



Department of  
Environmental  
Conservation

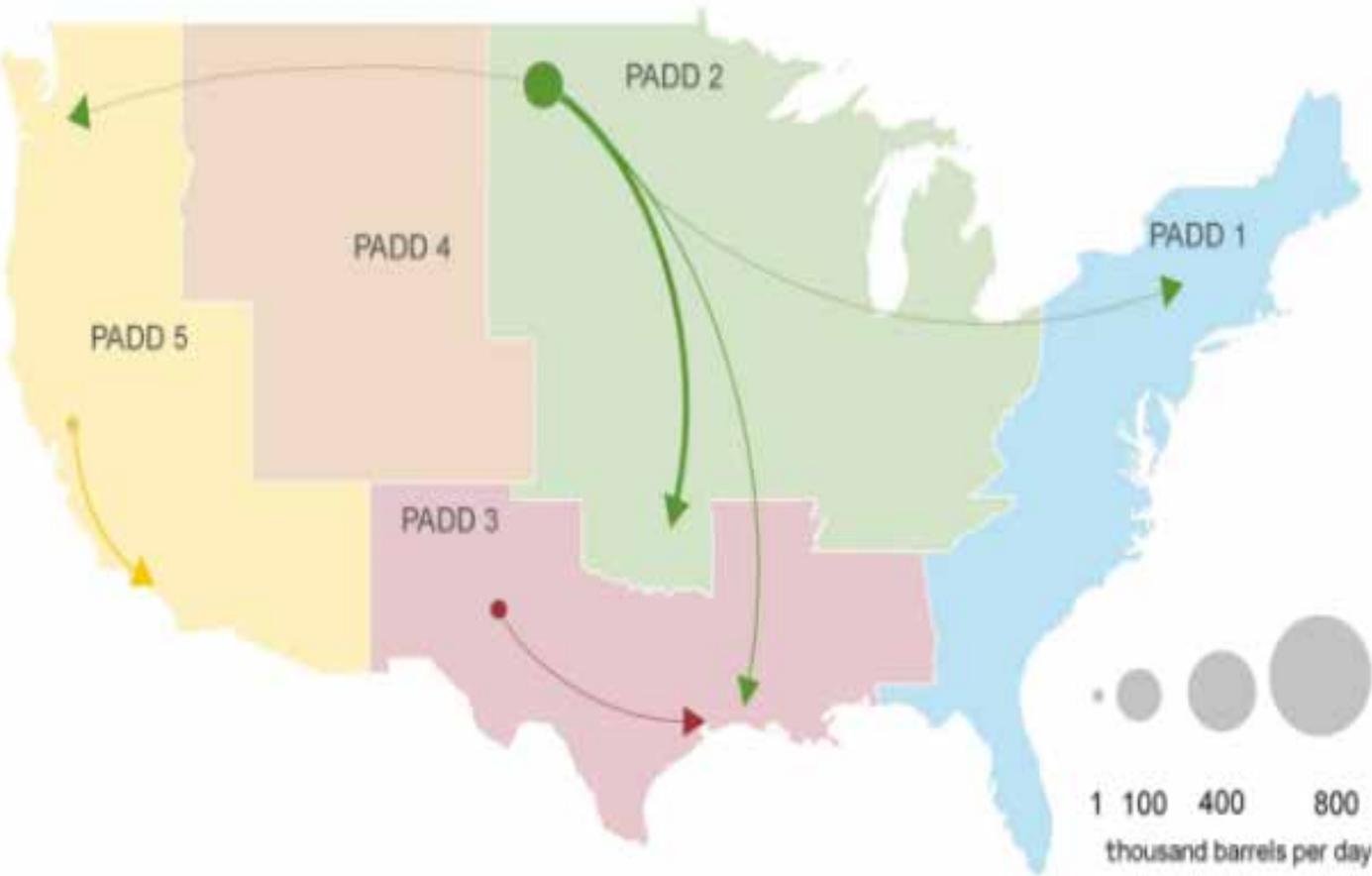
# New York State Crude Oil Spill Inland GRP Update

