

[illegible]

The image is a 2x2 grid of photographs. The top-left photo shows a large cargo ship passing under a white metal arch bridge over a body of water. The top-right photo shows two people in yellow kayaks on a calm lake near a steep, layered rock cliff. The bottom-left photo shows a rocky shoreline with clear, greenish water and some green algae growing on the rocks. The bottom-right photo shows a wetland area with a line of green trees in the background and lily pads in the foreground water.

*Developed and Maintained by:
Duluth-Superior &
Upper Peninsula*

Port Area Committees

Calumet Superior LLC



PREP & AMSTEP FSE Background

- Preparedness for Response Exercise Program (PREP) Full Scale Exercises – Triennially**

(rotates fm Ind-Led to Gov-Led)- 2010; 2013; 2016; 2019; etc...

PREP Guidelines page 7-8 (Area Exercises)

1. Exercise the ACP;
2. Exercise the Response Management System identified in the ACP;
3. Exercise Area and Industry Spill Management Teams;
4. Deploy adequate response equipment for the exercise scenario (WCD Tier 1);



- Area Maritime Security Training Exercise Program (AMSTEP) Full-Scale Exercises**
Twice in a 5-yr period

PREP FULL SCALE SCHEDULE 2013-2018

ADP	Federal Participant	2013	2014	2015	2016	2017	2018
CG 01							
Mahe & New Hampshire	DEC Northern New England	Government	Industry	Industry	Government		
Providence to Portland	DEC Boston						
Rhode Isl. - SE MA	DEC Southern New England	Government	Industry				
Long Island Sound	DEC Long Island Sound	Industry			Government		
New York & New Jersey	DEC New York						
CG 04							
Philadelphia Coastal	DEC Delaware Bay			Industry			Industry
Upper Chesapeake	DEC Baltimore		Industry		Government		
VA and Coastal MD	DEC Maryland Roads			Government		Industry	
North Carolina Coastal	DEC North Carolina		Industry			Government	
CG 07							
Chesapeake	DEC Chesapeake	Industry			Industry		
Leavenworth	USCG Savannah	Industry					
Jacksonville	DEC Jacksonville			Government	Industry		Industry
St. Florida	DEC Miami		Industry			Government	
Florida Keys	DEC Key West		Industry		Industry		
Caribbean	DEC San Juan			Industry			Government
Alaska	DEC St. Petersburg		Government			Industry	
CG 08							
AL, ME, NW FL	DEC Mobile			Industry			Industry
Mobile Bay	DEC New Orleans			Government			Industry
Morgan City	USCG Morgan City		Industry				
Houston/Gulf	DEC Houston/Gulf			Government	Government		Industry
Del. LA, TX, TX	USCG Port Arthur			Industry			Industry
South Texas Coast	DEC Corpus Christi		Government			Industry	
CG 09							
Eastern Great Lakes	DEC Buffalo			Government			Industry
Southwest Michigan	DEC Detroit		Industry				
Sevier Lake Michigan	DEC Lake Michigan		Industry		Industry		Industry
Great St. Marys	DEC Great St. Marys						
Western Lake Superior	DEC Duluth		Government			Industry	
CG 011							
San Diego	DEC San Diego						
LALB North	DEC LALB			Industry		Industry	
LALB South	DEC LALB		Government		Industry		Industry
San Francisco Bay, Delta and Central Coast	DEC San Francisco Bay and Delta	Crest			Industry		
CG 012							
Proctor NW - Oregon	DEC Columbia River			Government			Industry
Proctor NW - Wash	DEC Puget Sound		Industry				Industry
CG 014							
Guam Islands	DEC Northern		Industry			Government	
Guam Northern Marianas	DEC Guam			Industry			Government
CG 017							
AKARY United Plan (SW)	DEC Anchorage		Government			Industry	
AKARY United Plan (NW)	DEC Kodiak		Government				
AKARY United Plan (SE)	DEC Juneau			Industry			Industry

Exercise Design Team

Name/Rank	Agency
Charles LaGesse, Chief of Police	Superior Police Dept
John Strongitharm, Fire Chief	Duluth Fire Dept
John Cavanaugh	MN DOT
Mike Marturano	St Lukes Hospital
Jim Sharrow	Duluth Seaway Port Auth
Robert Pump, BMCS	CG STA Duluth
Steve Panger, Fire Chief	Superior Fire Dept
LT Eric Rish	Duluth Police Dept
Joshua Maas	WSIC/WDOJ
William Chandler, Director	MNJAC
Duane "Dewey" Johnson	St Louis County - 911
Sheri Walz	WI DOT
David Oginski	WI DNR
Keith Kessler	Douglas Co Emergency Mgmt
Randy Books	DEM- NW Region
Roy Holmes	MN HSEM - NE Region
Scott Camps	St Louis County Sheriff Off
John Sager	WI DNR
LCDR Jay Lomnicky	NOAA SSC
Ann Whelan	EPA Region 5
Theresa Holz	EPA Region 5
Jason Suckow	USDA APHIS Wildlife Services
Annette Trowbridge	USFWS - Bloomington
Lisa Yantachka	MPCA
Steve Leppala	MPCA
Marilyn Danks	MN DNR
Jim Snyder	NSFCC
LTjg Ben Earling	CGC ALDER
Mr. Robert J. Balog	USCG DOG
Captain Joe Walters	USGS - R/V KIYI
Pat Collins	MN DNR
LT Judson Coleman	USCG MSU
LCDR Todd Wiza	USCG Ex Support Team

2013 Twin Ports FSE Planning Team AMSTEP/PREP

Name/Rank	Agency
Damon Sanders	USCG Ex Support Team
Dan Donovan	USCG Ex Support Team
Bob Allen	USCG D9 (dxc)
Bill Ferenczy	USCG D9 (dxc)
Pat Tracey	OSI Environmental, Inc
Jason DeSantis	NRC Corp
Chuck Deye	Bay West, Inc
Scott Binko	USCG D9 (dm)
LT Mary Hoffman	USCG D9 (dm)
Frederic (Fritz) Wasco	USCG D9 (dxc)
Warren LaPlante	USCG MSU
Larry DiDomenico	USCG MSU

**Volunteer members of the
Western Lake Superior
Port Area Committee &
Area Maritime Security
Committee**

Exercise Planning Meetings

- | | | |
|-----|--|---|
| 1. | Concept and Objectives Meeting | 04 Dec 2012 |
| 2. | Initial Planning Conference (IPC) | 10 Jan 2013 |
| 3. | Middle-Term Planning Conference (MPC) | 27 Mar 2013 |
| 4. | MSEL Conference | 28 Mar 2013 |
| 5. | Final Planning Conference (FPC) | 30 Jul 2013 |
| 6. | Controller and Evaluator Brief | 27 Aug 2013 |
| 7. | Exercise Player Briefing | 28 Aug & 29 Aug 2013 |
| 8. | Exercise Conduct & Safety Brief | 28 Aug & 29 Aug 2013 |
| 9. | Exercise Player Hotwash | 28 Aug & 29 Aug 2013 |
| 10. | Controller and Evaluator Debriefing | 28 Aug & 29 Aug 2013 |
| 11. | Evaluator EEG to Lead Exercise Evaluator | 12 Sep 2013 |
| 12. | After Action Conference | TBD |
| 13. | After Action Report | TBD |
| 14. | AAR Due | 28 Oct 2013 (60 Days)
27 Nov 2013 (due date) |



Pre-Exercise Training

27 Aug 2013 – Barkers Island Conf Center



Joint Information
Center (JIC) & Risk
Coms Training

ICS 320 - Intermediate IMT Training
(Team Building & ICP Establishment
emphasis on the Planning Cycle...)

Requested the week of
18 Aug 2014

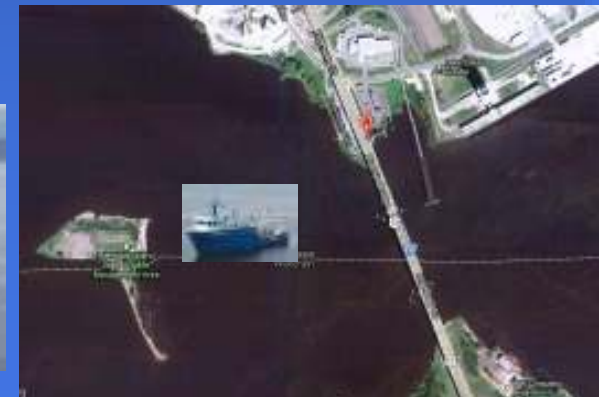
ICS-320 Intermediate IMT Training – classroom – 24 hours **Course Code: 501390**
ICS-320 Intermediate Incident Management Team (IMT) Training (old MATES) is a three-day CG developed team building course that consists of an overview of the concepts, principles, and protocols of NIMS ICS with a focus on the establishment of the Incident Command Post, specific position responsibilities, assignments, information flow, and NIMS ICS products related to management of resources, Command Staff issues, development of the Operations Section organization and the Planning Cycle during a response or event. It highlights the inter-dependence of information flow and the need for teamwork within a Type 1, 2 or 3 IMT Organization. Prerequisite is ICS-300.

