

# **BNSF Galena Derailment Response:** *How it Played Out & Lessons Learned*



# Outline

**1) Chuck Pedersen, Director, Jo Daviess County EMA**

*Initial Response*

**2) Brian Brackemyer, Manager of Field Operations, IEMA**

*Build Up*

**3) Paul Ruesch, On Scene Coordinator, USEPA**

*Recovery/Remediation*



# Galena

- Jo Daviess County is in the far NW corner of IL
- The City of Galena population = 3600
- Over 90% of buildings on Historic Register
- Over 1 million visitors/year
- At time of derailment, Galena had largest number of crude oil unit trains ( $\geq 100$  tank cars) passing through county than any other county (55 trains/wk, 3m gallons/train)
- All volunteer FD (44)

# Incident

At approximately 1:25pm on March 5, 2015, 21 tank cars of a 105-car BNSF Railways train derailed near MP171.6 of the Aurora Sub in Jo Daviess County near Galena.

A fire resulted, involving cars which carried crude oil. Local, County, State, Federal and Railroad personnel responded to manage the event, focusing on:

- Life safety
- Incident stabilization
- Protection of the environment

# Dispatch Message

- At 1:46 pm, County Dispatch messages that Galena Fire & Haz Mat Team needed at Ferry Landing Crossing
- Train Derailment, 5 cars down, white puffy smoke
- First truck & Chief Randy Beadle arrive
- I arrive minutes later
- Temp ~ +10F

**WHERE IS  
THE TRAIN?**

# Initial Assessment & Attempt

- Re-staged to city park
- Sent team to find derailment location
- 3 mile drive on bike path to scene
- Identified 9 cars down, 21 derailed, oil leaking
- Firemen attempt to put out fire, at first they are succeeding
- Smoke turns from white to **black**
- Initial fire becomes larger and firemen retreat
- Huge fireball erupts
- Decision is made to call in additional aid & assistance





TILX 352051

GAL













CP



# Staging Area



# Mutual Aid & Assistance

MABAS alarm & calls went out to all partners

Arriving on scene with personnel & resources:

- HAZMAT teams (Jo Daviess, Lafayette, Grant Co)
- Equipment (Dubuque, Carroll, Stephenson Co)
- EMS (Jo Daviess, Carroll, Naperville)
- Red Cross (Dubuque)
- Water trucks, Air Boats, ATVs
- Port-a-Johns, boom, fuel oil (via MOUs w/ private companies)
- Boom (USCG)
- Amplifiers, generators for radios
- Cell phone tower boosters

# State Incident Response Center (SIRC)

- ✦ Activated on March 5, 2015 at 1700
- ✦ Agencies include:
  - + Illinois Emergency Management Agency
  - + Illinois Commerce Commission
  - + Illinois Environmental Protection Agency
  - + Illinois State Police
  - + Illinois Emergency Service Management Association
  - + Illinois Department of Natural Resources
  - + Mutual Aid Box Alarm System
  - + American Red Cross
  - + Illinois National Guard
  - + Illinois Department of Transportation - Aeronautics



# Initial Response Activities

- Notifications
- Initial Response
- Rapid Needs Assessment
- Establish Safe Zone/Evacuations
- Establish IC
- Activate Mutual Aid Networks / SERC
- Public Information & Warning
- Public-Private Sector Integration
- Damage/Impact Assessments
- Immediate /Short Term Planning

