

Tactical Response Plan Straits of Mackinac

Version 2.0

December 15, 2014



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**Straits of Mackinac
Tactical Response Plan**

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Straits of Mackinac Tactical Response Plan

SECTION 1: PLAN INTRODUCTION

1.1 Purpose and Scope of Plan

This Tactical Response Plan (TRP) is prepared for Enbridge operations along the Straits of Mackinac including nearby Lake Huron and Lake Michigan. The purpose of this TRP is to provide Enbridge with a response plan to provide the necessary information to respond quickly and effectively to an incident, which may occur at or near the pipeline crossing. The TRP is developed to maximize the protection of the public's health and safety, and environmentally sensitive areas that could potentially be affected.

The Tactical Response Plan covers the following:

Section 2: Emergency Response

This section was prepared after conducting field surveys to identify pre-designated response sites and strategies to cover any potentially affected downstream waterway from the facility. The plan designates 59 response sites near the Straits of Mackinac. These response sites were identified to include the following: strategy map, detailed site information with photographs, and an ICS 204 field work assignment list with required resources.

Appendix

This section lists Equipment Totals by Division, Staging Area Overview Maps, Emergency Response Vendors, Enbridge Response Equipment Inventory, Mackinac Island Vehicle Permit Application and Fees, and Point La Barbe Survey Plot.

Plan Distribution List

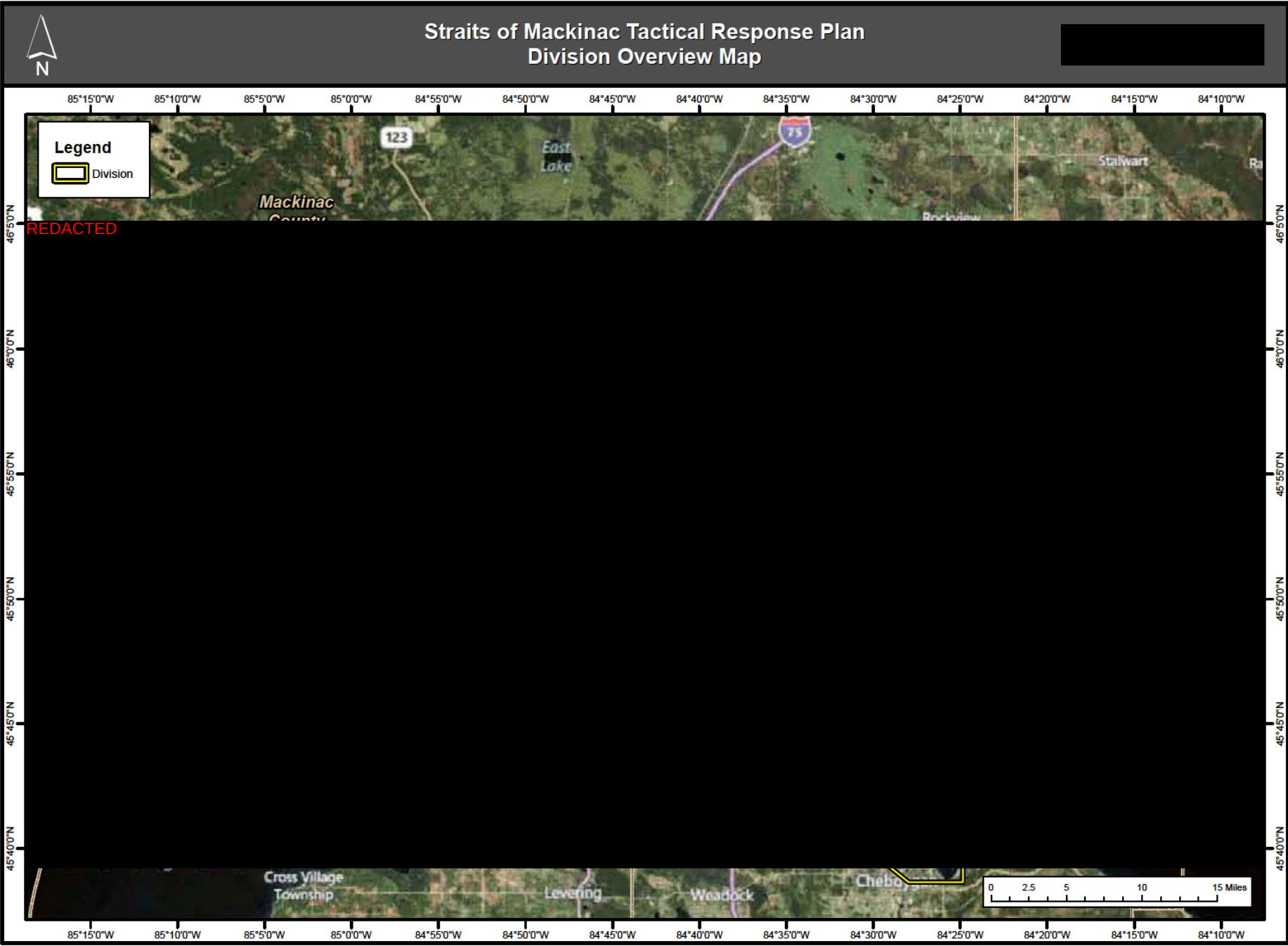
An updated Distribution list is maintained on the Emergency and Security Management SharePoint site. To request a copy contact REDACTED

* Note: This TRP is a reference tool and is intended to provide guidance during an actual event, or exercise. Placement of resources may need to be adjusted according to environmental variables and conditions at the time of the event. It is the responsibility of emergency response personnel to be trained in oil spill response and to be able to make adjustments to the TRP as needed.



**Straits of Mackinac
Tactical Response Plan**

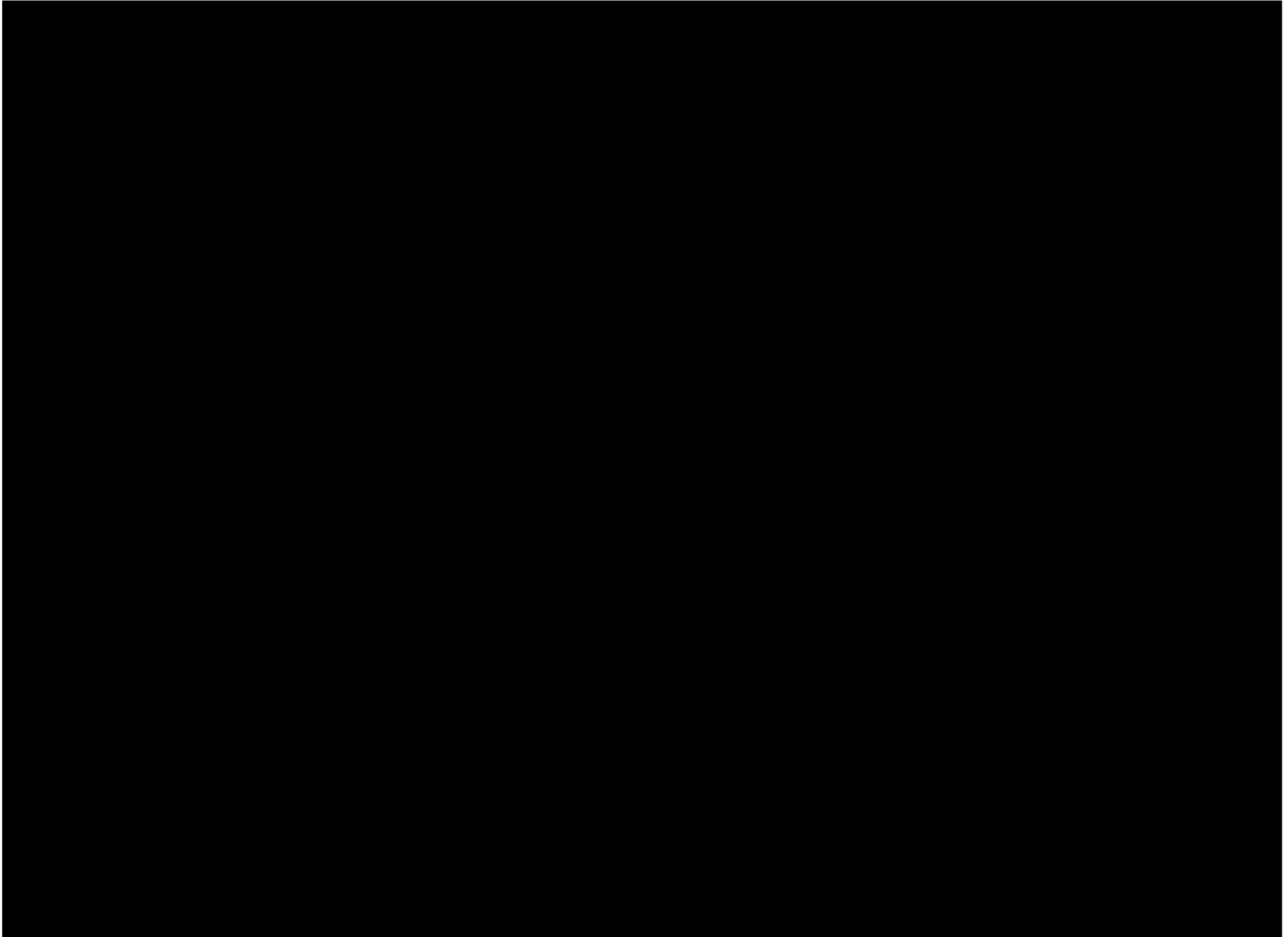
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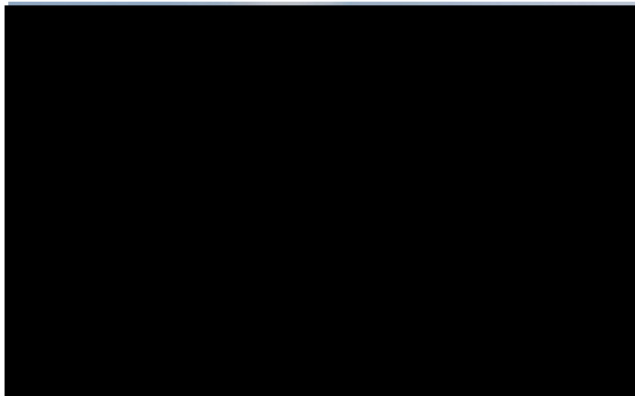
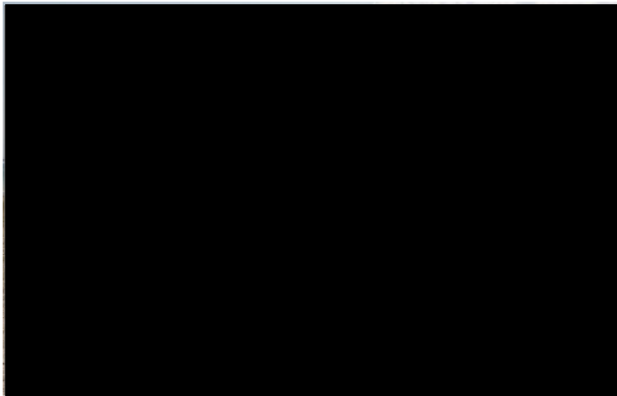
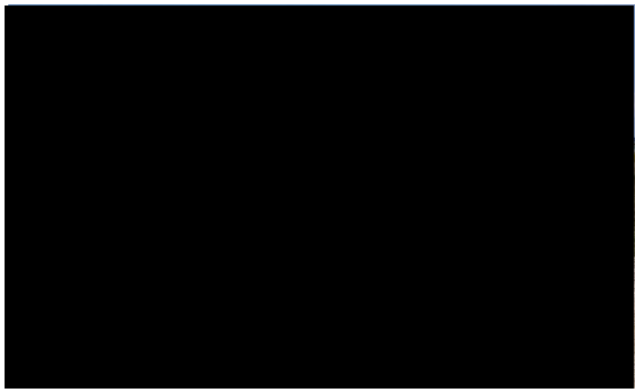
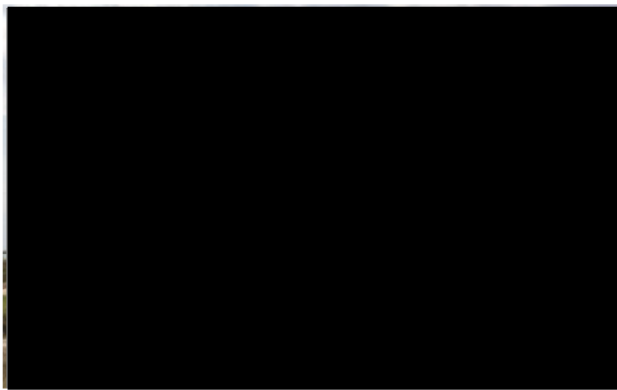


*Straits of Mackinac
Tactical Response Plan*

Northwest Straits Division				
Site ID	Name	Drainage System	Type of Site	Distance From Source
NWST-1	[REDACTED]	Lake Michigan	Recovery/ Staging	At Site
NWST-2	[REDACTED]	Lake Michigan	Recovery	At Site
NWST-3	[REDACTED]	Lake Michigan	Recovery/ Protection	5.2 miles
NWST-4	[REDACTED]	Poupard Bay/ Lake Michigan	Protection	6.3 miles
NWST-5	[REDACTED]	Point aux Chenes Bay/ Lake Michigan	Protection	9.5 miles
NWST-6	[REDACTED]	Lake Michigan	Protection	12.5 miles
NWST-7	[REDACTED]	Lake Michigan	Staging	21.5 miles
Gray highlight = potential staging area				



		Site Number: NWST-1 (CP 1477- 0.0) Site Name: [REDACTED]	
		Division: Northwest Straits Division	
SITE INFORMATION			
Type of Site: Recovery/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Gravel boat ramp at site may be accessible for launching small boats and resupplying vessels. Use caution while boating due to rocks. Collection area is along [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: 700' X 50'	
Nearest Pipeline Crossing & Distance: Line 5 (At Site)		Nearest Boat Ramp & Distance: Dock 3 Park Boat Ramp ~5.5 Miles Gravel Boat Ramp at site (may be used for small boats)	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Rocks		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: Gravel Parking
ACCESS INFORMATION			
Type of Access: Road, Boat, ATV	Road Type: Light Duty	Road Surface: Gravel/Dirt	Access Location: North Shoreline Lake Michigan
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

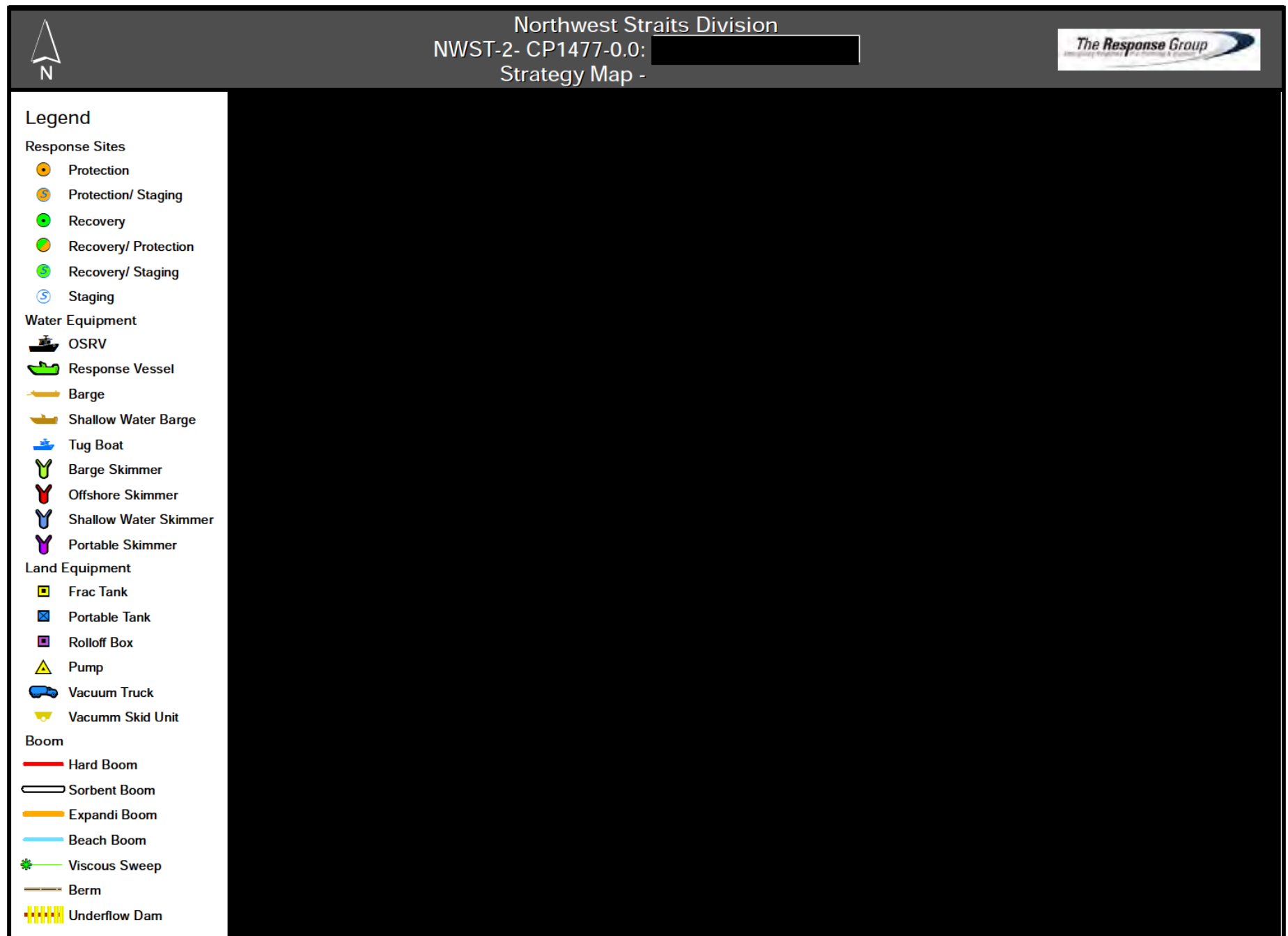
		<u>Site Number:</u> NWST-1 (CP 1477- 0.0) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northwest Straits Division
SITE PHOTOGRAPHS		
		
<u>1. Collection Area (Looking Southeast)</u>		<u>2. Islands (Looking South)</u>
		
<u>3. Staging Area (Looking East)</u>		<u>4. Beach Sign (Looking South)</u>
RESPONSE INFORMATION		
Deployment Strategy: Recovery/Staging	High Water: Booming	Low Water: Booming
Boom Required: 1200' HB, 9400' SB	Recovery Method: Skimmer, Debris	Tank Truck Access: Yes (Extra hose required)
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: NWST-1: [REDACTED]		
Approved By Signature:				
Assignments				
1.) Deploy 2000', 800' and 4000' of sorbent boom around the three islands to the west of [REDACTED] as shown on the associated strategy map. 2.) From the southern tip of [REDACTED], deploy 1400' of sorbent boom to the west. 3.) From the southern tip of [REDACTED] deploy 400' of hard boom south into the water to create a collection area along the south cove of [REDACTED]. 4.) Deploy a response boat with a shallow water skimmer to collect spilled material in the southern collection point. 5.) From the northern tip of [REDACTED], deploy 1200' of sorbent boom along the cove to the south. 6.) From the Northern tip of [REDACTED] deploy 3-400' sections of staggered hard boom to the shoreline at [REDACTED]. 7.) From the western end of the sorbent boom, deploy 200' of hard boom into the channel to create a collection area in the cove. 8.) Deploy a response boat with a shallow water skimmer to collect spilled material in the northern collection point. 9.) Establish site as a staging area. 10.) Maintain site integrity over the course of the response. 11.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NWST-1: [REDACTED]	Boom	Hard Boom	1800 feet	18 inch(es)
NWST-1: [REDACTED]	Boom Accessories	Anchor Stakes	100 each	
NWST-1: [REDACTED]	Boom Accessories	Boom Anchors	24 each	40 pound(s)
NWST-1: [REDACTED]	Manpower: Operator	Boat Operator	14 each	
NWST-1: [REDACTED]	Manpower: Responder	Responder	30 each	
NWST-1: [REDACTED]	Security Guard	Security Guard	2 each	
NWST-1: [REDACTED]	Skimmer	Shallow Water Skimmer	2 each	
NWST-1: [REDACTED]	Sorbent: Boom	Sorbent Boom	9400 feet	5 inch(es)
NWST-1: [REDACTED]	Vessel	Response Vessel	2 each	20 feet
NWST-1: [REDACTED]	Vessel	John Boat	10 each	14
Tactical Objective				
Prevent spilled material from impacting the shoreline. Collect spill material to the extent possible. Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
NWST-1 is located at the [REDACTED], ~0.0miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/2/2012 09:06	Page 1 of 1	© 1997-2012 dbSoft, Inc.

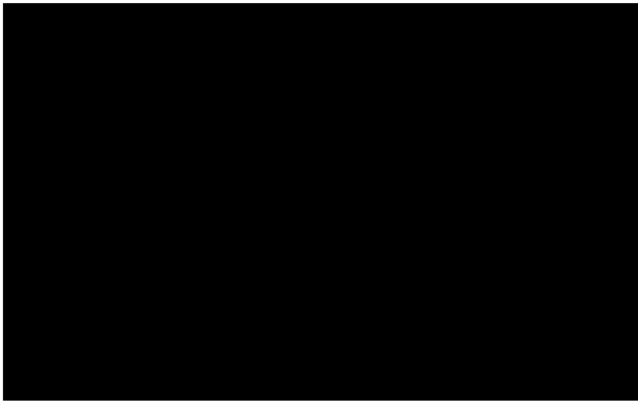
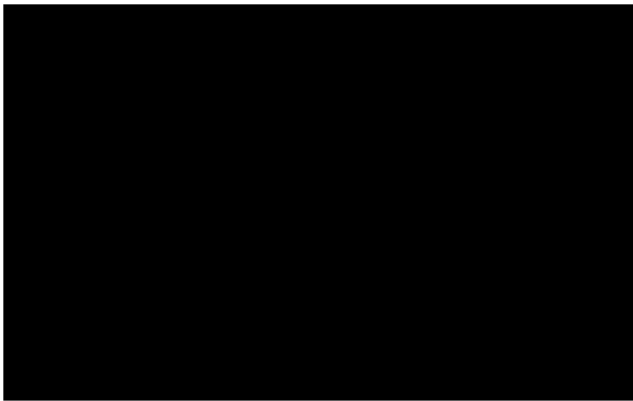
		Site Number: NWST-2 (CP 1477- 0.0) Site Name: [REDACTED]	
		Division: Northwest Straits Division	
SITE INFORMATION			
Type of Site: Recovery	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Vacuum truck access during dry conditions. Very shallow in the cove.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: 700' X 50'	
Nearest Pipeline Crossing & Distance: Line 5 (At Site)		Nearest Boat Ramp & Distance: Dock 3 Park Boat Ramp ~5.75 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Rocks		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: Gravel Parking
ACCESS INFORMATION			
Type of Access: Road, Boat, ATV	Road Type: Light Duty	Road Surface: Gravel/Dirt	Access Location: North Shoreline Lake Michigan
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

		<u>Site Number:</u> NWST-2 (CP 1477- 0.0) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northwest Straits Division	
SITE PHOTOGRAPHS			
			
1. Collection Cove (Looking West)		2. Roadway into Cove Area (Looking East)	
RESPONSE INFORMATION			
Deployment Strategy: Recovery	High Water: Booming	Low Water: Booming	
Boom Required: 2400' SB	Recovery Method: Skimmer, Vac Truck, Debris	Tank Truck Access: Yes (Extra hose required) Dry conditions	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: NWST-2 [REDACTED] (CP 1477-0.1)		
Approved By Signature:				
Assignments				
1.) Deploy 2400' sorbent boom along the shoreline of [REDACTED]. 2.) Deploy a response boat with a shallow water skimmer to collect spilled material. 3.) Deploy a vacuum truck to collect spilled material. 4.) Stage roll off box to store collected oiled debris.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NWST-2: [REDACTED]	Manpower: Operator	Boat Operator	1 each	
NWST-2: [REDACTED]	Manpower: Operator	Vacuum Truck Operator	1 each	
NWST-2: [REDACTED]	Manpower: Responder	Responder	10 each	
NWST-2: [REDACTED]	Skimmer	Shallow Water Skimmer	1 each	
NWST-2: [REDACTED]	Sorbent: Boom	Sorbent Boom	2400 feet	5 inch(es)
NWST-2: [REDACTED]	Storage: Solid	Roll Off Box	1 each	30 cubic yard(s)
NWST-2: [REDACTED]	Vacuum Truck	Vacuum Truck	1 each	70 barrel(s)
NWST-2: [REDACTED]	Vessel	Response Vessel	1 feet	20 feet
Tactical Objective				
Prevent spilled material from impacting the shoreline. Collect spill material to the extent possible. Manage a coordinated response effort.				
Location of Work				
NWST-2 is located just west of [REDACTED], ~0.0 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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		Site Number: NWST-3 (CP 1477- 5.2) Site Name: [REDACTED]	
		Division: Northwest Straits Division	
SITE INFORMATION			
Type of Site: Recovery	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Very shallow in the cove. Natural collection area in the pocket of [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~5.2 Miles)		Nearest Boat Ramp & Distance: Dock 3 Park Boat Ramp ~12 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris): Rocks		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Slight	Bank Height: ~4'	Existing Facilities: Boat Dock
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Light Duty	Road Surface: Gravel/Dirt	Access Location: North Shoreline Lake Michigan
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

		<u>Site Number:</u> NWST-3 (CP 1477- 5.2) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northwest Straits Division	
SITE PHOTOGRAPHS			
			
1. Collection Cove (Looking Northwest)		2. Collection Cove (Looking North)	
			
3. Collection Cove (Looking West)			
RESPONSE INFORMATION			
Deployment Strategy: Recovery	High Water: Sorbent Booming	Low Water: Sorbent Booming	
Boom Required: 3500' SB	Recovery Method: Skimmer, Debris	Tank Truck Access: No	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: NWST-3: [REDACTED] (CP 1477-5.2)		
Approved By Signature:				
Assignments				
1.) Deploy 3500' sorbent boom along the shoreline on the eastern edge of the southern point on [REDACTED] 2.) Deploy a response boat with a shallow water skimmer to collect spilled material.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NWST-3: [REDACTED] (CF)	Boom Accessories	Anchor Stakes	35 each	
NWST-3: [REDACTED] (CF)	Manpower: Operator	Boat Operator	4 each	
NWST-3: [REDACTED] (CF)	Manpower: Responder	Responder	12 each	
NWST-3: [REDACTED] (CF)	Skimmer	Shallow Water Skimmer	1 each	
NWST-3: [REDACTED] (CF)	Sorbent: Boom	Sorbent Boom	3500 feet	5 inch(es)
NWST-3: [REDACTED] (CF)	Vessel	Response Vessel	4 each	20 feet
Tactical Objective				
Prevent spilled material from impacting the shoreline. Collect spill material to the extent possible. Manage a coordinated response effort.				
Location of Work				
NWST-3 is located on the eastern edge of the southern point on [REDACTED], ~5.2 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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		Site Number: NWST-4 (CP 1477- 6.3) Site Name: [REDACTED]	
		Division: Northwest Straits Division	
SITE INFORMATION			
Type of Site: Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Very shallow in the cove. Located on the north shoreline at Poupard Bay. Access is available from the shoreline to deploy equipment.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~6.3 Miles)		Nearest Boat Ramp & Distance: Dock 3 Park Boat Ramp ~12.25 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake/Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Slight	Bank Height: ~3'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Road, Boat, ATV	Road Type: Light Duty	Road Surface: Gravel/Dirt	Access Location: North Shoreline Lake Michigan/ Poupard Bay
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

		<u>Site Number:</u> NWST-4 (CP 1477- 6.3) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northwest Straits Division	
SITE PHOTOGRAPHS			
<u>1. Beach Shoreline Residences (Looking Northeast)</u>		<u>2. Shoreline (Looking Northeast)</u>	
<u>3. Beach Shoreline Residences (Looking Northeast)</u>			
RESPONSE INFORMATION			
Deployment Strategy: Protection	High Water: Sorbent Booming	Low Water: Sorbent Booming	
Boom Required: 2300' SB, 2300' VS	Recovery Method: Debris	Tank Truck Access: No	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: NWST-4: [REDACTED] (CP 1477-6.3)		
Approved By Signature:				
Assignments				
1.) Deploy 2300' viscous sweep along the shoreline to the west of [REDACTED] 2.) Deploy 2300' of sorbent boom along the shoreline on the inland side of the viscous sweep.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NWST-4: [REDACTED]	Boom Accessories	Anchor Stakes	50 each	
NWST-4: [REDACTED]	Manpower: Responder	Responder	6 each	
NWST-4: [REDACTED]	Sorbent: Boom	Sorbent Boom	2300 feet	5 inch(es)
NWST-4: [REDACTED]	Viscous Sweep	Viscous Sweep	2300 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline. Manage a coordinated response effort.				
Location of Work				
NWST-4 is located to the west of [REDACTED] and [REDACTED], ~6.3 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:32	Page 1 of 1	© 1997-2012 dbSoft, Inc.

		Site Number: NWST-5 (CP 1477- 9.5) Site Name: [REDACTED]	
		Division: Northwest Straits Division	
SITE INFORMATION			
Type of Site: Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Very shallow in the cove. Located on the north shoreline at Poupard Bay. Access is possible from the shoreline to deploy equipment.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~9.5 Miles)		Nearest Boat Ramp & Distance: Dock 3 Park Boat Ramp ~15.75 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake/Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Slight	Bank Height: ~3'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Light Duty	Road Surface: Gravel/Dirt	Access Location: North Shoreline Lake Michigan/ Poupard Bay
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

		<u>Site Number:</u> NWST-5 (CP 1477- 9.5) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northwest Straits Division
SITE PHOTOGRAPHS		
1. Collection Cove (Looking South)		2. Collection Cove (Looking South)
3. Collection Cove Beach Area (Looking Southeast)		
RESPONSE INFORMATION		
Deployment Strategy: Protection	High Water: Sorbent Booming	Low Water: Sorbent Booming
Boom Required: 9000' SB, 9000' VS	Recovery Method: Debris	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force:	NWST-5: [REDACTED]	(CP 1477)
Approved By Signature:				
Assignments				
1.) Deploy 9000' viscous sweep along the shoreline to the east of [REDACTED] 2.) Deploy 9000' of sorbent boom along the shoreline on the inland side of the viscous sweep.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NWST-5: [REDACTED]	ATV	ATV	5 each	
NWST-5: [REDACTED]	Boom Accessories	Anchor Stakes	200 each	
NWST-5: [REDACTED]	Manpower: Responder	Responder	20 each	
NWST-5: [REDACTED]	Sorbent: Boom	Sorbent Boom	9000 feet	5 inch(es)
NWST-5: [REDACTED]	Viscous Sweep	Viscous Sweep	9000 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline. Manage a coordinated response effort.				
Location of Work				
NWST-5 is located to the south of the intersection at [REDACTED], ~9.5 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:32	Page 1 of 1	© 1997-2012 dbSoft, Inc.

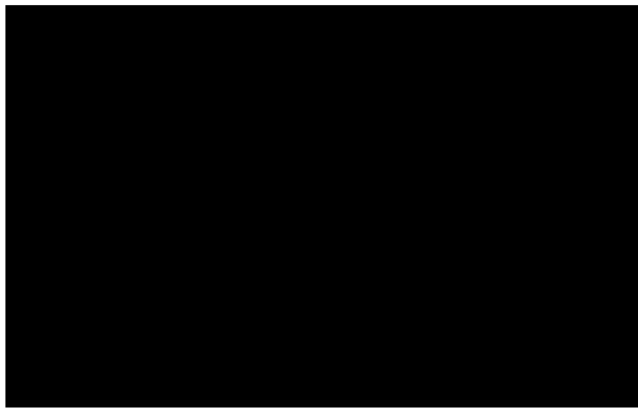
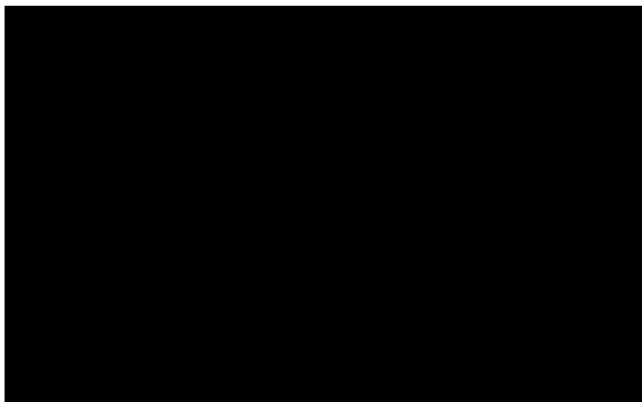
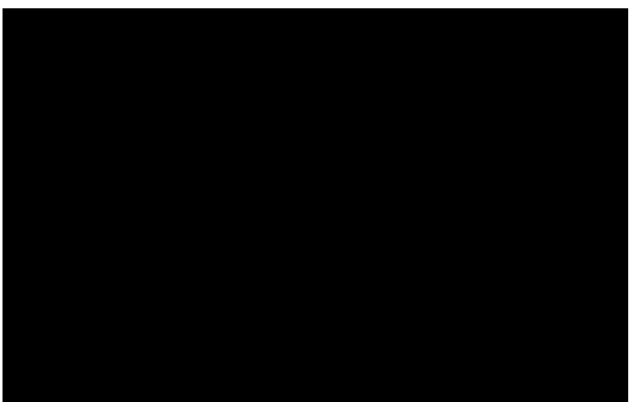
		Site Number: NWST-6 (CP 1477- 12.5) Site Name: [REDACTED]	
		Division: Northwest Straits Division	
		SITE INFORMATION	
Type of Site: Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Very shallow near the shoreline. Use caution along the sand areas. Equipment may be deployed from the shoreline.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Nearby Sensitivities: N/A		Land Use: Recreational	
Nearest Pipeline Crossing & Distance: Line 5 (~12.5 Miles)		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~12.5 Miles)		Nearest Boat Ramp & Distance: Dock 3 Park Boat Ramp ~20.25 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand	Bank Slope: Slight	Bank Height: ~3'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Road, Boat, ATV	Road Type: Unimproved	Road Surface: Sand	Access Location: North Shoreline Lake Michigan
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

	<u>Site Number:</u> NWST-6 (CP 1477- 12.5) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northwest Straits Division	
SITE PHOTOGRAPHS		
1. [REDACTED] (Looking Northwest)	2. Beach Area (Looking West)	
3. [REDACTED] (Looking West)	4. [REDACTED] Bridge Crossing (Looking Northwest)	
RESPONSE INFORMATION		
Deployment Strategy: Protection	High Water: Sorbent Booming	Low Water: Sorbent Booming
Boom Required: 4000' SB, 4000' VS	Recovery Method: Debris	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: NWST-6: [REDACTED] (CP 1477-12.5)		
Approved By Signature:					
Assignments					
1.) Deploy 4000' viscous sweep along the shoreline to the south of the mouth of the [REDACTED] 2.) Deploy 4000' of sorbent boom along the shoreline on the inland side of the viscous sweep.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
NWST-6: [REDACTED] (CP 14)	Boom Accessories	Anchor Stakes	80 each		
NWST-6: [REDACTED] (CP 14)	Manpower: Responder	Responder	8 each		
NWST-6: [REDACTED] (CP 14)	Sorbent: Boom	Sorbent Boom	4000 feet	5 inch(es)	
NWST-6: [REDACTED] (CP 14)	Viscous Sweep	Viscous Sweep	4000 feet		
Tactical Objective					
Prevent spilled material from impacting the shoreline. Manage a coordinated response effort.					
Location of Work					
NWST-6 is located to the south of the mouth of the [REDACTED] ~12.5 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
ICS 204 - Assignment List		Printed: 11/3/2012 01:32		Page 1 of 1	
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		Site Number: NWST-7 (CP 1477- 21.5) Site Name: [REDACTED]	
		Division: Northwest Straits Division	
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Boat docks for large vessels. Staging area is sand. [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Commercial
Nearby Sensitivities: N/A		Staging Area Size: 500' X 800'	
Nearest Pipeline Crossing & Distance: Line 5 (~21.5 Miles)		Nearest Boat Ramp & Distance: Dock 3 Park Boat Ramp ~31 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Rock Barrier		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Bulkhead/Rock	Bank Slope: Steep	Bank Height: ~10'	Existing Facilities: Electricity, Restrooms, Water, Buildings
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Light Duty	Road Surface: Sand/Gravel	Access Location: North Shoreline Lake Michigan
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

		<u>Site Number:</u> NWST-7 (CP 1477- 21.5) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northwest Straits Division	
SITE PHOTOGRAPHS			
			
1. Large Vessel Tie Up (Looking East)		2. Large Vessel Tie Up (Looking Southwest)	
			
3. Entrance to the Docks (Looking West)		4. Staging Area (Looking North)	
RESPONSE INFORMATION			
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A	
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: NWST-7: [REDACTED] (CP 1477-		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NWST-7: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
NWST-7 is located to the west of intersection at [REDACTED], ~21.5 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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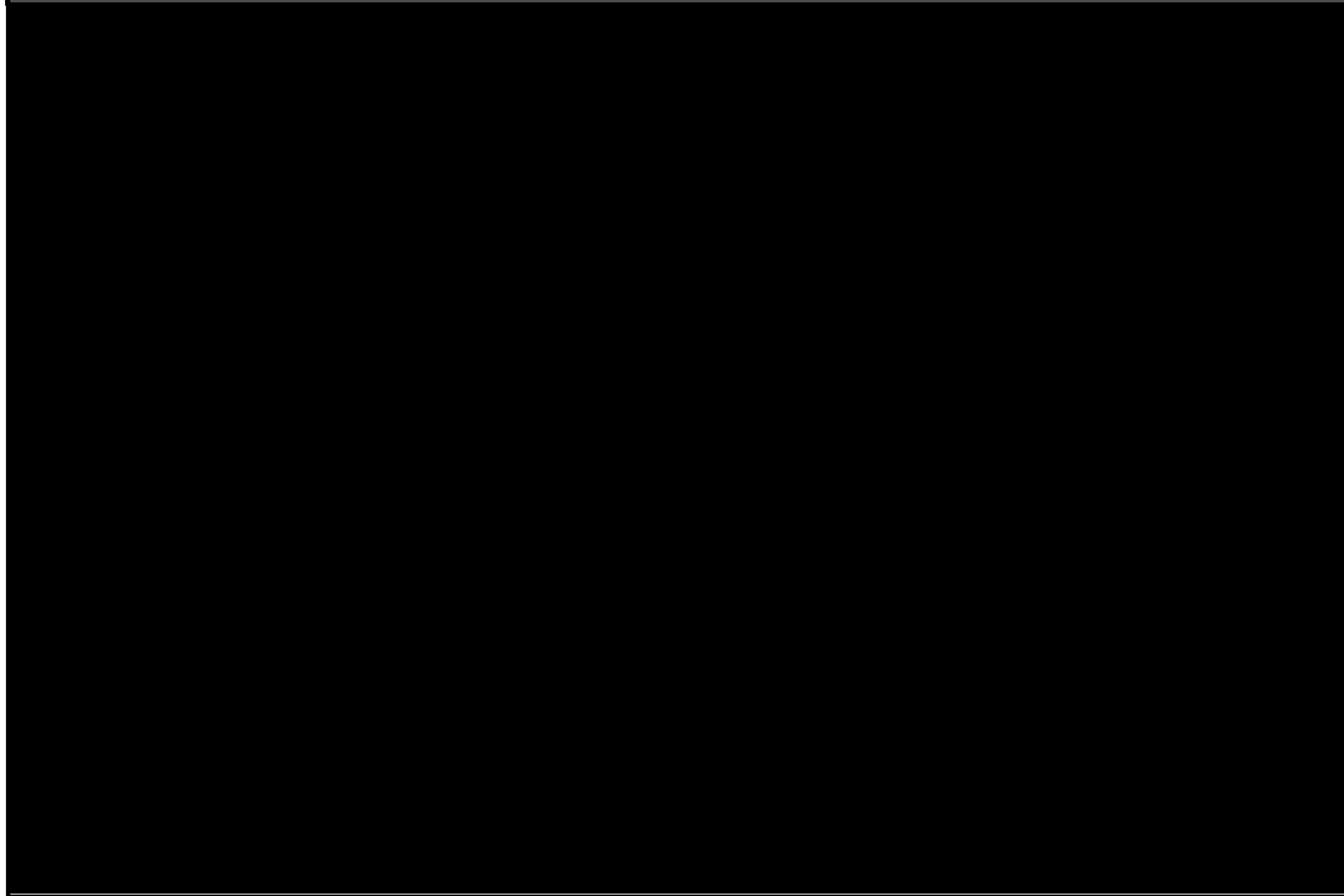
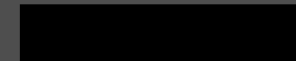


*Straits of Mackinac
Tactical Response Plan*

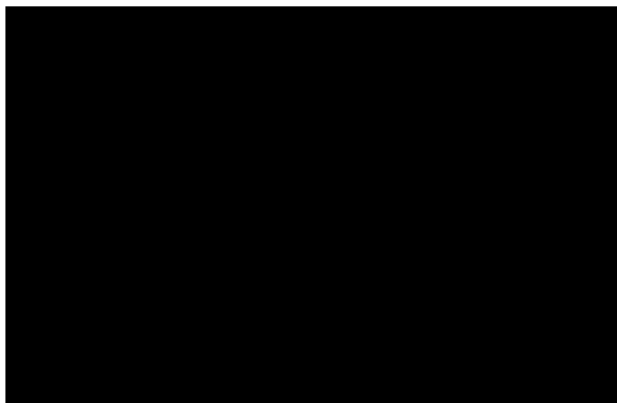
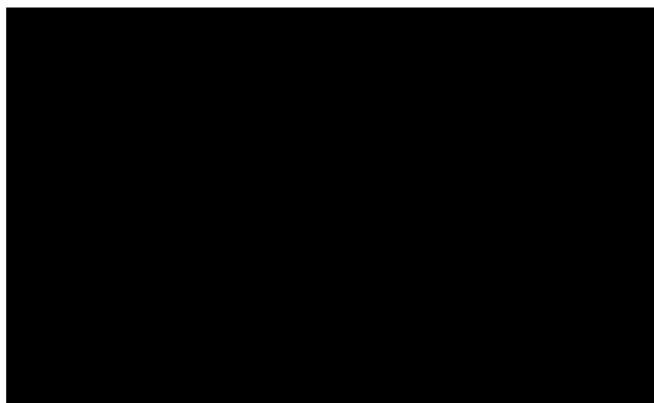
Northeast Straits Division				
Site ID	Name	Drainage System	Type of Site	Distance From Source
NEST-1		Lake Michigan	Protection/Staging	1.1 miles
NEST-2		Lake Michigan	Recovery/ Staging	1.5 miles
NEST-3		Lake Huron	Staging	3.0 miles
NEST-4		Lake Huron	Protection/ Staging	4.1 miles
NEST-5		East Moran Bay/ Lake Huron	Staging	4.6 miles
NEST-6		East Moran Bay/ Lake Huron	Staging	5.2 miles
NEST-7		East Moran Bay/ Lake Huron	Staging	5.1 miles
NEST-8		East Moran Bay/ Lake Huron	Staging	5.0 miles
NEST-9		Carp River/ Lake Huron	Staging	15.7 miles
Grey highlight = potential staging area				



Straits of Mackinac Response Plan
Northeast Straits Division



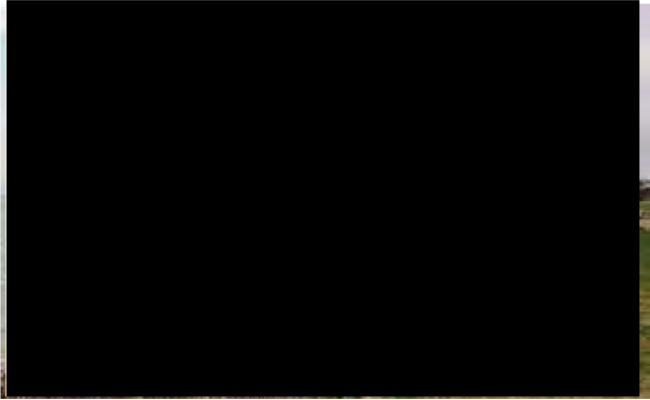
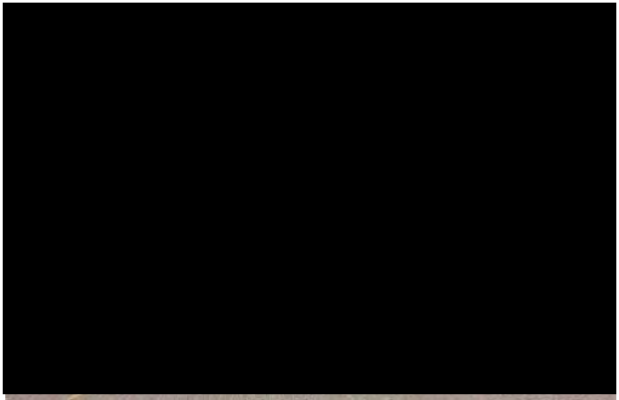
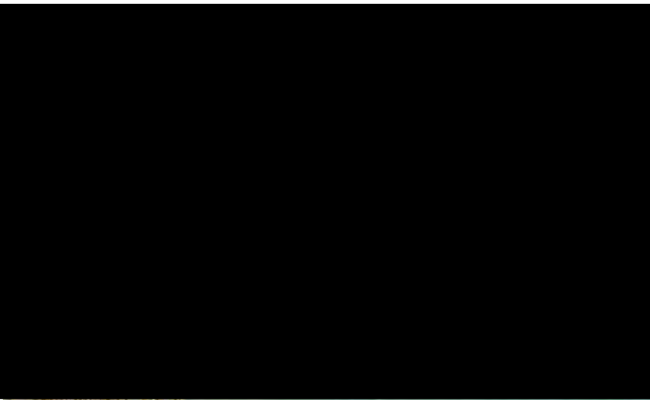
		Site Number: NEST-1 (CP 1477- 1.1) Site Name: [REDACTED]	
		Division: Northeast Straits Division	
SITE INFORMATION			
Type of Site: Protection/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Gravel boat ramp at site may be accessible for launching small boats and resupplying vessels. Use caution while boating due to rocks.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: 300' X 50'	
Nearest Pipeline Crossing & Distance: Line 5 (~1.1 Miles)		Nearest Boat Ramp & Distance: Dock 3 Park Boat Ramp ~2.25 Miles (Gravel Boat Ramp at site may be accessible)	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Rocks		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: Gravel Parking
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Light Duty	Road Surface: Gravel	Access Location: North Shoreline Lake Michigan
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

		<u>Site Number:</u> NEST-1 (CP 1477- 1.1) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Gravel Boat Ramp (Looking South)		2. Staging Area (Looking East)	
			
3. Staging Area (Looking West)		4. Gravel Boat Ramp/Shoreline (Looking South)	
RESPONSE INFORMATION			
Deployment Strategy: Protection		High Water: Sorbent Booming	
Low Water: Sorbent Booming			
Boom Required: 5800' SB, 800' BB		Recovery Method: Debris	
Tank Truck Access: Yes			
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: NEST-1: [REDACTED] (1477-1.1)		
Approved By Signature:					
Assignments					
1.) From the staging area, deploy 1600' of sorbent boom along the shoreline to the east. 2.) From the staging area, deploy 4200' of sorbent boom along the shoreline to the south. 3.) From the southern edge of where the sorbent boom is placed, deploy 400' of beach boom across the cove to prevent impact. 4.) Establish site as a staging area. 5.) Maintain site integrity over the course of the response. 6.) Manage check-in and check-out of resources.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
NEST-1: [REDACTED]	Boom	Beach Boom	800 feet	22 inch(es)	
NEST-1: [REDACTED]	Boom Accessories	Anchor Stakes	75 each		
NEST-1: [REDACTED]	Manpower: Operator	Boat Operator	1 each		
NEST-1: [REDACTED]	Manpower: Responder	Responder	17 each		
NEST-1: [REDACTED]	Security Guard	Security Guard	2 each		
NEST-1: [REDACTED]	Sorbent: Boom	Sorbent Boom	5800 feet	5 inch(es)	
NEST-1: [REDACTED]	Vessel	Jon Boat	1 each	14 feet	
Tactical Objective					
Prevent spilled material from impacting the shoreline. Establish site as a staging area. Manage a coordinated response effort.					
Location of Work					
NEST-1 is located at the intersection of [REDACTED] ~1.1 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
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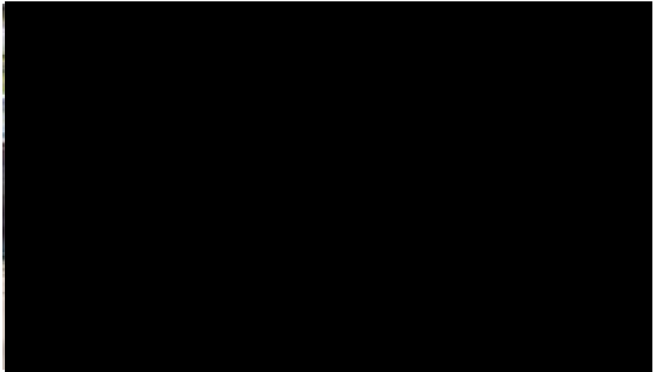
		Site Number: NEST-2 (CP 1477- 1.5) Site Name: [REDACTED]	
		Division: Northeast Straits Division	
SITE INFORMATION			
Type of Site: Recovery/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. [REDACTED] has multiple pavilions, restrooms, and parking lots that could be utilized as a staging area.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: 100' X 600'	
Nearest Pipeline Crossing & Distance: Line 5 (~1.5 Miles)		Nearest Boat Ramp & Distance: Dock 3 Park Boat Ramp ~2 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Bridge, Rocks		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock	Bank Slope: Steep	Bank Height: ~10'	Existing Facilities: Lighting, Electricity, Buildings, Restroom, Pavilion
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Secondary Highway	Road Surface: Paved	Access Location: North Shoreline Lake Michigan
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

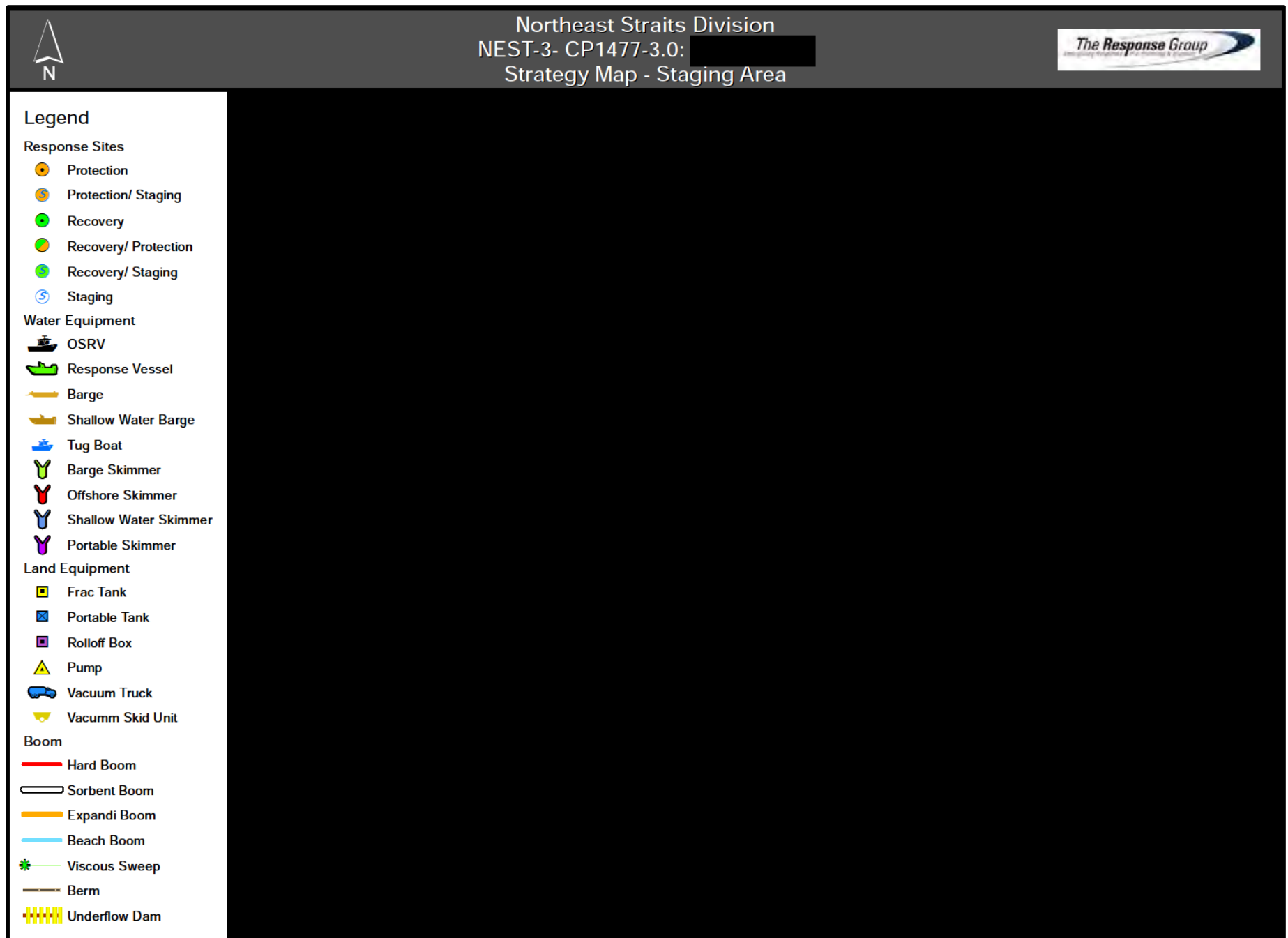
		<u>Site Number:</u> NEST-2 (CP 1477- 1.5) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Collection Area (Looking Southeast)		2. Shoreline (Looking West)	
			
3. Staging Area (Looking West)		4. Bridge (Looking Southeast)	
RESPONSE INFORMATION			
Deployment Strategy: Recovery		High Water: Booming	Low Water: Booming
Boom Required: 600' HB, 3400' SB, 3400' VS		Recovery Method: Skimmer, Debris	Tank Truck Access: Yes (Extra hose required)
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: NEST-2: [REDACTED] (CP 1477-1.5)		
Approved By Signature:					
Assignments					
1.) Deploy 3400' of viscous sweep from the [REDACTED] to the west along the shoreline. 2.) On the inland side of the viscous sweep, deploy 3400' of sorbent boom from the [REDACTED] to the west along the shoreline. 3.) On the northern section bridge, deploy 300' of hard boom on the west side and 300' of hard boom on the east side. 4.) Deploy 2 shallow water skimmers and 2 response vessels on the west of the bridge to recover product to the extent possible. 5.) Establish site as a staging area. 6.) Maintain site integrity over the course of the response. 7.) Manage check-in and check-out of resources.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
NEST-2: [REDACTED]	Boom	Hard Boom	600 feet	18 inch(es)	
NEST-2: [REDACTED]	Boom Accessories	Boom Anchors	12 each	40 pound(s)	
NEST-2: [REDACTED]	Boom Accessories	Anchor Stakes	70 each		
NEST-2: [REDACTED]	Manpower: Operator	Boat Operator	6 each		
NEST-2: [REDACTED]	Manpower: Responder	Responder	20 each		
NEST-2: [REDACTED]	Security Guard	Security Guard	2 each		
NEST-2: [REDACTED]	Skimmer	Shallow Water Skimmer	2 each		
NEST-2: [REDACTED]	Sorbent: Boom	Sorbent Boom	3400 feet	5 inch(es)	
NEST-2: [REDACTED]	Vessel	Response Vessel	2 each	20	
NEST-2: [REDACTED]	Vessel	Jon Boat	4 each	14 feet	
NEST-2: [REDACTED]	Viscous Sweep	Viscous Sweep	3400 feet		
Tactical Objective					
Prevent spilled material from impacting the shoreline at [REDACTED] Collect spill material to the extent possible. Establish site as a staging area. Manage a coordinated response effort.					
Location of Work					
NEST-2 is located at [REDACTED] ~1.5 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
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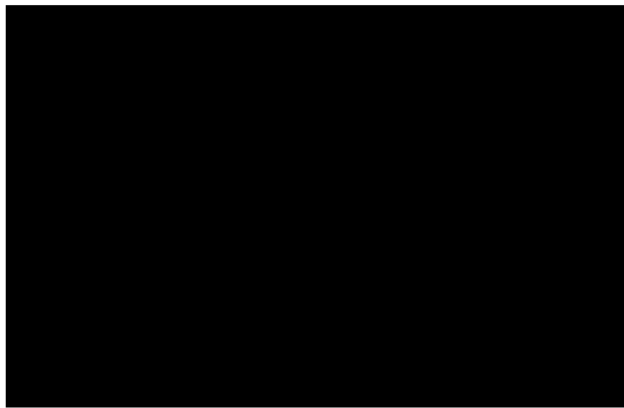
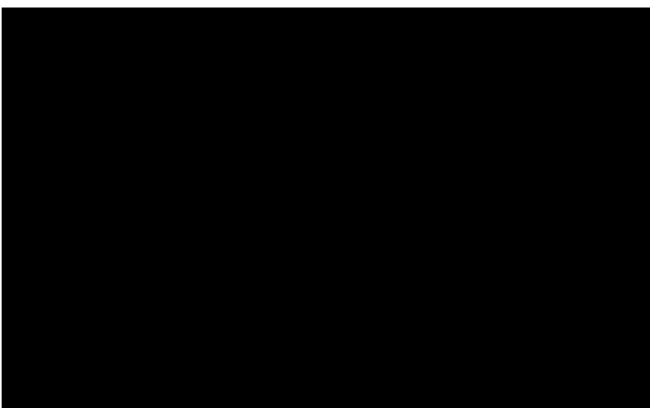
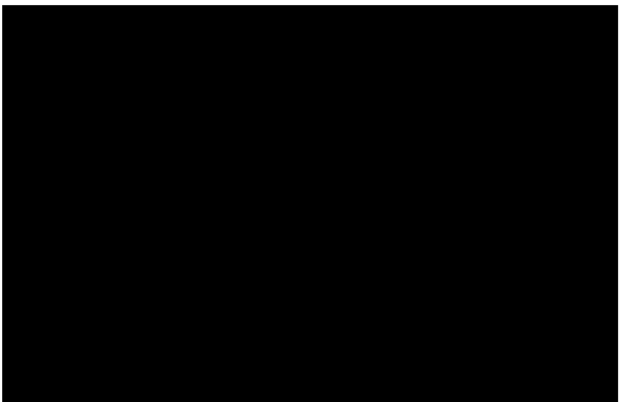
		Site Number: NEST-3 (CP 1477- 3.0) Site Name: [REDACTED]	
		Division: Northeast Straits Division	
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Multiple parks along the shoreline. Response equipment can be deployed from the shoreline. [REDACTED] boat ramp has connecting property that could be procured as a staging area.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: USCG Station		Staging Area Size: 150' X 300'	
Nearest Pipeline Crossing & Distance: Line 5 (~3.0 Miles)		Nearest Boat Ramp & Distance: Dock 3 Park Boat Ramp ~ At Site	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Rocks		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock	Bank Slope: Steep	Bank Height: ~10'	Existing Facilities: Lighting, Electricity, Buildings, Restroom, Pavilion
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Secondary Highway	Road Surface: Paved/Gravel	Access Location: West Shoreline Lake Huron
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

		<u>Site Number:</u> NEST-3 (CP 1477- 3.0) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Staging Area (Looking Northeast)		2. Boat Ramp (Looking North)	
			
3. Ramp Notice (Looking North)			
RESPONSE INFORMATION			
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A	
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: NEST-3: [REDACTED] (CP 1477-3.0)		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NEST-3: [REDACTED] (CP 1477)	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
NEST-3 is located west of the intersection of [REDACTED], ~3.0 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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		Site Number: NEST-4 (CP 1477- 4.1)	
		Site Name: [REDACTED]	
Division: Northeast Straits Division			
SITE INFORMATION			
Type of Site: Protection/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. [REDACTED] is accessible by vehicle with access to locked gates. City of St. Ignace 396 N. State Street St. Ignace, MI 49781-1487 (906) 643-8676			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: N/A		Staging Area Size: 50' X 100' (Paved) 175' X 200' (Gravel)	
Nearest Pipeline Crossing & Distance: Line 5 (~4.1 Miles)		Nearest Boat Ramp & Distance: Dock 3 Park Boat Ramp ~ 1 Mile	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Rocks		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: Pavilions
ACCESS INFORMATION			
Type of Access: Road, Boat, ATV	Road Type: Secondary Highway	Road Surface: Paved	Access Location: West Shoreline Lake Huron
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

		<u>Site Number:</u> NEST-4 (CP 1477- 4.1) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Beach Area (Looking Northwest)		2. Beach Area (Looking Southeast)	
			
3. Parking/Staging Area (Looking Northeast)		4. Pier and Pavilion (Looking Northwest)	
RESPONSE INFORMATION			
Deployment Strategy: Protection		High Water: Sorbent Booming	
Low Water: Sorbent Booming			
Boom Required: 1600' SB, 1600' VS		Recovery Method: N/A	
		Tank Truck Access: Yes (Extra hose required)	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: NEST-4: [REDACTED]		
Approved By Signature:				
Assignments				
1.) Deploy 1600' of viscous sweep along the shoreline at the [REDACTED] as shown on the associated map. 2.) On the inland side of the viscous sweep, deploy 1600' of sorbent boom along the shoreline at the [REDACTED] [REDACTED]				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NEST-4: [REDACTED]	Boom Accessories	Anchor Stakes	35 each	
NEST-4: [REDACTED]	Sorbent: Boom	Sorbent Boom	1600 feet	5 inch(es)
NEST-4: [REDACTED]	Viscous Sweep	Viscous Sweep	1600 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline.				
Location of Work				
NEST-4 is located at the [REDACTED] ~4.1 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:33	Page 1 of 1	© 1997-2012 dbSoft, Inc.