Exercise Scenario

At 0600 28 Aug 2013 the M/V SALTIE DOG allides with the Blatnik Bridge and runs aground on Interstate Island blocking the channel. The vessel ruptures the port bunker tank & discharges 40K gals of IFO-380 (WCD).

During the investigation it is discovered crew members differ from those on the vetted crew manifest. Surveillance equipment is later detected.

During the course of the incident... the spill expands and may likely impact's environmentally sensitive areas.



Joint PREP - AMSTEP FSE

Operation Peeking Duck 2013 Full Scale Exercise

"PEKING DUCK"



Joint FSE

- Oil Spill
- Maritime Security



Interstate Island
aka "Bird Island"

Research Vessel KIYI – Played Role as RP

USGS Fisheries Research Vessel KIYI

Commissioned April 28, 2000

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Vessel Owner: United States Geological Survey

Vessel Builder: Patti Shipyard, Inc., Pensacola, FL

Project Management Team: USGS Great Lakes Science Center, Ann Arbor, MI in partnership with USACE Marine Design Center, Philadelphia, PA

Vessel Operation Team: USGS Lake Superior Biological Station, Ashland, WI

Vessel Particulars

Length Overall: 107'

Breadth: 27'

Hull Depth: 12'

Load Line Draft: 9'-0"

Gross Tonnage: 290

Displacement: 232 Ltons

Max Speed: 11 Knots

Fuel Capacity: 9,600 Gal.

Endurance @ Max. Capacity: 10 Days

Accommodations: 3 Crew, 6 Researchers

Year Built: 1999

Contract Cost: \$3,299,343.63

Vessel Certification: American Bureau of Shipping (ABS) Class @ A1 Great Lakes Service; @ AMS USCG and UNOLS Compliant

Photos

1 of 1



The United States Geological Survey's Research Vessel Kiyi was commissioned in 2000. (Photo by USACE Photograph)

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Related Content

[Related Link Plans](#)



Length: 107'
Beam: 27'
Draft: 12'
Gross Tons: 290
Speed: 11 knots
Fuel Cap: 9,600 gal
Crew: 4

Exercise Objectives

PREP Objectives:

1. Evaluate the ability to make appropriate notifications to oil spill response agencies and stakeholders.
2. Test the Response Management System's ability to establish a Unified Command.
3. Test the establishment of a Wildlife Branch as described in the Western Lake Superior ACP.
4. Test the initiation of the Natural Resource Damage Assessment and Restoration (NRDAR) process.
5. Deploy adequate response equipment for the exercise scenario.
 - Test the deployment of Coast Guard response trailer protective boom.

PREP

1. Notifications
2. UC Establishment
3. Wildlife Branch
4. NRDAR
5. Equip Deployment

AMSTEP

AWARENESS:

1. Validate port emergency responder communications interoperability through the appointed COML, use of both the ICS 205 and Port Communications Protocol, and with respective responding agencies equipment.
2. Assess the information sharing procedures for communicating situational operations and threat information internally within the Unified Command structure, in addition to keeping the public informed.

SECURITY RESPONSE

3. Validate the ability to establish/transition of the appropriate incident command and unified command structure, including the use of NIMS and participation by appropriate agencies and stakeholders.

MARINE TRANSPORTATION SYSTEM RECOVERY

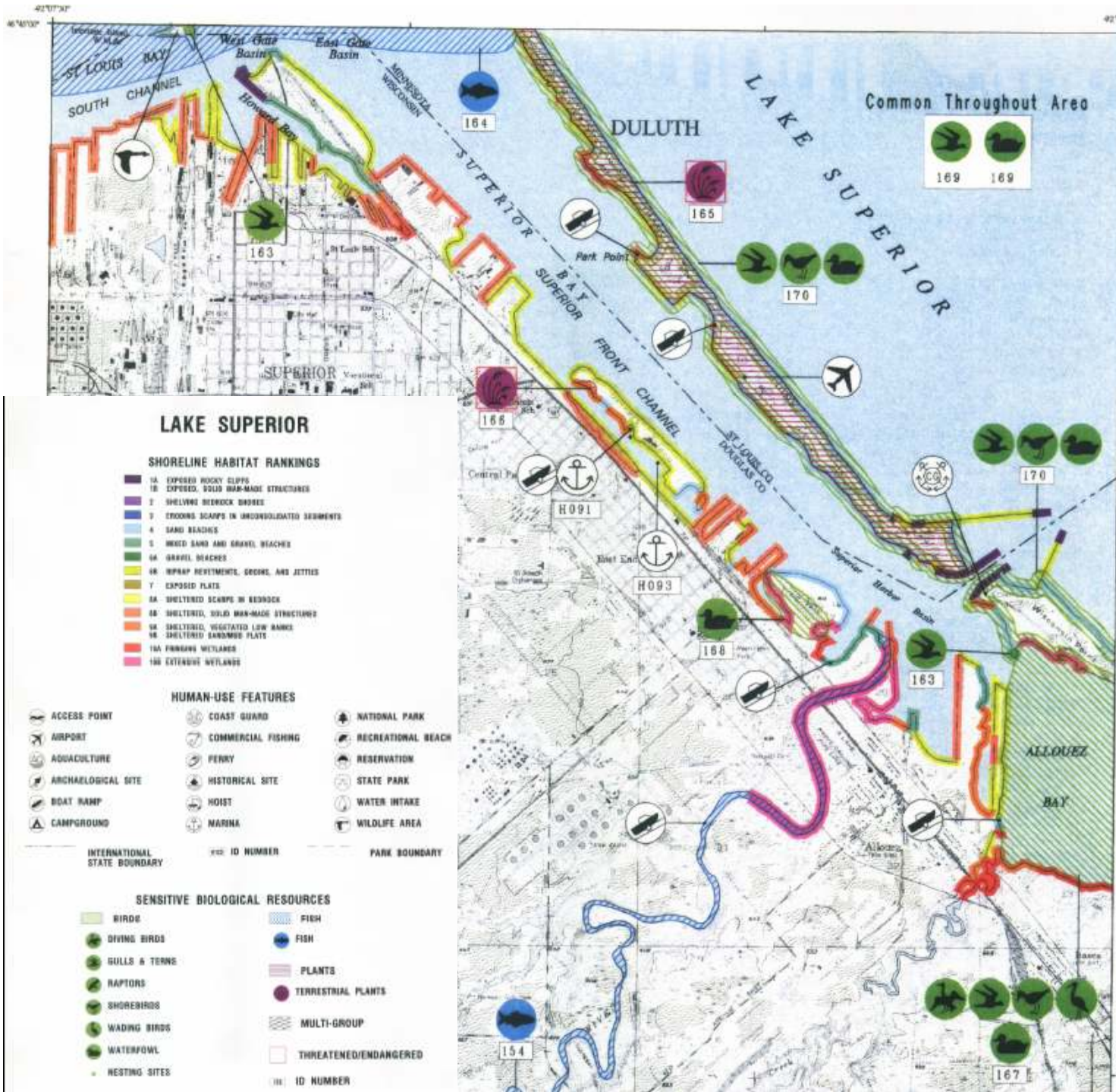
4. Validate the roles, responsibilities and integration of the MTSRU into the unified command structure in order to coordinate and communicate the resumption of trade/marine commerce within the port area.

AMSTEP

1. Interoperable Coms
2. JIC - Info Sharing
3. UC Establishment
4. MTSRU

Interstate Island WMA

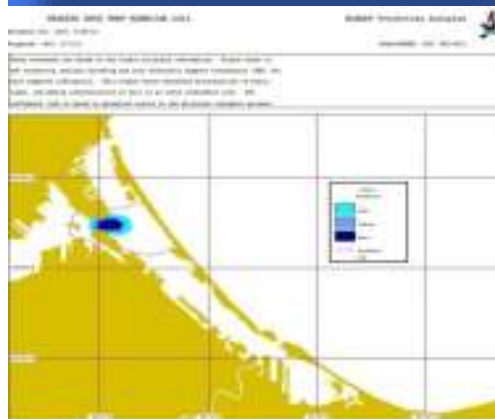
Managed for common tern nesting. Shorebird and waterfowl migration and nesting area.





