPROVED BY (PLANNING SECTION CHIEF):**		
ICS 204 – ASSIGNMENT LIST			**DATE/TIME: / / -**		

PHMSA Sequence Number 100

Mitigation Tactics for Worst Case Discharge & Other Areas

CFR §194.107(d)(1)(v)

Strategies/Methods for Spill Mitigation

A. **Mechanical Recovery**

General

The primary purpose of this section is to provide spill responders with a comparative assessment of plan expectations associated with various on-water and on-land spills.

Selection of specific response options is dependent on a number of factors including:

- Spill Location
- Spill Size
- Weather Conditions
- Environmental Sensitivities
- Site Access/Logistics

Pipeline spill response efforts will focus on containing the spread of oil and particularly keeping it from streams and rivers, and environmentally sensitive locations.

Land spill response options would be contained with interception trenches or soil berms (or sand bags), constructed to provide initial containment in dryer soils. In wetlands and lakes, booms would be used to contain spills. Construction of soil berms would be accomplished either by hand or with light (helicopter portable) equipment such as a Bobcat, if normal access is not available.

Response options at stream/river crossings could include the use of booms (larger streams) or blocking dams (Smaller streams). The

decision to use booms at larger streams must include an assessment of weather booms can be effectively mobilized to the site before a spill passes the boom location. As such, response efforts for spills at any major river crossing would include immediate mobilization of Spill Response Contractor to contain spilled oil from accessing or contaminating area further downstream.

Response activities at small streams would typically be accomplished by constructing small blocking dams (such as sand bags). Small submerged pipes can be added to permit passage of water.

Lake/Offshore response options would include the use of mechanical recovery. Initial response on all lake/ offshore spills will be accomplished using booming methods to contain oil.

B. **Treatment (Non-Mechanical Response Options)**

1. Bioremediation

a. General

Bioremediation is a viable method for permanent remediation of soils which are contaminated due to an accidental release of petroleum hydrocarbons. Before implementing bioremediation as an option, prior approval must be obtained from the appropriate state agency.

Petroleum hydrocarbons are degraded by a wide variety of microorganisms in an aerobic environment. Soil and water samples have been demonstrated to contain sufficient numbers of bacteria that can selectively use hydrocarbons as their sole carbon source. The best inoculum for remediation of hydrocarbon contamination is the contaminated soil itself.

Successful bioremediation requires the control of basic microbial principals. These include:

1) The presence of microorganisms capable of degrading the target compounds.

2) A compatible environment relative to pH, temperature, moisture, osmotic pressure, absence of inhibitory substrates, and the absence of microbes that are excessively competitive to their existence.

3) Nutrients such as nitrogen and phosphorus for cellular growth.

4) A substrate from which to derive their carbon source.

Within controlled conditions, bioremediation can remediate contaminated soils and groundwater successfully and inexpensively.

b. Land Application Techniques

In situ bioremediation has recently been adopted as a viable alternative for the remediation of soils contaminated with petroleum hydrocarbons, including crude oil, jet fuel, diesel, gasoline, and/or aviation gas.

Bioremediating a spill on land can be done by:

1) Enhancing the soil environment with nutrients such as nitrogen and phosphorus, using fertilizer to stimulate microbial cellular growth.

2) Introducing a sufficient amount of oxygen by either tilling or venting to create an aerobic environment.

3) Controlling or optimizing temperatures to increase microbial metabolism.

c. Groundwater Bioremediation Techniques

Groundwater is a long-term mechanism for spreading hydrocarbon contamination. The groundwater can be contaminated by the mobile free product (free phase) and the dissolved phase. Since soil slowly releases the product, and soil is the sole source of contamination, both the soil and groundwater should be treated simultaneously.

In situ bioremediation of contaminated groundwater utilizes injection wells or infiltration galleries to introduce nutrients and oxygen into the contaminated groundwater. Nutrients and oxygen are introduced upstream of the contaminated plume and are allowed to diffuse through the soils and groundwater to stimulate the microbes. These systems can be flown in by helicopter to islands or beach cleanup sites. They are designed to be set up in a few hours.

2. Incineration

Incineration is a proven way to dispose of spilled oil, oiled debris, sorbents, and other material. A burn permit must be obtained from GLO and USEPA before incineration begins. Several reasons exist for employing an incinerator, ranging from remote sites to large quantities of spilled oil and oil-contaminated debris.

Incineration systems currently available include:

a. Boom-mounted flare burners

b. Pit-type incinerators

c. ACS portable incinerators

d. Seward International Flaring burning Disposal System

e. Trecan incinerator

Boom-mounted flare burners such as an offshore production test burner can be installed on a barge and fed oil as it is recovered. These units can burn up to 10,000 Bbls. per day of oil or emulsions which contain up to 40 percent water. Flare burners can also be set up on shore and fed oil from temporary storage tanks nearby.

Pit-type incinerators can also be used on-site for burning oil, sorbents, and oil-contaminated debris. Approximately 8 to 14 tons of material can be burned per hour. Heavy equipment is needed on-site to construct the pit. Open-pit burning without the incinerator is possible at some remote sites if sufficient volatile hydrocarbons are present to maintain combustion and if the

problems associated with excavating an open pit in permafrost can be overcome.

3. In Situ Burning

In Situ burning is generally possible only for oil thicknesses greater than 0.1 inch, wave heights less than 6 ft, winds less than 20 knots, and oil-water emulsions containing 50 percent or more oil. Considerations for proximity to other oil platforms (e.g., safety) and proximity to coastal communities (e.g., health effects from the smoke plume) must also be considered.

a. Regulatory Approvals

The regulatory mechanism requires approval for the use of burning in the treatment of offshore spills on a case-by-case basis by the Regional Response Team (RRT). The federal On-Scene Coordinator (OSC), will collect the necessary data which will be analyzed by the RRT in making their decision. If human life is in danger, the OSC has unilateral authority to authorize the use of in situ burning.

The following is the step-by-step process which must be followed in order to use in situ burning:

1) The OSC and Incident Commander (IC) will determine if mechanical means of containment and recovery will work. While doing this, they will compile all available information for later use.

2) The RRT will review the information to determine whether or not in situ burning may be used.

3) Based partially on the relative location of the spill and the atmospheric conditions, the RRT will make the final determination as to whether in situ burning may be used.

An open burning permit from the appropriate state agency is also required. Although this permit can be obtained in a

short period of time, it should be requested immediately upon deciding to perform a burn.

If the Incident Commander assesses the situation and concludes that in situ burning is a viable option in the treatment of the spill, he should inform the OSC of his intentions immediately. This will aid in decreasing the delay time which occurs while seeking approval from the RRT. The Incident Commander should also place the in situ burning crews and equipment managers on standby.

b. In Situ Burning Techniques

Water application is the most common use of in situ burning. The spilled oil is contained either naturally or by mechanical means and then moved to a safe location. The 3M Corporation and other vendors have constructed a fire boom which can withstand the high temperatures associated with in situ burning. Clean Gulf Association maintains an inventory of these booms. The use of a containment boom causes heavy concentrations of oil to congregate, allowing for the deployment of an igniter source into the oil slick by either helicopter or surface craft.

c. Termination Conditions

In situ burning activities in a given area may be terminated because of conditions such as:

1) Adverse weather

2) Darkness--vessels may be able to operate with limited light

3) Oil weathered to unburnable state

4) Oil layer too thin for successful burning

5) Regulatory agency decision to terminate

6) Completion of burning activities

Specific guidelines will be set forth by the Incident Commander in consultation with the OSC.

In the event the burn must be terminated, it should be done as quickly and safely as possible. Extinguishing the burn may be achieved by opening the containment boom up and allowing the thickness of the oil on the water surface to decrease or by towing the boom faster and entraining the oil under the boom.

d. Safety Precautions

In Situ burning can be dangerous and should only be performed by qualified personnel. Not only are there dangers associated with the toxicity of the spilled material, but support personnel will be working near an open flame. The chemicals associated with in situ burning can be dangerous and like any chemical must be handled properly to avoid adverse effects. Information in this section is presented in a manner that will explain some of the safety precautions which should be taken during the burning operations. As with any cleanup operations, all federal and state OSHA guidelines must be followed.

Material Safety Data Sheets (MSDS) should be thoroughly reviewed before the use of any chemical. The information from the MSDS will explain what safety precautions should be used while working with the chemicals. For any chemical used during in situ burning operations, the MSDS for those chemicals must be on-site and accessible by all personnel.

Personal protective equipment should be worn at all times in accordance with federal and state OSHA guidelines. Normal work clothing should consist of chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield. It is also recommended that anyone working in a close proximity to the spill during the burn should wear an appropriate respirator. This is to prevent inhalation of the toxic fumes which are created during combustion of the oil.

Operators of vessels and aircraft should make auxiliary personnel aware of the particular safety concerns associated with their operations. The crews of these vessels and aircraft have training and experience that go beyond the scope of this manual. Their instructions concerning the operation of and safety precautions related to their craft should be heeded without questions. Anyone operating a vessel or aircraft for burning activities should be trained and certified in in-situ burning operations.

4. Dispersants

a. General - Marine Environments Only!

Dispersant use is generally possible only for oil thicknesses of 0.001 to 0.01 inches, in wave heights of 0.25 to 10 ft, and in wind speeds of 4 to 25 knots. Typically, some wave action is desirable to increase the mixing of the dispersant. Dispersants must also be typically applied within 24 to 48 hours after the spill occurs or they may not be effective due to natural forces which change the properties of the oil.

b. Regulatory Guidelines

The regulatory mechanism requires approval of the use of dispersants for Lake/Offshore spills on a case-by-case basis by the federal On-Scene Coordinator (FOSC). The decision to use dispersants is made jointly by the FOSC and representatives from both the Environmental Protection Agency (EPA) and General Land Office (GLO). All three representatives are members of the Regional Response Team (RRT) and any use of dispersants must have approval from the RRT. However, if human life is in danger, the OSC has unilateral authority to authorize the use of dispersants.

The following is the step-by-step process which must be followed in order to use dispersant:

1) The OSC and Incident Commander (IC) will determine if mechanical means of containment and recovery will work. While doing this, they will compile all available

information related to the spill (i.e., time, weather conditions, etc.) for later use.

2) The RRT will review the information to determine whether or not dispersants may be used.

3) Based partially on the relative location of the spill, the RRT will make the final determination as to whether dispersants may be used.

The locations where dispersants may occur are:

1) Information to be provided by Area Committees.

2) Dispersants acceptable for oil spill control must be listed on EPA's Acceptance List before they can be used.

c. Dispersant Application Techniques

Dispersants can be applied from vessels, helicopters, fixed-wing aircraft or manually. The most commonly accepted method is the vessel application method. Even though it is not considered the most effective for all spills, its cargo capacity is considerably greater.

1) Manual Application

Manual application consists of applying the dispersant from a garden sprayer which can only hold approximately three to five gallons of chemical at any time. This makes manual applications an effective method primarily for small spills and confined areas. If this method is used, the equipment should be fitted with nozzles which produce a coarse spray.

2) Vessel Application

The most common mode of dispersant application is by vessel. Figure-1.8-2 shows a typical vessel application of a dispersant with a spray boom. Included on this figure is a discussion of the

limitations and advantages of vessel application. Figure-1.8-3 discusses the physical parameters which must be taken into consideration during the application of the dispersant from vessel. The type of spaying systems available for vessel operations include the bow-spray system, the Warren Spring Laboratory (WSL) system, and the firefighting system.

The bow-spray system was developed to apply water-based dispersants which can be diluted with sea water. This system utilizes a sea water pump with a 100- to 150-gpm capacity and an operating pressure of about 80 psi. The bow-spray system should be installed forward at the point where the bow wave breaks from the vessel's hull. This influences the amount of coverage and the effectiveness of the dispersant.

The WSL system is designed to apply dispersants in an undiluted form. This system employs a low-pressure, low-volume application method to spray the dispersant on the water's surface. This system is similar to the bow-spray in that it uses a boom to deploy the dispersant. However, the WSL system is placed well behind the wake of the boat and breaker boards are towed behind the booms to facilitate agitation of the dispersant-oil mixture. The WSL system can be used offshore and nearshore, depending upon the design of the system. Dispersants may be diluted with sea water.

Another potential dispersant application system available to vessels is the firefighting system. It can be used when portable pumps are not available. This system is generally available on most larger vessels, since they have a firefighting system installed on-board. One problem with this system is they generally have a very high capacity. Since dispersants are usually educted or injected into the fire-monitor

system to make a solution of between 1 and 10 percent dispersant in sea water, more dispersant may be used than is actually needed. A metering valve or water bleed valve installed in the educator suction pipe can solve this problem. If no spray booms are available, the outlet hose of the fire-monitor system should be raised to about a 45□ angle to provide greater coverage and to enable the spray to hit the water surface in a rain-like form rather than a solid, high-pressure stream.

3) Aerial Application

Aerial application is the most effective way to treat a large oil slick in a short period of time. Aircraft allow treatment of spills at a greater distance from the base of operations than is practical with vessels. Aerial application lessens decontamination concerns. Since the vessel passes through the spill, it will track oil with it while the aircraft never actually touches the oil spill. The limiting factors of aerial application are the aircraft's payload, operating speed, distance from the slick to the operating base, time required for the aircraft to reposition itself over the slick, and the dispersant reloading and refueling time required per trip.

Another factor which must be considered is weather. Weather could become a significant factor in the use of aerial-applied dispersants and should be considered prior to the use of this method. To obtain the best results from aerial application, the dispersant should be applied in its undiluted form. "Self-mix" dispersants have been found to be the most effective in aerial application as they require little mixing energy.

The two types of aircraft common in aerial applications are fixed-wing aircraft and helicopters.

d. Termination Conditions

Dispersant application activities in a given area may be terminated because of conditions such as:

1) Safety concerns.

2) Adverse Weather.

3) Darkness, especially for aircraft. Vessels may be able to operate with limited available light.

4) Successful dispersion.

5) Oil weathered to indispersible state.

6) Oil too spread out for successful dispersion.

7) Regulatory agency decision to terminate.

e. Safety Precautions

Dispersants, like any chemical, must be handled properly. The information in this section is presented in a manner that will explain some of the safety precautions which must be taken while handling a dispersant. As with any cleanup operations, all federal and state OSHA guidelines should be followed.

Material Safety Data Sheets (MSDS) should be thoroughly reviewed before the use of any chemical. The information from the MSDS will explain what safety precautions should be used while working with the dispersant. The MSDS also provides the operator useful information concerning the conditions of the chemicals use and with what chemicals the dispersant can be used.

Personal protective equipment should be worn at all times in accordance with federal and state OSHA guidelines. The normal work clothing should consist of chemical resistant gloves, a chemical suit, rubber boots, chemical safety goggles, and a face shield. If it is anticipated that air

concentrations could exceed 25 ppm Time Weighted Average (TWA), respiratory protection should also be worn. This protection should be used by personnel at all times when handling the dispersant.

Great care should be used while working around vessels or aircraft. The many hazards associated with the general operations of this equipment is compounded with the rolling of vessels and the presence of rotating props.

Operators of vessels and aircraft should make auxiliary personnel aware of the particular safety concerns associated with their operations. The crews of these vessels and aircraft have training and experience that go beyond the scope of this manual. Their instructions concerning the operation of and safety precautions related to their craft should be heeded without question.

C. Storage

Small quantities of used sorbents will be stored in plastic bags or barrels and large quantities will be stored in lined dumpsters provided by BFI or other approved contractor. Liquids recovered during offshore spill cleanup will be stored in dracones/pillows until they can be replaced with skid tanks or "Baker" tanks deployed on barges. Liquids recovered during onshore spill cleanup and at the shoreline will be stored in tank trucks, vacuum trucks, skid tanks or "Baker" tanks. In inaccessible areas, natural depressions or earthen dikes could be lined with plastic or other acceptable liner to serve as temporary storage. Recovered oil/water emulsions will be promptly transported and returned to the pipeline system's available breakout tank, reinjected into the pipeline, delivered to a refinery or recycled through fuel blenders/reclaimers.

Contaminated oily debris will be accumulated in separate dumpsters, containers or lined pits, when possible. Basic separation and segregation of like waste will be done to implement different disposal options.