October 13, 2016

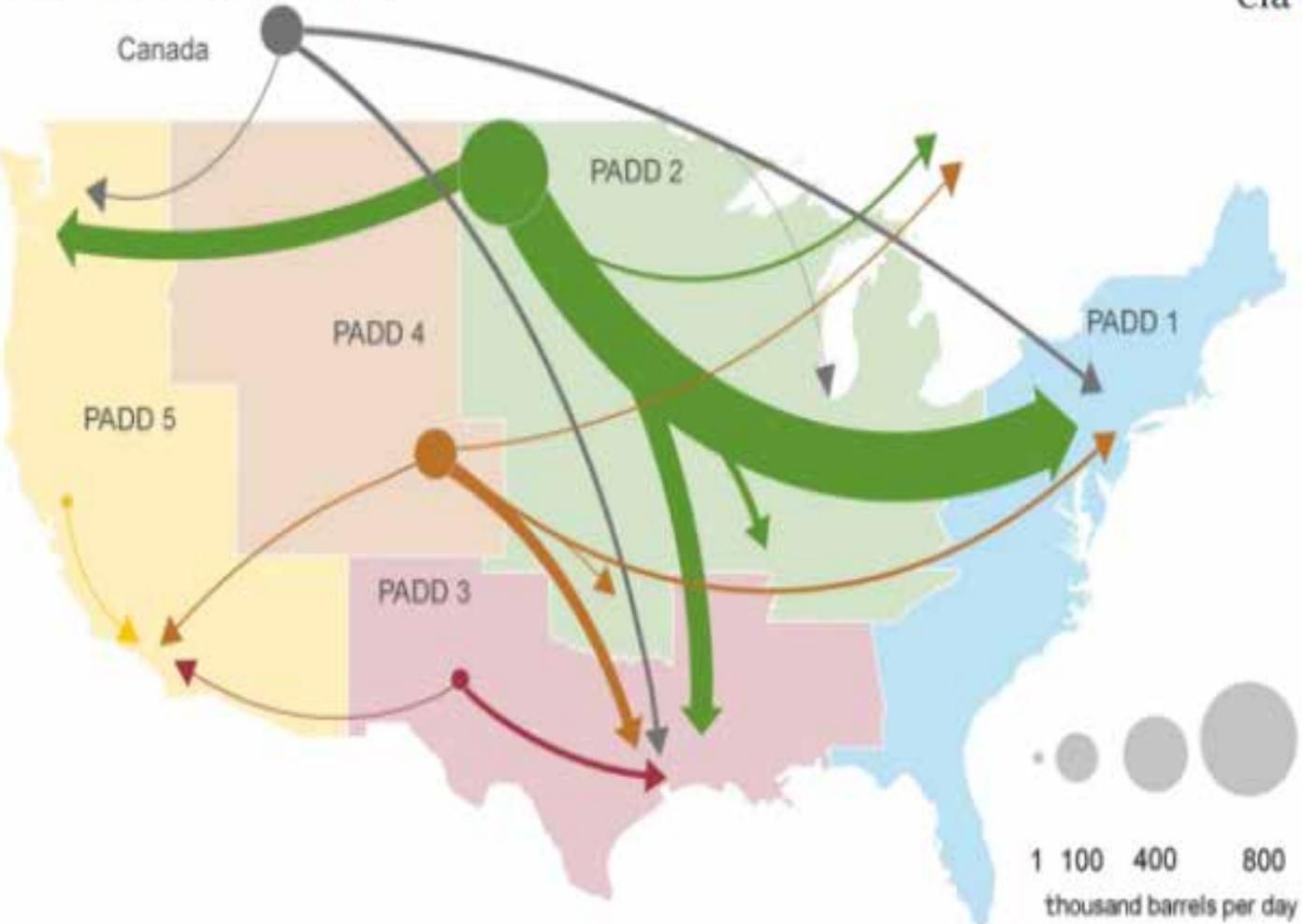
# Crude-by-rail movements (2010)



Canada



# Crude-by-rail movements (2014)



In response to this large increase in crude-by-rail traffic, the Governor of New York issued Executive Order 125 directing state agencies to strengthen the state's preparedness for incidents involving crude oil transportation. New York State's (NYS) Department of Environmental Conservation (DEC), in collaboration with the Department of Homeland Security & Emergency Services and Department of Health, are leading a multi-stakeholder effort to develop Inland GRPs for the 21 NYS counties currently impacted by crude-by-rail transportation.