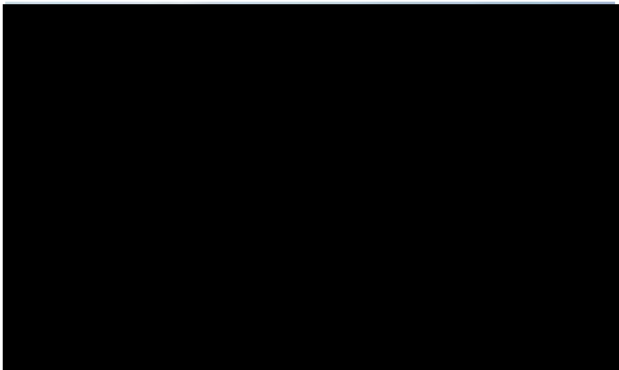
		Site Number: NEST-5 (CP 1477- 4.6) Site Name: [REDACTED]	
		Division: Northeast Straits Division	
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. There is not a boat ramp at this site. City of St. Ignace 396 N. State Street St. Ignace, MI 49781-1487 (906) 643-8676			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: 150' X 350'	
Nearest Pipeline Crossing & Distance: Line 5 (~4.6 Miles)		Nearest Boat Ramp & Distance: Dock 3 Park Boat Ramp ~ 1.75 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Docks, Boat Slips		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Bulkhead/Rock	Bank Slope: Steep	Bank Height: ~12'	Existing Facilities: Lighting, Electricity, Parking, Restrooms, Fuel, Boat Slips, Water, Building
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Secondary Highway	Road Surface: Paved	Access Location: West Shoreline Lake Huron
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/14/2012

		<u>Site Number:</u> NEST-5 (CP 1477- 4.6) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northeast Straits Division	
SITE PHOTOGRAPHS			
1. Parking Area (Looking Northwest)		2. [REDACTED] Sign (Looking Northeast)	
3. [REDACTED] (Looking East)		4. [REDACTED] Docks (Looking North)	
RESPONSE INFORMATION			
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A	
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes (Extra hose required)	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: NEST-5: [REDACTED] (CP 147)		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NEST-5: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
NEST-5 is located west of the intersection of [REDACTED], ~4.6 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:34	Page 1 of 1	© 1997-2012 dbSoft, Inc.

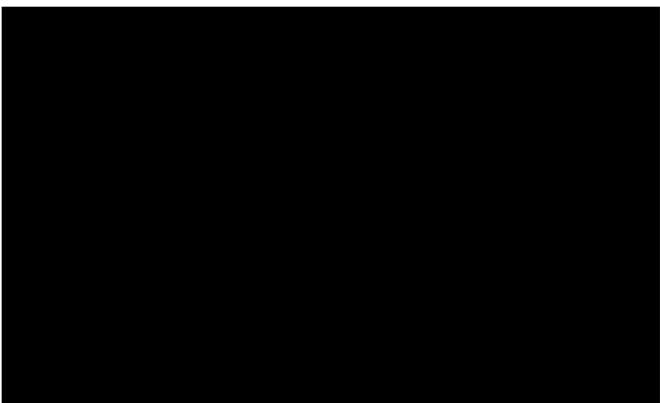
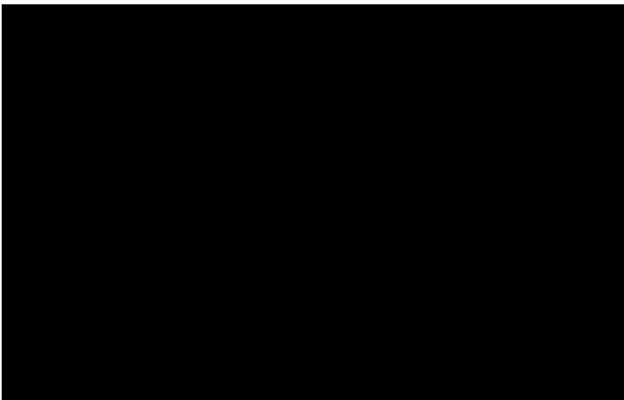
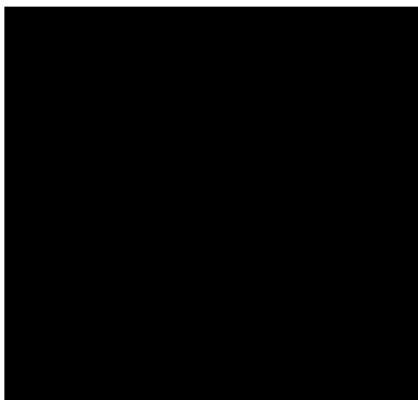
		Site Number: NEST-6 (CP 1477- 5.2)	
		Site Name: [REDACTED]	
Division: Northeast Straits Division			
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Multiple parking areas that could be utilized. Use caution while boating due to rocks. There is not a boat ramp at this site. [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Nearby Sensitivities: N/A		Staging Area Size: 500' X 400'	
Nearest Pipeline Crossing & Distance: Line 5 (~5.2 Miles)		Nearest Boat Ramp & Distance: City of St. Ignace Boat Ramp ~ 0.25 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake/Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris): Docks		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Bulkhead	Bank Slope: Steep	Bank Height: ~12'	Existing Facilities: Lighting, Electricity, Parking, Restrooms Boat Tie Offs, Water, Building
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Secondary Highway	Road Surface: Paved	Access Location: West Shoreline Lake Huron/Moran Bay
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/14/2012

		<u>Site Number:</u> NEST-6 (CP 1477- 5.2) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Parking Area (Looking West)		2. Ferry Sign (Looking Northeast)	
RESPONSE INFORMATION			
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A	
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes (Extra hose required)	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: NEST-6: Docks @ [REDACTED]		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NEST-6: Docks @ [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
NEST-6 is located west of the intersection of [REDACTED] ~5.2 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:34	Page 1 of 1	© 1997-2012 dbSoft, Inc.

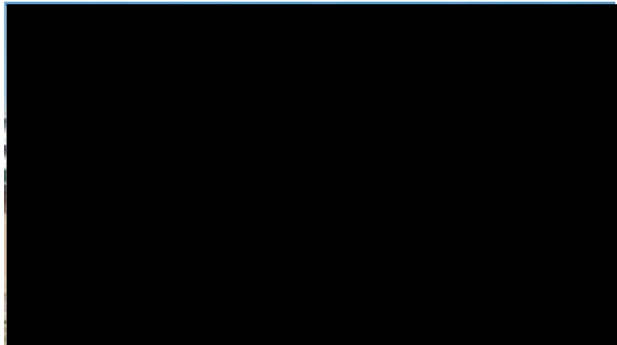
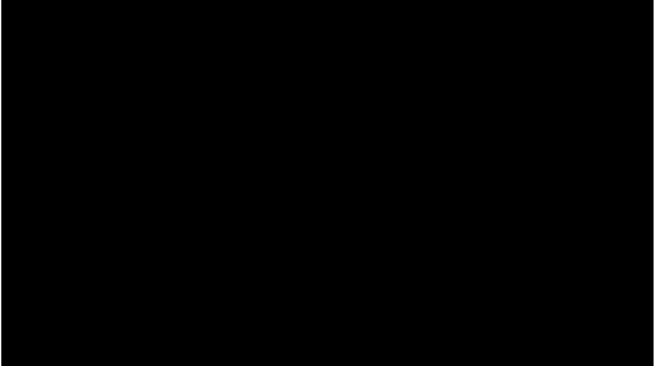
		Site Number: NEST-7 (CP 1477- 5.1)	
		Site Name: [REDACTED]	
Division: Northeast Straits Division			
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Boat launch at site. Site is on East Moran Bay.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Nearby Sensitivities: N/A		Staging Area Size: 200' X 500'	
Nearest Pipeline Crossing & Distance: Line 5 (~5.1 Miles)		Nearest Boat Ramp & Distance: City of St. Ignace Boat Ramp ~ At Site	
WATERWAY INFORMATION			
Type of Waterway: Lake/Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris): Wind Barrier		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Bulkhead/Rock	Bank Slope: Steep	Bank Height: ~10'	Existing Facilities: Lighting, Electricity, Parking, Restrooms, Boat Ramp, Water
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Secondary Highway	Road Surface: Paved	Access Location: West Shoreline Lake Huron/East Moran Bay
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/14/2012

		<u>Site Number:</u> NEST-7 (CP 1477- 5.1) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Boat Ramp (Looking Southwest)		2. Parking/Staging Area (Looking Northwest)	
			
3. Parking/Staging Area (Looking East)		4. Sign (Looking Southwest)	
RESPONSE INFORMATION			
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A	
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: NEST-7: [REDACTED]		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NEST-7: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
NEST-7 is located at the intersection of [REDACTED] ~5.1 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:34	Page 1 of 1	© 1997-2012 dbSoft, Inc.

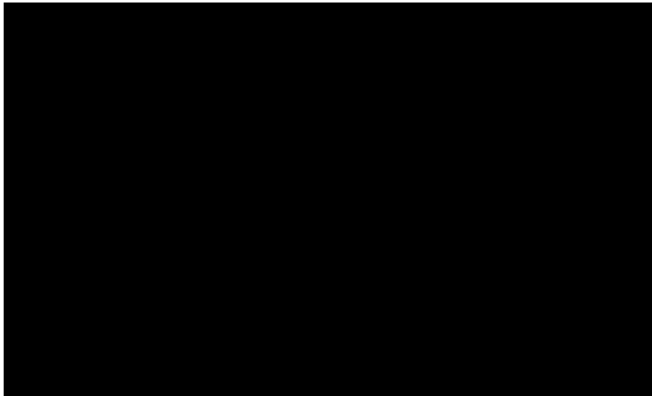
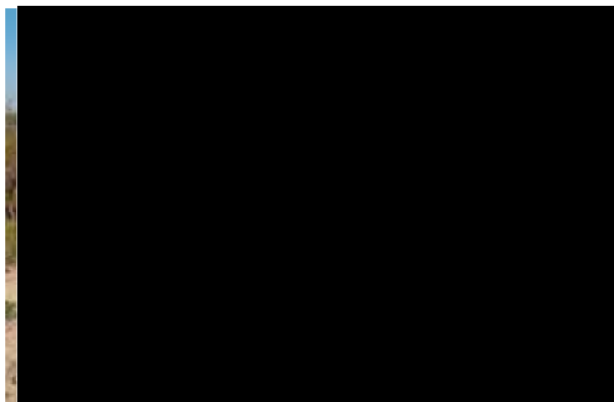
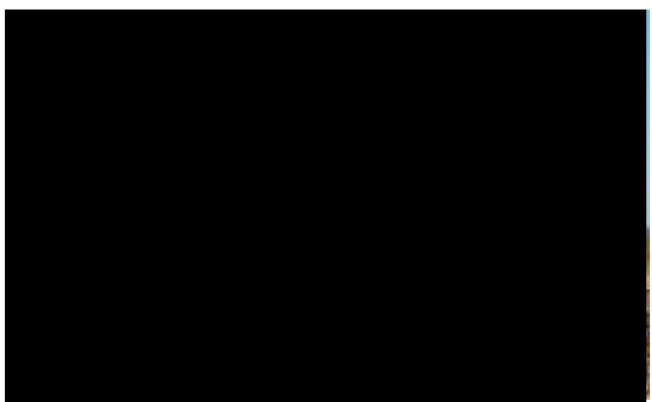
		Site Number: NEST-8 (CP 1477- 5.0) Site Name: [REDACTED]	
		Division: Northeast Straits Division	
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Large boat lift/dry dock at site. Site is on East Moran Bay. Several large gravel areas that could be utilized for staging/parking. Vessel repair services at site. [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Commercial
Nearby Sensitivities: N/A		Staging Area Size: 650' X 700'	
Nearest Pipeline Crossing & Distance: Line 5 (~5.0 Miles)		Nearest Boat Ramp & Distance: City of St. Ignace Boat Ramp ~ 0.25 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake/Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Bulkhead/Rock	Bank Slope: Steep	Bank Height: ~10'	Existing Facilities: Lighting, Electricity, Parking, Restrooms (Private), Boat Lift, Water
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Light Duty	Road Surface: Gravel	Access Location: West Shoreline Lake Huron/East Moran Bay
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/14/2012

		<u>Site Number:</u> NEST-8 (CP 1477- 5.0) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Boat Lift/Parking Area (Looking Southeast)		2. Boat Lift (Looking Southeast)	
			
3. Entrance to Site (Looking Southeast)			
RESPONSE INFORMATION			
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A	
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: NEST-8: [REDACTED] (CP 1477-5.0)		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NEST-8: [REDACTED] (CP 14	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
NEST-8 is located at the intersection of [REDACTED], ~5.0 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:34	Page 1 of 1	© 1997-2012 dbSoft, Inc.

		Site Number: NEST-9 (CP 1477- 15.7) Site Name: [REDACTED]	
		Division: Northeast Straits Division	
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Site is on Saint Martin Bay. Abandoned boat ramp would need repairs. Gravel boat ramp is usable.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: 50' X 700'	
Nearest Pipeline Crossing & Distance: Line 5 (~15.7 Miles)		Nearest Boat Ramp & Distance: [REDACTED]	
WATERWAY INFORMATION			
Type of Waterway: River	Average Current Speed: <1 Mph	Tidally Influenced: Minimal	Waterway Width: Low: 125' High: 150'
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Dirt/Grass/Trees/Rock	Bank Slope: Medium	Bank Height: ~3'	Existing Facilities: Parking, Boat Ramp
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Light Duty	Road Surface: Gravel	Access Location: RDB of Carp River
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/14/2012

		<u>Site Number:</u> NEST-9 (CP 1477- 15.7) <u>Site Name:</u> [REDACTED] <u>Division:</u> Northeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Parking Area (Looking Northwest)		2. Gravel Boat Ramp (Looking Northeast)	
			
3. Abandoned Boat Ramp (Looking Northeast)		4. Sign (Looking North)	
RESPONSE INFORMATION			
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A	
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: NEST-9: [REDACTED] CP 1477-		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
NEST-9: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
NEST-9 is located at the intersection of [REDACTED], ~15.7 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:34	Page 1 of 1	© 1997-2012 dbSoft, Inc.



*Straits of Mackinac
Tactical Response Plan*

Southwest Straits Division

Site ID	Name	Drainage System	Type of Site	Distance From Source
SWST-1		Lake Huron	Protection/ Staging	At Site
SWST-2		Trails End Bay/ Lake Huron	Protection/ Staging	3.8 miles
SWST-3		Cecil Bay/ Lake Huron	Protection	5.1 miles
SWST-4		Big Stone Bay/ Lake Huron	Staging	7.0 miles
SWST-5		Big Stone Bay/ Lake Huron	Staging	7.5 miles
SWST-6		Lake Huron	Protection/ Staging	9.9 miles

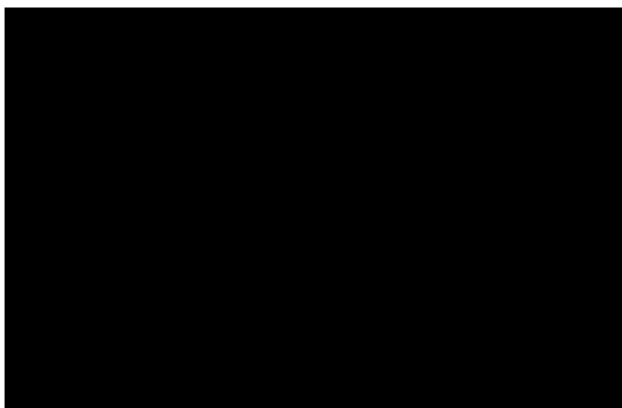
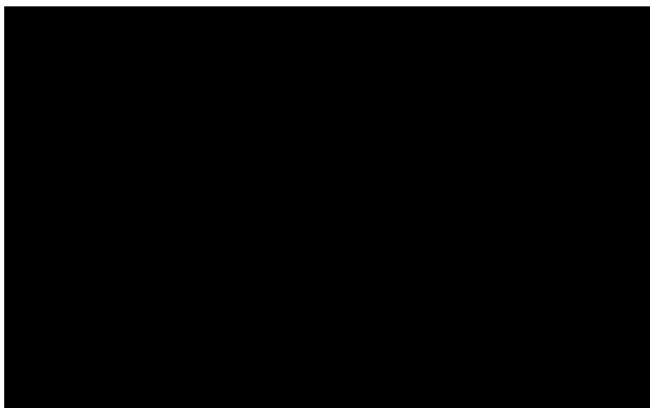
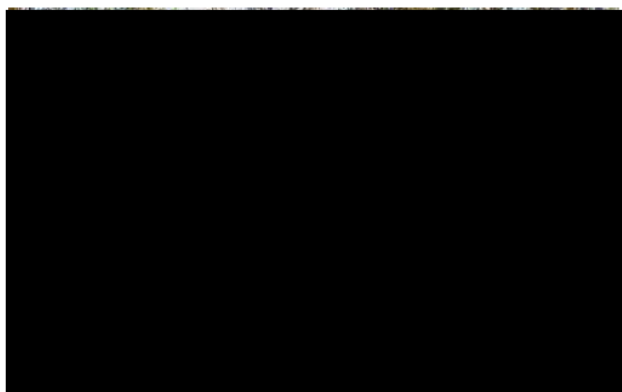
- Grey highlight = potential staging area

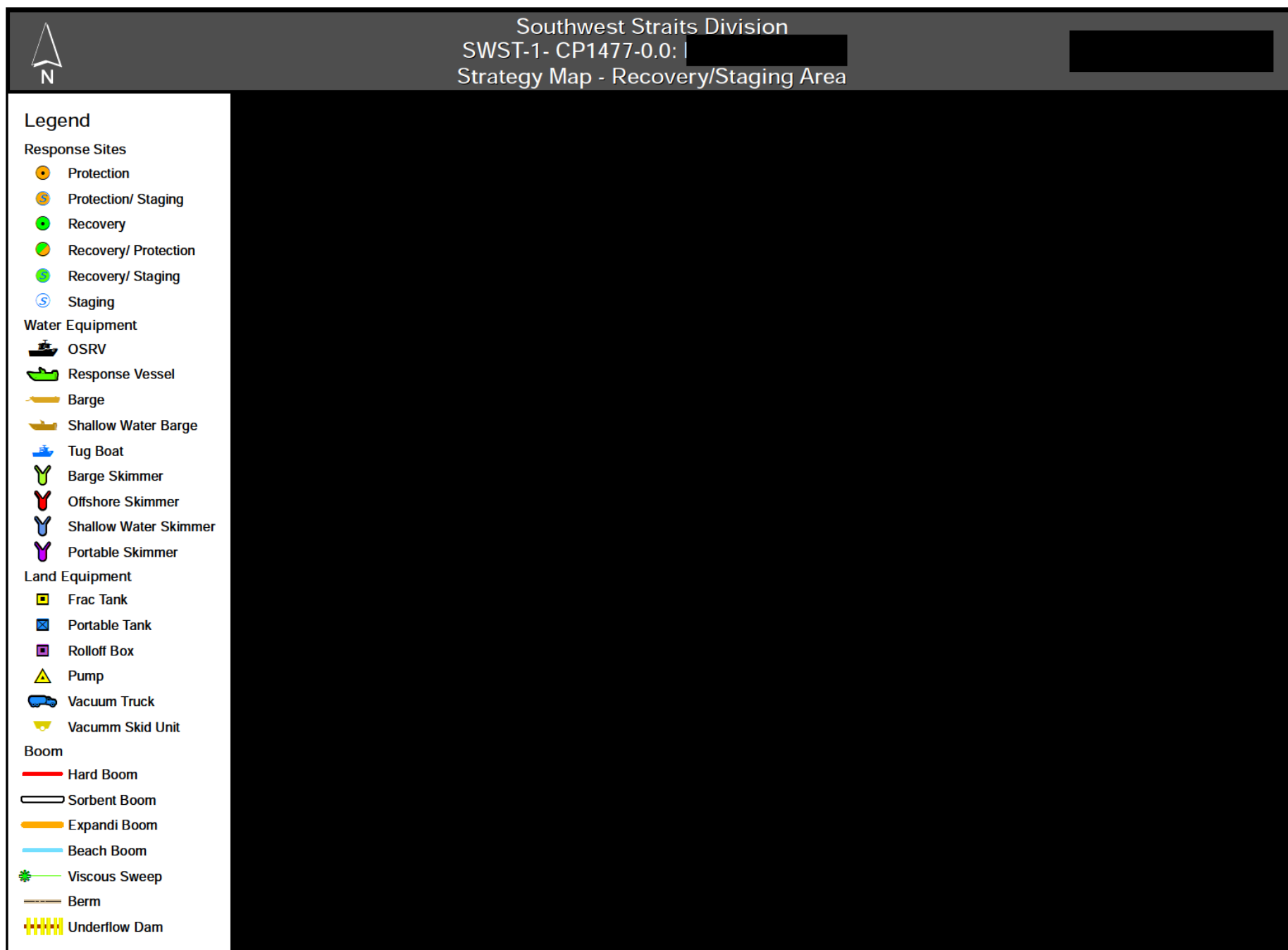


Straits of Mackinac Response Plan
Southwest Straits Division



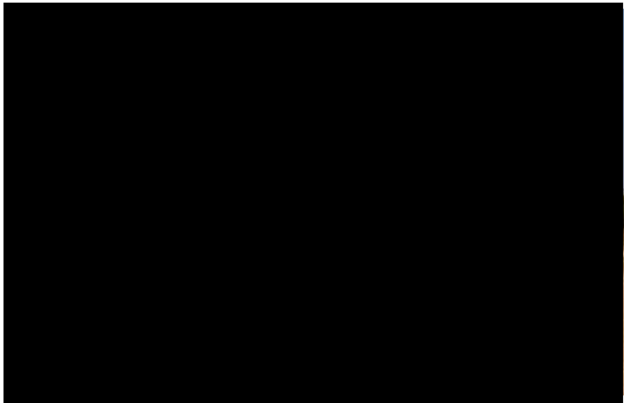
		Site Number: SWST-1 (CP 1477- 0.0) Site Name: [REDACTED]	
		Division: Southwest Straits Division	
SITE INFORMATION			
Type of Site: Recovery/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: At the site of the pipeline crossing. Use caution while boating due to rocks and shallow water. Two potential staging areas near this site.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Emmet	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: 100' X 75'	
Nearest Pipeline Crossing & Distance: Line 5 (At Site)		Nearest Boat Ramp & Distance: Municipal Marina Boat Ramp ~3.5 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock	Bank Slope: Slight	Bank Height: ~3'	Existing Facilities: Gravel Parking
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Light Duty	Road Surface: Gravel	Access Location: South Shoreline Lake Michigan
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

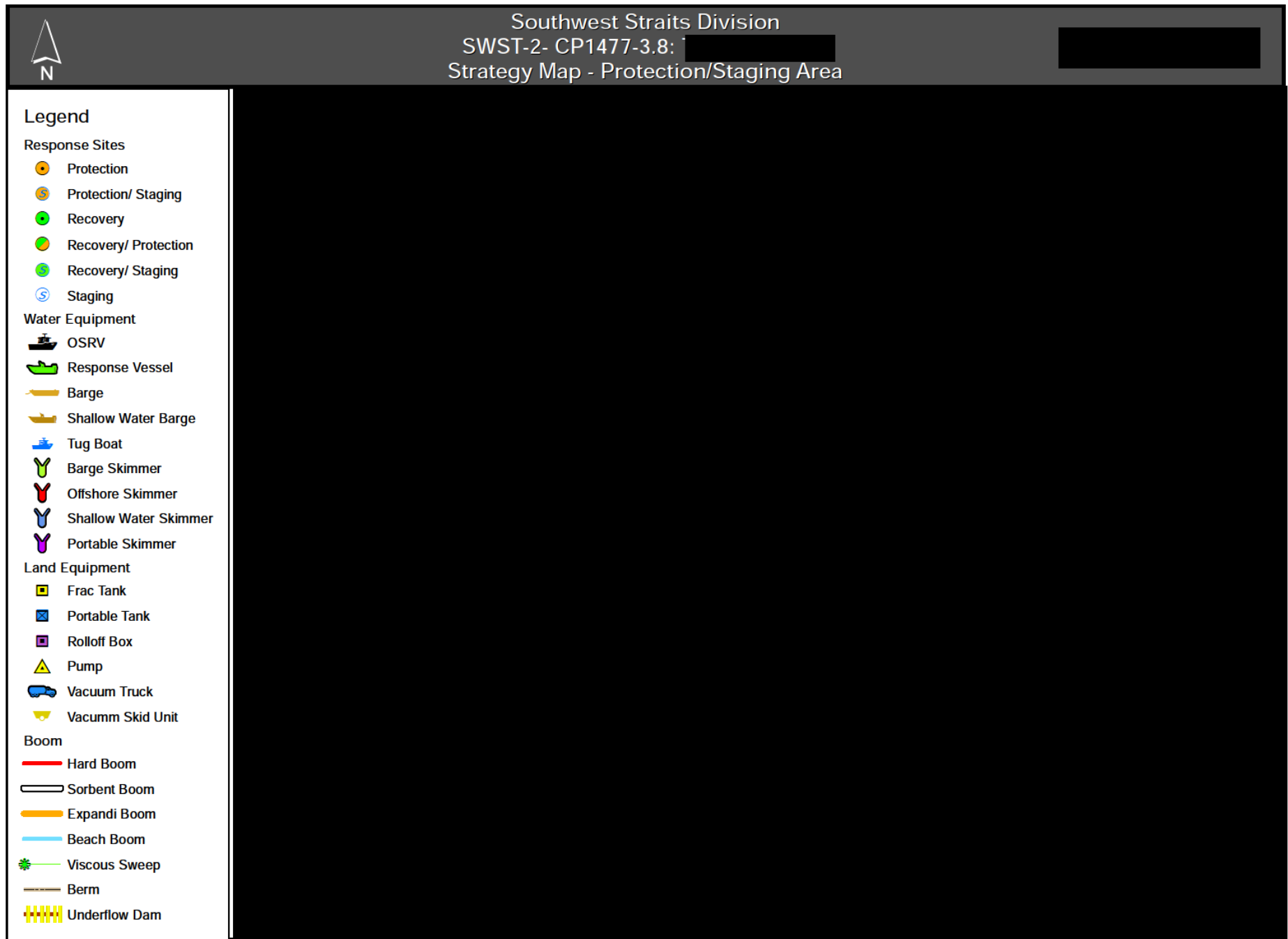
		<u>Site Number:</u> SWST-1 (CP 1477- 0.0) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southwest Straits Division	
SITE PHOTOGRAPHS			
			
1. Shoreline (Looking East)		2. Staging Area (Looking Southeast)	
			
3. [REDACTED] (Looking Northeast)			
RESPONSE INFORMATION			
Deployment Strategy: Recovery	High Water: Booming	Low Water: Booming	
Boom Required: 700' HB, 2400' SB, 2400' VS	Recovery Method: Skimmer, Debris	Tank Truck Access: Yes (Extra hose required)	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: SWST-1: [REDACTED] (CP 1477-0.0)		
Approved By Signature:					
Assignments					
1.) Deploy 2400' viscous sweep along the shoreline to the west of the dead end at [REDACTED] 2.) Deploy 2400' of sorbent boom along the shoreline on the inland side of the viscous sweep. 3.) From the western tip of the sorbent, deploy 700' of hard boom toward the north at an angle dependent on current speed . 4.) Stage roll off box to store collected oiled debris. 5.) Establish site as a staging area. 6.) Maintain site integrity over the course of the response. 7.) Manage check-in and check-out of resources.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
SWST-1: [REDACTED] (CP 1	Boom	Hard Boom	700 feet	18 inch(es)	
SWST-1: [REDACTED] (CP 1	Boom Accessories	Boom Anchors	15 each	40 pound(s)	
SWST-1: [REDACTED] (CP 1	Boom Accessories	Anchor Stakes	50 each		
SWST-1: [REDACTED] (CP 1	Manpower: Operator	Boat Operator	3 each		
SWST-1: [REDACTED] (CP 1	Manpower: Responder	Responder	10 each		
SWST-1: [REDACTED] (CP 1	Security Guard	Security Guard	2 each		
SWST-1: [REDACTED] (CP 1	Skimmer	Shallow Water Skimmer	1 each		
SWST-1: [REDACTED] (CP 1	Sorbent: Boom	Sorbent Boom	2400 feet	5 inch(es)	
SWST-1: [REDACTED] (CP 1	Storage: Solid	Roll Off Box	1 each	30 cubic yard	
SWST-1: [REDACTED] (CP 1	Vessel	Jon Boat	2 each	14 feet	
SWST-1: [REDACTED] (CP 1	Vessel	Response Boat	1 each	20 feet	
SWST-1: [REDACTED] (CP 1	Viscous Sweep	Viscous Sweep	2400 feet		
Tactical Objective					
Prevent spilled material from impacting the shoreline. Establish site as a staging area. Manage a coordinated response effort.					
Location of Work					
SWST-1 is located to the northern dead end of [REDACTED] ~0.0 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
ICS 204 - Assignment List		Printed: 11/3/2012 01:35		Page 1 of 1	
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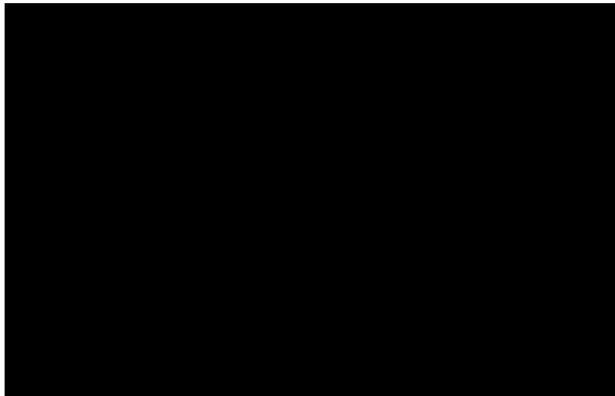
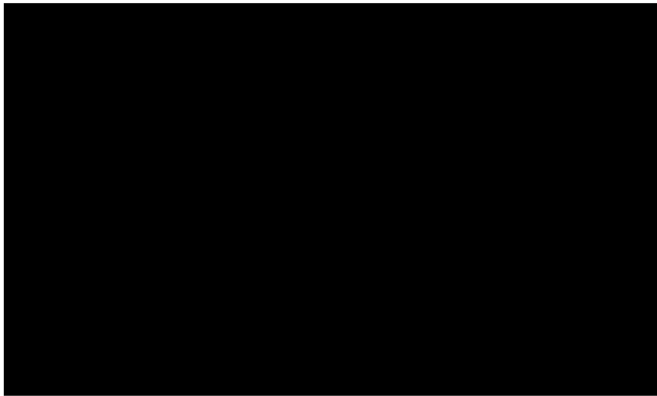
		Site Number: SWST-2 (CP 1477- 3.8)	
		Site Name: [REDACTED]	
Division: Southwest Straits Division			
SITE INFORMATION			
Type of Site: Protection/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Parking area may need improvements if utilized. Use caution while boating due to rocks and shallow areas along the shoreline. Equipment may be deployed from the shoreline. Consider establishing a community/neighborhood liaison immediately.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Emmet	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: Residential area along the shoreline.		Staging Area Size: 250' X 75'	
Nearest Pipeline Crossing & Distance: Line 5 (~3.8 Miles)		Nearest Boat Ramp & Distance: Big Stone Bay Boat Ramp ~7 Miles	
WATERWAY INFORMATION			
Type of Waterway: Bay/Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock	Bank Slope: Slight	Bank Height: ~3'	Existing Facilities: Gravel/Sand Parking, Restroom (no running water)
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Light Duty	Road Surface: Gravel/Sand	Access Location: East Shoreline of [REDACTED]
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

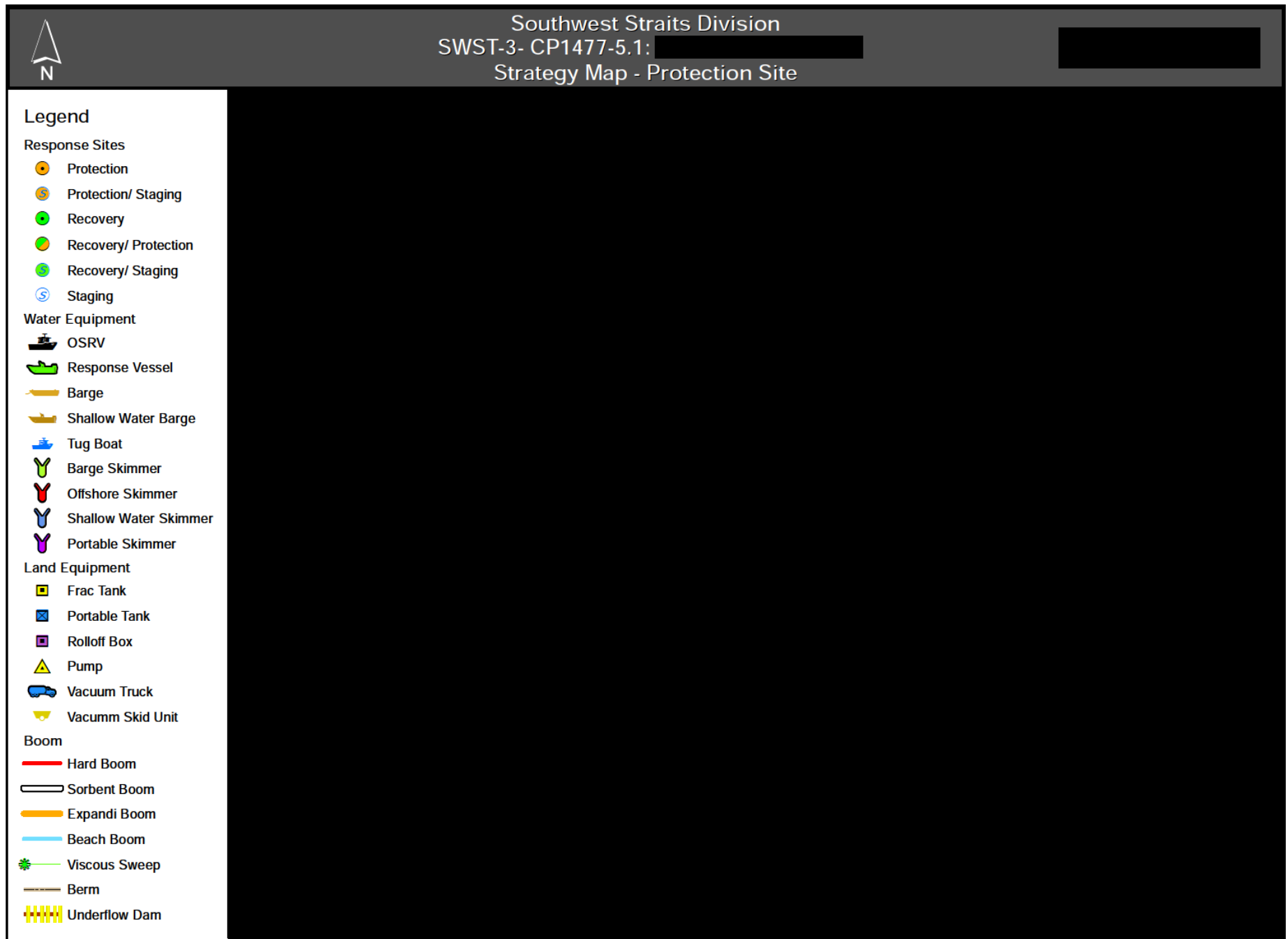
		<u>Site Number:</u> SWST-2 (CP 1477- 3.8) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southwest Straits Division	
SITE PHOTOGRAPHS			
			
1. Shoreline (Looking Northwest)		2. Staging Area (Looking South)	
			
3. Restrooms (Looking West)		4. Shoreline (Looking West)	
RESPONSE INFORMATION			
Deployment Strategy: Protection		High Water: Sorbent Booming	
Low Water: Sorbent Booming			
Boom Required: 4000' SB, 4000' VS		Recovery Method: Debris	
		Tank Truck Access: Yes (Extra hose required)	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: SWST-2: [REDACTED] (CP 1477-3.8)		
Approved By Signature:				
Assignments				
1.) Deploy 4000' viscous sweep along the shoreline across the residences to the south of the dead end at [REDACTED] 2.) Deploy 4000' of sorbent boom along the shoreline on the inland side of the viscous sweep. 3.) Establish site as a staging area. 4.) Maintain site integrity over the course of the response. 5.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
SWST-2: [REDACTED] (CP 1)	ATV	ATV	3 each	
SWST-2: [REDACTED] (CP 1)	Boom Accessories	Anchor Stakes	80 each	
SWST-2: [REDACTED] (CP 1)	Manpower: Responder	Responder	10 each	
SWST-2: [REDACTED] (CP 1)	Security Guard	Security Guard	2 each	
SWST-2: [REDACTED] (CP 1)	Sorbent: Boom	Sorbent Boom	4000 feet	5 inch(es)
SWST-2: [REDACTED] (CP 1)	Viscous Sweep	Viscous Sweep	4000 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline. Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
SWST-2 is located to the western dead end of [REDACTED] ~3.8 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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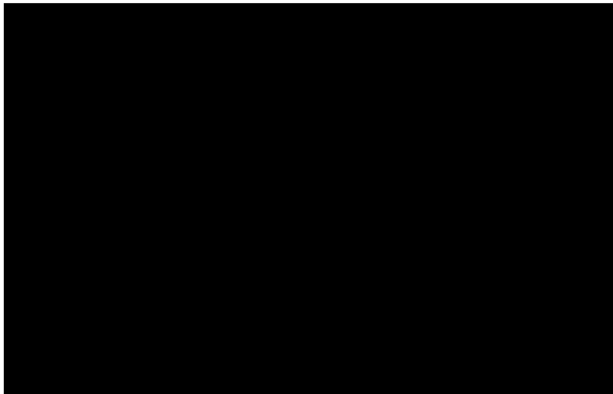
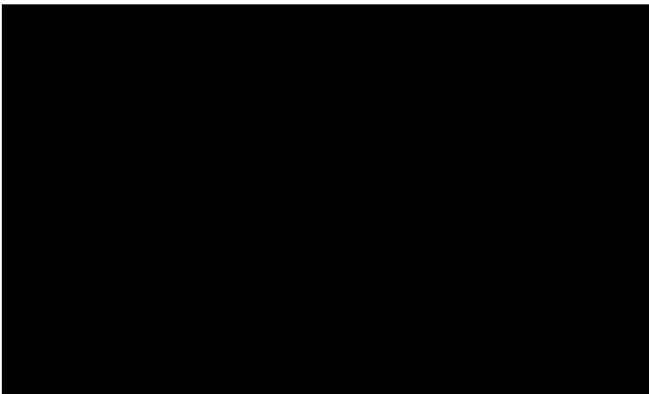
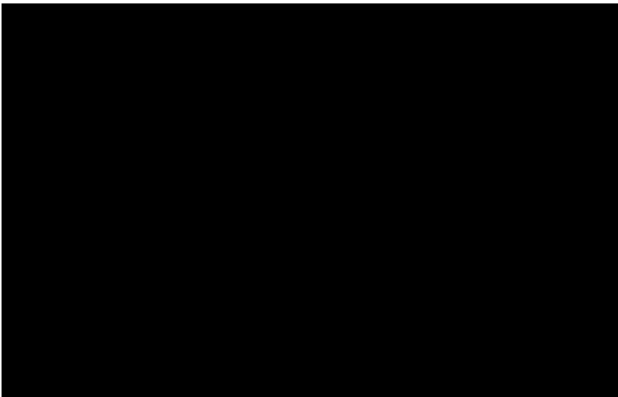
		Site Number: SWST-3 (CP 1477 - 5.1)	
		Site Name: [REDACTED]	
Division: Southwest Straits Division			
SITE INFORMATION			
Type of Site: Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Small parking area available. Protection along the shoreline of the cove residential area and creek north of the residences. Shoreline is mostly sandy with some rocks present.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Emmet	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: Wilderness State Park		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~5.1 Miles)		Nearest Boat Ramp & Distance: Big Stone Bay Boat Ramp ~4.25 Miles	
WATERWAY INFORMATION			
Type of Waterway: Bay/Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Sand	Bank Slope: Medium	Bank Height: ~4'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: ATV, Boat	Road Type: Unimproved	Road Surface: Dirt/Sand	Access Location: South Shoreline of Cecil Bay
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

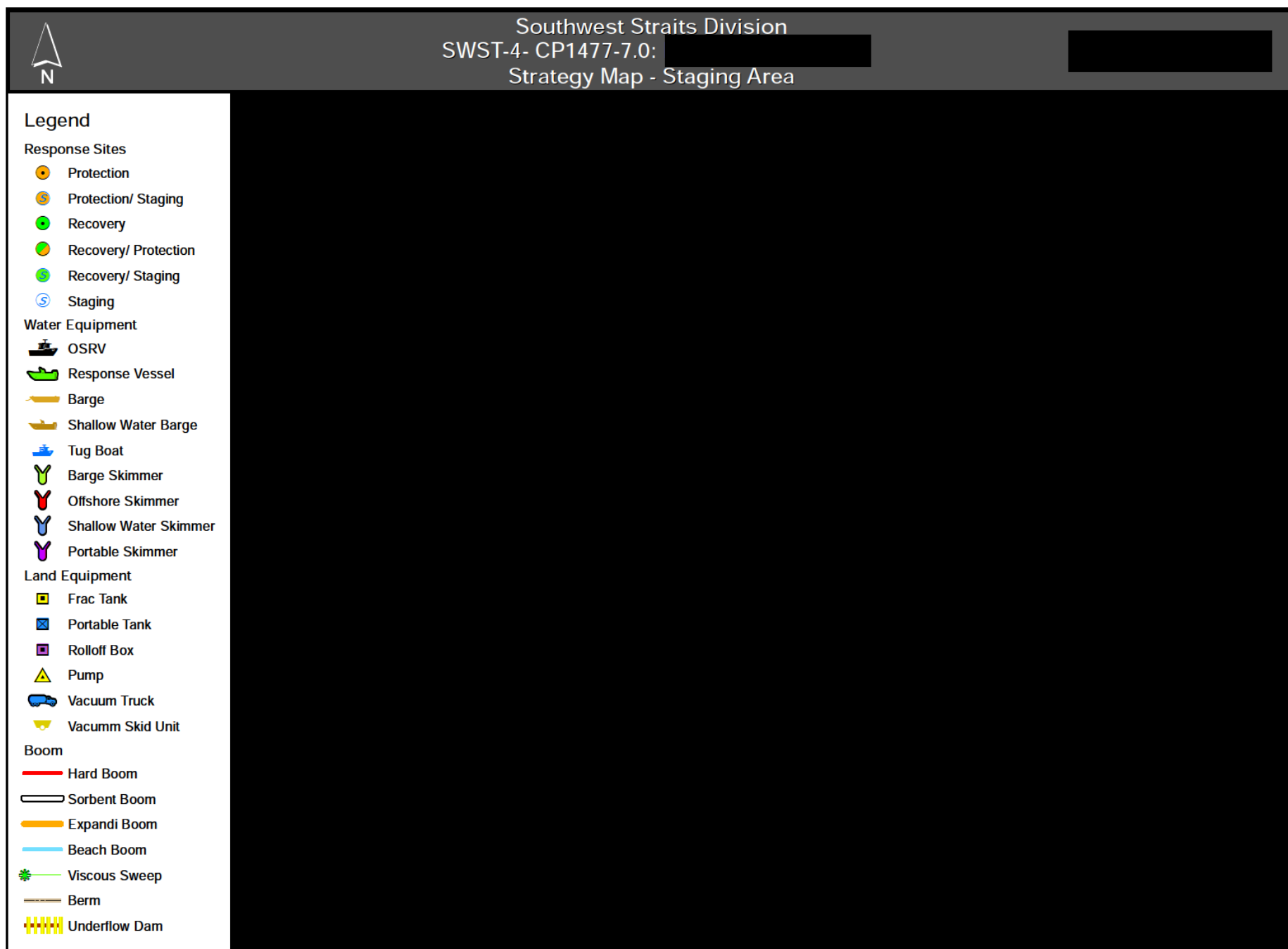
		<u>Site Number:</u> SWST-3 (CP 1477- 5.1) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southwest Straits Division	
SITE PHOTOGRAPHS			
			
1. Shoreline (Looking Southwest)		2. Shoreline (Looking Southwest)	
			
3. Shoreline (Looking Northeast)			
RESPONSE INFORMATION			
Deployment Strategy: Protection	High Water: Sorbent Booming	Low Water: Sorbent Booming	
Boom Required: 4300' SB, 4800' VS	Recovery Method: Debris	Tank Truck Access: Yes (Extra hose required)	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: SWST-3: [REDACTED] CP 1477-5.1		
Approved By Signature:				
Assignments				
1.) From the mouth of [REDACTED], deploy 2800' of viscous sweep to the south and 1500' of viscous sweep to the north along the shoreline. 2.) Deploy 4300' of sorbent boom along the shoreline on the inland side of the viscous sweep. 3.) Stage roll off box to store collected oiled debris.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
SWST-3: [REDACTED]	ATV	ATV	3 each	
SWST-3: [REDACTED]	Boom Accessories	Anchor Stakes	90 each	
SWST-3: [REDACTED]	Manpower: Responder	Responder	8 each	
SWST-3: [REDACTED]	Sorbent: Boom	Sorbent Boom	4300 feet	5 inch(es)
SWST-3: [REDACTED]	Storage: Solid	Roll Off Box	1 each	30 cubic yard
SWST-3: [REDACTED]	Viscous Sweep	Viscous Sweep	4300 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline. Manage a coordinated response effort.				
Location of Work				
SWST-3 is located at the mouth of the [REDACTED], ~5.1 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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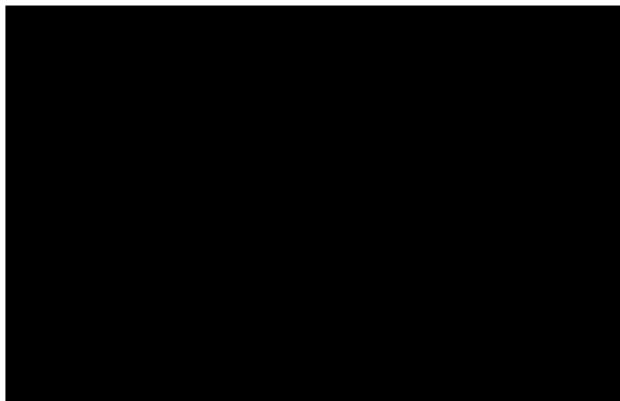
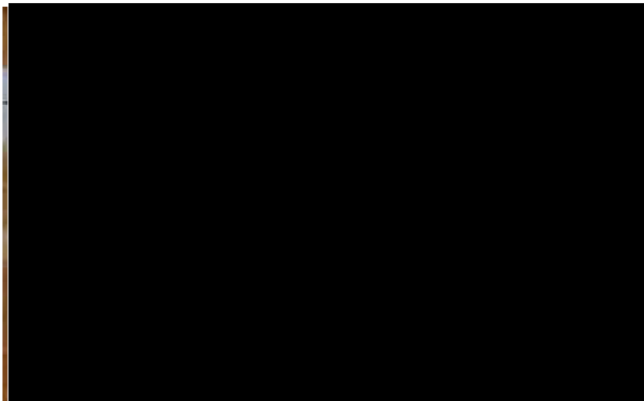
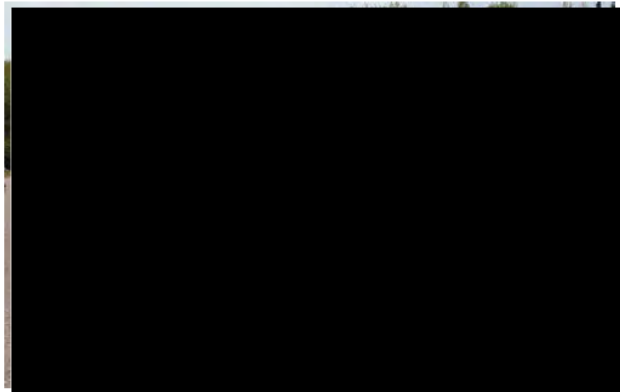
		Site Number: SWST-4 (CP 1477- 7.0)	
		Site Name: [REDACTED]	
Division: Southwest Straits Division			
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Staging is ~ 350' from shoreline via dirt path. WILDERNESS STATE PARK 903 Wilderness Park Drive Carp Lake, Michigan 49718 Phone: (231) 436-5381			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Emmet	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: Wilderness State Park		Staging Area Size: 475' X 75'	
Nearest Pipeline Crossing & Distance: Line 5 (~7.0 Miles)		Nearest Boat Ramp & Distance: [REDACTED] Boat Ramp ~4.25 Miles	
WATERWAY INFORMATION			
Type of Waterway: Bay/Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Sand	Bank Slope: Medium	Bank Height: ~4'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Secondary Highway	Road Surface: Paved	Access Location: South Shoreline of [REDACTED]
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

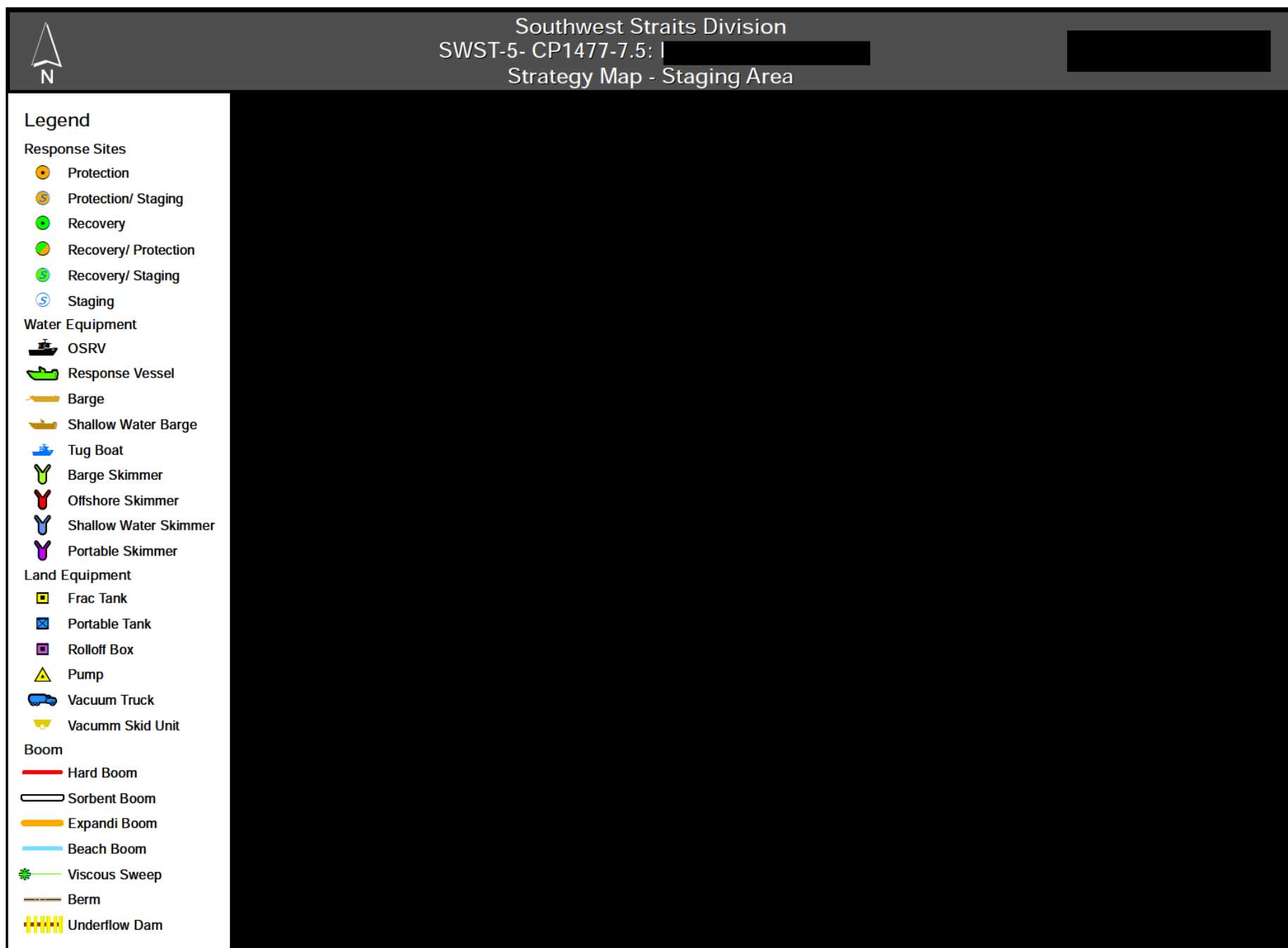
		<u>Site Number:</u> SWST-4 (CP 1477- 7.0) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southwest Straits Division	
SITE PHOTOGRAPHS			
			
1. Shoreline (Looking Southwest)		2. Shoreline (Looking Southwest)	
			
3. Shoreline (Looking Northeast)			
RESPONSE INFORMATION			
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A	
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: No	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: SWST-4: [REDACTED] (CP 1477-7.0)		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
SWST-4: [REDACTED]	Security Guard	Security Guard	2	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
SWST-4 is located in the southeast corner of [REDACTED] ~7.0 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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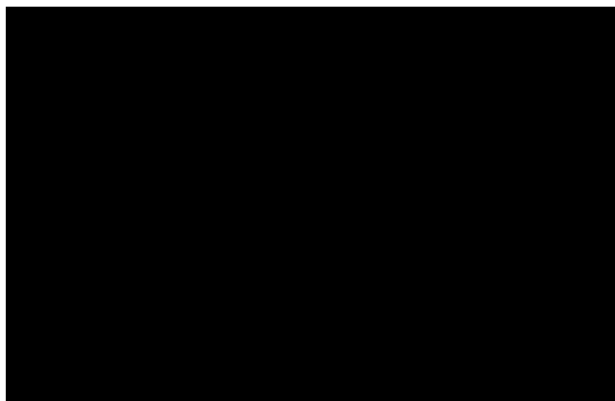
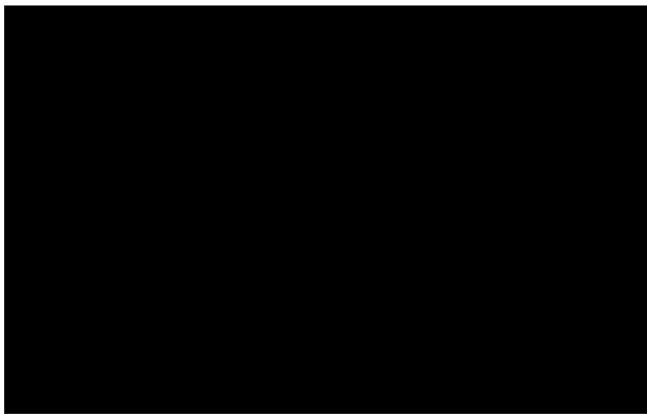
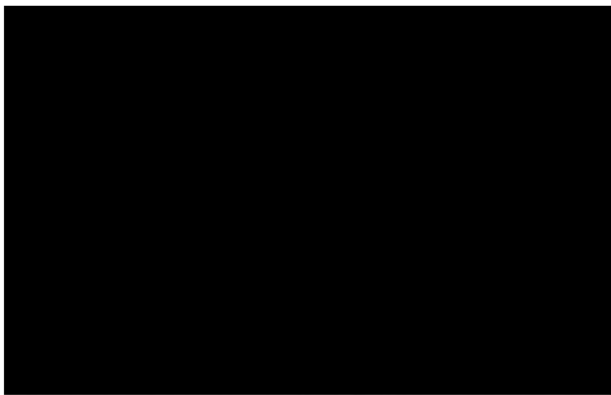
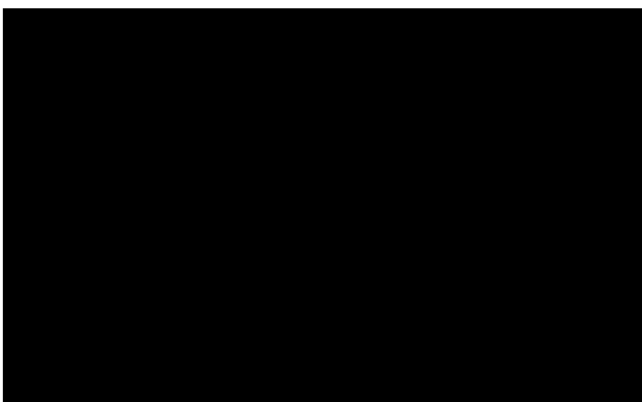
		Site Number: SWST-5 (CP 1477- 7.5) Site Name: [REDACTED]	
		Division: Southwest Straits Division	
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Good boat ramp and staging at site. WILDERNESS STATE PARK 903 Wilderness Park Drive Carp Lake, Michigan 49718 Phone: (231) 436-5381			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Emmet	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: Wilderness State Park		Staging Area Size: 250' X 100'	
Nearest Pipeline Crossing & Distance: Line 5 (~7.5 Miles)		Nearest Boat Ramp & Distance: Big Stone Bay Boat Ramp ~At Site	
WATERWAY INFORMATION			
Type of Waterway: Bay/Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Pier		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Sand	Bank Slope: Slight	Bank Height: ~3'	Existing Facilities: Boat Ramp
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Secondary Highway	Road Surface: Paved	Access Location: South Shoreline of [REDACTED]
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

		<u>Site Number:</u> SWST-5 (CP 1477- 7.5) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southwest Straits Division	
SITE PHOTOGRAPHS			
			
1. Boat Ramp (Looking Northeast)		2. Emergency Contact Numbers (Looking West)	
			
3. Parking Area (Looking South)			
RESPONSE INFORMATION			
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A	
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: SWST-5: [REDACTED] (CP 1477-7.5)		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
SWST-5: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
SWST-5 is located in the southwest corner of [REDACTED] ~7.5 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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		Site Number: SWST-6 (CP 1477- 9.9) Site Name: [REDACTED]	
		Division: Southwest Straits Division	
SITE INFORMATION			
Type of Site: Protection/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Abandoned boat ramp is not usable WILDERNESS STATE PARK 903 Wilderness Park Drive Carp Lake, Michigan 49718 Phone: (231) 436-5381			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Emmet	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: Wilderness State Park		Staging Area Size: 200' X 75'	
Nearest Pipeline Crossing & Distance: Line 5 (~9.9 Miles)		Nearest Boat Ramp & Distance: Big Stone Bay Boat Ramp ~3.5 Miles	
WATERWAY INFORMATION			
Type of Waterway: Bay/Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Sand	Bank Slope: Medium	Bank Height: ~3'	Existing Facilities: Parking Area
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Light Duty	Road Surface: Gravel/Sand	Access Location: South Shoreline of Lake Michigan
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