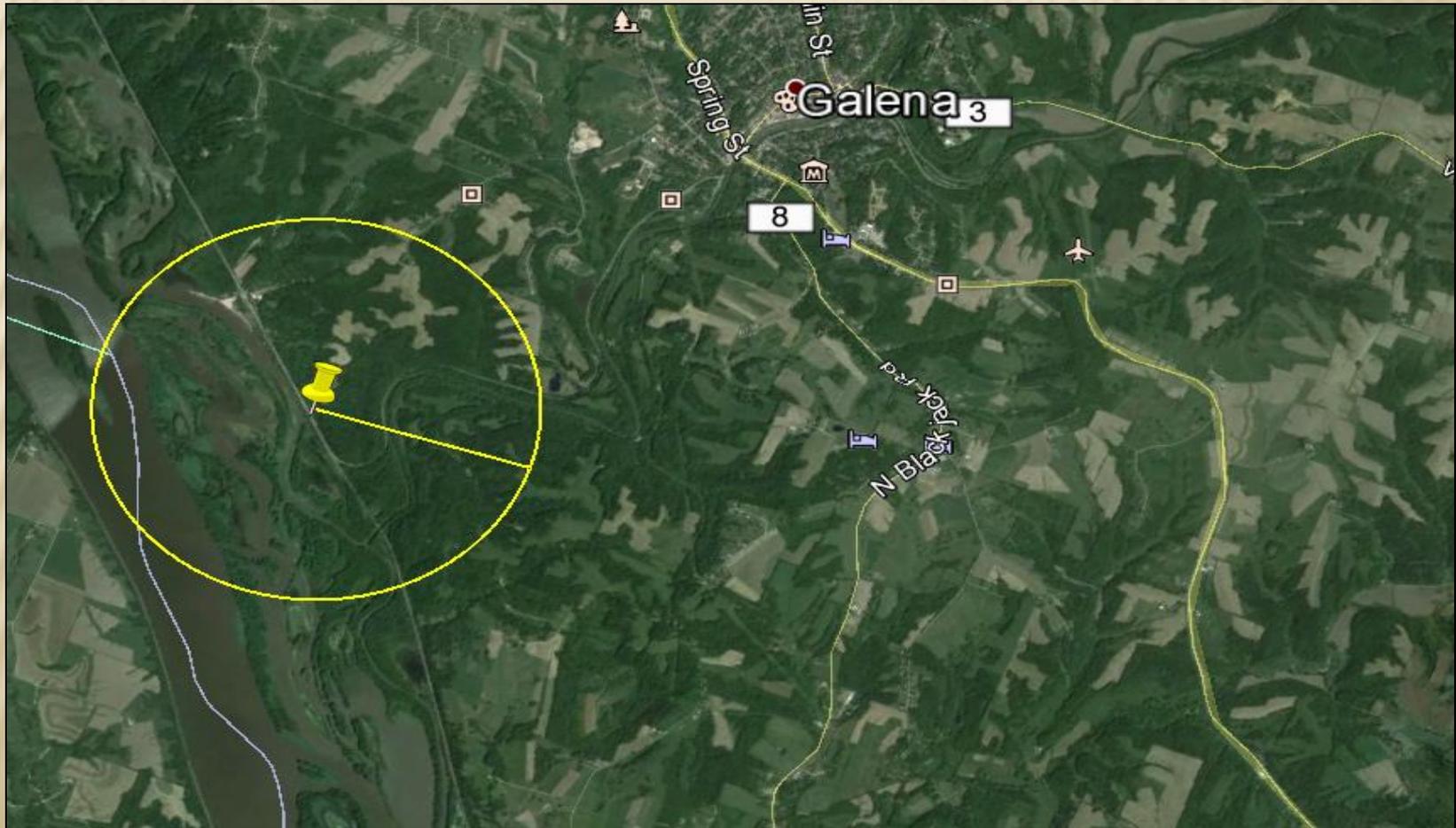


# Incident Location



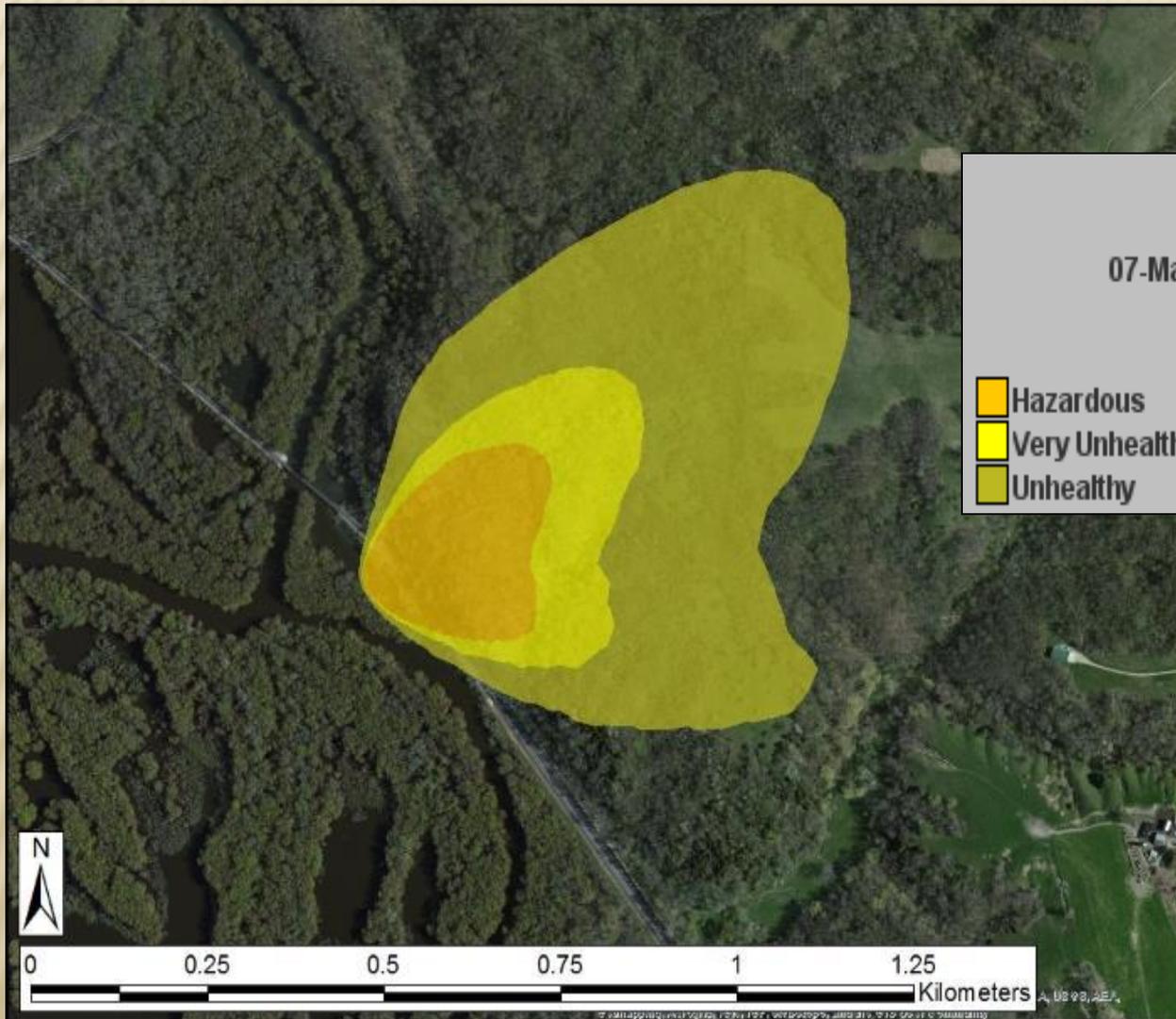
# Establishment of Safe Zone/Evacuations

6 homes within 1 mi radius  
4 homes occupied  
2 individuals evacuated / 7 refused



# Contingency Planning – Modeling

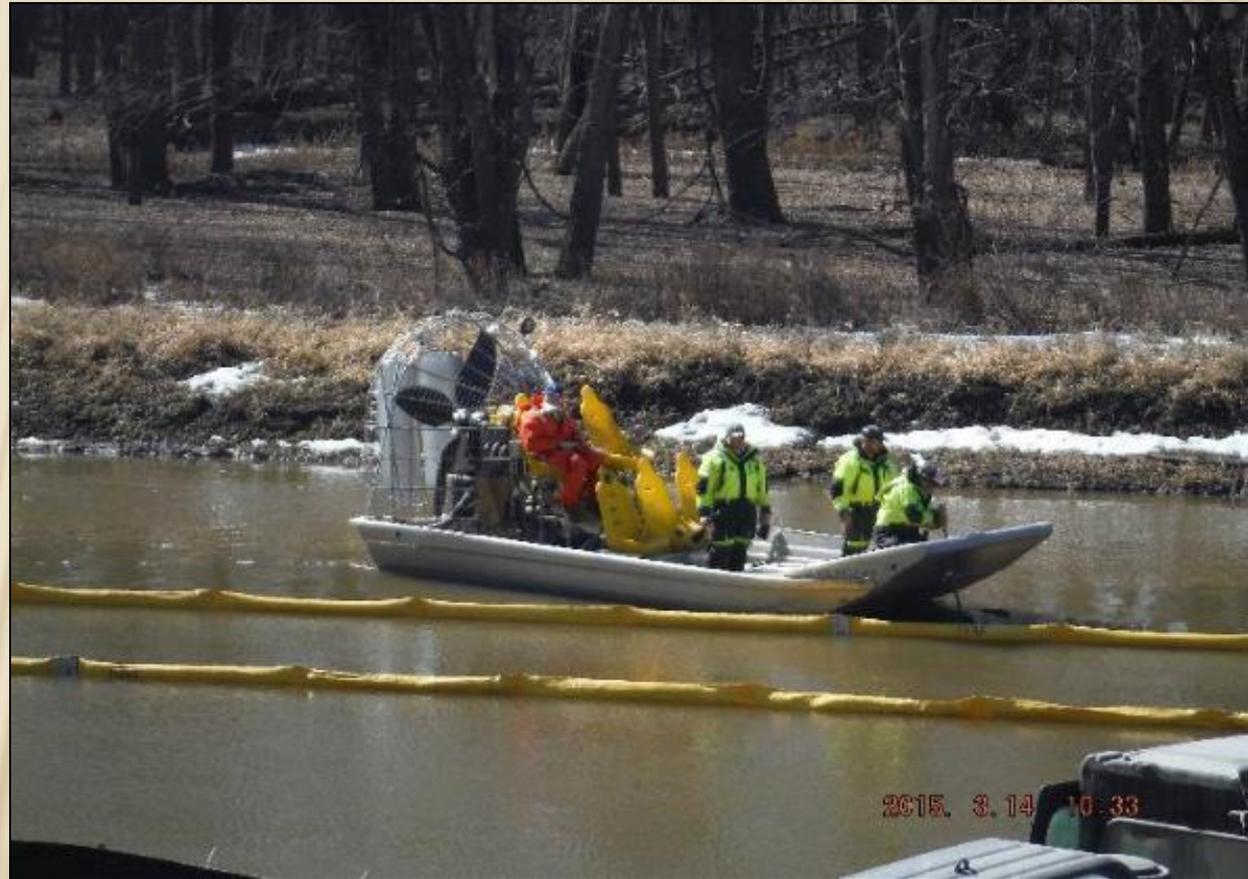
*Threat of further tanker failure(s) – March 6th*



Oilfire Gas Surface Dosage 07-Mar-15 22:00:00Z (24.000 hr)		
	mg-min/m <sup>3</sup>	In contour area (km <sup>2</sup> )
 Hazardous	360.72	4.92E-2
 Very Unhealthy	216.72	0.108
 Unhealthy	94.32	0.349