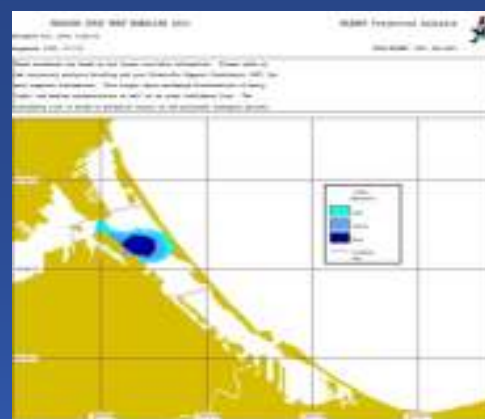
National Oceanic & Atmospheric Administration
Office of Response and Restoration
Emergency Response Division (ERD)

Oil Spill Trajectory



1200 28 Aug 2013

+ 6 hours



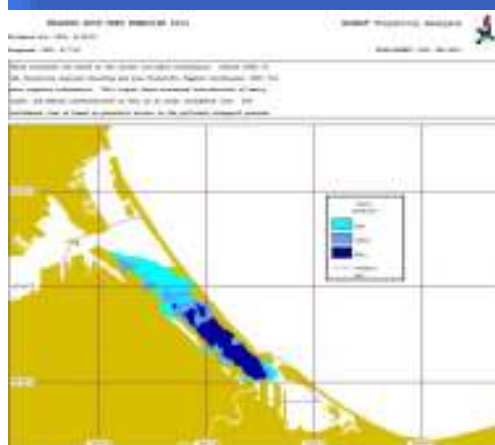
1800 28 Aug 2013

+ 12 hours



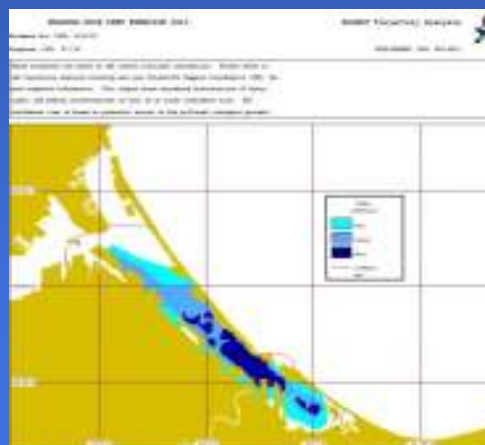
0600 29 Aug 2013

+ 24 hours



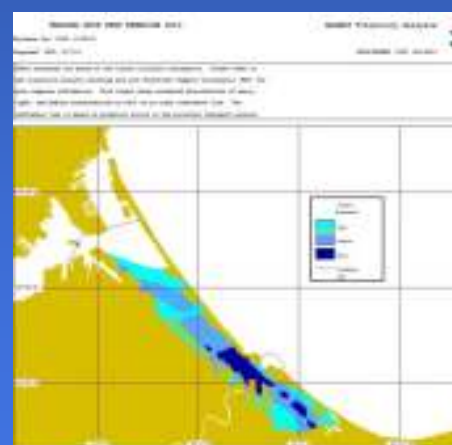
1800 29 Aug 2013

+ 36 hours



0600 30 Aug 2013

+ 48 hours



1800 30 Aug 2013

+ 60 hours

Within ERD...Scientific Support Coordinators are forward deployed...

“Scientific Support Team” is the “home team” in Seattle.

DRILL REQUEST FORM (To be filled out by NOAA SSC)

GENERAL INFORMATION

Name: Mr. Larry DiComenzo Organization: Coast Oligos MSLU Oublin
Address: 600 S. Lake Ave Phone Number: (214) 726-5395 ext. 903
Dobson, TX 75821 Fax Number: (214) 726-5256

By when do you want the information? 15 Aug 2013
(2-week minimum lead-time)

What are the goals of the drill? Identify PREP Guidelines for a Full Scale Area Exercise
Does it matter where the oil goes? Yes. The grounded vessel is on the east side of
and when it gets there, or do you San Jacinto Island. The oil flows out under the Bridge
want to specify winds and let the Bridge and does not break through because they is Allowed
oil go where the winds and But, Superior, WI. Will not penetrate because of Altona
current flow? See. Request here to develop examples and details before report

Is this a tabletop drill? No - This is a PREP Full Scale Exercise

Will equipment be deployed? Yes. Coastguard Boat and COC ALDEX 15003

Will anything be put into the water to simulate the oil? No

Are other trajectory models being used? No

*Note:

If you specify winds and the oil does not go where you want it to go, your request for a new drill scenario may go to the bottom of the queue. If you choose where and when the oil will reach, we will try to adjust the winds and currents so that the model makes this happen. This may require unrealistic winds and currents.



Participating Agencies

Local:

Duluth Fire Dept
Duluth Police Dept
Superior Fire Dept
Superior Police Dept
City of Duluth Public Affairs

**Over 350 Personnel from
Over 50 Agencies/Entities**

Industry/Private:

Duluth Seaway Port Authority
Leech Lake Ambulance
St Luke's Hospital
WLSSD
Duluth-Superior MTSA Facilities
Bay West
Environmental Troubleshooters Inc.
National Response Corporation
OSI Environmental Inc.
West Central Environmental Consultants

County:

Carlton County Emergency Management
Cook County Emergency Management
Lake County Emergency Management
St Louis County Emergency Management
Aitkin County Sheriff's Office
Cook County Sheriff's Office
Itasca County Sheriff's Office
St Louis County Sheriff's Office
Ramsey County Sheriff's Office
Bayfield County Emergency Management
Douglas County Emergency Management
Douglas County Sheriff's Office

Tribal:

Bad River Band of Lake Superior Chippewa

State:

Minnesota Pollution Control Agency
Minnesota DNR
Minnesota Homeland Security & Emergency Management
Minnesota Fusion Center
Minnesota Department of Transportation
Minnesota Sea Grant
Minnesota State Patrol
Wisconsin DNR
Wisconsin Emergency Management
Lake Superior National Estuarine Research Reserve
UW Sea Grant Institute

Federal:

U.S. Army Corps of Engineers
Customs and Border Protection
DHS - TSA
U.S. EPA Reg 5
US Border Patrol
National Response Center
U.S. Coast Guard NSFCC
USCG Atlantic Strike Team/USCG Pacific Strike Team
USCG PIAT
Coast Guard District 9 (dxc) (drm-drat) (dpi)
USCGC ALDER WLB 216
CG Sector SSM
CG MSU Duluth
CG STA Duluth
CG ANT Duluth
NOAA D9 SSC
U.S. Fish and Wildlife Service
USDA APHIS Wildlife Services
R/V KIYI (Dept of Interior USGS)
U.S. Forest Service (USFS)

Exercise Solicitation (Players, Observers, Evaluators, Controllers, & ICS Position)

Agency Level of Participation
FSE Operation Peaking Duck
28-29 Aug 2013

Agency:

1. Please rename this excel sheet with the name of your agency/organization. Once completed save the spreadsheet replacing "AO" in the document name with the name of your agency/organization.

Example:

Document Name: AO_Finalized Level of Participation_Operation Peaking Duck.xlsx changed to MSU Duluth_Finalized Level of Participation_Operation Peaking Duck.xlsx

2. Please insert the names of all participants from you agency/organization that are participating in the USCG MSU Duluth Full-Scale Exercise Operation Peaking Duck.

Insert one name per line and please complete the remaining sections.

Example:

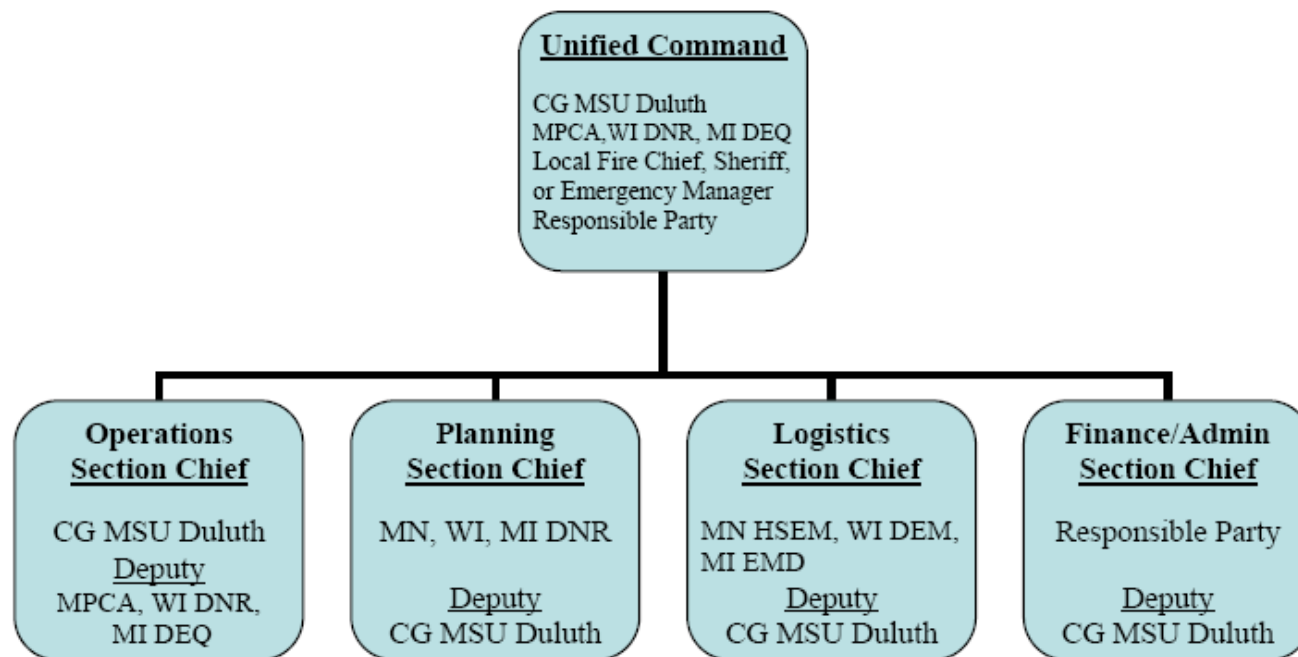
Name of Participant	Cell # of Participant	E-mail of Participant	Parent Agency	Participation Level	Preferred ICS position	Days Available	MISC
Warren LaPlante	218-522-0709	warren.j.laplante@uscg.mil	USCG	Player	Ops Section Chief	Both days	Prefer to work in the ICP