		<u>Site Number:</u> SWST-6 (CP 1477- 9.9) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southwest Straits Division	
SITE PHOTOGRAPHS			
			
1. Shoreline (Looking North)		2. Staging Area (Looking North)	
			
3. Abandoned Boat Ramp (Looking North)		4. Endangered Species Sign (Looking Northwest)	
RESPONSE INFORMATION			
Deployment Strategy: Protection	High Water: Sorbent/Viscous	Low Water: Sorbent/Viscous	
Boom Required: 3500' SB, 3500' VS	Recovery Method: Debris	Tank Truck Access: Yes (extra hose required)	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: SWST-6: [REDACTED] (CP 1477-9.1)		
Approved By Signature:				
Assignments				
1.) Deploy 3500' of viscous sweep to the north of [REDACTED] along the shoreline. 2.) Deploy 3500' of sorbent boom along the shoreline on the inland side of the viscous sweep. 3.) Establish site as a staging area. 4.) Maintain site integrity over the course of the response. 5.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
SWST-6: [REDACTED]	ATV	ATV	2 each	
SWST-6: [REDACTED]	Boom Accessories	Anchor Stakes	70 each	
SWST-6: [REDACTED]	Manpower: Responder	Responder	6 each	
SWST-6: [REDACTED]	Manpower: Responder	Security Guard	2 each	
SWST-6: [REDACTED]	Sorbent: Boom	Sorbent Boom	3500 feet	5 inch(es)
SWST-6: [REDACTED]	Storage: Solid	Roll off box	1 each	30 cubic yard
SWST-6: [REDACTED]	Viscous Sweep	Viscous Sweep	3500 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline. Manage a coordinated response effort.				
Location of Work				
SWST-6 is located to the north of [REDACTED] ~9.9 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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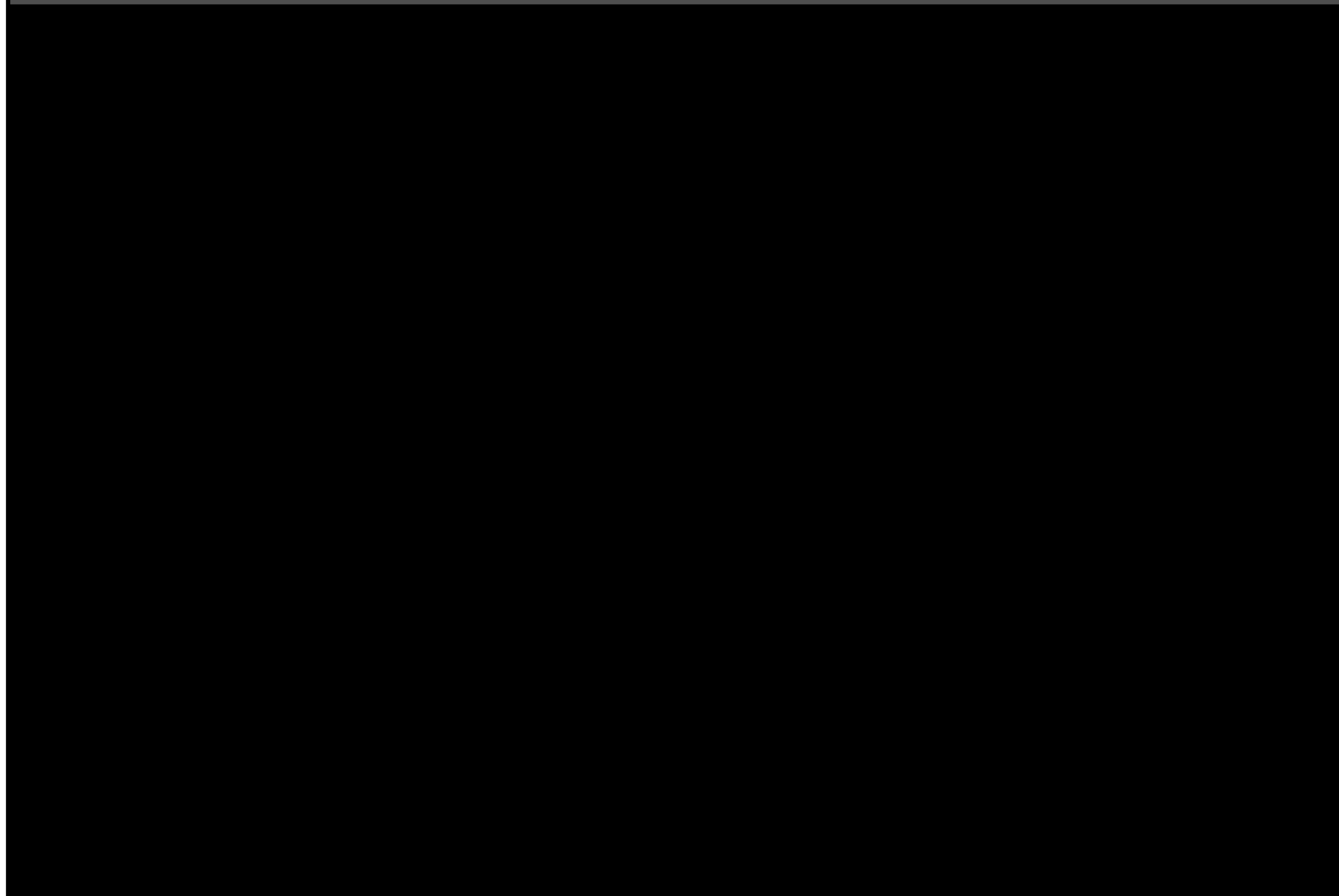
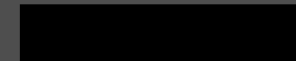


*Straits of Mackinac
Tactical Response Plan*

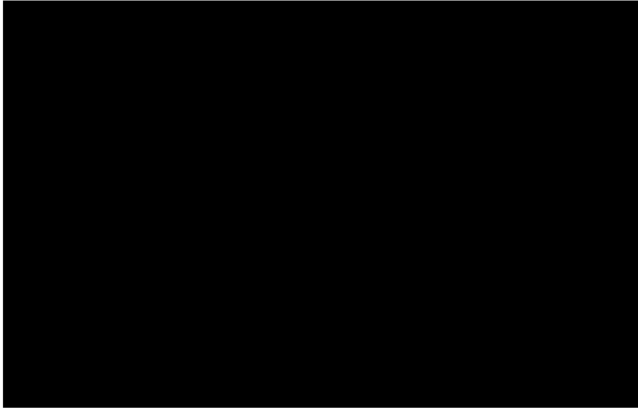
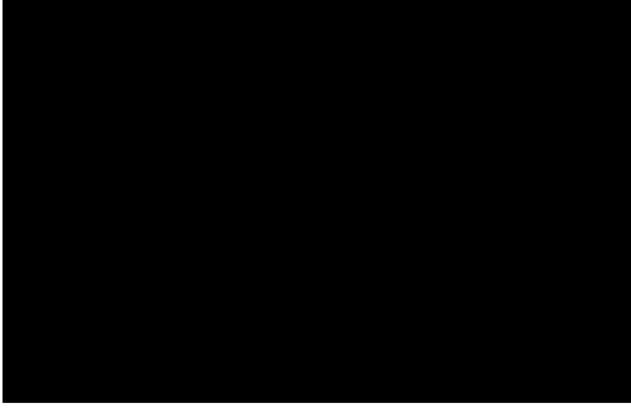
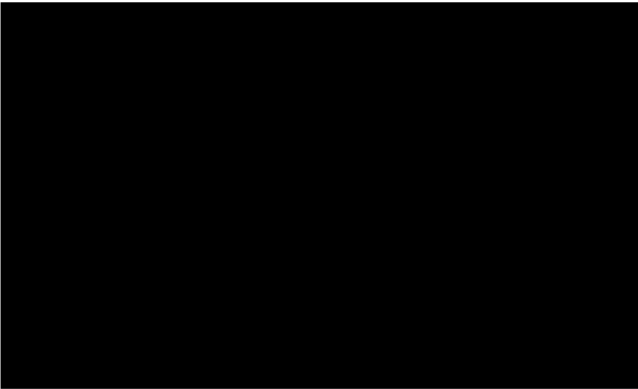
Southeast Straits Division				
Site ID	Name	Drainage System	Type of Site	Distance From Source
SEST-1		Lake Michigan	Protection	1.9 miles
SEST-2		Lake Huron	Recovery/ Staging	2.2 miles
SEST-3		Lake Huron	Protection/ Staging	2.8 miles
SEST-4		Lake Huron	Protection/ Staging	3.2 miles
SEST-5		Lake Huron	Protection/ Staging	3.5 miles
SEST-6		Lake Huron	Protection/ Staging	3.8 miles
SEST-7		Lake Huron	Protection/ Staging	4.0 miles
SEST-8		Lake Huron	Protection	5.7 miles
Gray highlight = potential staging area				

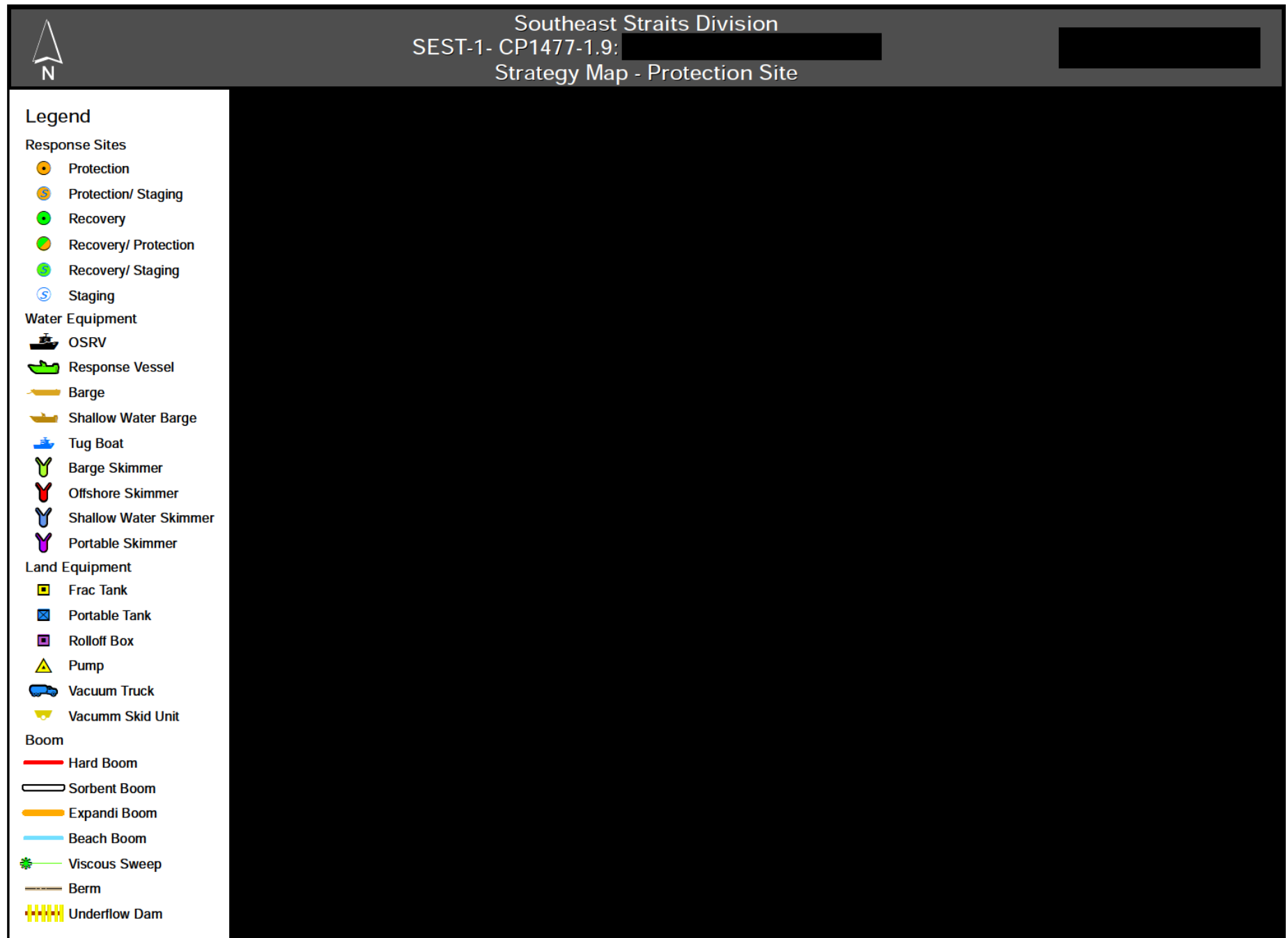


Straits of Mackinac Response Plan
Southeast Straits Division



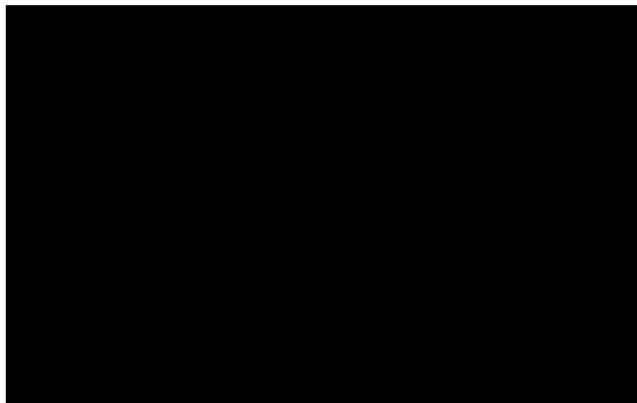
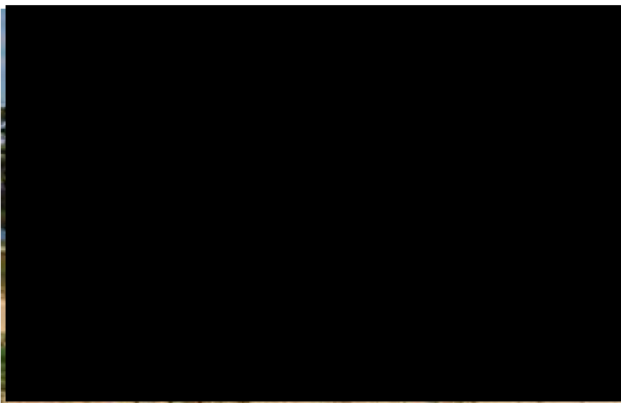
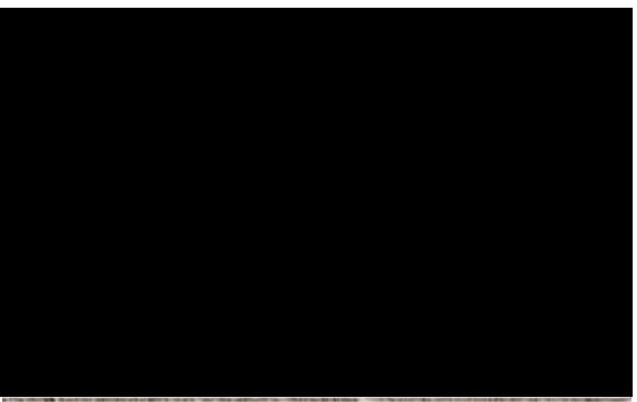
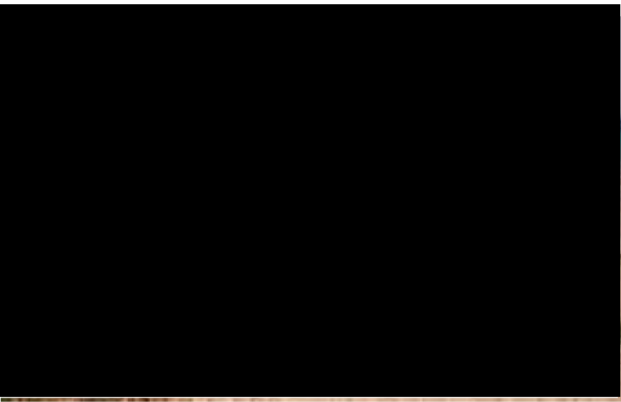
		Site Number: SEST-1 (CP 1477- 1.9)	
		Site Name: [REDACTED]	
		Division: Southeast Straits Division	
SITE INFORMATION			
Type of Site: Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. [REDACTED]		Village of Mackinaw City 102 South Huron Avenue Mackinaw City, MI 49701 Phone: (231) 436-5351	
		Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]	
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
		Land Use: Recreational	
Nearby Sensitivities: [REDACTED]		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~1.9 Miles)		Nearest Boat Ramp & Distance: Municipal Marina Boat Ramp ~1 Mile	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat, ATV	Road Type: Unimproved	Road Surface: Sand	Access Location: South Shoreline Lake Michigan
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

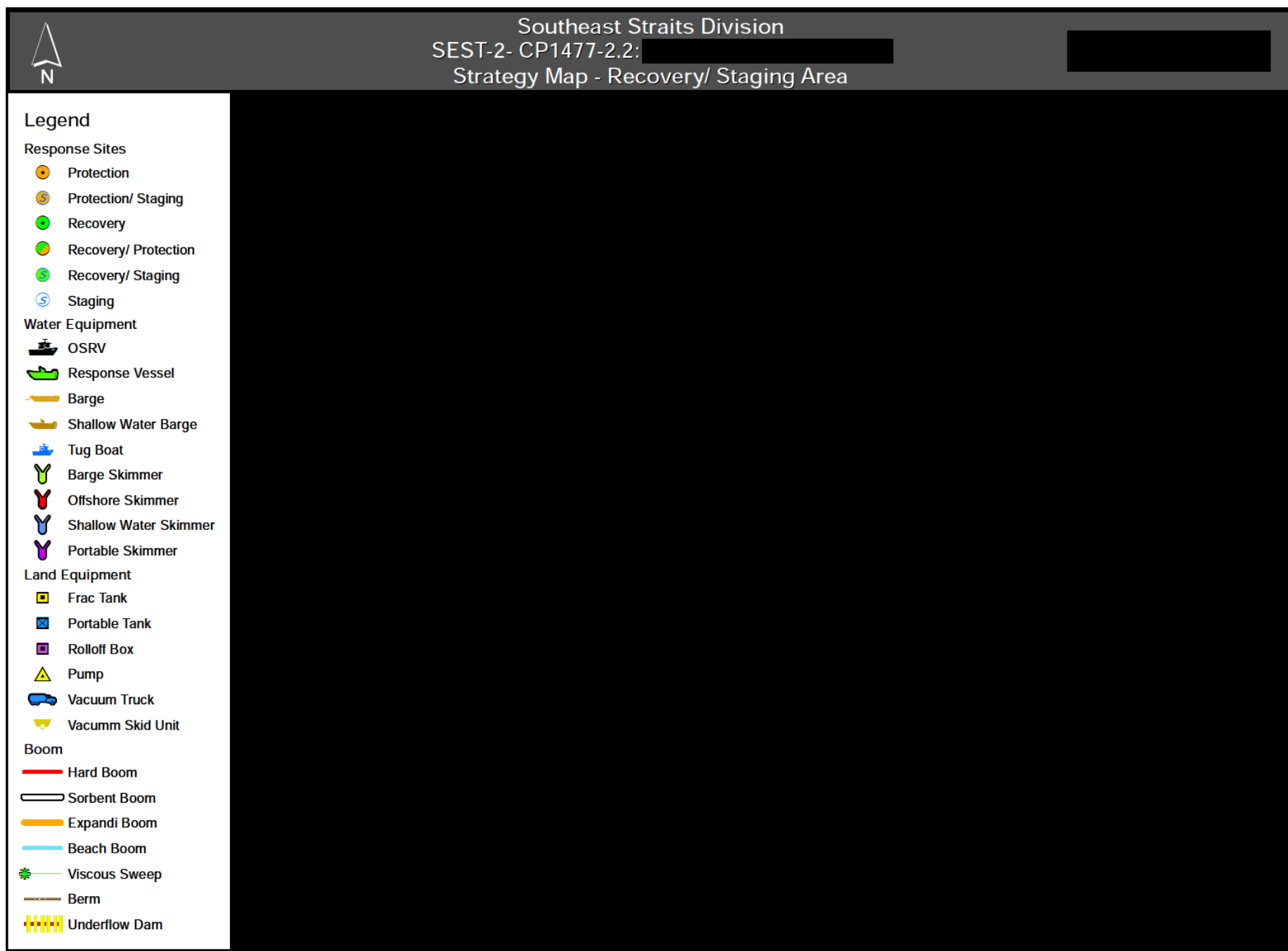
		<u>Site Number:</u> SEST-1 (CP 1477- 1.9) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Fort Beach Area (Looking South)		2. Fort Beach Area (Looking South)	
			
3. Fort Beach Area (Looking Southwest)			
RESPONSE INFORMATION			
Deployment Strategy: Protection	High Water: Sorbent Booming	Low Water: Sorbent Booming	
Boom Required: 4000' SB, 4000' VS	Recovery Method: Debris	Tank Truck Access: No	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: SEST-1: [REDACTED] (CP 147)		
Approved By Signature:				
Assignments				
1.) Deploy 4000' of viscous sweep west from the Mackinaw Bridge along the shoreline across Fort Michilimackinac State Park beach area. 2.) Deploy 4000' of sorbent boom along the shoreline on the inland side of the viscous sweep.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
SEST-1: [REDACTED]	Boom Accessories	Anchor Stakes	80 each	
SEST-1: [REDACTED]	Manpower: Responder	Responder	8 each	
SEST-1: [REDACTED]	Sorbent: Boom	Sorbent Boom	4000 feet	5 inch(es)
SEST-1: [REDACTED]	Viscous Sweep	Viscous Sweep	4000 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline. Manage a coordinated response effort.				
Location of Work				
SEST-1 is located at the intersection of [REDACTED], ~1.9 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:36	Page 1 of 1	© 1997-2012 dbSoft, Inc.

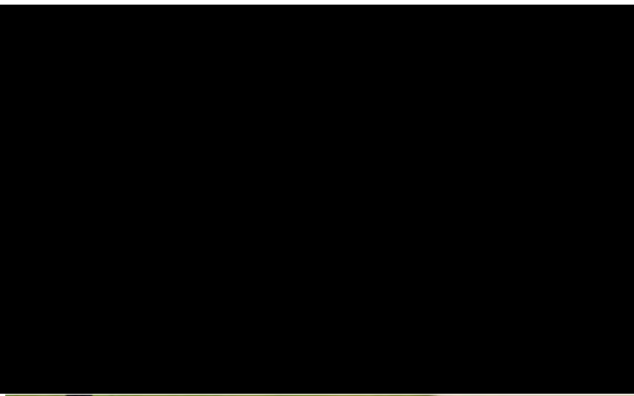
		Site Number: SEST-2 (CP 1477- 2.2)	
		Site Name: [REDACTED]	
Division: Southeast Straits Division			
SITE INFORMATION			
Type of Site: Recovery/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Village of Mackinaw City 102 South Huron Avenue Mackinaw City, MI 49701 Phone: (231) 436-5351			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: [REDACTED], Historic Lighthouse, Tourist Attractions		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~2.2 Miles)		Nearest Boat Ramp & Distance: Municipal Marina Boat Ramp ~1 Mile	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat, ATV	Road Type: Unimproved	Road Surface: Sand	Access Location: South Shoreline Lake Huron
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

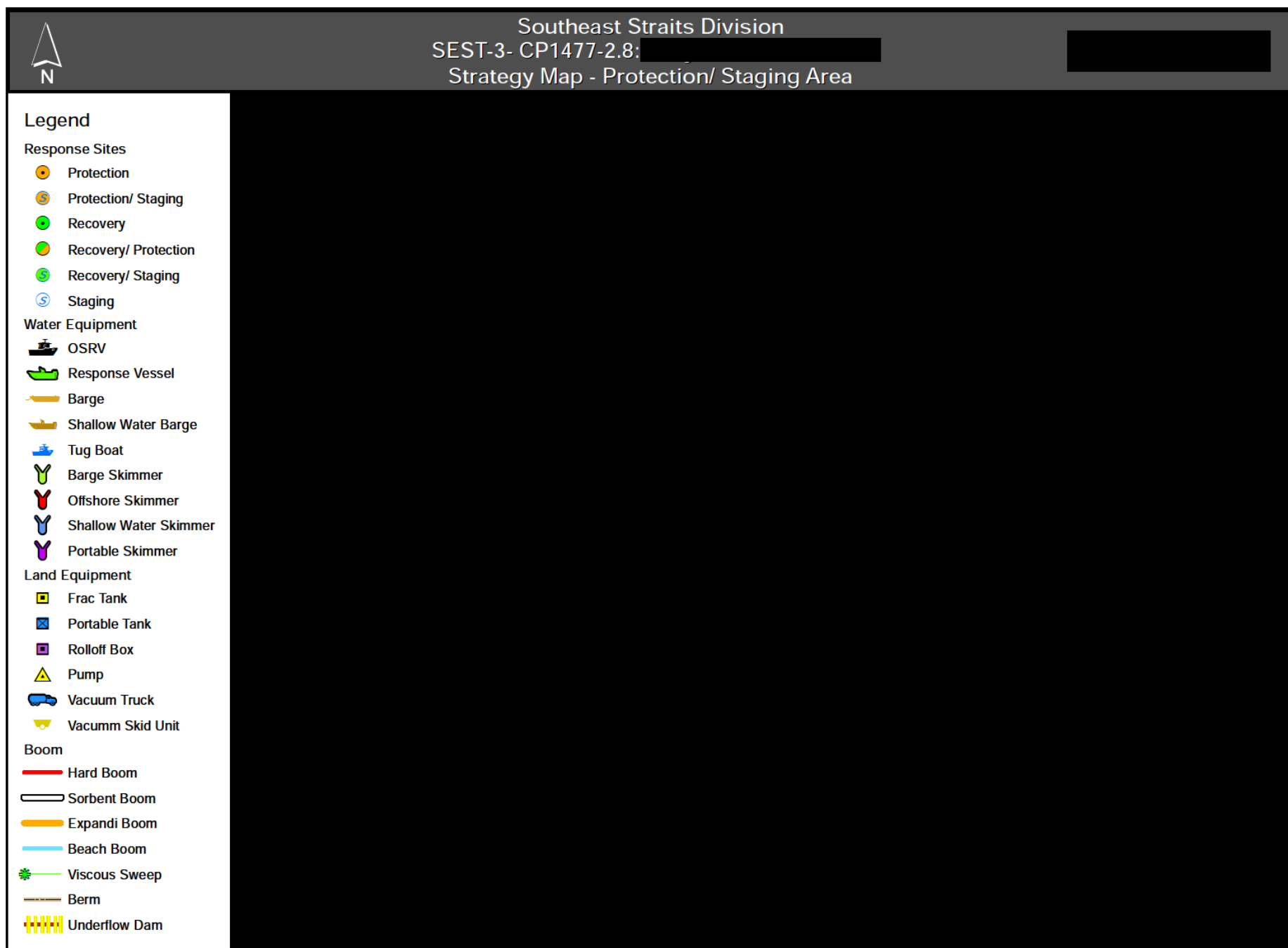
		<u>Site Number:</u> SEST-2 (CP 1477- 2.2) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Collection Area (Looking East)		2. Beach Area (Looking West)	
			
3. Beach Area (Looking East)		4. Beach Area (Looking Northeast)	
RESPONSE INFORMATION			
Deployment Strategy: Recovery/Staging		High Water: Booming	Low Water: Booming
Boom Required: 600' HB, 2400' SB, 2400' VS		Recovery Method: Skimmer, Debris	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: SEST-2: [REDACTED] (CP 1477-2)		
Approved By Signature:				
Assignments				
1.) Deploy 2400' of viscous sweep east from the [REDACTED] along the shoreline. 2.) Deploy 2400' of sorbent boom along the shoreline on the inland side of the viscous sweep. 3.) Deploy 600' of hard boom north into the water from the east end of the sorbent boom. 4.) Establish site as a staging area. 5.) Maintain site integrity over the course of the response. 6.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
SEST-2: [REDACTED]	Boom	Hard Boom	600 feet	18 inch(es)
SEST-2: [REDACTED]	Boom Accessories	Boom Anchors	12 each	40 pound(s)
SEST-2: [REDACTED]	Boom Accessories	Anchor Stakes	55 each	
SEST-2: [REDACTED]	Manpower: Operator	Boat Operator	3 each	
SEST-2: [REDACTED]	Manpower: Responder	Responder	8 each	
SEST-2: [REDACTED]	Security Guard	Security Guard	2 each	
SEST-2: [REDACTED]	Skimmer	Shallow Water Skimmer	1 each	
SEST-2: [REDACTED]	Sorbent: Boom	Sorbent Boom	2400 feet	5 inch(es)
SEST-2: [REDACTED]	Vessel	Response Vessel	1 each	20 feet
SEST-2: [REDACTED]	Vessel	Jon Boat	2 each	14 feet
SEST-2: [REDACTED]	Viscous Sweep	Viscous Sweep	2400 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline. Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
SEST-2 is located north of the intersection of [REDACTED], ~2.2 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/2/2012 09:07	Page 1 of 1	© 1997-2012 dbSoft, Inc.

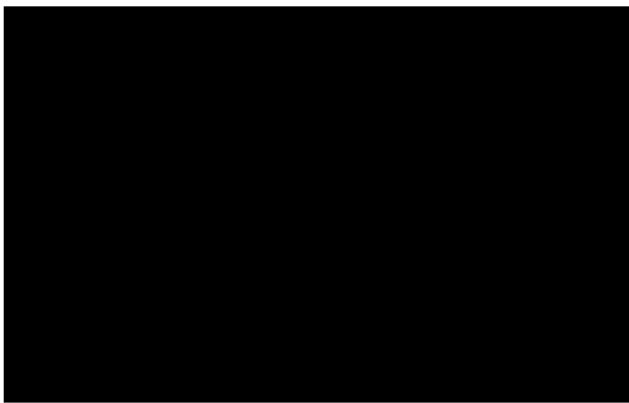
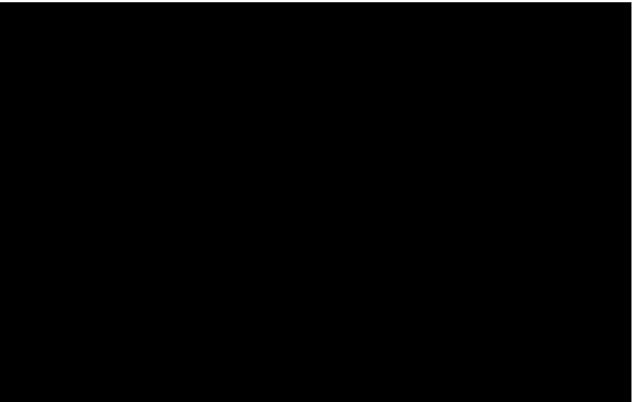
		Site Number: SEST-3 (CP 1477- 2.8) Site Name: [REDACTED]	
		Division: Southeast Straits Division	
SITE INFORMATION			
Type of Site: Protection/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Multiple access points between residences along the beach. Village of Mackinaw City 102 South Huron Avenue Mackinaw City, MI 49701 Phone: (231) 436-5351			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: Residences, Parks (Gary R. Williams, Maritime, and Straits View)		Staging Area Size: 50' X 50'	
Nearest Pipeline Crossing & Distance: Line 5 (~2.8 Miles)		Nearest Boat Ramp & Distance: Municipal Marina Boat Ramp ~0.5 Mile	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand	Bank Slope: Slight	Bank Height: ~1'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat, Road	Road Type: Secondary Highway	Road Surface: Paved	Access Location: West Shoreline Lake Huron
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

		<u>Site Number:</u> SEST-3 (CP 1477- 2.8) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southeast Straits Division	
SITE PHOTOGRAPHS			
			
1. [REDACTED] Beach Area (Looking East)		2. Straits View Park Beach Area (Looking Northwest)	
			
3. Maritime Park Beach Area (Looking East)		4. Beach Area (Looking Southeast)	
RESPONSE INFORMATION			
Deployment Strategy: Protection/Staging	High Water: Sorbent Booming	Low Water: Sorbent Booming	
Boom Required: 3200' SB, 3200' VS	Recovery Method: Debris	Tank Truck Access: No	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: SEST-3: [REDACTED] (CP 1477-2.8)		
Approved By Signature:				
Assignments				
1.) Deploy 3200' of viscous sweep north from the marina along the shoreline across the various parks and residences. 2.) Deploy 3200' of sorbent boom along the shoreline on the inland side of the viscous sweep. 3.) Establish site as a staging area. 4.) Maintain site integrity over the course of the response. 5.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
SEST-3: [REDACTED]	Boom Accessories	Anchor Stakes	40 each	
SEST-3: [REDACTED]	Manpower: Responder	Responder	6 each	
SEST-3: [REDACTED]	Security Guard	Security Guard	2 each	
SEST-3: [REDACTED]	Sorbent: Boom	Sorbent Boom	3200 feet	5 inch(es)
SEST-3: [REDACTED]	Viscous Sweep	Viscous Sweep	3200 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline. Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
SEST-3 is located east of the intersection at [REDACTED] ~2.8 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:37	Page 1 of 1	© 1997-2012 dbSoft, Inc.

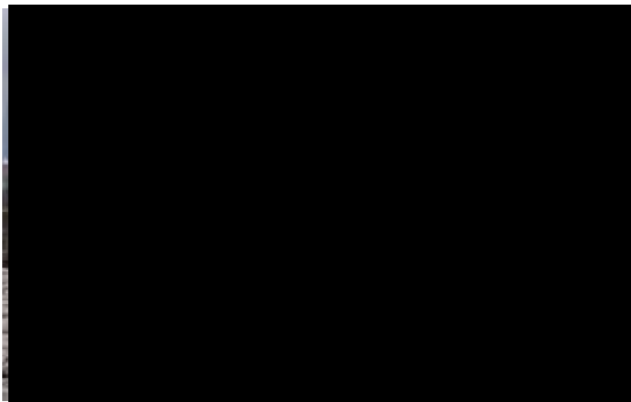
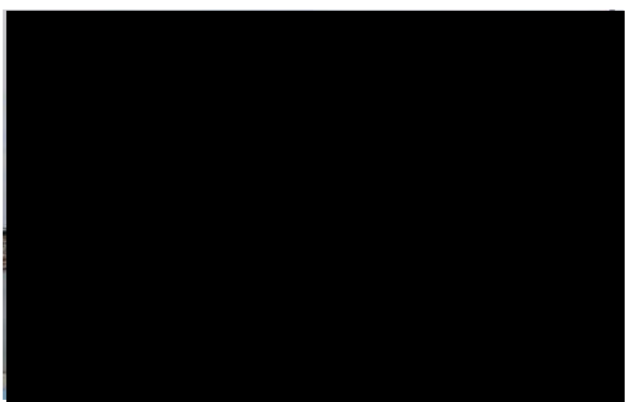
		Site Number: SEST-4 (CP 1477- 3.2) Site Name: [REDACTED]	
		Division: Southeast Straits Division	
SITE INFORMATION			
Type of Site: Protection/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: 175' X 300'	
Nearest Pipeline Crossing & Distance: Line 5 (~3.2 Miles)		Nearest Boat Ramp & Distance: [REDACTED] Boat Ramp ~ At Site	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Boat Slips, Barriers		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Bulkhead/Rock	Bank Slope: Steep	Bank Height: ~10'	Existing Facilities: Parking, Electricity, Restrooms, Limited Lighting
ACCESS INFORMATION			
Type of Access: Boat, Road	Road Type: Secondary Highway	Road Surface: Paved	Access Location: West Shoreline Lake Huron
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

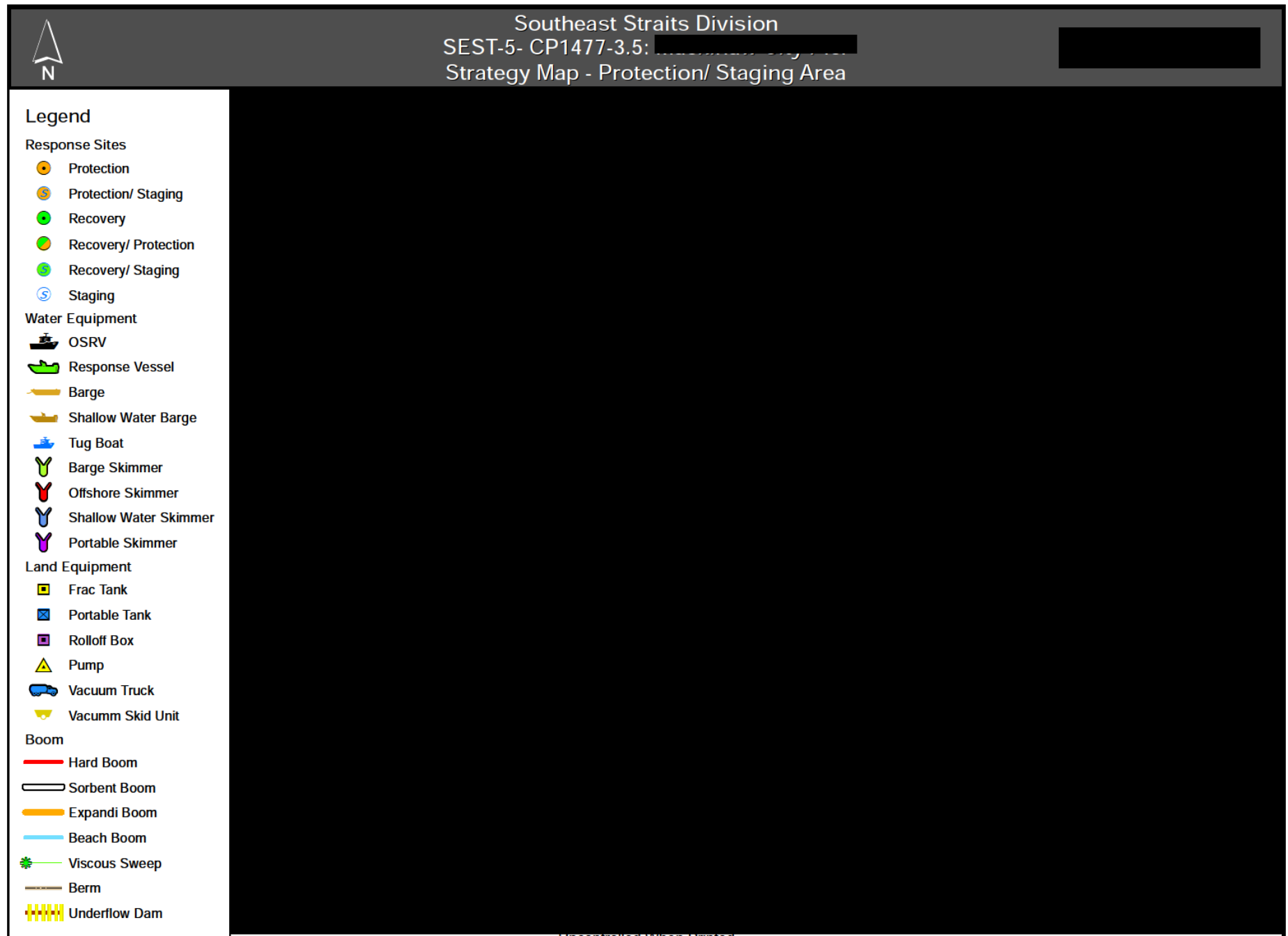
		<u>Site Number:</u> SEST-4 (CP 1477- 3.2) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Boat Ramp (Looking East)		2. Staging Area (Looking Northwest)	
			
3. [REDACTED] Sign (Looking Southeast)		4. Staging Area (Looking West)	
RESPONSE INFORMATION			
Deployment Strategy: Protection/Staging	High Water: Booming	Low Water: Booming	
Boom Required: 600' HB	Recovery Method: N/A	Tank Truck Access: Yes	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: SEST-4: [REDACTED] (CP 1477-3.2)		
Approved By Signature:					
Assignments					
1.) Deploy 600' of hard boom across the mouth of the municipal marina. 2.) Establish site as a staging area. 3.) Maintain site integrity over the course of the response. 4.) Manage check-in and check-out of resources.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
SEST-4: [REDACTED]	Boom	Hard Boom	600 feet	18 inch(es)	
SEST-4: [REDACTED]	Boom Accessories	Anchor Stakes	4 each		
SEST-4: [REDACTED]	Boom Accessories	Boom Anchors	12 each	40 pound(s)	
SEST-4: [REDACTED]	Manpower: Operator	Boat Operator	1 each		
SEST-4: [REDACTED]	Manpower: Responder	Responder	4 each		
SEST-4: [REDACTED]	Security Guard	Security Guard	2 each		
SEST-4: [REDACTED]	Vessel	Jon Boat	1 each	14 feet	
Tactical Objective					
Prevent spilled material from impacting the shoreline. Establish site as a staging area. Manage a coordinated response effort.					
Location of Work					
SEST-4 is located east of the intersection of [REDACTED] 3.2 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
ICS 204 - Assignment List		Printed: 11/3/2012 01:37		Page 1 of 1	
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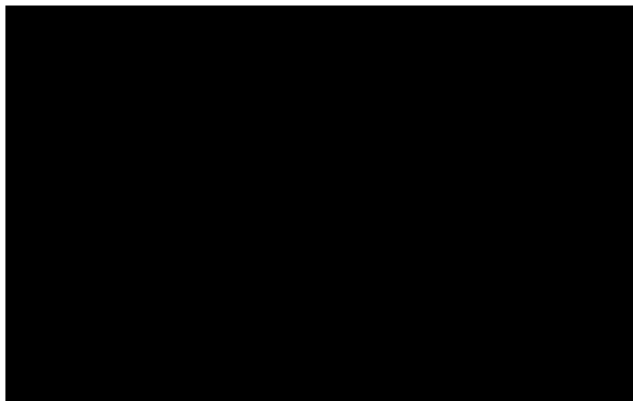
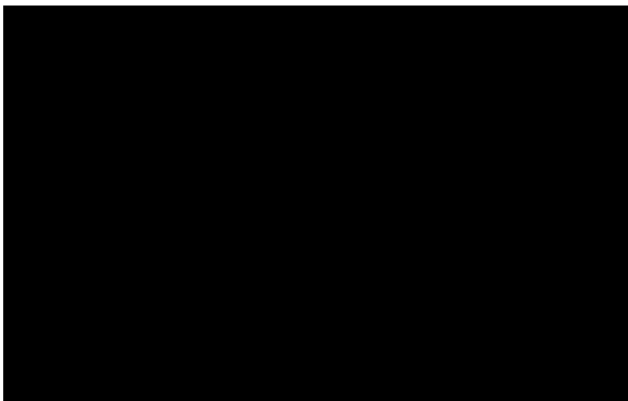
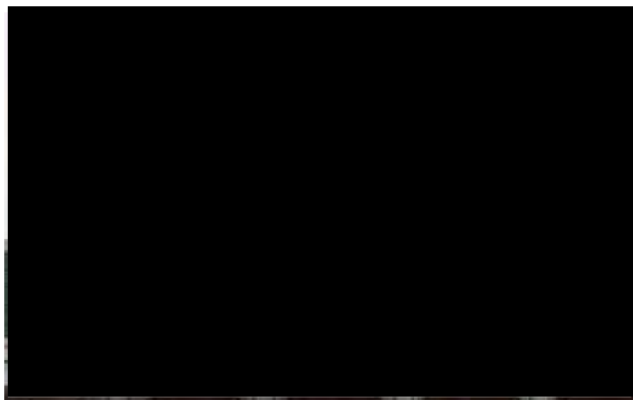
		Site Number: SEST-5 (CP 1477- 3.5) Site Name: [REDACTED]	
		Division: Southeast Straits Division	
SITE INFORMATION			
Type of Site: Protection/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Multiple parking lots for staging. Boat Ramp. [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: [REDACTED] USCG Vessel Station		Staging Area Size: 250' X 1200'	
Nearest Pipeline Crossing & Distance: Line 5 (~3.5 Miles)		Nearest Boat Ramp & Distance: [REDACTED] Boat Ramp ~ At Site	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Boat Slips, Barriers		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Bulkhead/Rock	Bank Slope: Steep	Bank Height: ~12'	Existing Facilities: Boat Ramp, Parking, Electricity, Restrooms, Lighting
ACCESS INFORMATION			
Type of Access: Boat, Road	Road Type: Secondary Highway	Road Surface: Paved	Access Location: West Shoreline Lake Huron
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

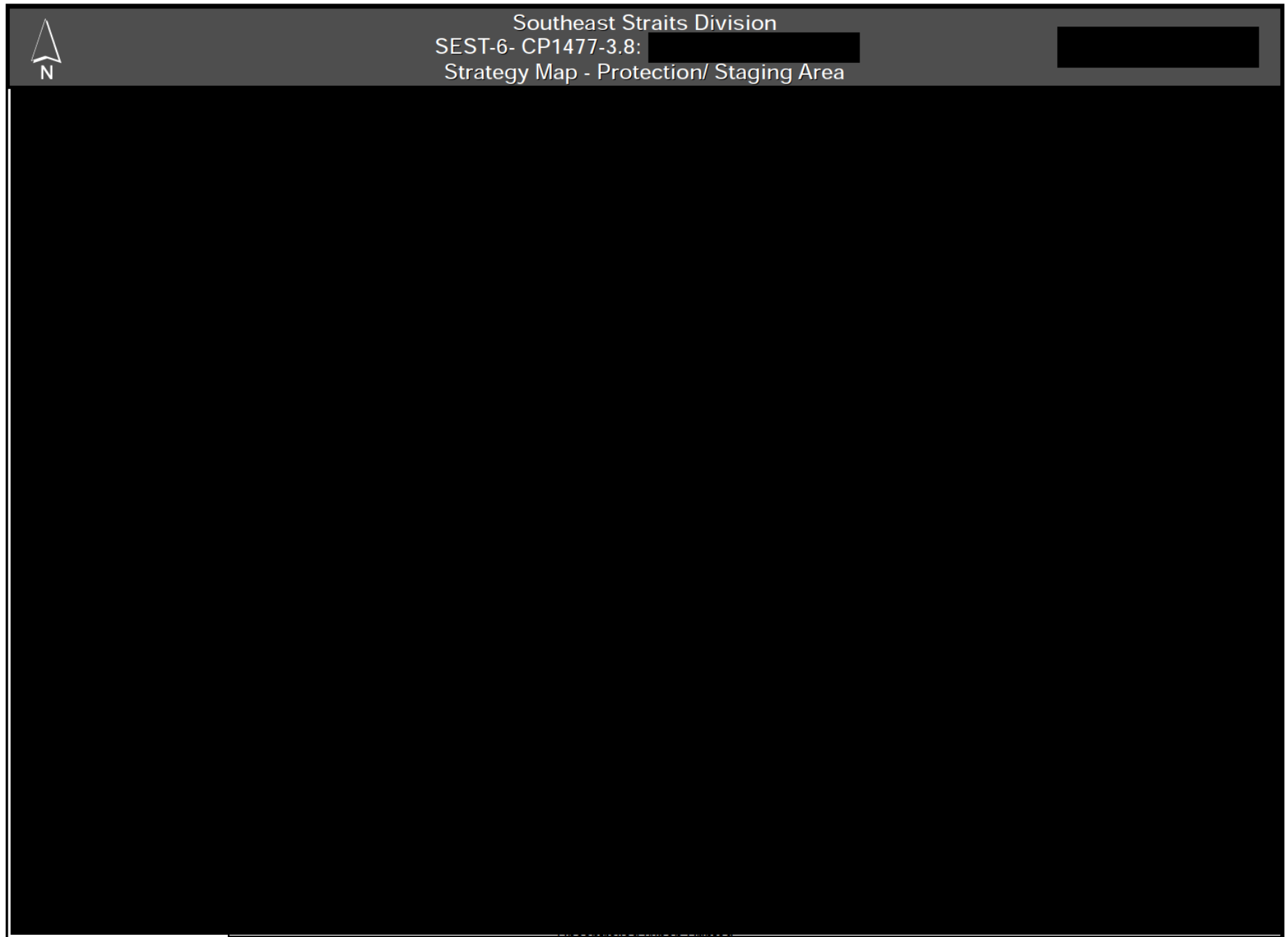
		<u>Site Number:</u> SEST-5 (CP 1477- 3.5) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Boat Ramp (Looking North)		2. Staging Area (Looking West)	
			
3. [REDACTED] (Looking Southwest)		4. Marina (and USCG Vessel) (Looking Northeast)	
RESPONSE INFORMATION			
Deployment Strategy: Protection/Staging		High Water: Booming	Low Water: Booming
Boom Required: 1500' HB, 2300' VS		Recovery Method: N/A	Tank Truck Access: Yes
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: SEST-5: [REDACTED] (CP 1477-3.5)		
Approved By Signature:				
Assignments				
1.) Deploy (3) 500' sections of hard boom in a staggered configuration from the [REDACTED] to the southeast as shown on the associated strategy map. 2.) Deploy 1400' of viscous sweep along the shoreline from [REDACTED] 3.) From the south side of [REDACTED] deploy 900' of viscous sweep south along the shoreline. 4.) Establish site as a staging area. 5.) Maintain site integrity over the course of the response. 6.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
SEST-5: [REDACTED]	Boom	Hard Boom	1500 feet	18 inch(es)
SEST-5: [REDACTED]	Boom Accessories	Boom Anchors	30 each	40 pound(s)
SEST-5: [REDACTED]	Boom Accessories	Anchor Stakes	25 each	
SEST-5: [REDACTED]	Manpower: Operator	Boat Operator	1 each	
SEST-5: [REDACTED]	Manpower: Responder	Responder	10 each	
SEST-5: [REDACTED]	Security Guard	Security Guard	2 each	
SEST-5: [REDACTED]	Vessel	Jon Boat	1 each	14 feet
SEST-5: [REDACTED]	Viscous Sweep	Viscous Sweep	2300 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline. Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
SEST-5 is located east of the intersection of [REDACTED] ~3.5 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:37	Page 1 of 1	© 1997-2012 dbSoft, Inc.

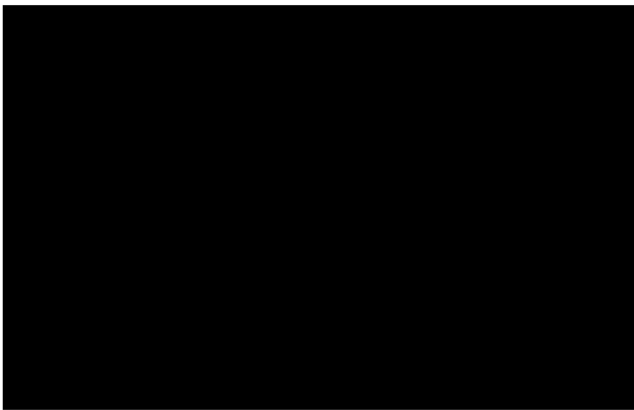
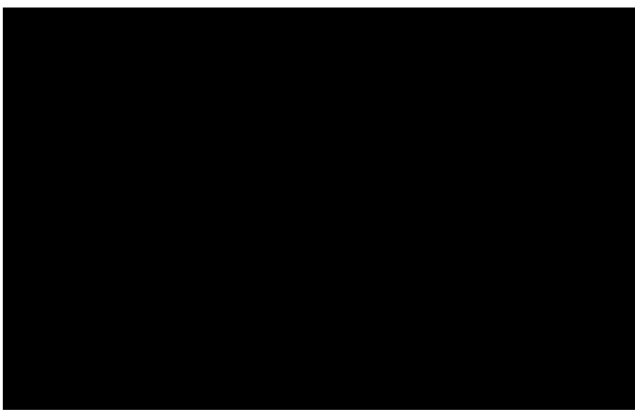
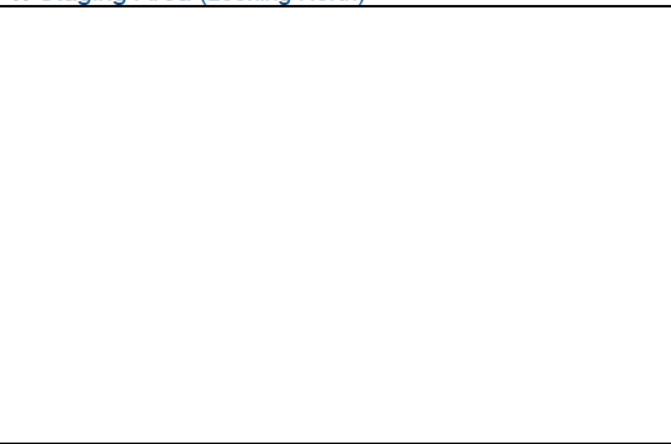
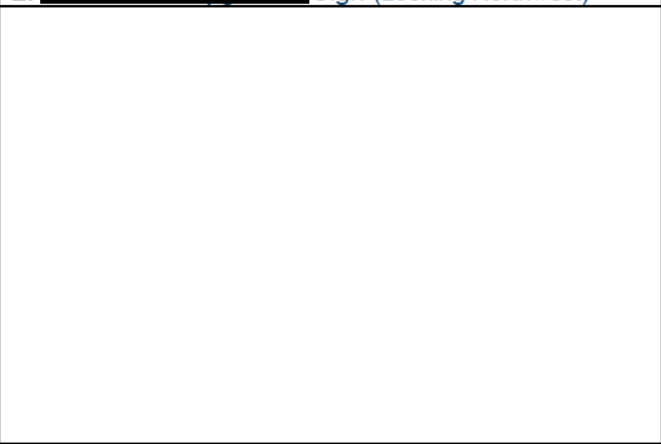
		Site Number: SEST-6 (CP 1477- 3.8) Site Name: [REDACTED]	
		Division: Southeast Straits Division	
SITE INFORMATION			
Type of Site: Protection/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Arnold Ferry Transit Dock 801 South Huron Avenue Mackinaw City, MI 49701 (231) 436-5542			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: Beach area along residences. Ferry to [REDACTED]		Staging Area Size: 80' X 900'	
Nearest Pipeline Crossing & Distance: Line 5 (~3.8 Miles)		Nearest Boat Ramp & Distance: [REDACTED] Pier Boat Ramp ~ 1 Mile	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Bulkhead/Rock	Bank Slope: Steep	Bank Height: ~10'	Existing Facilities: Boat Ramp, Parking, Electricity, Restrooms, Lighting,
ACCESS INFORMATION			
Type of Access: Boat, Road	Road Type: Secondary Highway	Road Surface: Paved	Access Location: West Shoreline Lake Huron
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

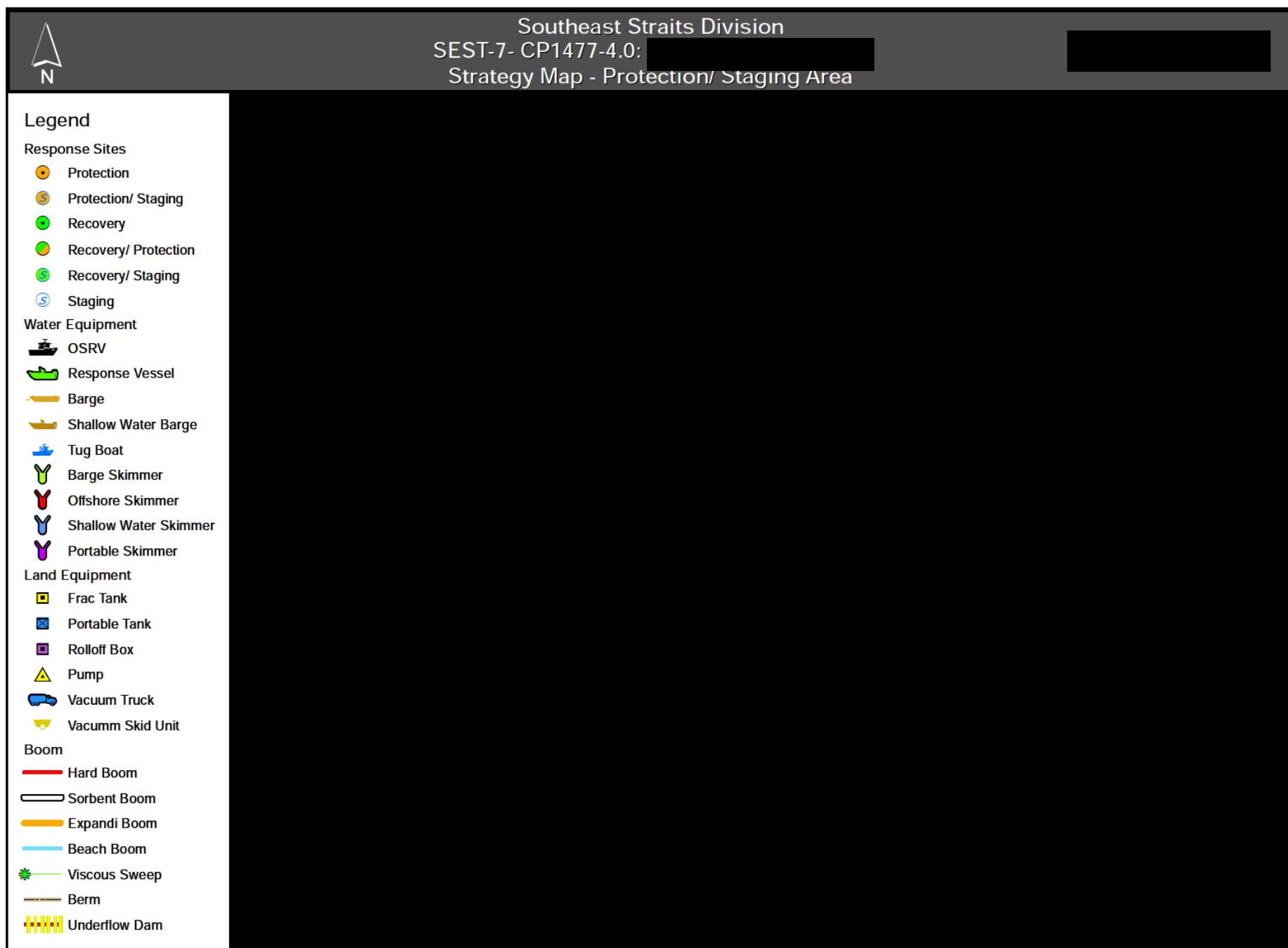
		<u>Site Number:</u> SEST-6 (CP 1477- 3.8) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Staging Area (Looking West)		2. End of Dock (Looking East)	
			
3. [REDACTED] Sign (Looking South)		4. Beach Area (Looking South)	
RESPONSE INFORMATION			
Deployment Strategy: Protection/Staging		High Water: Sorbent Booming	Low Water: Sorbent Booming
Boom Required: 3400' VS		Recovery Method: Debris	Tank Truck Access: Yes
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: SEST-6: [REDACTED] (CP 1477-3.8)		
Approved By Signature:				
Assignments				
1.) From the shoreline at [REDACTED] deploy 3400' of viscous sweep to the south. 2.) Establish site as a staging area. 3.) Maintain site integrity over the course of the response. 4.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
SEST-6: [REDACTED]	ATV	ATV	2 each	
SEST-6: [REDACTED]	Boom Accessories	Anchor Stakes	34 each	
SEST-6: [REDACTED]	Manpower: Responder	Responder	5 each	
SEST-6: [REDACTED]	Security Guard	Security Guard	2 each	
SEST-6: [REDACTED]	Viscous Sweep	Viscous Sweep	3400 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline. Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
SEST-6 is located at the [REDACTED] ~3.8 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:37	Page 1 of 1	© 1997-2012 dbSoft, Inc.