# New York State's Inland Geographic Response Plans

Brought to you by.....

Kirsten Anderson<sup>1</sup>, Thomas Festa<sup>2</sup>, Dennis Farrar<sup>3</sup>, Kyle Kolwaite<sup>4</sup>, Scott Stanton<sup>4</sup>, Peter Alberti<sup>4</sup>, Logan Reid<sup>4</sup>, Rob Schrader<sup>5</sup>, Jason Maddox<sup>5</sup>, V. Lyle Trumbull<sup>4</sup>

<sup>1</sup>NYS Dept. of Environmental Conservation, <sup>2</sup>NYS Dept. of Transportation, <sup>3</sup>HGA, <sup>4</sup>OBG, <sup>5</sup>Gallagher Marine Systems

# GRP Development

A tiered approach was used to develop NYS GRPs:

**Tier 1:** County steering committees were established consisting primarily of local first response agencies, as well as their state and federal partners. Utilizing Sensitive Resource Maps developed by NYSDEC, coupled with local steering committee input, location-specific response plans were identified.

# GRP Development

A tiered approach was used to develop NYS GRPs:

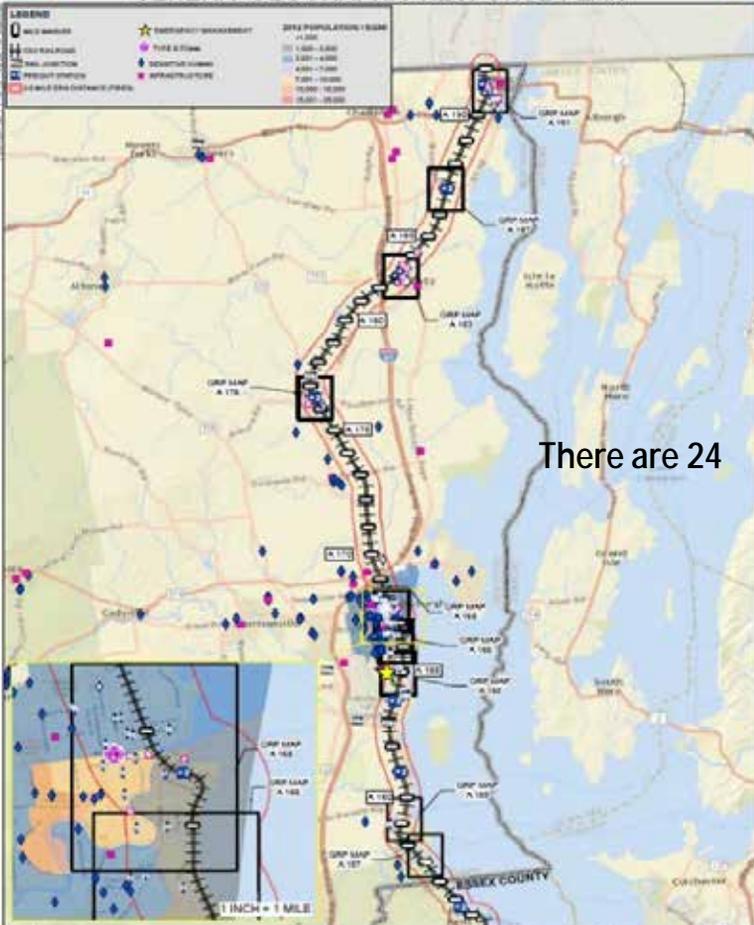
**Tier 2:** Location-specific response plans were drafted, reviewed by the NYSDEC and steering committees and set as final working “evergreen” documents, which are open for update/refinement at any time in the future.

# Priorities for Protection

- Sensitive Human Populations
- Environmentally Sensitive Areas
- Critical Infrastructure



# CLINTON COUNTY GENERIC GEOGRAPHIC RESPONSE PLAN



There are 24

# There are 24 GGRPs for the entire state.



1 INCH = 4 MILES



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## Site-specific GRP (many/county)

The Site-specific GRPs are the highest resolution response plans. In addition to sensitive environmental resources and booming strategies, these plans identify the locations of sensitive human receptors (e.g., schools, daycare centers, assisted living centers, etc.), critical infrastructure, and fire suppression assets.



