



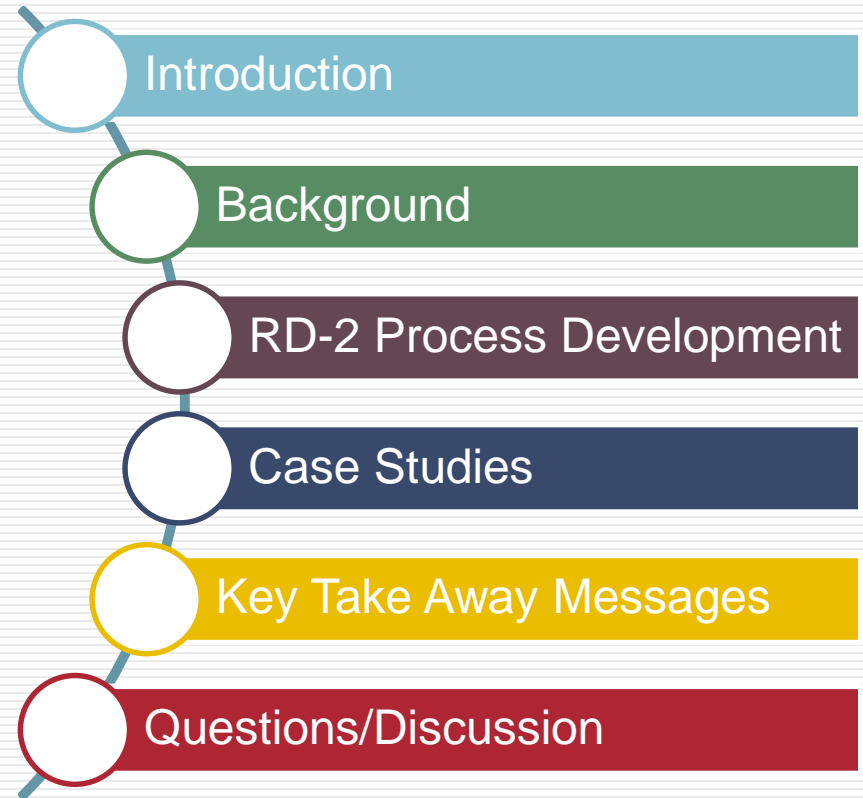
## To Lease or Not to Lease:

*Reducing Liability by Implementing CSX's  
RD-2 Prior to Accepting a Lease*

**Coley Campbell, CSX & Rick Adams, Arcadis**

Railroad  
Environmental  
Conference - 2017

# Agenda



# Introduction

- Thousands of Leased Properties
- Historically Environmental Dept. not involved in review process
- Improper lessee operations led to millions in liabilities
- Leased properties are also a major source of revenue
- Need an integrated process that balances environmental controls and business needs



# Background

## Examples of Liabilities Include:

- Poor screening improper siting = dangerous goods stored too close to residential areas
- Inadequate lessee BMPs led = significant environmental impacts which eventually had to be addressed by RR
- Lack of oversight resulted in un-allowed dangerous goods to be stored on RR property
- RR's have spent millions in clean-up costs addressing these issues.



# Development of the RD-2 Process

STEP  
1

Fill out RD-1 Form

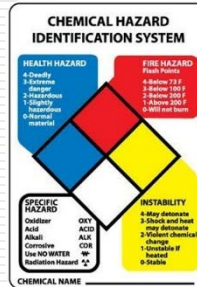


LAND AND/OR TRACK LEASE SITE ASSESSMENT SURVEY  
FOR HAZARDOUS MATERIALS, SUBSTANCES, AND WASTES

*This form is to be completed by CSXT Regional Development, Properties Group, and CSXT Environmental*

STEP  
3

Provide Commodity  
Information



Assess Additional  
Property  
Conditions

STEP  
5



STEP  
2

Review General  
Information

SECTION I: GENERAL INFORMATION Completed by Regional Development or Properties Group

PROPOSED LESSEE

|                |  |  |
|----------------|--|--|
| Company Name   | Corporate Structure                                |  |
| Address (1)    | <input type="checkbox"/> Corporation               | <input type="checkbox"/> Municipality        |
| Address (2)    | <input type="checkbox"/> Limited Liability Company | <input type="checkbox"/> General Partnership |
| City/State/Zip | <input type="checkbox"/> Other                     |  |
| Contact Name   | Phone No.  |  |
| Contact Title  | Cell No.   |  |
| Contact Email  | Fax No.  |  |

LOCATION

|                      |                     |       |
|----------------------|---------------------|-------|
| City/County/State    | Track No.           | Track |
| Milepost/Val Sec.    | Track Feet Required |       |
| Division/Subdivision |                     |       |