# EPA Monitoring & Sampling

Air  
Product Fingerprint  
SDS  
Surface Water  
Soil



# Crude Oil - Paperwork



## Report of Analysis

Client: Bakken Oil Express, LLC	Client Reference:		
Job Location: Bakken Oil Express -Eland, ND			
Job No: 35-15-00175			
Sample Number: 351500175-001	Date Sampled: 03/01/15 000		
Sample ID: Shore Tank 9101	Date Submitted: 3/1/2015		
Vessel / Object: Weekly Rail/ST9101	Date Tested: 3/3/2015		
Location: Bakken Oil Express - Eland, ND	Drawn By: Client Submitted		
Method	Test	Result	Units
ASTM D6377	Determination of Vapor Pressure of Crude Oil: VPCR <sub>x</sub> (Expansion Method) VPCR 4 (37.8 C)	11.92	psi
	Vapor Pressure (RVPE)	10.91	psi
ASTM D86 MOD	Distillation		
	Initial Boiling Point	86	*F
ASTM D56 MOD	Flash Point by Tag Closed Cup Tester		
	Observed Flash Point	-50	*F
ASTM D4294	Sulfur Content in Petroleum Products by ED-XRF		
	Sample Preparation	NA	
	Sulfur Content	0.072	W
ISM TM0172	Nace Corrosion		
	Nace Corrosion Rating	A	
ASTM D7900	Light Hydrocarbons in Stabilized Crude Oils by Gas Chromatography		
	Methane	< 0.01	Vg
	Ethane	0.17	Vg
	Propane	1.17	Vg
	Isobutane	0.53	Vg
	n-Butane	2.43	Vg
	Neopentane	0.01	Vg
	Isopentane	1.34	Vg
	N-Pentane	2.49	Vg
	Cyclopentane	< 0.01	Vg
	Cyclohexane	0.54	Vg
	Methylcyclopentane	0.97	Vg
	Benzene	0.20	Vg
	Toluene	0.40	Vg
	Ethylbenzene	0.11	Vg
	Xylenes	0.44	Vg
	Total Light Hydrocarbons C1-C5	8.16	Vg
	Total Light Hydrocarbons C1-C9	35.67	Vg

## Oil Sample Analysis Report

U. S. EPA Region V  
Case Number E15510

Marine Safety Laboratory  
Case Number 15-091



### SAFETY DATA SHEET

#### SECTION 1 - IDENTIFICATION

Product Name: **Bakken Crude Oil, Sweet**  
 SDS Manufacturer Number: 823978  
 Synonyms: Crude Oil, Desalted, Sweet, Field Crude, Petroleum Crude, Petroleum Oil, Rock Oil, Separator Crude, Sweet Crude, Crude Oil  
 Product Use/Restriction: Railway Fuel  
 Manufacturer Name: ConocoPhillips  
 Address: 600 N. Dairy Ashford  
 Houston, Texas 77079-1375  
 General Phone Number: 855-244-0762  
 800-855-0811  
 Manufacturer Fax: 281-293-2000  
 Emergency Phone Number: Chemical: 800-424-9380 (24 Hours)  
 Website: www.conocophillips.com  
 SDS Creation Date: May 19, 2014  
 SDS Revision Date: May 19, 2014



Health Hazard	2*
Fire Hazard	3
Reactivity	1
Physical	1
Protection	1

#### SECTION 2 - HAZARD(S) IDENTIFICATION



Signal Word: **Danger**  
 GHS Class: **Extremely flammable liquid and vapor Category 1.**  
**Eye Irritant, Category 2.**  
**Specific Target Organ Toxicity, Single Exposure, Category 3.**  
**Specific Target Organ Toxicity, Repeated Exposure, Category 2.**  
**Carcinogen, Category 1B.**  
 Hazardous to the aquatic environment, long-term, chronic, Category 2.

Hazard Statements:  
 H224 - Extremely flammable liquid and vapor.  
 H314 - May cause skin irritation.  
 H315 - Causes skin irritation.  
 H316 - May cause drowsiness or dizziness.  
 H373 - May cause damage to organs through prolonged or repeated exposure.  
 H411 - May cause damage to aquatic life through long-term effects.  
 H412 - May cause harm to aquatic life.

Hazardous to the aquatic environment, long-term, chronic, Category 2.  
 H411 - May cause damage to aquatic life through long-term effects.

Precautionary Statements:  
 Keep away from heat/sparks/open flames/hot surfaces - No smoking.  
 Ground/Bond container and receiving equipment.  
 Use explosion-proof electrical/ventilating/lighting equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 If you or the fire: Use dry chemical, carbon dioxide to extinguish small fires. Use water for large fires.  
 Do not breathe dust/fume/gas/aerosol/vapors.  
 Wash hands thoroughly after handling.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep container tightly closed. Store in a well-ventilated place. Keep cool.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, Get medical attention.  
 Call a POISON CENTER or hospital if irritation persists. Rinse skin with water/shower.  
 Contaminated work clothing should not be allowed out of the workplace.  
 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do not induce vomiting.  
 Get medical attention/attention if you feel unwell.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 Call a POISON CENTER or doctor/hospital if you feel unwell.  
 Call a POISON CENTER or doctor/hospital if you feel unwell.  
 Avoid release to the environment.  
 Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

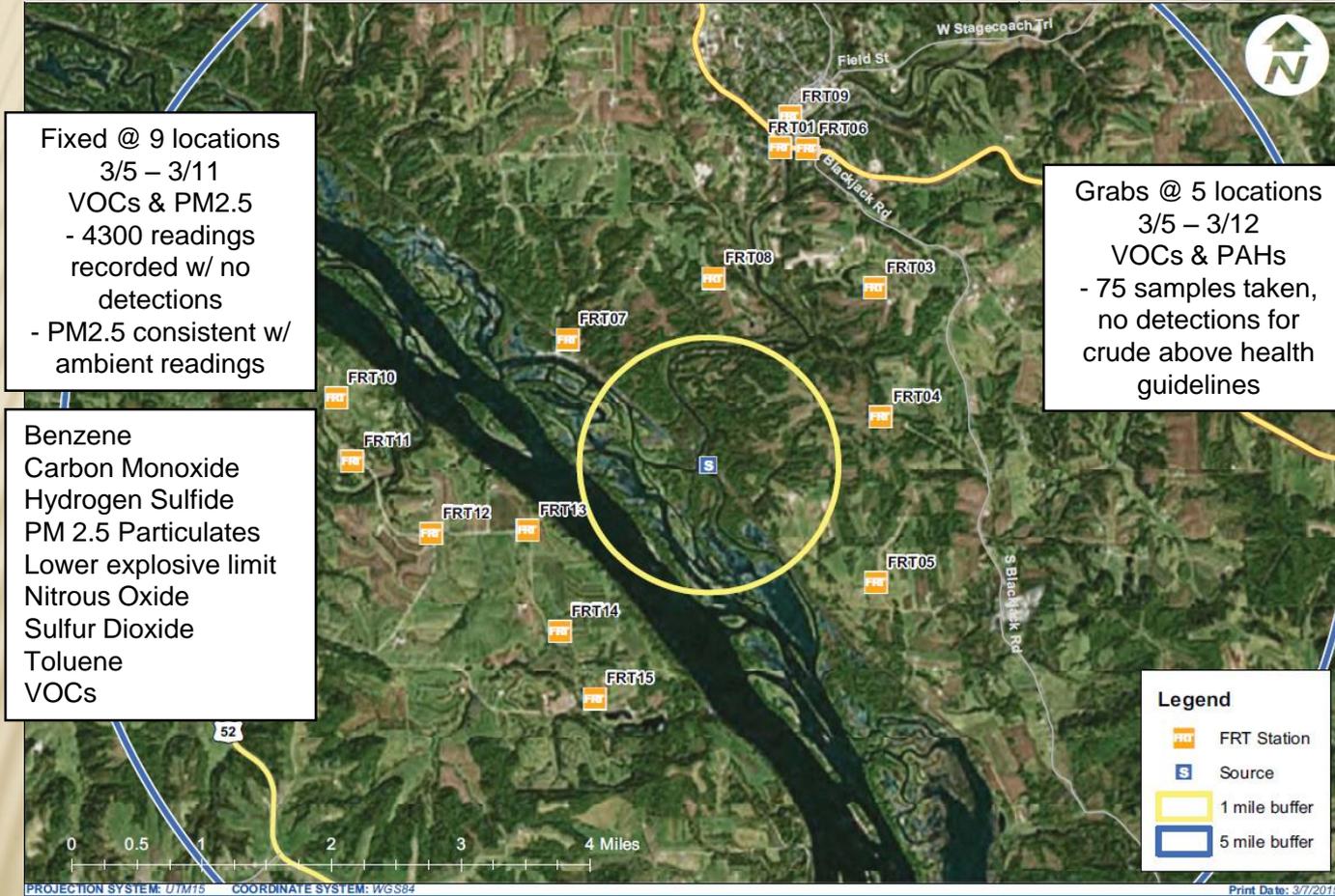
Emergency Overview:  
**DANGER!** Extremely flammable. Pulmonary aspiration hazard if swallowed.  
 Eye and skin irritant.