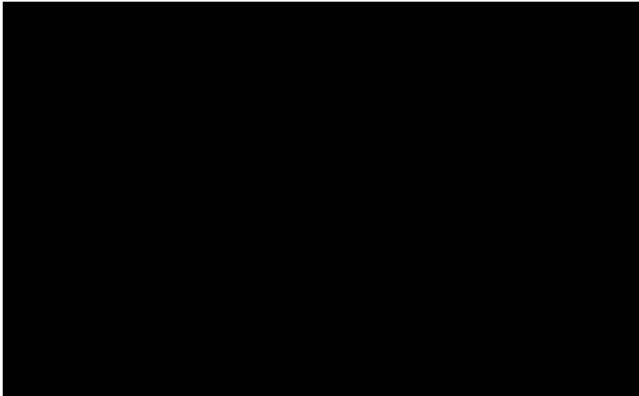
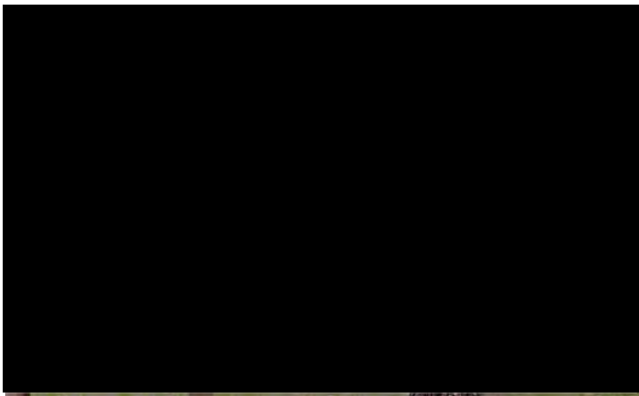
		Site Number: SEST-7 (CP 1477- 4.0) Site Name: [REDACTED]	
		Division: Southeast Straits Division	
SITE INFORMATION			
Type of Site: Protection/Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Beach area has soft sand. Roads are paved but not in good condition. [REDACTED] Village of Mackinaw City (231) 436-5351 102 South Huron Avenue Mackinaw City, MI 49701			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: Beach area along campground.		Staging Area Size: 100' X 150'	
Nearest Pipeline Crossing & Distance: Line 5 (~4.0 Miles)		Nearest Boat Ramp & Distance: Mackinaw City Pier Boat Ramp ~ 1.25 Mile	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: Camping, Electricity, Lighting, Restrooms, Showers
ACCESS INFORMATION			
Type of Access: Boat, Road, ATV	Road Type: Light Duty	Road Surface: Gravel/Sand/Paved	Access Location: West Shoreline Lake Huron
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

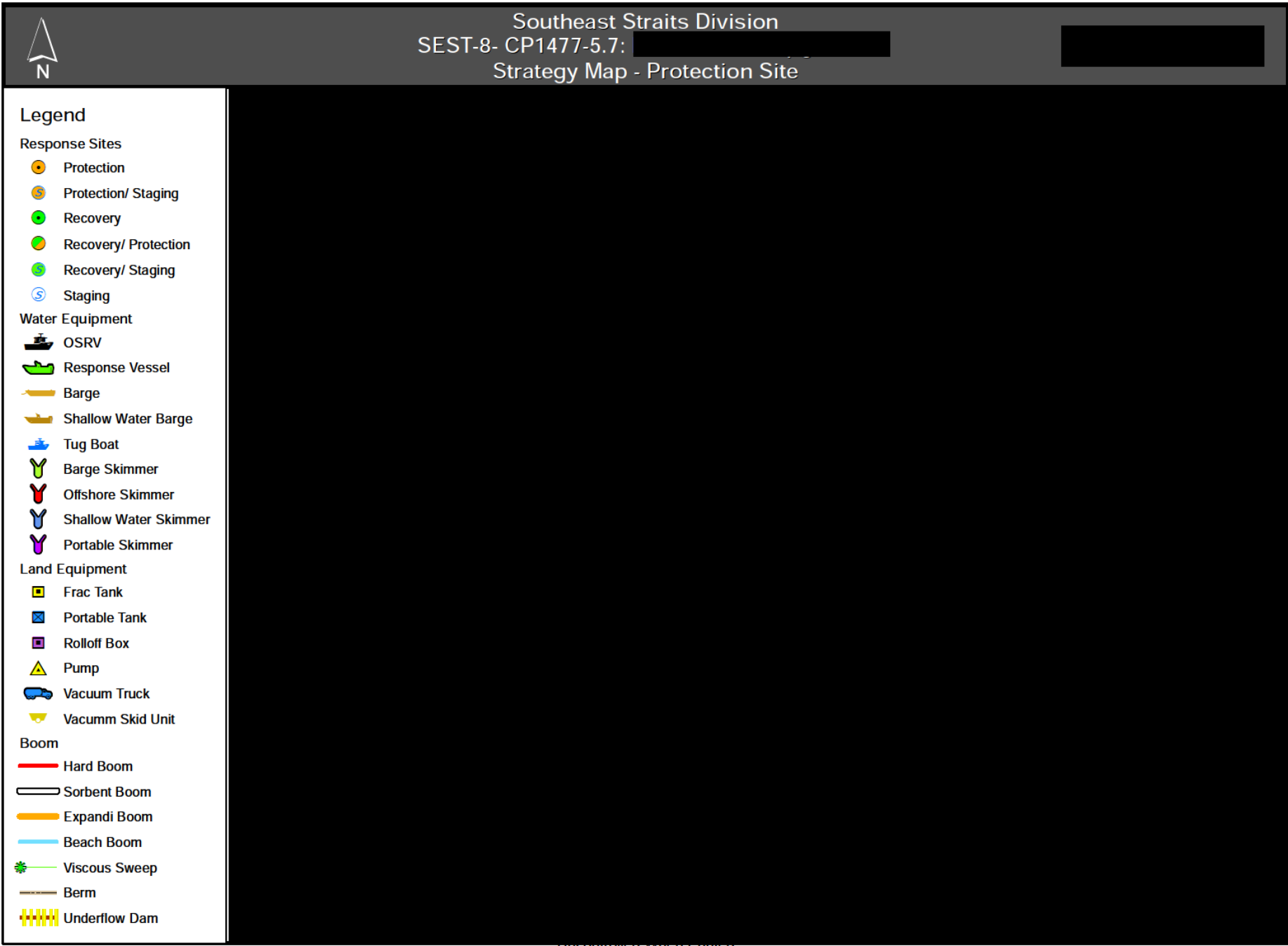
		<u>Site Number:</u> SEST-7 (CP 1477- 4.0) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southeast Straits Division
SITE PHOTOGRAPHS		
		
1. Staging Area (Looking North)		2. [REDACTED] Sign (Looking Northwest)
		
RESPONSE INFORMATION		
Deployment Strategy: Protection/Staging	High Water: Sorbent Booming	Low Water: Sorbent Booming
Boom Required: 150' SB, 150' VS	Recovery Method: Debris	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: SEST-7: [REDACTED] (CP 1477-		
Approved By Signature:				
Assignments				
1.) Deploy 150' of viscous sweep along the shoreline to the north of [REDACTED] 2.) On the inland side of the viscous sweep, deploy 150' of sorbent boom. 3.) Stage roll off box to store collected oiled debris. 4.) Establish site as a staging area. 5.) Maintain site integrity over the course of the response. 6.) Manage check-in and check-out of resources.				
Special Instructions				
Prevent spilled material from impacting the shoreline. Establish site as a staging area. Manage a coordinated response effort.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
SEST-7: [REDACTED]	Manpower: Responder	Responder	2 each	
SEST-7: [REDACTED]	Security Guard	Security Guard	2 each	
SEST-7: [REDACTED]	Sorbent: Boom	Sorbent Boom	150 feet	5 inch(es)
SEST-7: [REDACTED]	Storage: Solid	Roll Off Box		
SEST-7: [REDACTED]	Viscous Sweep	Viscous Sweep	150 feet	
Location of Work				
SEST-7 is located at the [REDACTED] ~4.0 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:37	Page 1 of 1	© 1997-2012 dbSoft, Inc.

		Site Number: SEST-8 (CP 1477- 5.7)	
		Site Name: [REDACTED]	
Division: Southeast Straits Division			
SITE INFORMATION			
Type of Site: Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Speed [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Nearby Sensitivities: [REDACTED] and recreational beach.		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~5.7 Miles)		Nearest Boat Ramp & Distance: Mackinaw City Pier Boat Ramp ~3 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Pier		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand	Bank Slope: Slight	Bank Height: ~1'	Existing Facilities: Camping, Electricity, Lighting, Restrooms, Showers, Store
ACCESS INFORMATION			
Type of Access: Boat, Road, ATV	Road Type: Private Light Duty	Road Surface: Paved	Access Location: West Shoreline Lake Huron
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

		<u>Site Number:</u> SEST-8 (CP 1477- 5.7) <u>Site Name:</u> [REDACTED] <u>Division:</u> Southeast Straits Division	
SITE PHOTOGRAPHS			
			
1. Beach Area (Looking North)		2. Pier (Looking West)	
			
3. [REDACTED] Sign (Looking Northwest)			
RESPONSE INFORMATION			
Deployment Strategy: Protection	High Water: Sorbent Booming	Low Water: Sorbent Booming	
Boom Required: 400' SB, 400' VS	Recovery Method: Debris	Tank Truck Access: Yes	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: SEST-8: [REDACTED] (CP 1477-5.7)		
Approved By Signature:					
Assignments					
1.) Deploy 400' of viscous sweep along the shoreline to the east of [REDACTED] 2.) On the inland side of the viscous sweep, deploy 400' of sorbent boom. 3.) Stage roll off box to store collected oiled debris.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
SEST-8: [REDACTED] (CP 1477-5)	Boom Accessories	Anchor Stakes	8 each		
SEST-8: [REDACTED] (CP 1477-5)	Manpower: Responder	Responder	3 each		
SEST-8: [REDACTED] (CP 1477-5)	Sorbent: Boom	Sorbent Boom	400 feet	5 inch(es)	
SEST-8: [REDACTED] (CP 1477-5)	Storage: Solid	Roll Off Box	1 each	30 cubic yard(s)	
SEST-8: [REDACTED] (CP 1477-5)	Viscous Sweep	Viscous Sweep	400 feet		
Tactical Objective					
Prevent spilled material from impacting the shoreline. Manage a coordinated response effort.					
Location of Work					
SEST-8 is located at the [REDACTED] 5.7 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
ICS 204 - Assignment List		Printed: 11/3/2012 01:38		Page 1 of 1	
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*Straits of Mackinac
Tactical Response Plan*

Mackinac and Boise Blanc Islands Division

Site ID	Name	Drainage System	Type of Site	Distance From Source
MBBI-1	[REDACTED]	Lake Huron	Staging	6.8 miles
MBBI-2	[REDACTED]	Lake Huron	Protection	6.6 miles
MBBI-3	[REDACTED]	Lake Huron	Recovery/ Protection	7.3 miles
MBBI-4	[REDACTED]	Lake Huron	Recovery/ Protection	7.0 miles
MBBI-5	[REDACTED]	Lake Huron	Recovery/ Protection	7.2 miles
MBBI-6	[REDACTED]	Lake Huron	Recovery/ Protection	8.1 miles
MBBI-7	[REDACTED]	Lake Huron	Recovery	7.7 miles
MBBI-8	[REDACTED]	Lake Huron	Recovery/ Protection	8.2 miles



*Straits of Mackinac
Tactical Response Plan*

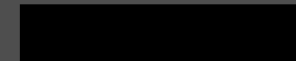
Mackinac and Boise Blanc Islands Division (Cont.)

Site ID	Name	Drainage System	Type of Site	Distance From Source
MBBI-9	[REDACTED]	Lake Huron	Recovery/ Protection	8.6 miles
MBBI-10	[REDACTED]	Sand Bay/ Lake Huron	Recovery	11.9 miles
MBBI-11	[REDACTED]	Lake Huron	Staging	16.5 miles
MBBI-12	[REDACTED]	Lake Huron	Protection	17.7 miles

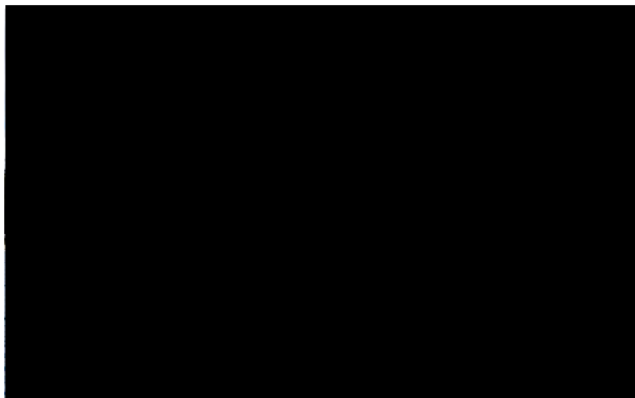
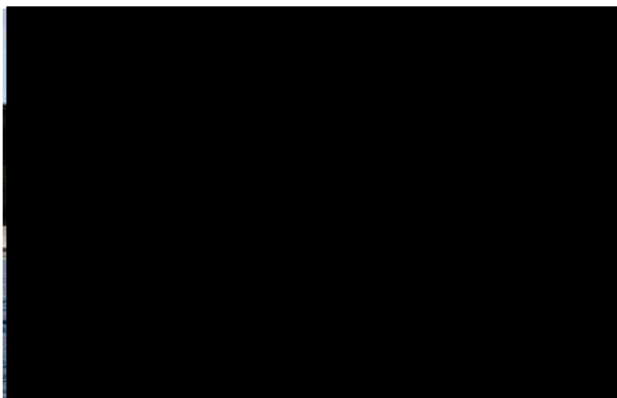
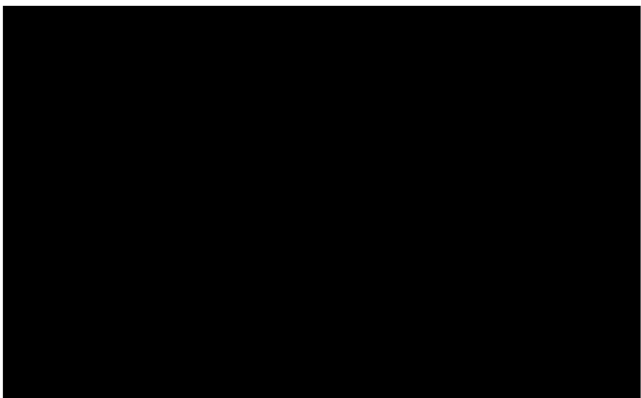
- Grey highlight = potential staging area

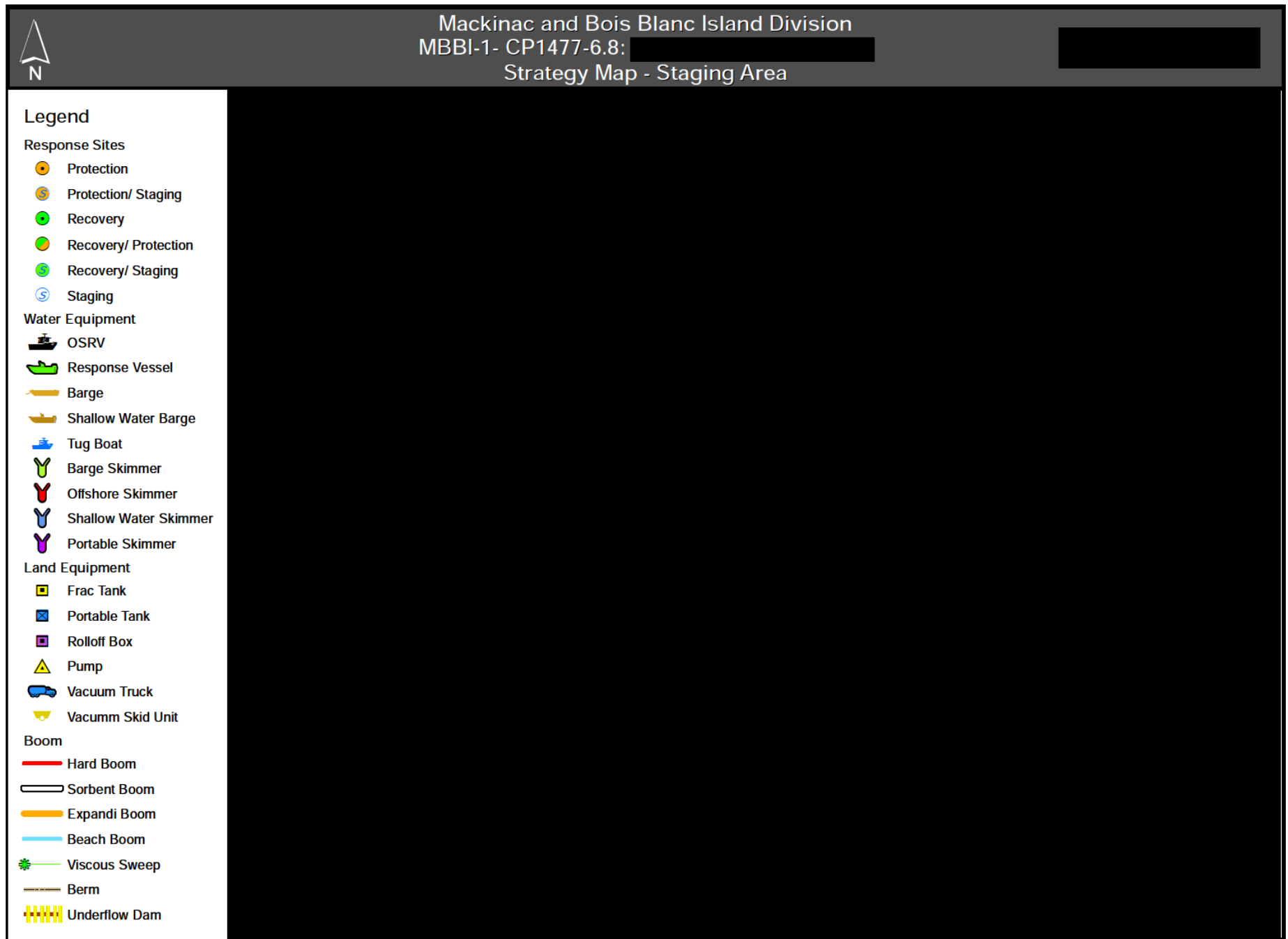


Straits of Mackinac Response Plan
Mackinac and Bois Blanc Island Division



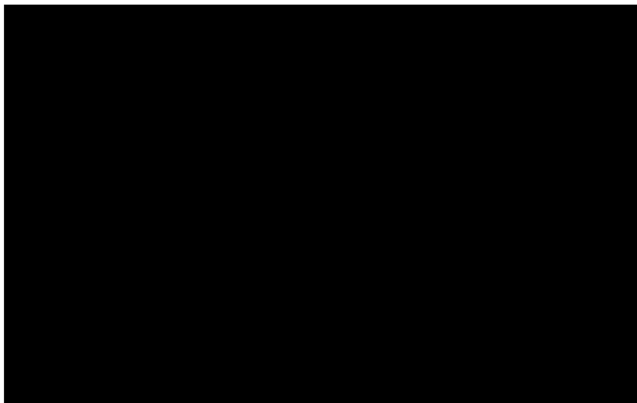
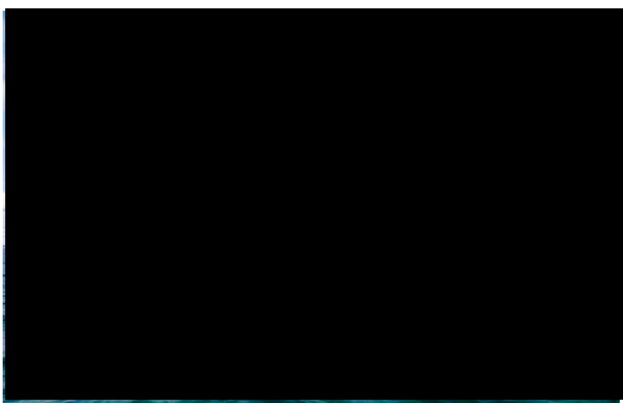
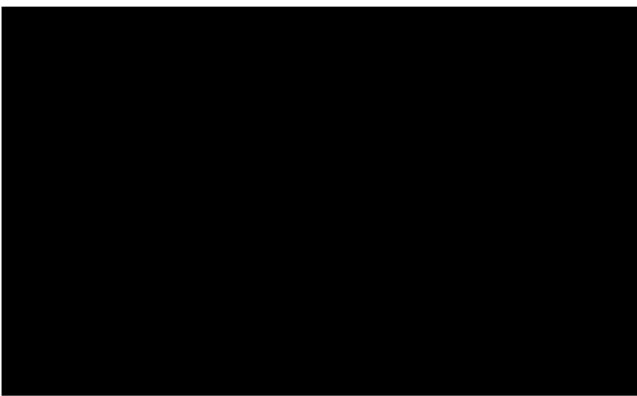
		Site Number: MBBI-1 (CP 1477- 6.8)	
		Site Name: [REDACTED]	
Division: Mackinac and Bois Blanc Islands Division			
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Boat ramp and barge dock at this site for offloading supplies/heavy equipment. No motorized vehicles are allowed on the island. Landing craft ramp at site.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Commercial
Nearby Sensitivities: Mackinac Island, Mackinac Island State Park		Staging Area Size: 150' X 275'	
Nearest Pipeline Crossing & Distance: Line 5 (~6.8 Miles)		Nearest Boat Ramp & Distance: City of St. Ignace Boat Ramp ~4 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Bulkhead	Bank Slope: Steep	Bank Height: ~8'	Existing Facilities: Boat Ramp, Vessel tie-offs
ACCESS INFORMATION			
Type of Access: Boat (vehicles not allowed)	Road Type: Light Duty	Road Surface: Gravel	Access Location: West Shoreline Mackinac Island
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

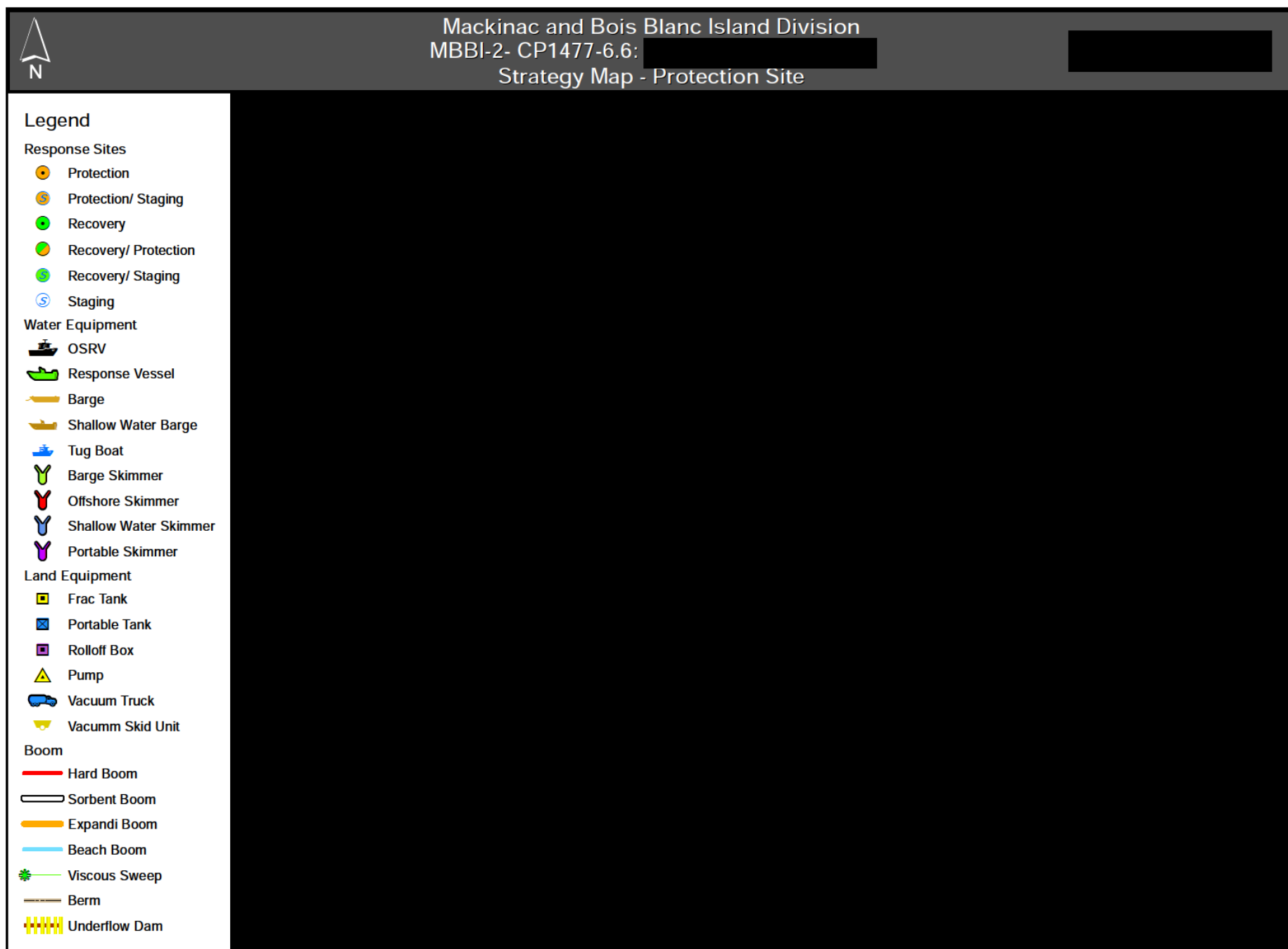
		Site Number: MBB1-1 (CP 1477- 6.8) Site Name: [REDACTED] Division: Mackinac and Bois Blanc Islands Division
SITE PHOTOGRAPHS		
		
1. [REDACTED] (Looking East)		2. [REDACTED] (Looking East)
		
3. Landing Craft Area (Looking Northeast)		4. [REDACTED]
RESPONSE INFORMATION		
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: No (no motorized vehicles allowed)
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: MBBI-1: [REDACTED] (CP 1477-		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
MBBI-1: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
MBBI-1 is located north of the intersection of [REDACTED] ~6.8 miles from the pipeline crossing [REDACTED] Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:38	Page 1 of 1	© 1997-2012 dbSoft, Inc.

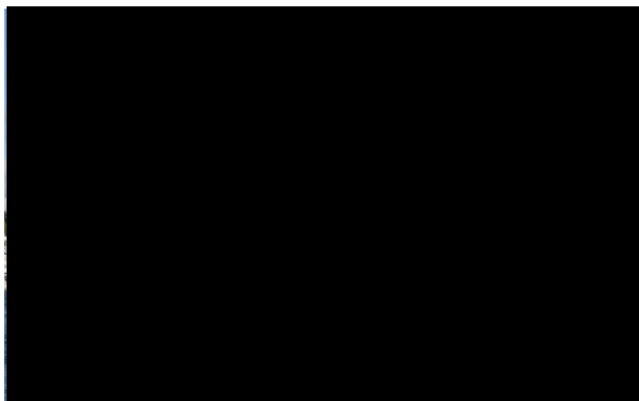
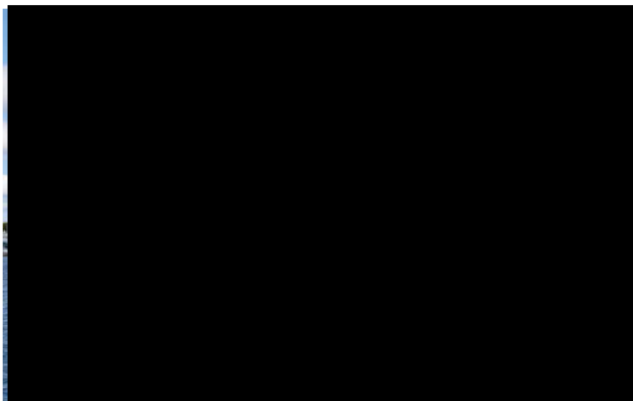
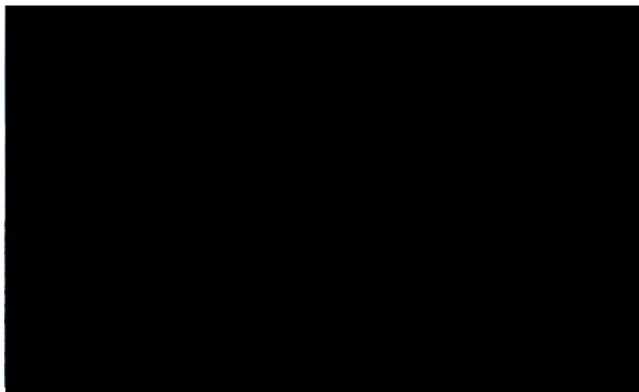
		Site Number: MBB-2 (CP 1477- 6.6)	
		Site Name: [REDACTED]	
Division: Mackinac and Bois Blanc Islands Division			
SITE INFORMATION			
Type of Site: Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. No motorized vehicles are allowed on the island without appropriate approval.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: Mackinac Island		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~6.6 Miles)		Nearest Boat Ramp & Distance: Dock #3 Park Boat Ramp ~3.75 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Sand	Bank Slope: Medium	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: West Shoreline Mackinac Island
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

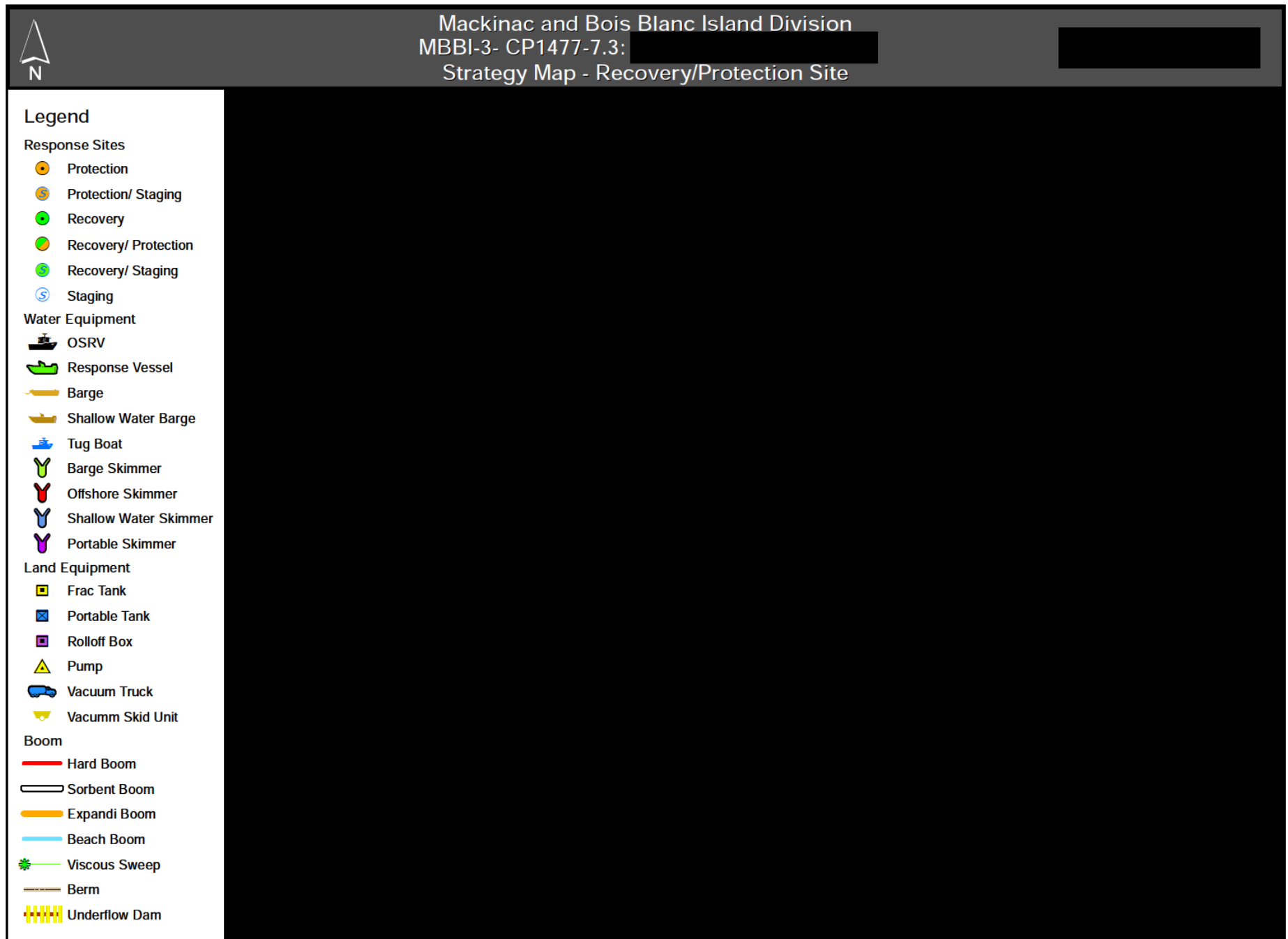
		Site Number: MBBI-2 (CP 1477- 6.6) Site Name: [REDACTED] Division: Mackinac and Bois Blanc Islands Division
SITE PHOTOGRAPHS		
		
1. Beach Area (Looking Northeast)		2. Shoreline (Looking North)
		
3. Grand Hotel Beach (Looking North)		4. Rock Barrier (Looking East)
RESPONSE INFORMATION		
Deployment Strategy: Protection	High Water: Booming	Low Water: Booming
Boom Required: 4000' VS, 400' BB	Recovery Method: Debris	Tank Truck Access: No (no motorized vehicles allowed)
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: MBBI-2: [REDACTED] (CP 1477-I)		
Approved By Signature:					
Assignments					
1.) Deploy 4000' of viscous sweep along the southern tip of Mackinac Island as shown on the associated strategy map. 2.) Deploy 400' of beach boom on the eastern tip of the viscous sweep as stated in #1 outward to the break water.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
MBBI-2: [REDACTED]	Boom	Beach Boom	400 feet	22 inch(es)	
MBBI-2: [REDACTED]	Boom Accessories	Boom Anchors	6 each	40 pound(s)	
MBBI-2: [REDACTED]	Boom Accessories	Anchor Stakes	50 each		
MBBI-2: [REDACTED]	Manpower: Operator	Boat Operator	1 each		
MBBI-2: [REDACTED]	Manpower: Responder	Responder	12 each		
MBBI-2: [REDACTED]	Vessel	Jon Boat	1 each	14 feet	
MBBI-2: [REDACTED]	Viscous Sweep	Viscous Sweep	4000 feet		
Tactical Objective					
Prevent spilled material from impacting the shoreline of [REDACTED] Manage a coordinated response effort.					
Location of Work					
MBBI-2 is located at the intersection of [REDACTED] ~6.6 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
ICS 204 - Assignment List		Printed: 11/3/2012 01:38		Page 1 of 1	
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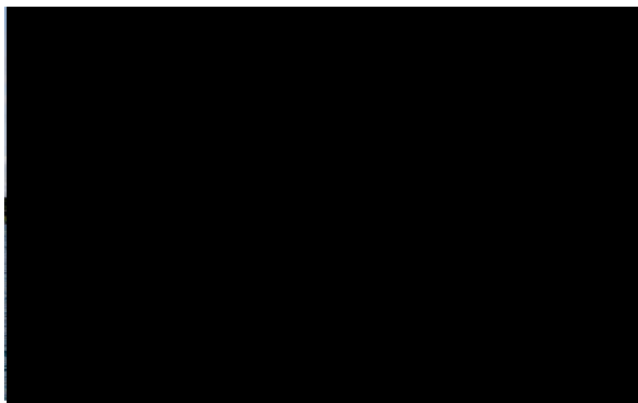
		Site Number: MBBI-3 (CP 1477- 7.3)	
		Site Name: [REDACTED]	
Division: Mackinac and Bois Blanc Islands Division			
SITE INFORMATION			
Type of Site: Recovery/Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. No motorized vehicles are allowed on the island without appropriate approval.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: [REDACTED] Mackinac Island City Ferry		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~7.3 Miles)		Nearest Boat Ramp & Distance: Dock #3 Park Boat Ramp ~4.5 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Bulkhead	Bank Slope: Steep	Bank Height: ~6'	Existing Facilities: Vessel tie offs, Restrooms, Lighting, Water, Electricity
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: South Shoreline [REDACTED]
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

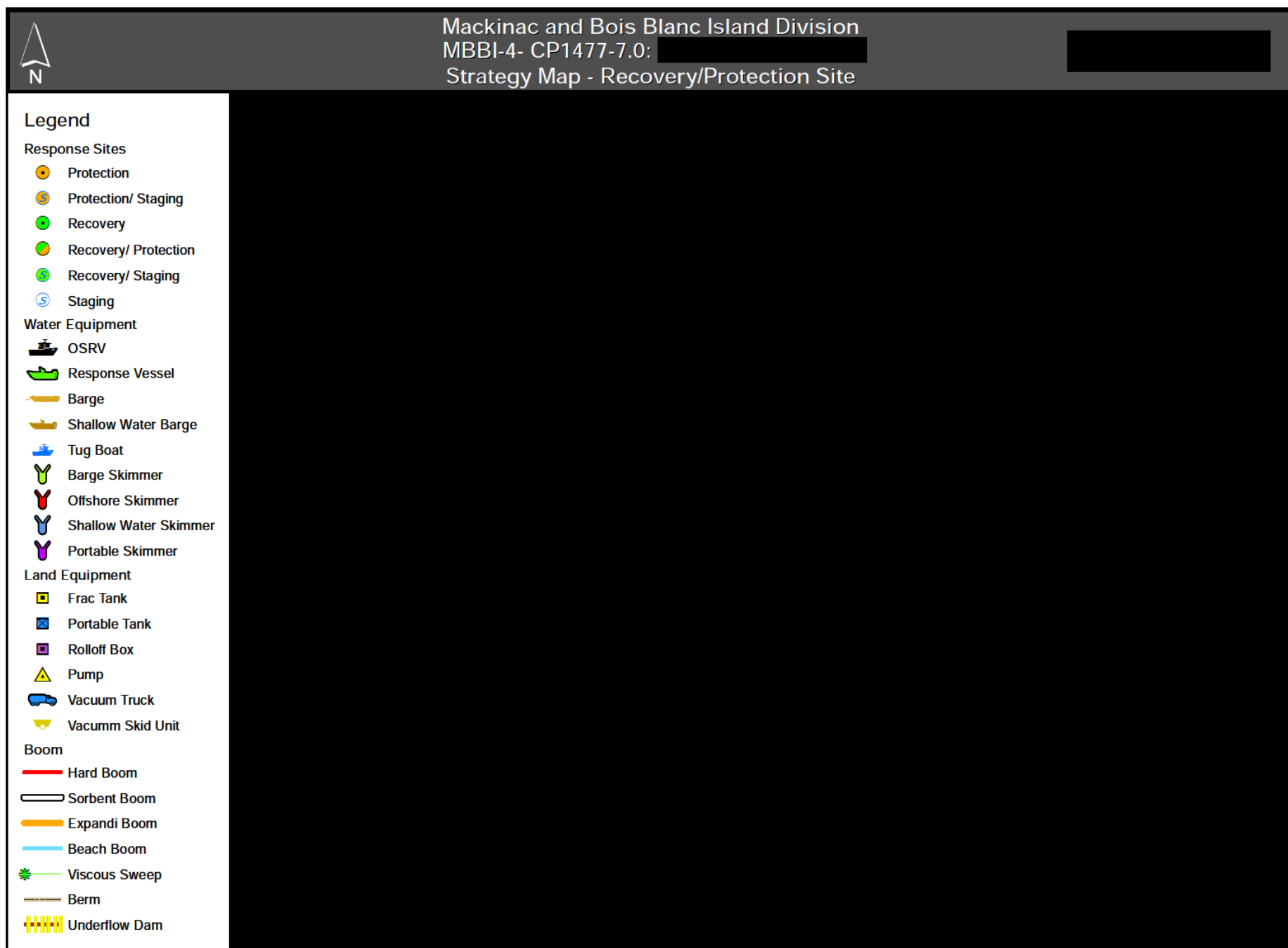
		Site Number: MBBI-3 (CP 1477- 7.3) Site Name: [REDACTED] Division: Mackinac and Bois Blanc Islands Division
SITE PHOTOGRAPHS		
		
1. [REDACTED] (Looking North)		2. [REDACTED] (Looking North)
		
3. [REDACTED] Collection Area (Looking Northwest)		4. [REDACTED] Collection Area (Looking East)
RESPONSE INFORMATION		
Deployment Strategy: Recovery/Protection	High Water: Booming	Low Water: Booming
Boom Required: 1300' VS, 3800' HB	Recovery Method: Skimmer, Debris	Tank Truck Access: No (no motorized vehicles allowed)
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: MBBI-3: [REDACTED] (CP 1477-		
Approved By Signature:				
Assignments				
1.) Deploy 1300' of viscous sweep along the southern edge of the breakwater off the southern point of [REDACTED] as shown on the associated strategy map. 2.) Deploy 800' of hard boom on the eastern tip of the viscous sweep as stated in #1 outward to southward to lighthouse. 3.) Deploy a shallow water skimmer and response vessel to recover product to the extent possible. 4.) Deploy 3000' across the [REDACTED] from [REDACTED] to the boat dock just south of the [REDACTED]				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
MBBI-3: [REDACTED]	Boom	Hard Boom	3800 feet	18 inch(es)
MBBI-3: [REDACTED]	Boom Accessories	Anchor Stakes	20 each	
MBBI-3: [REDACTED]	Boom Accessories	Boom Anchors	80 each	40 pound(s)
MBBI-3: [REDACTED]	Manpower: Operator	Boat Operator	5 each	
MBBI-3: [REDACTED]	Manpower: Responder	Responder	18 each	
MBBI-3: [REDACTED]	Skimmer	Shallow Water Skimmer	1 each	
MBBI-3: [REDACTED]	Vessel	Response Vessel	1 each	20 feet
MBBI-3: [REDACTED]	Vessel	Jon Boat	4 each	14 feet
MBBI-3: [REDACTED]	Viscous Sweep	Viscous Sweep	1300 feet	
Tactical Objective				
Prevent spilled material from impacting the [REDACTED] Recover product to extent possible. Manage a coordinated response effort.				
Location of Work				
MBBI-3 is located at the [REDACTED] 7.3 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/2/2012 09:08	Page 1 of 1	© 1997-2012 dbSoft, Inc.

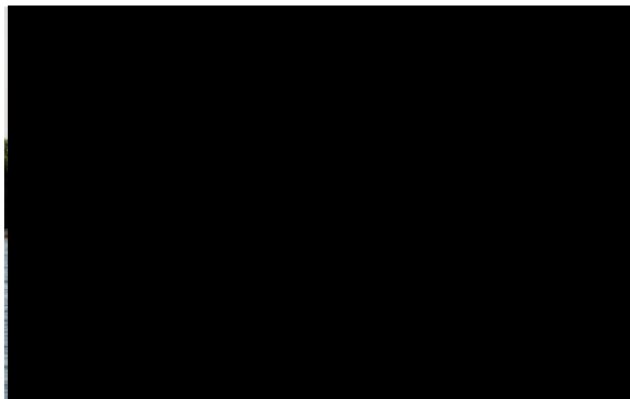
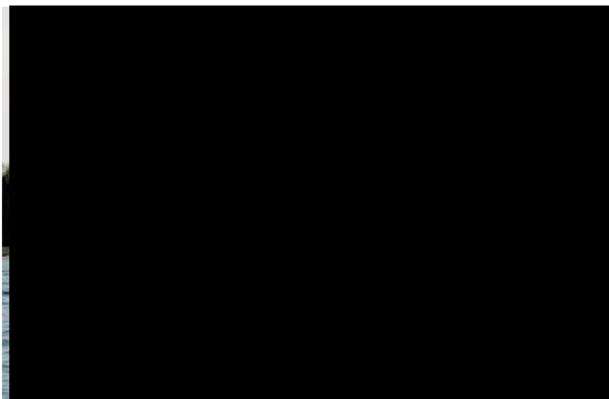
		Site Number: MBBI-4 (CP 1477- 7.0)	
		Site Name: [REDACTED]	
Division: Mackinac and Bois Blanc Islands Division			
SITE INFORMATION			
Type of Site: Recovery/Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Water is very shallow near the shoreline.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: Mackinac Island, Mackinac Island City Ferry		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~7.0 Miles)		Nearest Boat Ramp & Distance: Dock #3 Park Boat Ramp ~4.25 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Bulkhead	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: North Shoreline [REDACTED]
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

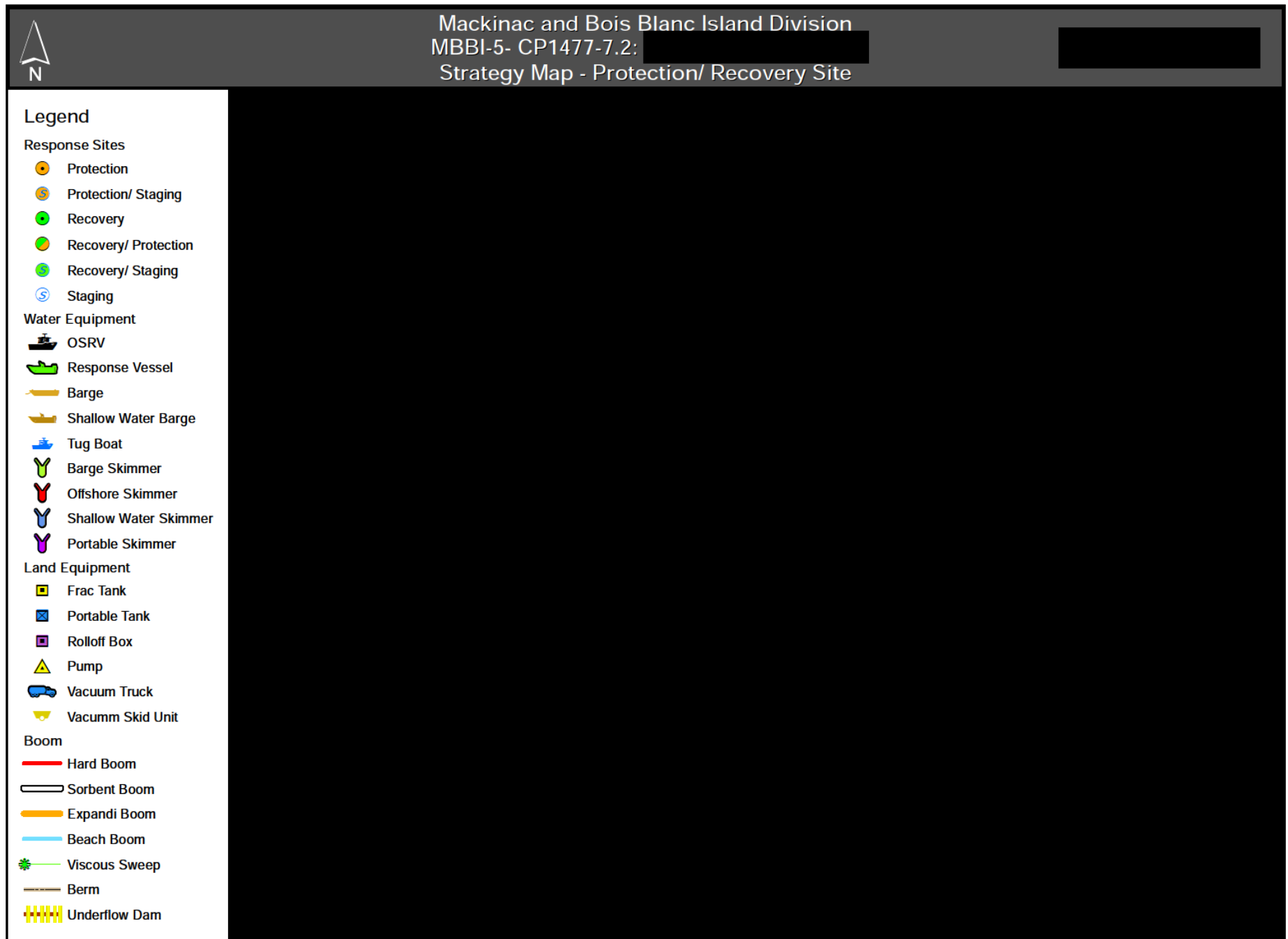
		Site Number: MBB1-4 (CP 1477- 7.0) Site Name: [REDACTED] Division: Mackinac and Bois Blanc Islands Division
SITE PHOTOGRAPHS		
		
1. Lighthouse on the Point (Looking East)		2. Shoreline of the Point (Looking Northeast)
		
3. Lighthouse and Point (Looking East)		4. Shoreline South of Lighthouse (Looking Northeast)
RESPONSE INFORMATION		
Deployment Strategy: Recovery/Protection	High Water: Sorbent Booming	Low Water: Sorbent Booming
Boom Required: 2600' VS	Recovery Method: Skimmer, Debris	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: MBBI-4: [REDACTED] (CP 1477-7.0)		
Approved By Signature:				
Assignments				
1.) Deploy 2600' of viscous sweep along the western edge of the northern most tip of [REDACTED] 2.) Off the northern tip of [REDACTED] deploy 600' of hard boom to the west. 3.) Deploy a shallow water skimmer and response vessel to recover product to the extent possible.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
MBBI-4: [REDACTED]	Boom	Hard Boom	600 feet	18 inch(es)
MBBI-4: [REDACTED]	Boom Accessories	Boom Anchors	14 each	40 pound(s)
MBBI-4: [REDACTED]	Boom Accessories	Anchor Stakes	30 each	
MBBI-4: [REDACTED]	Manpower: Operator	Boat Operator	3 each	
MBBI-4: [REDACTED]	Manpower: Responder	Responder	12 each	
MBBI-4: [REDACTED]	Skimmer	Shallow Water Skimmer	1 each	
MBBI-4: [REDACTED]	Vessel	Response Vessel	1 each	20 feet
MBBI-4: [REDACTED]	Vessel	Jon Boat	2 each	14 feet
MBBI-4: [REDACTED]	Viscous Sweep	Viscous Sweep	2600 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline on [REDACTED] Recover product to extent possible. Manage a coordinated response effort.				
Location of Work				
MBBI-4 is located at the northern most point of [REDACTED] ~7.0 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/2/2012 09:08	Page 1 of 1	© 1997-2012 dbSoft, Inc.

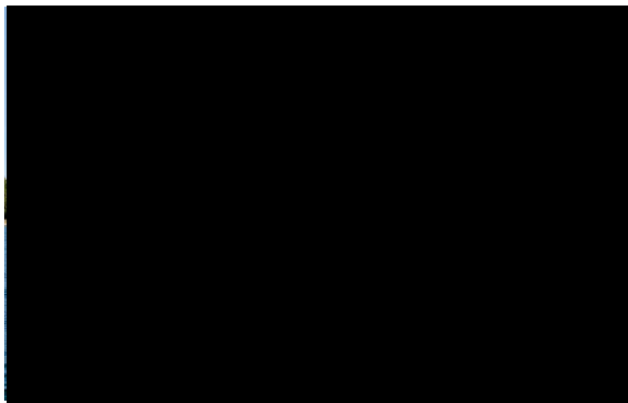
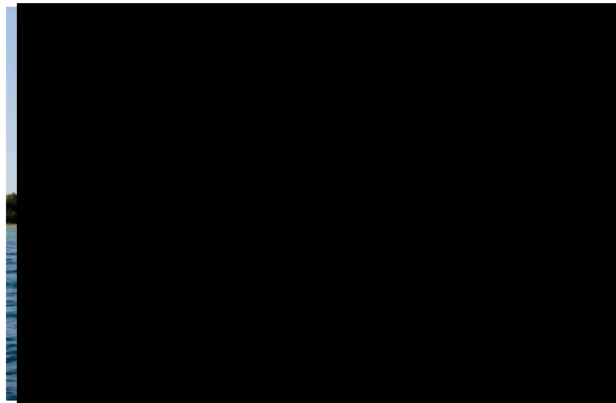
		Site Number: MBBI-5 (CP 1477- 7.2)	
		Site Name: [REDACTED]	
Division: Mackinac and Bois Blanc Islands Division			
SITE INFORMATION			
Type of Site: Recovery/Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Very shallow near the shoreline. Natural collection pocket is suitable for collection.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~7.2 Miles)		Nearest Boat Ramp & Distance: Dock #3 Park Boat Ramp ~4.75 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: West Shoreline Round Island
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

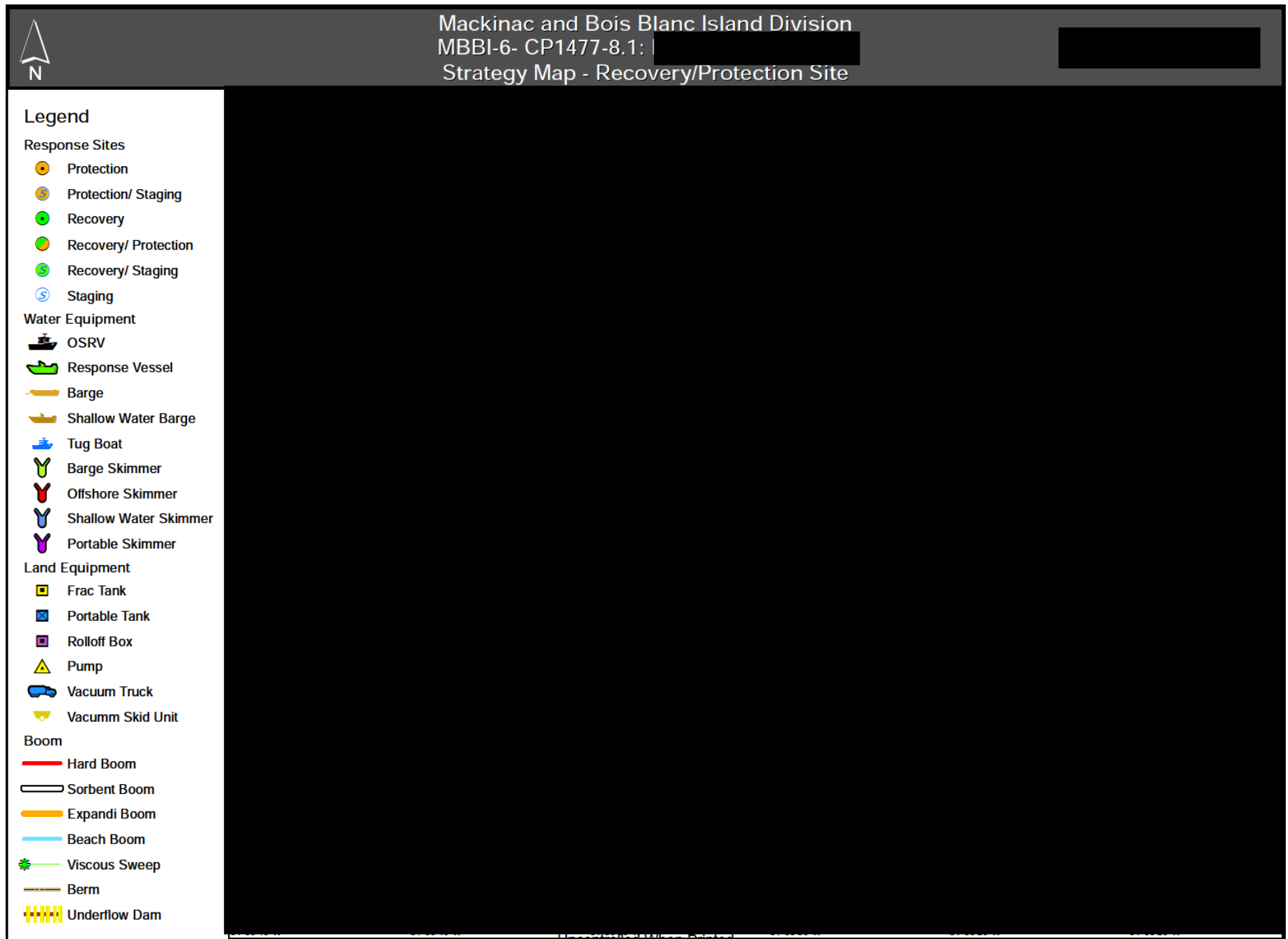
		Site Number: MBBI-5 (CP 1477- 7.2) Site Name: [REDACTED] Division: Mackinac and Bois Blanc Islands Division
SITE PHOTOGRAPHS		
		
1. Shoreline & Recovery Area (Looking Southwest)		2. Shoreline & Recovery Area (Looking Southwest)
		
3.		4.
RESPONSE INFORMATION		
Deployment Strategy: Recovery/Protection	High Water: Sorbent Booming	Low Water: Sorbent Booming
Boom Required: 3100' VS	Recovery Method: Skimmer, Debris	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: MBBI-5: [REDACTED] (CP 1477-7)		
Approved By Signature:				
Assignments				
1.) Deploy 3100' of viscous sweep from the western tip of [REDACTED] to the north along the shoreline. 2.) Deploy a shallow water skimmer and response vessel to recover product to the extent possible.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
MBBI-5: [REDACTED]	Boom Accessories	Anchor Stakes	31 each	
MBBI-5: [REDACTED]	Manpower: Operator	Boat Operator	3 each	
MBBI-5: [REDACTED]	Manpower: Responder	Responder	12 each	
MBBI-5: [REDACTED]	Skimmer	Shallow Water Skimmer	1 each	
MBBI-5: [REDACTED]	Vessel	Response Vessel	1 each	20 feet
MBBI-5: [REDACTED]	Vessel	Jon Boat	2 each	14 feet
MBBI-5: [REDACTED]	Viscous Sweep	Viscous Sweep	3100 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline on [REDACTED] Recover product to extent possible. Manage a coordinated response effort.				
Location of Work				
MBBI-5 is located at the western tip of [REDACTED] ~7.2 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/2/2012 09:09	Page 1 of 1	© 1997-2012 dbSoft, Inc.