INTENDED USE

Storage  Transfer  Other:  Testing

If transfer, describe type of operation (i.e., tank car to tank car, tank car to truck, truck to tank car, tank car to fixed storage tank, etc.):

STEP  
4

Complete Site  
Description




**STEP**  
**2**

# RD-2 Process: Review General Information

| SECTION I: GENERAL INFORMATION  |  |  |       | Completed by Regional Development or Properties Group |  |
|---|--|--|-------|---|--|
| PROPOSED LESSEE   |  |  |       |   |  |
| Company Name  |  | Corporate Structure                                |       |   |  |
| Address (1)   |  | <input type="checkbox"/> Corporation               |       | <input type="checkbox"/> Municipality                 |  |
| Address (2)   |  | <input type="checkbox"/> Limited Liability Company |       | <input type="checkbox"/> General Partnership          |  |
| City/State/Zip  |  | <input type="checkbox"/> Other:                    |       |   |  |
| Contact Name  |  | Phone No.  |       |   |  |
| Contact Title   |  | Cell No.   |       |   |  |
| Contact Email   |  | Fax No.  |       |   |  |
| LOCATION  |  |  |       |   |  |
| City/County/State   |  |  | Track |   |  |
| Milepost/Val Sec.   |  | Track No.  |       |   |  |
| Division/Subdivision  |  | Track Feet Required                                |       |   |  |
| INTENDED USE  |  |  |       |   |  |
| <input type="checkbox"/> Storage  |  | <input type="checkbox"/> Transfer                  |       | <input type="checkbox"/> Other: fueling               |  |
| If transfer, describe type of operation (i.e., tank car to tank car, tank car to truck, truck to tank car, tank car to fixed storage tank, etc.): |  |  |       |   |  |


# RD-2 Process: Provide Commodity Information

## Chemical Name: 1,1,1 Trichloroethane

CAS Number  
71-55-6 






UN/NA Number  
2831

DOT Hazard Label  
Poison


USCG CHRIS Code  
 TCE


### NFPA 704

Hazard  
Class:

| Diamond   | Hazard   | Value | Description  |
|---|--|-------|--|
|  |  Health       | 2     | Can cause temporary incapacitation or residual injury. |
|   |  Flammability | 1     | Must be preheated before ignition can occur.           |
|   |  Instability  | 0     | Normally stable, even under fire conditions.           |
|   |  Special      |       |  |

(NFPA, 2010)

NIOSH Pocket Guide  
[Methyl chloroform](#) 

International Chem Safety Card  
[1,1,1-TRICHLOROETHANE](#) 

### General Description

A colorless liquid with a sweet, pleasant odor. May irritate skin, eyes and mucous membranes. In high concentrations the vapors may have a narcotic effect. Nonflammable, but may decompose and emit toxic chloride fumes if exposed to high temperatures. Used as a solvent.

- ✓ Quantity Car Loads to be Handled (per month)
- ✓ Average Storage Time (hours)

**STEP**  
**4**

# RD-2 Process: Complete Site Description

**Does it look like this?**



**Or like this?**



**Or mixed use?**





# RD-2 Process: Complete Site Description (continued)

Are there any Residences, Apartment Complexes, or Shopping Centers within:

250 Foot Radius of the Site  Yes  No

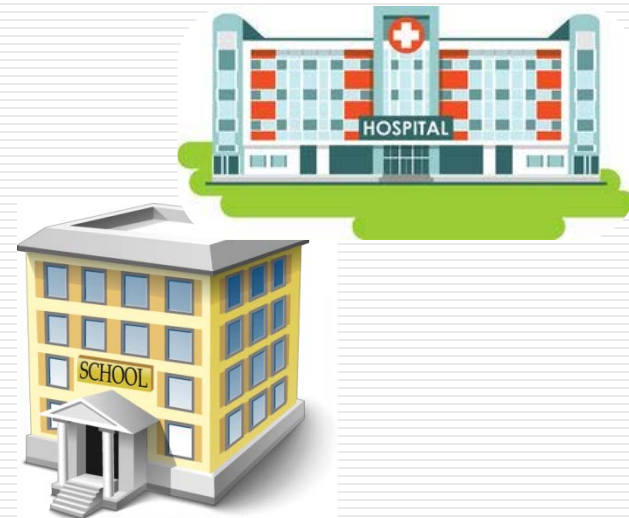
500 Foot Radius of the Site  Yes  No



Are there any Schools, Hospitals, or Nursing Homes within:

500 Foot Radius of the Site  Yes  No

1,000 Foot Radius of the Site  Yes  No



# RD-1/2 Process: Assess Additional Property Conditions

| No. | Criteria   | Site Meets? |
|-----|--|-------------|
| 1   | Track should be located in an area that minimizes exposure to people and the environment in the event of a release.  |             |
| 2   | Track must be 100 feet from passenger served track, 100 feet from Class 3, 4, 5, or 6 track, and 50 feet from Class 2 track.   |             |
| 3   | Track must be 100 feet from major highways or other heavily travelled roads.   |             |
| 4   | Track must be 500 feet from schools, hospitals, and nursing homes.   |             |
| 5   | Tracks must be 250 feet from residences, apartment complexes and shopping centers.   |             |
| 6   | Track must be 100 feet from non-lessee occupied industrial buildings.  |             |
| 7   | Track must be 100 feet from any surface water ways.  |             |
| 8   | Track must be of suitable condition and strength, as determined by Engineering Department, to safely support continued handling of loaded railcars.                                    |             |
| 9   | Track lease agreement must be signed. Hazardous material, environmental, and liability clauses must not be altered.  |             |
| 10  | Track must be prepared and transfer operations performed in accordance with the requirements set forth in the U.S. Department of Transportation Regulation 49 CFR Part 174, Subpart C. |             |

# Case Study #1: Proposed Ethanol Terminal



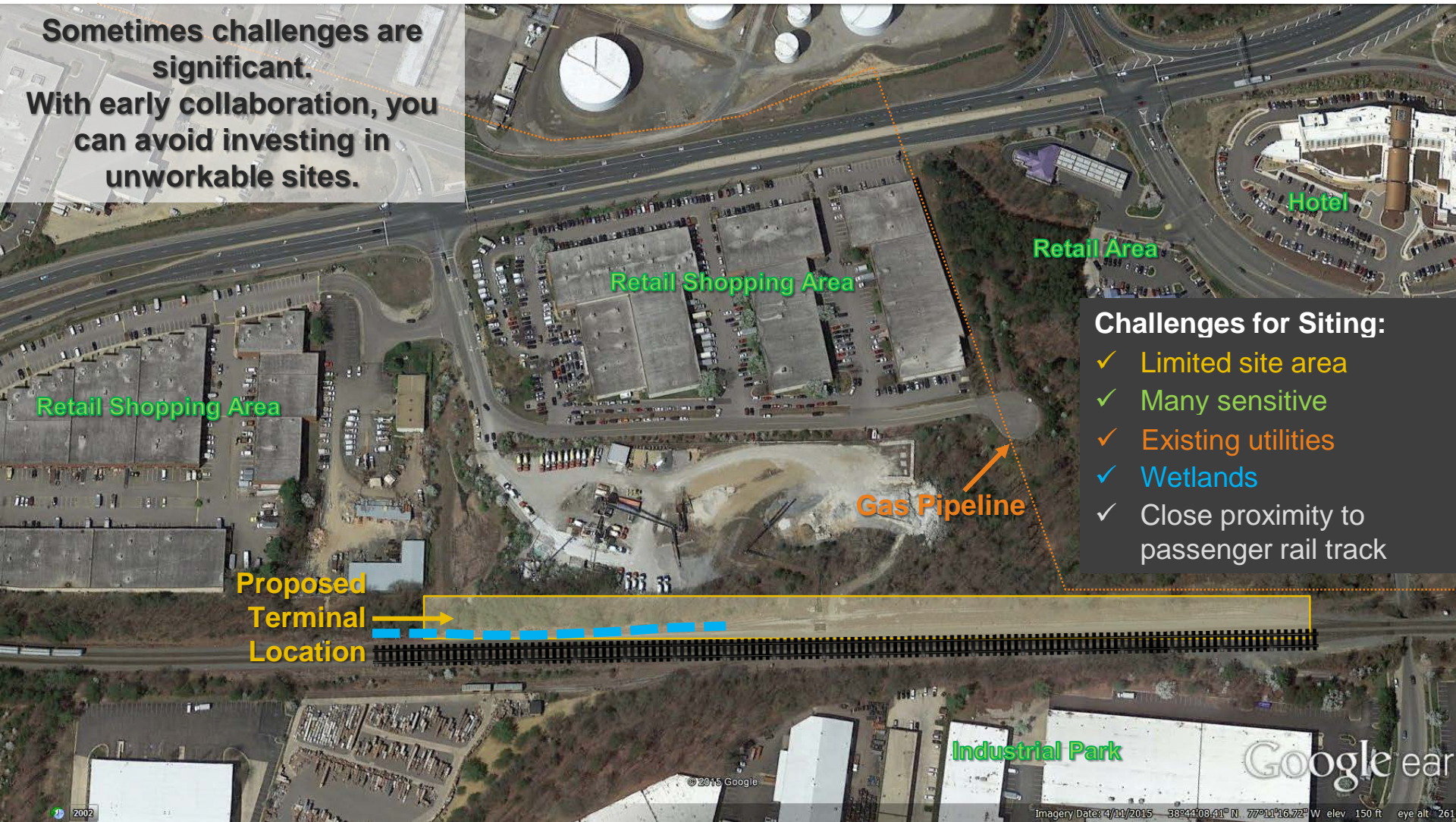
## Project Advantages:

- ✓ Significant potential revenue (~\$10M annually)
- ✓ Removal of 10,000 tractor trailer loads of ethanol annually currently transported on I-95
- ✓ Repurposing a vacant terminal

Proposed  
Terminal  
Location →

# Case Study #1: Proposed Ethanol Terminal (continued)

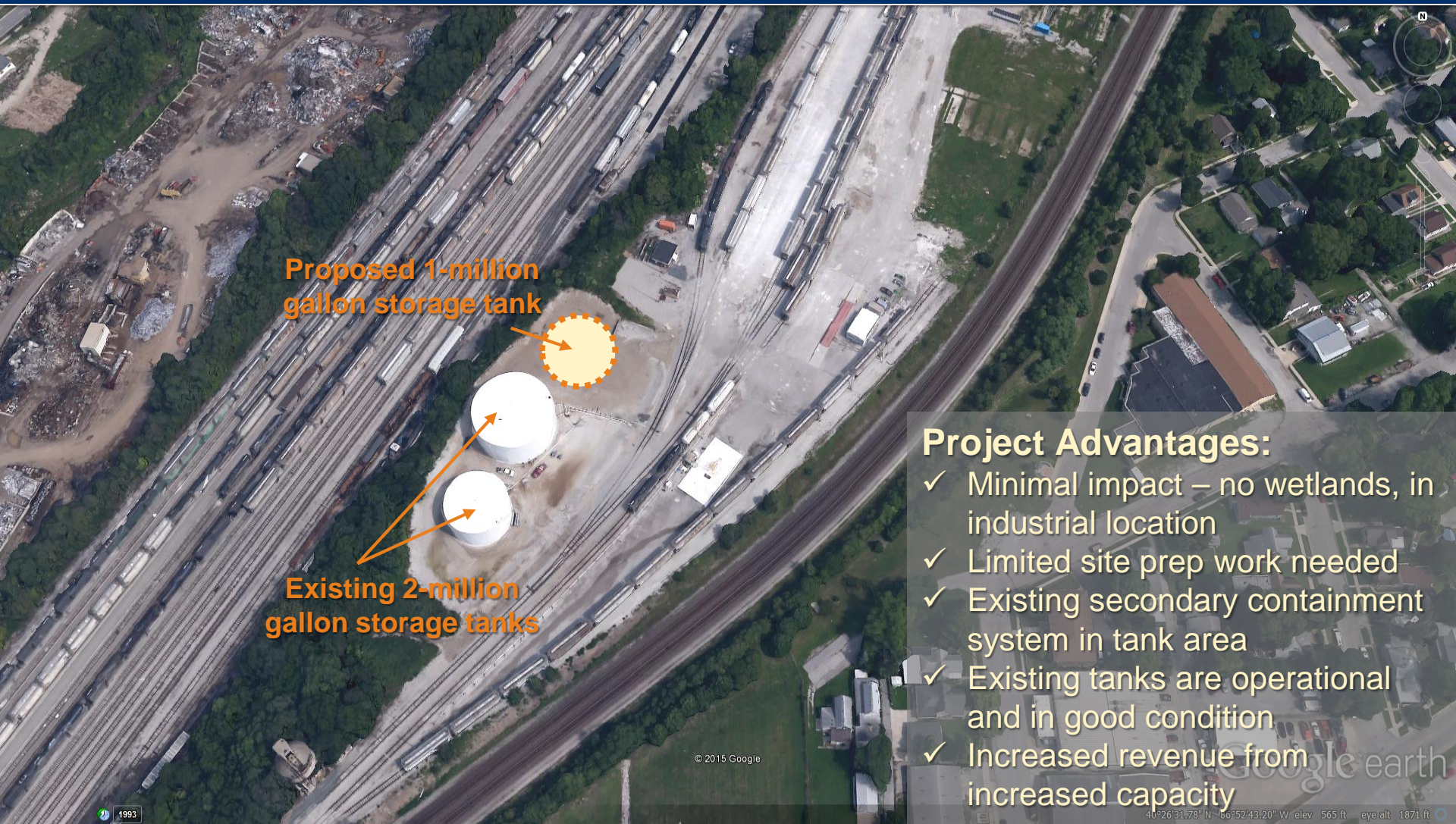
Sometimes challenges are significant.  
With early collaboration, you can avoid investing in unworkable sites.



