OBG PRESENTS:

Crude by Rail – New York State’s Inland Geographic Response Plans

A Complete GIS Solution in partnership with the NYSDEC
Advanced Manufacturing

Energy

Environment

Water

Comprehensive, integrated solutions
<table>
<thead>
<tr>
<th>Productivity &amp; process improvements</th>
<th>Planning &amp; resiliency</th>
<th>Remediation</th>
<th>Water supply &amp; treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repurposing &amp; restructuring</td>
<td>Microgrids &amp; storage</td>
<td>Sediment</td>
<td>Wastewater treatment</td>
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<tr>
<td>Technology scale-up</td>
<td>Utilities &amp; infrastructure</td>
<td>Water</td>
<td>Wet infrastructure</td>
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Why GRPs Now?

30,000 Gallons/Car \times 100 \text{ Cars} = 3 \text{ Million Gallons}

"Unit" Trains = Single Commodity

Source: Mouawad, 2014b
CSX Track Length = 489 Miles

Within ½ Mile:

- 1464 Schools & Daycares
- 269 Public Water Supply Points
- 1,278 Water Wells
- 7,846 Wetlands
- 1,358 Streams
- 98 Rare / Unique Habitats
What are GRPs?

Geographic Response Plans (GRPs) are map-based, location-specific contingency plans:

- Completed for all 21 crude-by-rail counties
- Greater focus on potential impacts to humans
- Three types (General, Site-Specific, Site-Specific Strategy)
- Notification & Physical Action Strategies
- Valuable planning tool for the first 24 hours and beyond
Site-Specific GRP
Site-Specific GRP: A Closer Look
### Site-Specific GRP – Backside

#### RAILROAD ACCESS

- **Primary access route:** From the west, take I-80 to exit 296, left onto NY-169, and right onto NY-55 E. From the east, take I-90 to exit 29, farm right on E Main St, right on Church St, and left on W Grand St (NY-5).
- **Alternative access route:** Co Rd 55 runs east/west and provides access south of the track. From Co Rd 55, turn north on Sanders Rd, left on River Rd, and right on Bridge St into St. Johnsville.

#### FIRE/EXPLOSION:

<table>
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<th>Action</th>
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<tr>
<td>EXPLOSION SITE</td>
<td>- NOTIFY POTENTIAL RECEPTORS AND RESPONSE CONTACTS.</td>
</tr>
<tr>
<td>INHIBIT SCORCH AREA</td>
<td>- IF FIRE THREATENS POPULATIONS OR CRITICAL INFRASTRUCTURE, INHIBIT SCORCH AREA.</td>
</tr>
<tr>
<td>AVOID DANGER ZONE</td>
<td>- IF FIRE THREATENS POPULATIONS OR CRITICAL INFRASTRUCTURE, AVOID DANGER ZONE.</td>
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#### SPILL/LEAK:

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<td>IDENTIFY PRODUCT</td>
<td>- NOTIFY RESPONSE CONTACTS, REMOVE POTENTIAL IGNITION SOURCES.</td>
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<tr>
<td>EVALUATE CONTAINMENT EFFORTS</td>
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<td>NOTIFY RECEPTORS</td>
<td>- EVALUATE CONTAINMENT EFFORTS.</td>
</tr>
<tr>
<td>EVALUATE FLOW PATTERNS</td>
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<td>EXTINGUISH FIRE</td>
<td>- EXTINGUISH FIRE.</td>
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#### DERMAL/ACCIDENT (NO OBVIOUS FIRE OR LEAK):

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#### DOWNSTREAM CONSIDERATIONS

- **St. Johnsville Water Plant:** 518-568-2455
- **NF Canal Corporation (Fonda Section):** 518-853-3123
- **Village water supply well is located within the geographic area.**

#### SITE AND SEASONAL CONSIDERATIONS

- Village of St. Johnsville DPW has fuel storage at the facility. The St. Johnsville Central School District can be contacted in addition to the school (518-568-7824).
- Electrical substations are located along track at Hough St.
- Waterbodies may be frozen during winter months.
- Notify NYDEC Spill Hotline (800-457-7362) for any wildlife impacts.
Booming Opportunity
Infrastructure for Field Activities

ArcGIS Online
• Data Access/Sharing
• Collaboration
• Templates

ArcGIS Server
• In-House
• Web Enables GIS

OBG Servers
• SQL Server
• Network Drives
• GIS Maps & Data
Site-Specific Strategies – Collector for ArcGIS
Site-Specific Strategy – Data Driven Pages
All text and pictures are data driven from the Collector App and Geoprocessing functions.
NYSDEC GRP Online Viewer
NYSDEC GRP Online Viewer
QUESTIONS
Thank You

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