The backside of the GRP provides a general checklist of response considerations, a list of agency and industry notification numbers, the address for fire suppression resources, and phone numbers for each sensitive receptor facility within 0.5 miles of the tracks.

## Railroad Mile CP A 168 – Plattsburgh, Clinton Co.

Location: City of Plattsburgh, Clinton County  
 Coverage Area: North Plattsburgh  
 Railroad Mile Markers: CP A 166.64 to CP A 166.88

CONTACT ALL NUMBERS BELOW	
Local Fire & Police	911
National Response Center (EPA)	(800) 424-8802
DEC Spill Response	(800) 457-7362
Canadian Pacific Railroad	(800) 716-9132
Clinton Co Emergency Mgt.	(518) 565-4792
State Watch Center	(518) 292-2200

- FIRE/EXPLOSION:**
- IDENTIFY PRODUCT(S).
  - NOTIFY POTENTIAL RECEPTORS AND RESPONSE CONTACTS. REQUEST STATE WATCH CENTER TO MOBILIZE FOAM ASSETS.
  - EVAUATE 1/2 MILE.
  - IF MORE THAN 3 CASES ON FIRE, EVAUATE RESPONDERS AND LET IT BURN.
  - IF 3 OR FEWER CASES INVOLVED, DOES FIRE THREATEN POPULATIONS OR CRITICAL INFRASTRUCTURE?
  - IF SO, FIGHT FIRE USING FOAM AND WATER. ADDITIONAL FOAM FROM STATE WATCH CENTER. UTILIZE HIGH VOLUME DRAFT POINTS IF POSSIBLE.
  - IF NOT, LET IT BURN. APPLY COOLING WATER TO ADJACENT CARS VIA UNMANNED MONITORS
  - CONSIDER RUNOFF CONTROL MEASURES TO MINIMIZE HEALTH AND ENVIRONMENTAL IMPACTS.

- SPILL/LEAK:**
- IDENTIFY PRODUCT(S).
  - VAPORS— FLAMMABLE OR TOXIC? APPLY FOAM SUPPRESSION?
  - SAFELY REMOVE POTENTIAL IGNITION SOURCES.
  - NOTIFY RECEPTOR CONTACTS—1,000 FEET DOWNWIND. EVACUATE OR SHELTER IN PLACE AS NECESSARY.
  - NOTIFY RESPONSE CONTACTS, RAILROAD AND/OR NYSDEC MOBILIZE SPILL RESPONSE ASSETS.
  - EVALUATE FLOW PATH(S). PREVENT FLOW INTO SEWERS/WATERWAYS WITH BOOM/DIKE/BERM.
  - IF SPILL REACHES WATERWAYS, NOTIFY DOWNSTREAM RECEPTORS AND DEPLOY BOOM WHERE POSSIBLE.

- DERAILMENT/ACCIDENT (NO OBVIOUS FIRE OR LEAK)**
- IDENTIFY PRODUCT(S).
  - NOTIFY RESPONSE CONTACTS.
  - REMOVE POTENTIAL IGNITION SOURCES.
  - ESTABLISH SECURE PERIMETER.

**GEOGRAPHIC ACCESS**  
 I-87 skirts the west side of the City. Exit 39 serves Cumberland Head and Plattsburgh City Beach, exit 38S serves the north end of the City, exit 37 serves downtown and central Plattsburgh, exit 36 serves southern Plattsburgh and the airport, and exit 35 serves the south end of Plattsburgh and Peru.

**RAILROAD ACCESS**  
 Various secondary roads are located near the railroad, with nine crossings (seven north of the Saranac River and two south of the river).