		Site Number: MBBI-6 (CP 1477- 8.1)	
		Site Name: [REDACTED]	
Division: Mackinac and Bois Blanc Islands Division			
SITE INFORMATION			
Type of Site: Recovery/Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Southern point of [REDACTED] Very shallow near the shoreline.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~8.1 Miles)		Nearest Boat Ramp & Distance: Dock #3 Park Boat Ramp ~6 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: South Shoreline [REDACTED]
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

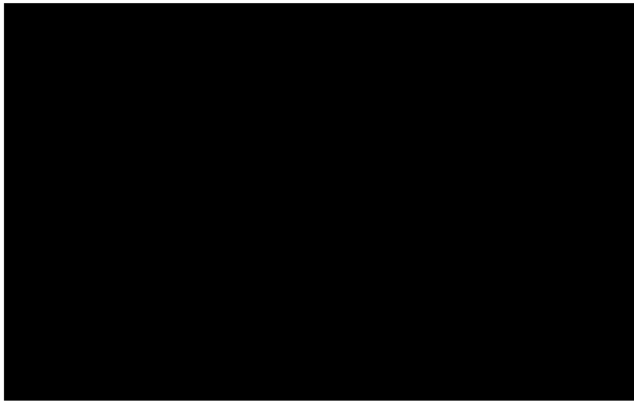
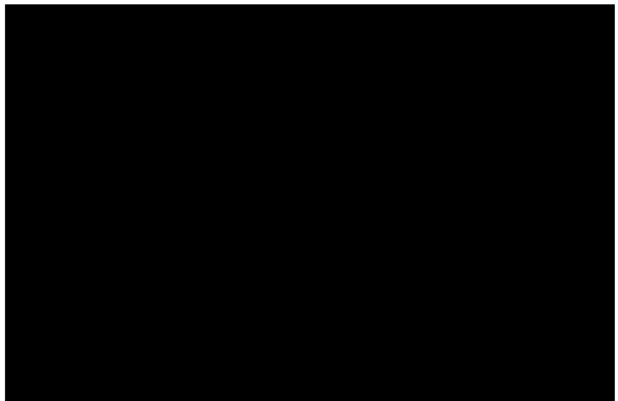
		Site Number: MBBI-6 (CP 1477- 8.1) Site Name: [REDACTED] Division: Mackinac and Bois Blanc Islands Division
SITE PHOTOGRAPHS		
		
1. Shoreline & Recovery Area (Looking Northeast)		2. Shoreline Point (Looking Northeast)
		
3.		4.
RESPONSE INFORMATION		
Deployment Strategy: Recovery/Protection	High Water: Sorbent Booming	Low Water: Sorbent Booming
Boom Required: 1400' VS, 400' HB	Recovery Method: Skimmer, Debris	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		

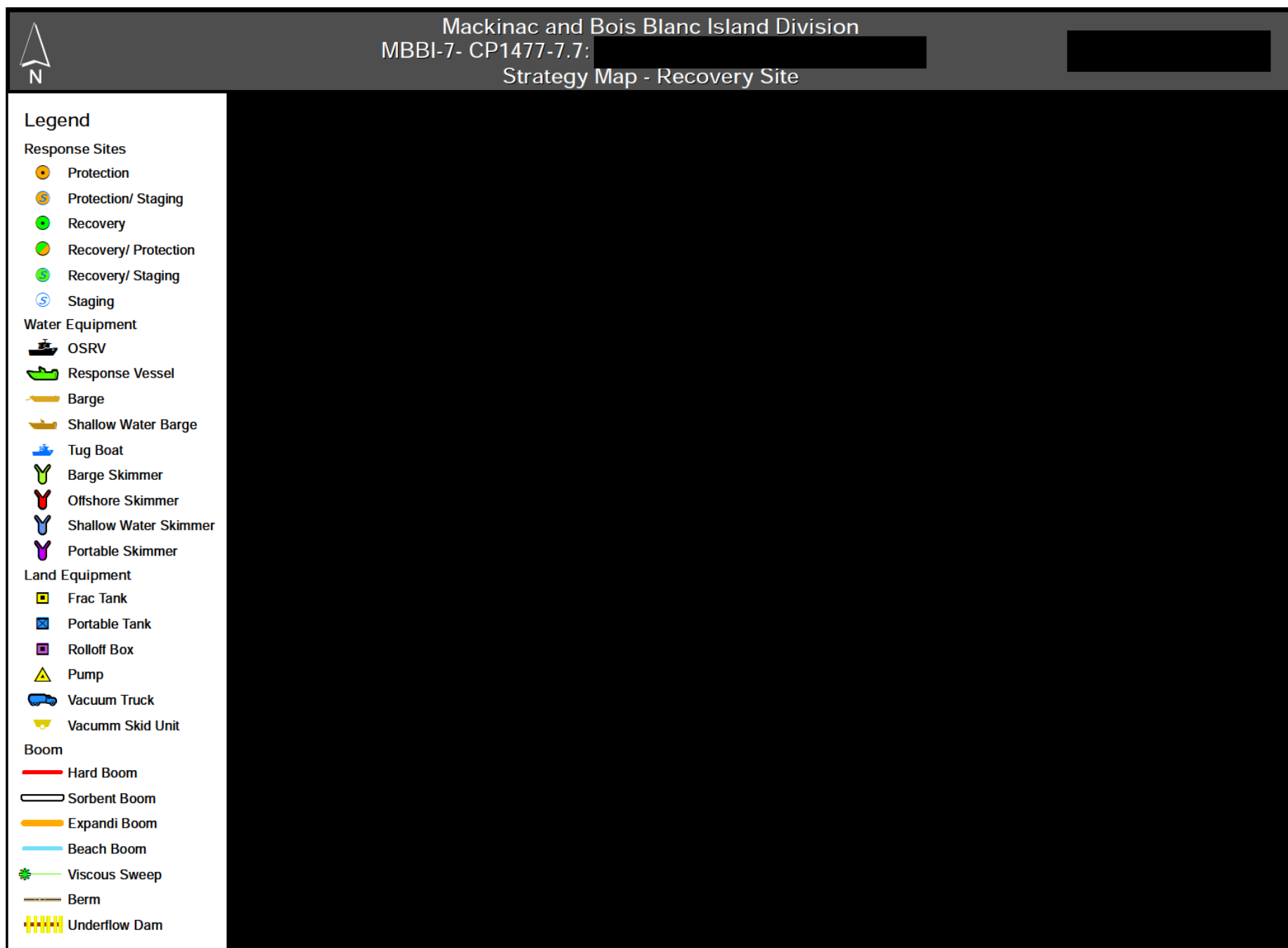


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ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: MBBI-6: [REDACTED] (CP 1477-8.1)		
Approved By Signature:				
Assignments				
1.) Deploy 1400' of viscous sweep from the southern tip of [REDACTED] along the shoreline to the west. 2.) Off of the southern tip of [REDACTED] deploy 400' of hard boom southwest into the water. 3.) Deploy a shallow water skimmer and response vessel to recover product to the extent possible.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
MBBI-6: [REDACTED]	Boom	Hard Boom	400 feet	18 inch(es)
MBBI-6: [REDACTED]	Boom Accessories	Boom Anchors	8 each	40 pound(s)
MBBI-6: [REDACTED]	Boom Accessories	Anchor Stakes	16 each	
MBBI-6: [REDACTED]	Manpower: Operator	Boat Operator	3 each	
MBBI-6: [REDACTED]	Manpower: Responder	Responder	10 each	
MBBI-6: [REDACTED]	Skimmer	Shallow Water Skimmer	1 each	
MBBI-6: [REDACTED]	Vessel	Response Vessel	1 each	20 feet
MBBI-6: [REDACTED]	Vessel	Jon Boat	2 each	14 feet
MBBI-6: [REDACTED]	Viscous Sweep	Viscous Sweep	1400 feet	
Location of Work				
MBBI-6 is located at the southern tip of [REDACTED] ~8.1 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 12/1/2014 14:46	Page 1 of 2	© 1997-2014 dbSoft, Inc.

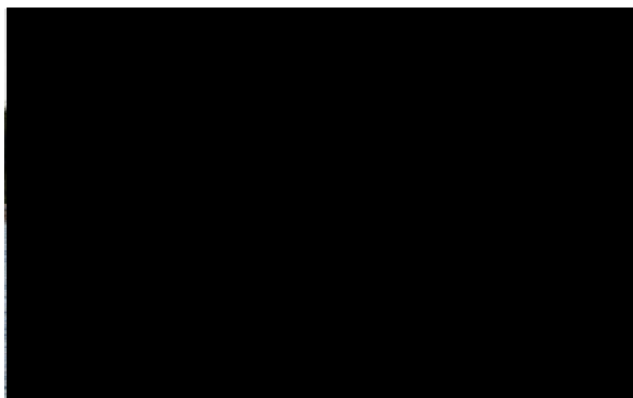
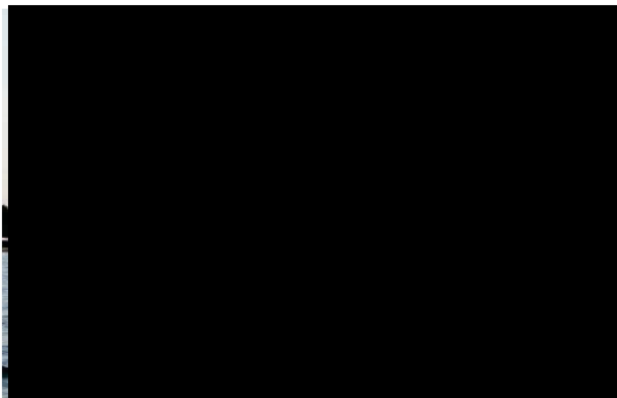
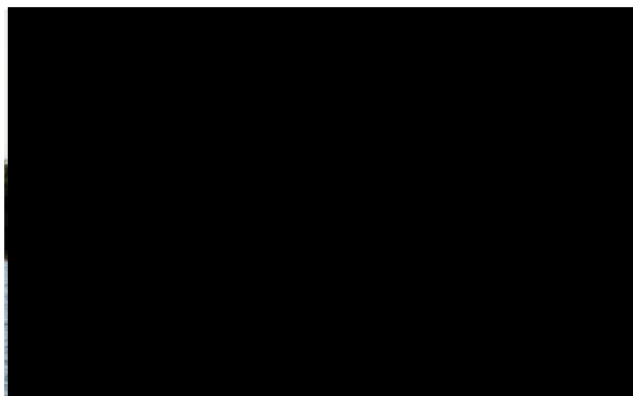
		Site Number: MBBI-7 (CP 1477- 7.7)	
		Site Name: [REDACTED]	
Division: Mackinac and Bois Blanc Islands Division			
SITE INFORMATION			
Type of Site: Recovery/Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Water between [REDACTED] is very shallow. Use caution while boating.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~7.7 Miles)		Nearest Boat Ramp & Distance: Dock #3 Park Boat Ramp ~6 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: N/A	Bank Slope: N/A	Bank Height: N/A	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: Lake Huron
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

		Site Number: MBBI-7 (CP 1477- 7.7) Site Name: [REDACTED] Division: Mackinac and Bois Blanc Islands Division
SITE PHOTOGRAPHS		
		
1. Recovery Area (Looking East)		2. [REDACTED] (Looking Northeast)
		
3. [REDACTED] (Looking East)		4. [REDACTED]
RESPONSE INFORMATION		
Deployment Strategy: Recovery	High Water: Booming	Low Water: Booming
Boom Required: 800' HB	Recovery Method: Skimmer	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: MBBI-7: [REDACTED] (CP 1477)		
Approved By Signature:					
Assignments					
1.) South of Round Island, to the west of [REDACTED], deploy an OSRV and 2 response vessels to form a V-boom configuration to corral and recover spilled product. 2.) South of Round Island, to the west of [REDACTED] deploy another OSRV and 2 response vessels to form a V-boom configuration to corral and recover spilled product.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
MBBI-7: [REDACTED]	Boom	Hard Boom	400 feet	18 inch(es)	
MBBI-7: [REDACTED]	Manpower: Operator	Boat Operator	6 each		
MBBI-7: [REDACTED]	Manpower: Responder	Responder	12 each		
MBBI-7: [REDACTED]	OSRV	OSRV	2 each		
MBBI-7: [REDACTED]	Vessel	Response Boat	4 each	20 feet	
Tactical Objective					
Corral and recover product to extent possible. Manage a coordinated response effort.					
Location of Work					
MBBI-7 is located off of the southern end of [REDACTED] ~7.7 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
ICS 204 - Assignment List		Printed: 11/3/2012 01:39		Page 1 of 1	
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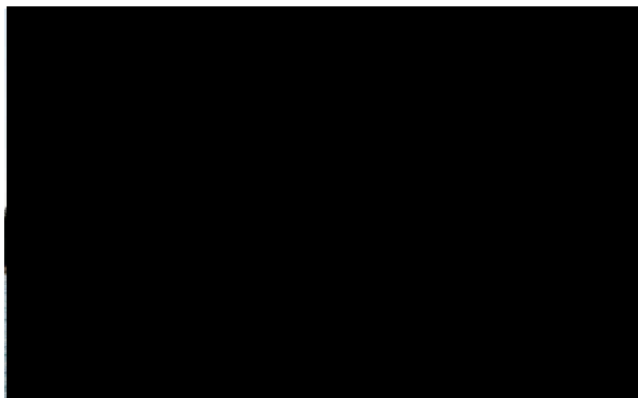
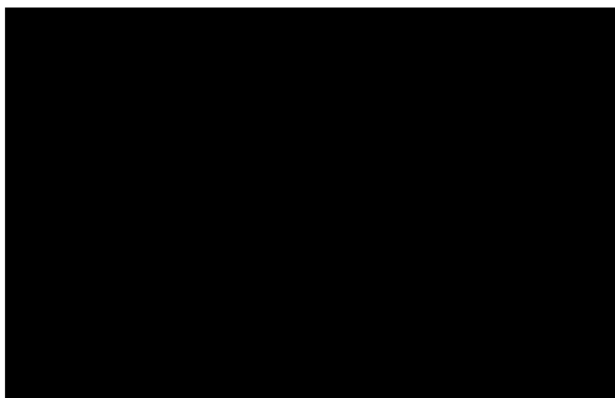
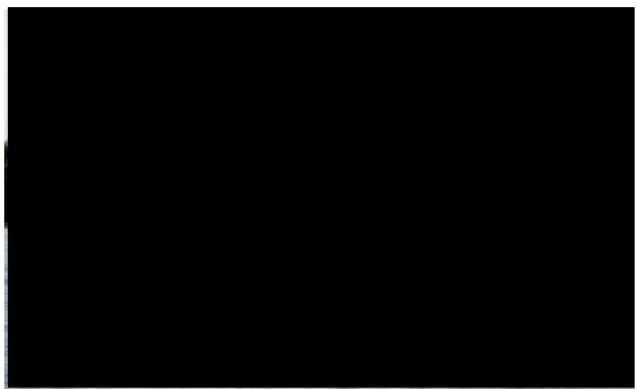
		Site Number: MBBI-8 (CP 1477- 8.2)	
		Site Name: [REDACTED]	
Division: Mackinac and Bois Blanc Islands Division			
SITE INFORMATION			
Type of Site: Recovery/Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Very shallow along the shoreline. Shoreline is sandy and rocky.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~8.2 Miles)		Nearest Boat Ramp & Distance: Dock #3 Park Boat Ramp ~6.25 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Sand/ Grass	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: Northwest Shoreline [REDACTED]
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

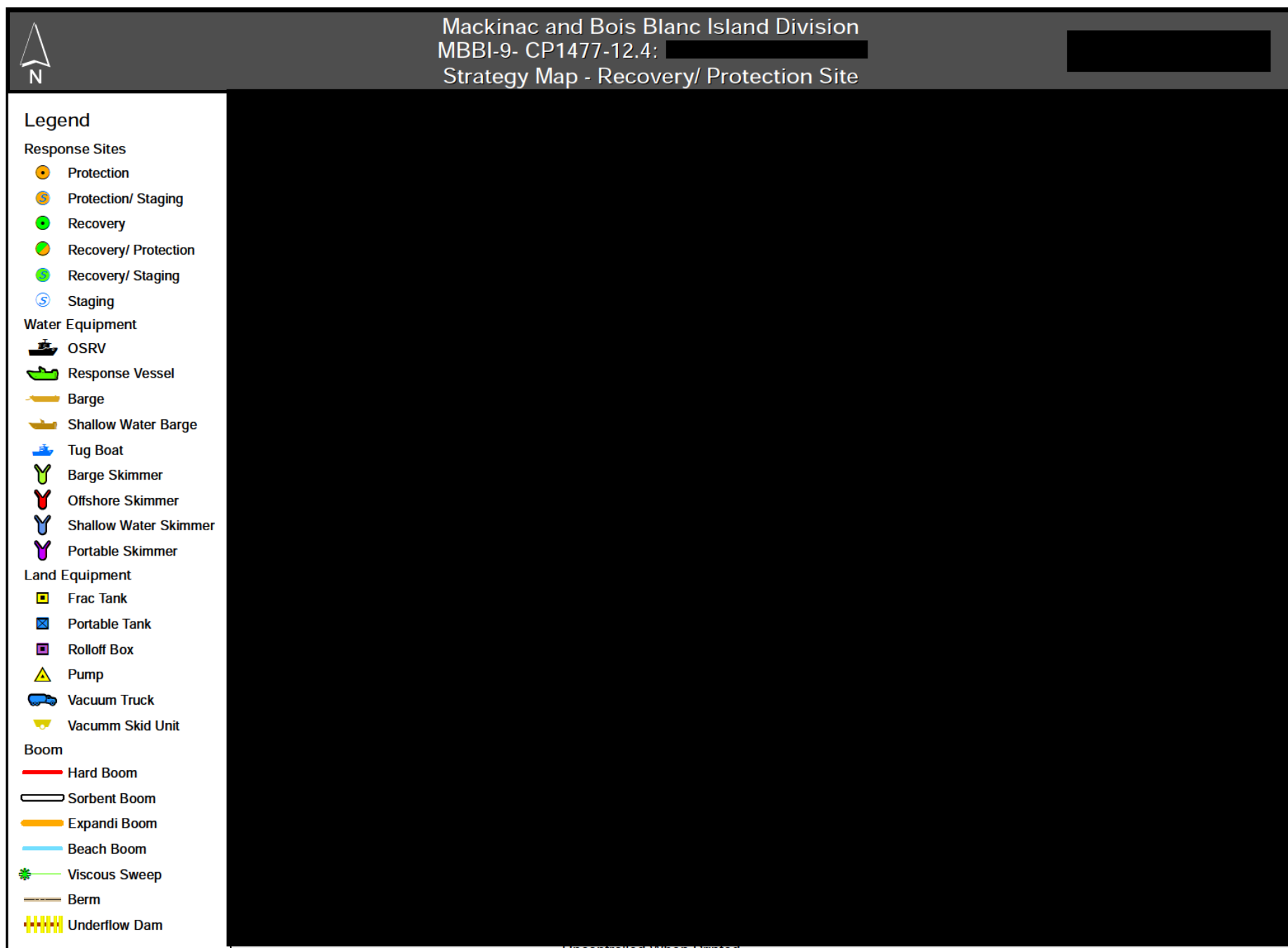
		Site Number: MBBI-8 (CP 1477- 8.2) Site Name: [REDACTED] Division: Mackinac and Bois Blanc Islands Division
SITE PHOTOGRAPHS		
		
1. Shoreline & Recovery Area (Looking Southeast)		2. Shoreline (Looking East)
		
3. Shoreline (Looking East)		4.
RESPONSE INFORMATION		
Deployment Strategy: Recovery/Protection	High Water: Booming	Low Water: Booming
Boom Required: 3200' VS, 800' HB	Recovery Method: Skimmer, Debris	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: MBBI-8: [REDACTED] (CP 1477-8.2)		
Approved By Signature:					
Assignments					
1.) From Limekiln Point, deploy 3200' of viscous sweep to the south along the shoreline. 2.) Deploy (2) 400' sections of hard boom outward from [REDACTED] at an angle dependent on current speed. 3.) Deploy a shallow water skimmer and response vessel to recover product to the extent possible.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
MBBI-8: [REDACTED] (CP 147	Boom	Hard Boom	800 feet	18 inch(es)	
MBBI-8: [REDACTED] (CP 147	Boom Accessories	Boom Anchors	16 each	40 pound(s)	
MBBI-8: [REDACTED] (CP 147	Boom Accessories	Anchor Stakes	35 each		
MBBI-8: [REDACTED] (CP 147	Manpower: Operator	Boat Operator	3 each		
MBBI-8: [REDACTED] (CP 147	Manpower: Responder	Responder	14 each		
MBBI-8: [REDACTED] (CP 147	Skimmer	Shallow Water Skimmer	1 each		
MBBI-8: [REDACTED] (CP 147	Vessel	Response Vessel	1 each	20 feet	
MBBI-8: [REDACTED] (CP 147	Vessel	Jon Boat	2 each	14 feet	
MBBI-8: [REDACTED] (CP 147	Viscous Sweep	Viscous Sweep	3200 feet		
Tactical Objective					
Prevent spilled material from impacting the shoreline at [REDACTED] Recover product to extent possible. Manage a coordinated response effort.					
Location of Work					
MBBI-8 is located at [REDACTED] ~8.2 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
ICS 204 - Assignment List		Printed: 11/2/2012 09:12		Page 1 of 1	
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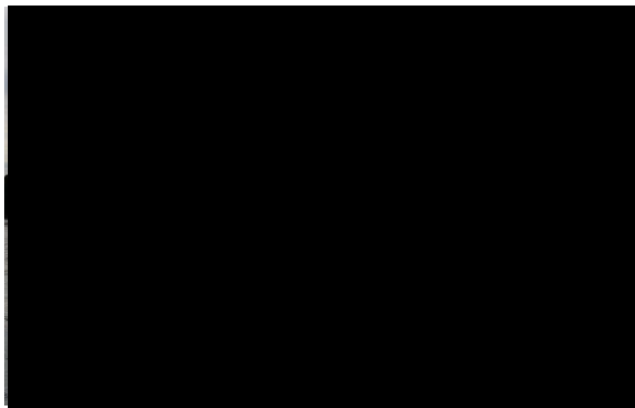
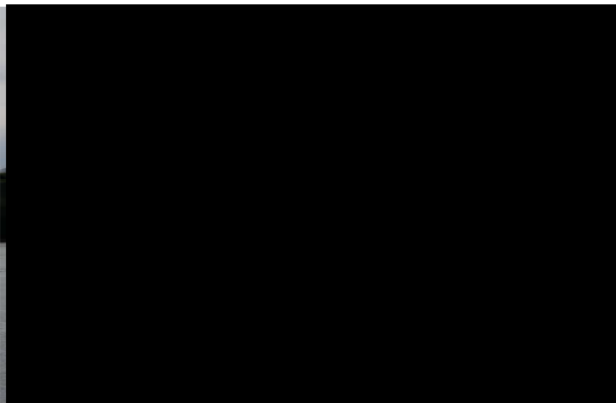
		Site Number: MBBI-9 (CP 1477- 8.6)	
		Site Name: [REDACTED]	
		Division: Mackinac and Bois Blanc Islands Division	
SITE INFORMATION			
Type of Site: Recovery/Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Extremely shallow near the shoreline. Natural collection pocket can be utilized for collection and recovery.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~8.6 Miles)		Nearest Boat Ramp & Distance: Dock #3 Park Boat Ramp ~6.25 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Sand/ Grass	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: Northwest Shoreline Bois Blanc Island
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

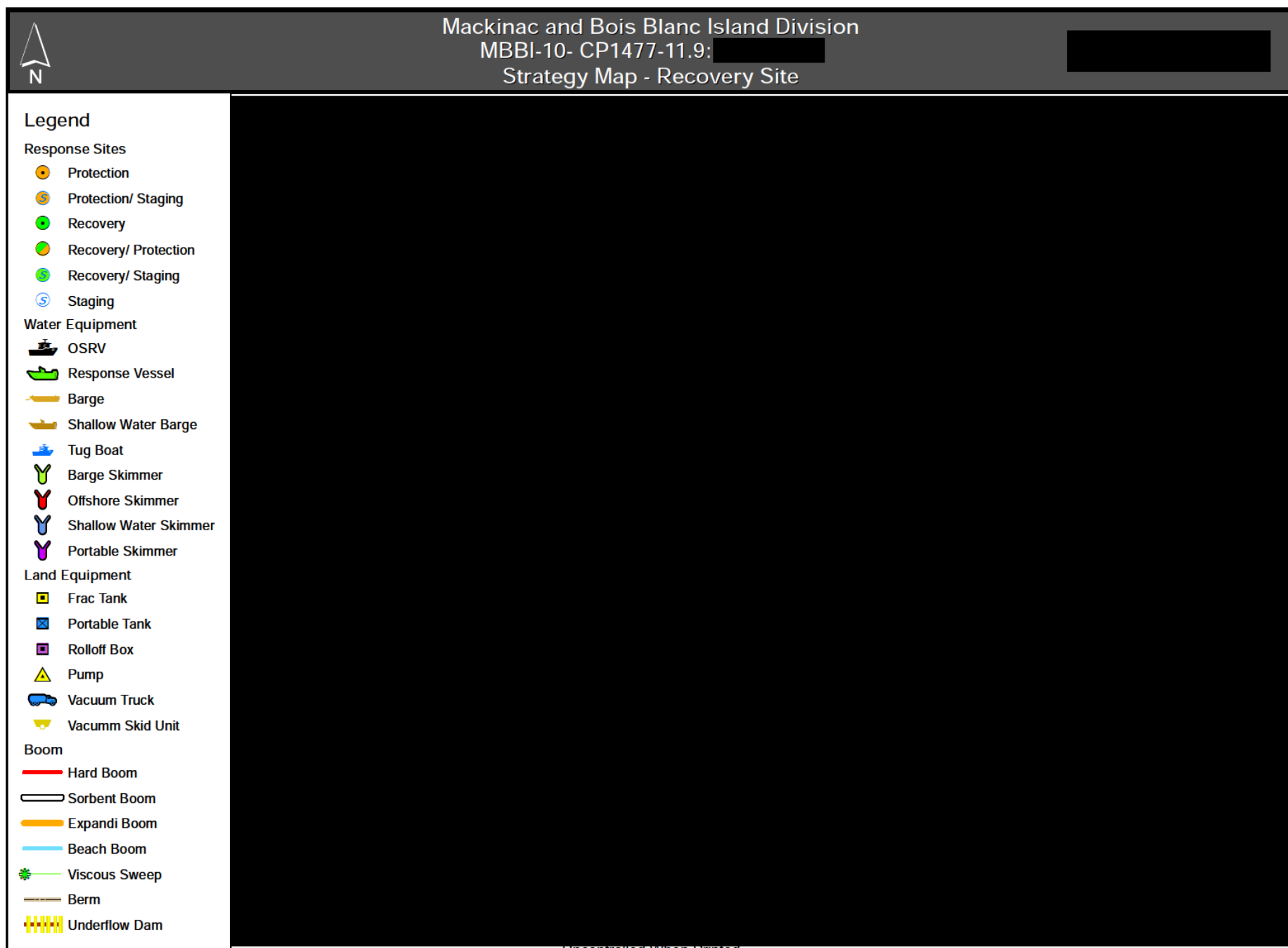
		Site Number: MBBI-9 (CP 1477- 8.6) Site Name: [REDACTED] Division: Mackinac and Bois Blanc Islands Division
SITE PHOTOGRAPHS		
		
1. Shoreline & Recovery Area (Looking South)		2. Shoreline (Looking South)
		
3. Shoreline & Recovery Area (Looking Southeast)		4.
RESPONSE INFORMATION		
Deployment Strategy: Recovery/Protection	High Water: Booming	Low Water: Booming
Boom Required: 1200' VS, 200' HB	Recovery Method: Skimmer, Debris	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: MBBI-9: [REDACTED] (CP 1477-12.4)		
Approved By Signature:				
Assignments				
1.) From the northwestern most point of [REDACTED] deploy 1200' of viscous sweep to the west along the shoreline. 2.) Deploy 200' of hard boom west into the water from northwestern most point of [REDACTED] 3.) Deploy a shallow water skimmer and response vessel to recover product to the extent possible.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
MBBI-9: [REDACTED]	Boom	Hard Boom	200 feet	18 inch(es)
MBBI-9: [REDACTED]	Boom Accessories	Anchor Stakes	15 each	
MBBI-9: [REDACTED]	Boom Accessories	Boom Anchors	4 each	40 pound(s)
MBBI-9: [REDACTED]	Manpower: Operator	Boat Operator	3 each	
MBBI-9: [REDACTED]	Manpower: Responder	Responder	8 each	
MBBI-9: [REDACTED]	Skimmer	Shallow Water Skimmer	1 each	
MBBI-9: [REDACTED]	Vessel	Response Boat	1 each	20 feet
MBBI-9: [REDACTED]	Vessel	Jon Boat	2 each	14 feet
MBBI-9: [REDACTED]	Viscous Sweep	Viscous Sweep	1200 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline of [REDACTED] Recover product to extent possible. Manage a coordinated response effort.				
Location of Work				
MBBI-9 is located off of the northwestern most point of [REDACTED] ~12.4 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:39	Page 1 of 1	© 1997-2012 dbSoft, Inc.

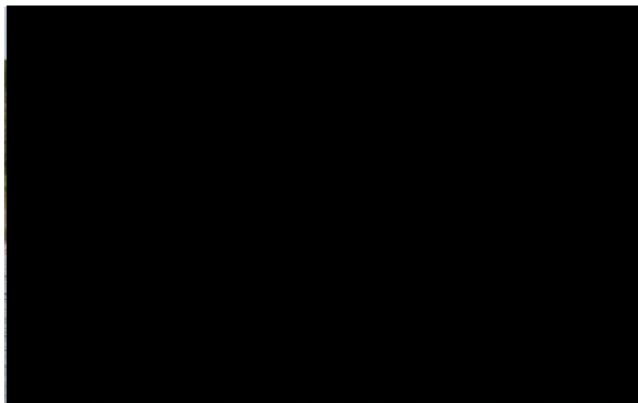
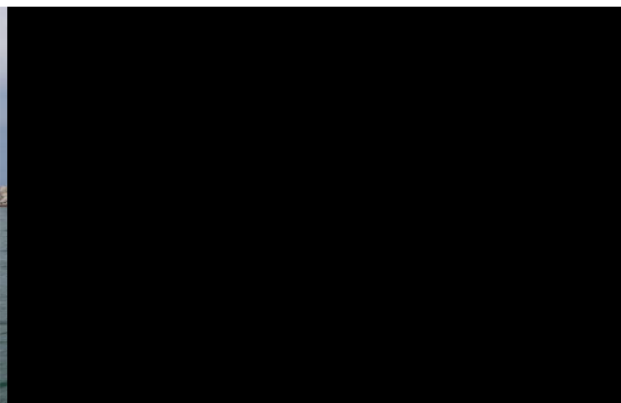
		Site Number: MBBI-10 (CP 1477- 11.9) Site Name: [REDACTED]	
		Division: Mackinac and Bois Blanc Islands Division	
SITE INFORMATION			
Type of Site: Recovery/Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Extremely shallow near in the cove. Natural collection cove is suitable for containment and recovery.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~11.9 Miles)		Nearest Boat Ramp & Distance: Cheboygan Public Boat Ramp ~8 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Sand/ Grass	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: West Shoreline Bois Blanc Island
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

		Site Number: MBBI-10 (CP 1477- 11.9) Site Name: [REDACTED] Division: Mackinac and Bois Blanc Islands Division
SITE PHOTOGRAPHS		
		
1. Shoreline & Recovery Cove (Looking Southeast)		2. Shoreline (Looking East)
		
3.		4.
RESPONSE INFORMATION		
Deployment Strategy: Recovery/Protection	High Water: Booming	Low Water: Booming
Boom Required: 3200' SB & VS, 1000' HB	Recovery Method: Skimmer, Debris	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: MBBI-10: [REDACTED] (CP 1477-11.9)		
Approved By Signature:					
Assignments					
1.) Off of the western point of [REDACTED] deploy 3200' of viscous sweep to the north along the shoreline. 2.) Off of the western point of [REDACTED] deploy 3200' of sorbent boom inland of the viscous sweep to the north along the shoreline. 3.) Deploy 1000' of hard boom west into the water from western point of [REDACTED] 4.) Deploy 2 shallow water skimmers and 2 response vessels to recover product to the extent possible					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
MBBI-10: [REDACTED] (CP 1477-	Boom	Hard Boom	1000 feet	18 inch(es)	
MBBI-10: [REDACTED] (CP 1477-	Boom Accessories	Boom Anchors	20 each	40 pound(s)	
MBBI-10: [REDACTED] (CP 1477-	Boom Accessories	Anchor Stakes	70 each		
MBBI-10: [REDACTED] (CP 1477-	Manpower: Operator	Boat Operator	5 each		
MBBI-10: [REDACTED] (CP 1477-	Manpower: Responder	Responder	18 each		
MBBI-10: [REDACTED] (CP 1477-	Skimmer	Shallow Water Skimmer	2 each		
MBBI-10: [REDACTED] (CP 1477-	Sorbent: Boom	Sorbent Boom	3200 feet	5 inch(es)	
MBBI-10: [REDACTED] (CP 1477-	Vessel	Response Vessel	2 each	20 feet	
MBBI-10: [REDACTED] (CP 1477-	Vessel	Jon Boat	3 each	14 feet	
MBBI-10: [REDACTED] (CP 1477-	Viscous Sweep	Viscous Sweep	3200 feet		
Tactical Objective					
Prevent spilled material from impacting the shoreline of [REDACTED]. Recover product to extent possible. Manage a coordinated response effort.					
Location of Work					
MBBI-10 is located off of the western point of [REDACTED] ~11.9 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
ICS 204 - Assignment List		Printed: 11/2/2012 09:13		Page 1 of 1	
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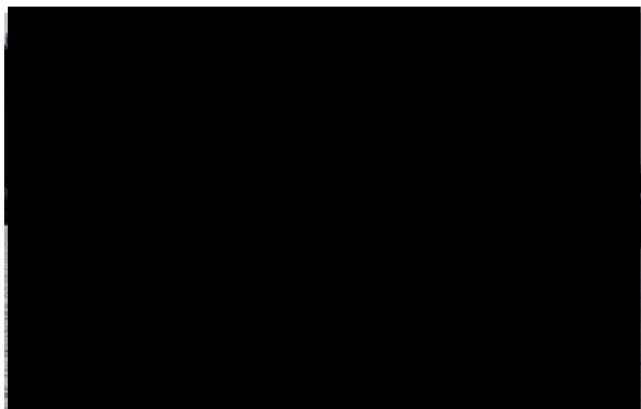
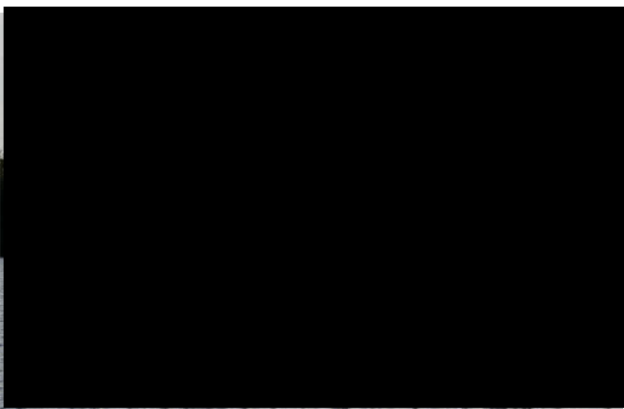
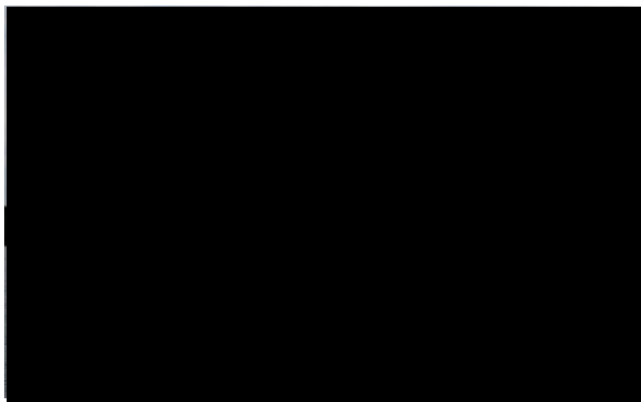
		Site Number: MBBI-11 (CP 1477- 16.5)	
		Site Name: [REDACTED]	
Division: Mackinac and Bois Blanc Islands Division			
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. This Boat Ramp is on the island. Near Pointe Aux Pins on Bois Blanc Island. Vehicles may be utilized on this island but must be transported via ferry to island.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: 175' X 250'	
Nearest Pipeline Crossing & Distance: Line 5 (~16.5 Miles)		Nearest Boat Ramp & Distance: Cheboygan Public Boat Ramp ~5.25 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Rock Barrier, Piers		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Bulkhead	Bank Slope: Steep	Bank Height: ~6'	Existing Facilities: Boat Ramp, Electricity, Water, Restrooms
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: South Shoreline Bois Blanc Island
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

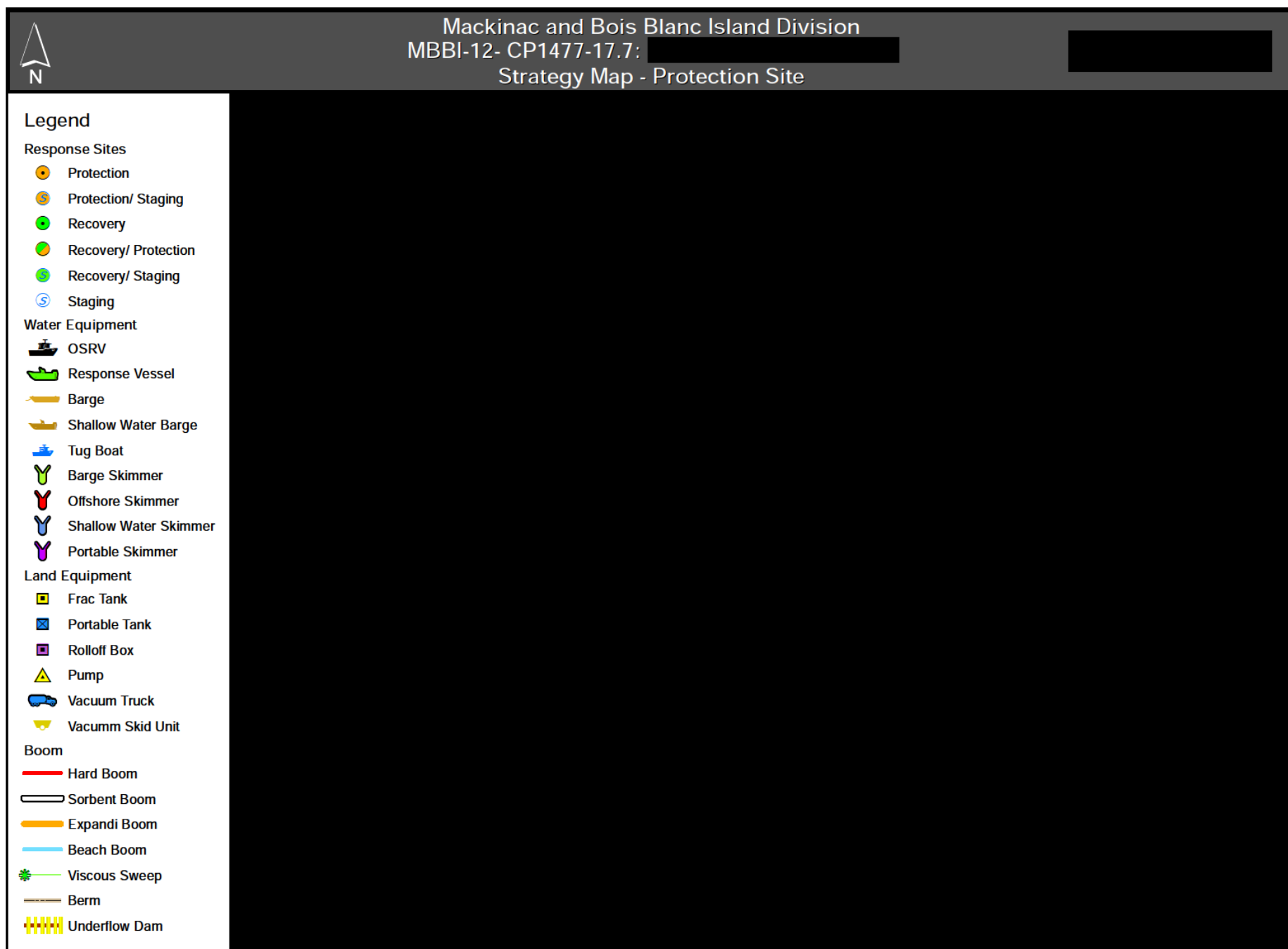
		Site Number: MBBI-11 (CP 1477- 16.5) Site Name: [REDACTED] Division: Mackinac and Bois Blanc Islands Division
SITE PHOTOGRAPHS		
		
1. Boat Ramp (Looking North)		2. Entrance to [REDACTED] (Looking Northwest)
		
3. Bois Blanc Island Welcome Center (Looking West)		4.
RESPONSE INFORMATION		
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes (from island only)
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: MBBI-11: [REDACTED] (CP 1477-16.1)		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
MBBI-11: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
MBBI-11 is located on [REDACTED] ~16.5 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:40	Page 1 of 1	© 1997-2012 dbSoft, Inc.

		Site Number: MBBI-12 (CP 1477- 17.7)	
		Site Name: [REDACTED]	
Division: Mackinac and Bois Blanc Islands Division			
SITE INFORMATION			
Type of Site: Protection Site	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: Outfall from inland lake		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~17.7 Miles)		Nearest Boat Ramp & Distance: Cheboygan Public Boat Ramp ~5 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Sand	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: South Shoreline [REDACTED]
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

		Site Number: MBBI-12 (CP 1477- 17.7) Site Name: [REDACTED] Division: Mackinac and Bois Blanc Islands Division
SITE PHOTOGRAPHS		
		
1. Lake Outfall Bridge (Looking Southwest)		2. Shoreline of Gull Island (Looking Southeast)
		
3. Gull Island (Looking Northeast)		4.
RESPONSE INFORMATION		
Deployment Strategy: Protection	High Water: Booming	Low Water: Booming
Boom Required: 4000' SB, 500' HB	Recovery Method: N/A, Debris	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force:	MBBI-12: [REDACTED]	(CP1477)
Approved By Signature:				
Assignments				
1.) Deploy 3000' of sorbent boom on west side of [REDACTED] along the shoreline. 2.) From the northern point of [REDACTED] deploy hard boom west to the southern shoreline of [REDACTED] 3.) Deploy 1000' of sorbent boom west along the shoreline on the southern side of [REDACTED] as shown on the associated strategy map.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
MBBI-12: [REDACTED]	Boom	Hard Boom	500 feet	18 inch(es)
MBBI-12: [REDACTED]	Boom Accessories	Boom Anchors	10 each	40 pound(s)
MBBI-12: [REDACTED]	Boom Accessories	Anchor Stakes	45 each	
MBBI-12: [REDACTED]	Manpower: Operator	Boat Operator	3 each	
MBBI-12: [REDACTED]	Manpower: Responder	Responder	15 each	
MBBI-12: [REDACTED]	Sorbent: Boom	Sorbent Boom	4000 feet	5 inch(es)
MBBI-12: [REDACTED]	Vessel	Jon Boat	3 each	14 feet
Tactical Objective				
Prevent spilled material from impacting the shoreline of [REDACTED] Manage a coordinated response effort.				
Location of Work				
MBBI-12 is located off of the southern point of [REDACTED] ~17.7 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:40	Page 1 of 1	© 1997-2012 dbSoft, Inc.



*Straits of Mackinac
Tactical Response Plan*

Les Cheneaux Islands Division

Site ID	Name	Drainage System	Type of Site	Distance From Source
LCHI-1	[REDACTED]	Marquette Bay/ Lake Huron	Recovery	17.9 miles
LCHI-2	[REDACTED]	Marquette Bay/ Lake Huron	Recovery	18.9 miles
LCHI-3	[REDACTED]	Marquette Bay/ Lake Huron	Protection	19.8 miles
LCHI-4	[REDACTED]	Hessel Bay/ Lake Huron	Staging	21.1 miles
LCHI-5	[REDACTED]	Lake Huron	Recovery/ Protection	25.6 miles
LCHI-6	[REDACTED]	Muscallonge Bay/ Lake Huron	Staging	27.5 miles
LCHI-7	[REDACTED]	Cedarville Bay/ Lake Huron	Staging	28.6 miles
LCHI-8	[REDACTED]	Cedarville Bay/ Lake Huron	Staging	29.3 miles



*Straits of Mackinac
Tactical Response Plan*

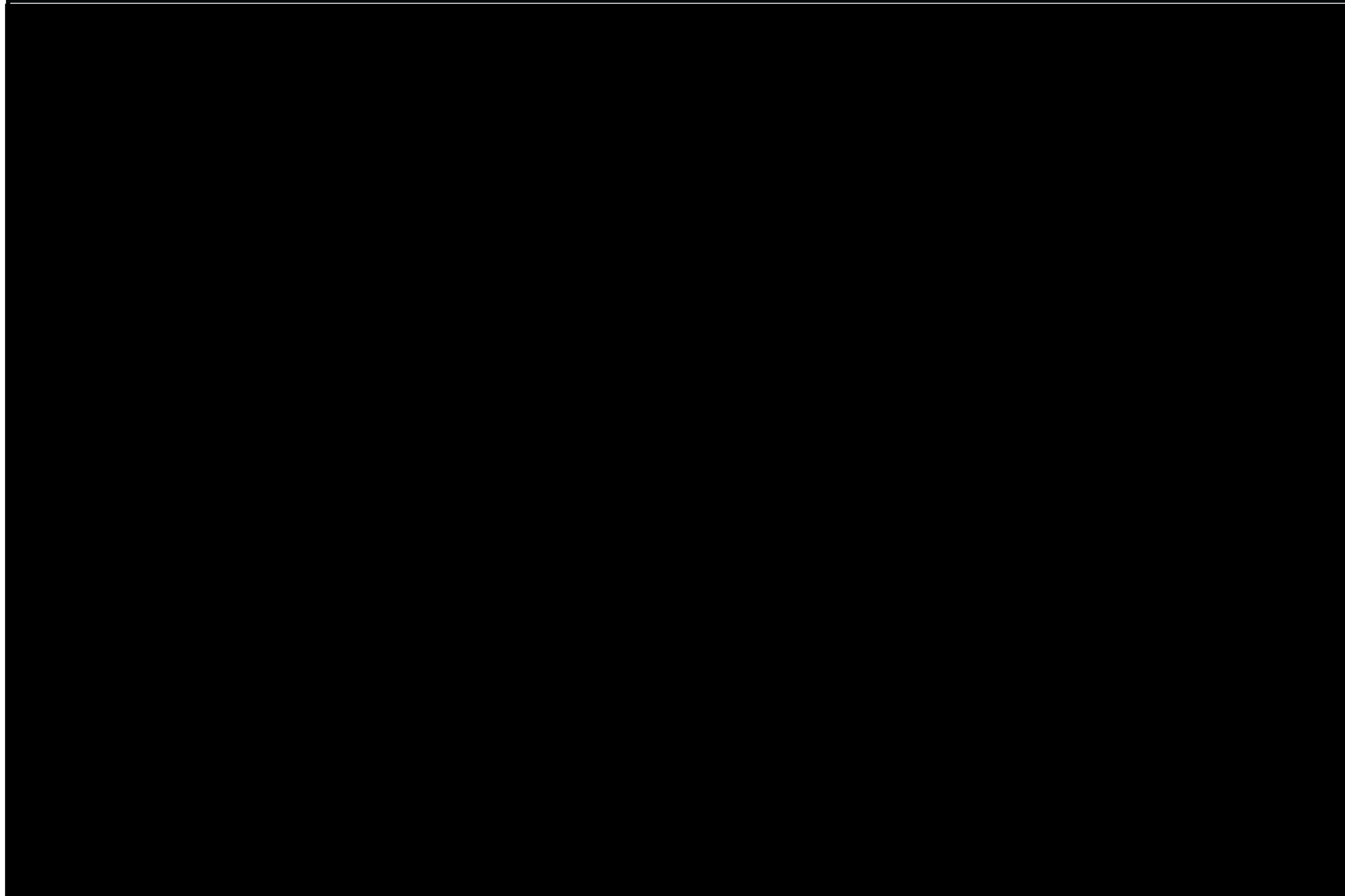
Les Cheneaux Islands Division (Cont.)

Site ID	Name	Drainage System	Type of Site	Distance From Source
LCHI-9	[REDACTED]	Lake Huron	Protection	25.7 miles
LCHI-10	[REDACTED]	Lake Huron	Recovery/ Protection	26.6 miles
LCHI-11	[REDACTED]	Cedarville Bay/ Lake Huron	Protection	28.9 miles
LCHI-12	[REDACTED]	McKay Bay/ Lake Huron	Staging	31.0 miles

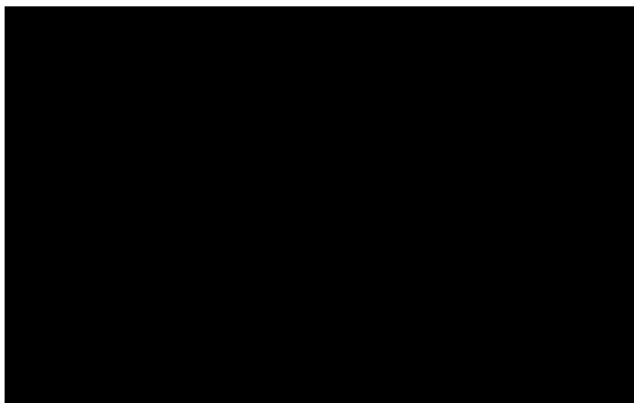
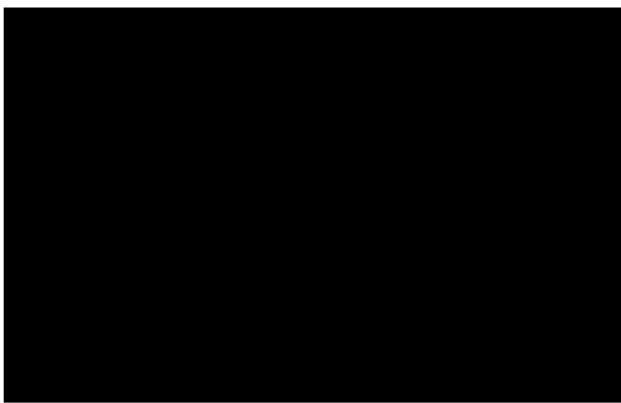
- Grey highlight = potential staging area

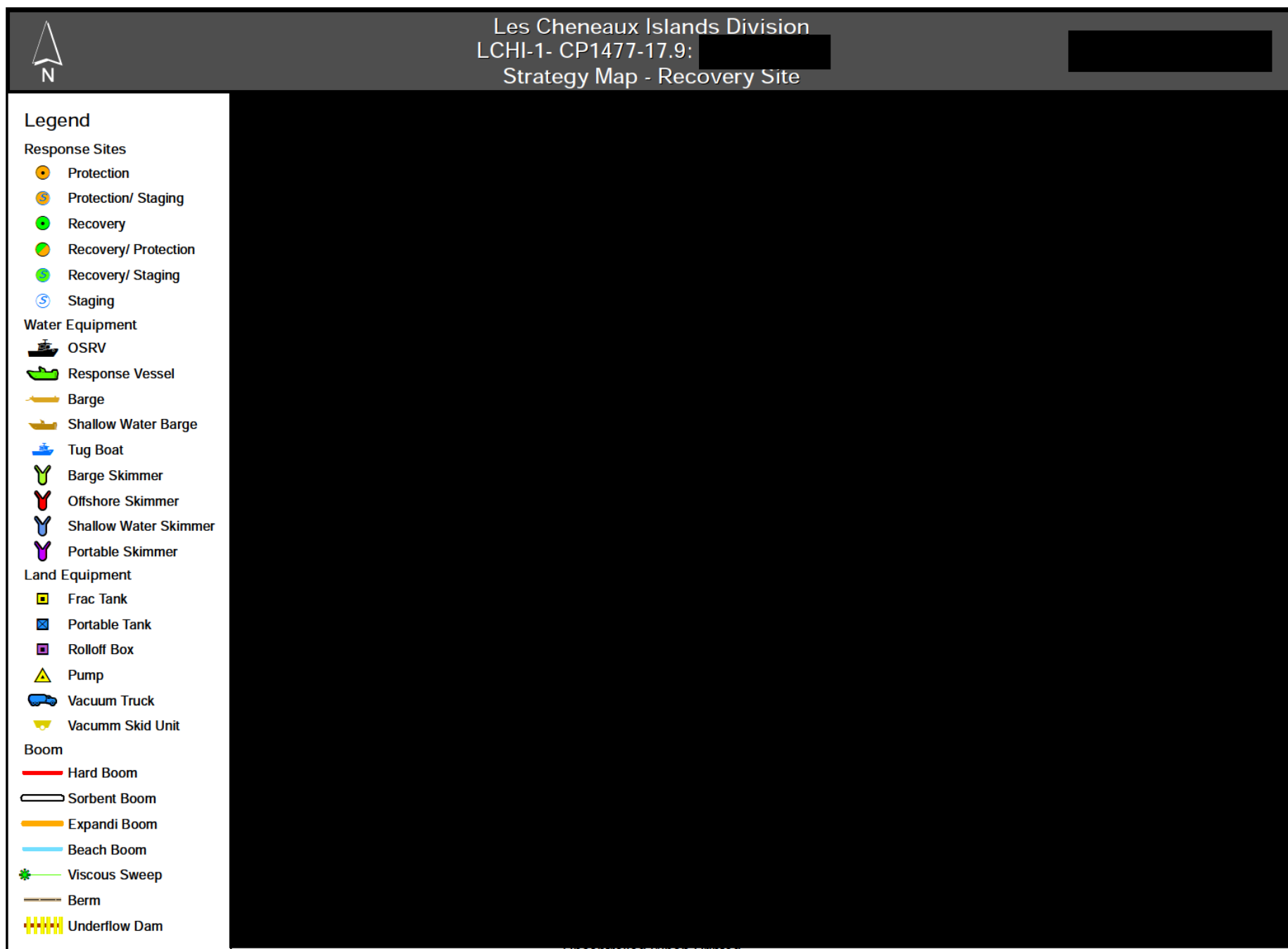


Straits of Mackinac Response Plan
Les Cheneaux Islands Division



		Site Number: LCHI-1 (CP 1477- 17.9) Site Name: [REDACTED]	
		Division: Les Cheneaux Islands Division	
SITE INFORMATION			
Type of Site: Recovery	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Collection area along [REDACTED] Collection area may be accessible using an ATV from the shoreline.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~17.9 Miles)		Nearest Boat Ramp & Distance: Hessel Marine Boat Ramp ~3 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: North Shoreline Lake Huron
Communication Requirements/Availability: Inadequate cellular coverage. Cellular service is spotty.			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

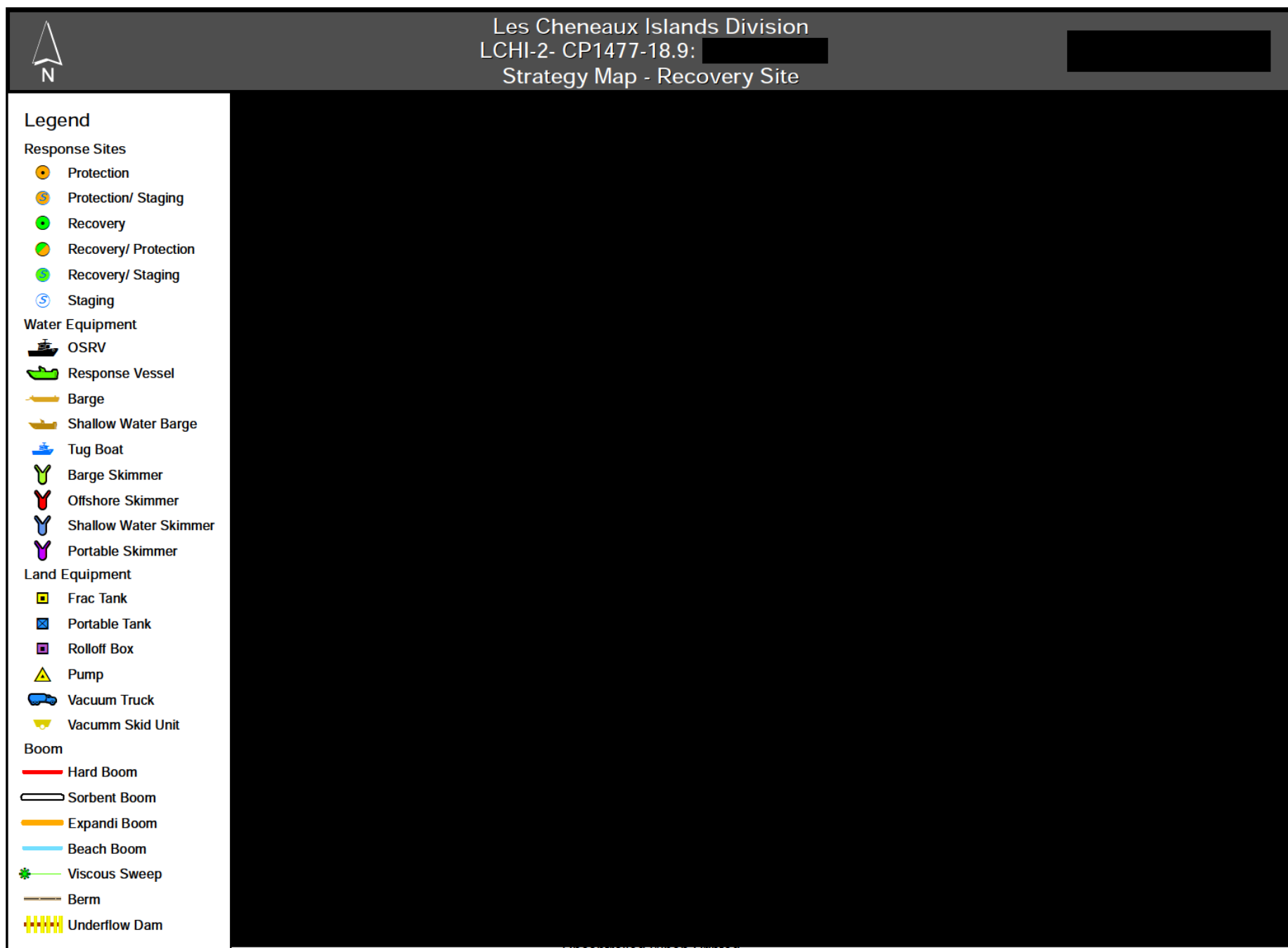
		Site Number: LCHI-1 (CP 1477- 17.9) Site Name: [REDACTED] Division: Les Cheneaux Islands Division
SITE PHOTOGRAPHS		
		
1. Collection Area Point (Looking Northwest)		2. Collection Area Point (Looking East)
3.		4.
RESPONSE INFORMATION		
Deployment Strategy: Recovery	High Water: Booming	Low Water: Booming
Boom Required: 1000' HB, 1700' VS	Recovery Method: Skimmer	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: LCHI-1: [REDACTED] (CP 1477-17.9)		
Approved By Signature:					
Assignments					
1.) Deploy 1700' of viscous sweep along the southern tip of [REDACTED] 2.) Deploy 1000' of hard boom on the eastern tip of the viscous sweep stated in #1 outward at an angle dependent on current speed. 3.) Deploy a shallow water skimmer and response vessel to recover product to the extent possible.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
LCHI-1: [REDACTED] (CP 1477)	Boom	Hard Boom	1000 feet	18 inch(es)	
LCHI-1: [REDACTED] (CP 1477)	Boom Accessories	Anchor Stakes	20 each		
LCHI-1: [REDACTED] (CP 1477)	Boom Accessories	Boom Anchors	20 each	40 pound(s)	
LCHI-1: [REDACTED] (CP 1477)	Manpower: Operator	Boat Operator	3 each		
LCHI-1: [REDACTED] (CP 1477)	Manpower: Responder	Responder	10 each		
LCHI-1: [REDACTED] (CP 1477)	Skimmer	Shallow Water Skimmer	1 each		
LCHI-1: [REDACTED] (CP 1477)	Vessel	Jon Boat	2 each	14 feet	
LCHI-1: [REDACTED] (CP 1477)	Vessel	Response Boat	1 each	20 feet	
LCHI-1: [REDACTED] (CP 1477)	Viscous Sweep	Viscous Sweep	1700 feet		
Tactical Objective					
Prevent spilled material from impacting the shoreline at [REDACTED] Recover product to extent possible. Manage a coordinated response effort.					
Location of Work					
LCHI-1 is located at the SW tip of [REDACTED] ~17.9 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
Special Site-Specific Safety Considerations					
Water is very shallow and rocky. Use caution when working in this area.					
ICS 204 - Assignment List		Printed: 11/3/2012 01:42		Page 1 of 1	
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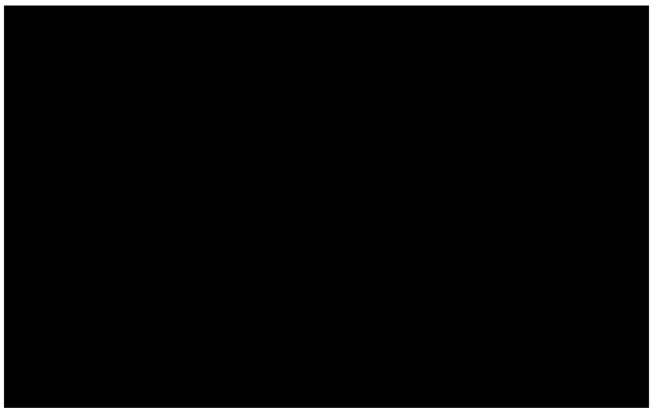
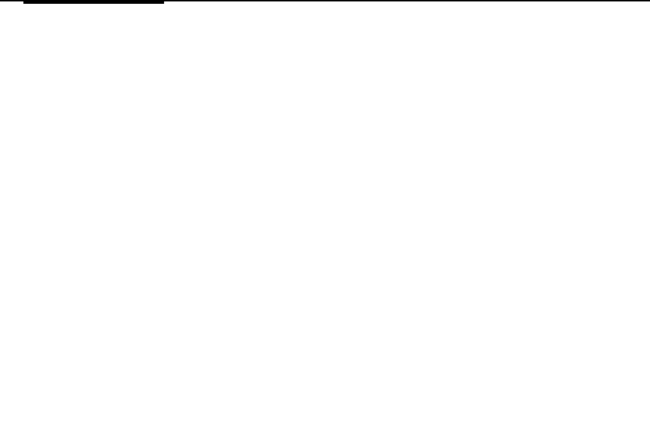
		Site Number: LCHI-2 (CP 1477- 18.9) Site Name: [REDACTED]	
		Division: Les Cheneaux Islands Division	
SITE INFORMATION			
Type of Site: Recovery	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Point is only accessible by boat.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~18.9 Miles)		Nearest Boat Ramp & Distance: Hessel Marine Boat Ramp ~3.25 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: North Shoreline Lake Huron/ South Shoreline Marquette Bay
Communication Requirements/Availability: Inadequate cellular coverage. Cellular service is spotty.			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

		Site Number: LCHI-2 (CP 1477- 18.9) Site Name: [REDACTED] Division: Les Cheneaux Islands Division	
SITE PHOTOGRAPHS			
			