Name of Participant	Cell # of Participant	E-mail of Participant	Parent Agency	Participation Level	Preferred ICS position	Days Available	MISC
1 Karla White	218 232-2516	kwhite@co.aitkin.mn.us	Aitkin Co Sheriff's Office	COML-T	Communications	Both days	Will work where you need me
2 Deborah Deragon		ESCI@badriver-nsn.gov	Bad River Band LS Chippewa	Observer	n/a	Both Days	
3 Lacey Hill		wildlife@badriver-nsn.gov	Bad River Band LS Chippewa	Player	Wildlife Branch	Both Days	
4 Bill Lazarc	(651) 325-5695	williaml@baywest.com	Bay West	Player	Ops (available for IC, if needed)	8/28/2013	
5 Chuck Deye	(651) 592-0167	cdeye@baywest.com	Bay West	Player	Ops	8/28/2013	
6 Brandon Flaada	(651) 341-3271	brandonf@baywest.com	Bay West	Player	Ops	8/28/2013	
7 Brandon Cegelske	(651) 291-0456		Bay West	Player	Ops	8/28/2013	
8 Ryan Thompson	(651) 291-0456		Bay West	Player	Ops	8/28/2013	
9 Killian Condon	(651) 291-0456		Bay West	Player	Ops	8/28/2013	
10 Preston Schnupp	(651) 291-0456		Bay West	Player	Ops	8/28/2013	
1 Jimmy Lyback	(651) 291-0456		Bay West	Player	Ops	8/28/2013	
2 Craig Rebeschke	(651) 291-0456		Bay West	Player	Ops	8/28/2013	
3 Tyler Ziebell	(651) 291-0456		Bay West	Player	Ops	8/28/2013	
4 Jason Braun	(651) 291-0456		Bay West	Player	Ops	8/28/2013	
5 Matt Parins	(651) 291-0456		Bay West	Player	Ops	8/28/2013	

Type	Parent Agency	Preferred ICS Unit/location	Preferred mission	Days available	Misc
USCGC ALDER 225 ft WLB	U.S. Coast Guard	Underway Duluth-Superior Harbor	Oil Spill Response/Recovery	Oil Spill Day 1	Full Crew
??MTSRU Deploy Go-Kit??	USCG	MTSRU	??Test Kit??	any/all??	VHF-AIS w/ Chart Plotter
4-ATV's	CBP/OBP	LE Patrol Group	LE Patrol	Both days	
4x4 Vehicles	CBP/OBP	LE Patrol Group	LE Patrol	Both days	
Command Post	St. County Emergency Manag	Communications/EM	Communications/EM	both	4
MACC	HSEM	Offsite	State SEOC support	August 28-29	Mobile Unit
27 ft response boat	MN DNR Enf.	LE Patrol Group	LE Patrol	Both days	Full crew-3
23 ft response boat	MN DNR Enf.	LE Patrol Group	LE Patrol	Both days	Full crew-2
3 boats 19-24 ft	SPD/SFD	Rescue or LE Group	Dive rescue/recovery	Day 1	
18 Ft Response Boat	NRC	Contain/Recovery Grp	Boom Deployment	Day 1	Full Crew - 2
4000' 18" Boom	NRC	Contain/Recovery Grp	Boom Deployment	Day 1	Full Crew - 3

Unified Command Incident Management Team

FIGURE 2130.2 – UNIFIED COMMAND AND GENERAL STAFF STRUCTURE



Note: The 2006 “Kitchi Gummi Guardian” full-scale exercise’s lessons learned strongly recommended to fill the UC’s General Staff positions with assisting agency personnel, as identified in figure 2120.2 above.

2000 - 10
Western Lake Superior Area Contingency Plan
December 2011

Unified Commanders

Duluth FD
Superior FD
WI DNR
MPCA
CG MSU
ST Louis Co Sheriff
CBP

OPS Section Chief

CG MSU (Chief)
WI DNR (Deputy)
MPCA (Deputy)

PLNG Section

MPCA (Chief)
WI DNR (Deputy)
CG MSU (Deputy)

LOGS Section

Superior FD (Chief)
CG MSU (Day 2)

Command Staff:

PIO – WI DNR;
SOFR – MN DNR;
LOFR – MPCA;
INTEL – CG MSU

MSEL - SIMCELL - 201 - PISCES

MSEL - Master Scenario Events List

REAL WORLD DTG	EVENT TYPE	INJECT MODE	SEND TO (SUB)	DESCRIPTION	EXPECTED ACTION	ACTION TAKEN	RESPONSIBLE CONTROLLER	SUBJECT	SEND FROM	SEND FROM (SUB)	SEND TO
6:00 AM	Contingency Inject Vessel Strikes Blatnik Bridge	Radio		Conduct interoperability check	Implement appropriate patches		Comms Controller	Comms	COMML		ICP
6:15 AM		Phone		Report of allision at Blatnik Bridge				Pilot			Coast Guard
6:30 AM		Phone			MSU notifies Station to investigate with smallboat			Ships Agent			Coast Guard
7:00 AM	Inject	Radio		Broadcast Notice to Mariners				MSU Duluth			All Mariners
7:00 AM	Inject	Phone		Notifications of allision and possible spill				MSU Duluth			State Agencies
7:00 AM	Inject	Phone		Notifications of allision and possible spill				MN State Duty Officer			State Agencies
7:00 AM	Inject	Phone		Onboard				WI State Duty Officer			State Agencies

SIMCELL



PISCES Operators



Warm Start - ICS 201 (Notifications)

1. Incident Name: M/V SALTIE COO Grounding (Operation Peeking Duck) (Barkley)

2. Prepared by: JHAC/IC Date: 26 Aug 2013 Time: 0745 INCIDENT BRIEFING ICS 201-00

3. Initial Response Objectives, Current Actions, Planned Actions

Initial Response Objectives:

1. Safety of Crew, Responders and Public
2. Conduct Incident Assessment (Determine Oil Spill, Channel Blockage)
3. Complete Agency, Stakeholders, and Trustee Notifications
4. Establish a Unified Command

Current Actions:

Response agencies have been notified to report to the Incident Command Post at Barkley's Island. Superior, WI, Coast Guard MSU Duluth Casualty Investigation Unit Peeking Duck, Verde Sea Vessel.

Planned Actions:

Establish a Unified Command at Barkley's Island. Secure the source of the leaking oil. Determine potential sensitive areas and route. Track and ensure safety of mariners in Keep all Agency, Stakeholders, and Trustee

1. Incident Name: M/V SALTIE COO Grounding (Operation Peeking Duck) (Barkley)

2. Prepared by: JHAC/IC Date: 26 Aug 2013 Time: 0745 INCIDENT BRIEFING ICS 201-00

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Planned Actions:

Establish a Unified Command at Barkley's Island. Secure the source of the leaking oil. Determine potential sensitive areas and route. Track and ensure safety of mariners in Keep all Agency, Stakeholders, and Trustee

PISCES -Simulation and Control tool designed to coordinate large-scale oil spill response exercises for the US Coast Guard.

Operation Peeking Duck Pre-Stage 27 Aug 2013

6 Command & Control/Coms Vehicles

(MN HSEM, WI DEM, STLC, Duluth PD, Doug County, USDA-APHIS Wildlife Services)



PREP Evaluators

1. Notifications:

Mr. John Sager, WI DNR
Mr. Larry DiDomenico, CG MSU

2. UC Establishment

Ms. Doreen Fier-Tucker, MPCA
Mr. Tom Romaine, MN DNR
Mr. William Ferenczy, CGD 9

3. Wildlife Branch Establishment

Ms. Tami Ryan, WI DNR
Mr. Jason Suckow, USDA-APHIS Wildlife Services
Mr. Patrick Collins, MN DNR (Sim Cell Controller)
Mr. Scott Binko, CGD 9

4. NRDAR

Ms. Annette Trowbridge, USFWS
Mr. Scott Binko, CGD 9

5. Equipment Deployment

Mr. Jim Stockinger, MPCA
Mr. John Sager, WI DNR
Chief Michael Presti, CG AST (SORS)
MST1 James Moore, CG AST



Players Brief – Prior to STARTEX



STARTEX - ICP Operations



Planning Section

PLNG Section

SITL

RESL

PLANNING SECTION CHIEF
Dave Morrison, MPCA
Deputy Jon Dale, LT MSU
Deputy Erin Endsley, WI DNR



Planning Section Environmental Unit

ENVIRONMENTAL UNIT LEADER
LCDR Jay Lomnicky, NOAA

ENVL



Resources at Risk for Peaking Duck PREP Exercise, Lake Superior, Duluth, Minnesota

I. Spill Source Information

This report was prepared at 1500 EDT on 12 June 2013. Information presented in this report is based on the PREP exercise scenario that a vessel (V-1) will be involved in a spill on the Minnesota/Wisconsin state line in Lake Superior August 2013.