**NOTIFICATION AND EVACUATION**

**DOWNWIND CONSIDERATIONS:**

- Bailey Avenue Elementary School: 518-563-2410
- Oak Street Elementary: 518-563-4950
- Seton Academy: 518-825-7306
- Stafford Middle School: 518-563-6800
- North Country Center for Independence: 518-563-9058
- Project Connect: Stephen Guenzi - 518-564-4071
- Little Saints Preschool: Wendy Briggs - 518-563-5651
- Helping Hands: Kate Calkins - 518-561-4361
- Little Angels: Cassandra Parrish - 518-961-3951
- YMCA of Plattsburgh and Y We Care: Elizabeth Stork-Ruffv - 518-561-4290
- Susie's Daycare: Susan St. John - 518-310-1499
- Circle of Friends: Monique Worley - 518-561-4471
- Ruthie's Place: Ruth Guilbo - 518-563-2292
- CVPH Medical Center: 518-561-2000
- 75 Beekman St, Plattsburgh NY 12903

**DOWNSTREAM CONSIDERATIONS**

- City of Plattsburgh Administrative Contacts:
  - City Highway Dept: 518-563-1120
  - City Engineer: 518-563-7730
  - WWTP: 518-561-7172

**FIRE SUPPRESSION**

- Local Foam Resources/High Volume Foam Trailer : Plattsburgh Fire Department - 65 Cornelia Street, Plattsburgh NY 12901

**WATER RESPONSE STRATEGIES**

- Boom: Boom can be deployed from shoreline access points to protect sensitive shoreline areas in Cumberland Bay, and the Boat Basin marina south of the Saranac mouth. Shoreline access points on the GRP map are near roadways and could be used for recovery as well as boom deployment. Boats would be needed to tend the seaward ends of boom deployed from shore.
- Lake Champlain: Wilcox Dock (-73° 26' 22.56", 44° 42' 21.2")
- Saranac River: Mouth of Lake Champlain (-73° 26' 43.96", 44° 41' 59.64")
- Lake Champlain: Wisconsin St Park (-73° 26' 31.92", 44° 41' 27.98")
- Wilcox Dock: 9 Cumberland Ave, Plattsburgh NY 12901
- City Marina and Boat Launch: 2 Dock St, Plattsburgh NY 12901
- Dock Street Boat Launch: 4 Dock St, Plattsburgh NY 12901
- Peru State Launch: 3938 Rt 9, Plattsburgh NY 12901
- Port Kent Boat Launch: 1 NY-373, Port Kent, NY 12975
- Port Douglass State Launch: 48 Schuyler Rd, Keeseville NY 12944

**ICP / STAGING**

- Clinton County Sheriff's Office
  - 25 McCarthy Dr, Plattsburgh NY 12901
- Plattsburgh City Beach
  - 1 Beach Rd, Plattsburgh NY 12901
- Wilcox Dock
  - 90 Cumberland Ave, Plattsburgh NY 12901
- Durkee Street Public Parking Lot
  - 14 Durkee St, Plattsburgh NY 12901
- City Marina and Boat Launch
  - 2 Dock St, Plattsburgh NY 12901
- Dock Street Boat Launch
  - 4 Dock St, Plattsburgh NY 12901

**BERMING RESOURCES**

- Department of Public Works: 518-563-1120 or 518-563-6841

**SITE AND SEASONAL CONSIDERATIONS**

- Spills that migrate into the river and/or lake should be controlled and collected using boom and skimmers in open water. Primary and secondary water intakes should be protected. Contact City Engineer for intake location(s).
- Notify NYSDEC Spill Hotline for any wildlife impacts.

# Example of back of GRP - Notifications and Actions

Propane    Acetone    Ethanol    Diesel/Fuel Oil    Gasoline    Petroleum Crude    Toluene    Xylene