D. Oil/Water/Debris Separation

Recovered oil/water emulsions will be allowed to separate to the maximum extent possible with the water phase decanted to allow using the maximum capacity of the available vacuum trucks and/or skid tanks, so as not to impede recovery of spilled substance. Recovered oil/water emulsions will be returned to the pipeline system or recycled through fuel blenders/reclaimers. In environmentally sensitive area, the separation process should be completed at an alternate location or at a water treatment facility, when practicable. However, optimum use of containment capacity will take precedence, depending on the availability of equipment and logistics of transporting the equipment.

Some skimmers are equipped with oil/water separators. Because large volume storage may not be as quickly deployed as skimmers, separation may be essential before discharging separators into dracones. Most separation will be performed by vacuum trucks and skid tanks into contained areas, such as the origin or destination facility sites. Oiled debris may be washed with high pressure water just like beaches, pilings, and rip rap.

E. Transportation

Transportation of spilled liquids will be performed by qualified and licensed hazardous material transporters, or vacuum truck operators. Owner maintains a list of qualified and licenses vacuum truck operators. Owner maintains spill response material in trailer mounted spill response units, positioned for pipeline spills with an adequate amount of trucks to transport the trailers. In addition, skid tanks or "Baker" tanks are accessible through contractors who would provide for their transportation to the leak site as requested by Owner Furthermore Owner approved contractors or DCOs would provide additional support as required.

Transportation of spilled liquids will be by vacuum trucks operated by licensed firms only. Owner's staff maintains familiarity with the locations of all boat ramps in its design area. Owner maintains maps depicting the sites of all boat ramps on the coast. The majority of Owner's response material is trailer mounted with an adequate number of trucks to transport the trailers. All Owner owned equipment may be

deployed at a boat launch. Vacuum trucks and skid tanks can loaded on barges at marine loading facilities, if necessary.

F. **Waste Minimization and Disposal**

Depending on the nature and quantity of spilled product, owner may determine that all or part of the recovered oil is reclaimable. This consideration can be cost-effective, but its use is limited by the availability and response time of reclaimers/ recyclers. Recycling should not be used if it will cause significant time delays in the cleanup process.

Oil recovered from impacted aquatic areas will typically contain substantial quantities of water and debris. Excess water, soil, and other estuary materials greatly increase the quantity of waste and its associated costs for transportation, processing, and disposal. To remedy this, different methods can be employed at the cleanup site to separate oiled debris from excess materials which may be returned to the spill area. Oil/water mixtures can be drained from debris through screens, filters, and conveyor systems and collected in temporary containers for further treatment. Oily material (contaminated vegetation, rocks used sorbents, etc.) can be separated from clean materials. The clean material can then be returned to the spill area where restoration activities begin. Not only is this cost effective from an operations perspective, but it also provides an efficient means of returning clean, excavated materials back to the impacted area as a restorative measure.

G. **Wildlife Protection and Rehabilitation**

1. Considerations for Oiled Birds

Millions of birds use coastal areas for breeding and feeling. When spills occur, many birds can become oiled. There are two approaches to water fowl protection and rehabilitation:

- Relocation of birds from spill sites by use of deterrents, and
- Cleaning and rehabilitation of oiled birds.

Owner's initial efforts will include using air horns to scare birds away from oily areas. Other methods may be employed by wildlife experts who are called in when bird impact is expected.

a. Bird Relocation

Bird relocation may be accomplished using a variety of deterrents to encourage birds to avoid areas of spilled oil. Any deterrents to be employed in identified or suspected water fowl habitat areas will only be done with the advice of game wardens and in coordination with wildlife refuge officials.

While the use of bird deterrents may be attempted in all bird concentrations, the overall success rate can be low. Furthermore, scaring techniques may result in some bird mortality. Nonetheless, the drawbacks of scaring techniques are usually more acceptable than allowing bird populations to undergo oil contamination.

Results are likely to be best in winter and at feeding areas. Migrating birds may have a strong tendency to return to a contaminated staging area. If scaring is effective, but alternate habitats are not available, some migrating birds may not survive due to the lack of food or other environmental factors. Decisions

are the most difficult when attempting to deter birds near a breeding colony away from oil. Caution should be used in terms of distance from birds and frequency in which deterrent techniques are applied. Deterrent application is likely to cause panic among nesting birds, which could result in the loss of eggs or young, and continual deterrence near a bird colony may discourage birds from returning to a breeding site. However, oiled birds are usually unable to raise young successfully, and the death of adult birds is more of a threat to seabird populations than the loss of young birds.

The devices and methods associated with wildlife deterrents can be grouped into the following general

methods: visual, auditory, and combinations of visual and auditory. The choice of an appropriate method depends on the species involved, the surrounding environment, and the spill situation. In a practical sense, the choice may be based on what is available and the most logical approach to handling a specific situation. General guideline for selection bird deterrent methods are as follows:

Where water fowl and coastal birds are dominant, use exploders and hazing with aircraft to disperse birds, unless the birds area flightless. Flightless birds (young and molting birds) may need to be herded with boats and/or helicopters.

Where diving birds are dominant, underwater sound (if effective) should probably be used. Some bird species (auklets) are attracted to lights while other species (loons, grebes) appear to be repelled.

The following is a general summary of deterrent methods, which may be utilized by wildlife experts at their discretion, their effectiveness, and their limitations:

Visual Methods

Floating or Stationary Figures: A human effigy has been shown to be an effective method for deterring birds during the daylight hours.

Helium-Filled Balloons: Helium-filled balloons have been used successfully to prevent birds from landing.

Auditory

Propane Cannons and AV-Alarms: Bird density reduction (50-100%) and area extent of effectiveness (150-1,000m) of propane cannons and AV alarms have varied by bird species. The devices have been shown to be effective for only short periods of time, 2 to 3 days maximum. The devices are noted as possible not being effective for rough, open sea conditions.

Bird Scare-A-Way Guns are available through Clean Gulf Associates and consist of muzzles with electronic igniters fueled by 5 gallon LPG bottles which last about two weeks. The guns are located in oil spill areas in an attempt to temporarily relocate bird populations to safer locations while clean-up operations are completed and a safe habitat is restored.

Other Noisemakers: The playback of recorded sounds of alarmed birds has been tested and shown to be effective. Furthermore, its effectiveness has been shown to increase when done in conjunction with detonators. A flashing light, along with a detonation cartridge, were found to be ineffective. Shell crackers ignited from land and boats were tested as effective deterrent methods on two spills in the United States.

Visual and Auditory

Herding or Hazing with Aircraft: This technique is used for flying water fowl or water fowl on the ground that typically fly in response to disturbances. However, herding or hazing with aircraft may cause diving birds to dive into the contaminated areas. Helicopters have been effective in herding flightless birds (young or molting birds).

Herding with Boats: Herding with boats, which is slow and labor intensive, may be effective for flightless water fowl but is ineffective for diving birds. With several boats, birds can be herded overland to inland lakes or boomed areas of lagoons.

Other Methods

Capture and Relocation: Capture and relocation to another areas is an option for small populations of birds of critical sensitivity; however, it is labor intensive and may not be practical in most cases.

Electromagnetic Current: There is some evidence that birds are sensitive to low-intensity, alternating-current electromagnetic fields during nocturnal flights.

Chemical Deterrents: Research is under way on how to manufacture chemicals similar to those that plants use to deter birds and other wildlife. While dyes for release near slicks also have been evaluated, no references have been located on this subject.

b. Cleaning and Rehabilitation

Bird cleaning and rehabilitation programs are necessary to build public support and measure progress for the clean-up operation. Therefore, high priority should be assigned to this endeavor. In some countries, including the United States, migratory water fowl are protected by federal law. Wildlife agencies must be consulted before handling oiled birds. Oiled birds rehabilitation is a complex, crisis-oriented endeavor requiring an experiences

staff with documented management, medical, and technical skills. Special equipment and medical supplies are necessary. Liability coverage is required as well as an understanding of human health and environmental hazards. Volunteers may be willing to collect oiled birds and provide labor for the rehabilitation centers. Detailed training and experienced supervision should be provided for all volunteers.

It is recommended that experts such as the **International Bird Rescue Research Center (510-841-9086), located in Berkeley, California, or Tri-State's Bird Rescue and Research, Inc. (302-737-9543), in Newark, Delaware**, be contracted to supervise oiled bird rehabilitation centers.

A mobile Water fowl Rehabilitation Station is available from Clean Gulf Associates. The CGA Water fowl Rehabilitation Station is a movable on-site centralized bird cleaning station and model confined for rehabilitation and protection of

oiled water fowl. This station is designed to complement a larger, more permanent facility; however, if a small-scale oiled bird problem arose, the CGA building could become the primary facility for rather lengthy use. Only massive spills impacting a vast shoreline are likely to require mobilization of these expanded facilities.

(b) (7)(F), (b) (3) [redacted]. A stockpile of staple inventory is provided by CGA to expedite getting the rehabilitation station set up while others are making the additional recommended local purchases of supplies.

2. Considerations for Other Oiled Aquatic Animals

Turtles, muskrats, alligators, and other aquatic animals may be coated with oil if spills occur. Only skilled persons with appropriate training in animal handling should attempt to capture or clean aquatic animals that are coated with oil. These animals can kill or inflict serious injury to humans. These animals are likely to be under stress. Hence, improper handling could increase their mortality rate.

Responsibility for the capture, transport, cleaning, rehabilitation, and release of oiled aquatic animals rests with the responsible government agencies. The procedures to followed during an actual oil spill incident will be subject to determination and modification at the discretion of the responsible government agencies. They will however, consist of the following basic components.

a. If the responsible government agencies decide to conduct capture operations, they will be carried out by teams of **USFWS personnel**. The aforementioned agencies will also direct and participate in onshore capture operations; however, during onshore capture operations they may be accompanied by non-agency personnel. In either case, actual capture operations

(i.e. the handling of animals) will be carried out by experienced agency personnel so as to ensure compliance with all applicable federal and state laws and regulations, as well as the safety of the animals and those engaged in capture operations.

b. It may be necessary to transport animals a number of times during the course of response operations. As with all procedures involving animal care, transport operations will be supervised by experienced personnel to ensure that operations are conducted in a fashion which minimizes the amount of stress experienced by the animals. Vehicles, aircraft, and/or vessels can be utilized for transport of operations. The choice of transportation mode will depend on the availability of the mode, access to the capture site, access to the collection station, distance to be travelled, access to a cleaning/rehabilitation center, the health of the animals, and cost.

c. The cleaning and rehabilitation will be supervised and, most likely, conducted by personnel from the responsible government agencies and/or trained volunteers. For each animal, sedation, washing, rinsing, and sedation reversal activities may be necessary. A cleaning team will generally consist of four people (i.e., one person to restrain the animal, two people to wash and rinse the animal, and one animal care specialist). In addition, a veterinarian will be present to examine animals upon their arrival to the center, administer drugs and medicine, monitor cleaning operations, and observe the animals in the hours following cleaning.

d. Cleaned animals will be held for rehabilitation if, after cleaning, they cannot be released to a temporary holding facility or their natural environment. The goal of rehabilitation will be to return fully recovered, healthy animal to their natural environment as quickly as possible. During rehabilitation, procedures must be carried out in a way which minimizes stress and avoids, to the maximum extent

possible, the acclimation or "imprinting" of animals to human being. If a juvenile is found during capture operations and cannot re reunited with its mother, it will be considered orphaned. Orphaned juveniles will require longer term care and more specialized handling. When caring for a juvenile, the objective will be to mimic the animal's natural environment and behavior as closely as possible.

e. Animals will be ready for release to their natural environment as soon as the normal physiological state is restored. When an animal appears ready for release, it will be examined by the veterinarian. If the veterinarian concurs that the animal is ready for release, the responsible government agencies will be notified so that a release "team" can be assembled. Prior to release, an identification tag will be attached to the animal unless it is already wearing one. Also each animal's file card will be consulted to determine whether the noted area of capture is "free" of oil. If so, the animal will be released at or near the capture point. Animals captured from sites which are still contaminated will be help until these sites are cleaned, or relocated to a clean site.

In addition, the following agencies/individuals may be notified should wildlife clean-up become necessary:

U.S. Fish & Wildlife

Columbia, Missouri

(314) 876-1911 - Dr. Charbonneau

US Fish & Wildlife

Rock Island, Il

(309) 793-5800

PHMSA Sequence Number 100

Section 15 Highly Sensitive Areas

CFR §194.105; 194.107(c)

In This Section

PHMSA Sequence Number 100

Protection Plans for Environmentally Sensitive Areas

Region Seven

2.1 PROTECTION PLANS FOR ENVIRONMENTALLY SENSITIVE AREAS

A. Patoka to Corsicana 20" Crude

(Legend to Environmentally Sensitive Areas Map - ESA-1-MO)

1. Public Water Supply Intakes

(b) (7)(F), (b) (3)

[redacted]

2. Outstanding State/National Resource Waters

National Resource Waters

(NRW-1) Current River

State Resource Waters

(SRW-1) Big Creek

(SRW-2) Little Black River

3. National Waterfowl

[redacted]

No existing or proposed National Waterfowl Refuge areas are within the Environmentally Sensitive Area.

4. Recreational Lakes

RIPLEY COUNTY

(F-16) Fourche Lake

CARTER COUNTY

No Recreational Lakes within the Environmentally Sensitive Area.

WAYNE COUNTY

(W-6) Lake Wappapello

(S-55) Sunrise Lake

(M-51) Mountain Lake

MADISON COUNTY

(W-32) Lake Woaplanne

(B-68) Brown Lake

BOLLINGER COUNTY

No Recreational Lakes within the Environmentally Sensitive Area.

PERRY COUNTY

(K-15) Kah-Tan-Da Lake

(P-42) Perco Lake

(P-43) Parker Lake

(P-15) Perry County Community Lake - Located west of Perryville off Highway "T". Three

hundred (300) acres recreational site and one hundred one (101) surface acres lake. Sport fishing permitted.

5. State Parks

RIPLEY COUNTY

(D-12) Dear Leap Recreational Area - Located northwest of Doniphan off Highway "Y" within the Mark Twain National Forest. Sport fishing is permitted along the Current River.

(F-11) Float Camp Recreational Area - Located northwest of Doniphan off Highway "Y" within the Mark Twain National Forest. Sport fishing is permitted along the Current River.

(G-18) Greenville Ford Access Recreational Area - Located northeast of Doniphan on Highway "K" within state forest lands. Sport fishing is permitted along the Little Black River.

(M-52) Mud Puppy Natural History Area - Located six (6) miles east of Doniphan on Highway 160 and four (4) miles north on Highway "BB". One thousand two hundred ninety-eight (1,298) acres recreational area. Hunting and sport fishing is permitted along the Little Black River.

(L-22) Little Black State Forest - Located north of Doniphan on Highway 21. Two thousand three hundred and twenty-two (2,322) acres recreational area. Hunting permitted.

CARTER COUNTY

(P-21) Pinewood Lake National Forest Recreational Area - Located southwest of Ellsinoro off Highway 60 within the Mark Twain National Forest. Twenty-five (25) acres recreation area. Sport fishing is permitted.

WAYNE COUNTY

(SP-1) Samuel A. Baker State Park - Located three (3) miles north of Patterson on Highway 143 in the St. Francois Mountains. This is a wilderness area (Missouri Natural Area). Big Creek, a State Water Resource, and the St. Francis River border the park. Camping, backpacking, hiking, swimming, boating and sport fishing are permitted.

(C-40) Coldwater State Park - Located north of Coldwater off Highway 67 and east on Highway "M" and extending east into Bollinger County. Seven thousand two hundred fifty-three (7,253) acres within Coldwater State Forest. Hunting is permitted.

(G-14) Groves Mountain State Park - Located north of Patterson on Highway "N" and north off Highway 143 and extends into Iron County. Three thousand six hundred seventy-nine (3,679) acres. Hunting is permitted.

(H-25) Hiram Tract Recreational Area - Located east of Silva near the junction of Highway 34 and Highway "C". Two hundred forty (240) acres. Hunting is permitted.

(M-19) Markham Springs National Forest Recreational Area - Located west of

Williamsville off Highway 49 within the Mark Twain National Forest. Sport fishing is permitted along the Black River.

(M-51) Mountain Lake Tract - Located southwest of Patterson on Highway "B". Nine hundred nine (909) acres. Hunting is permitted.

(S-31) Silva Tract - Located east of Silva off Highway 67. Two hundred thirty-six (236) acres. Hunting is permitted.

MADISON COUNTY

(A-8) Amidon Memorial - Located eight and one-half (3-1/2) miles east of Fredericktown off Highway 72 and extends into Bollinger County. Six hundred fifty-two (652) acres. Sport fishing along the Castor River and hunting is permitted.