Route of Exposure: Eyes, Skin, Inhalation, Ingestion.  
 Potential Health Effects: Eyes, Skin, Inhalation, Ingestion.  
 Eye: Causes serious eye irritation.

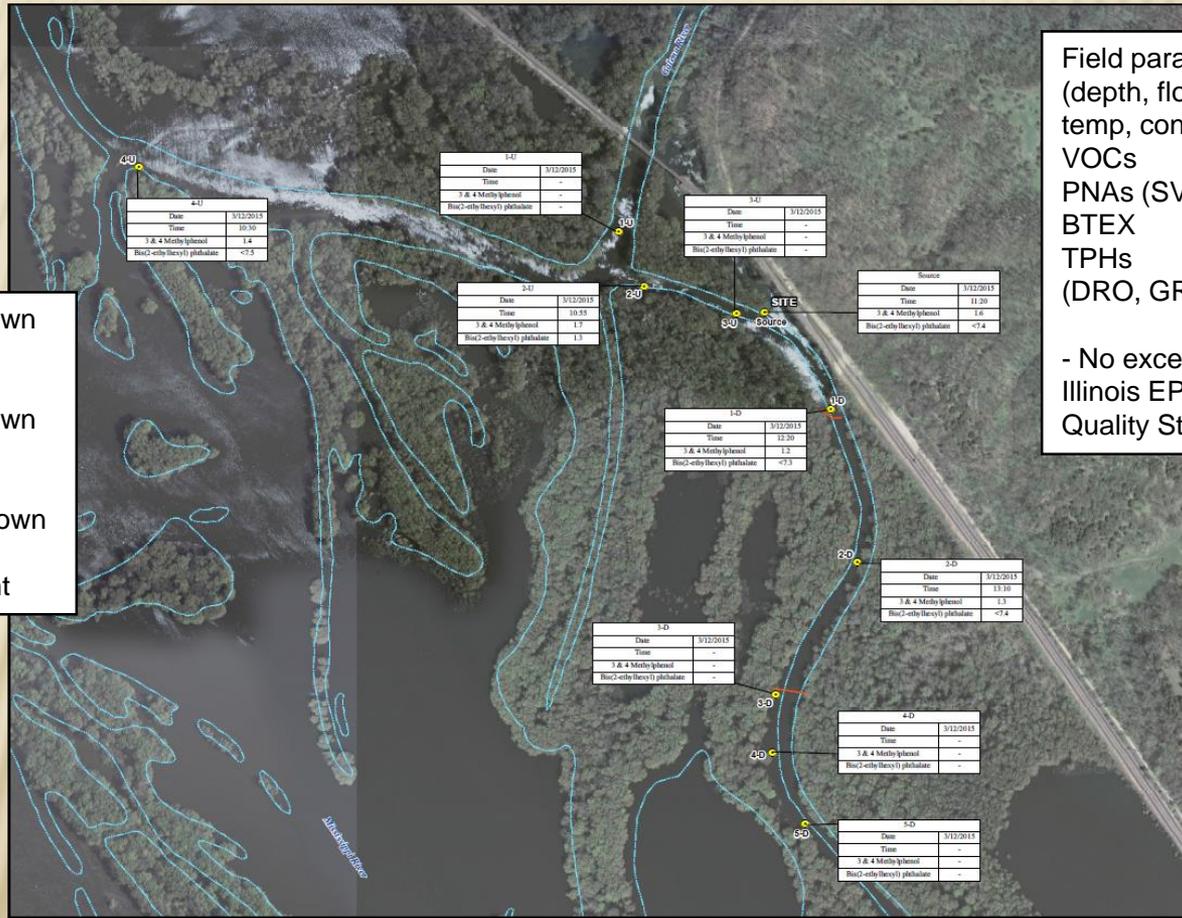
Bakken Crude Oil, Sweet  
 Revision: 5192014  
 Product Code: 823978



# Air Monitoring



# Surface Water Monitoring & Sampling



4 up, source, 5 down  
3/7 to 3/11

2 up, source, 2 down  
3/11 to 3/27

2 up, source, 2 down  
If > 1" rain  
3/27 to present

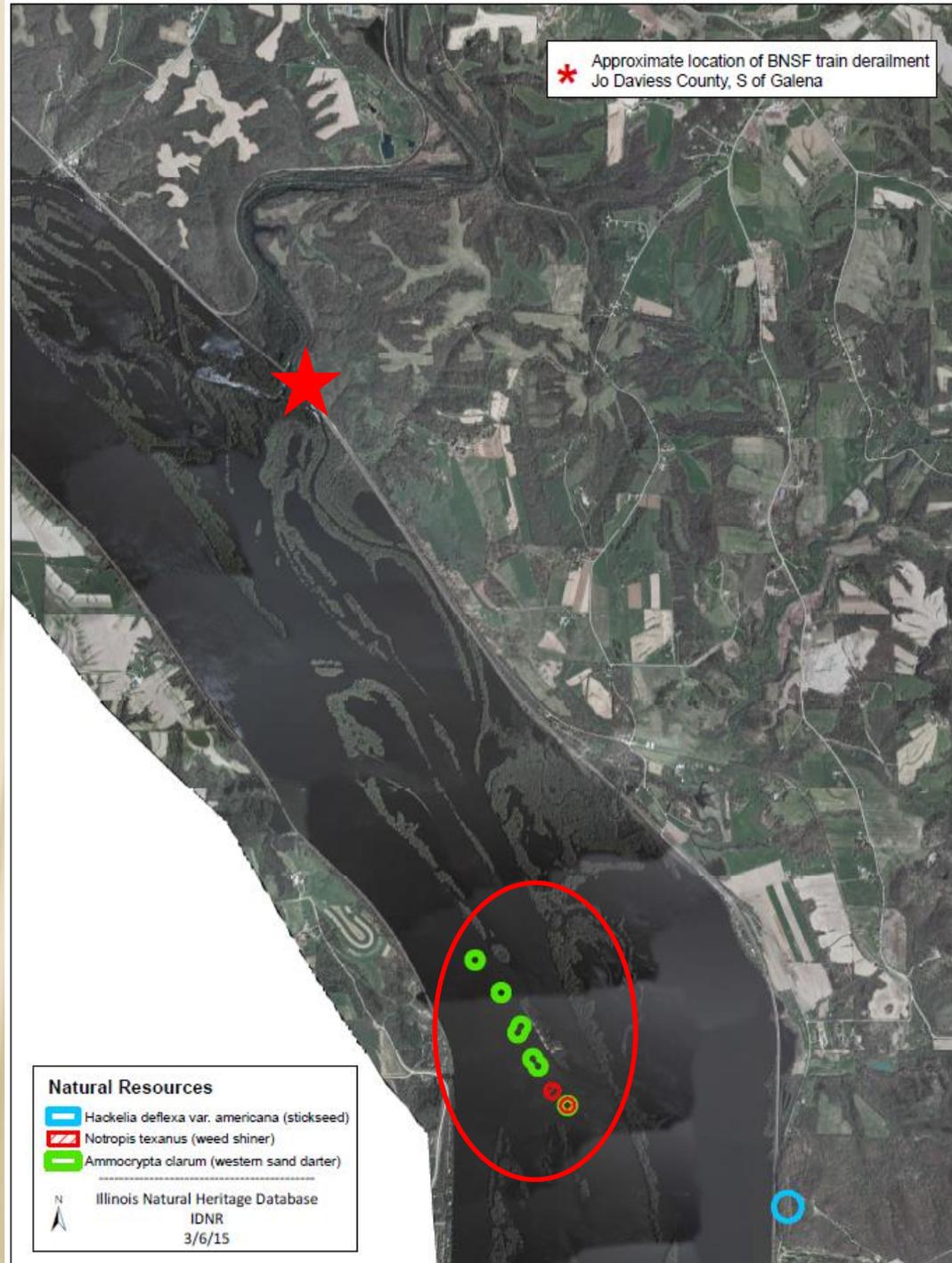
Field parameters:  
(depth, flow, DO, ORP,  
temp, cond, pH)  
VOCs  
PNAs (SVOCs)  
BTEX  
TPHs  
(DRO, GRO, ORO)