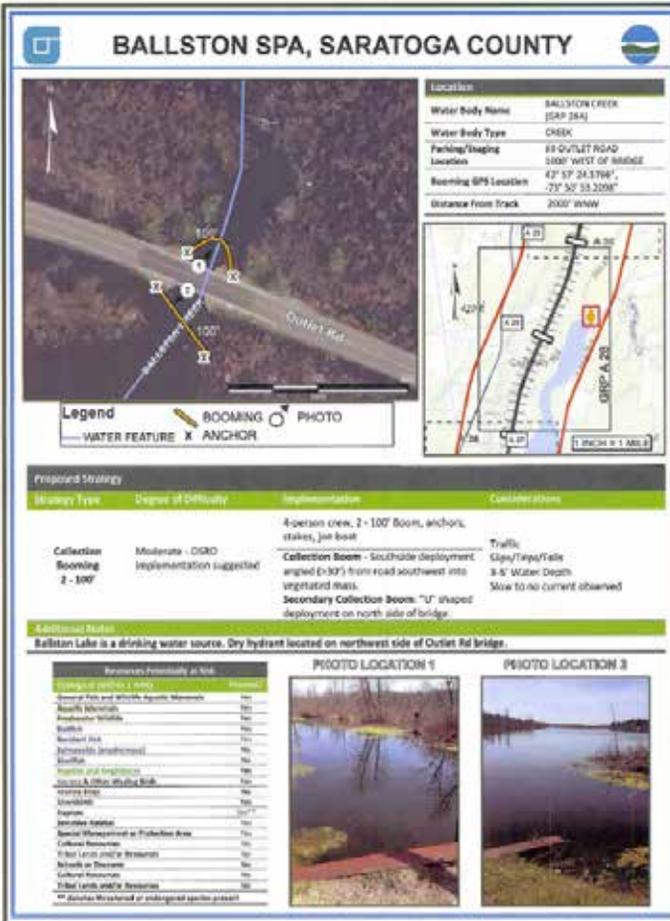
Emergency Response Guidance

1075    1090    1170    1202    1203    1267    1294    1307

Strategic and Tactical Guidance for Rail Involving Crude Oil

# Response Strategy

To date, **523** booming opportunities have been identified and **352** have been field-verified





# BALLSTON SPA, SARATOGA COUNTY



## Legend

-  BOOMING
-  PHOTO
-  WATER FEATURE
-  ANCHOR

## Location

Water Body Name	BALLSTON CREEK (GRP 28A)
Water Body Type	CREEK
Parking/Staging Location	69 OUTLET ROAD 1000' WEST OF BRIDGE
Booming GPS Location	42° 57' 24.5766", -73° 50' 53.2098"
Distance From Track	2000' WNW



## Proposed Strategy

Strategy Type	Degree of Difficulty	Implementation	Considerations
Collection Booming 2 - 100'	Moderate - OSRO implementation suggested	4-person crew, 2 - 100' Boom, anchors, stakes, jon boat  <b>Collection Boom</b> - Southside deployment angled (>30°) from road southwest into vegetated mass. <b>Secondary Collection Boom:</b> "U" shaped deployment on north side of bridge.	Traffic Slips/Trips/Falls 3-5' Water Depth Slow to no current observed

## Additional Notes

Ballston Lake is a drinking water source. Dry hydrant located on northwest side of Outlet Rd bridge.

### Resources Potentially at Risk

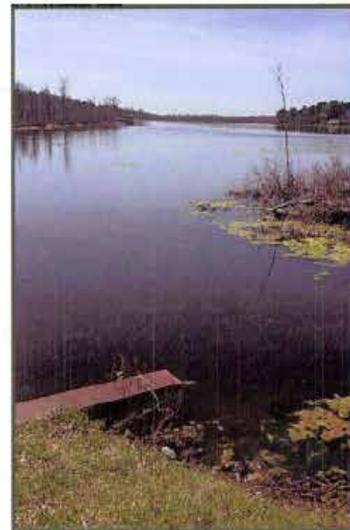
Ecological (within 1 mile)	Present?
General Fish and Wildlife Aquatic Mammals	Yes
Aquatic Mammals	Yes
Freshwater Wildlife	Yes
Baitfish	Yes
Resident Fish	Yes
Salmonoids (anadromous)	No
Shellfish	No
Reptiles and Amphibians	Yes
Hérons & Other Wading Birds	Yes
Marine Birds	No
Shorebirds	Yes
Raptors	Yes**
Sensitive Habitat	Yes
Special Management or Protection Area	Yes
Cultural Resources	No
Tribal Lands and/or Resources	No
Schools or Daycares	No
Cultural Resources	No
Tribal Lands and/or Resources	No