## Challenges for Siting:

- ✓ Limited site area
- ✓ Many sensitive
- ✓ Existing utilities
- ✓ Wetlands
- ✓ Close proximity to passenger rail track

# Case Study #2: Expanded Urea Ammonia Nitrate Terminal



Proposed 1-million  
gallon storage tank

Existing 2-million  
gallon storage tanks

## Project Advantages:

- ✓ Minimal impact – no wetlands, in industrial location
- ✓ Limited site prep work needed
- ✓ Existing secondary containment system in tank area
- ✓ Existing tanks are operational and in good condition
- ✓ Increased revenue from increased capacity

# Case Study #2:

## Expanded Urea Ammonia Nitrate Terminal (continued)

Collaborate to address challenges and advance the project.

Proposed 1-million gallon storage tank

Existing 2-million gallon storage tanks

### Challenges for Siting:

- ✓ Must avoid damaging secondary containment liner during construction
- ✓ Residential area within 500 feet

Residential Area

Residential Area

Google earth

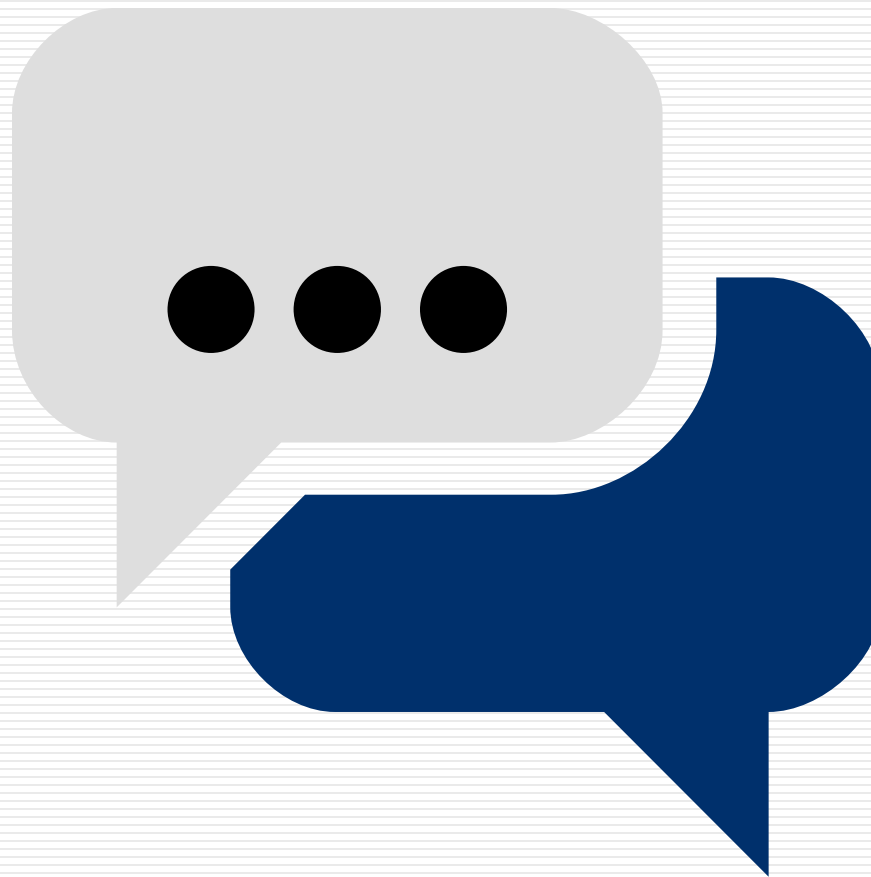
40°26'31.78" N - 86°52'43.20" W elev 565 ft eye alt 1871 ft

# Key Takeaways: To Lease or Not to Lease

- **Historical leases for dangerous goods resulted in environmental liabilities**
- **Liabilities included:**
  - commodities being stored in areas with mixed use (including residential)
  - tenants not utilizing proper BMPs while transferring dangerous goods
  - lack of engagement of environmental department resulting in potential environmental violations
- **Benefits of the RD-1/2 Process**
  - brings the departments together for a complete review
  - Ensures that storage and BMPs are integrated in the lease holder's design
  - Increases communication and engagement of the lease holder
  - Reduces liabilities



# Questions/Discussion





*How tomorrow moves*