1. Shoreline Collection Area (Looking East)		2. Shoreline (Looking Southeast)	
			
3.		4.	
RESPONSE INFORMATION			
Deployment Strategy: Recovery	High Water: Booming	Low Water: Booming	
Boom Required: 1400' HB, 1000' VS	Recovery Method: Skimmer	Tank Truck Access: No	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: LCHI-2: [REDACTED] (CP 1477-18.9)		
Approved By Signature:					
Assignments					
1.) Deploy 1000' of viscous sweep along the southern tip of [REDACTED] 2.) Deploy 1000' of hard boom on the northern tip of the viscous sweep stated in #1 outward at an angle dependent on current speed. 3.) Deploy a shallow water skimmer and response vessel to recover product to the extent possible. 4.) Off the tip of [REDACTED] to the west, deploy an OSRV and 2 response vessels to form a V-boom configuration to corral and recover spilled product.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
LCHI-[REDACTED] (CP 1477-	Boom	Hard Boom	1400 feet	18 inch(es)	
LCHI-[REDACTED] (CP 1477-	Boom Accessories	Anchor Stakes	20 each		
LCHI-[REDACTED] (CP 1477-	Boom Accessories	Boom Anchors	20 each	40 pound(s)	
LCHI-[REDACTED] (CP 1477-	Manpower: Operator	Boat Operator	6 each		
LCHI-[REDACTED] (CP 1477-	Manpower: Responder	Responder	16 each		
LCHI-[REDACTED] (CP 1477-	OSRV	OSRV	1 each		
LCHI-[REDACTED] (CP 1477-	Skimmer	Shallow Water Skimmer	1 each		
LCHI-[REDACTED] (CP 1477-	Vessel	Jon Boat	2 each	14 feet	
LCHI-[REDACTED] (CP 1477-	Vessel	Response Boat	3 each	20 feet	
LCHI-[REDACTED] (CP 1477-	Viscous Sweep	Viscous Sweep	1000 feet		
Tactical Objective					
Prevent spilled material from impacting the shoreline at [REDACTED] Recover product to extent possible. Manage a coordinated response effort.					
Location of Work					
LCHI-2 is located at the NW tip of [REDACTED] ~18.9 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
ICS 204 - Assignment List		Printed: 11/3/2012 01:42		Page 1 of 1	
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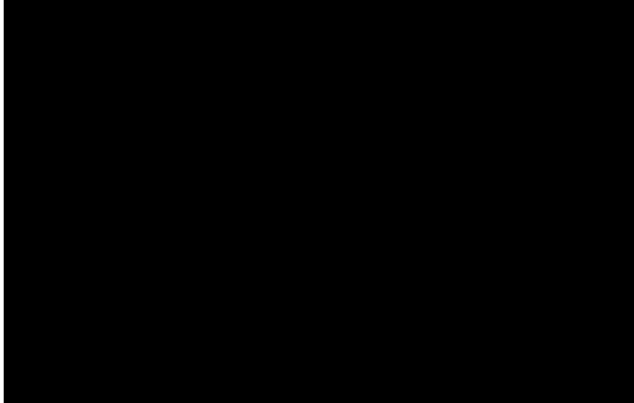
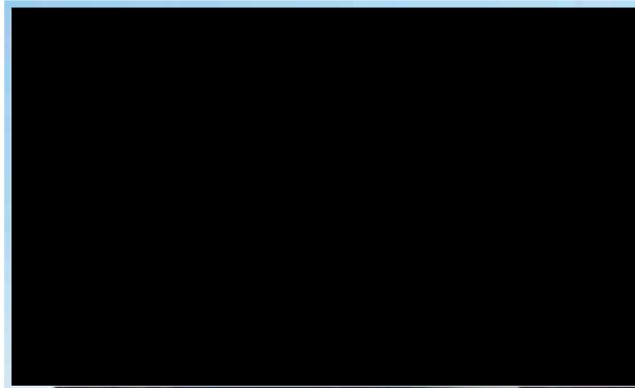
		Site Number: LCHI-3 (CP 1477- 19.8) Site Name: [REDACTED]	
		Division: Les Cheneaux Islands Division	
SITE INFORMATION			
Type of Site: Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Sandy wash-over between Marquette Bay and Wilderness Bay. Use caution while boating due to rocks.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~19.8 Miles)		Nearest Boat Ramp & Distance: Hessel Marine Boat Ramp ~3 Miles	
WATERWAY INFORMATION			
Type of Waterway: Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: North Shoreline Marquette Bay
Communication Requirements/Availability: Inadequate cellular coverage. Cellular service is spotty.			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

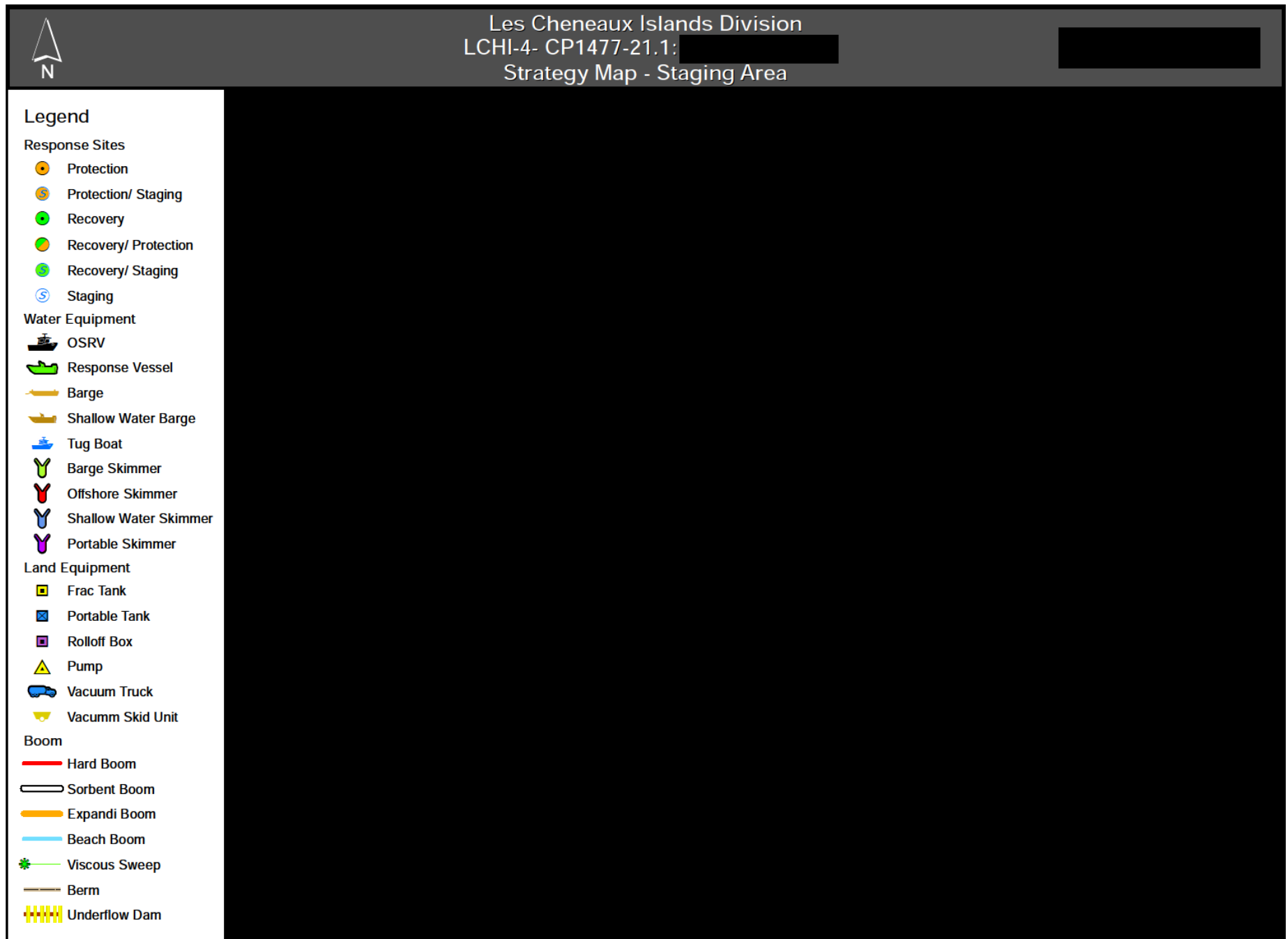
		Site Number: LCHI-3 (CP 1477- 19.8) Site Name: [REDACTED] Division: Les Cheneaux Islands Division	
SITE PHOTOGRAPHS			
			
1. [REDACTED] (Looking North)		2. Shoreline Cut (Looking North)	
			
3.		4.	
RESPONSE INFORMATION			
Deployment Strategy: Protection	High Water: Booming	Low Water: Booming	
Boom Required: 400' BB	Recovery Method: N/A	Tank Truck Access: No	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: LCHI-3: [REDACTED] (CP 1477-19.8)		
Approved By Signature:					
Assignments					
1.) Deploy 400' of beach boom between the SE tip of [REDACTED] and the tip of [REDACTED] as shown on the associated strategy map.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
LCHI-3: [REDACTED] (CP 1477-	Boat Operator	Boat Operator	1 each		
LCHI-3: [REDACTED] (CP 1477-	Boom	Beach Boom	400 feet	22 inch(es)	
LCHI-3: [REDACTED] (CP 1477-	Boom Accessories	Anchor Stakes	10 each		
LCHI-3: [REDACTED] (CP 1477-	Manpower: Responder	Responder	3 each		
LCHI-3: [REDACTED] (CP 1477-	Vessel	Jon Boat	1 each	14 feet	
Tactical Objective					
Prevent spilled material from entering [REDACTED] Manage a coordinated response effort.					
Location of Work					
LCHI-3 is located at the SE tip of S. [REDACTED] and ~19.8 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					

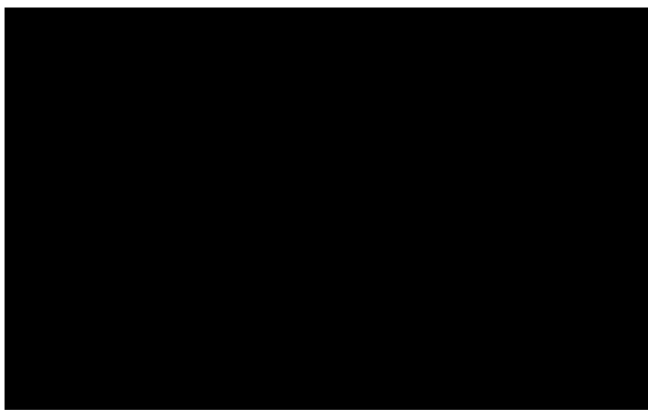
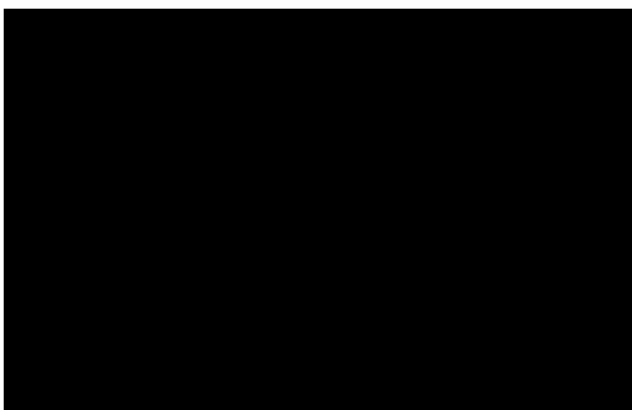
		Site Number: LCHI-4 (CP 1477- 21.1) Site Name: [REDACTED]	
		Division: Les Cheneaux Islands Division	
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. [REDACTED] Phone: (906) 484 -3917 or (906) 484-2672			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: 125' X 125'	
Nearest Pipeline Crossing & Distance: Line 5 (~21.1 Miles)		Nearest Boat Ramp & Distance: [REDACTED] Boat Ramp ~ At Site	
WATERWAY INFORMATION			
Type of Waterway: Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Bulkhead	Bank Slope: Steep	Bank Height: ~6'	Existing Facilities: Boat Ramp, Fuel, Lighting, Electricity, Water
ACCESS INFORMATION			
Type of Access: Boat, Road	Road Type: Secondary Highway	Road Surface: Paved	Access Location: North Shoreline [REDACTED]
Communication Requirements/Availability: Inadequate cellular coverage. Cellular service is spotty.			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/14/2012

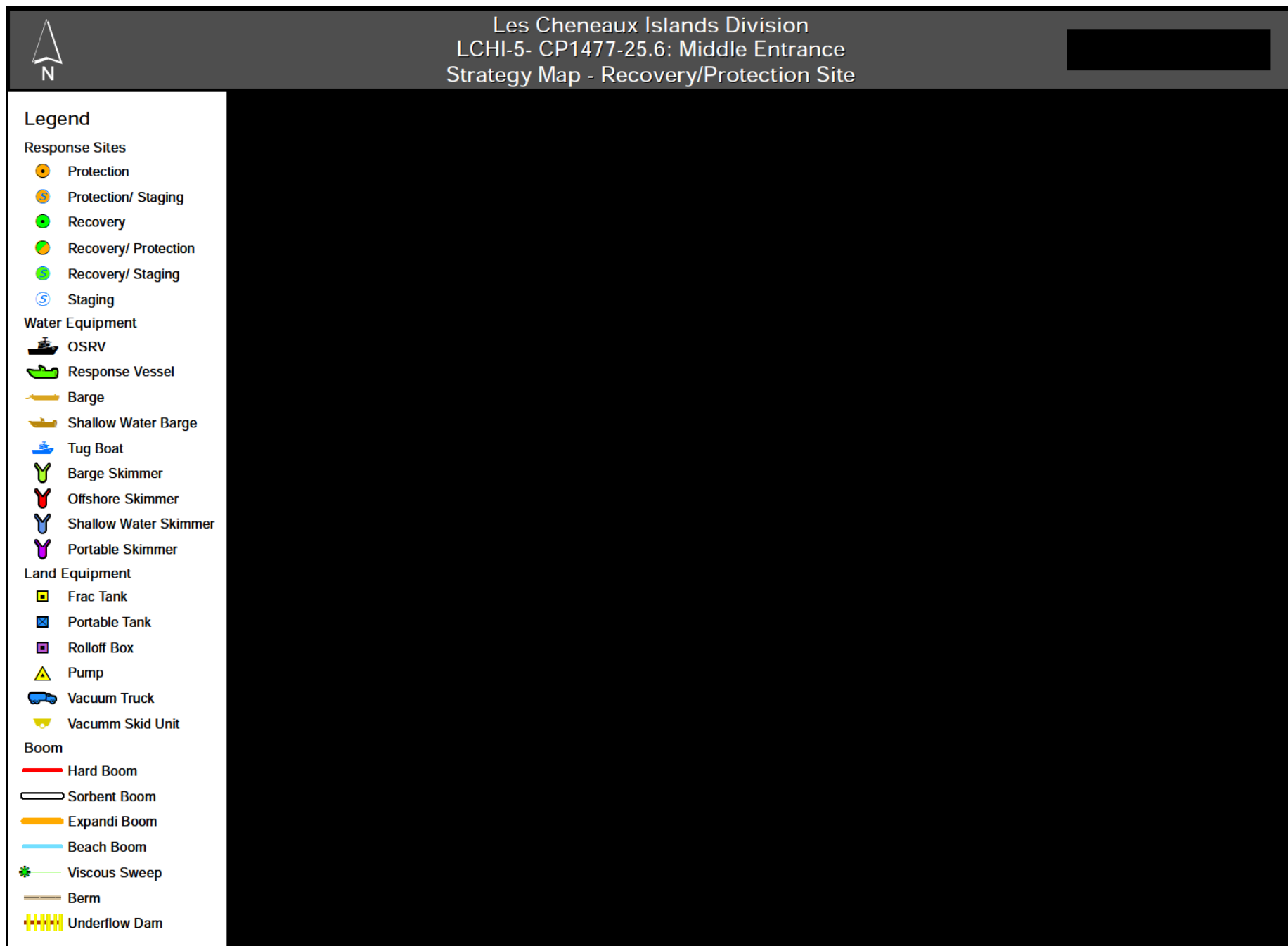
		Site Number: LCHI-4 (CP 1477- 21.1) Site Name: [REDACTED] Division: Les Cheneaux Islands Division	
SITE PHOTOGRAPHS			
			
1. Boat Ramp (Looking Southeast)		2. Parking/Staging Area (Looking North)	
			
3. [REDACTED] Sign (Looking South)		4. [REDACTED] Boat Slips and Fueling (Looking Southeast)	
RESPONSE INFORMATION			
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A	
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: LCHI-4: [REDACTED] CP 1477-21.1)		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
LCHI-4: [REDACTED] CP 147	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
LCHI-4 is located at the intersection of [REDACTED] and ~21.1 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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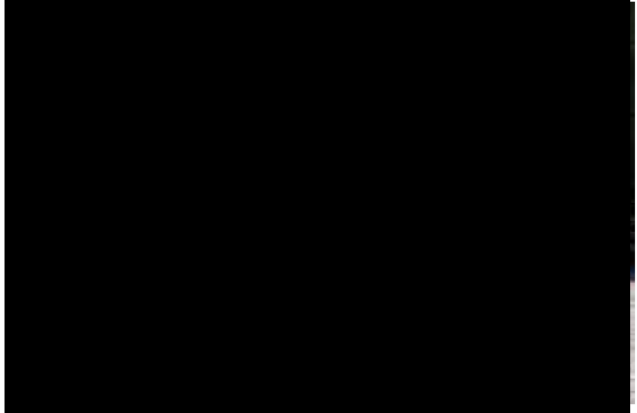
		Site Number: LCHI-5 (CP 1477- 25.6) Site Name: [REDACTED]	
		Division: Les Cheneaux Islands Division	
SITE INFORMATION			
Type of Site: Recovery/Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. At the entrance to Peck Bay. Use caution due to wind and waves that may be present from the lake depending on wind direction. This site is only accessible by boat.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~25.6 Miles)		Nearest Boat Ramp & Distance: Woodland Dr Boat Ramp ~ 1.75 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: North Shoreline Lake Huron
Communication Requirements/Availability: Inadequate cellular coverage. Cellular service is spotty.			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

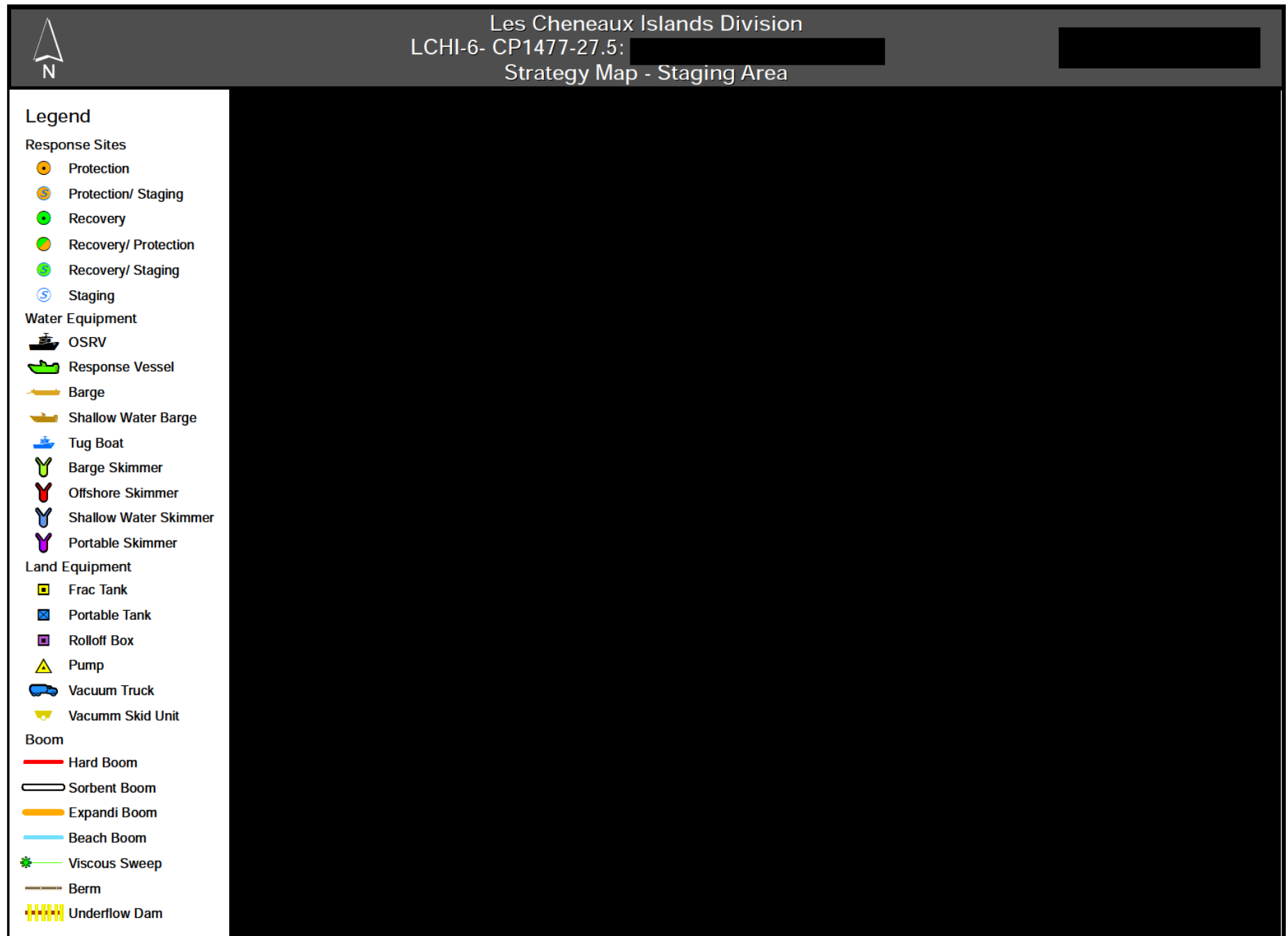
		Site Number: LCHI-5 (CP 1477- 25.6) Site Name: [REDACTED] Division: Les Cheneaux Islands Division	
SITE PHOTOGRAPHS			
			
1. Peck Bay Entrance (Looking Northwest)		2. Near Peck Bay Entrance (Looking Northwest)	
3.		4.	
RESPONSE INFORMATION			
Deployment Strategy: Recovery/Protection	High Water: Booming	Low Water: Booming	
Boom Required: 800' HB	Recovery Method: Skimmer	Tank Truck Access: No	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: LCHI-5: [REDACTED] (CP 1477-25.6)		
Approved By Signature:					
Assignments					
1.) Deploy 400' of hard boom across the mouth of [REDACTED] as shown on the associated strategy map. 2.) To the East of the Mouth of [REDACTED] deploy an OSRV and 2 response vessels, with 200' of boom, to form a V-boom configuration to corral and recover spilled product to the extent possible.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
LCHI-5: [REDACTED] (CP 1	Boom	Hard Boom	800 feet	18 inch(es)	
LCHI-5: [REDACTED] (CP 1	Boom Accessories	Anchor Stakes	8 each		
LCHI-5: [REDACTED] (CP 1	Boom Accessories	Boom Anchors	6 each	40 pound(s)	
LCHI-5: [REDACTED] (CP 1	Manpower: Operator	Boat Operator	4 each		
LCHI-5: [REDACTED] (CP 1	Manpower: Responder	Responder	11 each		
LCHI-5: [REDACTED] (CP 1	OSRV	OSRV	1 each		
LCHI-5: [REDACTED] (CP 1	Vessel	Response Vessel	2 each	20 feet	
LCHI-5: [REDACTED] (CP 1	Vessel	Jon Boat	1 each	14 feet	
Tactical Objective					
Prevent spilled material from entering [REDACTED] Recover spilled product to extent possible. Manage a coordinated response effort.					
Location of Work					
LCHI-5 is located at the mouth of [REDACTED] and ~25.6 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
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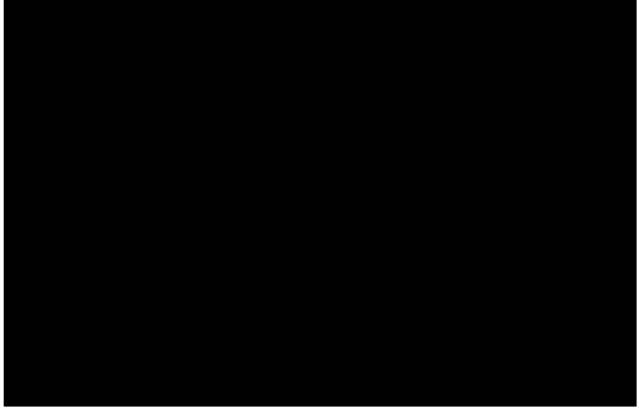
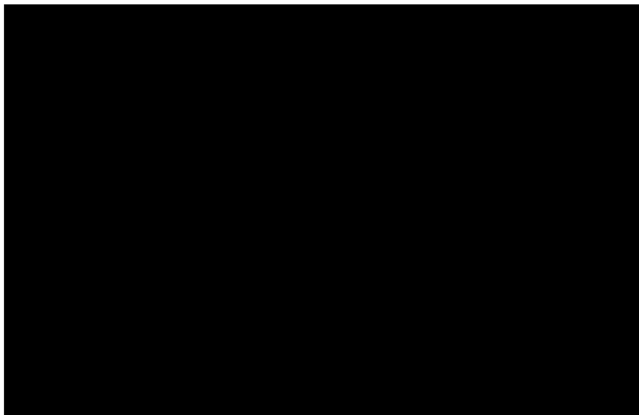
		Site Number: LCHI-6 (CP 1477- 27.5) Site Name: [REDACTED]	
		Division: Les Cheneaux Islands Division	
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Boat ramp and narrow staging area that is paved along [REDACTED]. Use caution while boating due to rocks.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: 50' X 350'	
Nearest Pipeline Crossing & Distance: Line 5 (~27.5 Miles)		Nearest Boat Ramp & Distance: [REDACTED] Boat Ramp ~ At Site	
WATERWAY INFORMATION			
Type of Waterway: Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: 1300' High: 1400'
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: Boat Ramp
ACCESS INFORMATION			
Type of Access: Boat, Road	Road Type: Secondary Highway	Road Surface: Paved/Gravel	Access Location: North Shoreline Muscallonge Bay
Communication Requirements/Availability: Inadequate cellular coverage. Cellular service is spotty.			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/14/2012

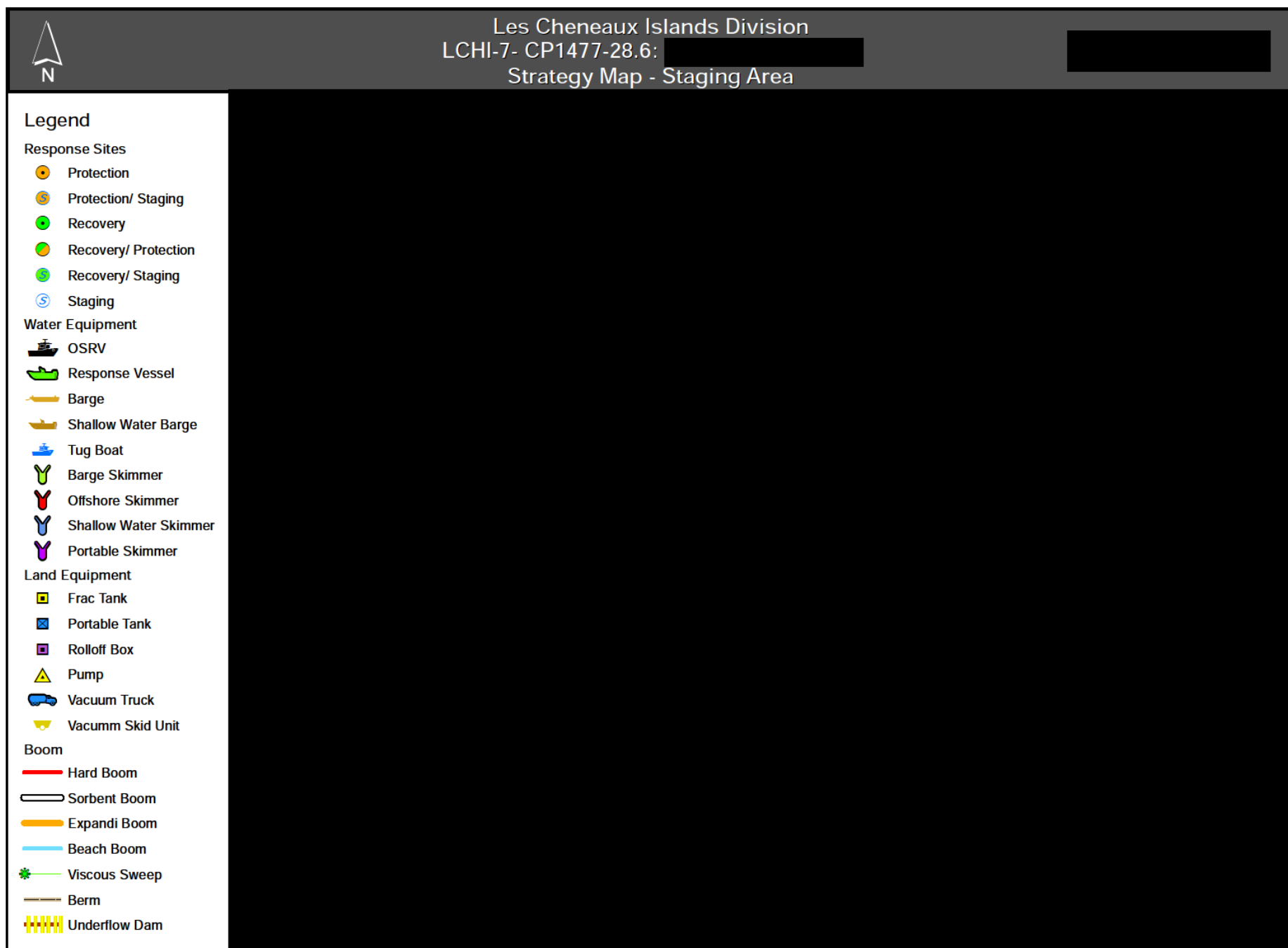
		Site Number: LCHI-6 (CP 1477- 27.5) Site Name: [REDACTED] Division: Les Cheneaux Islands Division	
SITE PHOTOGRAPHS			
			
1. Boat Ramp (Looking South)		2. Parking/Staging Area (Looking South)	
			
3. Park Sign (Looking South)		4.	
RESPONSE INFORMATION			
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A	
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: LCHI-6: [REDACTED] (CP 147)		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
LCHI-6: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
LCHI-6 is located at the intersection of [REDACTED] ~27.5 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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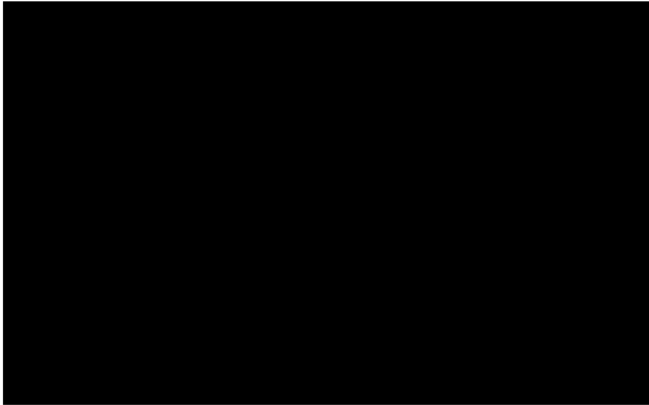
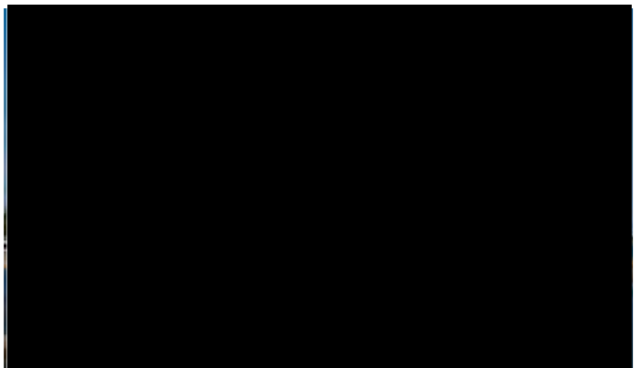
		Site Number: LCHI-7 (CP 1477- 28.6) Site Name: [REDACTED]	
		Division: Les Cheneaux Islands Division	
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Boat Ramp and Staging Area. Use caution while boating due to rocks. [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Nearby Sensitivities: N/A		Staging Area Size: 50' X 200'	
Nearest Pipeline Crossing & Distance: Line 5 (~28.6 Miles)		Nearest Boat Ramp & Distance: [REDACTED] Boat Ramp ~ At Site	
WATERWAY INFORMATION			
Type of Waterway: Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: 800' High: 900'
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Medium	Bank Height: ~5'	Existing Facilities: Boat Ramp, Warehouses, Electricity, Restrooms, Lighting, Electricity, Fuel, Marine Service
ACCESS INFORMATION			
Type of Access: Boat, Road	Road Type: Secondary Highway	Road Surface: Paved/Gravel	Access Location: West Shoreline Cedarville/Islington Bay
Communication Requirements/Availability: Inadequate cellular coverage. Cellular service is spotty.			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/14/2012

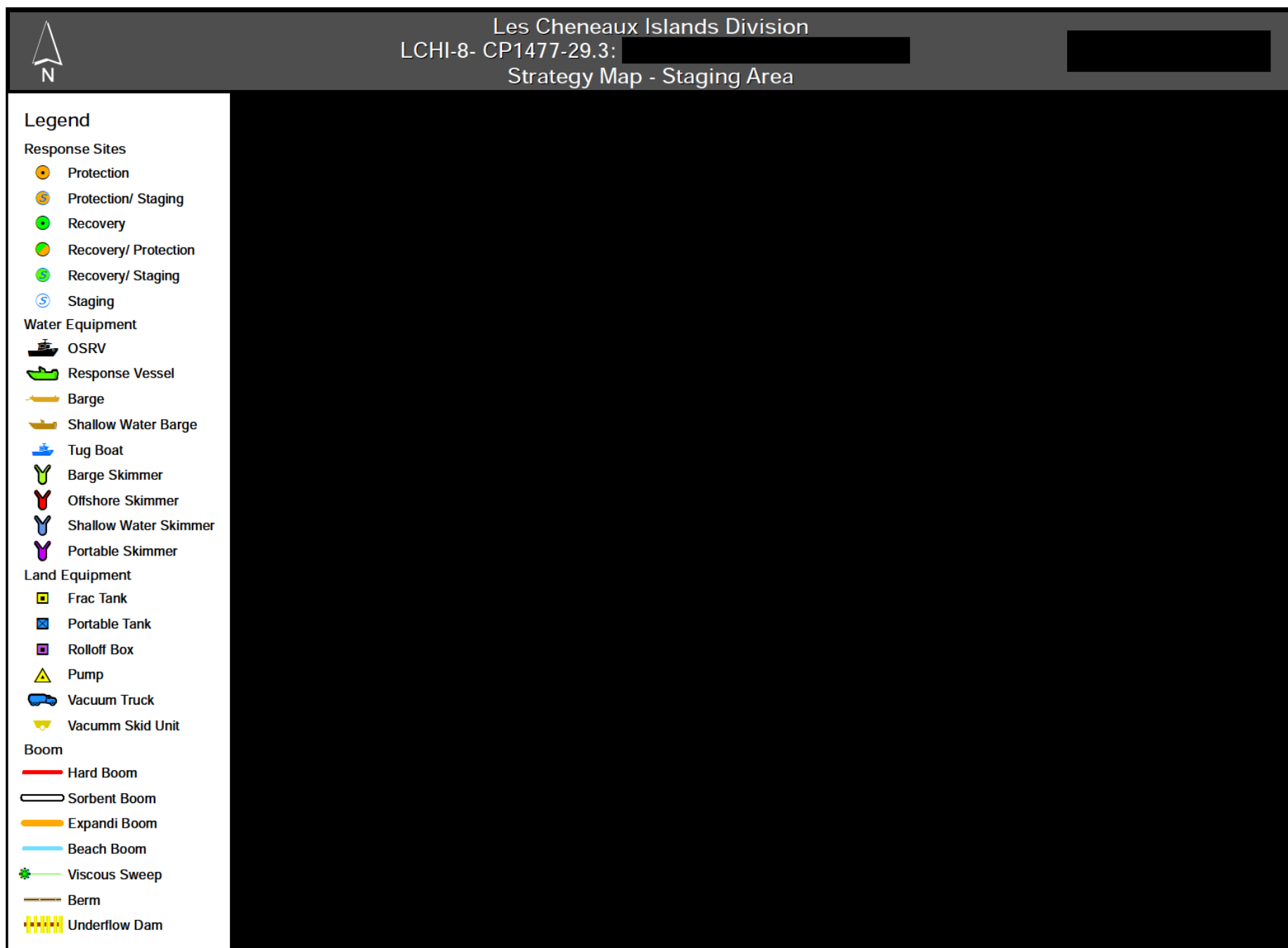
		Site Number: LCHI-7 (CP 1477- 28.6) Site Name: [REDACTED] Division: Les Cheneaux Islands Division	
SITE PHOTOGRAPHS			
			
1. Boat Ramp (Looking Northeast)		2. Parking/Staging Area (Looking North)	
			
3. Warehouse/Sign (Looking West)		4.	
RESPONSE INFORMATION			
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A	
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: LCHI-7: [REDACTED] (CP 1477-28.6)		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
LCHI-7: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
LCHI-7 is located at the intersection of [REDACTED] at [REDACTED] ~28.6 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:43	Page 1 of 1	© 1997-2012 dbSoft, Inc.

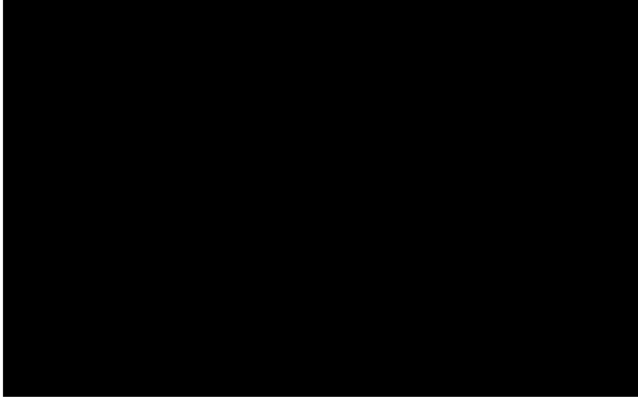
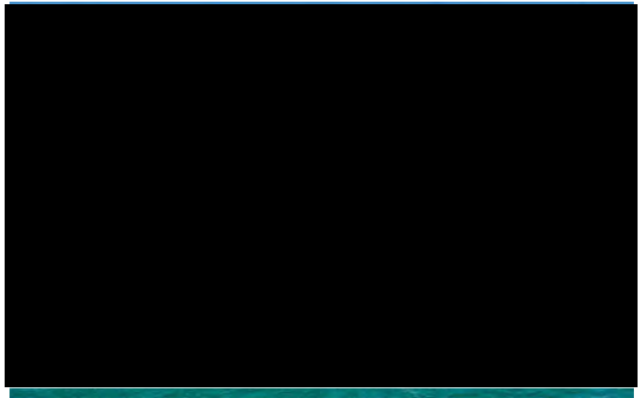
		Site Number: LCHI-8 (CP 1477- 29.3)	
		Site Name: [REDACTED]	
Division: Les Cheneaux Islands Division			
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution with north winds, ramp may become shallow and not usable. [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: N/A		Staging Area Size: 150' X 200'	
Nearest Pipeline Crossing & Distance: Line 5 (~29.3 Miles)		Nearest Boat Ramp & Distance: [REDACTED] Boat Ramp ~ At Site	
WATERWAY INFORMATION			
Type of Waterway: Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: 100' High: 150'
Flow Impediments (e.g. dams, locks, debris) Pier		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock/ Grass	Bank Slope: Medium	Bank Height: ~4'	Existing Facilities: Boat Ramp
ACCESS INFORMATION			
Type of Access: Boat, Road	Road Type: Secondary Highway	Road Surface: Paved/Gravel	Access Location: West Shoreline Cedarville Bay
Communication Requirements/Availability: Inadequate cellular coverage. Cellular service is spotty.			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/14/2012

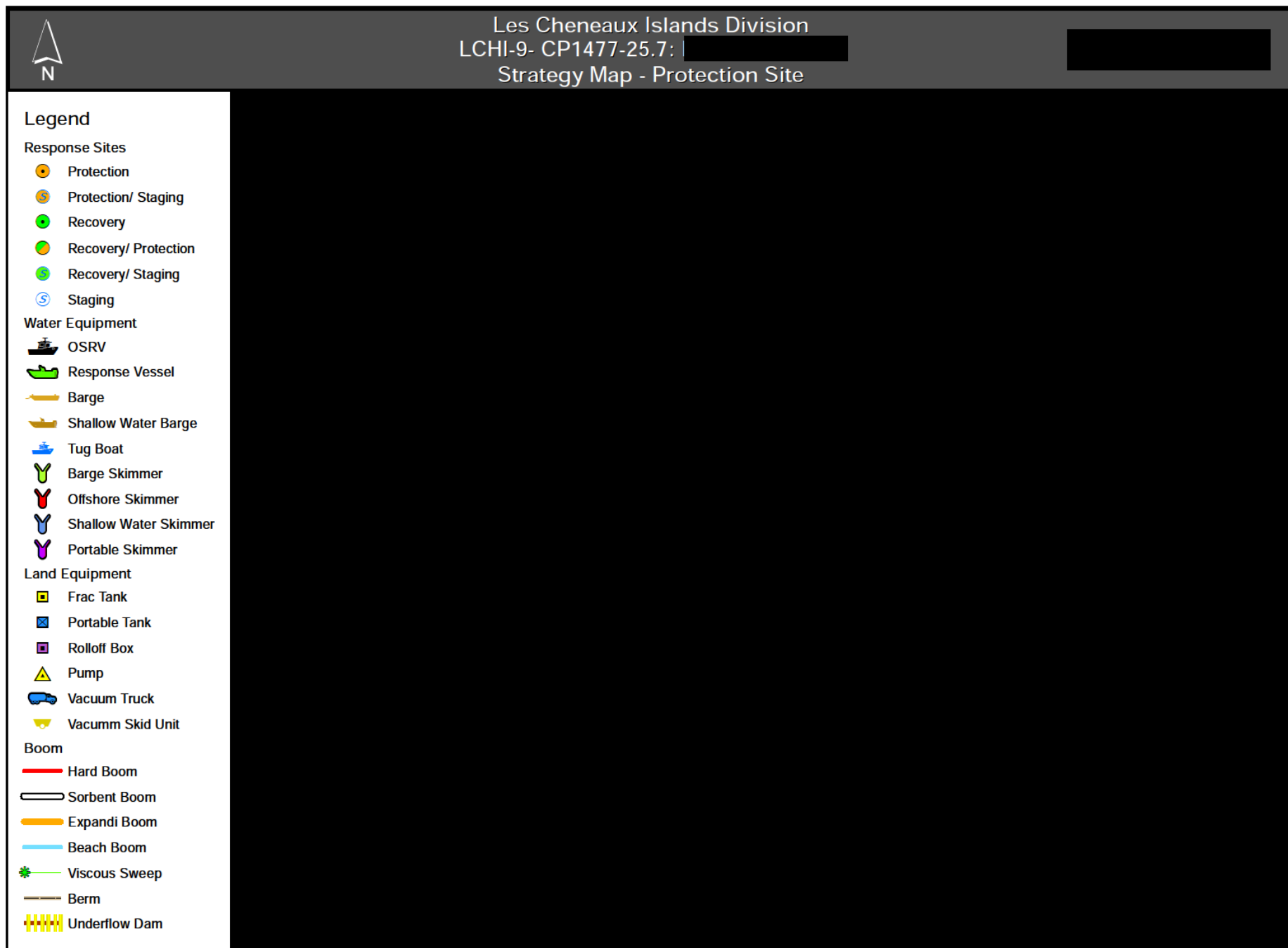
		Site Number: LCHI-8 (CP 1477- 29.3) Site Name: [REDACTED] Division: Les Cheneaux Islands Division
SITE PHOTOGRAPHS		
		
1. Boat Ramp (Looking East)		2. Parking/Staging Area (Looking West)
		
3. Parking/Staging Area (Looking East)		4. Boat Ramp Sign (Looking East)
RESPONSE INFORMATION		
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: LCHI-8: [REDACTED] (CP 14)		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
LCHI-8: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
LCHI-8 is located just South of the intersection at [REDACTED] at [REDACTED] Ramp, ~29.3 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				

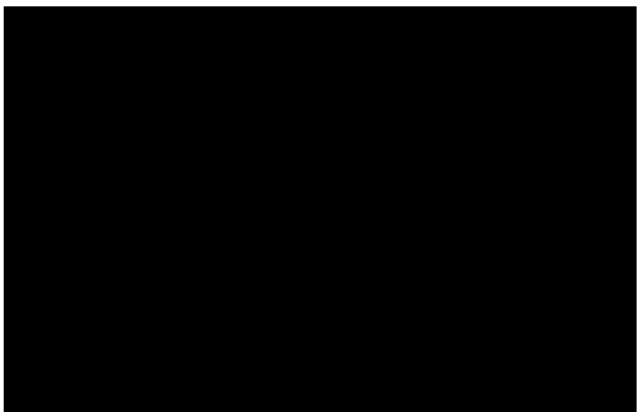
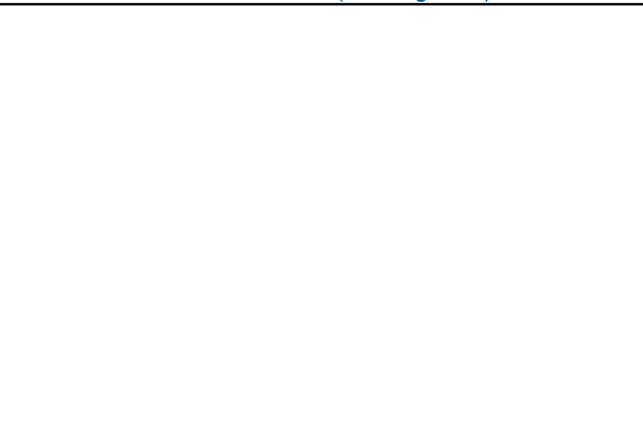
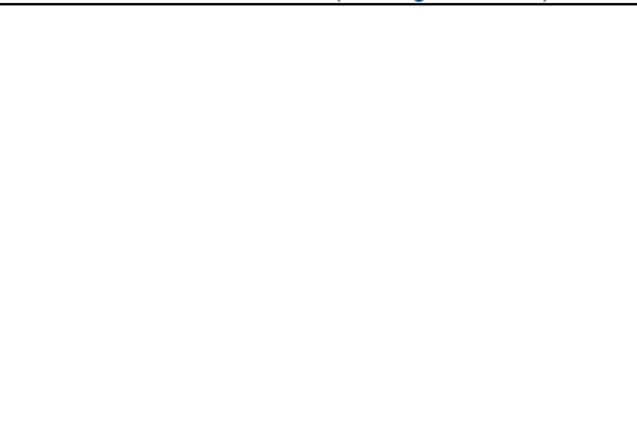
		Site Number: LCHI-9 (CP 1477- 25.7) Site Name: [REDACTED]	
		Division: Les Cheneaux Islands Division	
SITE INFORMATION			
Type of Site: Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Very shallow along the shoreline depending on water level. Use caution during icy and high wind conditions.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED] Land Use: Recreational
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~25.7 Miles)		Nearest Boat Ramp & Distance: Woodland Dr Boat Ramp ~2.75 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock	Bank Slope: Slight	Bank Height: ~1'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: North Shoreline Lake Huron
Communication Requirements/Availability: Inadequate cellular coverage. Cellular service is spotty.			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

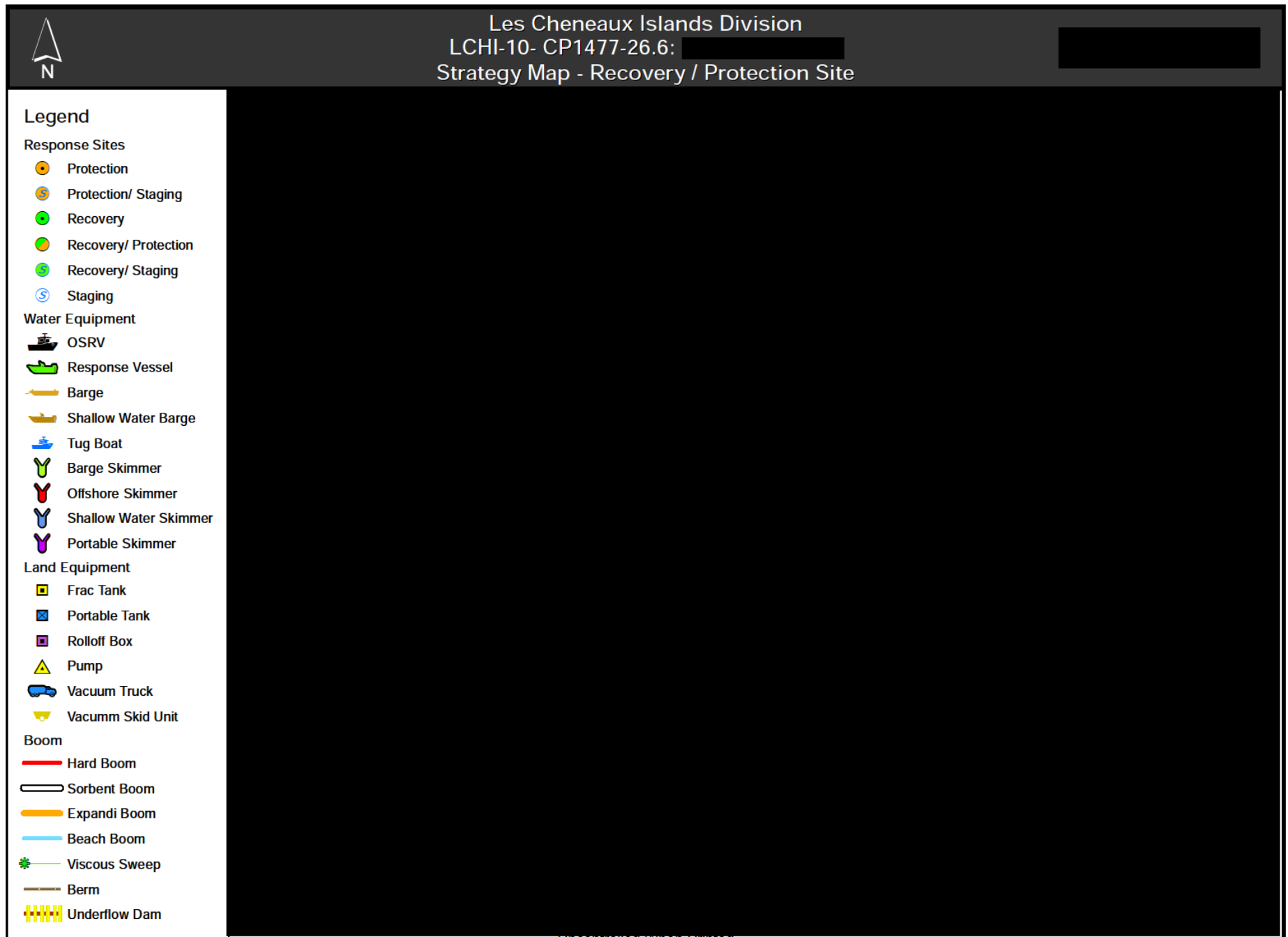
		Site Number: LCHI-9 (CP 1477- 25.7) Site Name: [REDACTED] Division: Les Cheneaux Islands Division	
SITE PHOTOGRAPHS			
			
1. Entrance to [REDACTED] (Looking North)		2. Entrance to [REDACTED] (Looking North)	
			
3.		4.	
RESPONSE INFORMATION			
Deployment Strategy: Protection	High Water: Booming	Low Water: Booming	
Boom Required: 800' HB	Recovery Method: N/A	Tank Truck Access: No	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: LCHI-9: [REDACTED] (CP 1477-25.7)		
Approved By Signature:					
Assignments					
1.) Deploy 800' of hard boom across the South end of the [REDACTED] as shown on the associated strategy map.					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
LCHI-9: [REDACTED] (CP 14	Boom	Hard Boom	800 feet	18 inch(es)	
LCHI-9: [REDACTED] (CP 14	Boom Accessories	Anchor Stakes	8 each		
LCHI-9: [REDACTED] (CP 14	Boom Accessories	Boom Anchors	14 each	40 pound(s)	
LCHI-9: [REDACTED] (CP 14	Manpower: Operator	Boat Operator	2 each		
LCHI-9: [REDACTED] (CP 14	Manpower: Responder	Responder	6 each		
LCHI-9: [REDACTED] (CP 14	Vessel	Jon Boat	2 each	14 feet	
Tactical Objective					
Prevent spilled material from entering [REDACTED] Manage a coordinated response effort.					
Location of Work					
LCHI-9 is located at the South end of the [REDACTED] ~25.7 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					
ICS 204 - Assignment List		Printed: 11/3/2012 01:43		Page 1 of 1	
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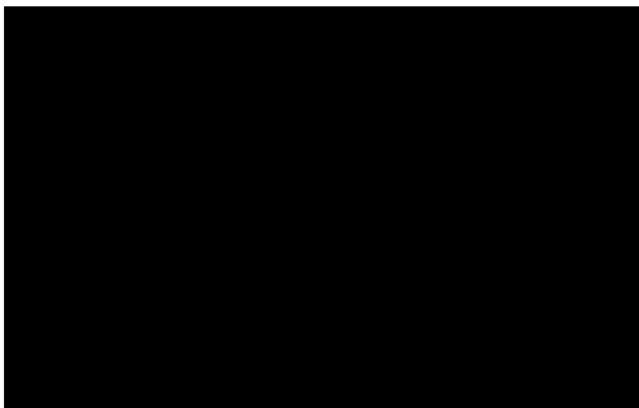
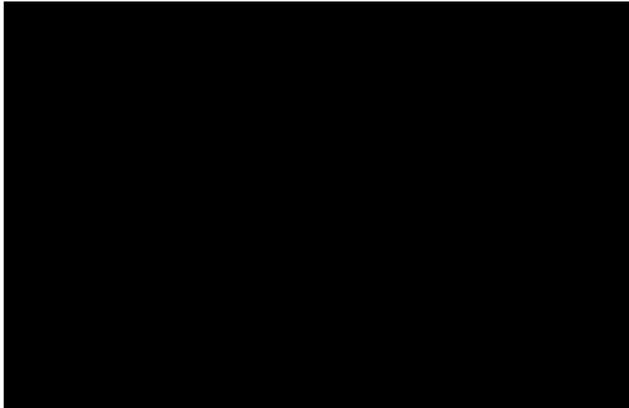
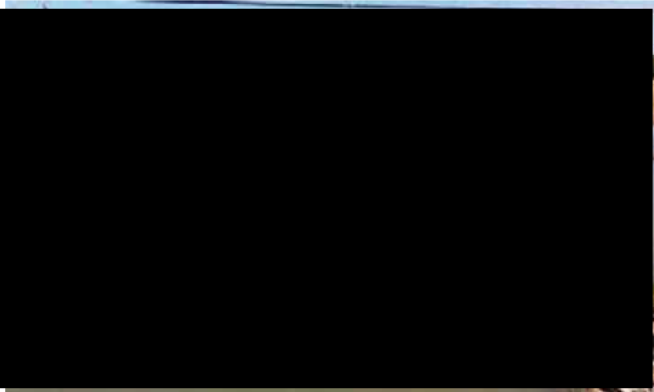
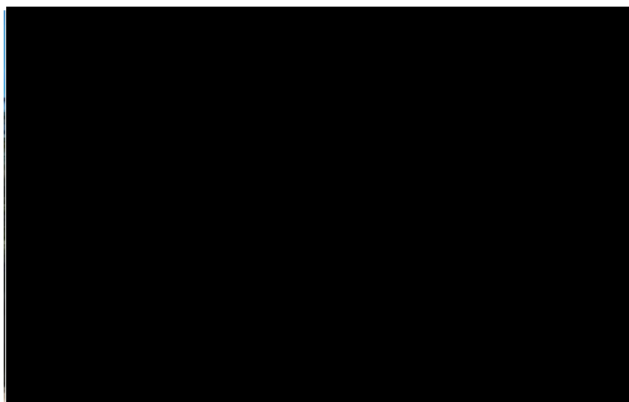
		Site Number: LCHI-10 (CP 1477- 26.6)	
		Site Name: [REDACTED]	
Division: Les Cheneaux Islands Division			
SITE INFORMATION			
Type of Site: Recovery/Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. Shoreline is very shallow. Use caution during icy and windy conditions.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~26.6 Miles)		Nearest Boat Ramp & Distance: Clark Township Boat Ramp ~4.5 Miles	
WATERWAY INFORMATION			
Type of Waterway: Lake	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rock/Sand	Bank Slope: Slight	Bank Height: ~3'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: North Shoreline Lake Huron
Communication Requirements/Availability: Inadequate cellular coverage. Cellular service is spotty.			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

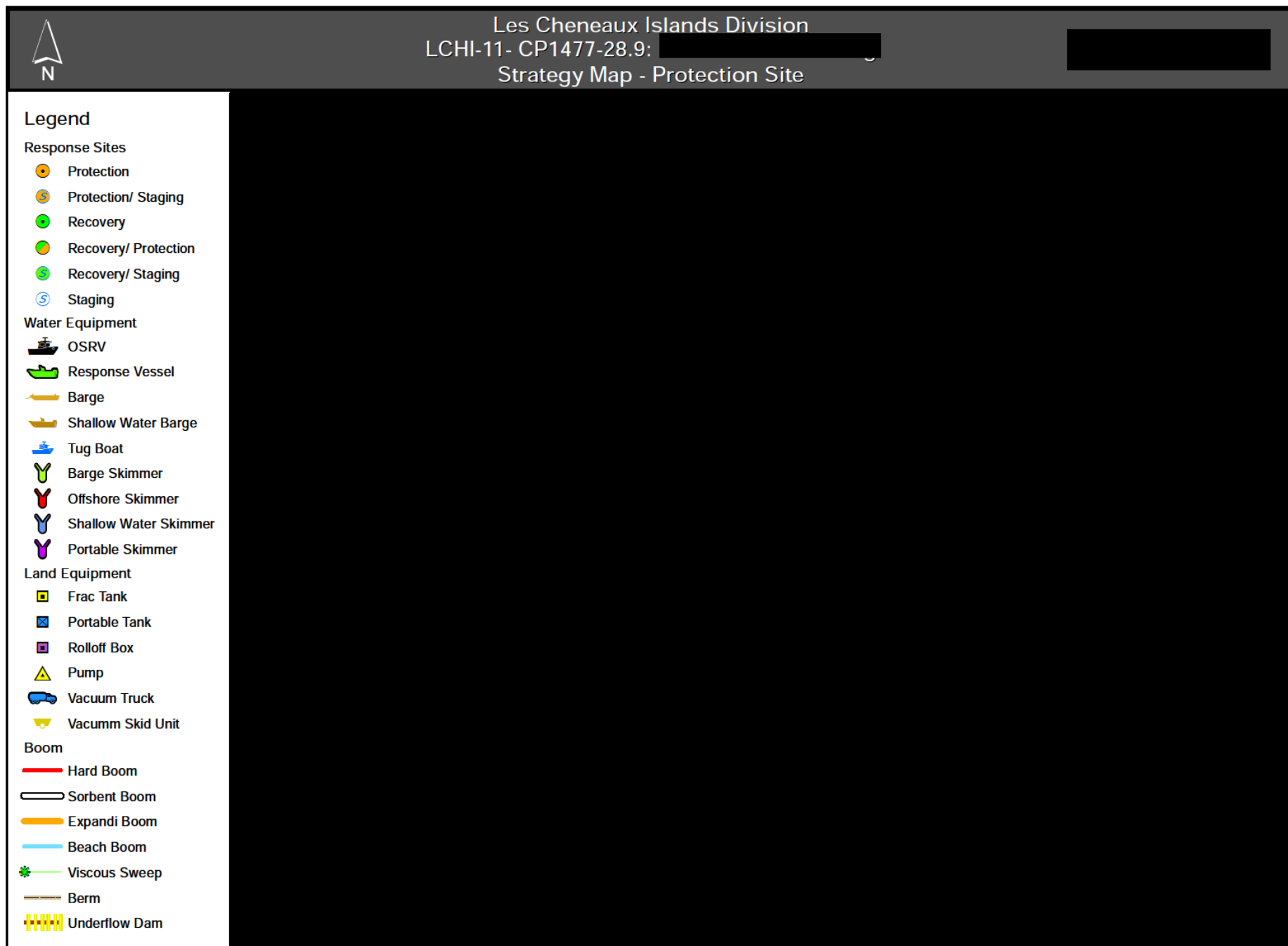
		Site Number: LCHI-10 (CP 1477- 26.6) Site Name: [REDACTED] Division: Les Cheneaux Islands Division
SITE PHOTOGRAPHS		
		
1. Collection Area Shoreline (Looking East)		2. Collection Area Shoreline (Looking Southeast)
		
3.		4.
RESPONSE INFORMATION		
Deployment Strategy: Recovery/Protection	High Water: Booming	Low Water: Booming
Boom Required: 2000' HB, 1000' VS	Recovery Method: Skimmer	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: LCHI-10: [REDACTED] (CP 1477-26.6)		
Approved By Signature:				
Assignments				
1.) Deploy 1000' of viscous sweep on the far western side of [REDACTED] as shown on the associated strategy map. 2.) Deploy 2000' of hard boom off of the northern tip of the viscous sweep stated in #1 outward at an angle dependent on current speed. 3.) Deploy a shallow water skimmer and response vessel to recover product to the extent possible.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
LCHI-10: [REDACTED]	Boom	Hard Boom	2000 feet	10 inch(es)
LCHI-10: [REDACTED]	Boom Accessories	Anchor Stakes	14 each	
LCHI-10: [REDACTED]	Boom Accessories	Boom Anchors	40 each	40 pound(s)
LCHI-10: [REDACTED]	Manpower: Operator	Boat Operator	3 each	
LCHI-10: [REDACTED]	Manpower: Responder	Responder	9 each	
LCHI-10: [REDACTED]	Skimmer	Shallow Water Skimmer	1 each	
LCHI-10: [REDACTED]	Vessel	Jon Boat	2 each	14 feet
LCHI-10: [REDACTED]	Vessel	Response Vessel	1 each	20 feet
LCHI-10: [REDACTED]	Viscous Sweep	Viscous Sweep	1000 feet	
Tactical Objective				
Prevent spilled material from entering [REDACTED] Recover product to extent possible. Manage a coordinated response effort.				
Location of Work				
LCHI-10 is located at the southern most point of [REDACTED] 26.6 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/2/2012 09:17	Page 1 of 1	© 1997-2012 dbSoft, Inc.