\*\* denotes threatened or endangered species present

### PHOTO LOCATION 1



### PHOTO LOCATION 2



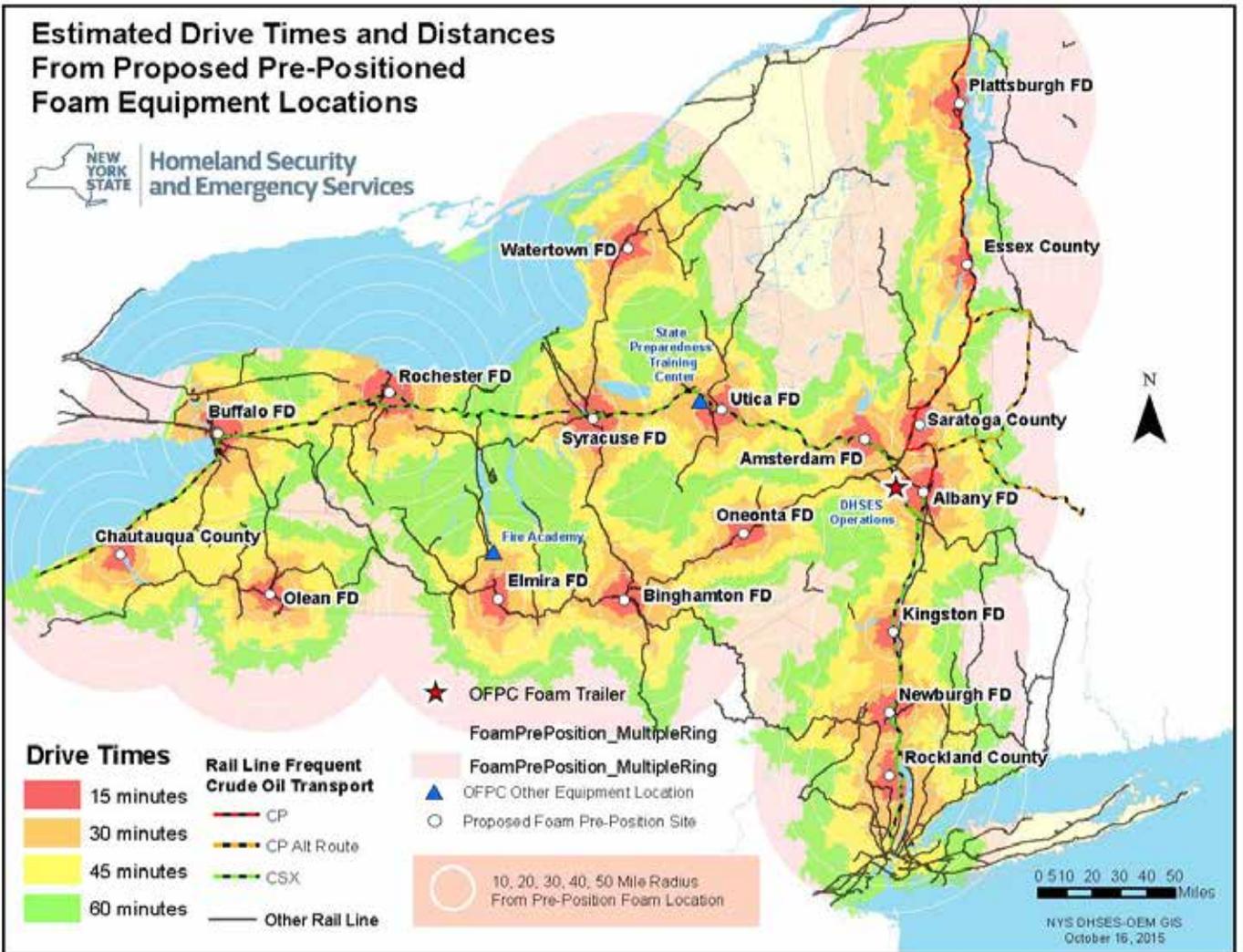
# Initial Response Equipment



# Estimated Drive Times and Distances From Proposed Pre-Positioned Foam Equipment Locations



Homeland Security  
and Emergency Services





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# Thank You

Kevin Hale, Chief  
Emergency Response Coordination  
NYS Department of Environmental Conservation

Email: [Kevin.Hale@dec.ny.gov](mailto:Kevin.Hale@dec.ny.gov)

Phone – 518-402-9583

Cell – 518-281-7347

24 Hour DEC Dispatch – 800-457-7362