- No exceedances of  
Illinois EPA Surface Water  
Quality Standards

# Endangered Species Act

NOAA initiated consults

IDNR & US FWS did not identify endangered species at derailment site



# Bakken Crude



# Recovery Activities - Overview

- Extinguish fire, investigate, assess scene
- Vacuum out crude from impacted cars & off ground
- Remove damaged cars from right-of-way
- Excavate contaminated soils from ballast
- Replace damaged track & resume track ops
  - Over 100 trains were backed up
- Empty, clean, purge, cut up & scrap cars
- Sheet pile off impacted area (~500') to keep river out & contamination in
- Excavate contaminated soils and dispose
- Backfill & restore area (+roads, parks, trails)

# Assessment - Friday, March 6



**Saturday, March 7**





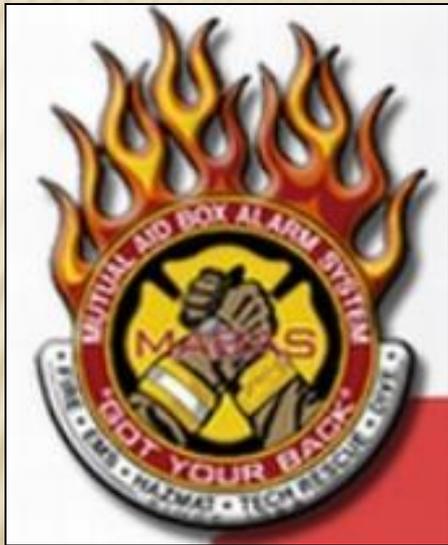


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# Personnel Totals - Local/State

▪ Jo Daviess County	79
▪ Illinois Emergency Management	4
▪ Illinois State Police	3
▪ Illinois Environmental Protection Agency	4
▪ <b>MABAS</b>	<b>74</b>
▪ Out-of-State Mutual Aid	39
▪ ILEAS	1
▪ IMT	12
▪ SIRC	12
<b>TOTAL</b>	<b>228</b>

# MABAS



- 74 - personnel
- 1 – mobile support unit
- 1 – western shelter
- 4 – light towers
- 4 – utility vehicles
- 7 – engines
- 13 – tenders
- 7 – ambulances

# Personnel Totals - Federal

American Red Cross	6
United States EPA	11
OSHA	5
USDOT/PHMSA	2
USDOT/FRA	5
USCG Atlantic Strike Team	4
United States Fish & Wildlife Service	2
<b>TOTAL</b>	<b>35</b>

# Personnel Totals - Private Sector

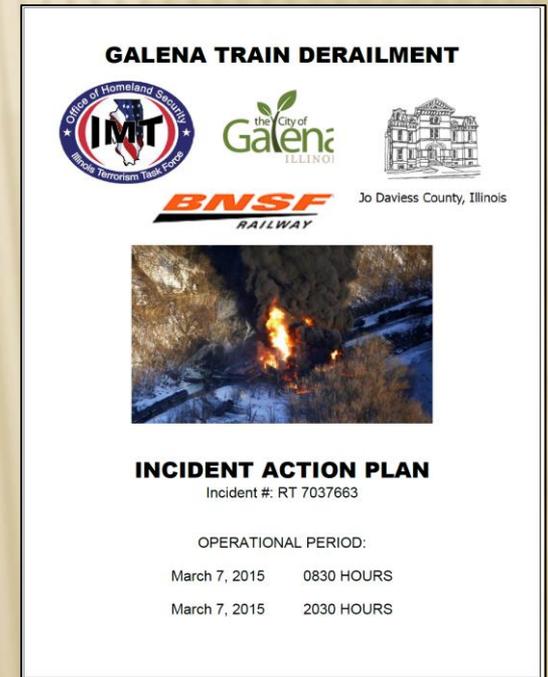
BNSF and Contractors (12+)	152
<b>TOTAL</b>	<b>152</b>

# Personnel Totals - Collective Total

Local/State	228
Federal	35
Private Sector	152
<b>Total</b>	<b>415</b>

# Managing the Build Up

- × IEMA/Galena FD used NIMS from the onset
  - + 2 separate 'IAPs' being developed
    - × BNSF & IL IMT
  - + 'Notice of Federal Interest'
    - × Issued to BNSF by US EPA
  - + IEPA & USEPA coordinated from Day 1
- × US EPA / IEMA established UC on day 4
  - + US EPA
  - + IEPA
  - + Galena FD / Jo Daviess County EMA
  - + BNSF Railway
- × 1<sup>st</sup> combined IAP developed for OP#4



# Transition

- × IL-Incident Management Team (IMT) met with USEPA to discuss integration
- × UC selected based on:
  - + Responsibility
  - + Authority
  - + Expertise
- × Day 3 Incident Action Plan (IAP) was a combination of the BNSF IAP & IL-IMT IAP from Day 2
- × IL-IMT worked together with USEPA to establish transition plan
- × IL-IMT steps back to support role for Day 5 IAP
- × IL-IMT steps out of command structure

# Transition Issues

- × Composition of UC
  - + PHMSA, FSA, OSHA - investigators left off
  - + IEMA, IL IMT - transitioning out
- × Selection of 1 individual for KLPs challenging
  - BEFORE = AFTER**
    - + 1 IC = 4 UC
    - + 5 PSCs = 1 (CTEH)
    - + 6 SOs = 1 (BNSF)
    - + 4 OPSs = 1 (BNSF)
    - + 3 ENVLs = 1 (ARCADIS)
- × Strategy was to populate KLPs with qualified personnel w/ longevity on site
- × CTEH's IAP software utilized successfully