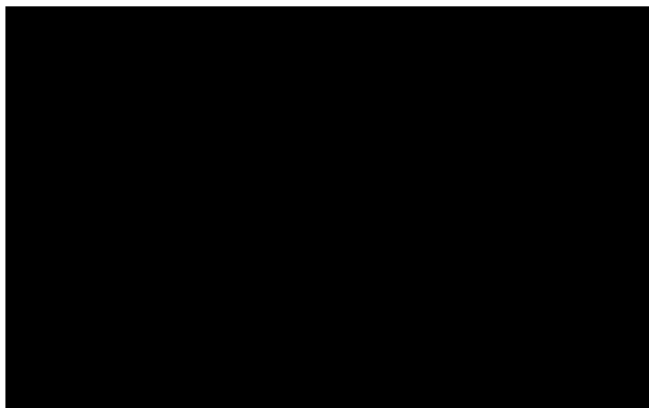
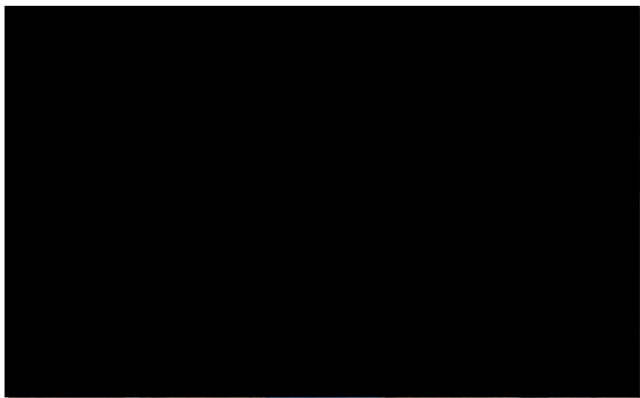
		Site Number: LCHI-11 (CP 1477- 28.9)	
		Site Name: [REDACTED]	
Division: Les Cheneaux Islands Division			
SITE INFORMATION			
Type of Site: Protection	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution while boating due to rocks. May be inaccessible during low water by boat. Accessible by land but shoreline is steep and rocky.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~28.9 Miles)		Nearest Boat Ramp & Distance: Clark Township Boat Ramp ~2.25 Miles	
WATERWAY INFORMATION			
Type of Waterway: Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: 150' High: 250'
Flow Impediments (e.g. dams, locks, debris) N/A		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Dirt/Sand	Bank Slope: Medium	Bank Height: ~3'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat, Road	Road Type: Secondary Highway	Road Surface: Paved	Access Location: East Shoreline Cedarville Bay/ [REDACTED]
Communication Requirements/Availability: Inadequate cellular coverage. Cellular service is spotty.			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/16/2012

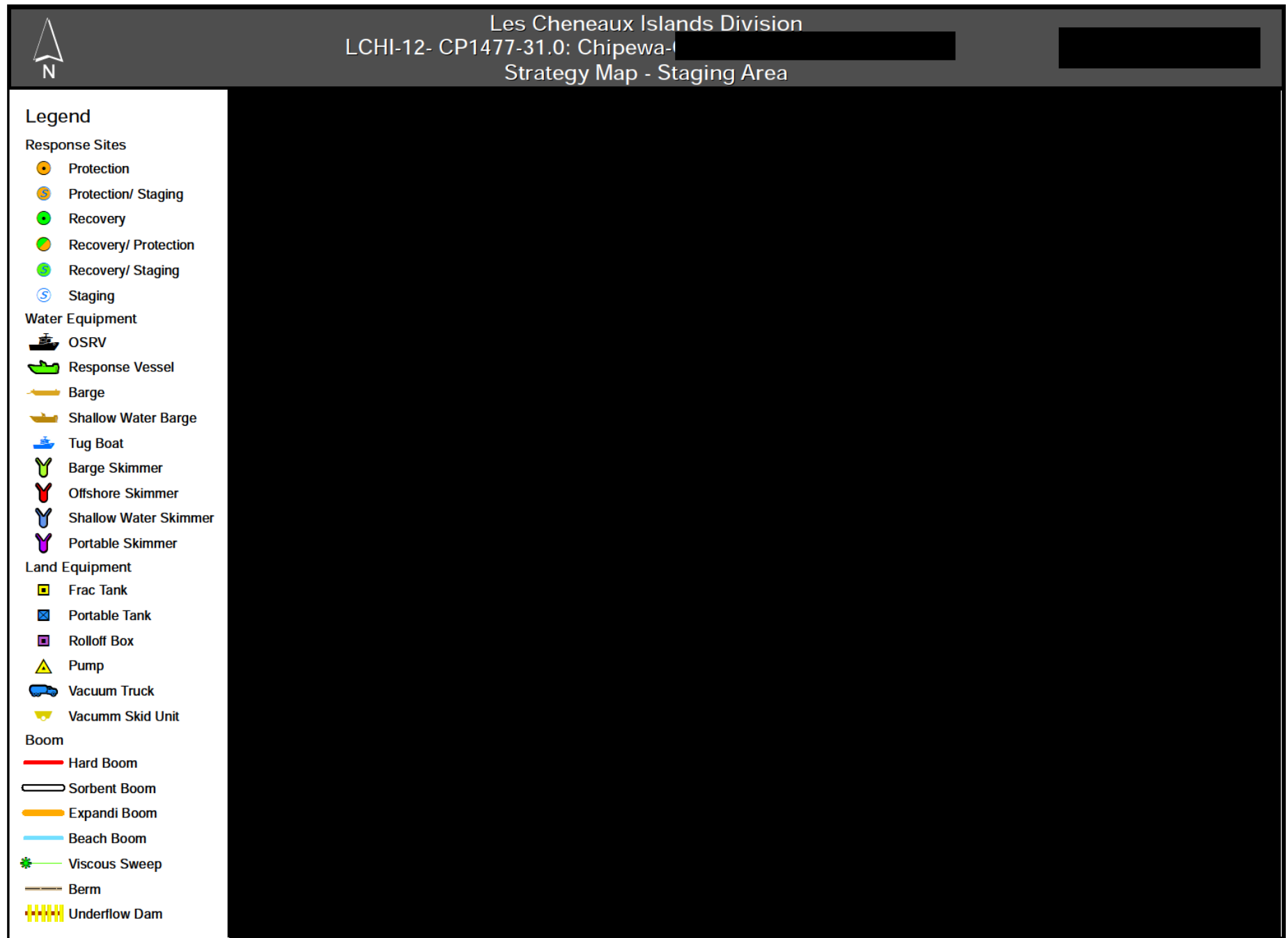
		Site Number: LCHI-11 (CP 1477- 28.9) Site Name: [REDACTED] Division: Les Cheneaux Islands Division	
SITE PHOTOGRAPHS			
			
1. Bridge Crossing (Looking Northeast)		2. Waterway (Looking Northwest)	
			
3. Waterway (Looking Southeast)		4. Bridge Crossing (Looking Northeast)	
RESPONSE INFORMATION			
Deployment Strategy: Protection	High Water: Booming	Low Water: Booming	
Boom Required: 500' HB	Recovery Method: N/A	Tank Truck Access: Yes	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: LCHI-11: [REDACTED] CP 1477-2		
Approved By Signature:				
Assignments				
1.) Deploy 300' of hard boom on the west side of the bridge crossing, using an exclusion booming technique as shown on the associated strategy map. 2.) Deploy 200' of hard boom on the east side of the bridge using an exclusion booming technique.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
LCHI-11: [REDACTED]	Boom	Hard Boom	500 feet	18 inch(es)
LCHI-11: [REDACTED]	Boom Accessories	Boom Anchors	10 each	40 pound(s)
LCHI-11: [REDACTED]	Boom Accessories	Anchor Stakes	16 each	
LCHI-11: [REDACTED]	Manpower: Operator	Boat Operator	1 each	
LCHI-11: [REDACTED]	Manpower: Responder	Responder	2 each	
LCHI-11: [REDACTED]	Vessel	Jon Boat	1 each	14 feet
Tactical Objective				
Prevent spilled material from impacting the bridge on [REDACTED] Manage a coordinated response effort.				
Location of Work				
LCHI-11 is located Southeast of the intersection of [REDACTED] ~28.9 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:44	Page 1 of 1	© 1997-2012 dbSoft, Inc.

		Site Number: LCHI-12 (CP 1477- 31.0)	
		Site Name: [REDACTED]	
Division: Les Cheneaux Islands Division			
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Use caution with north winds, may become shallow and not usable. Indian Reservation Property. [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Mackinac	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: N/A		Staging Area Size: 50' X 150'	
Nearest Pipeline Crossing & Distance: Line 5 (~31.0 Miles)		Nearest Boat Ramp & Distance: [REDACTED] Boat Ramp ~ At Site	
WATERWAY INFORMATION			
Type of Waterway: Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: 1800' High: 1900'
Flow Impediments (e.g. dams, locks, debris) Pier, Boat Slips		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter, Winds may cause rough waters			
SHORELINE CHARACTERISTICS			
Shoreline Type: Sand/Rock/ Grass	Bank Slope: Medium	Bank Height: ~3'	Existing Facilities: Boat Ramp
ACCESS INFORMATION			
Type of Access: Boat, Road	Road Type: Light Duty	Road Surface: Gravel	Access Location: West Shoreline McKay Bay
Communication Requirements/Availability: Inadequate cellular coverage. Cellular service is spotty.			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/14/2012

		Site Number: LCHI-12 (CP 1477- 31.0) Site Name: [REDACTED] Division: Les Cheneaux Islands Division
SITE PHOTOGRAPHS		
		
1. Boat Ramp (Looking East)		2. Parking/Staging Area (Looking East)
		
3. Boat Ramp Sign (Looking North)		4.
RESPONSE INFORMATION		
Deployment Strategy: Staging	High Water: N/A	Low Water: N/A
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: LCHI-12: [REDACTED]		(CP1
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
LCHI-12: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Establish site as a staging area. Manage a coordinated response effort.				
Location of Work				
LCHI-12 is located on [REDACTED] just North of the intersection at [REDACTED] at the [REDACTED] ~31.0 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				

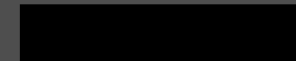


*Straits of Mackinac
Tactical Response Plan*

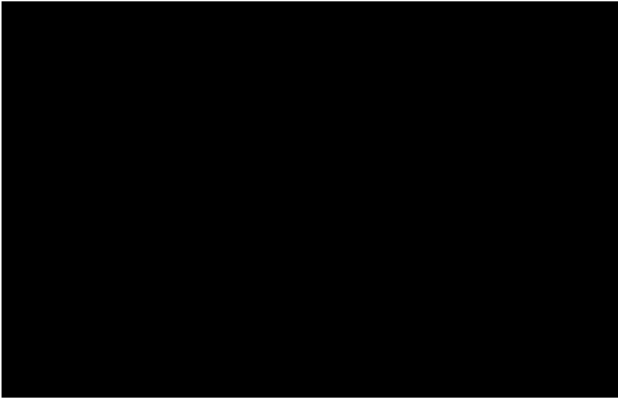
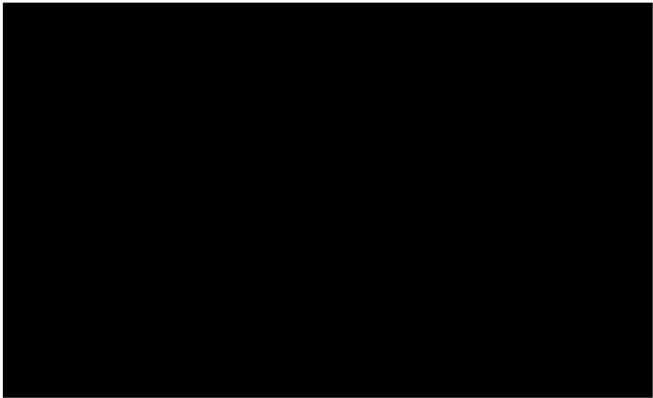
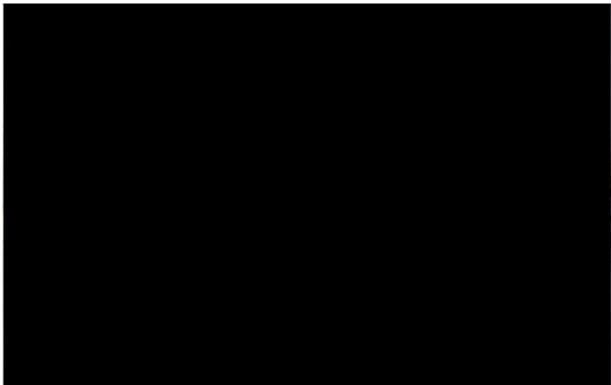
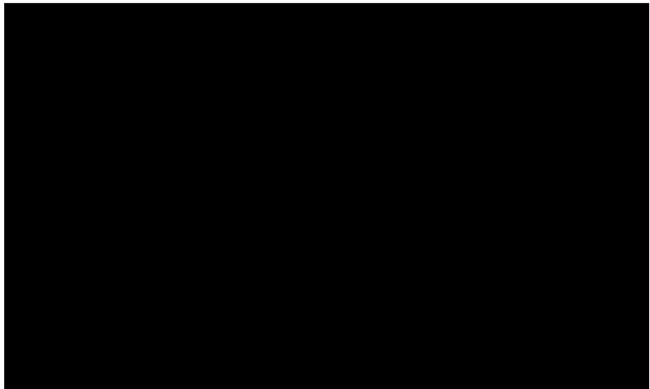
Duncan Bay Division				
Site ID	Name	Drainage System	Type of Site	Distance From Source
DNBY-1		Cheboygan River	Staging	18.9 miles
DNBY-2		Duncan Bay/ Lake Huron	Staging	19.5 miles
DNBY-3		Lake Huron	Protection	18.6 miles
DNBY-4		Duncan Bay/ Lake Huron	Recovery/ Protection	19.2 miles
DNBY-5		Duncan Bay/ Lake Huron	Protection	20.5 miles
Grey highlight = potential staging area				

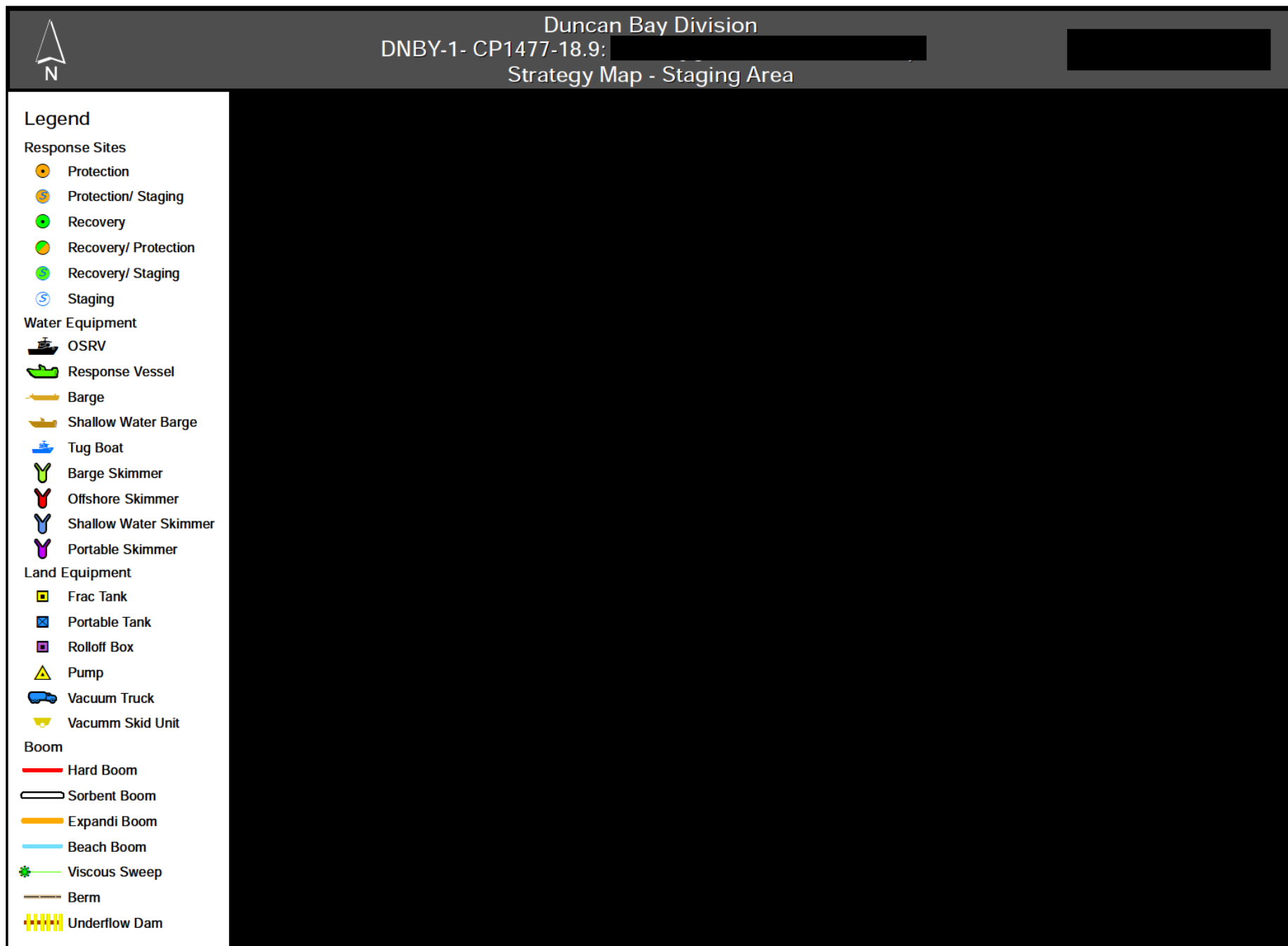


Straits of Mackinac Response Plan
Duncan Bay Division



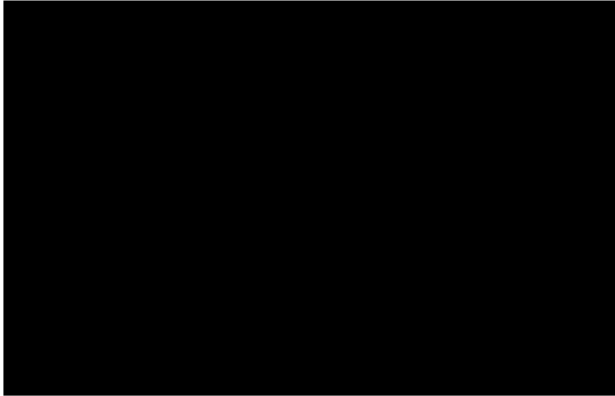
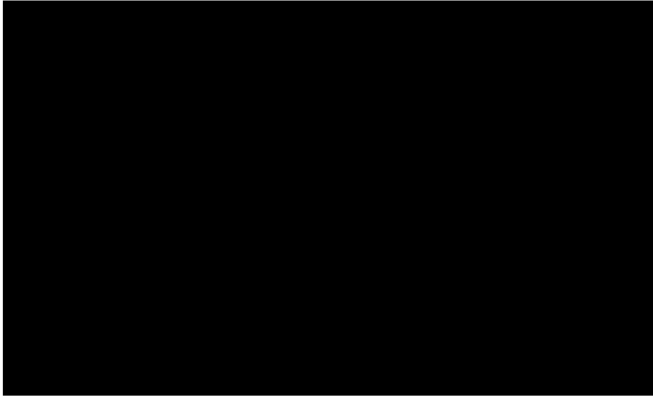
		Site Number: DNBY-1 (CP 1477-18.9)	
		Site Name: [REDACTED]	
Division: Duncan Bay			
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: #294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: [REDACTED] Boat Ramp. Boat launch fee \$5.00. No wake zone in effect in Cheboygan River. Just west of Cheboygan County Marina (fuel and boat docks).			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Cheboygan	Latitude: [REDACTED]	Longitude: [REDACTED]
Nearby Sensitivities: N/A		Staging Area Size: 300' X 175'	
Nearest Pipeline Crossing & Distance: Line 5 (~18.9 Miles)		Nearest Boat Ramp & Distance: [REDACTED] Boat Ramp – At Site	
WATERWAY INFORMATION			
Type of Waterway: River	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: 350' High: 400'
Flow Impediments (e.g. dams, locks, debris): Boat Docks, Protection Barriers		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter			
SHORELINE CHARACTERISTICS			
Shoreline Type: Bulkhead	Bank Slope: Steep	Bank Height: ~10'	Existing Facilities: Boat Ramp, Boat Docks, Lighting, Water, Restrooms, Electricity
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Secondary Highway	Road Surface: Paved	Access Location: North Shoreline of Cheboygan River
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

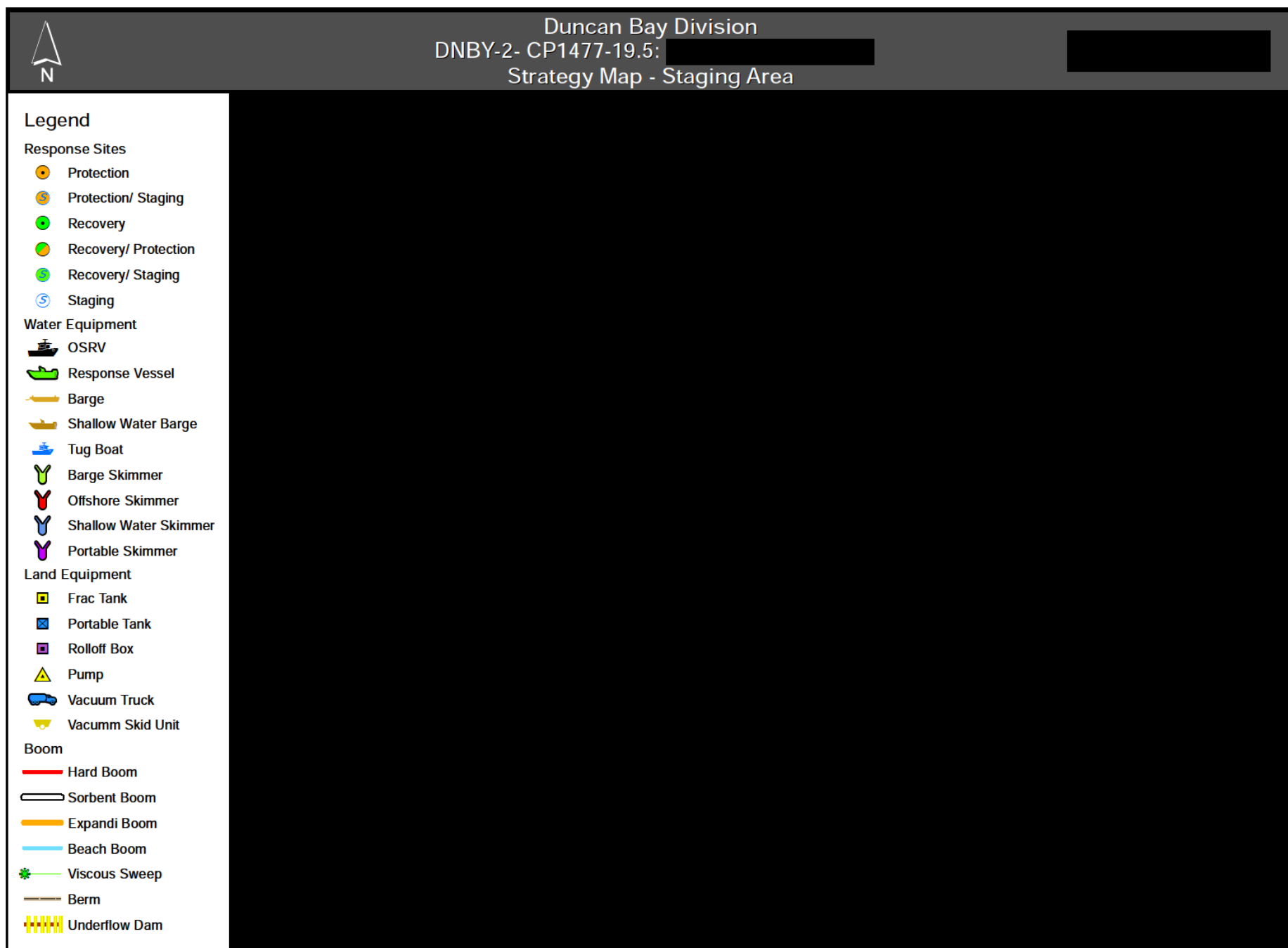
		Site Number: DNBY-1 (CP 1477-18.9) Site Name: [REDACTED] Division: Duncan Bay
SITE PHOTOGRAPHS		
		
1. Parking Area (Looking Northeast)		2. Boat Ramp (Looking Southwest)
		
3. [REDACTED] Marina (Looking Northeast)		4. Marina Rules (Looking Southwest)
RESPONSE INFORMATION		
Deployment Strategy: N/A	High Water: N/A	Low Water: N/A
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: DNBY-1: [REDACTED] (CI)		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
DNBY-1: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Manage a coordinated response effort. Establish site as a staging area.				
Location of Work				
DNBY-1 is located on N Huron Street along the [REDACTED] ~18.9 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:40	Page 1 of 1	© 1997-2012 dbSoft, Inc.

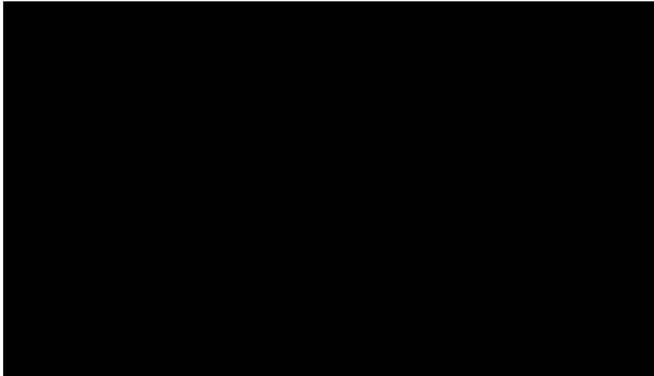
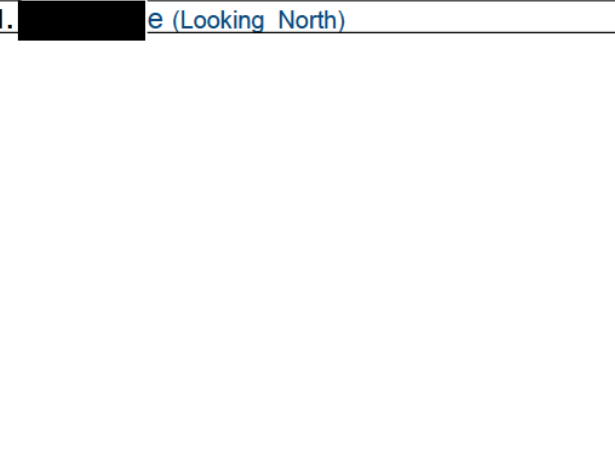
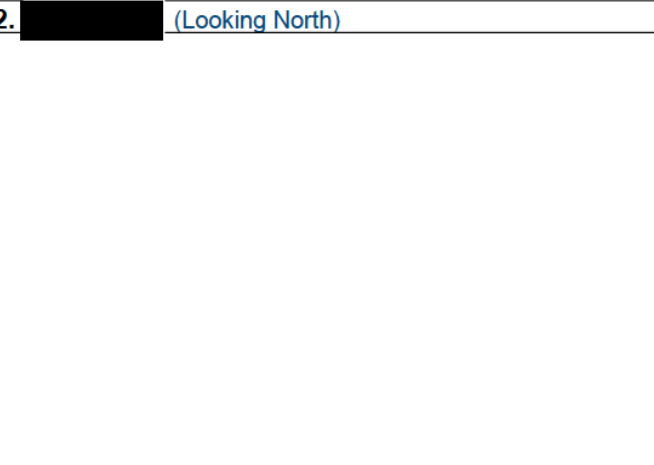
		Site Number: DNBY-2 (CP 1477-19.5)	
		Site Name: [REDACTED]	
Division: Duncan Bay			
SITE INFORMATION			
Type of Site: Staging	Line: 05	Route Sheet #: 294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Adequate staging area, boat slips available. [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Cheboygan	Latitude: [REDACTED]	Longitude: [REDACTED]
Nearby Sensitivities: N/A		Staging Area Size: 100' X 175'	
Nearest Pipeline Crossing & Distance: Line 5 (~19.5 Miles)		Nearest Boat Ramp & Distance: [REDACTED] Boat Ramp – At Site	
WATERWAY INFORMATION			
Type of Waterway: Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: 100' High: 100'
Flow Impediments (e.g. dams, locks, debris): Boat Docks		Navigable for Boats: Yes	
Seasonal Comments: Freezes during winter			
SHORELINE CHARACTERISTICS			
Shoreline Type: Bulkhead, Rock	Bank Slope: Steep	Bank Height: ~5'	Existing Facilities: Boat Ramp, Boat Docks, Lighting, Water, Restrooms, Electricity, Boat Sewage Dump
ACCESS INFORMATION			
Type of Access: Road, Boat	Road Type: Secondary Highway	Road Surface: Paved/Gravel	Access Location: West shoreline of Duncan Bay
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

	Site Number: DNB-2 (CP 1477-19.5) Site Name: [REDACTED] Division: Duncan Bay	
SITE PHOTOGRAPHS		
		
1. [REDACTED] Entrance (Looking West)	2. [REDACTED] Boat Slips (Looking South)	
3.	4.	
RESPONSE INFORMATION		
Deployment Strategy: N/A	High Water: N/A	Low Water: N/A
Boom Required: N/A	Recovery Method: N/A	Tank Truck Access: Yes
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: DNB-2: [REDACTED] (CP 1477-19.		
Approved By Signature:				
Assignments				
1.) Establish site as a staging area. 2.) Maintain site integrity over the course of the response. 3.) Manage check-in and check-out of resources.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
DNB-2: [REDACTED]	Security Guard	Security Guard	2 each	
Tactical Objective				
Manage a coordinated response effort. Establish site as a staging area.				
Location of Work				
DNB-2 is located at the intersection of [REDACTED] just off of [REDACTED] 19.5 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
ICS 204 - Assignment List		Printed: 11/3/2012 01:40	Page 1 of 1	© 1997-2012 dbSoft, Inc.

		Site Number: DNB-3 (CP 1477-18.6)	
		Site Name: [REDACTED]	
		Division: Duncan Bay	
SITE INFORMATION			
Type of Site: Protection	Line: 05	Route Sheet #: 294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: [REDACTED] is still in operation.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Cheboygan	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Commercial			
Nearby Sensitivities: [REDACTED]		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~18.6 Miles)		Nearest Boat Ramp & Distance: Cheboygan Public Boat Ramp ~ 2.5 Miles	
WATERWAY INFORMATION			
Type of Waterway: Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Boat Docks		Navigable for Boats: Yes	
Seasonal Comments: Use caution for ice and freezing during winter conditions. Rough seas possible due to spring and summer winds.			
SHORELINE CHARACTERISTICS			
Shoreline Type: N/A	Bank Slope: N/A	Bank Height: N/A	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: Duncan Bay
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

		<u>Site Number:</u> DNB-3 (CP 1477-18.6) <u>Site Name:</u> [REDACTED] <u>Division:</u> Duncan Bay	
SITE PHOTOGRAPHS			
			
1. [REDACTED] e (Looking North)		2. [REDACTED] (Looking North)	
			
3.		4.	
RESPONSE INFORMATION			
Deployment Strategy: Protection	High Water: Booming	Low Water: Booming	
Boom Required: 300' HB	Recovery Method: N/A	Tank Truck Access: No	
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours			
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.			



ICS 204 - Assignment List					
Incident:			Branch:		
Period:			Division/Group:		
Prepared By Signature:			Task Force: DNBY-3: [REDACTED] (CP 1477-18.6)		
Approved By Signature:					
Assignments					
1.) Deploy 300' of boom around the [REDACTED] to prevent impact to the [REDACTED]					
Resources Required					
Area of Operation	Resource Type	Description	Quantity	Size	
DNBY-3: [REDACTED] (CP 1477-	Boat Operator	Boat Operator	2 each		
DNBY-3: [REDACTED] (CP 1477-	Boom	Hard Boom	300 feet	18 inch(es)	
DNBY-3: [REDACTED] (CP 1477-	Boom Accessories	Boom Anchors	6 each	40 pound(s)	
DNBY-3: [REDACTED] (CP 1477-	Manpower: Responder	Responder	4 each		
DNBY-3: [REDACTED] (CP 1477-	Vessel	Jon Boat	2 each	14 feet	
Tactical Objective					
Prevent spilled material from impacting the [REDACTED] at the associated site. Manage a coordinated response effort.					
Location of Work					
DNBY-3 is located on [REDACTED] and ~18.6 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]					

		Site Number: DNB4-4 (CP 1477-19.2)	
		Site Name: [REDACTED]	
Division: Duncan Bay			
SITE INFORMATION			
Type of Site: Recovery/Protection	Line: 05	Route Sheet #: 294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Shallow and rocky along the shoreline. This [REDACTED] may be accessible by ATV.			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Cheboygan	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: N/A		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~19.2 Miles)		Nearest Boat Ramp & Distance: Duncan Bay ~1 Mile	
WATERWAY INFORMATION			
Type of Waterway: Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Rocks		Navigable for Boats: Yes	
Seasonal Comments: Use caution for ice and freezing during winter conditions. Rough seas possible due to spring and summer winds.			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rocky	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: Duncan Bay
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

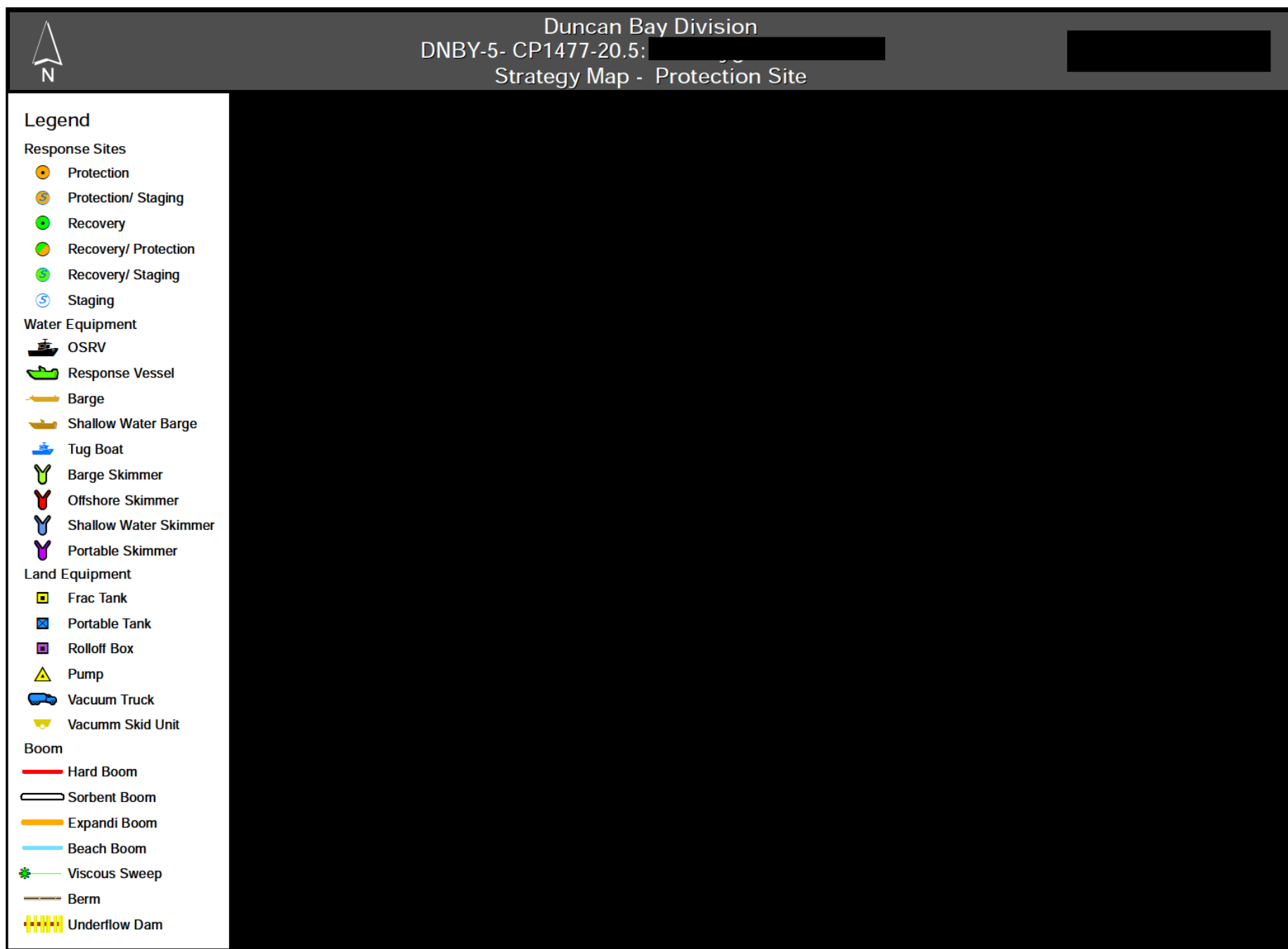
	<u>Site Number:</u> DNB4-4 (CP 1477-19.2) <u>Site Name:</u> [REDACTED] <u>Division:</u> Duncan Bay	
SITE PHOTOGRAPHS		
1. [REDACTED] (Looking Northeast)	2. [REDACTED] Collection Area (Looking East)	
3. [REDACTED] (Looking Southeast)	4. [REDACTED] Shoreline (Looking Southeast)	
RESPONSE INFORMATION		
Deployment Strategy: Protection/Recovery	High Water: Booming	Low Water: Booming
Boom Required: 1000' HB, 1400' SB	Recovery Method: Skimmer	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: DNB4-4: [REDACTED] (CP 1477-19.2)		
Approved By Signature:				
Assignments				
1.) From the tip of [REDACTED] deploy 1400' of sorbent boom along the shoreline toward the north. 2.) At the North and South end of the sorbent boom stated in #1, deploy 500' of boom outward into the lake to create collection areas as shown on the associated strategy map. 3.) Deploy shallow water skimmer and response vessel in the collection area to recover product to the extent possible.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
DNB4-4: [REDACTED]	Boom	Hard Boom	1000 feet	18 inch(es)
DNB4-4: [REDACTED]	Boom Accessories	Anchor Stakes	20 each	
DNB4-4: [REDACTED]	Boom Accessories	Boom Anchors	10 each	40 pound(s)
DNB4-4: [REDACTED]	Manpower: Operator	Boat Operator	3 each	
DNB4-4: [REDACTED]	Manpower: Responder	Responder	10 each	
DNB4-4: [REDACTED]	Manpower: Supervisor	Supervisor	1 each	
DNB4-4: [REDACTED]	Skimmer	Shallow Water Skimmer	1 each	
DNB4-4: [REDACTED]	Sorbent: Boom	Sorbent: Boom	1400 feet	8 inch(es)
DNB4-4: [REDACTED]	Vessel	Jon Boat	2 each	14 feet
DNB4-4: [REDACTED]	Vessel	Response Vessel	1 each	20 feet
Tactical Objective				
Prevent spilled material from impacting the shoreline at [REDACTED] Manage a coordinated response effort. Recover spilled material to the extent possible.				
Location of Work				
DNB4-4 is located on [REDACTED] and ~19.2 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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		Site Number: DNB-5 (CP 1477-20.5)	
		Site Name: [REDACTED]	
Division: Duncan Bay			
SITE INFORMATION			
Type of Site: Protection	Line: 05	Route Sheet #: 294-296	Pipeline Crossing MP: [REDACTED]
Site Description and Comments: Shallow and rocky along the shoreline. [REDACTED]			Valve Locations: Upstream: [REDACTED] Downstream: [REDACTED]
State: Michigan	County: Cheboygan	Latitude: [REDACTED]	Longitude: [REDACTED]
Land Use: Recreational			
Nearby Sensitivities: [REDACTED]		Staging Area Size: N/A	
Nearest Pipeline Crossing & Distance: Line 5 (~20.5 Miles)		Nearest Boat Ramp & Distance: Duncan Bay ~1 Mile	
WATERWAY INFORMATION			
Type of Waterway: Bay	Average Current Speed: Wind Driven	Tidally Influenced: Minimal	Waterway Width: Low: N/A High: N/A
Flow Impediments (e.g. dams, locks, debris) Rocks		Navigable for Boats: Yes	
Seasonal Comments: Use caution for ice and freezing during winter conditions. Rough seas possible due to spring and summer winds.			
SHORELINE CHARACTERISTICS			
Shoreline Type: Rocky	Bank Slope: Slight	Bank Height: ~2'	Existing Facilities: N/A
ACCESS INFORMATION			
Type of Access: Boat	Road Type: N/A	Road Surface: N/A	Access Location: Duncan Bay
Communication Requirements/Availability: Adequate cellular coverage			
FIELDWORK COLLECTION INFORMATION			
Data Collector Name(s): [REDACTED]			Date Collected: 5/15/2012

	<u>Site Number:</u> DNBY-5 (CP 1477-20.5) <u>Site Name:</u> [REDACTED] <u>Division:</u> Duncan Bay	
SITE PHOTOGRAPHS		
1. [REDACTED] (Looking Southeast)	2. [REDACTED] (Looking Southeast)	
3. [REDACTED] (Looking Southeast)	4. [REDACTED]	
RESPONSE INFORMATION		
Deployment Strategy: Protection	High Water: Sorbent Booming	Low Water: Sorbent Booming
Boom Required: 1000' SB, 1000' VS	Recovery Method: Debris	Tank Truck Access: No
Nearest ER Equipment Cache and Estimated Response Time: Marine Pollution Control ~4-6 Hours Bay West Environmental Services ~4-6 Hours		
Nearest Enbridge Facility & Distance: Escanaba, MI ~50 miles and ~3hrs.		



ICS 204 - Assignment List				
Incident:		Branch:		
Period:		Division/Group:		
Prepared By Signature:		Task Force: DNB-5: [REDACTED] (CP 1477-		
Approved By Signature:				
Assignments				
1.) Deploy 1000' of viscous sweep along the [REDACTED] 2.) Deploy 1000' of sorbent boom on the inland side of the viscous sweep as shown on the associated strategy map.				
Resources Required				
Area of Operation	Resource Type	Description	Quantity	Size
DNB-5: [REDACTED]	Boom Accessories	Anchor Stakes	20 each	
DNB-5: [REDACTED]	Manpower: Responder	Responder	4 each	
DNB-5: [REDACTED]	Sorbent: Boom	Sorbent: Boom	1000 feet	8 inch(es)
DNB-5: [REDACTED]	Viscous Sweep	Viscous Sweep	1000 feet	
Tactical Objective				
Prevent spilled material from impacting the shoreline at [REDACTED] Manage a coordinated response effort.				
Location of Work				
DNB-5 is located on [REDACTED] and ~20.5 miles from the pipeline crossing. Lat: [REDACTED] Long: [REDACTED]				
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*Straits of Mackinac
Tactical Response Plan*

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**Straits of Mackinac
Tactical Response Plan**

Northwest Straits Division Totals																		
Response Sites	Hard Boom (feet)	Sorbent Boom (feet)	Viscous Sweep (feet)	Boom Anchors	Anchor Stakes	Response Vessel	OSRV	Vessel Operator	Shallow Water Skimmer	Portable Skimmer	Vacuum Truck	Vacuum Truck Operator	Roll Off Box	Supervisor	Jon Boat	Responder	ATV	Security Guard
NWST-1: [REDACTED] Island (CP 1477-0.0)	1,800	9,400	0	24	100	2	0	14	2	0	0	0	0	0	10	30	0	2
NWST-2: [REDACTED] (CP 1477-0.0)	0	2,400	0	0	0	1	0	1	1	0	1	1	1	0	0	10	0	0
NWST-3: [REDACTED] (CP 1477-5.2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NWST-4: [REDACTED] (CP 1477-6.3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NWST-5: [REDACTED] (CP 1477-9.5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NWST-6: [REDACTED] (CP 1477-12.5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NWST-7: [REDACTED] (CP 1477-21.5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Division Totals	1,800	11,800	0	24	100	3	0	15	3	0	1	1	1	0	10	40	0	2



**Straits of Mackinac
Tactical Response Plan**

Northeast Straits Division Totals																		
Response Sites	Hard Boom (feet)	Sorbent Boom (feet)	Viscous Sweep (feet)	Boom Anchors	Anchor Stakes	Response Vessel	OSRV	Vessel Operator	Shallow Water Skimmer	Portable Skimmer	Vacuum Truck	Vacuum Truck Operator	Roll Off Box	Supervisor	Jon Boat	Responder	ATV	Security Guard
NEST-1: ██████████ (1477-1.7)	800	5,800	0	0	75	0	0	1	0	0	0	0	0	0	1	17	0	2
NEST-2: ██████████ (CP 1477-2.2)	600	3,400	3,400	12	70	2	0	6	2	0	0	0	0	0	4	20	0	2
NEST-3: ██████████ (CP 1477-5.2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
NEST-4: ██████████ ██████ (CP 1477-6.8)	0	1,600	1,600	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0
NEST-5: ██████████ (CP 1477-7.3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
NEST-6: ██████████ ██████ (CP 1477-8.1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
NEST-7: ██████████ ██████ (CP1477-8.1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
NEST-8: ██████████ (CP 1477-7.8)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
NEST-9: ██████████ (CP 1477-24.1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Division Totals	1,400	10,800	5,000	12	180	2	0	7	2	0	0	0	0	0	5	37	0	16



**Straits of Mackinac
Tactical Response Plan**

Southwest Straits Division Totals																		
Response Sites	Hard Boom (feet)	Sorbent Boom (feet)	Viscous Sweep (feet)	Boom Anchors	Anchor Stakes	Response Vessel	OSRV	Vessel Operator	Shallow Water Skimmer	Portable Skimmer	Vacuum Truck	Vacuum Truck Operator	Roll Off Box	Supervisor	Jon Boat	Responder	ATV	Security Guard
SWST-1: [REDACTED] (CP 1477-0.0)	700	2,400	2,400	15	50	1	0	3	1	0	0	0	1	0	2	10	0	2
SWST-2: [REDACTED] (CP 1477-5.0)	0	4,000	4,000	0	80	0	0	0	0	0	0	0	0	0	0	10	3	2
SWST-3: [REDACTED] (CP 1477-6.9)	0	4,300	4,300	0	90	0	0	0	0	0	0	0	1	0	0	8	3	0
SWST-4: [REDACTED] (CP 1477-10.1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
SWST-5: [REDACTED] (CP 1477-10.8)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
SWST-6: [REDACTED] (CP 1477-9.9)	0	3,500	3,500	0	70	0	0	0	0	0	0	0	1	0	0	6	2	2
Division Totals	700	14,200	14,200	15	290	1	0	3	1	0	0	0	3	0	2	34	8	10



**Straits of Mackinac
Tactical Response Plan**

Southeast Straits Division Totals																		
Response Sites	Hard Boom (feet)	Sorbent Boom (feet)	Viscous Sweep (feet)	Boom Anchors	Anchor Stakes	Response Vessel	OSRV	Vessel Operator	Shallow Water Skimmer	Portable Skimmer	Vacuum Truck	Vacuum Truck Operator	Roll Off Box	Supervisor	Jon Boat	Responder	ATV	Security Guard
SEST-1: ██████████ (1477-1.9)	0	4,000	4,000	0	80	0	0	0	0	0	0	0	0	0	0	8	0	0
SEST-2: ██████████ (CP 1477-2.2)	600	2,400	2,400	12	55	1	0	3	1	0	0	0	0	0	2	8	0	2
SEST-3: ██████████ (CP 1477-2.8)	0	3,200	3,200	0	40	0	0	0	0	0	0	0	0	0	0	6	0	2
SEST-4: ██████████ (CP 1477-3.2)	600	0	0	12	4	0	0	1	0	0	0	0	0	0	1	4	0	2
SEST-5: ██████████ (CP 1477-3.5)	1,500	0	2,300	30	25	0	0	1	0	0	0	0	0	0	1	10	0	2
SEST-6: ██████████ (CP 1477-3.8)	0	0	3,400	0	34	0	0	0	0	0	0	0	0	0	0	5	2	2
SEST-7: ██████████ (CP1477-4.0)	0	150	150	0	4	0	0	0	0	0	0	0	1	0	0	2	0	2
SEST-8: ██████████ (CP 1477-5.7)	0	400	400	0	8	0	0	0	0	0	0	0	1	0	0	3	0	2
Division Totals	2,700	10,150	15,450	54	250	1	0	5	1	0	0	0	2	0	4	46	0	1



**Straits of Mackinac
Tactical Response Plan**

Mackinac and Bois Blanc Island Division Totals																		
Response Sites	Hard Boom (feet)	Sorbent Boom (feet)	Viscous Sweep (feet)	Boom Anchors	Anchor Stakes	Response Vessel	OSRV	Vessel Operator	Shallow Water Skimmer	Portable Skimmer	Vacuum Truck	Vacuum Truck Operator	Roll Off Box	Supervisor	Jon Boat	Responder	ATV	Security Guard
MBBI-1: ██████████ (CP 1477-9.5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
MBBI-2: ██████████ (CP 1477-9.3)	400	0	4,000	6	50	0	0	1	0	0	0	0	0	0	1	12	0	0
MBBI-3: ██████████ (CP 1477-10.5)	3,800	0	1,300	80	20	1	0	5	1	0	0	0	0	0	4	18	0	0
MBBI-4: ██████████ (CP 1477-9.8)	600	0	2,600	14	30	1	0	3	1	0	0	0	0	0	2	12	0	0
MBBI-5: ██████████ (CP 1477-10.3)	0	0	3,100	0	31	1	0	3	1	0	0	0	0	0	2	12	0	0
MBBI-6: ██████████ (CP 1477-11.7)	400	0	1,400	8	16	1	0	3	1	0	0	0	0	0	2	10	0	0
MBBI-7: ██████████ (CP 1477-11.6)	400	0	0	0	0	4	2	6	0	0	0	0	0	0	0	12	0	0
MBBI-8: ██████████ (CP 1477-11.7)	800	0	3,200	16	35	1	0	3	1	0	0	0	0	0	2	14	0	0
MBBI-9: ██████████ (CP 1477-12.4)	200	0	1,200	4	15	1	0	3	1	0	0	0	0	0	2	8	0	0
MBBI-10: ██████████ (CP 1477-17.3)	1,000	3,200	3,200	20	70	2	0	5	2	0	0	0	0	0	3	18	0	0
MBBI-11: ██████████ (CP 1477-25.6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
MBBI-12: ██████████ ██████ (CP1477-25.3)	500	4,000	0	10	45	0	0	3	0	0	0	0	0	0	3	15	0	0
Division Totals	8,100	7,200	20,000	158	312	12	2	35	8	0	0	0	0	0	21	131	0	4



**Straits of Mackinac
Tactical Response Plan**

Les Cheneaux Islands Division Totals

Response Sites	Hard Boom (feet)	Sorbent Boom (feet)	Viscous Sweep (feet)	Boom Anchors	Anchor Stakes	Response Vessel	OSRV	Vessel Operator	Shallow Water Skimmer	Portable Skimmer	Vacuum Truck	Vacuum Truck Operator	Roll Off Box	Supervisor	Jon Boat	Responder	ATV	Security Guard
LCHI-1: [REDACTED] (CP 1477-28.2)	1,000	0	1,700	20	20	1	0	3	1	0	0	0	0	0	2	10	0	0
LCHI-2: [REDACTED] (CP 1477-28.4)	1,400	0	1,000	20	20	3	1	6	1	0	0	0	0	0	2	16	0	0
LCHI-3: [REDACTED] (CP 1477-29.8)	400	0	0	0	10	0	0	1	0	0	0	0	0	0	1	3	0	0
LCHI-4: [REDACTED] (CP 1477-32.4)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
LCHI-5: [REDACTED] (CP 1477-33.7)	800	0	0	6	8	2	1	4	0	0	0	0	0	0	1	11	0	0
LCHI-6: [REDACTED] (CP 1477-36.5)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
LCHI-7: [REDACTED] (CP 1477-38.3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
LCHI-8: [REDACTED] (CP 1477-42.9)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
LCHI-9: [REDACTED] (CP 1477-34.0)	800	0	0	14	8	0	0	2	0	0	0	0	0	0	2	6	0	0
LCHI-10: [REDACTED] (CP 1477-36.5)	2,000	0	1,000	40	14	1	0	3	1	0	0	0	0	0	2	9	0	0
LCHI-11: [REDACTED] (CP 1477-40.8)	500	0	0	10	16	0	0	1	0	0	0	0	0	0	1	2	0	0
LCHI-12: [REDACTED] (CP 1477-43.9)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Division Totals	6,900	0	3,700	110	96	7	2	20	3	0	0	0	0	0	11	57	0	10

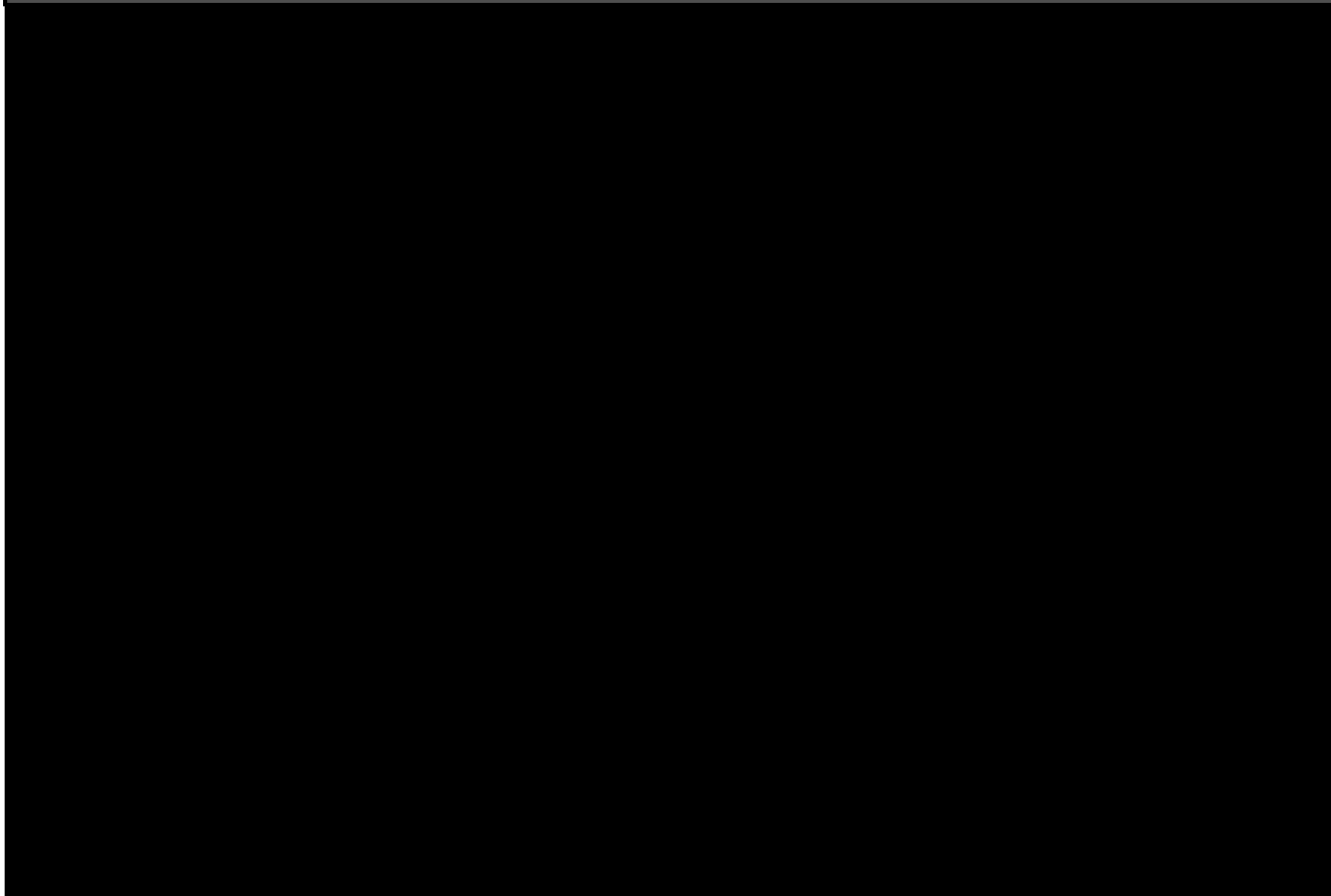


**Straits of Mackinac
Tactical Response Plan**

Duncan Bay Division Totals																		
Response Sites	Hard Boom (feet)	Sorbent Boom (feet)	Viscous Sweep (feet)	Boom Anchors	Anchor Stakes	Response Vessel	OSRV	Vessel Operator	Shallow Water Skimmer	Portable Skimmer	Vacuum Truck	Vacuum Truck Operator	Roll Off Box	Supervisor	Jon Boat	Responder	ATV	Security Guard
DNBY-1: [REDACTED] (CP1477-26.7)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
DNBY-2: [REDACTED] (CP 1477-27.6)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
DNBY-3: [REDACTED] (CP 1477-26.4)	300	0	0	6	0	0	0	2	0	0	0	0	0	0	2	4	0	0
DNBY-4: [REDACTED] (CP 1477-27.2)	1,000	1,400	0	0	30	1	0	3	1	0	0	0	0	1	2	10	0	0
DNBY-5: [REDACTED] (CP 1477-28.6)	0	1,000	1,000	0	20	0	0	0	0	0	0	0	0	0	0	4	0	0
Division Totals	1,300	2,400	1,000	6	50	1	0	5	1	0	0	0	0	1	4	18	0	4