(D-32) Duchesne Access - Located east of Fredericktown off Highway "J". Four (4) acres. Sport fishing along the Castor River is permitted.

BOLLINGER COUNTY

(L-31) Little Whitewater - Located northwest of Patton off Highway "HH" within the state forest. Eighty (80) acres. Hunting is permitted.

PERRY COUNTY

(MNA-2) Ball Mill Resurgence - Located north of Perryville off Highway "V". Twenty (20) acres. Nature study area.

6. Missouri Wetlands

No existing Wetlands are within the Environmentally Sensitive Area.

7. Cool and Cold Water Sport Fishing Streams

a. **Cool Water Sports Fishing Streams**

RIPLEY COUNTY

(SFS-1) Current River

(SFS-2) Logan Creek

(SFS-3) Little Black River

(SFS-4) Fourche Creek

CARTER COUNTY

WAYNE COUNTY

(SFS-6) Black River

(SFS-7) Big Creek

(SFS-8) St. Francis River

MADISON COUNTY

(SFS-9) Twelve Mile Creek

(SFS-10) Castor River

PERRY COUNTY

(SFS-11) Whitewater River

(SFS-12) South Fork Saline Creek

MADISON COUNTY

(SFS-9) Twelve Mile Creek

(SFS-10) Castor River

PERRY COUNTY

(SFS-11) Whitewater River

(SFS-12) South Fork Saline Creek

RIPLEY COUNTY

(SFS-13) Hurricane Creek

(SFS-14) Mill Creek

(SFS-1) Current River

(SFS-15) South Fork Flat Creek

(SFS-15) North Fork Flat Creek

PERRY COUNTY

(SFS-16) Blue Spring Branch

8. Losing Streams (30% or more to Ground Water)

WAYNE COUNTY

(LS-1) South Prong Little Black River

(LS-2) Otter Creek

(LS-3) Big Brushy Creek

PERRY COUNTY

(LS-4) South Fork Saline Creek

9. Missouri Natural Areas

WAYNE COUNTY

(MNA-1) Mudlick Mountain Natural Area - Located three (3) miles north of Patterson on Highway 143. A one thousand three hundred seventy (1,370) acre area within Samuel A. Baker State Park; part of Section 16, 17, 18, 19, 20 and 21, T-30-N, R-5-E.

Designated February 10, 1981 - Natural Features

Mudlick Mountain Natural Area includes one of the most significant remaining old growth forest of the St. Francois Mountain Section in the Ozark Natural Division. The eastern slope is heavily forested and strewn with igneous boulders. Much of this slope features old growth white oak-black oak forest with a well-developed understory of flowering dogwood. The northern end of Mudlick Mountain is dissected by Big Creek (Stare Resource Waters), forming one of Missouri's largest and deepest canyon like gorges with shutins, igneous glades, igneous talus slopes and sheer igneous bluffs. The rare yellowwood (Cladrastic Lutea) occurs on the rich talus slopes. Mudlick Mountain is one of the highest igneous knobs in Missouri and is subject to the impacts of windstorms, lighting, snow and ice.

PERRY COUNTY

(MNA-2) Ball Mill Resurgence Natural Area - A nineteen (19) acre area about six (6) miles north of Perryville in Section 23 and SW 1/4 Section 24, T-36-N, R-10-E.

Designated August 23, 1979 - Natural Features

The geological natural area contains a sinkhole that normally acts as a water drain, but backs up as a spring after heavy rains. The resurgence acts as a natural rock tumbler which smooths and rounds angular rock fragments that fall into it. The area is forested and also contains several small, dry sinkholes. It is in the Mississippi River Section of the Ozark Border Natural Division. Collecting of geological specimens is prohibited.

Ball Mill Resurgence is owned by the L-A-D Foundation and managed by the Missouri Department of Conservation.

10. Miscellaneous Water Crossing

RIPLEY COUNTY

(MWC-1) McKinney Creek

(MWC-2) Price Creek

(MWC-3) Mulberry Creek

(MWC-4) Lingo Creek

(MWC-5) Brian Creek

(MWC-6) Bills Creek

(MWC-7) South Fork Beaverdam Creek

(MWC-10) Simpson Creek (Dry-Draws)

CARTER COUNTY

(MWC-8) North Fork Beaverdam Creek

(MWC-9) Tenmile Creek

WAYNE COUNTY

(MWC-11) Big Lake Creek

(MWC-12) Little Lake Creek

(MWC-13) Hubble Creek

(MWC-14) Bennett Creek

(MWC-15) Hunter Creek

(MWC-16) Cedar Creek

PERRY COUNTY

(MWC-23) Neece Branch

(MWC-24) Nations Creek

(MWC-25) Falls Branch

(MWC-26) Bois Brule Creek

(MWC-27) Canal

(MWC-28) Canal

(MWC-29) Mississippi River

MADISON COUNTY

(MWC-17) Greasy Creek

(MWC-18) Henderson Creek

(MWC-19) Cape Creek

BOLLINGER COUNTY

(MWC-20) Combs Creek

(MWC-21) Blue Creek

(MWC-22) Conrad Creek

B. Resources References (Environmentally Sensitive Areas)

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Census of Missouri Public Water System

Missouri Water Quality Standards (10 CSR 20-7.031 Table G & H)

Directory of Missouri Natural Areas

Water Pollution Control Program

MAP - "Outdoor Missouri"

MISSOURI STATE EMERGENCY MANAGEMENT AGENCY

Projected Earthquake Intensities (High Risk Seismic Zone)

MISSOURI DEPARTMENT OF HIGHWAY'S

Missouri Official Highway Maps

MISSOURI DEPARTMENT OF CONSERVATION

Missouri Wetlands

UNITED STATES DEPARTMENT OF INTERIOR\FISH AND WILDLIFE SERVICES

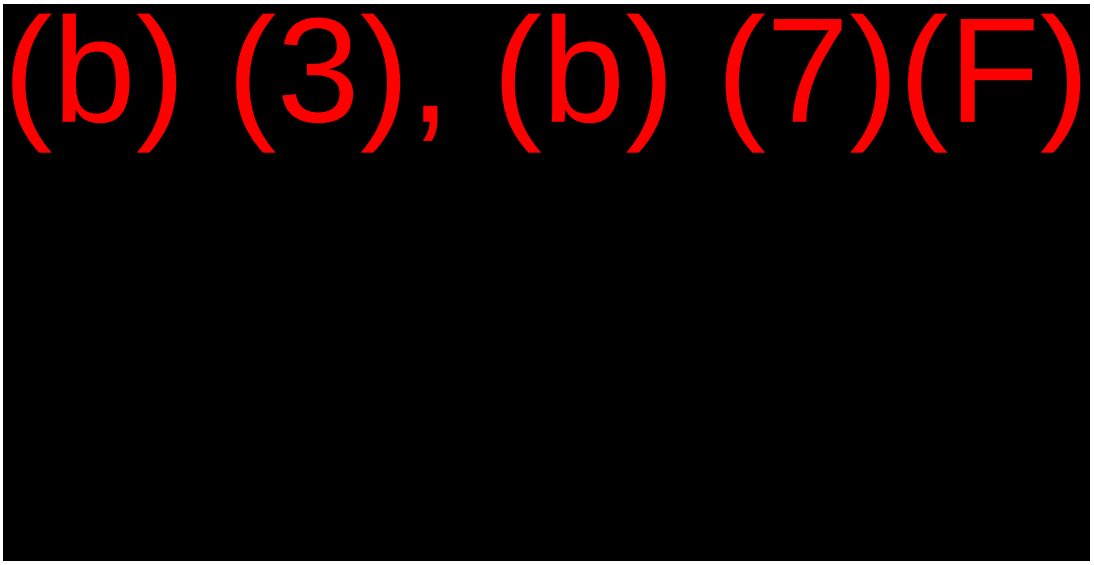
National Wildlife Refuges

Fourche Creek **(SFS-4)**

Fourche Creek is classified as a cool water Sports Fishing Stream located within the Environmentally Sensitive Areas, approximately 1.75 miles west of (b) (3), (b) (7)(F) Ripley County. This creek is not considered to be at risk due to it's

geographical location from the pipeline and the anticipated direction of flow in the event of an emergency.

Hurricane Creek **(SFS-13)**



HURRICANE CREEK (b) (3), (b) (7)(F)

CP1: 1.2 miles downstream, accessible from gravel road. Approximately 1.0 mile north of SH FF and 2.8 miles south of SH A.

CP2: 2.4 miles downstream, accessible from gravel road 0.5 mile south off of SH A. CP is approximately 3.0 miles north from State of Arkansas.

CP3: 3.2 miles downstream, accessible from SH A. CP is approximately 3.0 miles north from State of Arkansas and 6.5 miles south from town of Doniphan.

CP4: (CURRENT RIVER - CP3)

7.7 miles downstream, accessible from gravel road 1.5 miles southwest off HWY U.

Mill Creek **(SFS-14)**

Mill Creek is classified as a Cold Water Sports Fishing Stream located within the Environmentally Sensitive Area, crossing Owner's pipeline (b) (3), (b) (7)(F) Ripley County. **SEE NARRATIVE FOR** " Hurricane Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

MILL CREEK (M(b) (3), (b) (7)(F)

CP1: 0.6 mile downstream, accessible from gravel road 1.3 miles southwest off from off of SH A. CP is approximately 4.2 miles north from State of Arkansas and 4.25 miles south from town of Doniphan.

CP2: 1.7 miles downstream, accessible from SH A. CP is approximately 4.5 miles north from State of Arkansas and 4.5 miles south from town of Doniphan.

CP3: (CURRENT RIVER - CP3)

7.7 miles downstream, accessible from gravel road 1.5 miles southwest off HWY U.

CP4: (CURRENT RIVER - CP4)

9.5 miles downstream, accessible from gravel road 0.5 miles south off HWY U. CP is approximately 5.0 miles south from town of Doniphan.

McKinney Creek **(MWC-1)**

McKinney Creek is classified as a Miscellaneous Water Crossing and within the Environmentally Sensitive Area crossing Owner's pipeline at (b) (3), (b) (7)(F) in Ripley County. **SEE NARRATIVE FOR** " Hurricane Creek". Emergency response personnel and equipment can b e accessed from Doniphan Station.

McKINNEY CREEK ((b) (3), (b) (7)(F))

CP1: 0.6 miles downstream, accessible from SH A. CP is approximately 5.2 miles north from State of Arkansas and 3.5 miles south from town of Doniphan.

CP2: (CURRENT RIVER - CP3)

7.7 miles downstream, accessible from gravel road 1.5 miles southwest off HWY U.

CP3: (CURRENT RIVER - CP4)

9.5 miles downstream, accessible from gravel road 0.5 miles south off HWY U. CP is approximately 5.0 miles south from town of Doniphan.

Price Creek **(MWC-2)**

Price Creek is classified as a Miscellaneous Water Crossing and within the Environmentally Sensitive Area crossing Owner's (b) (3), (b) (7)(F) County. **SEE NARRATIVE FOR** "Hurricane Creek ". Emergency response personnel and equipment can be accessed from Doniphan Station.

Fourche Lake **(F-16)**

Fourche Lake is classified as a Recreational Lake located approximately 2.92 miles west of (b) (3), (b) (7)(F). SWSE Section 35, T-23-N, R-1-E, in Ripely County. This Lake is not considered to be at risk due to it's geographical location from the pipeline and the anticipated direction of flow in the event of an emergency.

Mulberry Creek **(MWC-3)**

Mulberry Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area crossing Owner's pipeline at (b) (3), (b) (7)(F) in Ripley County. **SEE NARRATIVE FOR** " Hurricane Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

MULBERRY CREEK (M[redacted])

CP1: 0.6 miles downstream, accessible from SH A. CP is approximately 5.7 miles north from State of Arkansas and 3.0 miles south from town of Doniphan.

CP2: (CURRENT RIVER - CP3)

7.7 miles downstream, accessible from gravel road 1.5 miles southwest off HWY U.

CP3: (CURRENT RIVER - CP4)

9.5 miles downstream, accessible from gravel road 0.5 miles south off HWY U. CP is approximately 5.0 miles south from town of Doniphan.

Lingo Creek **(MWC-4)**

Lingo Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area crossing Owner's pipeline at [redacted]2 in Ripley County. **SEE NARRATIVE FOR** " Hurricane Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

Briar Creek **(MWC-5)**

Briar Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area crossing Owner's pipeline at [redacted]4 in Ripley County. **SEE NARRATIVE FOR** " Hurricane Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

BRIAR CREEK ([redacted])

CP1: 0.6 miles downstream, accessible from SH A. CP is approximately 8.0 miles north from State of Arkansas and 1.0 miles south from town of Doniphan.

CP2: (CURRENT RIVER - CP2)

3.5 miles downstream, accessible from gravel road 2.0 miles west off HWY U and 3.0 miles south from town of Doniphan.

CP3: (CURRENT RIVER - CP3)

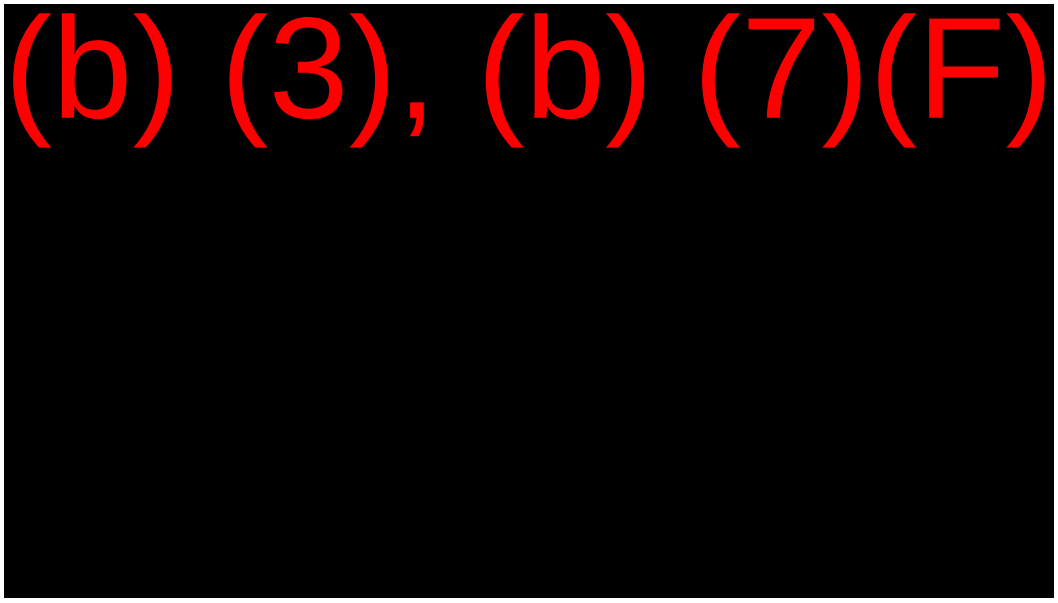
7.7 miles downstream, accessible from gravel road 1.5 miles southwest off HWY U.

CP4: (CURRENT RIVER - CP4)

9.5 miles downstream, accessible from gravel road 0.5 miles south off HWY U. CP is approximately 5.0 miles south from town of Doniphan.

Current River (National Scenic Riverway) **(NRW-1)**

Current River is classified as a National Resource Water and Cold/Cool Water Sports Fishing Stream located within the Environmentally Sensitive Area, crossing Owner's pipeline at [redacted] n Ripley County. Individual



CURRENT RIVER (b) (3), (b) (7)(F) 7)

CP1: 0.75 miles downstream, accessible from SH 21. CP is in town of Doniphan.

CP2: 3.5 miles downstream, accessible from gravel road 2.0 miles west off HWY U and 3.0 miles south from town of Doniphan.

CP3: 7.7 miles downstream, accessible from gravel road 1.5 miles southwest off HWY U.

CP4: 9.5 miles downstream, accessible from gravel road 0.5 miles south off HWY U. CP is approximately 5.0 miles south from town of Doniphan.