# Investigation

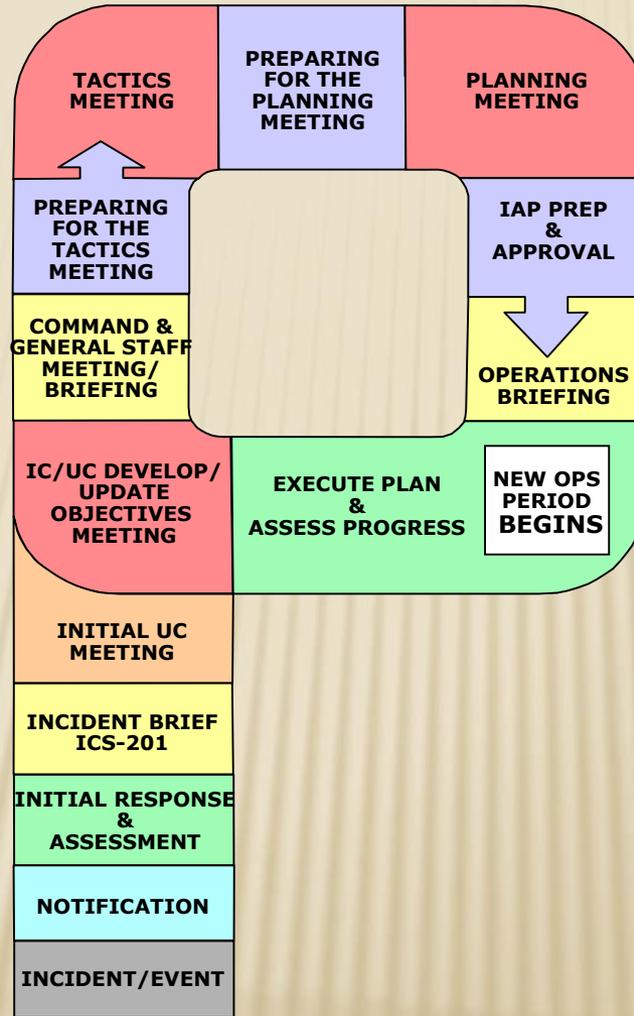
- USDOT Pipeline & Hazardous Materials Safety Administration (PHMSA) inspected & sampled product inside cars
- USDOT Federal Railroad Administration (FRA) inspected track & rail infrastructure to determine cause of the derailment
- USCG Atlantic Strike Team & OSHA provided assistance with Health & Safety during response operations

# VIP Briefing – Day 5 (Monday)



# Media – Day 5





# IMT Meeting Progression



# Planning Meeting – Day 6



# Incident Action Plans

## Incident Action Plan

Incident: BNSF Galena Derailment *03/25/2015 0700* *CS* Prepared By: Anton Avguchenko  
 Period: #10: 03/17/2015 07:00 CDT - *03/19/2015 07:00 CDT* *PR* Version Name: P010V02

Approved By *CS*

Organization	Name	Signature
U.S. EPA REGION 5	PAUL RUECH	<i>[Signature]</i>
BNSF	Charles Thomas	<i>[Signature]</i>
JD DAVIES EMA	CHARLES PEDERSEN	<i>[Signature]</i>

Incident Photo



### Included in Action Plan

<input type="checkbox"/>	Incident Forms	<input type="checkbox"/>	Period Forms	<input type="checkbox"/>	Attachments
<input type="checkbox"/>	Include Incident Cover	<input checked="" type="checkbox"/>	ICS 202 - Incident Objectives	<input checked="" type="checkbox"/>	208 Safety Message/Plan
<input type="checkbox"/>	ICS 201-1 - Incident Briefing	<input type="checkbox"/>	ICS 203 - Organization Assignment Lists	<input checked="" type="checkbox"/>	205a - Communications List
<input type="checkbox"/>	ICS 201-2 - Summary of Current Actions	<input checked="" type="checkbox"/>	ICS 204 - Assignment List(s)	<input checked="" type="checkbox"/>	Oil Spill Contingency Plan
<input type="checkbox"/>	ICS 201-3 - Organization Chart	<input checked="" type="checkbox"/>	ICS 205 - Communication Plan	<input checked="" type="checkbox"/>	Water Influx Contingency Plan
<input type="checkbox"/>	ICS 201-4 - Resource Summary	<input checked="" type="checkbox"/>	ICS 206 - Medical Plan	<input checked="" type="checkbox"/>	209 Situational Update
<input type="checkbox"/>	ICS 201-5 - Site Safety and Control Analysis	<input checked="" type="checkbox"/>	ICS 207 - Organizational Chart	<input checked="" type="checkbox"/>	Site Map
<input type="checkbox"/>	Reactive Phase Weather Report	<input checked="" type="checkbox"/>	ICS 208 - Site Safety Plan(s)	<input checked="" type="checkbox"/>	ICS 203 OP10
<input type="checkbox"/>	Reactive Phase Notifications	<input type="checkbox"/>	ICS 211P - Check In List	<input checked="" type="checkbox"/>	Site Road map
		<input type="checkbox"/>	ICS 213 - General Message(s)	<input checked="" type="checkbox"/>	Plan Tracker
		<input checked="" type="checkbox"/>	ICS 214 - Activity Logs	<input checked="" type="checkbox"/>	ICS 233 - Open Action Items
		<input type="checkbox"/>	ICS 215 - Operational Planning Worksheet		
		<input checked="" type="checkbox"/>	ICS 230 - Meeting Schedule		
		<input type="checkbox"/>	Weather Report		
		<input type="checkbox"/>	Incident Critique		

## ICS 202: Incident Objectives

Incident: BNSF Galena Derailment Prepared By: Anton Avguchenko  
 Period: #10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT Version Name: 03/17/2015 08:25 CDT

### Objective(s)

1. SAFETY OF RESIDENTS & RESPONDERS
2. PROTECT ENVIRONMENT AND CONTROL RUNOFF
3. STABILIZE SITE
4. MONITOR ENVIRONMENTAL CONDITIONS/IMPACTS
5. FACILITATE INVESTIGATIONS & PRODUCT RECOVERY/REMEDIATION
6. RESTORE DERAILMENT SITE
7. ENSURE SAFE AND EFFECTIVE TRACK OPERATIONS
8. ENSURE CONSTRUCTION OF SITE CONTROLS

### Operational Period Command Emphasis

INITIATE TRANSITION OF REGULATORY OVERSIGHT FROM USEPA TO ILEPA  
 RELOCATE COMMAND POST  
 COMMUNICATE HEALTH AND SAFETY PLAN TO ALL RESPONDERS  
 TRAIN RESPONDERS ON-TRACK SAFETY  
 COMMUNICATE CONTINGENCY PLAN TO ALL RESPONDERS  
 CONTINUE COMMUNICATIONS AMONG RESPONDERS AND RESPONSE AGENCIES  
 IMPROVE COMMON OPERATING PICTURE AT THE SITE AND THE ICP  
 UPDATE THE CONTAINMENT/CONTINGENCY PLAN

### LIMITATIONS/CONSTRAINTS

TRACK WINDOWS

### General Situational Awareness

ENVIRONMENTAL SAMPLING CONTINUES (SURFACE WATER ONLY)  
 INSTALLATION OF SHEETPIILING WALL  
 DELIVERY OF WATER TREATMENT SYSTEM  
 COMMAND SITE HAS NIGHTTIME SECURITY ONLY  
 WORK SITE STILL HAS 24HR SECURITY

# Operations Briefing



# Field Operations Briefing



# Recovery / Remediation

- × Remove crude (mass balance)
- × Sheet pile impacted area
- × Excavate impacted soils
  - + Disposed of at Subtitle D landfill
- × Flush ballast / ramp & recover oil
  - + Water Treatment
  - + FOSC exercised NCP, CWA Sect. 311(c) & NPDES Section 122.3(d) authority to exempt NPDES permit until state issued permit
- × Backfill & restoration (USACOE)
- × Long term monitoring - GW



# Remediation Related Work Plans

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Health & Safety Plan

Emergency Evacuation & Personnel Injury Plan

Oil Spill Contingency Plan

Post Excavation Soil Sampling Plan

Sheet Wall & Drainage Trench Plan

Site Security Plan

Site Decontamination Plan

Surface Water Sampling & Monitoring Plan

Waste Management & Handling Plan

Water Influx Contingency Plan

Water Treatment Plan

# BNSF Resources

- Large amount of heavy equipment
    - Transport trucks
  - HAZMAT Team
  - Security Police
  - Medical Staff
  - Food Service
  - Command Trailer
  - Communications Trailer
  - Contractors
- 
- Replaced 810' of track, switch and bridge within 36 hrs