II. Geographic Region Covered

This report covers the mouth of St. Louis Bay, Allouez Bay, Nemadji River and associated channels. The spill location is not necessarily correspond to actual or potential spill location information.

III. Expected Behavior of the Spilled Material

IFO 380 oil has an API of 14.2, which means large differences among heavy fuel oils in spilled as summarized below:

- Heavy fuel oils are produced by blend specifications for viscosity and pour point.
- When spilled on water, heavy fuel oil will large amounts of oil. Oil recovery by oil particularly early in the spill.
- Very little of these viscous oils is likely to streamers or, under strong wind condition.
- They considered persistent oils, only 5-10% a spill. Thus, spilled oil can be carried for a long time.
- The specific gravity of a particular fuel oil. This IFO-380 has a specific gravity of 0.9.
- Heavy fuel oil can be very viscous and is the surface rather than penetrate sedimenting at the high-water line, heavy accumulation of oil may result in sublethal and lethal impacts to the vegetation muddy and soft it is important to prevent excessive sediment by foot traffic during cleanup activities, as term impacts to the marshes.
- Sheltered, vegetated low banks, serve as important accumulations of oil might produce a "boil" ring accumulation of oil would result in heavily coated vegetated low banks may result in sublethal and lethal impacts to the vegetation muddy and soft it is important to prevent excessive sediment by foot traffic during cleanup activities, as term impacts to the marshes.
- Solid man-made structures are likely impermeable along the water line under light oil accumulation conditions, under heavy oil accumulation conditions or other porous, man-made structures, be difficult to clean.
- On sand or mixed sand and gravel beaches oil is exposed water line. Highly viscous oils are not likely to penetrate surface where it may smother shoreline organisms, including shorebirds.
- Adverse effects of floating heavy fuel oil on the water surface, smothering of vegetation, heavy fuel oil is not a threat to aquatic life. They can coat these aromatics are the high molecular weight.

- Direct mortality rates can be high for diving birds, waterfowl, and air-breathing mammals, especially where populations are concentrated in small areas, such as during bird migrations.
- Direct mortality rates are generally less for shorebirds because they rarely enter the water. Shorebirds, which feed along shoreline habitats where oil strands and periwinkles, are at higher risk of sublethal effects from either contaminated or reduced population of prey.
- The most important factors determining the impacts of heavy fuel oil contamination on marshes are the extent of oiling on the vegetation and the degree of sediment contamination from the spill or disturbance from the cleanup. Many plants can survive partial oiling, fewer survive when all or most of the above-ground vegetation is coated with heavy oil. However, unless the substrate is heavily oiled, the roots often survive and the plant can re-grow.

III. Shoreline Resources at Risk

The shorelines of St. Louis Bay and Superior Bay are sheltered, vegetated low banks, sand beaches, mine man-made structures, and exposed man-made structures primarily of freshwater marshes, sheltered, vegetated beaches, and riprap.

Sensitivity of Shoreline Types

The most sensitive habitats in the area are freshwater marshes, which are important for migrating waterfowl. Very viscous oil that in light accumulations can leave water mark. Heavy accumulations can heavily coat marsh soils, causing soil contamination, and be very oiled, sublethal and lethal impacts to the vegetation muddy and soft it is important to prevent excessive sediment by foot traffic during cleanup activities, as term impacts to the marshes.

Sheltered, vegetated low banks, serve as important accumulations of oil might produce a "boil" ring accumulation of oil would result in heavily coated vegetated low banks may result in sublethal and lethal impacts to the vegetation muddy and soft it is important to prevent excessive sediment by foot traffic during cleanup activities, as term impacts to the marshes.

Solid man-made structures are likely impermeable along the water line under light oil accumulation conditions, under heavy oil accumulation conditions or other porous, man-made structures, be difficult to clean.

On sand or mixed sand and gravel beaches oil is exposed water line. Highly viscous oils are not likely to penetrate surface where it may smother shoreline organisms, including shorebirds.

IV. Biological Resources at Risk

Threatened, Endangered, and Special Concern (T.E.B.)

T.E. Birds

Piping plovers (endangered federal [Great Lakes population] and state endangered in WI and MN) are present, with Redwings, along the open sand and gravel beaches of Superior Bay and Allouez Bay. Peregrine falcons (state endangered in WI) can also be found throughout the spill area. The following state endangered birds in Wisconsin are present within the affected area: snowy egret, Cinnamon teal, Greater yellowlegs, and common tern. State threatened and species of special concern (WT and MN) present within the affected area include the great egret (WT), trumpeter swan (MN), bald eagle (MN), American white pelican (MN), and Franklin's gull (MN).

T.E. Fish

Lake sturgeon (Minnesota species of special concern) are present throughout the potential area of impact.

T.E. Reptiles

Bluntnose shiners (state threatened, MN and WI) are present throughout the potential area of impact.

T.E. Plants

Grass-of-Parnassus is a state threatened (WT) plant that is found along the western shore of Superior Bay and is associated with sheltered, vegetated low bank shorelines of Barker's Island.

Other Birds

Raptors, including: osprey, northern harrier, sharp-shinned hawk, Cooper's hawk, northern goshawk, broad-winged hawk, red-tailed hawk, golden eagle, American kestrel, and merlin are all possible within the affected area starting in mid-August. There are approximately 20 species of shorebirds and wading birds present along the potential impact area. Concentrations occur in lower Superior Bay and Allouez Bay, and include sandpipers, plovers, herons, and grebes. Diving birds and waterfowl are present throughout the year, and include: cormorants, mergansers, American coot, ring-necked duck, mallard, wood duck, ruddy duck, and Canada goose. Gulls are present throughout the potential impact area.

Diving birds, such as cormorants, and diving ducks (e.g., mergansers) are usually at high risk during oil spills because they spend nearly all their time on the water surface. Wading birds, shorebirds, dabbling ducks, gulls, and terns, can also be severely impacted by oil in some cases. Wading birds and some shorebirds may be directly oiled and can become oiled on the upper body and feathers by coming in contact with oiled vegetation or wrack. Direct oiling of birds reduces the buoyancy, water repellency, and insulation provided by feathers, and may result in death by drowning or hypothermia. Preening of oiled feathers may also result in ingestion of oil resulting in irritation, sickness, or death. Bird oiling may continue even after the floating oil slicks have been removed, depending on the extent of oiled habitat. Oil brought back to the nests by adult birds may kill or injure eggs and young birds.

Other Fish

The following fish species are present in Superior Bay and environs: alewife, brown trout, carp, lake herring, northern pike, rock bass, smallmouth bass, walleye and yellow perch. The following fish species are present in Allouez Bay: alewife, American eel, black crappie, bluegill, channel catfish, largemouth bass, mottled sculpin, muskellunge, pink salmon (spawning), rock bass, and white perch.

PLANNING

Environmental Unit Leader	Name:	Agency:
Environmental Unit	LCDR John (Jay) Lomnicky	NOAA - SSC
	Ms. Elisa Buttermore	USFWS
	Ms. Sarah Warner	USFWS
	Ms. Betsy Galbraith	USFWS
	Mr. Steve LeValley (Disposal SME)	WI DNR
	Ms. Martha Minchak	MN DNR
	Mr. Kevin Woizeschke	MN DNR
	Mr. Jim Stockinger (Day 2 only)	MPCA

ICP Operations – Safety Officer

ICS 215A – IAP Safety Analysis

SAFETY

Safety Officer	Name: Mr. Eric Goslovich	Agency: MN DNR
Assistant Safety Officers	Ms. Lisa Yantachka Mr. Mike Marturano MSTI Derek Franklin	MPCA St Luke's Hospital CG MSU Duluth



MTSRU



PIO Briefing UC

Unified Commanders



INCIDENT COMMAND

FOSC

CDR Alan Moore, CG MSU
LCDR Ben Gates, MSU

SOSC

Steve Leppala, MPCA
Phil Richard, WI DNR

LOSC

Chief John Strongitharm, DFD
Chief Steve Panger, SFD

Unified Commander Briefings

Unified Command



NRDAR Brief to Unified Commanders

Natural Resources Damage Assessment and Restoration

NRDAR REPS.