Float Camp Recreational Area **(F-11)**

Float Camp Recreational Area is classified as State Parks located 4.54 miles northeast of Doniphan off Highway "Y". Approximately 2.37 miles west of Owner's pipeline at (b) (3), (b) (7)(F), within the Mark Twain National Forest, NE Section 8, T-23-N, R-2-E, in Ripley County. Sport fishing is permitted along the Current River. This recreation area is not considered to be at risk due its geographical location from the pipeline and the anticipated direction of flow in the event of an emergency. (b) (3), (b) (7)(F)

Bills Creek **(MWC-6)**

Bills Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area crossing (b) (3), (b) (7)(F) Ripley County. Although individual valving at this creek crossing is nonexistent, an operations control center at Houston, Texas can be used to remotely (b) (3), (b) (7)(F) (b) (3), (b) (7)(F) in the event of an emergency. Furthermore, a block

(b) (3), (b) (7)(F) (Curren River) could be closed manually by response personnel to further isolate the volume of a potential leak. Emergency response personnel and equipment can be accessed from(b) (3), (b) (7)(F).

BILLS CREEK (b) (3), (b) (7)(F)

CP1: 1.0 mile downstream, accessible from HWY Y.Approximately 1.2 miles north off town of Doniphan.

CP2: (CURRENT RIVER - CP1)

0.75 miles downstream, accessible from SH 21. CP is in town of Doniphan.

CP3: (CURRENT RIVER - CP2)

3.5 miles downstream, accessible from gravel road 2.0 miles west off HWY U and 3.0 miles south from town of Doniphan.

CP4: (CURRENT RIVER - CP3)

7.7 miles downstream, accessible from gravel road 1.5 miles southwest off HWY U.

CP5: (CURRENT RIVER - CP4)

9.5 miles downstream, accessible from gravel road 0.5 miles south off HWY U. CP is approximately 5.0 miles south from town of Doniphan.

Dear Leap Recreational Area **(D-12)**

Deer Leap Recreational Area is classified as State Parks located 5.43 miles northwest of Doniphan off Highway "Y". Approximately 3.71 miles west of (b) (3), (b) (7)(F), within the Mark Twain National Forest, SW Section 5, T-23-N, R-2-E, in Ripley County. Sport fishing is permitted along the Current River. This recreation area is not considered to be at risk due its geographical

location from the pipeline and the anticipated direction of flow in the event of an emergency. (b) (3), (b) (7)(F)

Simpson Creek **(MWC-10)**

Simpson Creek is classified as a Miscellaneous Water Crossing as it is not listed in MDNR's Environmentally Sensitive List located (b) (3), (b) (7)(F) in Ripley County. These three crossings are primarily dry-draws to the Simpson Creek, which is located approximately 1 mile from Owner's pipeline. **SEE NARRATIVE FOR** "Bills Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

SIMPSON CREEK ((b) (3), (b) (7)(F)

CP1: 1.5 mile downstream, accessible from HWY Y.Approximately 2.3 miles north off town of Doniphan.

CP2: (CURRENT RIVER - CP1)

0.75 miles downstream, accessible from SH 21. CP is in town of Doniphan.

CP3: (CURRENT RIVER - CP2)

3.5 miles downstream, accessible from gravel road 2.0 miles west off HWY U and 3.0 miles south from town of Doniphan.

CP4: (CURRENT RIVER - CP3)

7.7 miles downstream, accessible from gravel road 1.5 miles southwest off HWY U.

CP5: (CURRENT RIVER - CP4)

9.5 miles downstream, accessible from gravel road 0.5 miles south off HWY U. CP is approximately 5.0 miles south from town of Doniphan.

Logan Creek **(SFS-2)**

(b) (3), (b) (7)(F)

LOGAN CREEK ((b) (3), (b) (7)(F)

CP1: 0.9 mile downstream, accessible from US HWY 21.Approximately 3.0 miles south from Doniphan Station.

CP2: 3.2 miles downstream, accessible from Asphalt Road. CP is approximately 1.2 miles north off HWY 160 and 3.7 miles south off HWY K.

CP3: 5.0 miles downstream, accessible from SH 160. CP is approximately 2.5 miles east from town of Doniphan.

Flat Creek (South and North Fork) **(SFS-15)**

Flat Creek is classified as a Cold Water Sports Fishing Streams located within the Environmentally Sensitive Area, South Fork crossing (b) (3), (b) (7)(F) County. At Flat

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(b) (3), (b) (7)(F)

SOUTH FORK OF FLAT CREEK ((b) (3), (b) (7)(F))

CP1: 0.35 mile downstream, accessible from SH 21.Approximately 1.0 and 1.5 miles south from Doniphan Station.

CP2: 1.2 mile downstream, accessible from HWY K.Approximately 1.0 mile east off SH 21.

CP3: 2.0 miles downstream, accessible from HWY K.Approximately 2.0 miles east off SH 21.

CP4: (LITTLE BLACK RIVER - CP2)

8.2 miles downstream, accessible from gravel road off HWY 88. CP is on Little Black River.

At Flat Creek (North Fork), although individual valving at this creek crossing is nonexistent, an (b) (3), (b) (7)(F)

(b) (3), (b) (7)(F)

PHMSA Sequence Number 100

[redacted]

NORTH FORK OF FLAT CREEK ([redacted]

CP1: 2.0 miles downstream, accessible from HWY K.Approximately 2.0 miles east off SH 21.

CP2: (LITTLE BLACK RIVER - CP2)

8.2 miles downstream, accessible from gravel road off HWY 88. CP is on Little Black River.

Little Black River - (South & North Prong)(SRW-2)

Little Black River South Prong is classified as a State Resources Water, Cool Water Sports Fishing Stream located within the Environmentally Sensitive Area, [redacted] County. **SEE NARRATIVE FOR** "Flat Creek North & South Fork". Emergency response personnel and equipment can be accessed from Doniphan Station.

SOUTH PRONG LITTLE BLACK RIVER [redacted]

CP1: 2.5 miles downstream, accessible off HWY K. Approximately 8.5 miles northeast off Doniphan Station on HWY K.

CP2: 8.2 miles downstream, accessible from gravel road off HWY 88. CP is on Little Black River.

NORTH PRONG LITTLE BLACK RIVER [redacted]

CP1: (SOUTH PRONG LITTLE BLACK RIVER - CP1)

2.5 miles downstream, accessible off HWY K. Approximately 8.5 miles northeast off Doniphan Station on HWY K.

CP2: (SOUTH PRONG LITTLE BLACK RIVER - CP2)

8.2 miles downstream, accessible from gravel road off HWY 88. CP is on Little Black River.

Greenville Ford Access Recreational Area **(G-18)**

Greenville Ford Access Recreational Area is classified as a State Park located 12.15 miles northeast of Doniphan on Highway "K". Approximately 2.45 miles west of Owner's pipeline at (b) (3), (b) (7)(F), within state forest lands, SW Section 10, T-24-N, R-3-E, in Ripley County. Sport fishing is permitted along the Little Black River. This recreation area may be at risk due its geographical location and the anticipated direction of flow should a release enter the Little Black River, via the South and North Black River Prongs which crosses the Owner pipeline. **SEE NARRATIVE FOR** "Flat Creek North Fork". Emergency response personnel and equipment can be accessed from Doniphan Station.

Mud Puppy Natural History Area **(M-52)**

Mud Puppy Natural History Area is classified as a State Park located 6.00 miles east of Doniphan on Highway 160 and 4.00 miles north on Highway "BB". Approximately 4.75 miles east of Owner's pipeline at (b) (3), (b) (7)(F). Twelve Hundred and Ninety-Eight (1,298) acres recreational area, in the SW Section 24, T-24-N, R-3-E, in Ripley County. Hunting and sport fishing is permitted along the Little Black River. **SEE NARRATIVE FOR** "Flat Creek North Fork". Emergency response personnel and equipment can be accessed from Doniphan Station.

Little Black State Forest **(L-22)**

(b) (3), (b) (7)(F) . The

State Forest occupies 2,322 acres. Hunting permitted. This recreation area is considered to be at risk due its geographical location from the pipeline and the anticipated direction of flow in the event of an emergency. Emergency response personnel and equipment can be accessed from Doniphan Station.

Beaverdam Creek South Prong **(MWC-7)**

Beaverdam Creek is classified as a miscellaneous stream crossing located in the Environmentally Sensitive Area, crossing Owner's (b) (3), (b) (7)(F) in Ripley County. **SEE NARRATIVE FOR** "Flat Creek North Fork". Emergency response personnel and equipment can be accessed from Doniphan Station.

SOUTH PRONG BEAVERDAM CREEK ((b) (3), (b) (7)(F))

CP1: 0.8 miles downstream, accessible off HWY K.
Approximately 1.5 miles south from Carter County, Missouri.

North Fork Beavedam Creek **(MWC-8)**

North Fork Beavedam Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area crossing (b) (3), (b) (7)(F) 6 in Carter County. **SEE NARRATIVE FOR** "Flat Creek North Fork". Emergency response personnel and equipment can be accessed from Doniphan Station.

(b) (3), (b) (7)(F)

CP1: 0.8 miles downstream, accessible from HWY U.
Approximately 0.1 mile north from Ripley County, Missouri.

Tenmile Creek **(MWC-9)**

Tenmile Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline (b) (3), (b) (7)(F) in Carter County. **SEE NARRATIVE FOR** "Flat Creek North Fork". Emergency response personnel and equipment can be accessed from Doniphan Station.

TENMILE CREEK (b) (3), (b) (7)(F)

CP1: 3.2 miles downstream, accessible from SH B. Approximately 2.4 miles south off US HWY 60 and 7.5 miles southeast from town of Elsinore.

CP2: 5.8 miles downstream, accessible from gravel road off US HWY 60. Approximately 2.2 miles southwest off US HWY 60 and 12.2 miles southeast from town of Elsinore (Butler County).

CP3: 12.2 miles downstream, accessible from road 1.3 miles off HWY PP. Southeast from town of Elsinore (Butler County).

Hollow Cane Creek South and North Fork(SFS-5)

Hollow Cane Creek is classified as a Cool Water Sports Fishing Stream located within the Environmentally Sensitive Area, (b) (3), (b) (7)(F) Carter County. **SEE NARRATIVE FOR** "Flat Creek North Fork". (b) (3), (b) (7)(F)

SOUTH FORK HALLOW CANE CREEK (b) (3), (b) (7)(F)

CP1: 2.5 miles downstream, accessible from road 3.0 miles east off HWY DD. In Butler Co. and 6.0 miles east off town of Elsinore.

CP2: 3.0 miles downstream, accessible from road 5.0 miles east off HWY A. In Butler Co. and 6.0 miles east off town of Elsinore.

CP3: 6.0 miles downstream, accessible from road 6.0 miles east off HWY DD. In Butler Co. and 9.0 miles east off town of Elsinore.

CP4: 7.0 miles downstream, accessible from road 7.0 miles east off HWY DD. In Butler Co. and 10.0 miles east off town of Elsinore.

NORTH FORK HALLOW CANE CREEK (b) (3), (b) (7)(F) [redacted]

CP1: (SOUTH FORK HALLOW CANE CREEK - CP2)

3.0 miles downstream, accessible from road 5.0 miles east off HWY A. In Butler Co. and 6.0 miles east off town of Elsinore.

CP2: (SOUTH FORK HALLOW CANE CREEK - CP3)

6.0 miles downstream, accessible from road 6.0 miles east off HWY DD. In Butler Co. and 9.0 miles east off town of Elsinore.

CP3: (SOUTH FORK HALLOW CANE CREEK - CP4)

7.0 miles downstream, accessible from road 7.0 miles east off HWY DD. In Butler Co. and 10.0 miles east off town of Elsinore.

Big Brushy Creek **(LS-3)**

Big Brushy Creek is classified as a Losing Stream located within the Environmentally Sensitive Area, crossing Owner's pipeline at (b) (3), (b) (7)(F) in Wayne County. **SEE NARRATIVE FOR** "Flat Creek North Fork". Emergency response personnel and equipment can be accessed from Doniphan Station.

BRUSHY CREEK (b) (3), (b) (7)(F)

CP1: 1.5 miles downstream, accessible from gravel road 0.1 miles south off SH 49. Approximately 7.0 miles east from town of Elsinore and 2.0 miles west from the Black River.

CP2: 2.7 miles downstream, accessible from gravel road 0.2 miles south off SH A. Approximately 8.3 miles east from town of Elsinore and 0.5 mile west from the Black River.

CP3: (BLACK RIVER - CP2)

6.8 miles downstream, accessible from gravel road 1.0 mile south from town of Williamsville and SH 49.

CP4: (BLACK RIVER - CP3)

11.1 mile downstream, accessible from gravel road off HWY JJ. Approximately 3.0 miles southwest from SH 67.

CP5: (BLACK RIVER - CP4)

13.2 miles downstream, accessible from SH 67. Approximately 9.0 miles southeast from town of Williamsville.

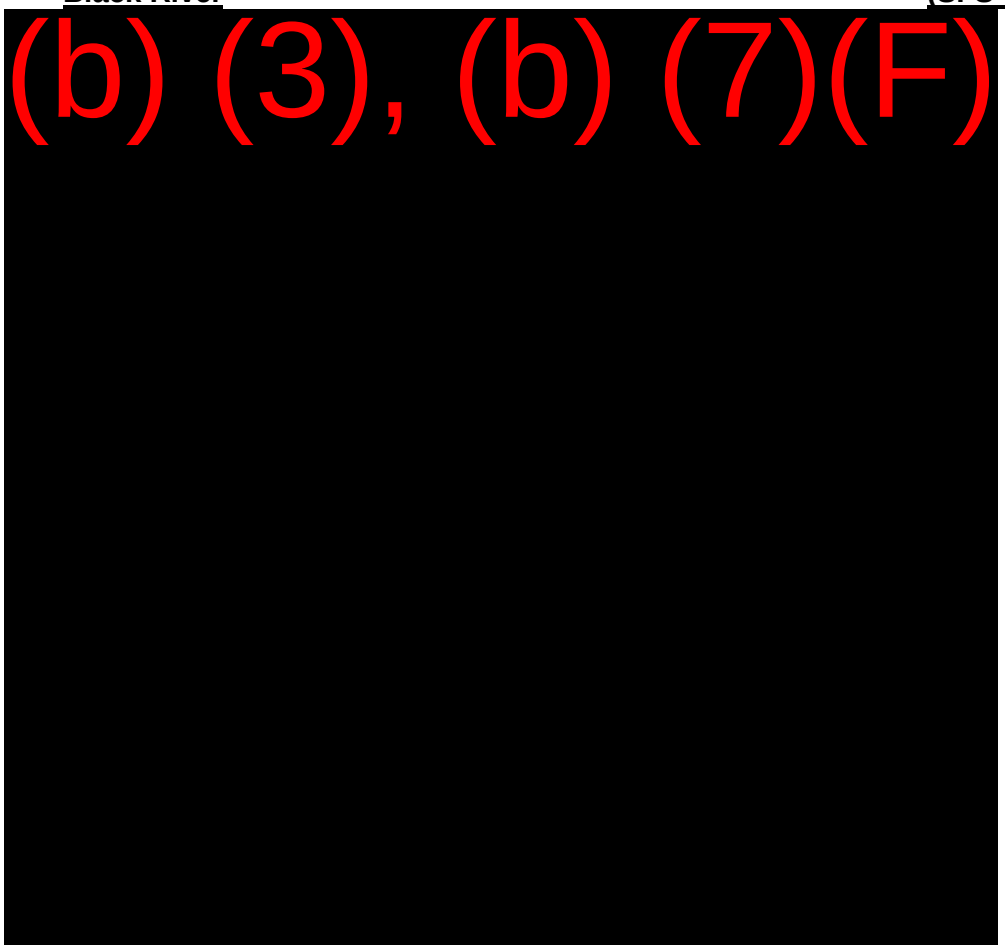
Markham Springs National Forest Recreational Area **(M-19)**

Markham Springs National Forest Recreational Area is classified as a State ark located 3.52 miles west of Williamsville off Highway 49. Approximately 1.66 miles east of (b) (3), (b) (7)(F) 0, within the Mark Twain National Forest, NE Section 22, T-27-N, R-4-E, in Wayne County. Sport fishing is permitted along the Black River. This recreation area may be at risk due its geographical location and the anticipated direction of flow should a release enter th (b) (3), (b) (7)(F) nature trail crosses the pipeline at

(b) (3), (b) (7)(F)

SEE NARRATIVE FOR "Flat Creek North Fork". Emergency response personnel and equipment can be accessed from Doniphan Station.