# Staging Area



# MCP / ICP



# Park Restoration

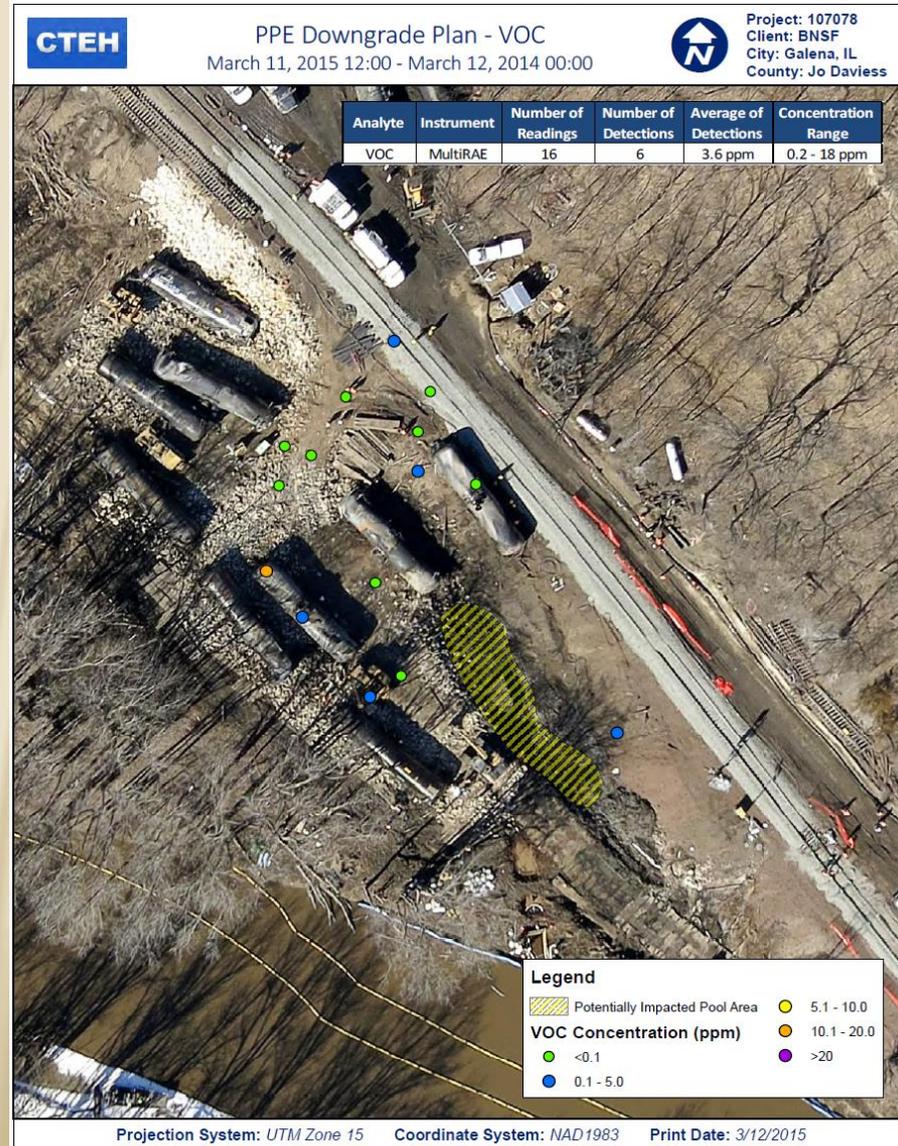


# Area Most Significant Impact 12 cars



# PPE Planning

- Zone delineation
- VOCs
- LELs



# Staging & Clearing Wreck



# Wednesday, March 18



03/18/2015 14:34

# Tight Spot







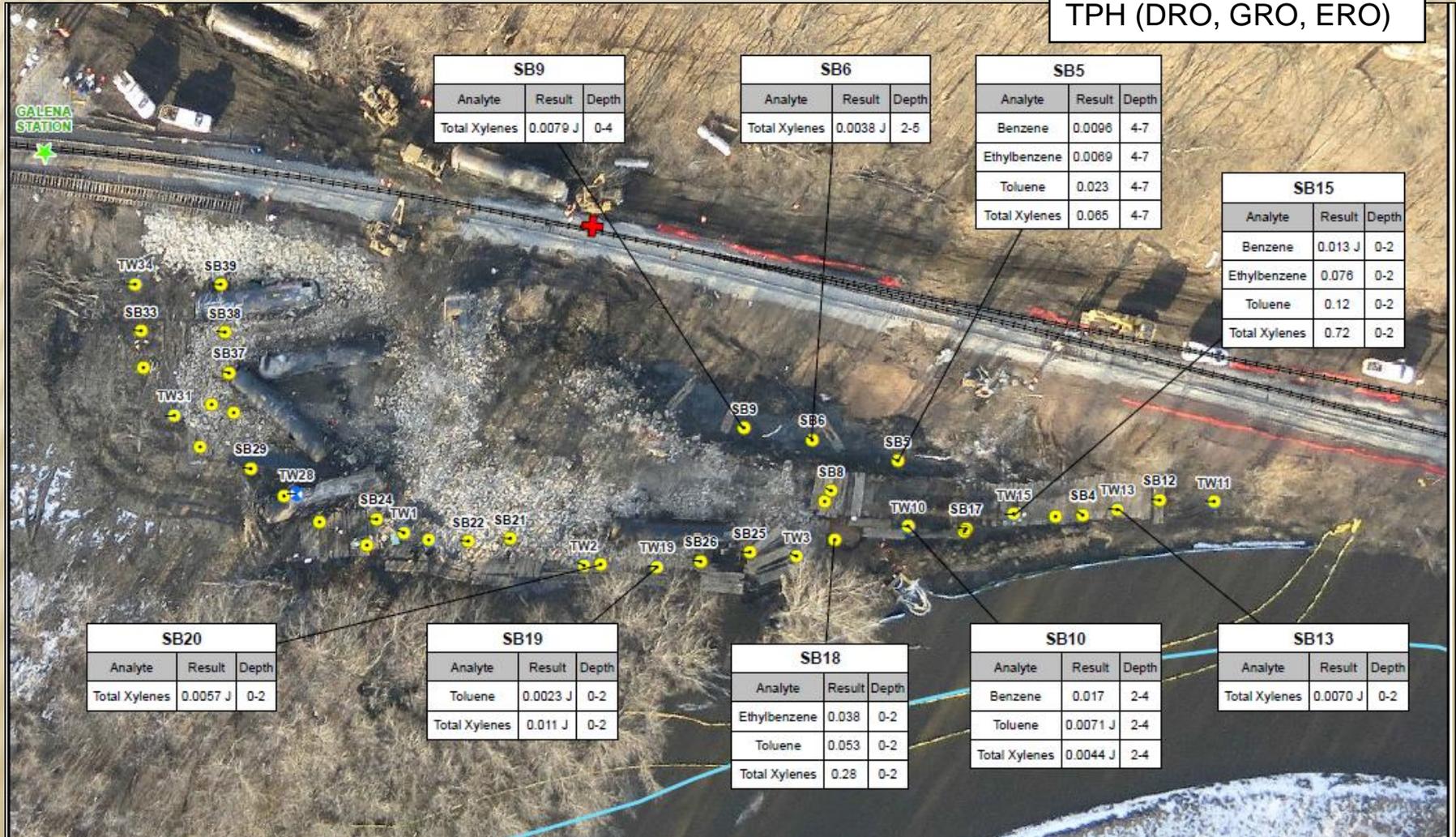
# Soil Sampling

- 143 samples from 35 borings screened  
 39 samples to lab

PNAs n(0'-3', 4'-8')

BTEX

TPH (DRO, GRO, ERO)



SB9		
Analyte	Result	Depth
Total Xylenes	0.0079 J	0-4

SB6		
Analyte	Result	Depth
Total Xylenes	0.0038 J	2-5

SB5		
Analyte	Result	Depth
Benzene	0.0096	4-7
Ethylbenzene	0.0069	4-7
Toluene	0.023	4-7
Total Xylenes	0.065	4-7