Dave Warburton, USFW
Marilyn Danks, MN DNR
Kevin Faus, MPCA
Jason Lowery, WI DNR



NRDAR

NRDAR Reps: USFWS, MPCA, WI DNR, MN DNR

Law Enforcement Group



LE Group



LAW ENFORCEMENT SUPERVISOR
Scott Camps, St Louis County SO

Ops Section Chief Briefing Unified Command (Tactics Mtg)



OPERATIONS SECTION CHIEF
LT Judson Coleman, MSU Duluth
Deputy Walt Haas, MPCA
Deputy Brian Knepper, WI DNR

Resource Request Message

ICS-213 RR CG (05/06)

1. Incident Name: <i>Peeking Duck</i>			2. Date/Time: <i>8/28/13</i>			3. Resource Request No:			
4. ORDER Note: Use additional forms when requesting different resource sources of supply									
a. Qty.	b. Kind	c. Type	d. Detailed item description (Vital characteristics, brand, specs, experience, etc. & if applicable describe purpose/use, attach diagrams, & other amplifying info)				e. Requested Reporting Location:	f. ETA (LSC):	g. Cost (FSC):
1	Facility								
5. Suggested source(s) of Supply									
6. Requested by Name/F									
<i>Chris Balz</i>									
9. Check box if re									
Submit to RESL, c									
11. Logistics Order No.:									
13. Notes:									
<i>N 5 15 ST</i>									
14. Approval Signature o									
16. Order placed by (che									
17. Reply/Comments fro									
18. Finance Section Sign									

1. Incident Name: <i>Peeking Duck</i>			2. Date/Time: <i>8/29/13 9:30am</i>			3. Resource Request No:			
4. ORDER Note: Use additional forms when requesting different resource sources of supply									
a. Qty.	b. Kind	c. Type	d. Detailed item description (Vital characteristics, brand, specs, experience, etc. & if applicable describe purpose/use, attach diagrams, & other amplifying info)				e. Requested Reporting Location:	f. ETA (LSC):	g. Cost (FSC):
10			<i>Tarps 20x30</i>				<i>Barker Isl.</i>	<i>8/29/13 10:00am</i>	
30	<i>plastic</i>		<i>Kennels x large</i>						
10			<i>Cardboard boxes 2x2</i>						
3			<i>Easy up (Sun Shades) ^{or arch tent} 100x100</i>						
30	<i>case</i>		<i>Dawn Dish Soap (blue, etc basic)</i>						
30	<i>ind.</i>		<i>Rubbermaid tubs 10gal</i>						
1			<i>refrigerator unit; portable walk-in</i>						
			<i>refrigerator unit for carcasses</i>						
5. Suggested source(s) of Supply - POC phone no. if known & suitable substitutes:									
<i>Walmart or Sam's</i>									
6. Requested by Name/Position/Phone:									
<i>Mandy Gier / Wildlife Rehab / 608-291-6503</i>									
7. Date/Time:			8. Section Chief Approval:			Date/Time:			
<i>8/29/13 9:40am</i>			<i>[Signature]</i>			<i>8-29-13 1011</i>			
9. Check box if request is for tactical/personnel resources & Submit to RESL, otherwise submit directly to Logistics									
10. RESL Review/Signature:									
Resources as noted are Available Resources Not Available									
11. Logistics Order No.:									
12. Supplier Name/Phone/Fax/Email:									
13. Notes:									
<i>will be delivered by 1500 on 8/29/13</i>									
14. Approval Signature of Auth Logistics Rep:									
<i>[Signature]</i>									
15. Date/Time:									
<i>8/29/13 11:00am</i>									
16. Order placed by (check box):									
<input checked="" type="checkbox"/> SPUL <input type="checkbox"/> PROC									
17. Reply/Comments from Finance:									
18. Finance Section Signature:									
19. Date/Time:									

Full Instructions on back page. Requestor fills out # 1-9 & keeps yellow copy (bottom). If applicable, RESL reviews if resource available & signs # 10. Logistics fills in remainder of # 4 & # 10-15 & keeps pink copy. Finance, if needed fills out appropriate items & keeps green copy. Blue original is returned to RESL for tactical/personnel or requestor for non-tactical. White copy goes to DOCL.

Joint Information Center (JIC)

JIC



Joint Information Center (JIC)

PIO	Name:	Agency:
APIO	Mr. Kevin Harter Ms. Anne Moore	WI DNR MPCA
Assistant Information Officers/Staff	LT William (Bill) Fitzgerald	CG MSU Duluth
	Ms. Amy Norris	City of Duluth
	Mr. Drew Digby	Carlton County
	Ms. Marie Zhuikov	UW Sea Grant Institute
	Ms. Karen Lynn Anderson	WLSSD
	Ms. Cheri Mae Zeppelin	MN DNR
	Ms. Kristina Ann Reichenbach	USFS
	Ms. Beth Petrowske	MN DOT
	Ms. Carol Bannerman	USDA Wildlife Services
	Ms. Dana Kazel	St Louis County
	PA3 Christopher Yaw	CGD NINE
	Mr. Justin Calelle	MN DOT
	Mr. Andy Lisak	Douglas County
	Ms. Linda Bruce	UW Extension Supervisor
	Ms. Rami Gill	City of Superior

Unified Command Press Brief



Exercise ICS Job Coaches



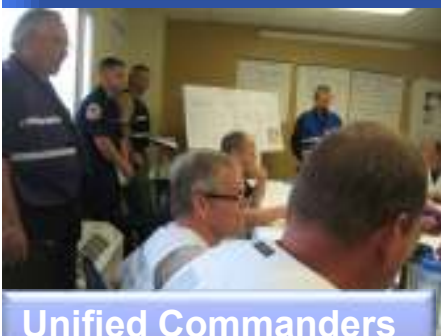
PLNG-OPS
Mr. Mangoni, CGD 9



SITL-RESL
MST1 Carreon, CG AST



MTSRU
Mr. Wasco, CGD 9



Unified Commanders
LCDR Witt, CG PST



SORS
BMC Presti, CG AST



JIC
CWO Smith, CG PIAT



PLNG-OPS:
Mr. Mangoni, CGD 9



SAFETY:
Mr. Binko, CGD 9



OPS
LT LaMorte, CG AST

CG Exercise Support Team



Exercise Support Branch
Washington
Force Readiness Command
U.S. Coast Guard
2100 2nd Street SW Stop 7361
Washington, DC 20593-7361
202-372-2144 (office)

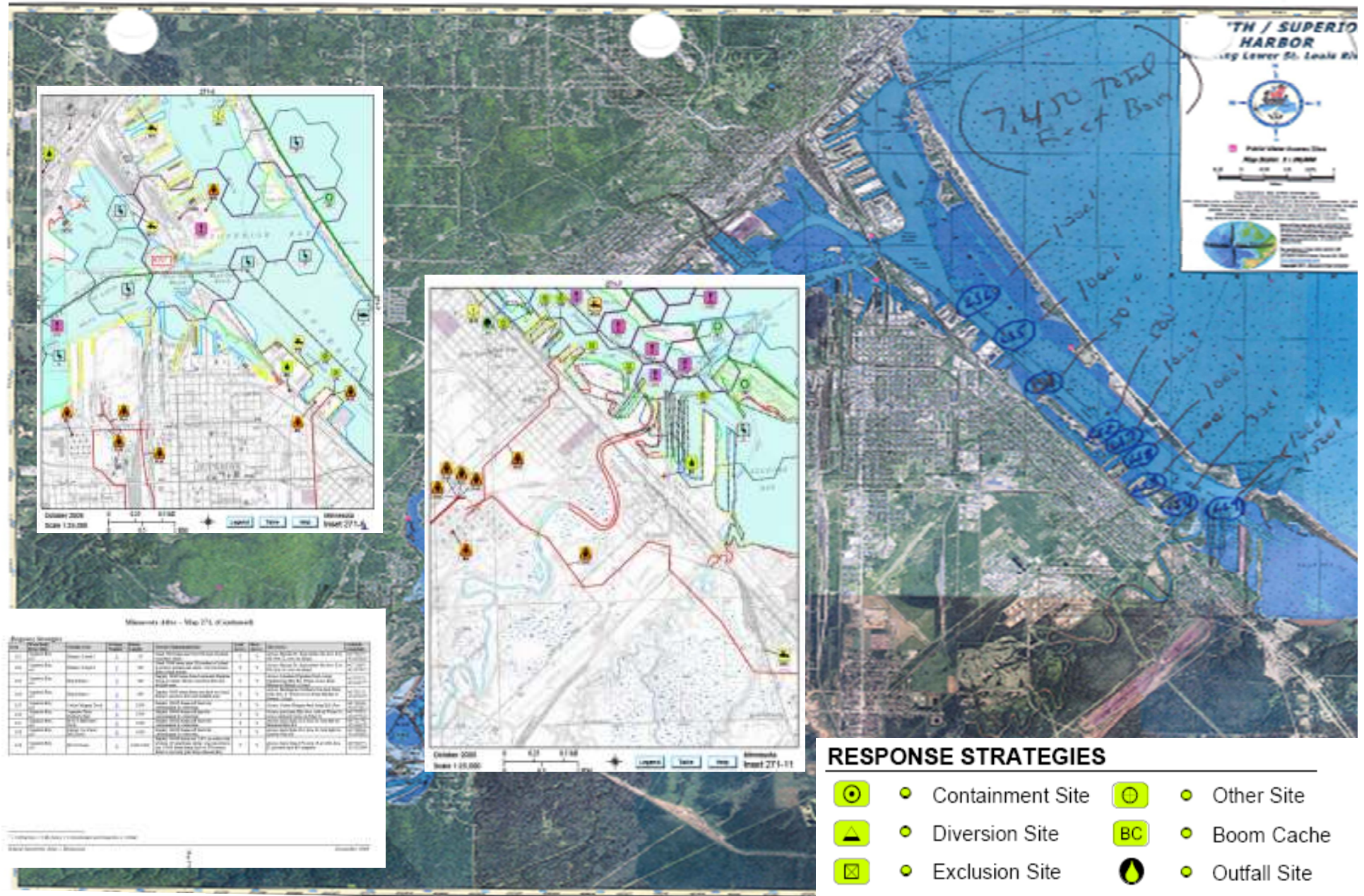


Ops Section Discussing Booming Strategies

OPS Section



WLS ACP Booming Strategies in EPA ISA



Boom/Equipment Deployment



OSI Environmental, Inc.