Black River **(SFS-6)**



BLACK RIVER (b) (3), (b) (7)(F)

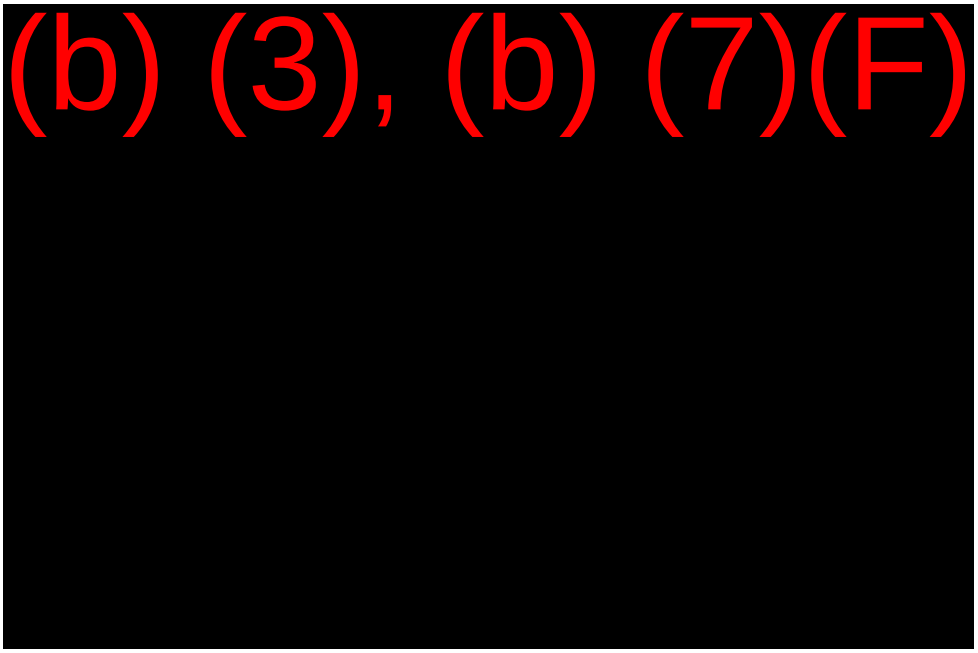
CP1: 3.3 miles downstream, accessible from SH 49. Approximately 7.5 miles southeast from town of Mill Spring and 3.0 miles west from town of Williamsville.

CP2: 6.8 miles downstream, accessible from gravel road 1.0 mile south from town of Williamsville and SH 49.

CP3: 11.1 mile downstream, accessible from gravel road off HWY JJ. Approximately 3.0 miles southwest from SH 67.

CP4: 13.2 miles downstream, accessible from SH 67. Approximately 9.0 miles southeast from town of Williamsville.

Otter Creek **(LS-2)**



OTTER CREEK (b) (3), (b) (7)(F)

CP1: 1.4 miles downstream, accessible by gravel road off HWY V. Approximately 6.0 miles southwest from "Wappapello Wildlife Management Area".

CP2: 2.0 miles downstream, accessible by gravel road off HWY V. Approximately 5.0 miles southwest from "Wappapello Wildlife Management Area".

CP3: 4.0 miles downstream, accessible by HWY A. Approximately 4.5 miles southwest off SH 49 and 5.0 west from "Wappapello Wildlife Management Area".

CP4: 6.5 miles downstream, accessible by gravel road 3.0 miles south off HWY A. Approximately 2.5 miles west from "Wappapello Wildlife Management Area".

Big Lake Creek **(MWC-11)**

Big Lake Creek is classified as a Miscellaneous Water Crossing located in the Environmentally Sensitive Area crossing Owner's Pipeline at (b) (3), (b) (7)(F) 4 in Wayne County. **SEE RESPONSE NARRATIVE FOR** " Otter Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

BIG LAKE CREEK ((b) (3), (b) (7)(F)

CP1: 0.1 mile downstream (b) (3), (b) (7)(F) accessible by gravel road 0.30 miles east off HWY B. Inside "Wappapello's Wildlife Management Area".

CP2: 2.0 miles downstream off (b) (3), (b) (7)(F), accessible from HWY FF inside "Wappapello's Wildlife Management Area". Approximately 2.0 miles northwest from SH 67.

CP3: (FRANCIS RIVER - CP5)

6.3 miles downstream from M(b) (3), (b) (7)(F), accessible from SH 67 inside "Wappapello's Wildlife Management Area".

Sunrise Lake **(S-55)**

Sunrise Lake is classified as a Recreational Lake located within the Environmentally Sensitive Area, approximately 4.58 miles west of Owner's pipeline at (b) (3), (b) (7)(F) NENW Section 26, T-29-N, R-4-E, in Wayne County.

This recreational lake is not considered to be at risk due its geographical location from the pipeline and the anticipated direction of flow in the event of an emergency.

Lake Wappapello **(W-6)**

Lake Wappapello is classified as a Recreational Lake located within the Environmentally Sensitive Area, approximately 4.58 miles west of Owner's pipeline (b) (3), (b) (7)(F) in Sections 15, 16, 17, 22, 23, 26, 27, T-29-N, R-5-E, in Wayne County. Individual valving exists at the South and North side of the pipeline crossing the lake. In the event of an emergency the pipeline operations Control Center at Houston, (b) (3), (b) (7)(F)

(*see footnote).

Little Lake Creek **(MWC-12)**

Little Lake Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline at M(b) (3), (b) (7)(F) in Wayne County. **SEE RESPONSE NARRATIVE FOR** "Otter Creek". (b) (3), (b) (7)(F)

.

LITTLE LAKE CREEK (b) (3), (b) (7)(F)

CP1: 1.5 miles downstream, accessible from HWY FF inside "Wappapello's Wildlife Management Area". Approximately 3.0 miles northwest from SH 67.

CP2: (FRANCIS RIVER - CP5)

6.3 miles downstream from (b) (3), (b) (7)(F)), accessible from SH 67 inside "Wappapello's Wildlife Management Area".

St. Francis River **(SFS-8)**

St. Francis River is classified as a Cool Water Sports Fishing Stream located within the Environmentally Sensitive Area, crossing Owner's pipeline at (b) (3), (b) (7)(F) 2 in Wayne County. **SEE RESPONSE NARRATIVE FOR** "Lake Wappapello".

FRANCIS RIVER ((b) (3), (b) (7)(F)

CP1: Approximately 13 miles downstream from the Twelve Mile (b) (3), (b) (7)(F) into the Francis River. The CP is accessible from HWY C, approximately 7.0 miles west from SH 67.

CP2: Approximately 15.5 miles downstream from the Twelve Mile (b) (3), (b) (7)(F) into (b) (3), (b) (7)(F). The CP is accessible by gravel road off HWY FF. Approximately 2.5 miles north from HWY NN.

CP3: 2.7 miles downstream from (b) (3), (b) (7)(F) on the Francis River, accessible from gravel road off HWY K. Approximately 2 miles northwest off SH 67.

CP4: 7.5 miles downstream from (b) (3), (b) (7)(F) on the Francis River, accessible from HWY 34 inside "Wappapello's Wildlife Management Area".

CP5: 6.3 miles downstream from M(b) (3), (b) (7)(F), accessible from SH 67 inside "Wappapello's Wildlife Management Area".

Note: **According to location and size of spill, additional CP's shall be located and deployed downstream by Deputy Incident Commander and Incident Commander.**

Silva Tract **(S-31)**

Silva Tract is classified as a State Park located east of Silva off Highway 67, Section 13, T-29-N, R-5-E, in Wayne County. Approximately 2.56 miles east of Owner's pipeline at (b) (3), (b) (7)(F) 0. Two Hundred-Thirty-Six (236) acres. Hunting permitted. This State Park is considered to be at risk due its geographical location, bordering Hubble creek to the west. **SEE RESPONSE NARRATIVE FOR** " Hubble Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

Hubble Creek **(MWC-13)**

Hubble Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing

(b) (3), (b) (7)(F)

is(b) (3), (b) (7)(F)

HUBBLE CREEK (b) (3), (b) (7)(F)

CP1: 0.8 miles downstream, accessible from SH 67, 0.1 miles north from HWY 34. Approximately 1.0 mile north from "Wappapello's Wildlife Management Area".

CP2: 1.0 mile downstream, accessible from HWY 34, 0.05 mile west from SH 67. Approximately 1.0 mile north from "Wappapello's Wildlife Management Area".

CP3: 2.0 miles downstream, accessible from gravel road 0.1 mile west fromSH 67. Inside "Wappapello's Wildlife Management Area".

CP4: (FRANCIS RIVER - CP5)

6.3 miles downstream from [redacted] 2), accessible from SH 67 inside "Wappapello's Wildlife Management Area".

"Mudlick Mountain Natural Area" **(MNA-1)**

Mudlick Mountain Natural Area is classified as a Missouri Natural Area located 3.00 miles north of Patterson on Highway 143. Approximately 3.16 miles west of [redacted]. A One Thousand-Three

Hundred-Seventy (1,370) acre area within Samuel A. Baker State Park; part of Section 16, 17, 18, 19, 20, and 21, T-30-N, R-5-E in Wayne County.

Mudlick Mountain Natural Area includes one of the most significant remaining old growth forest of the St. Francois Mountain Section in the Ozark Natural Division. The eastern slope is heavily forested and strewn with igneous boulders. Much of this slope features old growth white oak-black forest with a well-developed understory of flowering dogwood. The northern end of Mudlick Mountain is dissected by Big Creek (State Resource Waters), forming one of Missouri's largest and deepest canyon like gorges with shut-ins, igneous glades, igneous talus slopes and sheer igneous bluffs. The rare yellowwood (Cladrastic Lutea) occurs on the rick talus slopes. Mudlick mountain is one of the highest igneous knobs in Missouri and is subject to the impacts of windstorms, lighting, snow and ice. This State Park is considered to be at risk due its geographical location from the pipeline should

a release occur at the Bennett Creek Crossing, which flows into the St. Francis River, which borders this State Park to the east. **SEE RESPONSE NARRATIVE FOR** "Bennett Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

Samuel A. Baker State Park **(SP-1)**

Samuel A. Baker State Park is classified as a State Park located 3.00 miles north of Patterson in Highway 143. Approximately 4.30 miles west of (b) (3), (b) (7)(F), within the St. Francois Mountains, Sections 17, 18, 19, 20, 21, 28, 29, 30, 31, 32 and 33, T-30-N, R-5-E, in Wayne County. This is a wilderness area (Missouri Natural Area). Camping, backpacking, hiking, swimming, boating and sport fishing permitted. This State Park is considered to be at risk due its geographical location from the pipeline, should a release occur at the Bennett Creek Crossing, and the anticipated direction of flow in the event of an emergency. **SEE RESPONSE NARRATIVE FOR** "Bennett Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

Big Creek **(SRW-1)**

Big Creek is classified as a State Resource Waters/Cool Water Sport Fishing Stream located within the Environmentally Sensitive Area, approximately 2.72 miles west of Owner's pipeline at MP-514.00, forming the east boundary of Samuel A. Baker State Park in Ripley County. This creek could be considered to be at risk due its geographical location from the pipeline and the anticipated direction of flow in the event of an emergency.

Groves Mountain State Forest **G-14)**

Groves Mountain State Forest is classified as a State Parks located north of Patterson on Highway "N" and north off Highway 143 and extends into Iron County. Approximately 1.42 miles west of (b) (3), (b) (7)(F) Three Thousand-Six Hundred-Seventy-Nine (3,679) acres. Hunting is permitted. This State

Park is considered to be at risk due its geographical location from the pipeline, should a release occur at the Bennett Creek

Crossing, and the anticipated direction of flow in the event of an emergency. **SEE RESPONSE NARRATIVE FOR** "Bennett Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

Bennett Creek **MWC-14)**

Bennett Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area crossing Owner's pipeline at (b) (3), (b) (7)(F) County. Although individual valving at this creek crossing is nonexistent, an operations control center at Houston, Texas can be used to remotely shut down the pipeline system and remotely close the (b) (3), (b) (7)(F)

[redacted]

BENNETT CREEK (MP-515.75)

CP1: 0.3 miles downstream, accessible from SH 67. Approximately 1.5 miles south from "Cold Water Park".

CP2: (FRANCIS RIVER - CP3)

2.7 miles downstream from (b) (3), (b) (7)(F) on the Francis River, accessible from gravel road off HWY K. Approximately. 2 miles northwest off SH 67.

CP3: (FRANCIS RIVER - CP4)

7.5 miles downstream from [redacted] on the Francis River, accessible from HWY 34 inside "Wappapello's Wildlife Management Area".

CP4: (FRANCIS RIVER - CP5)

6.3 miles downstream from [redacted], accessiblefromSH67inside "Wappapello's Wildlife Management Area".

Hunter Creek **(MWC-15)**

Hunter Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's [redacted] in Wayne County. **SEE RESPONSE NARRATIVE FOR** "Bennett Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

HUNTER CREEK [redacted])

CP1: 0.25 miles downstream, accessible from SH 67. Approximately 1.25 miles south from "Cold Water Park".

CP2: (FRANCIS RIVER - CP3)

2.7 miles downstream from M[redacted]5 on the Francis River, accessible from gravel road off HWY K. Approximately. 2 miles northwest off SH 67.

CP3: (FRANCIS RIVER - CP4)

7.5 miles downstream from [redacted] on the Francis River, accessible from HWY 34 inside "Wappapello's Wildlife Management Area".

CP4: (FRANCIS RIVER - CP5)

6.3 miles downstream from [redacted] accessible from SH 67 inside "Wappapello's Wildlife Management Area".

Coldwater State Park **(C-40)**

Coldwater State Park is classified as a State Park located south of Coldwater off Highway 67 and east on Highway "M", extending east into Bollinger County. Approximately 1.58 miles east of Owner's pipeline (b) (3), (b) (7)(F). Seven Thousand-Two Hundred-Fifty-Three (7,253) acres, within Coldwater State Forest, Sections 9, 10, 11, 14, 15, 16, 17 and 18, T-30-N, R-6-E, in Wayne County. Hunting permitted. This State Park is not considered to be at risk due its geographical location from the pipeline and the anticipated direction of flow in the event of an emergency.

Cedar Creek **(MWC-16)**

CedarCreek is classified as a Miscellaneous Water Crossing located within the EnvironmentallySensitive Area, crossing (b) (3), (b) (7)(F) in Wayne County**. SEE RESPONSE NARRATIVE FOR** "Bennett Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

CEDAR CREEK (b) (3), (b) (7)(F)

CP1: 0.35 miles downstream, accessible from SH 67. Approximately 0.5 miles north from "Cold Water Park".

CP2: (FRANCIS RIVER - CP3)

2.7 miles downstream from (b) (3), (b) (7)(F) on the Francis River, accessible from gravel road off HWY K. Approximately. 2 miles northwest off SH 67.

CP3: (FRANCIS RIVER - CP4)

7.5 miles downstream from (b) (3), (b) (7)(F) on the Francis River, accessible from HWY 34 inside "Wappapello's Wildlife Management Area".

CP4: (FRANCIS RIVER - CP5)

6.3 miles downstream from [redacted], accessible from SH 67 inside "Wappapello's Wildlife Management Area".

Twelve Mile Creek **(SFS-9)**

Twelve Mile Creek is classified as a Cool Water Sports Fishing Stream located within the Environmentally Sensitive Area, crossing Owner's pipeline [redacted] in Madison County. **SEE RESPONSE NARRATIVE FOR** "Bennett Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

TWELVE MILE CREEK ([redacted])

CP1: 1.5 miles downstream from M[redacted] Accessible from road 0.75 miles north from HWY HH.

CP2: 2.9 miles downstream from M[redacted]. Accessible from HWY HH 2.0 miles northwest from HWY N.

CP3: 4.9 miles downstream from [redacted]0. Accessible from HWY C 6.0 miles northwest from SH 67.

CP4: (FRANCIS RIVER - CP1)

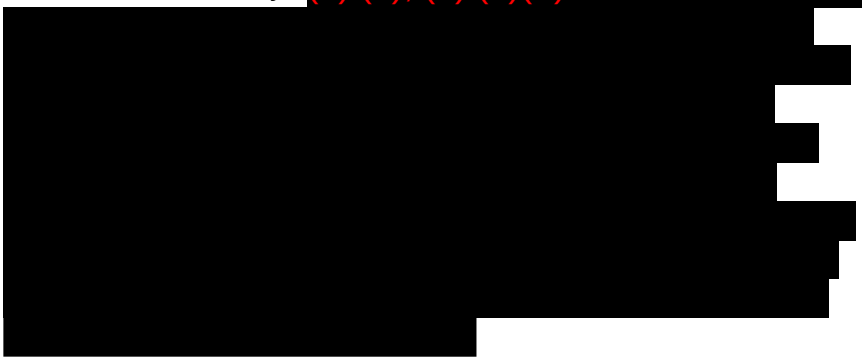
Approximately 13 miles downstream from the Twelve Mile Creek [redacted] into the Francis River. The CP is accessible from HWY C, approximately 7.0 miles west from SH 67.