SB15		
Analyte	Result	Depth
Benzene	0.013 J	0-2
Ethylbenzene	0.076	0-2
Toluene	0.12	0-2
Total Xylenes	0.72	0-2

SB20		
Analyte	Result	Depth
Total Xylenes	0.0057 J	0-2

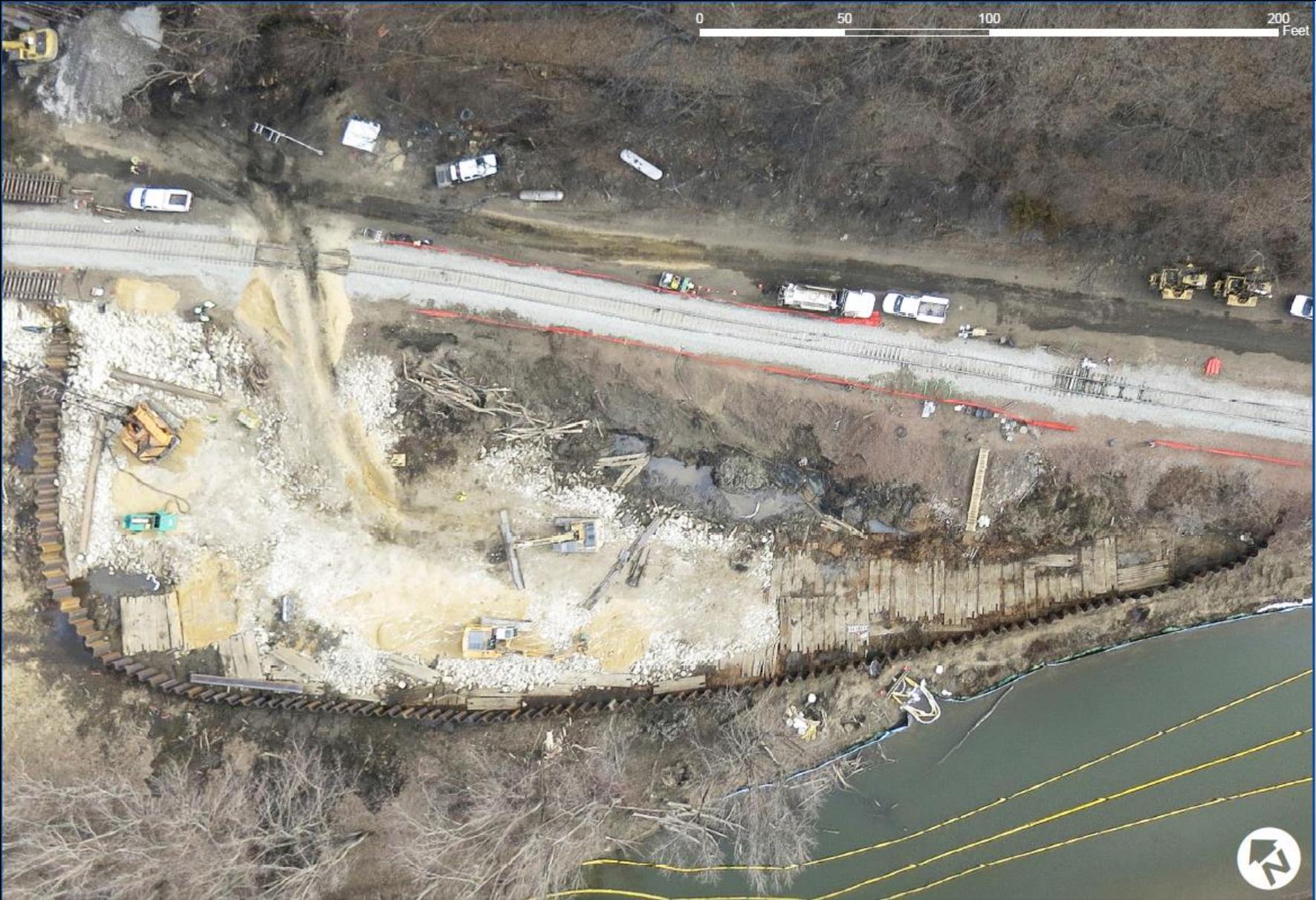
SB19		
Analyte	Result	Depth
Toluene	0.0023 J	0-2
Total Xylenes	0.011 J	0-2

SB18		
Analyte	Result	Depth
Ethylbenzene	0.038	0-2
Toluene	0.053	0-2
Total Xylenes	0.28	0-2

SB10		
Analyte	Result	Depth
Benzene	0.017	2-4
Toluene	0.0071 J	2-4
Total Xylenes	0.0044 J	2-4

SB13		
Analyte	Result	Depth
Total Xylenes	0.0070 J	0-2

# Sheet Pile Containment



# Metrics

Product	Total
Crude Oil (recovered)	221,421 gal
Contact Water (treated)	2,100,000 gal
Contaminated Soil	4,748 tons
Tankers wrecked	12





to



Transition

- × Transition plan/schedule developed w/ IEPA (3/19)
- × US EPA memo to IEPA SRP Unit Leader (3/20)
- × UC dissolution memo (3/24)
- × NPDES Permit
  - + Water Treatment Unit - US EPA FOSC email exercising NCP, CWA Section 311(c) & NPDES Section 122.3(d) authority to exempt NPDES permit (3/24)
  - + Construction Site – General permit issued by IEPA (3/27)
  - + Water Treatment Unit – NPDES permit issued by IEPA (7/1)
- × IEPA continues to oversee long-term monitoring & remediation
- × US ACE is responsible to restoration plan

# Last Fall



# Local Roadways To & From Site



# After Action Report

- ✘ Operational objectives analyzed:
  - + Notification
  - + Initial Response
  - + Incident Stabilization
  - + Transfer of Command
  
- ✘ Analysis of core capabilities:
  - + Public information & warning
  - + Environmental response / H&S
  - + Operational Coordination
  - + Situational Assessment
  - + On-Scene Security & Protection
  - + Operational Communications
  - + Planning
  - + Intelligence & Information Sharing



## Galena Train Derailment

After-Action Report/Improvement Plan

March 27, 2015

The After-Action Report/Improvement Plan (AAR/IP) aligns exercise objectives with preparedness doctrine to include the National Preparedness Goal and related frameworks and guidance. Exercise information required for preparedness reporting and trend analysis is included; users are encouraged to add additional sections as needed to support their own organizational needs.

Rev. April 2013  
HSEEP-IP01

# After Action Report

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- × Ratings:
  - + Performed w/o challenges, w/ some challenges, w/ major challenges
  - + Unable to be performed
- × For each objective & core capability:
  - + Strengths
  - + Areas for improvement
    - × Reference & analysis
- × Appendix A – Improvement Plan
  - + For each objective, core capability & area for improvement –
    - × Corrective action
    - × Primary responsible organization & POC
    - × Start & completion date

# **Action Items Identified**

## **Lessons Learned**

- Staging
- Credentialing
- Security
- Communications
- Public Information Officer
- Social Media
- Media
- Test
- Code Red
- Town Hall Meeting

# Improvement Plan - Highlights

- × Policies and procedures
  - + EOP Updates
    - × Declaration of a disaster
    - × Chain of Command
    - × Decision-making & spending authority
    - × Train derailment annex
  - + Release of information to the public
    - × Emergency notification system
    - × Facebook & Twitter accounts established
- × Training
  - + Galena FD attended SERTC (PER-327)
    - × <http://sertc.org/courses/crude-by-rail-emergency-response-cbr/>
  - + Coalition-building with surrounding counties
- × Equipment
  - + Cell phones, comms tower, light tower
  - + MCP upgrades
  - + Updated inventory of resources county-wide



**Understanding**  
the CodeRED Notification System



# Main Street Galena



# Bike Trail



# Q & A