WCEC



Operation Peeking Duck Field Ops



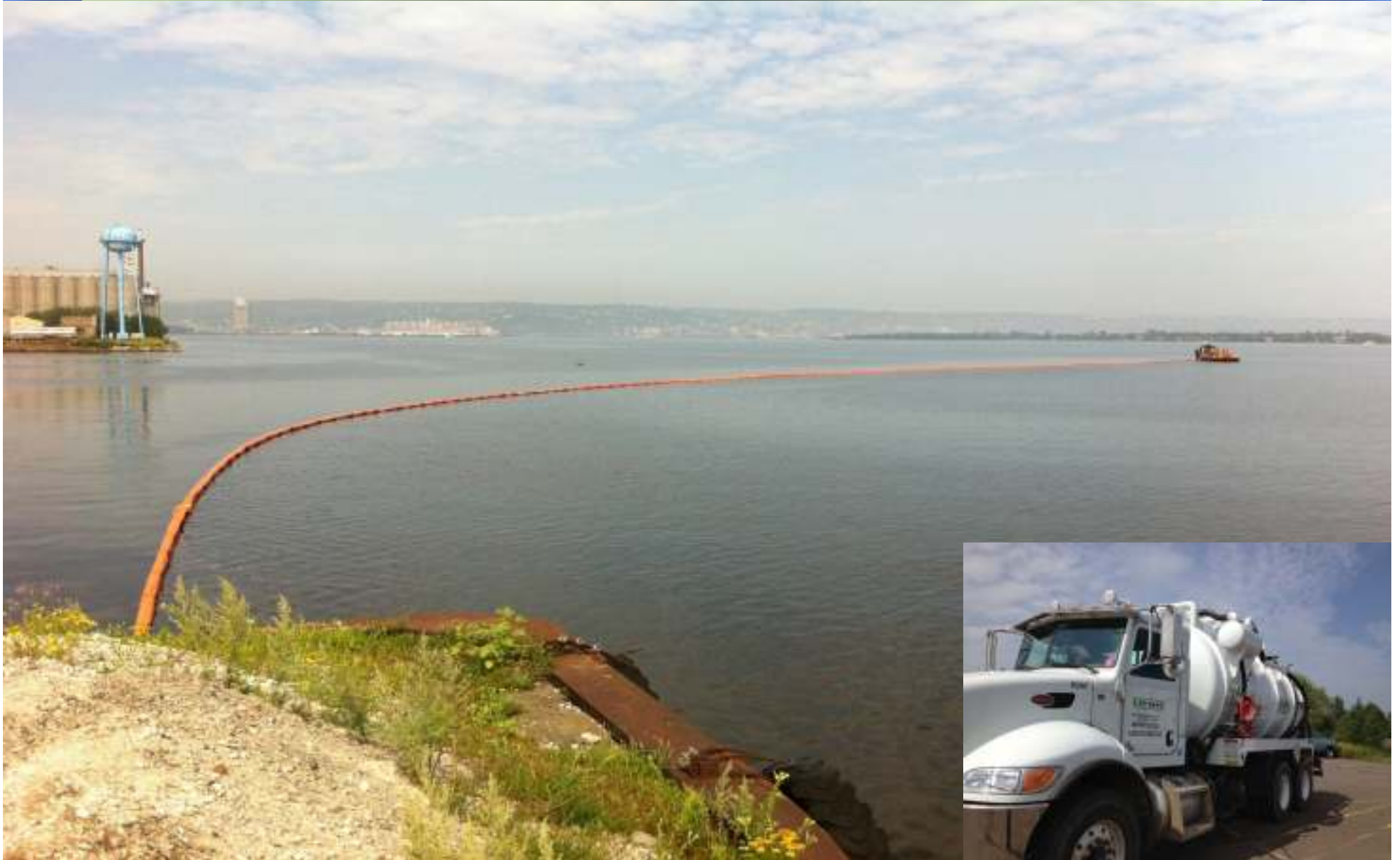
Equipment Deployment Operations



Equipment Deployment Operations



Equipment Deployment Operations



Equipment Deployment Operations



Equipment Deployment Operations



Equipment Deployment Operations



Equipment Deployment Operations



Equipment Deployment Operations



Equipment Deployment Operations



MN DNR Invasive Species Decon Station Rice's Point



M/V SALTIE DOG & CG 49' (ATON)



Port Remains Open to Commerce



USCGC ALDER SORS being Deployed

Spilled Oil Recovery System (SORS)

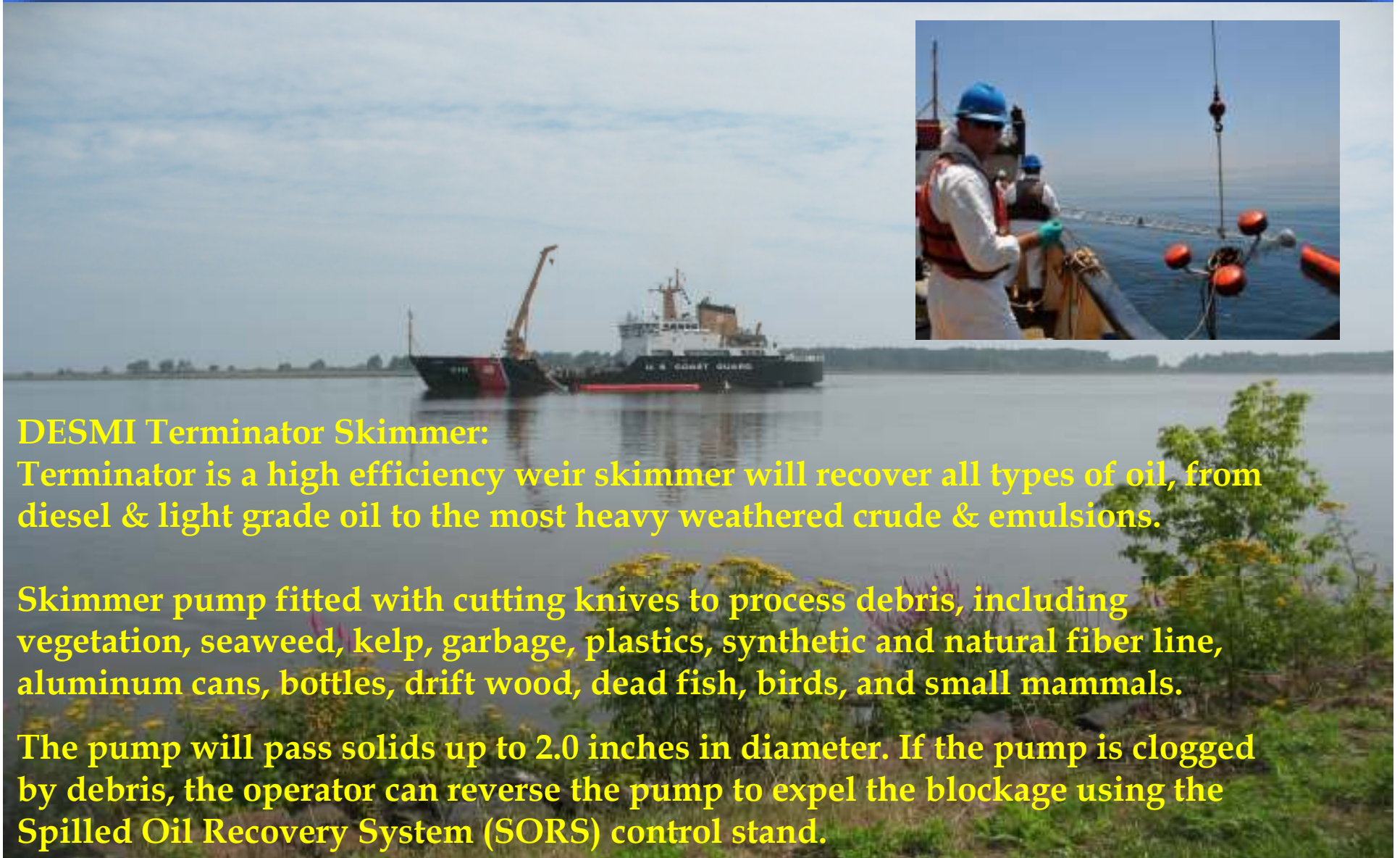


225-foot, Juniper Class Seagoing
(multi-mission) Buoy Tender
46' Beam
13' Draft
15 kts
Range: 6K miles at 12 knots