CP5: (FRANCIS RIVER - CP2)

Approximately 15.5 miles downstream from the Twelve Mile Creek [redacted] into the Francis River. The CP is accessible by gravel road off HWY FF. Approximately 2.5 miles north from HWY NN.

Brown Lake **(B-68)**

Brown Lake is classified as a Recreational Lake located within the Environmentally Sensitive Area, approximately 0.40 miles west of Owner's pipeline at [redacted] 70. SWSE Section 11, T-32-N, R-7-E, in Madison County. [redacted]



Greasy Creek **(MWC-17)**

Greasy Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline [redacted] in Madison County. **SEE RESPONSE NARRATIVE FOR** "Brown Lake". Emergency response personnel and equipment can be accessed from Doniphan Station.

GREASY CREEK [redacted])

CP1: 1.5 miles downstream, accessible from gravel road. Approximately 0.80 mile west from HWY HH.

CP2: 4.8 miles downstream, accessible from HWY A. Approximately 0.75 miles east from town of Marquand.

CP3: (CASTOR RIVER - CP2)

8.2 miles downstream, accessible from HWY A. Within the town of Marquand.

CP4: (CASTOR RIVER - CP3)

10.9 miles downstream, accessible from HWY DD. Approximately 2.5 miles southeast from the town of Junction City.

Henderson Creek **(MWC-18)**

Henderson Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline [redacted] in Madison County. **SEE RESPONSE NARRATIVE FOR** "Brown Lake". Emergency response personnel and equipment can be accessed from Doniphan Station.

Castor River **(SFS-10)**

Castor River is classified as a Cool Water Sports Fishing Stream located within the Environmentally Sensitive Area, crossing Owner's pipeline [redacted] **FOR** "Brown Lake".

Emergency response personnel and equipment can be accessed from Doniphan Station. In extreme emergencies, private contractors would be used to do containment and cleanup work (*see footnote).

CASTOR RIVER [redacted])

CP1: 2.0 miles downstream, accessible from HWY V. Approximately 9.0 miles southeast from the town of Junction City.

CP2: 8.2 miles downstream, accessible from HWY A. Within the town of Marquand.

CP3: 10.9 miles downstream, accessible from HWY DD. Approximately 2.5 miles southeast from the town of Junction City.

Amidon Memorial **(A-8)**

(b) (3), (b) (7)(F) .

Six Hundred- Fifty-Two (652) acres. Sport fishing along the Castor River and hunting is permitted. This State Park is considered to be at risk due its geographical location from the pipeline, should a release occur at the Castor River Crossing. **SEE RESPONSE NARRATIVE FOR** "Brown Lake". Emergency response personnel and equipment can be accessed from Doniphan Station.

Cape Creek **(MWC-19)**

Cape Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline (b) (3), (b) (7)(F) in Madison County. **SEE RESPONSE NARRATIVE FOR** "Brown Lake". Emergency response personnel and equipment can be accessed from Doniphan Station.

CAPE CREEK (M(b) (3), (b) (7)(F)

CP1: (CASTOR RIVER - CP1)

2.0 miles downstream, accessible from HWY V. Approximately 9.0 miles southeast from the town of Junction City.

CP2: (CASTOR RIVER - CP2)

8.2 miles downstream, accessible from HWY A. Within the town of Marquand.

CP3: (CASTOR RIVER - CP3)

10.9 miles downstream, accessible from HWY DD. Approximately 2.5 miles southeast from the town of Junction City.

Combs Creek **(MWC-20)**

Combs Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing (b) (3), (b) (7)(F) in Bollinger County. **SEE RESPONSE NARRATIVE FOR** "Brown Lake". Emergency response personnel and equipment can be accessed from Doniphan Station.

Duchesne Access **(D-32)**

Duchesne Access is classified as a State Park located 7.00 miles east of Fredericktown off Highway "J", SE Section 4, T-33-N, R-8-(b) (3), (b) (7)(F) 00.Four(4) acres. Sport fishing along the Castor River is permitted. This State Park is not considered to be at risk due its geographical location from the pipeline and the anticipated direction of flow in the event of an emergency.

Blue Creek **(MWC-21)**

Blue Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline(b) (3), (b) (7)(F) in Bollinger County. Although individual valving at this creek crossing is nonexistent, an operations control center at Houston, (b) (3), (b) (7)(F)

CP1: 1.2 miles downstream, accessible from gravel road 1.0 mile off HWY NN. Approximately 2.0 miles northeast from Yount Station.

CP2: (CONRAD CREEK - CP1)

0.4 miles downstream, accessible from gravel road. CP is approximately 4.3 miles west from SH 51 and 3.25 miles east from Yount Station.

CP3: (WHITEWATER RIVER - CP2)

1.4 miles downstream, accessible from gravel road. Approximately 5.3 miles northeast from Yount Station and 3.0 miles southeast from "Clark National Forest".

CP4: (WHITEWATER RIVER - CP3)

3.7 miles downstream, accessible from SH 51. Approximately 5.0 miles north from SH 72.

CP5: (WHITEWATER RIVER - CP4)

5.7 miles downstream, accessible from gravel road. Approximately 3.0 miles north from SH 72 and 2.5 miles south from HWY KK.

Little Whitewater **(L-31)**

Little Whitewater is classified as a State Parks located northwest of Patton off Highway "HH". (b) (3), (b) (7)(F) [redacted] within the State Forest, SENW Section 22, T-33-N, R-9-E, in

Bollinger County. Eighty (80) acres. Hunting is permitted. This State Park is not considered to be at risk due its geographical location from the pipeline and the anticipated direction of flow in the event of an emergency.

Conrad Creek **(MWC-22)**

Conrad Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing (b) (3), (b) (7)(F) in Bollinger County. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

CONRAD CREEK ((b) (3), (b) (7)(F) 0)

CP1: 0.4 miles downstream, accessible from gravel road. CP is approximately 4.3 miles west from SH 51 and 3.25 miles east from Yount Station.

CP2: (WHITEWATER RIVER - CP2)

1.4 miles downstream, accessible from gravel road. Approximately 5.3 miles northeast from Yount Station and 3.0 miles southeast from "Clark National Forest".

CP3: (WHITEWATER RIVER - CP3)

3.7 miles downstream, accessible from SH 51. Approximately 5.0 miles north from SH 72.

CP4: (WHITEWATER RIVER - CP4)

5.7 miles downstream, accessible from gravel road. Approximately 3.0 miles north from SH 72 and 2.5 miles south from HWY KK.

Neece Branch **(MWC-23)**

Neece Branch is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline at M(b) (3), (b) (7)(F) in Perry County. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

(b) (3), (b) (7)(F)

CP1: (WHITEWATER RIVER - CP1)

0.3 miles downstream, accessible from HWY J. Approximately 1.8 miles southeast from "Clark National Forest".

CP2: (WHITEWATER RIVER - CP2)

1.4 miles downstream, accessible from gravel road. Approximately 5.3 miles northeast from Yount Station and 3.0 miles southeast from "Clark National Forest".

CP3: (WHITEWATER RIVER - CP3)

3.7 miles downstream, accessible from SH 51. Approximately 5.0 miles north from SH 72.

CP4: (WHITEWATER RIVER - CP4)

5.7 miles downstream, accessible from gravel road. Approximately 3.0 miles north from SH 72 and 2.5 miles south from HWY KK.

Whitewater River **(SFS-11)**

Whitewater River is classified as a Cold Water Sports Fishing Streams located within the Environmentally Sensitive Area, crossing Owner's pipeline (b) (3), (b) (7)(F) in Perry County. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station. In extreme emergencies, private contractors would be used to do containment and cleanup work.

WHITEWATER RIVER (M(b) (3), (b) (7)(F)

CP1: 0.3 miles downstream, accessible from HWY J. Approximately 1.8 miles southeast from "Clark National Forest".

CP2: 1.4 miles downstream, accessible from gravel road. Approximately 5.3 miles northeast from Yount Station and 3.0 miles southeast from "Clark National Forest".

CP3: 3.7 miles downstream, accessible from SH 51. Approximately 5.0 miles north from SH 72.

CP4: 5.7 miles downstream, accessible from gravel road. Approximately 3.0 miles north from SH 72 and 2.5 miles south from HWY KK.

Parker Lake **(P-43)**

Parker Lake is classified as a Recreational Lake located within the Environmentally Sensitive Area, approximately 4.82 miles west of Owner's (b) (3), (b) (7)(F) . SW Section 32, T-35-N, R-9-E and NENE Section 6, T-34-N, R-9-E, in Perry County. This Recreational Lake is considered to be at risk due its geographical location from the pipeline, should a release occur at the South Fork Saline River Crossing, and the anticipated direction of flow in the event of an emergency. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

Nations Creek **(MWC-24)**

Nations Creek is classified as a Miscellaneous Water crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline(b) (3), (b) (7)(F) in Perry County. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

NATIONS CREEK (b) (3), (b) (7)(F))

CP1: 2.25 miles downstream, accessible from gravel road. Approximately 3.0 miles northwest from SH 51 and 0.1 mile east from HWY CC.

CP2: (SOUTH FORK SALINE CREEK - CP1)

2.0 miles downstream from M(b) (3), (b) (7)(F), accessible from HWY T. Approximately 2.0 miles west from Interstate 55 and 3.0 miles west from town of Perryville.

CP3: (SOUTH FORK SALINE CREEK - CP2)

5.5 miles downstream from M(b) (3), (b) (7)(F), accessible from gravel road. Approximately 1.0 miles south from Interstate 55 and 1.0 mile south from SH 61.

CP4: (SOUTH FORK SALINE CREEK - CP3)

6.7 miles downstream from (b) (3), (b) (7)(F), accessible from road. Approximately 1.5 miles south from Interstate 55 and 2.0 miles south from SH 61.

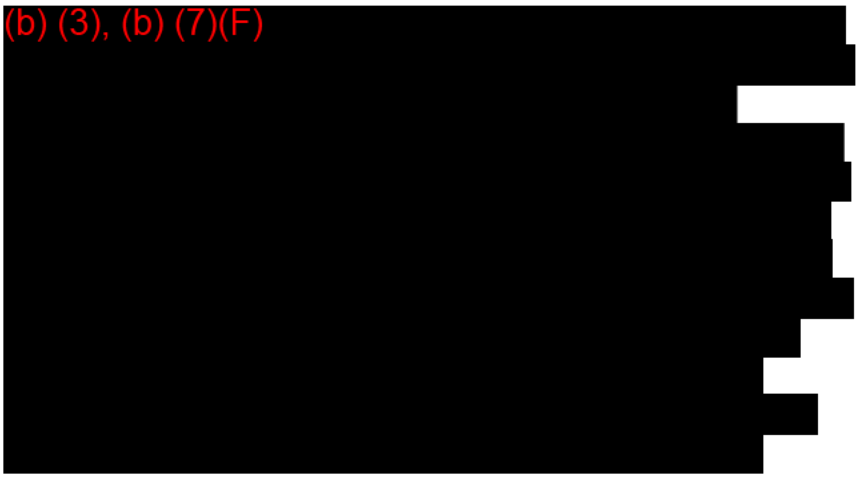
Kah-Tan-Da Lake **(K-15)**

Kah-Tan-Da lake is classified as a Recreational Lake located within the Environmentally Sensitive Area, approximately 1.20 miles east of Owner's pipeline at (b) (3), (b) (7)(F) Section 13, T-34-N. R-9-E, in Perry County. This Recreational Lake is considered to be at risk due its geographical location from the pipeline, should a release occur. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

Perco Lakes **(P-42)**

Perco Lakes is classified as a Recreational Lake located within the Environmentally Sensitive Area, approximately 1.98 miles east of Owner's pipeline (b) (3), (b) (7)(F). SWSW Section 5 and NWNW Section 8, T-34-N, R-10-E, in Perry County. This Recreational Lake is not considered to be at risk due its geographical location from the pipeline and the anticipated direction of flow in the event of an emergency.

South Fork Saline Creek **(LS-4)**



South Fork Saline Creek **(SFS-12)**

South Fork Saline Creek is classified as a Cold Water Sports Fishing Streams located within the Environmentally Sensitive Area, crossing Owner's pipeline at (b) (3), (b) (7)(F) in Perry County. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

SOUTH FORK SALINE CREEK (b) (3), (b) (7)(F) 2)

CP1: 2.0 miles downstream from (b) (3), (b) (7)(F), accessible from HWY T. Approximately 2.0 miles west from Interstate 55 and 3.0 miles west from town of Perryville.

CP2: 5.5 miles downstream from (b) (3), (b) (7)(F), accessible from gravel road. Approximately 1.0 miles south from Interstate 55 and 1.0 mile south from SH 61.

CP3: 6.7 miles downstream from (b) (3), (b) (7)(F) 0, accessible from road. Approximately 1.5 miles south from Interstate 55 and 2.0 miles south from SH 61.

Perry County Community Lake **(P-15)**

Perry County Community Lake is classified as a State Parks located 2.37 miles west of Perryville off Highway "T", SE Section 22, T-35-N, R-10-E, in Perry County. Approximately 1.19 miles east of Owner's pipeline(b) (3), (b) (7)(F). Three hundred (300) acres recreational site and One Hundred-One (101) surface acres Lake. Sport fishing permitted. This Recreational Lake is considered to be at risk due its geographical location from the pipeline, should a release occur. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

Blue Spring Branch **(SFS-16)**

Blue Spring Branch is classified as a Cold Water Sports Fishing Stream located within the Environmentally Sensitive Area, crossing Owner's (b) (3), (b) (7)(F) in Perry County. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

BLUE SPRING CREEK(b) (3), (b) (7)(F)

CP1: 0.8 miles downstream, accessible from gravel road, 1.0 mile off HWY V. CP is approximately 4.5 miles north from town of Perryville.

CP2: 3.0 miles downstream, accessible from private residence area inside the town of Lithium. Approximately 0.5 miles south off HWY M.

CP3: (BOIS BRULE CREEK - CP1)

0.2 mile downstream, accessible from HWY M. Approximately 5.5 miles south from the Mississippi River.

CP4: (BOIS BRULE CREEK - CP2)

2.7 miles downstream, accessible from SH 51. Approximately 6.0 miles south from the Mississippi River.

CP5: (BOIS BRULE CREEK - CP3)

5.4 miles downstream, accessible from road. Approximately 2.0 miles south from the town of Belgique.

"Ball Mill Resurgence Natural Area" **(MNA-2)**

Ball Mill Resurgence Natural Area is classified as a Missouri Natural Area located 5.95 miles north of Perryville off Highway "V". Approximately 0.80 miles east of Owner's pipeline(b) (3), (b) (7)(F). A Twenty (20) acre Nature Area, Section 23 and SW 1/4 Section 24, T-36-N, R-10-E in Perry County. This Natural Area is considered to be at risk due its geographical location from the pipeline, should a release occur.

The geological natural area contains a sinkhole that normally acts as a water drain, but backs up as a spring after heavy rains. The resurgence acts as a natural rock tumbler which smooths and rounds angular rock fragments that fall into it. The area is forested and also contains several small, dry sinkholes. It is in the Mississippi River Section of the Ozark Border Natural Division. Collecting of geological specimens is prohibited. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

Falls Branch **(MWC-25)**

Falls Branch is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline at(b) (3), (b) (7)(F) y. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

FALLS BRANCH (b) (3), (b) (7)(F)

CP1: (BOIS BRULE CREEK - CP1)

0.2 mile downstream, accessible from HWY M. Approximately 5.5 miles south from the Mississippi River.

CP2: (BOIS BRULE CREEK - CP2)

2.7 miles downstream, accessible from SH 51. Approximately 6.0 miles south from the Mississippi River.

CP3: (BOIS BRULE CREEK - CP3)

5.4 miles downstream, accessible from road. Approximately 2.0 miles south from the town of Belgique.

Bois Brule Creek **(MWC-26)**

Bois Brule Creek is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline at (b) (3), (b) (7)(F)9 in Perry County. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

BOIS BRULE CREEK ((b) (3), (b) (7)(F)

CP1: 0.2 mile downstream, accessible from HWY M. Approximately 5.5 miles south from the Mississippi River.

CP2: 2.7 miles downstream, accessible from SH 51. Approximately 6.0 miles south from the Mississippi River.