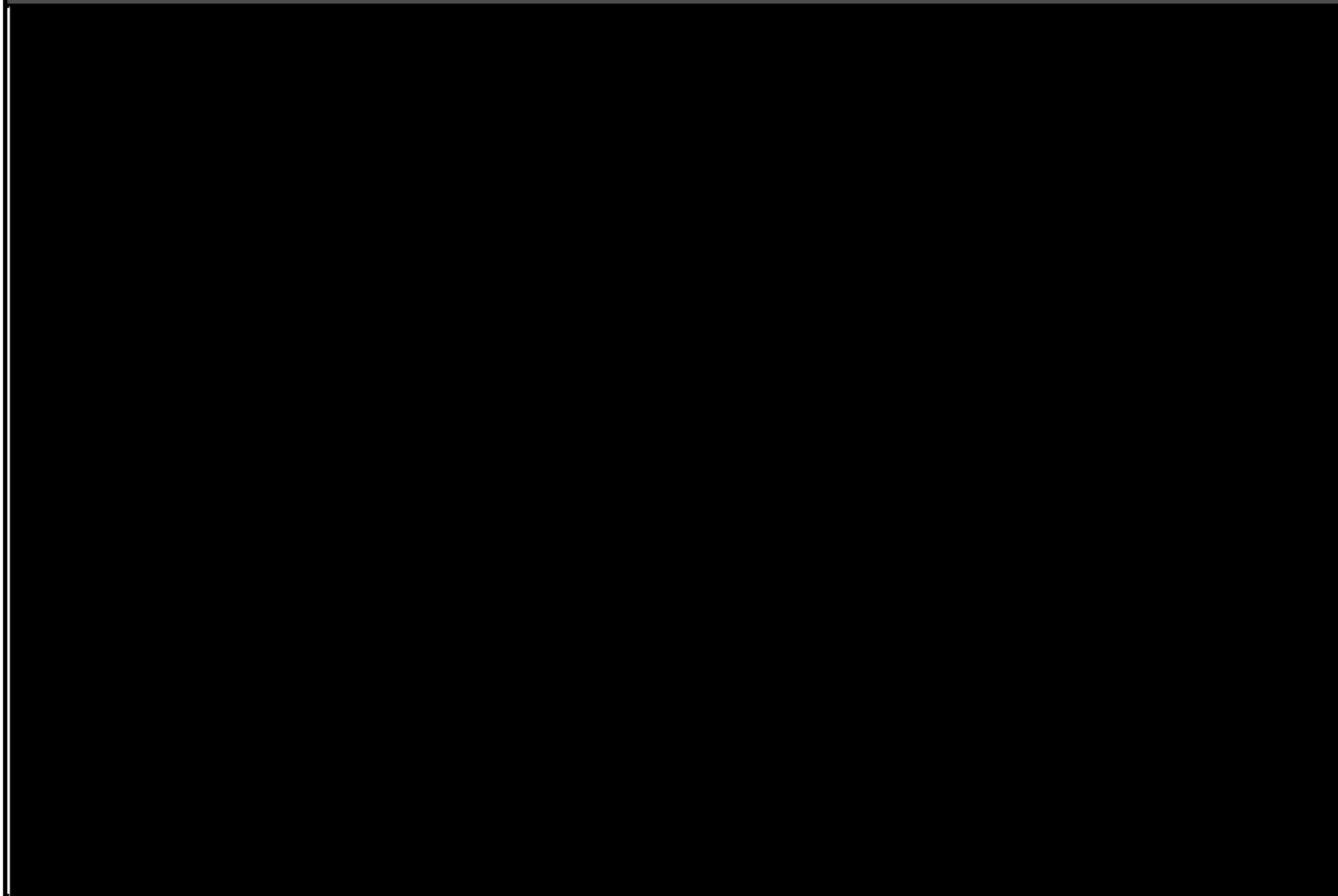


Northeast Straits Division
Staging Area Overview



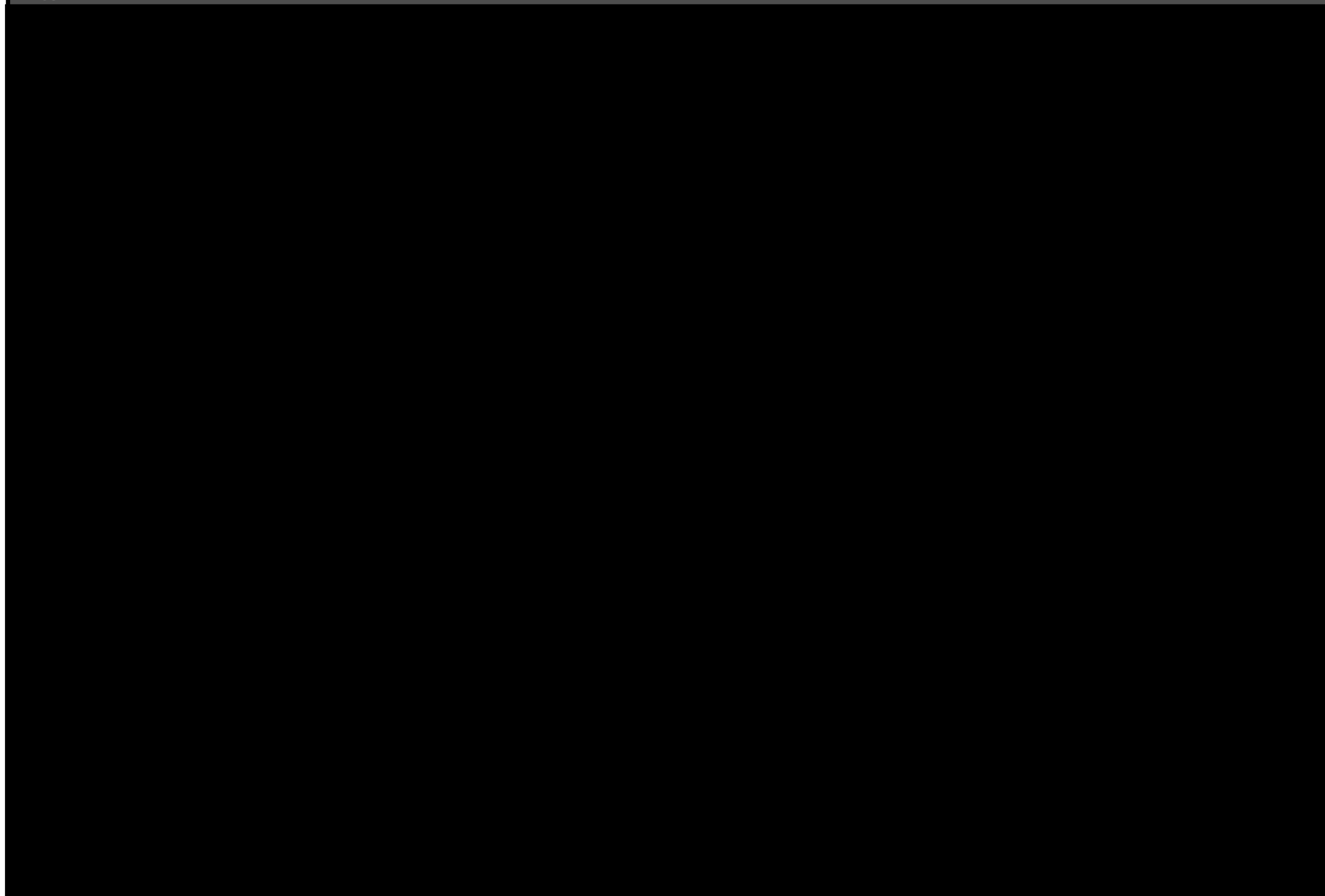


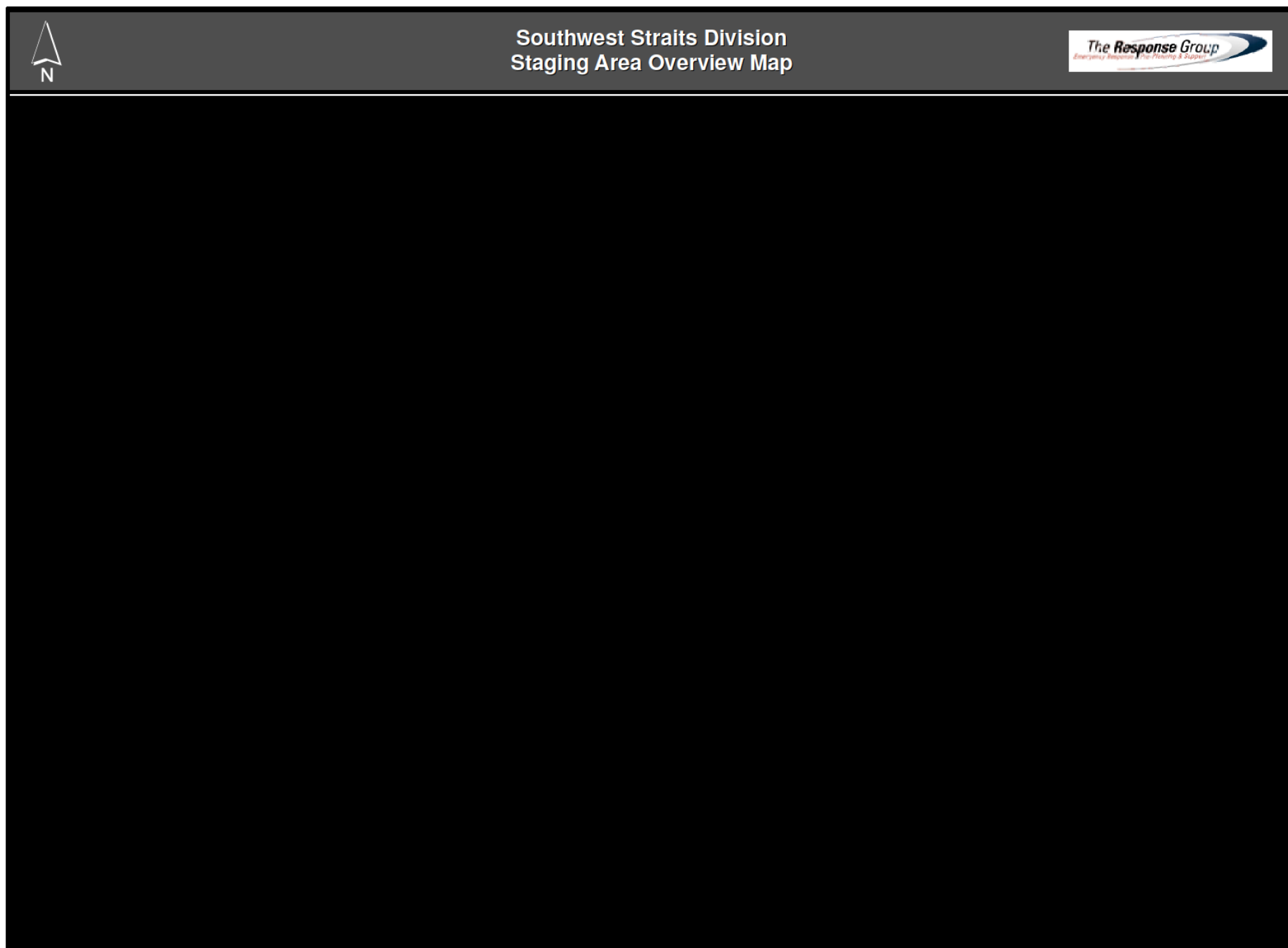
Northwest Straits Division
Staging Area Overview





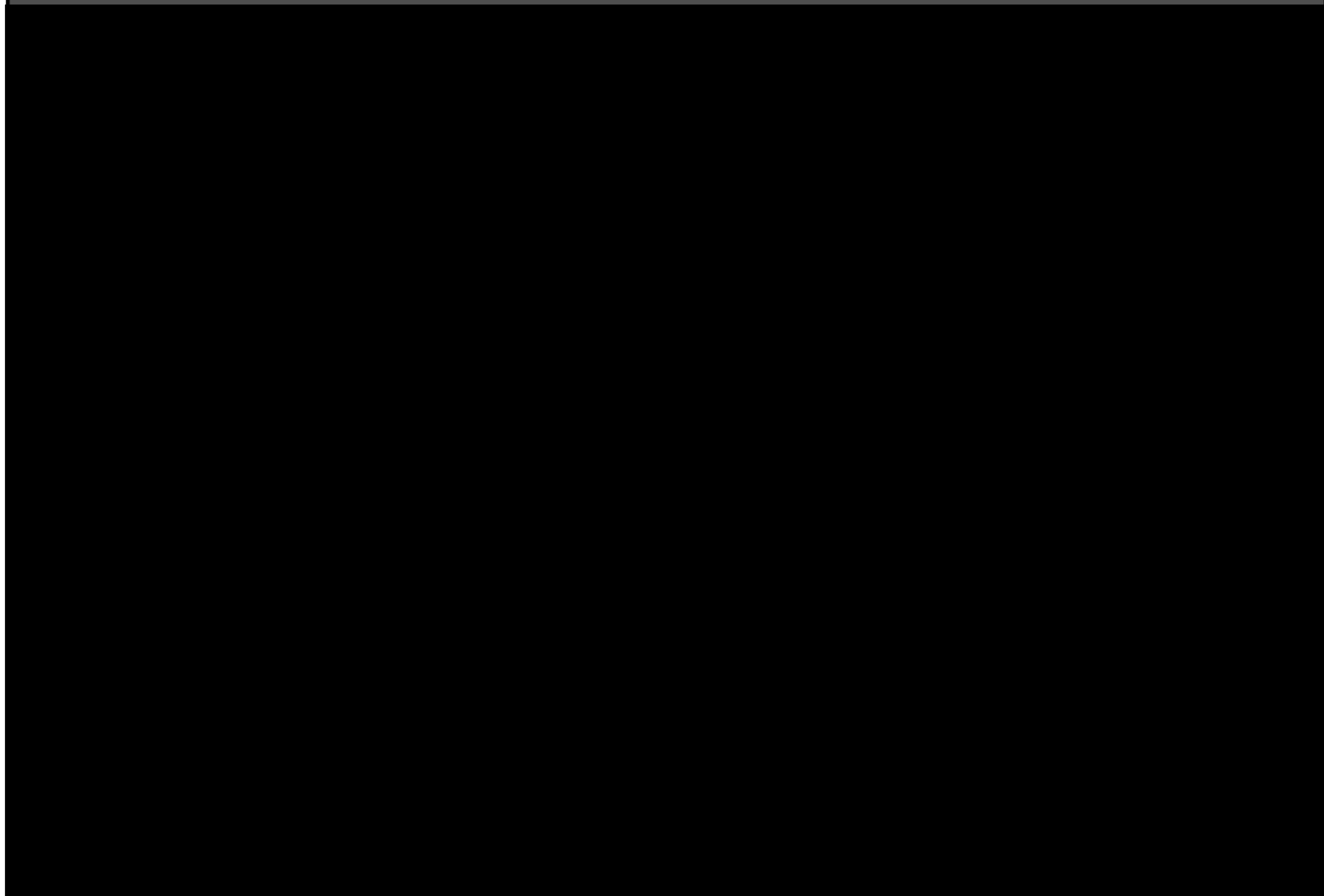
Northeast Straits Division
Staging Area Overview





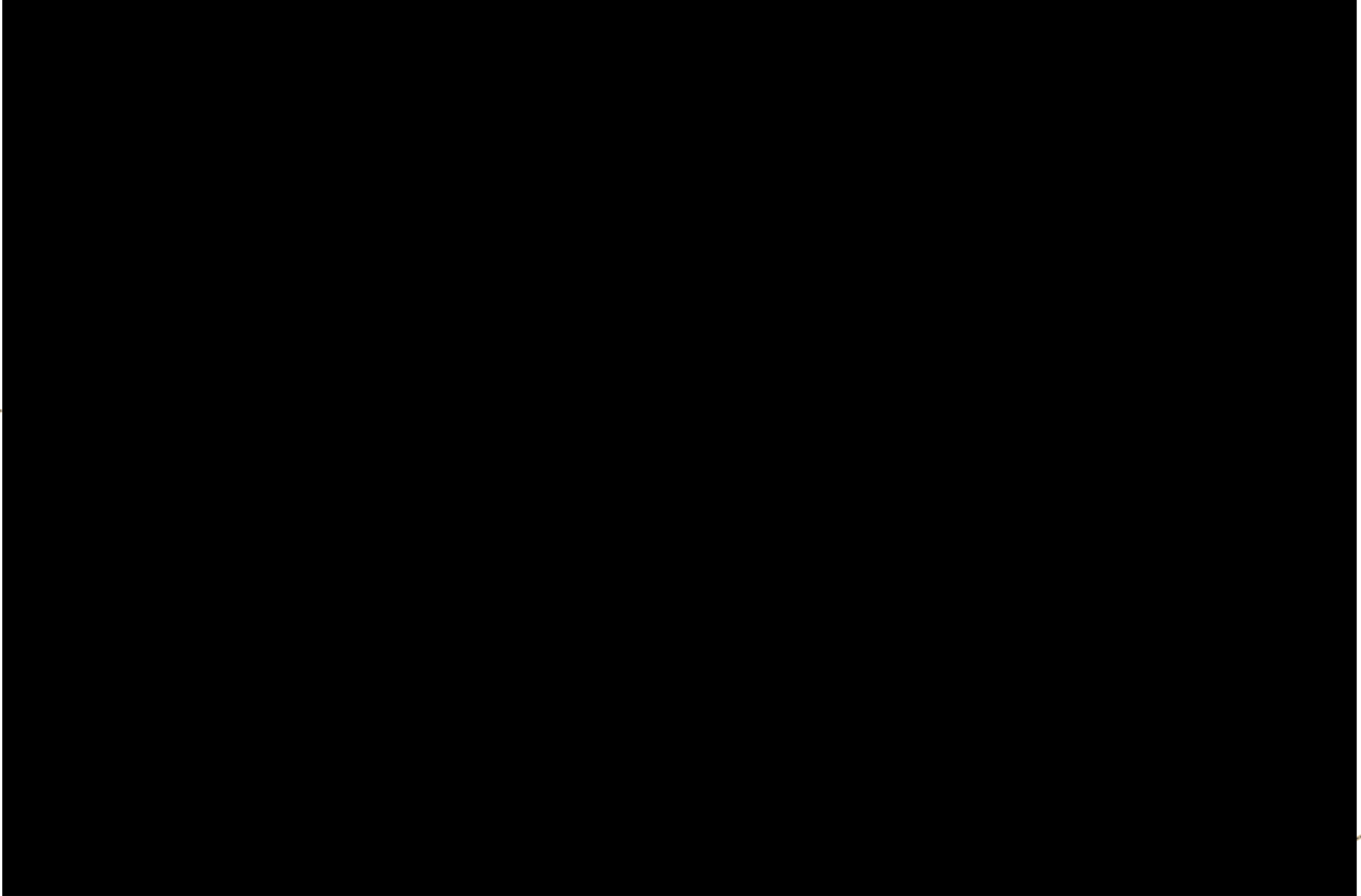


Southeast Straits Division
Staging Area Overview Map



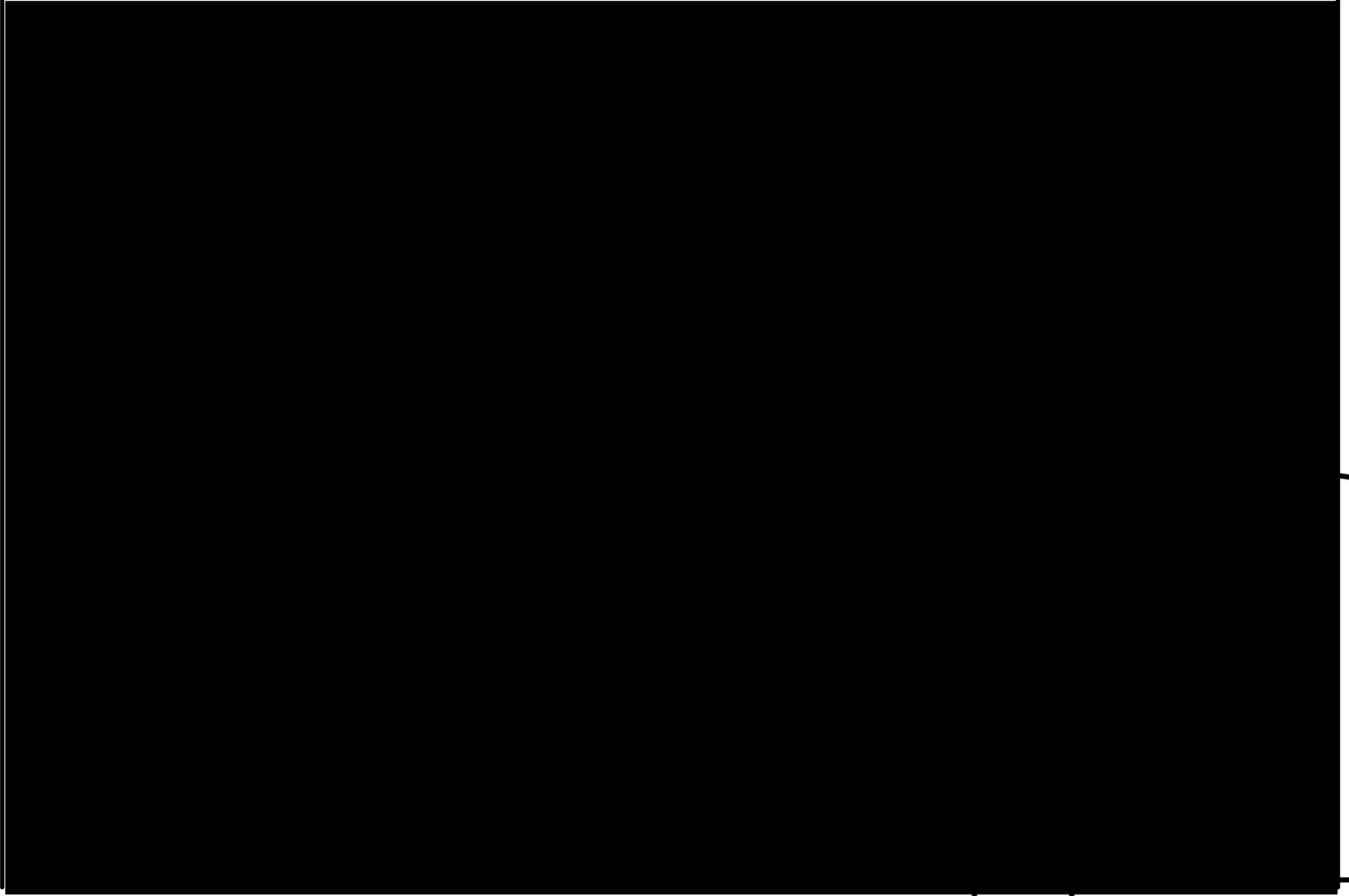


Mackinac and Bois Blanc Island Division
Staging Area Overview



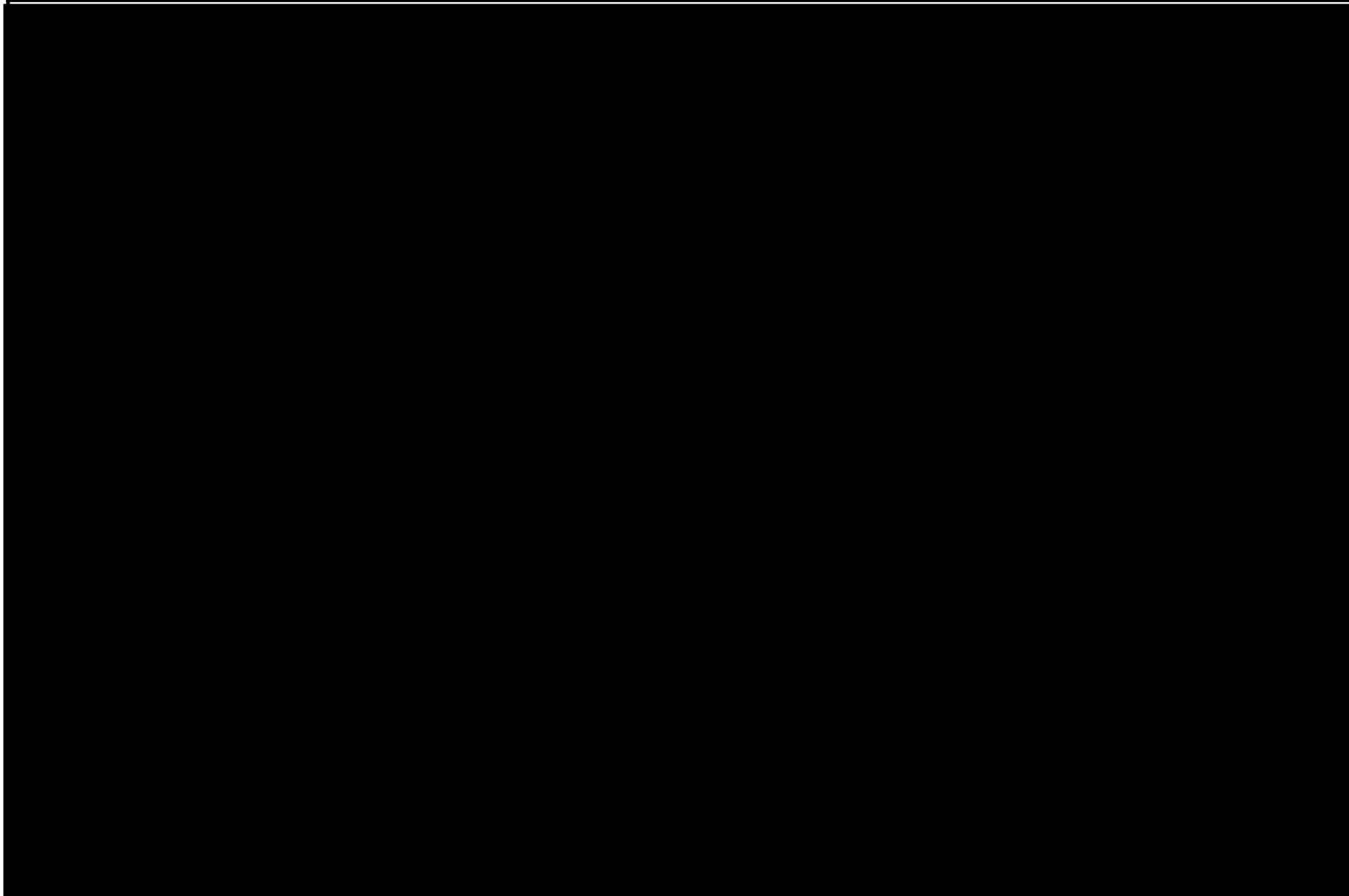


Les Cheneaux Islands Division
Staging Area Overview





Duncan Bay Division
Staging Area Overview





**Straits of Mackinac
Tactical Response Plan**

Duncan Bay Staging Areas: Driving Directions

Directions to DNBY-1:

From the

- | | |
|-----------------------|----------------|
| 1. Head no | 2.0 mi |
| 2. Take exit | 0.3 mi |
| 3. Turn right | 0.5 mi |
| 4. Turn right onto | 15.2 mi |
| 5. Turn left onto | 0.6 mi |
| (Destination will | |
| ght) | |
| Total Distance | 18.1 mi |

Directions to DNBY-2:

From the Intersection of

- | | |
|----------------------------------|----------------|
| 1. Head north on | 2.0 mi |
| 2. Take exit | 0.3 mi |
| 3. Turn right | 0.5 mi |
| 4. Turn right onto | 15.3 mi |
| 5. Turn right onto | 236 ft |
| 6. Take the 1 st left | 0.5 mi |
| 7. Turn left onto | 1.2 mi |
| 8. Turn right onto | 75 ft |
| (Destination will b | |
| ght) | |
| Total Distance | 19.8 mi |

Les Cheneaux Island Staging Areas: Driving Directions

Directions to LCHI-4:

From the intersection of

- | | |
|---------------------------------|----------------|
| 1. Head northeast on | 213 ft |
| 2. Take exit | 0.4 mi |
| 3. Turn right | 13.5 mi |
| 4. Turn right onto | 0.2 mi |
| 5. Take the 2 nd rig | 0.1 mi |
| (Destination will be on the | |
| Total Distance | 14.2 mi |



**Straits of Mackinac
Tactical Response Plan**

Directions to LCHI-6:

From the intersection of

- | | |
|-----------------------|----------------|
| 1. Head northeast on | 213 ft |
| 2. Take exit | 0.4 mi |
| 3. Turn right | 15.9 mi |
| 4. Turn right onto | 1.0 mi |
| 5. Continue onto | 1.0 mi |
| 6. Turn right | 354 ft |
| Total Distance | 18.4 mi |

Directions to LCHI-7:

From the intersection of

- | | |
|----------------------------------|----------------|
| 1. Head northeast on | 213 ft |
| 2. Take exit | 0.4 mi |
| 3. Turn right | 16.6 mi |
| 4. Turn right onto | 0.7 mi |
| 5. Take the 3 rd left | 0.5 mi |
| 6. Turn left to stay on | 203 ft |
| 7. Turn left | 59 ft |
| Total Distance | 18.3 mi |

Directions to LCHI-8:

From the intersection of

- | | |
|-----------------------|----------------|
| 1. Head northeast on | 213 ft |
| 2. Take exit | 0.4 mi |
| 3. Turn right | 16.6 mi |
| 4. Turn right onto | 0.3 mi |
| Total Distance | 20.3 mi |

**Mackinac and Bois Blanc Island Staging Areas: Driving
Directions**

Directions to MBBI-1:

From the Airport

- | | |
|-----------------------|---------------|
| 1. Head ea | 0.3 mi |
| 2. Turn left onto | 1.3 mi |
| 3. Turn right onto | 0.3 mi |
| Total Distance | 1.9 mi |



**Straits of Mackinac
Tactical Response Plan**

Directions to MBBI-11:

From the

- | | |
|-----------------------|---------------|
| 1. Head so | 0.2 mi |
| 2. Turn left onto | 0.7 mi |
| 3. Turn left to sta | 2.2 mi |
| 4. Turn left onto | 1.4 mi |
| Total Distance | 4.5 mi |

Northeast Straits Staging Areas: Driving Directions

Directions to NEST-1:

From the intersection of

- | | |
|-----------------------|---------------|
| 1. Head west on | 0.1 mi |
| 2. Turn left to me | 8.4 mi |
| 3. Take exit | 0.2 mi |
| 4. Merge ont | 0.5 mi |
| 5. Continue on | 30 ft |
| Total Distance | 9.2 mi |

Directions to NEST-2:

From the intersection of

- | | |
|-----------------------|---------------|
| 1. Head west on | 0.1 mi |
| 2. Turn left to me | 8.6 mi |
| Total Distance | 8.7 mi |

Directions to NEST-3:

From the intersection of

- | | |
|-------------------------|---------------|
| 1. Head west on | 0.1 mi |
| 2. Turn left to me | 7.0 mi |
| 3. Take exit | 0.1 mi |
| 4. Turn left o | 0.3 mi |
| 5. tur left and becomes | 0.1 mi |
| 6. onto | 1.5 mi |
| 7. Turn left onto | 0.3 mi |
| Total Distance | 9.4 mi |



**Straits of Mackinac
Tactical Response Plan**

Directions to NEST-5:

From the intersection of

- | | |
|-----------------------|---------------|
| 1. Head west on | 0.1 mi |
| 2. Turn left to me | 7.0 mi |
| 3. Take exit | 0.1 mi |
| 4. Turn left o | 0.3 mi |
| 5. | 0.1 mi |
| 6. | 0.3 mi |
| 7. Turn left | 72 ft |
| Total Distance | 7.9 mi |

Directions to NEST-6: Docks at

From the intersection of

- | | |
|-----------------------|---------------|
| 1. Head west on | 0.1 mi |
| 2. Turn left to me | 3.8 mi |
| 3. Take exit | 0.1 mi |
| 4. Merge ont | 2.8 mi |
| Total Distance | 6.8 mi |

Directions to NEST-7:

From the intersection of

- | | |
|-----------------------|---------------|
| 1. Head west on | 0.1 mi |
| 2. Turn left to me | 3.8 mi |
| 3. Take exit | 0.1 mi |
| 4. Merge ont | 2.7 mi |
| 5. Turn left ont | 0.2 mi |
| Total Distance | 6.9 mi |

Directions to NEST-8:

From the intersection of

- | | |
|-----------------------|---------------|
| 1. Head west on | 0.1 mi |
| 2. Turn left to me | 3.8 mi |
| 3. Take exit | 0.1 mi |
| 4. Merge ont | 2.7 mi |
| 5. Sharp left on | 0.2 mi |
| 6. Turn right to sta | 295 ft |
| Total Distance | 6.9 mi |



**Straits of Mackinac
Tactical Response Plan**

Directions to NEST-9:

From the intersection of

- | | |
|---------------------------------|---------------|
| 1. Head east on | 0.2 mi |
| 2. Turn left onto | 4.0 mi |
| 3. Turn right onto | 0.4 mi |
| 4. Take 1 st right o | 0.9 mi |
| 5. Continue onto | 443 ft |
| Total Distance | 5.5 mi |

Northwest Staits Staging Areas: Driving Directions

Directions to NWST-1:

From the intersection of

- | | |
|-----------------------|---------------|
| 1. Head southwest on | 0.9 mi |
| 2. Take exit | 0.2 mi |
| 3. Merge ont | 0.6 mi |
| 4. Slight right o | 1.1 mi |
| Total Distance | 2.8 mi |

Directions to NWST-7:

From the intersection of

- | | |
|-----------------------|----------------|
| 1. Head southwest on | 256 ft |
| 2. Take exit | 0.3 mi |
| 3. Turn right | 23.8 mi |
| Total Distance | 24.1 mi |

Southeast Straits Staging Areas: Driving Directions

Directions to SEST-2:

From the intersection of

- | | |
|-----------------------|---------------|
| 1. Head north on | 3.7 mi |
| 2. Take exit | 0.3 mi |
| 3. Turn left o | 0.2 mi |
| 4. Turn left onto | 423 ft |
| Total Distance | 4.2 mi |



**Straits of Mackinac
Tactical Response Plan**

Directions to SEST-3:

From the intersection of

- | | |
|----------------------------------|---------------|
| 1. Head north on | 3.7 mi |
| 2. Take exit | 203 ft |
| 3. Turn right | 387 ft |
| 4. Take the 1 st left | 0.4 mi |
| 5. Turn left onto | 220 ft |
| Total Distance | 4.5 mi |

Directions to SEST-4:

From the intersection of

- | | |
|--------------------------------|---------------|
| 1. Head north on | 3.3 mi |
| 2. Take exit | 0.1 mi |
| 3. Turn left o | 495 ft |
| 4. Take the 1 st ri | 0.3 mi |
| 5. Turn left onto | 52 ft |
| 6. Take the 1 st ri | 282 ft |
| Total Distance | 3.8 mi |

Directions to SEST-5:

From the intersection of

- | | |
|--------------------------------|---------------|
| 1. Head north on | 3.3 mi |
| 2. Take exit | 0.1 mi |
| 3. Turn left o | 495 ft |
| 4. Take the 1 st ri | 0.3 mi |
| 5. Turn left onto | 0.2 mi |
| 6. Turn left | 0.1 mi |
| Total Distance | 4.0 mi |

Directions to SEST-6:

From the intersection of

- | | |
|--------------------------------|---------------|
| 1. Head north on | 2.1 mi |
| 2. Take exit | 0.3 mi |
| 3. Turn right | 0.5 mi |
| 4. Turn right onto | 0.3 mi |
| 5. Turn left onto | 0.1 mi |
| 6. Take the 1 st ri | 0.1 mi |
| Total Distance | 3.4 mi |



**Straits of Mackinac
Tactical Response Plan**

Directions to SEST-7:

From the intersection of

- | | |
|-----------------------|---------------|
| 1. Head north on | 2.1 mi |
| 2. Take exit | 0.3 mi |
| 3. Turn right | 0.5 mi |
| 4. Turn right onto | 1.0 mi |
| 5. Turn left | 0.2 mi |
| Total Distance | 4.0 mi |

Southwest Straits Staging Areas: Driving Directions

Directions to SWST-1:

From the intersection of

- | | |
|-----------------------|---------------|
| 1. Head north on | 3.3 mi |
| 2. Take exit | 0.1 mi |
| 3. Turn left o | 0.2 mi |
| 4. Turn left onto | 2.0 mi |
| 5. Turn right onto | 0.5 mi |
| Total Distance | 6.3 mi |

Directions to SWST-2:

From the intersection of

- | | |
|--------------------------------|---------------|
| 1. Head north on | 2.1 mi |
| 2. Take exit | 0.3 mi |
| 3. Turn left o | 0.3 mi |
| 4. Take the 1 st ri | 2.3 mi |
| 5. Continue straight onto | 0.2 mi |
| 6. Turn left onto | 167 ft |
| Total Distance | 5.2 mi |

Directions to SWST-4:

From the intersection of

- | | |
|--------------------------------|----------------|
| 1. Head north on | 2.1 mi |
| 2. Take exit | 0.3 mi |
| 3. Turn left o | 0.3 mi |
| 4. Take the 1 st ri | 2.3 mi |
| 5. Continue straight onto | 0.2 mi |
| 6. Turn left onto | 6.8 mi |
| Total Distance | 12.0 mi |



*Straits of Mackinac
Tactical Response Plan*

Directions to SWST-5:

From the intersection of

- | | |
|--------------------------------|----------------|
| 1. Head north on | 2.1 mi |
| 2. Take exit | 0.3 mi |
| 3. Turn left o | 0.3 mi |
| 4. Take the 1 st ri | 2.3 mi |
| 5. Continue straight onto | 0.2 mi |
| 6. Turn left onto | 7.9 mi |
| Total Distance | 13.1 mi |

Directions to SWST-6:

From the intersection of

- | | |
|--------------------------------|----------------|
| 1. Head north on | 2.1 mi |
| 2. Take exit | 0.3 mi |
| 3. Turn left o | 0.3 mi |
| 4. Take the 1 st ri | 2.3 mi |
| 5. Continue straight onto | 0.2 mi |
| 6. Turn left onto | 8.7 mi |
| Total Distance | 13.9 mi |



*Straits of Mackinac
Tactical Response Plan*

Response Equipment Vendors			
Vendor	Phone Number	Address	Estimated Time of Arrival
[REDACTED]	[REDACTED]	[REDACTED]	~4-6 Hours
[REDACTED]	[REDACTED]	[REDACTED]	~4-6 Hours
[REDACTED]	[REDACTED]	[REDACTED]	~11-13 Hours



**Straits of Mackinac
Tactical Response Plan**

Escanaba PLM Boom Trailer Inventory

Quantity	Description
500 ft	Floating Oil Boom w/Quick Latch Couplings (6" Skirt on Boom)
6	50' Lengths of 4: Boom w/ Couplers and Towing Bridles
1	Boom Tow Bridle
6	4" Boom Bridles
0	Oil Sorbent SPC Sweep
4	Sorbent Boom 6" x 10' 4/Bag-240'
1	Sorbent Boom 5"x10' 4/Bag-40'
8	Bales of Sorbent Pads 17"x19" 100/Bale
0	Bales of Sorbent Boom 4/Bale
4	Anchors-15lb Danforth
1	Anchors – Fabricated Disc.
4	Buoys
0	Skim-Pak Weir Skimmer w/Discharge + Hose + Wand Extension + Screen
1	Manta-Ray-Floating Suction Head
0	Elastec Power Unit Motor Manual + Tools
0	3" Metal 45s for Pipe for Skimmer
1	3" Air Operated Diaphragm Pump with 3" Kamlocks
2	15'x3" Floating Discharge Hose
4	15'x3" Rigid Suction/Discharge Hose
1	3" Discharge Hose
2	50'x 2" Discharge Hose
4	3" Hose Floats
1	2" Hose Floats



**Straits of Mackinac
Tactical Response Plan**

Escanaba PLM ER Inventory

Quantity	Description
1	1800 Gal. Port –a-Tank and Liner
1	50' ½" Rope with Quick Disconnect Fitting
4	25' ½" Rope with Quick Disconnect Fitting
0	Roll with ½" Plastic Rope (1/4 roll) (Yellow)
0	¾" Rope
3	25' Ropes for Body Harness
6	25' Blue Rope
5	75' Yellow Rope
4	100' Green Rope
4	150' Orange Rope
7	Strobe Light
1	Axe
1	Sledge Hammer
4	Shovels
2	Belt Harnesses
10	Reflective Belts
0	Reflective Vests
5	Body Harness
0	Amber 12-Volt Strobe Light
0	Pair of Snorkel Rubber Gloves
0	12-Volt Hand-Held Spotlight
4	Life Vest Type 2
7	Life Vest Type 5
0	Life Vest Type 1
1	Bolt Cutter
9	Pairs of Neoprene Rubber Gloves Long Sleeves
0	Deluxe Safety Vest
1	Roll of Orange Fence
1	Wind Sock



**Straits of Mackinac
Tactical Response Plan**

Escanaba PLM ER Inventory

Quantity	Description
5	Screw in Fence Post Anchors
15	Fence Post
7	Chest Waders
1	Ice Picks
1	Tub of Boom Bridles
1	ICS Org Chart
0	Rolls of Fence (Chicken Wire)
2	Rolls of Bailing Wire
4	12' 2x6s
4	12' 2x4s
1	16' Probe
2	3" Male to Female Threads
2	3" Female to Female Threads
4	3" Male to Male Threads
3	3" Female to 2" Male Adaptor
2	3" Male to 2" Female Adaptor
4	2" Male to Male Threads
2	2" Male to Female Threads
2	2" Female to Female Threads
1	3" Female to 2" Male Plastic Adaptor



**Straits of Mackinac
Tactical Response Plan**

Escanaba Winter Trailer Inventory

Quantity	Description
2	Water Gate Containment
2	Section of Orange Boom
10	Tow Bridle
7	Bags of Absorbent Pads
1	Hydraulic Power Unit
1	Hydraulic Water Pump
1	Hydraulic Skimmer
3	10' Oil Hose
1	8' Oil Hose
3	Size 12 Chest Waders
3	Size 11 Chest Waders
3	Size 10 Chest Waders
3	Size 9 Chest waders
3	Incandescent Lights
1	Husqvarna 3120 XP Chainsaw with 40" Bar
1	Stihl 044 Chain Saw with 28" Bar
1	Jug of Stihl Bioplus Oil
1	36" Bar
1	Stihl BR Leaf Blower
1	Eskimo 8" Ice Auger
1	Jiffy 10" Ice Auger
3	Picks of Life
3	Sets of ice cleats
2	Boxes of Disposable Gloves
2	Sets of 12" Ice Tongs
1	36" Ice Tong
1	Roll of Plastic
1	Warn Winch 23500
1	Bundle of Sand Bags
2	1 lb Propane Bottles
41	Life Jackets
2	Spill Kit Barrels
1	Hand Ice Auger
1	Floating Hose for Skimmer
3	Ice Shovels
1	3' Long Water Sample Scoop



**Straits of Mackinac
Tactical Response Plan**

Escanaba Wildlife Trailer Inventory

Quantity	Description
2	Gas Cannons
2	Gas Cannons Tri Pods
2	Containment Ponds
2	Space Heaters
3	Flags (Rolls)
5	Traffic Cones (Strobe Light Base)
10	Cardboard Pet Carriers
4	Air Horns
4	Strobe Lights
2	Roll Aluminum Foil 500'
2	Boxes Nitrile Gloves
1	Tacker Hammer (To hang flags)
1	Roll Masking Tape
2	Rolls of Streamers
150	Paper Bags (primary deceased birds storage)
5	XL Tyvek Suits
1	Garbage Bags (Large) (Secondary Storage)
3	Plastic Pet Crates
1	4' air operated barrel skimmer
1	8' air operated barrel skimmer
1	Skim Pak Skimmer
1	Elastec Gas Operated Power Unit
2	20' Sections of 2" Oil Hose



**Straits of Mackinac
Tactical Response Plan**

Manistique Boom Trailer Inventory

Quantity	Description
400 ft	Floating Oil Boom w/Quick Latch Couplings (6" Skirt on Boom)
2	Boom Tow Bridle
5	Sorbent Boom Bales 8"x10' 4/Bale
5	Sorbent Boom Bales 5"x10' 4/Bale
1	Sorbent Pads 17"x19" 200/Bale
2	Sorbent Pads 17"x19" 100/Bale
0	½" Rope 100'
0	½" Ropes 25' with Hooks
4	Shovels
1	Sledge Hammer
2	Claw Hammer
25	Fence Post
0	Row of Fence (Chicken Wire)
0	Culvert
5 lbs	16 Penny Nails
1	Windsock & Pole
2	Row of Bailing Wire
2 (no batt)	Flashlights/Batteries
2	Life Jackets
2	Chest Waders (Size 10 & 12)
1	Electrician Pliers
1	Garbage Bags (Box of 100)
1	Safety Barricade Tape (Yellow)
1	Tin Snips
1	Hacksaw with 6 Blades
2	Reflective Vests
2	Permalon 40' x 100' ply 210
6	Neoprene Rubber Gloves
2	Hip Boots (Size 10 & 12)
1	Telescoping Gaff Hook
0	12' 2x4s
0	12' 2x6s
1	Post Pounder
1	1-150' Orange
1	75' Yellow
1	50' 1/2" White
0	Roll Help Rope 3/8



**Straits of Mackinac
Tactical Response Plan**

Gould City Boom Trailer Inventory

Quantity	Description
400 ft	Floating Oil Boom w/Quick Latch Couplings (6" Skirt on Boom)
3	Boom Tow Bridle
5	Sorbent Boom Bales 8"x10' 4/Bale
5	Sorbent Boom Bales 5"x10' 4/Bale
0	Sorbent Pads 17"x19" 200/Bale
3	Sorbent Pads 17"x19" 100/Bale
1	½" Rope 100'
4	½" Ropes 25' with Hooks
6	Shovels
1	Rake
1	Sledge Hammer
2	Claw Hammer
18	Fence Post
3	Row of fence
0	Culvert
5 lbs	16 Penny Nails
0	Windsock & Pole
1 (no batt)	Flashlights/Batteries
2	Row of Bailing Wire
1	Life Jackets
3	Chest Waders (Size 10 & 12)
1	Electrician Pliers
1	Garbage Bags (Box of 100)
1	Safety Barricade Tape (Yellow)
1	Tin Snips
1	Hacksaw with 6 Blades
2	Reflective Vests
2	Permalon 40' x 100' ply 210
6	Neoprene Rubber Gloves
1	Hip Boots (Size 10 & 12)
0	Telescoping Gaff Hook
8	12' 2x4s
11	12' 2x6s
1	Fence Pliers



**Straits of Mackinac
Tactical Response Plan**

St. Ignace Valve Yard Boom Trailer Inventory

Quantity	Description
1000 ft	Floating Oil Boom w/Quick Latch Couplings (16" Skirt on Boom)
1	Boom Tow Bridle
5	Anchors-with Chains & Rope
2	Buoy Markers with Lights & Ropes & Batteries
2	Bales 40' each 6"x10" Sorbent Boom
2	Bales 40' each 8"x10" Sorbent Boom
1	Bales oil Sorbent Sweep 17"x100"
1.5	Bales of Sorbent Pads 17"x18" 100/Bale
1	Bales of Sorbent Rolls 38" x 144"
1	3" Air Operator Diaphragm Pump c/w 3" Kamlocks
1	Generator 2500 Watts
4	Life Jackets
1	Gaff Hook
4	Pairs of Hip Boots 2 EA. (Size 10 & 12)
4	Packs of Slip Protection for Boots
1	Fast Tank + 1 Fast Tank Saddle Assembly
5	Rain Pants
2	Rain Jackets
1	Quick Tank
1	Cover for Tank
4	Shovels
1	Sledge Hammer
1	Hammer
12	Fence Posts
1	Bag of Fence Ties/ bag of Penny Nails
1	16 Penny Nails
1	Post Pounder



**Straits of Mackinac
Tactical Response Plan**

Mackinac Station Boom Trailer Inventory

Quantity	Description
1000 ft	Floating Oil Boom w/Quick Latch Couplings (16" Skirt on Boom)
1	Boom Tow Bridle
5	Anchors-with Chains & Rope
5	Buoy Markers with Lights & Ropes & Batteries
2	Bales 40' each 6"x10" Sorbent Boom
2	Bales 40' each 8"x10" Sorbent Boom
2	Bales oil Sorbent Sweep 17"x100"
2	Bales of Sorbent Pads 17"x18" 100/Bale
1	Bales of Sorbent Pads 100/Bale 17" x 19"
2	Bales of Sorbent Rolls 38" x 144"
1	3" Air Operator Diaphragm Pump c/w 3" Kamlocks
1	Generator 2500 Watts
4	Life Jackets
1	Gaff Hook
4	Pairs of Hip Boots 2 EA. (Size 10 & 12)
4	Packs of Slip Protection for Boots
1	Fast Tank + 1 Fast Tank Saddle Assembly
5	Rain Pants
2	Rain Jackets
1	Quick Tank
1	Cover for Tank
4	Shovels
1	Sledge Hammer
1	Hammer
12	Fence Posts
2	Rolls of Bailing Wire
1	Bag of Fence Ties
1	Bag of Penny Nails
1	Post Pounder

Mackinac ER Equipment Inventory

Quantity	Description
1	Assault Jet Boat (27 ft)
1	Lund Alaskan (18 ft) with 90 HP Outboard
1500 ft	Air Boom
1	Deep Water Hydraulic Clamp -20"



**Straits of Mackinac
Tactical Response Plan**

Indian River Station Boom Trailer Inventory

Quantity	Description
400 ft	Floating Oil Boom w/Quick Latch Couplings (6" Skirt on Boom)
2	Boom Tow Bridle
5	Sorbent Boom Bales 8" x 10' 4/Bale
5	Sorbent Boom Bales 5" x 10' 4/Bale
1	Sorbent Pads 17"x19" 200/Bale
1	Sorbent Pads 17"x19" 100/Bale
1	½" Rope 100'
4	½" Ropes 25' with Hooks
4	Shovels
1	Rake
1	Sledge Hammer
2	Claw Hammer
25	Fence Post
0	Row of Fence (Chicken Wire)
2	Culvert
5 lbs	16 Penny Nails
1	Windsock & Pole
2	Row of Bailing Wire
2	Flashlights/Batteries
2	Life Jackets
2	Chest Waders (Size 10 & 12)
5	Boat Rope Snap Hooks
0	Electrician Pliers
0	Garbage Bags (Box of 100)
0	Safety Barricade Tape (Yellow)
1	Tin Snips
1	Hacksaw with 6 Blades
2	Reflective Vests
1	Permalon 40' x 100' ply 210
6	Neoprene Rubber Gloves
2	Hip Boots (Size 10 & 12)
1	Telescoping Gaff Hook
0	12' 2x4s
0	12' 2x6s
1	Linesman Pliers
1	Caution Tape

City of Mackinac Island, Michigan

FAX: 906-847-6430

Authority: Ord. No. 357 Completion: Required Penalty: Misdemeanor
--

APPLICATION FOR TEMPORARY MOTOR VEHICLE PERMIT

Please type or print legibly

Permit Fee (to accompany application): \$ _____

Applicant/Permittee Name: _____

Contact Name: _____

Address: _____

Address

City

State

Zip Code

Telephone Number: _____

Facsimile Number: _____

Vehicle(s) Description/Vehicle(s) #: _____

Location of Proposed Vehicle(s) Use: _____

Purpose and Reason(s) for Vehicle(s) Need and Use: _____

Proposed Starting Date of Use: _____

Total Days of Usage: _____

The submittal of an application does not imply approval from the City of Mackinac Island. Approved permits are based on the information provided on the application. Any use or purpose which is contrary to approved uses and purposes, or violation of any other local ordinance or state law constitutes a violation of permits conditions and will be subject the Permittee to penalty as prescribed under Ord. No. 296 and/or revocation of the permit.

Applicant's Signature

Date of Application

DO NOT WRITE IN THE AREA BELOW-CITY/STATE USE ONLY

Date Application Received by the City: _____ Received by: _____ Fee Amount: _____

Date of Action on Application: _____ By: _____

☐ Approved ☐ Denied/Reason(s): _____

Conditions of Approval: _____

Date Application Received by the State: _____ Received by: _____ Fee Amount: _____

Date of Action on Application: _____ By: _____

☐ Approved ☐ Denied/Reason(s): _____

Conditions of Approval: _____

November 1, 2004

City of Mackinac Island, Michigan
Motor Vehicle Permit Fees

Adopted: February 7, 2001
Effective: June 1, 2001
Modified: February 21, 2005
Effective: May 1, 2005

Vehicle type	1 to 3 days	4 to 6 days	7 to 15 days	16 to 30 days
Lawn & Garden Tractor-seasonal Under 1,000 lbs. Gross vehicle weight (lawn care) 5/11 thru 11/11				\$50.00 annual fee
Commercial Golf Cart				\$30.00 annual fee
Contracted Commercial/ Maintenance				\$50.00 annual fee
Automobile, Conversion Van, Van	\$150.00	\$200.00	\$250.00	\$300.00
Panel truck, stake truck, Pickup truck	\$175.00	\$225.00	\$300.00	\$400.00
5-yard dump truck, backhoe, excavator, bucket truck, forklift, paint lifts (motorized)	\$175.00	\$225.00	\$300.00	\$400.00
10-yard dump truck (tandem axle maximum)	\$200.00	\$250.00	\$350.00	\$525.00
Bulldozer, grader, front-end loader, crane	\$175.00	\$225.00	\$300.00	\$475.00
Redi-mix truck (4 cubic yard maximum)	\$200.00	\$250.00	\$350.00	\$525.00
Single bottom tractor/trailer, Dumpster truck	\$200.00	\$250.00	\$350.00	\$525.00
Propane (Semi-Tanker Truck) (T & M = Extra Charge Needed For Police Escort)	\$200.00 + T & M	\$250.00 + T & M	\$350.00 + T & M	\$525.00 + T & M (For Police Escort)
Modular House Section (Per Section) (T & M = Extra Charge Needed For Police Escort)	\$200.00 + T & M	\$250.00 + T & M	\$350.00 + T & M	\$525.00 + T & M (For Police Escort)

REDACTED SUBMITTAL -- PUBLIC COPY

NORTHWEST CORNER
PRIVATE CLAIM NUMBER 1
AND NORTHWEST CORNER
BLOCK 12, PARTITION
PLAT OF PRIVATE CLAIM
NUMBER 1

CERTIFICATE OF SURVEY

NORTHEAST CORNER
BLOCK 12, PARTITION
PLAT OF PRIVATE
CLAIM NUMBER 1
SEE PAGE 2 OF 2

REDACTED

MONUMENTED BY OTHERS

SCALE 1" = 300'

0 150 300 450 600

○ = SET 1/2" ROD & CAP #15410

■ = FOUND CONCRETE MONUMENT

● = FOUND 5/8" ROD

✕ = FOUND 1/2" ROD & CAP #13030

✕ = FOUND 1/2" ROD & CAP #27450

— = NOT TO SCALE

M= MEASURED BY PORTER'S SURVEY P.C.

RGF= MEASURED BY GOURDIE FRASER &
ASSOCIATES INC. SURVEY NUMBER
771355, DATED JULY 7, 1977

RNW= MEASURED BY NORTHWOODS LAND
SURVEYING PROJECT NUMBER 4159-00,
DATED DECEMBER 13, 2000

RP= RECORDED AS PER PLAT OF THE
PARTITION PLAT OF PRIVATE CLAIM NO.
CITY OF ST. IGNACE, MACKINAC COUNTY.

SEE PAGE 2 OF 2 FOR WITNESSES

STATE OF MICHIGAN

DELMER E.
PORTER

LAND
SURVEYOR

No.
15410

REGISTERED LAND SURVEYOR

STRAITS OF MACKINAC

10' WATER

10' WATER

10' WATER

PREPARED BY:
PORTER'S SURVEY
P.O. BOX 159
21529 M-68 HWY
ONAWAY, MICHIGAN
49765

P.C. #1 T 40N R 3W

CITY OF ST. IGNACE

MACKINAC CO.

MICHIGAN

I, DELMER E. PORTER, HEREBY CERTIFY THAT I HAVE SURVEYED
AND MAPPED THE PARCEL OF LAND HEREIN DESCRIBED AND
THE BOUNDARY IS WITHIN 1/5000 CLOSURE AND THAT I HAVE
FULLY COMPLIED WITH THE REQUIREMENTS OF PUBLIC ACT
132-70, AS AMENDED PUBLIC ACT 280, 1972, MSA 13.115(61).

DELMER E. PORTER P.S. 15410

7/6/2011

DATE

CERTIFIED TO:
MARK OLSON
ENBRIDGE SUPERIOR REGION

TYPE SURVEY:
(X) BOUNDARY () TOPO () OTHER

DESCRIPTION OF OTHER:

SUR. NO. 38-11

FILE NO. 40R3027

DRAWN BY: B.C.P.

PAGE: 1 OF 2

CERTIFICATE OF SURVEY

SURVEY REQUEST:
PROVIDE AN EXTERIOR BOUNDARY SURVEY OF THE FOLLOWING PROVIDED DESCRIPTION.

DESCRIPTION PROVIDED:
LAND DESCRIBED AS: LOCATED IN MORAN TOWNSHIP, MACKINAC COUNTY, MICHIGAN, AND MORE PARTICULARLY DESCRIBED AS: LOTS 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, AND 28, ALL IN BLOCK 12, PARTITION PLAT OF PRIVATE CLAIM 1, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 4, PAGES 49, 49A AND 49B, MACKINAC COUNTY RECORDS.

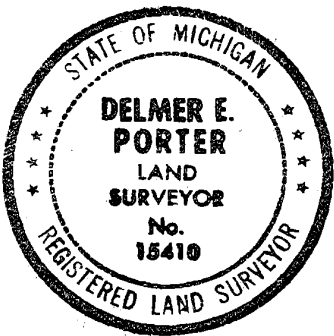
WITNESSES

NORTHWEST CORNER PRIVATE CLAIM NUMBER 1
AND NORTHWEST CORNER BLOCK 12, PARTITION
PLAT OF PRIVATE CLAIM NUMBER 1
T40N, R3W
CONCRETE MONUMENT
NORTH 7.4' 4" STUMP
N 30° E 10.50' 4" CEDAR
N 65° E 14.45' 6" SPRUCE
S 70° E 14.94' 5" SPRUCE
S 70° E 15.22' 6" CEDAR
N 09° E 12.69' 6" SPRUCE

NORTHEAST CORNER BLOCK 12, PARTITION
PLAT OF PRIVATE CLAIM NUMBER 1
T40N, R3W
1/2" ROD & CAP #13030
N 85° E 13.24' 4" BLACK SPRUCE
S 55° E 9.96' 12" CEDAR
S 10° E 3.25' 10" CEDAR
S 80° W 6.00' 8" CEDAR

SOUTHWEST CORNER BLOCK 12, PARTITION
PLAT OF PRIVATE CLAIM NUMBER 1
T40N, R3W
5/8" REBAR
N 45° W 9.45' 8" CEDAR
N 50° E 31.55' 10" CEDAR
N 75° E 4.20' 10" CEDAR
S 60° E 4.90' 8" CEDAR
SOUTH 20' CENTERLINE GRAVEL ROAD

SOUTHEAST CORNER BLOCK 12, PARTITION
PLAT OF PRIVATE CLAIM NUMBER 1
T40N, R3W
1/2" ROD & CAP #15410
N 45° W 343.63' 4" CEDAR
N 35° E 119.50' 2' X 3' ROCK
WITH CHISELED "x"
WEST 441.55' 1/2" ROD & CAP #15410
SOUTH 10.00' EDGE OF WATER



PREPARED BY:
PORTER'S SURVEY
P.O. BOX 159
21529 M-68 HWY
ONAWAY, MICHIGAN
49765

P.C. #1 T 40N R 3W
CITY OF ST. IGNACE
MACKINAC CO.
MICHIGAN

I, DELMER E. PORTER, HEREBY CERTIFY THAT I HAVE SURVEYED AND MAPPED THE PARCEL OF LAND HEREIN DESCRIBED AND THE BOUNDARY IS WITHIN 1/5000 CLOSURE AND THAT I HAVE FULLY COMPLIED WITH THE REQUIREMENTS OF PUBLIC ACT 132-70, AS AMENDED PUBLIC ACT 280, 1972, MSA 13.115(61).

Delmer E. Porter 7/6/2011
DELMER E. PORTER P.S. 15410 DATE

CERTIFIED TO: MARK OLSON ENBRIDGE SUPERIOR REGION	SUR. NO. 38-11
	FILE NO. 40R3027
TYPE SURVEY: (X) BOUNDARY () TOPO () OTHER	DRAWN BY: B.C.P.
DESCRIPTION OF OTHER:	PAGE: 2 OF 2