NRS2.ppt



CGC ALDER SORS



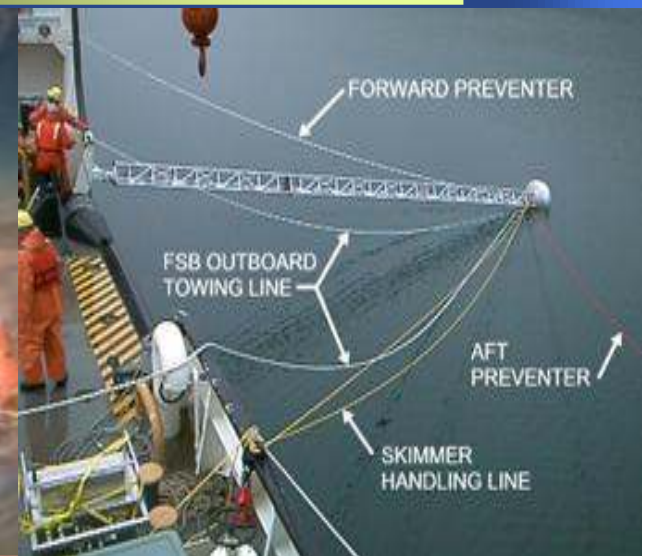
DESMI Terminator Skimmer:

Terminator is a high efficiency weir skimmer will recover all types of oil, from diesel & light grade oil to the most heavy weathered crude & emulsions.

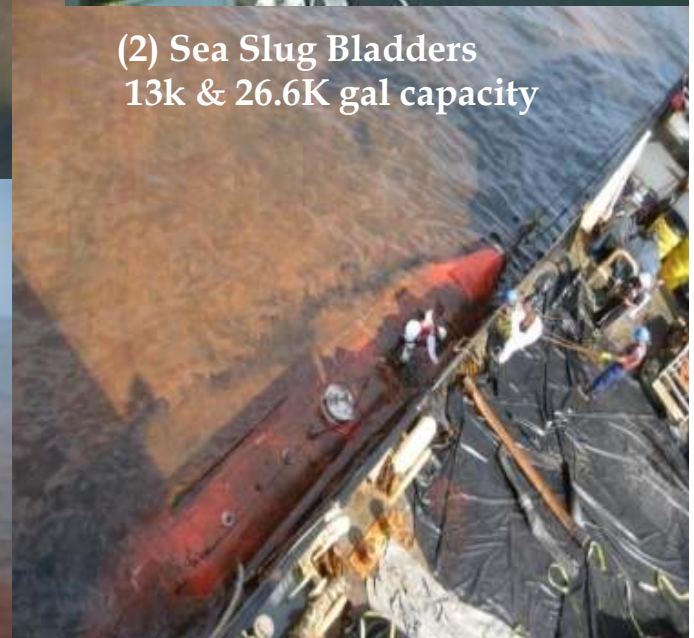
Skimmer pump fitted with cutting knives to process debris, including vegetation, seaweed, kelp, garbage, plastics, synthetic and natural fiber line, aluminum cans, bottles, drift wood, dead fish, birds, and small mammals.

The pump will pass solids up to 2.0 inches in diameter. If the pump is clogged by debris, the operator can reverse the pump to expel the blockage using the Spilled Oil Recovery System (SORS) control stand.

CGC ALDER SORS



(2) Sea Slug Bladders
13k & 26.6K gal capacity



Mobile Comms - Command Posts





Interoperable Coms test...mobile coms trailers used as Repeaters - LE dispatched in UC...also used to Bridge coms between 800 MHz (MN), WISCOM (WI) & Marine Band (VHF) to monitor field coms.

Wildlife Branch Mobile Coms and Rehab Station



Wildlife Field Reconnaissance Form -- Shoreline or On Water Observations (Adapted from USFWS Best Management Practices Manual)

Page 1 of 1

1. Incident Name: Peking Duck

2. Observation Team: Elissa Buttermore, Steven Krueger, Tim White Page 1 of 1

3. Date: 8/28/13 ④ Time Start: 1355

5. Time End: 1500 - Rehab center

6. Segment Name: Interstate Island MN/WI

7. Segment No.: _____

8. Survey Length: _____ ft. 9. Survey Width: _____ ft 10. Latitude: _____ N 11. Longitude: _____

12. Survey Mode: Foot ☐ Vehicle ☐ Boat ☒ Airplane ☐ Helicopter ☐ 13. River Stage Data at Start of Survey: _____ ft.

14. Weather: Partly cloudy 15. Wind Speed: _____ 16. Visibility: ☐ <0.1 mi. ☒ 0.5 mi. ☐ 1.0 mi. ☐ >1.0 mi. ☐

(Describe Briefly)

17. Round Trip Mileage: _____ (miles) 18. Round Trip Driving Time: _____ (hours) 19. Trip Prep Time: _____ (hours)

[illegible]

Wildlife Branch Mobile Coms and Rehab Sta



Wildlife Branch Ops



Wildlife Branch Ops

GENERAL MESSAGE

TO: Chris Balzar, Resource
FROM: CAROL BANNERMAN, JIC
SUBJECT: Info Request.
POSITION:
POSITION: PIO ASST.
DATE: 8-29 10:40

MESSAGE:

Nature Conservancy via MN DNR is requesting # of birds collected yesterday and the Bird Protection Plan. Request came via wis wildlife vet. Lyndsey on your team. First answer would be zero. Do you have an answer for the latter.

SIGNATURE/POSITION

REPLY The number of birds collected yesterday were 16* live oiled birds and 4 dead oiled birds. In regards to a bird protection plan, currently to protect more avian species, ~~from~~ from getting oiled, we are hazing known contaminated sites. We are also removing oiled carcasses from being used as a food source for species such as Bald Eagles and Turkey Vultures.
* Species: 2 ring-billed gull, 6 cormorants, 5 mallards, 3 wood duck (3 dead cormorants + 1 mallard)

DATE: 8/29/13
TIME: 11:05
SIGNATURE/POSITION: Lyndsey J. Long

213 ICS 1/79
NFES 1336

PERSON RECEIVING GENERAL MESSAGE KEEPS THIS COPY

Operation Peeking Duck Waterside Resources



Maritime Security Ops



Operation Peeking Duck Lighting Storm ENDEX



FOSC Closing Remarks

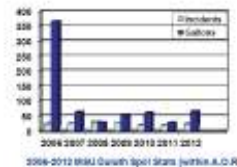


U.S. Coast Guard Marine Safety Unit Duluth Spill Stats

2012 Spill Stats – COTP Duluth zone:

24 Reported Spill Incidents;
64 Total Gallons Discharged;
2.6 Gallons per Spill;
25 Gallons - Single Largest Oil Spill;
 Vessels Account For: **48%**
 Facilities Account For: **6%**
 Other than Vsls or Facs (i.e. vehicles): **25%**
 Mystery Spills Account For: **21%**

Western Lake Superior Spill Stats



Seven Year Totals:

Total Spills: 166
7 yr Avg Spill: 3.9 gallons/spill

Last 3-year avg: **2.5 gallons/spill**
 Last 2-year avg: **2.2 gallons/spill**
 Last year's avg: **2.6 gallons/spill**

MSU Duluth 7-Year Coastal Zone Spill History

	2006	2007	2008	2009	2010	2011	2012
<i>Total Cases</i>	24	25	30	27	18	18	24
<i>Total gallons spilled</i>	365	61	26.5	54	59.5	27	64
<i>Vessel Cases</i>	8	12	20	11	11	9	8
<i>Total gallons spilled</i>	20	26	23	25	31	18	46
<i>Facility Cases</i>	3	0	2	0	1	3	1
<i>Total gallons spilled</i>	10	0	2	0	25	4	.5
<i>Other than Vsl or Fac Cases</i>	7	9	5	8	2	4	7
<i>Total gallons spilled</i>	329	33	1.5	20	1.5	4	2.5
<i>Unknown Source Cases</i>	6	4	3	8	4	1	8
<i>Total gallons spilled</i>	6	2	0	9	2	1	15

Note: The total gallons spilled category is the actual or estimated amount into a navigable waterway.

Questions / Comments...

Coast Guard MSU Duluth
600 S. Lake Ave
Duluth, MN 55802

(218) 720 5286



Thank you ...



Operation Peeking Duck Background



PRELIMINARY Peaking Duck trajectory v1.mpeg