CP3: 5.4 miles downstream, accessible from road. Approximately 2.0 miles south from the town of Belgique.

CP4: 8.5 miles downstream, accessible from HWY E. Approximately 2.0 miles northeast from the town of Menfro.

CP5: 11.0 miles downstream, accessible from HWY C. Within the town of Menfro.

Canal **(MWC-27)**

Canal is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline at M(b) (3), (b) (7)(F)1 in Perry County. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

Canal **(MWC-28)**

Canal is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline at(b) (3), (b) (7)(F) in Perry County. **SEE RESPONSE NARRATIVE FOR** "Blue Creek". Emergency response personnel and equipment can be accessed from Doniphan Station.

CANAL (b) (3), (b) (7)(F)

CP1: 2.0 miles downstream, accessible from HWY C. Approximately 0.7 miles east from SH 51.

CP2: (BOIS BRULE CREEK - CP3)

5.4 miles downstream, accessible from road. Approximately 2.0 miles south from the town of Belgique.

CP3: (BOIS BRULE CREEK - CP4)

8.5 miles downstream, accessible from HWY E. Approximately 2.0 miles northeast from the town of Menfro.

CP4: (BOIS BRULE CREEK - CP5)

11.0 miles downstream, accessible from HWY C. Within the town of Menfro.

Mississippi River

(MWC-29)

Mississippi River is classified as a Miscellaneous Water Crossing located within the Environmentally Sensitive Area, crossing Owner's pipeline at (b) (3), (b) (7)(F) [redacted] ergency response personnel and equipment can be accessed from Doniphan and Patoka Stations. In extreme emergencies, private contractors would be used to do containment and cleanup work .

MISSISSIPPI RIVER ((b) (3), (b) (7)(F)) [Refer to River Map]

***CP1-CP2:** River MM 103 & 105: Private property cropland - Dry weather access only; too short of flow time to use as a control point.

***CP3:** River MM 88.5; Starland; boat can be put in but no ramp; small cove to catch oil; small vacuum truck can access but road is very rough. All weather access. Location: from Altonburgh, S.H. "Y", north approximately 4.3 miles to C.R. 440; north 2.3 miles to river.

*__CP4__: River MM 84.5; Private property cropland - Dry weather access only. Too short of flow time to use as a control point.

*__CP5__: River MM 81.2; Wittenburg - concrete ramp, all weather access and a small cove to catch oil. (b) (3), (b) (7)(F) [redacted]

*__CP6__: River MM 80; Tower Rock - has no boat ramp but is a better location to catch oil as it has a large cove. From Wittenburg - west on S.H. A 1/4 mile to C.R. 460. South approximately 2.3 miles to Tower Rock.

*__CP7__: River MM 75; Apple Creek - Missouri Department of Conservation Public Boat Ramp - Boat ramp only. From SH 61 go east on S.H. CC 7.5 miles through Shawne; look for Apple Creek Boat Ramp sign on left. Turn, 0.8 iles to boat ramp.

*__CP8:__ River MM 66.6; Trail of Tears State Park - Boat ramp and possible oil pickup site. From Fruitland go northeast on SH 177 approximately 12 miles; take second park exit, 2 miles to boat ramp.

OTHER POTENTIAL CPs (Directions from Missouri Side)

CP1: 8.8 miles downstream, accessible from gravel and dirt road off SH 3 in the State of Illinois. Approximately 9.0 miles east from town of Chester.

CP2: 10.40 miles downstream, accessible by boat ramp from gravel road where "Wagners Landing Boat Ramp" exist. (Jackson Co., Illinois). CP not shown on EOM-31.

CP3: 17.4 miles downstream, accessible by dirt boat ramp from gravel road off SH D. (Perry Co., Illinois). CP not shown on EOM-31.

CP4: 19.1 miles downstream, accessible by rock and gravel boat ramp from gravel road 2.0 miles off SH Y. (Perry Co., Illinois). CP not shown on EOM-31.

CP5: 24.9 miles downstream, accessible by loading dock from asphalt road 2.0 miles off SH 3. (Jackson Co., Illinois). CP not shown on EOM-31.

CP6: 37.0 miles downstream, accessible by gravel road 0.7 mile off SH J and 1.6 mile off JCT SH 177. (Cape Girardeau Co., Illinois). CP not shown on EOM-31.

Directions from Illinois Side

CP1: 8.8 miles downstream,go thru Rockwood to Coral Levee Road - at split follow gravel road (Levee Rd.) to west; 1.0 mile to river access.

CP2: 10.4 miles downstream; 12.3 miles south of Chester on Rt. 3 to Jones Ridge Rd. Turn west and go 3.6 miles to T; turn left on Levee Rd; 4.3 miles to river access.

CP3: 17.4 miles downstream; from Chester, cross river bridge and make first south (left from Illinois direction) onto gravel road (Levee Road). Follow Levee Road 7.2 miles to boat access.

CP4: 19.1 miles downstream; from Chester cross river bridge and make first south (left from Illinois direction) onto gravel road (Levee Road). Follow Levee Road 9.7 miles to boat access.

CP5: 24.9 miles downstream; turn west on Powerplant Road (past powerplant to A frame building) off State Highway 3, 30.8 miles southeast of Chester. [redacted]

[redacted]3)

CP6: 37.0 miles downstream, accessible from gravel road off State Highway 3, 20.4 miles southeast of Perryville. Follow gravel road 9.2 miles to Neelys Landing on the river.

Region Five

A. **Corsicana to Patoka Crude (EOM-31)**

1. **MISSISSIPPI RIVER [redacted]) [Refer to River Map]**

***CP1-CP2:** River MM 103 & 105: Private property cropland - Dry weather access only; too short of flow time to use as a control point.

***CP3:** River MM 88.5; Starland; boat can be put in but no ramp; small cove to catch oil; small vacuum truck can access but road is very rough. All weather access. Location: from Altonburgh, S.H. "Y", north approximately 4.3 miles to C.R. 440; north 2.3 miles to river.

***CP4**: River MM 84.5; Private property cropland - Dry weather access only. Too short of flow time to use as a control point.

***CP5**: River MM 81.2; Wittenburg - concrete ramp, all weather access and a small cove to catch oil. [redacted] rom Union town, S.H. 61, go east approximately 8 miles on S.H. A to Wittenburg.

***CP6**: River MM 80; Tower Rock - has no boat ramp but is a better location to catch oil as it has a large cove. From Wittenburg - west on S.H. A 1/4 mile to C.R. 460. South approximately 2.3 miles to Tower Rock.

***CP7**: River MM 75; Apple Creek - Missouri Department of Conservation Public Boat Ramp - Boat ramp only. From SH 61 go east on S.H. CC 7.5 miles through Shawne; look for Apple Creek Boat Ramp sign on left. Turn, 0.8 iles to boat ramp.

***CP8:** River MM 66.6; Trail of Tears State Park - Boat ramp and possible oil pickup site. From Fruitland go northeast on SH 177 approximately 12 miles; take second park exit, 2 miles to boat ramp.

OTHER POTENTIAL CPs (Directions from Missouri Side)

CP1: 8.8 miles downstream, accessible from gravel and dirt road off SH 3 in the State of Illinois. Approximately 9.0 miles east from town of Chester.

CP2: 10.40 miles downstream, accessible by boat ramp from gravel road where "Wagners Landing Boat Ramp" exist. (Jackson Co., Illinois). CP not shown on EOM-31.

CP3: 17.4 miles downstream, accessible by dirt boat ramp from gravel road off SH D. (Perry Co., Illinois). CP not shown on EOM-31.

CP4: 19.1 miles downstream, accessible by rock and gravel boat ramp from gravel road 2.0 miles off SH Y. (Perry Co., Illinois). CP not shown on EOM-31.

CP5: 24.9 miles downstream, accessible by loading dock from asphalt road 2.0 miles off SH 3. (Jackson Co., Illinois). CP not shown on EOM-31.

CP6: 37.0 miles downstream, accessible by gravel road 0.7 mile off SH J and 1.6 mile off JCT SH 177. (Cape Girardeau Co., Illinois). CP not shown on EOM-31.

Directions from Illinois Side

CP1: 8.8 miles downstream,go thru Rockwood to Coral Levee Road - at split follow gravel road (Levee Rd.) to west; 1.0 mile to river access.

CP2: 10.4 miles downstream; 12.3 miles south of Chester on Rt. 3 to Jones Ridge Rd. Turn west and go 3.6 miles to T; turn left on Levee Rd; 4.3 miles to river access.

CP3: 17.4 miles downstream; from Chester, cross river bridge and make first south (left from Illinois direction) onto gravel road (Levee Road). Follow Levee Road 7.2 miles to boat access.

CP4: 19.1 miles downstream; from Chester cross river bridge and make first south (left from Illinois direction) onto gravel road (Levee Road). Follow Levee Road 9.7 miles to boat access.

CP5: 24.9 miles downstream; turn west on Powerplant Road (past

powerplant to A frame building) off State Highway 3, 30.8 miles

southeast of Chester. (b) (3), (b) (7)(F) [redacted]

CP6: 37.0 miles downstream, accessible from gravel road off State Highway 3, 20.4 miles southeast of Perryville.

Follow gravel road 9.2 miles to Neelys Landing on the river.

2. **PATTEN BRANCH**

Area: (b) (3), (b) (7)(F)

CP1: 0.8 miles downstream; turn left off SH 3 on Cole Place; 1.0 mile to 1st bridge. Access at bridge.

CP2: 2.1 miles downstream, accessible from State Highway 3, 3 miles southeast of Chester. A two lane bridge crosses Patten Branch at this point of SH3. (Branch at Mary's River bridge on SH3)

3. **UNNAMED BRANCH OF MARYS RIVER**

Area: (b) (3), (b) (7)(F)

CP1: 2.8 miles downstream; turn left off SH 3 at Cole Place. Follow Cole Place 3.4 miles to bridge crossing the river branch.

CP2: 6.7 miles downstream, accessible from State Highway 3, 3.0 miles southeast of Chester from bridge crossing the river branch; access located east of River Bridge on SH 3

4. **LITTLE MARYS RIVER**

Area: (b) (3), (b) (7)(F)

CP1: 3.8 miles downstream, accessible from paved highway 4.5

miles east of Chester from bridge crossing the river.

CP2: 7.4 miles downstream; turn left off SH3 on Cole Place; 3.4 miles to river.

CP3: 11.4 miles downstream, accessible from State Highway 3, 3.0 miles southeast of Chester to bridge crossing the river. Boat launch on south west side of bridge.

5. **FRICKLES BRANCH**

Area: (b) (3), (b) (7)(F)

CP1: 0.9 miles downstream; turn south off 150 at Bremen; south to tavern; turn left on Winehill Road. Follow Winehill 2.1 miles to bridge crossing river branch.

CP2: 8.9 miles downstream, accessible from paved road off Highway 150, 0.9 miles northeast from the intersection of Highway 3 and 150 in Chester. Follow paved road 4.5 miles to bridge crossing river branch.

6. **UNNAMED BRANCH OF MARYS RIVER**

Area: (b) (3), (b) (7)(F)

CP1: 0.8 miles downstream, accessible from gravel road off Highway 150, 7.9 miles northeast from intersection of Highway 3 and 150 in Chester. Follow paved road 2.4 miles to bridge crossing over river branch.

CP2: 5.7 miles downstream, accessible from Winehill Road at Bremen off Highway 150, 6.4 miles northeast from intersection of Highway 3 and 150 in Chester. Follow paved road 3.0 miles to bridge crossing over river branch.

7. **MARYS RIVER**

Area: (b) (3), (b) (7)(F)

CP1: 1.9 miles downstream; turn north on Spara Road (at Hucks) in Steeleville; 1.8 miles to river crossing bridge.

CP2: .9 miles downstream, accessible by State Highway 4 and 150, 0.5 miles west of Steelville to bridge crossing the river.

CP3: 5.3 miles downstream; turn south off 150 on Chester Street to Williams Street; turn west at park, follow grave road access across railroad to bridge.

8. **LICK BRANCH**

Area: (b) (3), (b) (7)(F)

CP1: 4.0 miles downstream; turn north on Streamline Road off R150; north to stop sign and turn west on Blackstump Road to Lick Creek Road; turn north, follow gravel road to bridge.

9. **UNNAMED BRANCH OF MARYS RIVER**

Area: (b) (3), (b) (7)(F)

CP1: 3.2 miles downstream, accessible by gravel road off State Highway 154, 2.3 miles east of Sparta. Turn east on Moffett Road (only road between Eden Road and 153-154 split); 1.5 miles to second bridge.

CP2: 4.3 miles downstream, accessible by State Highway 154,

3.6 miles east of Sparta. Follow SH 154 to bridge crossing

of the river, just past Eden Road.

10. **GALUM CREEK**

Area: (b) (3), (b) (7)(F)

CP1: 1.3 miles downstream, accessible by gravel road off SH13, 2.0 miles east of Coulterville. Follow the gravel road 2.3 south to bridge crossing creek. (No road signs, bridge is at crossroads)

CP2: 2.4 miles downstream, accessible by gravel road off SH 13. 2.0 miles east of Coulterville Turn off SH 13 (south) on paved road, 3.2 miles to T in road and turn west.).5 miles to bridge.

CP3: 3.8 miles downstream, accessible by gravel road off SH 154. 2.0 miles east of Sparta. Turn east on Moffat Road and 5.6 miles to bridge.

11. **MUD CREEK**

Area: (b) (3), (b) (7)(F)

CP1: 1.5 miles downstream, accessible by Highway 12, 32.2 miles northeast of Coulterville. Follow highway to bridge crossing on creek.

12. **ELKHORM CREEK**

Area: (b) (3), (b) (7)(F)

PHMSA Sequence Number 100

CP1: 3.3 miles downstream, accessible by Highway 836. East out of Elkton on county highway 10; 0.8 miles to bridge.

13. **WILLIAMS CREEK**

Area: (b) (3), (b) (7)(F)

CP1: 1.5 miles downstream, 5.6 miles west of Nashville on Rt. 15 to County Road 21 (Oakdale Road); turn south, 2.4 miles to bridge.

14. **WILLOW CREEK**

Area: (b) (3), (b) (7)(F)

CP1: 1.7 miles downstream; west of Nashville on Route 15, 4.9 miles turn left on 13000 E (Elkendier School Road); 1.2 miles and turn east onto 11,000 N (Mockingbird Road); 2.1 miles to bridge.

CP2: 3.7 miles downstream, accessible by gravel road off of Highway 127. From Hoyleton take 177 west 4.0 miles, then south on Highway 127 1.4 miles; turn west off 127 onto Liberty School Road (13750 N), 3.2 miles to bridge.

15. **LITTLE CROOK CREEK**

Area: (b) (3), (b) (7)(F)

CP1: 3.0 miles downstream, accessible by gravel road. Take Highway 127 5.5 miles north from Nashville, turn west off 127 onto Liberty School Road (13750 N), 3.0 miles to bridge.

CP2: 5.4 miles downstream, accessible by highway 177. Take Highway 177 7.5 miles west of Hoyleton to bridge crossing the creek.

16. **COON CREEK**

Area: (b) (3), (b) (7)(F)

CP1: 1.2 miles downstream; take 177 2.3 miles west of Hoyleton to Dogwood Road (20500 E); 1.0 miles north to stopsign, turn west on Walnut Hill Road (16500 N); 0.5 miles to Coon Branch Road (20000 N); 1.6 miles north to bridge.

CP2: 2.8 miles downstream, accessible by Highway 127. Take Highway 177 from Hoyleton 4.9 miles west, then north 3.0 miles to bridge crossing the creek.

17. **CROOKED CREEK**

Area: (b) (3), (b) (7)(F)

CP1: 10.7 miles downstream, accessible by Highway 127. Take Highway 127 south of Corlyle to bridge crossing creek.

18. **PRAIRIE CREEK**

Area: (b) (3), (b) (7)(F)

CP1: 0.6 miles downstream, accessible by gravel road. Take Highway 161 west 6.1 miles from Centralia, then north on gravel road 0.6 miles to a bridge crossing the creek.

CP2: 0.8 miles downstream; west on Rt. 50 to Huey Rd; south on Huey Rd, 5.4 miles south to bridge.

CP3: 3.5 miles downstream, accessible by gravel road. Take Highway 161 west 8.3 miles from Centralia (through Hoffman) to 2170 E. Turn north 1 mile to T, turn left 0.1 mile to bridge.

19. **LOST CREEK**

Area: (b) (3), (b) (7)(F)

CP1: 2.0 miles downstream, accessible by gravel road. Take Highway 161 west of Centralia 2.8 miles to Shattuc Road; turn north 4.0 miles to 1200 N and turn west, 2.0 miles to bridge.

CP2: 2.4 miles downstream, from CP1 above, west to 2500 E; turn south to bridge.

20. **COLES CREEK**

Area: (b) (3), (b) (7)(F)

CP1: 1.3 miles downstream, accessible by gravel road. Take Highway 50 west to 2700 E (Shattuc Road); north 1.8 miles to bridge.

CP2: 2.6 miles downstream, accessible by gravel road. Take Highway 50 west to 2600 E (Ladue Road); north 2.1 miles to bridge.

PHMSA Sequence Number 100

CP3: 1.9 miles downstream; take Highway 50 west to 2500 E. north 1.9 miles to bridge.

21. **KASKASKIA RIVER**

Area: (b) (3), (b) (7)(F)

CP1: 0.8 miles downstream, accessible by gravel road. From

Patoka Station take Hwy. 51 south 4.0 miles to 1700 N

(Wisher Road); turn west 2.2 miles to 000E (Meridian

Road); turn south 1.3 miles to bridge.

CP2: 2.9 miles downstream, accessible by gravel road. From Patoka Station, Hwy 51 south 4.0 miles to 1700 N (Wisher Road), west 2.2 miles to 000E (Meridian Road) across onto 2100 N (Sharp Road); follow gravel/dirt road to bridge.

CP3: 7.7 miles downstream, accessible by gravel road. From Patoka Station take Hwy 51 south 4.0 miles to 1700 N (Wisher Road); west 2.2 miles to 000E (Meridian Road); south 1.7 miles to 1930 N (Ducomb Road); west 1.0 miles to stop sigh; turn north on 2900 N (Diamond Springs Road); 2.5 miles to 2680 E; north 1.0 mile to bridge.

22. **LOUSE RUNE**

Area: (b) (3), (b) (7)(F)

CP1: 2.7 miles downstream, accessible by gravel road. Take Highway 51 south out of Patoka 1.5 miles, then west on 1800 N (Brintt Road) 2.2 miles, then south 0.6

miles on 000E (Meridian Road) to bridge crossing the run.

CP2: 4.8 miles downstream, accessible by gravel road. Take Highway 51 south out of Patoka 1.5 miles, then west on 1800 N (Brint Road) 3.4 miles, then south 0.2 miles on 2900 E (Crowder Road) to bridge crossing the run.

23. **DEER CREEK**

Area: (b) (3), (b) (7)(F)

CP1: 0.5 miles downstream, accessible by Highway 51. Go south 1. miles from Patoka Station to bridge crossing the creek.

24. **NORTH FORK**

Area: (b) (3), (b) (7)(F)

CP1: 0.5 miles downstream, accessible by gravel road. Take Highway 51 south from Patoka Station 0.8 miles, then west 0.2 miles on 2000 N (Boat Dock Road), then north on 250 E (Willet Road) 0.6 miles to a bridge crossing the fork.

CP2: 3.5 miles downstream, accessible by paved road. Take Highway 51 south from Patoka Station 0.8 miles, then west 3.0 miles on a gravel road, then south 1.0 miles on the 000E (Murray Road) to a bridge crossing the fork.

Region Five-Mustang

A. **Lockport to Patoka 18" (Mustang Pipeline) (EOM-64)**

Environmental Sensitive Area 25 (E25)

Area E25 encompasses Flat Creek located at [redacted]. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kaskaskia River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 26 (E26)

Area E26 encompasses Richland Creek located at M[redacted]. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kaskaskia River Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 27 (E27)

Area E27 encompasses Hickory Creek located at [redacted]. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kaskaskia River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 28 (E28)

Area E28 encompasses Camp Creek located at [redacted]. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kaskaskia River Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 29 (E29)

Area E29 encompasses Linn Creek located at [redacted] The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kaskaskia River Area.

(b) (3), (b) (7)(F)

Environmental Sensitive Area 30 (E30)

Area E30 encompasses Suck Creek located at (b) (3), (b) (7)(F). The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kaskaskia River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 31 (E31)

Area E31 encompasses Big Creek located at (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kaskaskia River Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 32 (E32)

Area E32 encompasses Kaskaskia River located (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kaskaskia River Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 33 (E33)

Area E33 encompasses Mitchell Creek located at (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kaskaskia River Area.

Five CP's as shown are accessible by road.

Environmental Sensitive Area 34 (E34)

Area E34 encompasses Robinson Creek located at [redacted] The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kaskaskia River Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 35 (E35)

Area E35 encompasses Swafford Creek located at [redacted]0. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kaskaskia River Area.

One CP's as shown are accessible by road.

Environmental Sensitive Area 36 (E36)

Area E36 encompasses Robinson Creek located at M[redacted]The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kaskaskia River Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 37 (E37)

Area E37 encompasses Wilborn Creek located at [redacted]9, West Okaw river State fish & Wildlife Management Area, Okaw river feeder MP-[redacted], Marrowbone Creek[redacted]. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the West Okaw River State Fish & Wildlife Management Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 38 (E38)

Area E38 encompasses West Okaw River located at [redacted]. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the West Okaw River State Fish & Wildlife Management Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 39 (E39)

Area E39 encompasses Strington Branch located at [redacted]4. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the West Okaw River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 40 (E40)

Area E40 encompasses Okaw river located at M[redacted]. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the West Okaw River Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 41 (E41)

Area E41 encompasses Drainage Ditch #3 located at M[redacted]. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the West Okaw River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 42 (E42)

Area E42 encompasses Drainage Ditch #4 located at [redacted]. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the West Okaw River Area.

Four CP's as shown are accessible by road.

Environmental Sensitive Area 43 (E43)

Area E43 encompasses Hammond Mutual Ditch located at (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the West Okaw River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 44 (E44)

Area E44 encompasses Lake Fork Feeders located at (b) (3), (b) (7)(F) [redacted] The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Lake Fork Special Area.

Six CP's as shown are accessible by road.

Environmental Sensitive Area 45 (E45)

Area E45 encompasses Camp Creek located at (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Lake Fork Special Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 46 (E46)

Area E46 encompasses Sangamon River located at (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Sangamon River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 47 (E47)

Area E47 encompasses Sangamon River Feeder located at (b) (3), (b) (7)(F)
The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Sangamon River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 48 (E48)

Area E48 encompasses Sangamon River Feeder located at (b) (3), (b) (7)(F).
The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Sangamon River Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 49 (E49)

Area E49 encompasses Sangamon River Feeder located at (b) (3), (b) (7)(F)0.
The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Sangamon River Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 50 (E50)

Area E50 encompasses Sangamon River Feeder located at M(b) (3), (b) (7)(F)
The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Sangamon River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 51 (E51)

Area E51 encompasses Sangamon River Feeder located at (b) (3), (b) (7)(F) 2. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Sangamon River Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 52 (E52)

Area E52 encompasses Drummer Creek located at (b) (3), (b) (7)(F) 21. The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Sangamon River Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 53 (E53)

Area E53 encompasses Dickerson Slough located at (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Sangamon River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 54 (E54)

Area E54 encompasses Dickerson Slough located at (b) (3), (b) (7)(F). The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Sangamon River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 55 (E55)

Area E55 encompasses Big Four Ditch Feeders located at (b) (3), (b) (7)(F) [redacted] The Control Points (CP) as shown on the attached Drawing EOM-64 have

been designed to prevent or minimize damage to the Big Four Ditch Area.

Five CP's as shown are accessible by road.

Environmental Sensitive Area 56 (E56)

Area E56 encompasses Vermilion River located (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Vermilion River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 57 (E57)

Area E57 encompasses Vermilion River located at (b) (3), (b) (7)(F) he Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Vermilion River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 58 (E58)

Area E58 encompasses The North Fork Vermilion River located (b) (3), (b) (7)(F) . The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Vermilion River Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 59 (E59)

Area E59 encompasses Kelley Creek located at (b) (3), (b) (7)(F). The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kelley Creek Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 60 (E60)

Area E60 encompasses Kelley Creek located at (b) (3), (b) (7)(F) [redacted] The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kelley Creek Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 61 (E61)

Area E61 encompasses West Branch Horse Creek located at (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kelley Creek Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 62 (E62)

Area E62 encompasses Crane Creek located at (b) (3), (b) (7)(F) [redacted] The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Crane Creek Area.

Five CP's as shown are accessible by road.

Environmental Sensitive Area 63 (E63)

Area E63 encompasses Granary Creek (b) (3), (b) (7)(F). The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Granary Creek Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 64 (E64)

Area E64 encompasses Horse Creek located at MP (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Horse Creek Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 65 (E65)

Area E65 encompasses Kankakee River located at (b) (3), (b) (7)(F). The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Kankakee River Area.

Three CP's as shown are accessible by road. (b) (3), (b) (7)(F)

Environmental Sensitive Area 66 (E66)

Area E66 encompasses Forked Creek located (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Forked Creek Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 67 (E67)

Area E67 encompasses Jordan Creek located at (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Jordan Creek Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 68 (E68)

Area E68 encompasses Prairie Creek located (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Prairie Creek Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 69 (E69)

Area E69 encompasses Jackson Creek located (b) (3), (b) (7)(F) The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Jackson Creek Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 70 (E70)

Area E70 encompasses Jackson Branch located at (b) (3), (b) (7)(F). The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Jackson Creek Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 71 (E71)

Area E71 encompasses Hickory Branch located at (b) (3), (b) (7)(F). The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Hickory Creek Area.

Two CP's as shown are accessible by road.

Environmental Sensitive Area 72 (E72)

Area E72 encompasses Spring Creek located at (b) (3), (b) (7)(F). The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Spring Creek Area.

Three CP's as shown are accessible by road.

Environmental Sensitive Area 73 (E73)

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Area E73 encompasses Fiddyment Creek located (b) (3), (b) (7)(F). The Control Points (CP) as shown on the attached Drawing EOM-64 have been designed to prevent or minimize damage to the Fiddyment Creek Area.

Four CP's as shown are accessible by road.

PHMSA Sequence Number 848

Section 2. Operations Covered By Plan

In This Section

PHMSA Sequence Number 848

OPERATIONS COVERED BY PLAN

ExxonMobil Pipeline System

EMPCo's operations cover eleven states (Arkansas, Connecticut, Illinois, Louisiana, Maine,, Michigan, Mississippi, Missouri, Montana, Rhode Island, and Texas). These operations are divided into eleven response zones (including LPG and Chemical Operations). EMPCo Field Operations Management, Engineering, and Safety, Health and Environment (SHE) Departments are located in Houston, Texas, while Field Operations and maintenance personnel are located in field offices within the response zones. Figure 1-1, which is located in Section 1.0, shows the locations of EMPCo facilities and response zones. Addresses of field offices for response zones are provided in Table 2-1.

The stations operated by EMPCo consist primarily of breakout tankage and manifolding, sampling, and pumping facilities. EMPCo Distribution Terminals operate barge, truck and rail operations which are covered by USCG and EPA Jurisdictional Facility Response Plans (FRP) and in some case also address DOT regulations when applicable.

EMPCo may also be an “episodic” generator of hazardous waste, in most cases a “small quantity generator” or “conditionally exempt small quantity generator”.

The EMPCo system transports crude oil, refined products, highly volatile liquids, liquefied petroleum gases, and chemicals. The principle commodities transported by EMPCo pipeline systems are:

Acetone	Gasoline
Benzene	Heating oil
Butadiene (crude and product)	Natural gas liquids (NGL)
Butane (normal and Iso)	Nitrogen
Butylene (Including Mixed)	Oxygen
Condensate (sweet and sour)	Pentane
Crude oil (sweet, intermediate and sour)	Propane
Diesel fuel	Propylene (Dilute, Chem., Poly)
Distillate - heavy plant (HPD)	Raffinate
Distillate - light plant (LPD)	Resins

Ethane	T-Butyl alcohol (TBA)
Ethane/Propane Mix	Turbo fuel (TFA-1)
Ethylene	Varsol
Fuel oil	

A summary of the characteristics and potential hazards of each of these commodities is provided in Table 2-2.

Response Zones

General descriptions of EMPCo's eleven response zones are provided below. LPG/Chemical pipeline sections are also listed in Tables 1-2A and 1-2B. Additional information on the individual response zone operations is provided in the respective Response Zone Appendices (Volume 2).

Beaumont Zone

The Beaumont Zone includes 8 pipeline sections within the primary geographic response area. All of the pipelines are dedicated to transporting crude oil, fuel oil, gasoline, and jet fuel. There are approximately 890 miles of pipelines ranging from 6 to 16 inches in diameter. The worst case discharge has been calculated at [redacted] of gasoline resulting in a break in the Hebert to Hearne 12" Products line in Liberty County, TX.

Corpus Christi Zone

The Corpus Christi Zone includes 3 pipeline sections with the potential to cause "significant and substantial environmental harm". The pipeline sections are dedicated to the transportation of crude oil. There are approximately 125 miles of pipelines ranging from 4 to 10 inches in diameter. The worst case discharge has been calculated at [redacted] of crude oil resulting from a [redacted].

Corsicana Zone

The Corsicana Zone includes 10 pipeline sections within the primary geographic response area. The pipelines are dedicated to transporting crude oil and refined products. There are over 1043 miles of pipelines ranging from 8 to 22 inches in diameter. The worst case discharge has been calculated at [redacted] of crude oil resulting in a break in the Patoka to Corsicana 20-inch line.

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Bayport/Mid-Tex Zone

The Mid-Tex Zone includes 23 pipeline sections with the potential to cause "significant and substantial environmental harm". The pipeline sections are dedicated to the transportation of crude oil and refined products. The pipelines in this section range from 4 to 26 inches in diameter. The worst case discharge has been calculated at (b) (7)(F), of gasoline resulting from a (b) (3), (b) (7)(F)

Midwest Zone

The Mid West Zone includes 5 pipeline sections within the primary geographic response area with a potential to cause “significant and substantial environmental harm”. All of the pipelines are dedicated to transporting crude oil and refined products. There are approximately 1450 miles of pipelines ranging from 16 to 30 inches in diameter. The worst case discharge has been calculated at (b) (7)(F), (b) (3) from a (b) (3), (b) (7)(F) .

Montana Zone

The Montana Zone includes 4 pipeline sections with the potential to cause "significant and substantial environmental harm". These sections are approximately 70 miles in length and all are 12 inches in diameter. Montana worst case discharge has been calculated at (b) (7)(F), (b) (3) of crude oil (b) (3), (b) (7)(F)

New England Zone

The New England Zone consists of a single pipeline section within the primary geographic response area. The pipeline is dedicated to transporting refined products (gasoline and fuel oil). There are approximately 85 miles of 6-inch diameter pipeline. The worst case discharge has been calculated at (b) (7)(F), (b) of fuel oil resulting from a break of the pipeline in (b) (3), (b) (7)(F) .

Raceland Zone

The Raceland Zone includes 15 pipeline sections with the potential to cause "significant and substantial environmental harm". These approximately 231 miles of pipeline range from 8 to 24 inches in diameter. The worst case discharge has been calculated to be (b) (7)(F), (b) (3) of crude oil resulting from a (b) (3), (b) (7)(F)

SW Louisiana Zone

The SW Louisiana Zone consists of 16 pipeline sections or gathering systems with the potential to cause "significant and substantial environmental harm". These approximately 896

miles of pipeline transport crude oil and distillates that range from 4 to 24 inches in diameter. The Worst Case Discharge has been calculated at (b) (7)(F), (b) (3) of crude oil (b) (3), (b) (7)(F) [redacted]

Louisiana LPG/Chemical Zone (non-OPA 90)

The Louisiana LPG/Chemical Zone includes 43 pipeline segments in the primary geographic response area. This response zone plan also addresses part of a pipeline sections which extends into another geographic area known as the Sunset operating area. These pipelines are dedicated to transporting LPG's, HVL's, and chemicals. There are approximately 518 miles of pipelines ranging from 4 to 12 inches in diameter.

Texas LPG/Chemical Zone (non-OPA 90)

The Texas LPG/Chemical Zone includes 95 pipeline segments in the primary geographic response area. This response zone plan also addresses 1 pipeline section which is located in another geographic area known as the Corsicana operating area, and 3 pipeline sections located in the geographic area known as the Corpus Christi operating area. These pipelines are dedicated to transporting LPG's, HVL's, and chemicals. There are approximately 1,102 miles of pipelines ranging from 3 to 16 inches in diameter.