

# **7<sup>th</sup> Annual Working Conference on Pesticide Stewardship**

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**Reno, NV**

## Presentation Outline

- Who are we?
- What do we do?
- Why are we presenting?

# Manufacture of Composite Railroad ties from landfill bound plastic waste streams



# Unique Manufacturing Technology

- Mixed plastic streams
- Co-extruded / layered films
- Cross linked polymers
- Contamination
  - Adhesives / oils
  - Organics (wood, dirt, mold, etc)
  - Other (paint, ink, paper, etc.)

## Who are we?



**Temple, Texas**

## What do we do?

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# Cross Ties

**LARGE** Market

20 million replaced annually

Demanding application

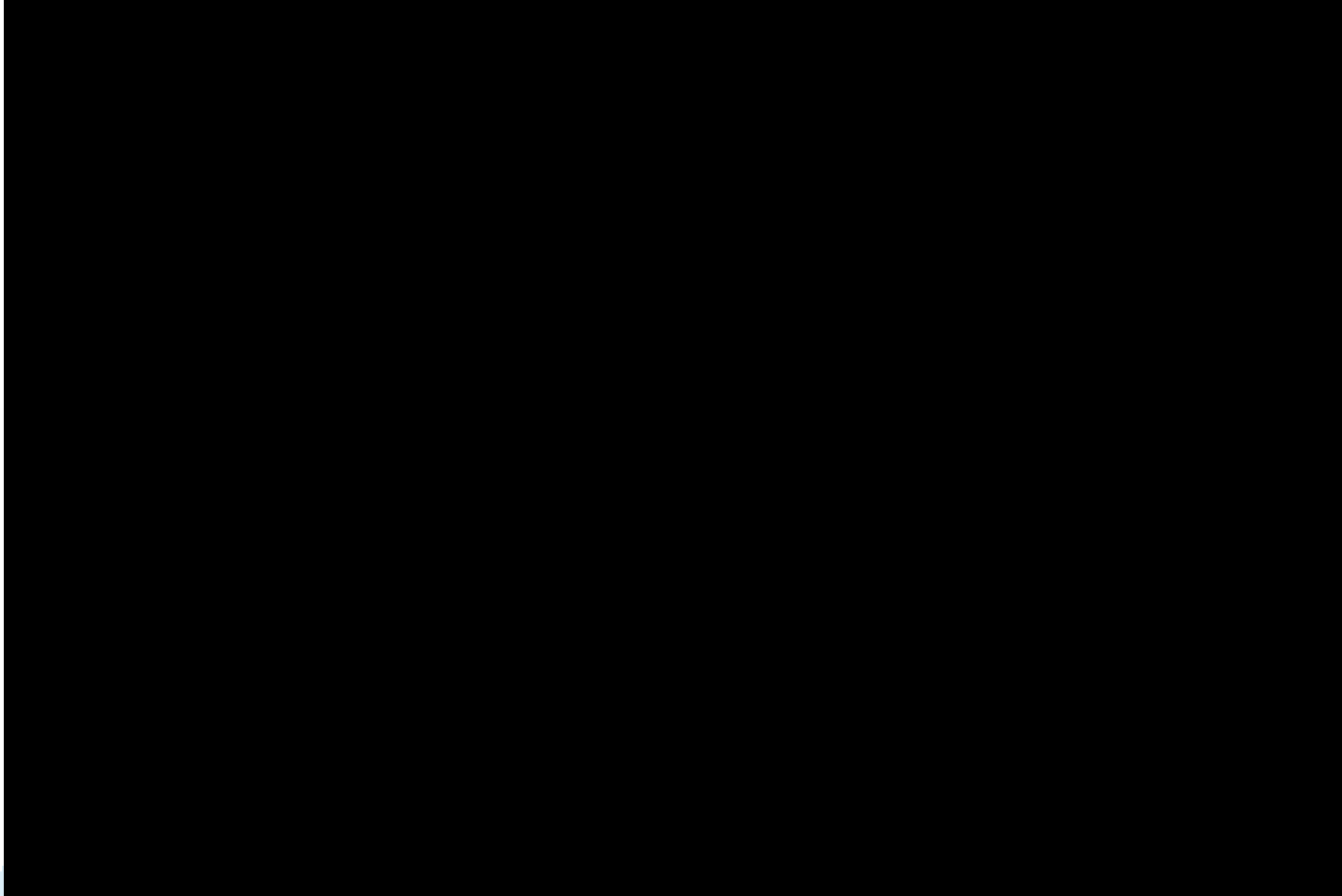
**High Strength** for very low cost

# What do we do?

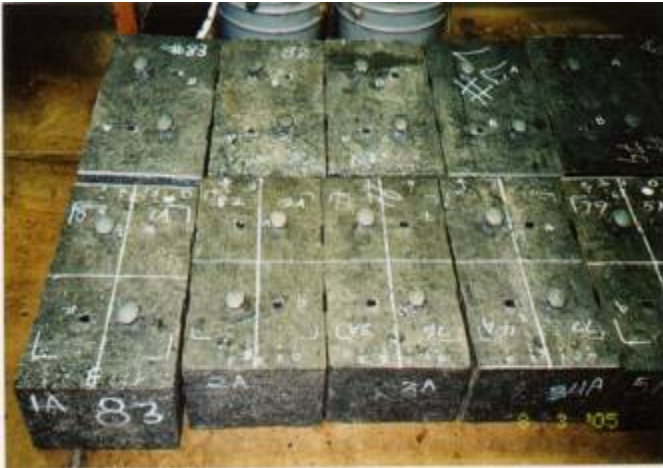
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[Tie Installation Video](#)

# What do we do?



# What testing do we do?



## Tie Math

240 lbs of



= one



## Tie Math

A Production line that produces about 150,000 /year

## Tie Math

would use approximately 3,000,00 lbs/month  
= 3.4 truck loads/day

5% of the market, would require using  
**20 million lbs/month**

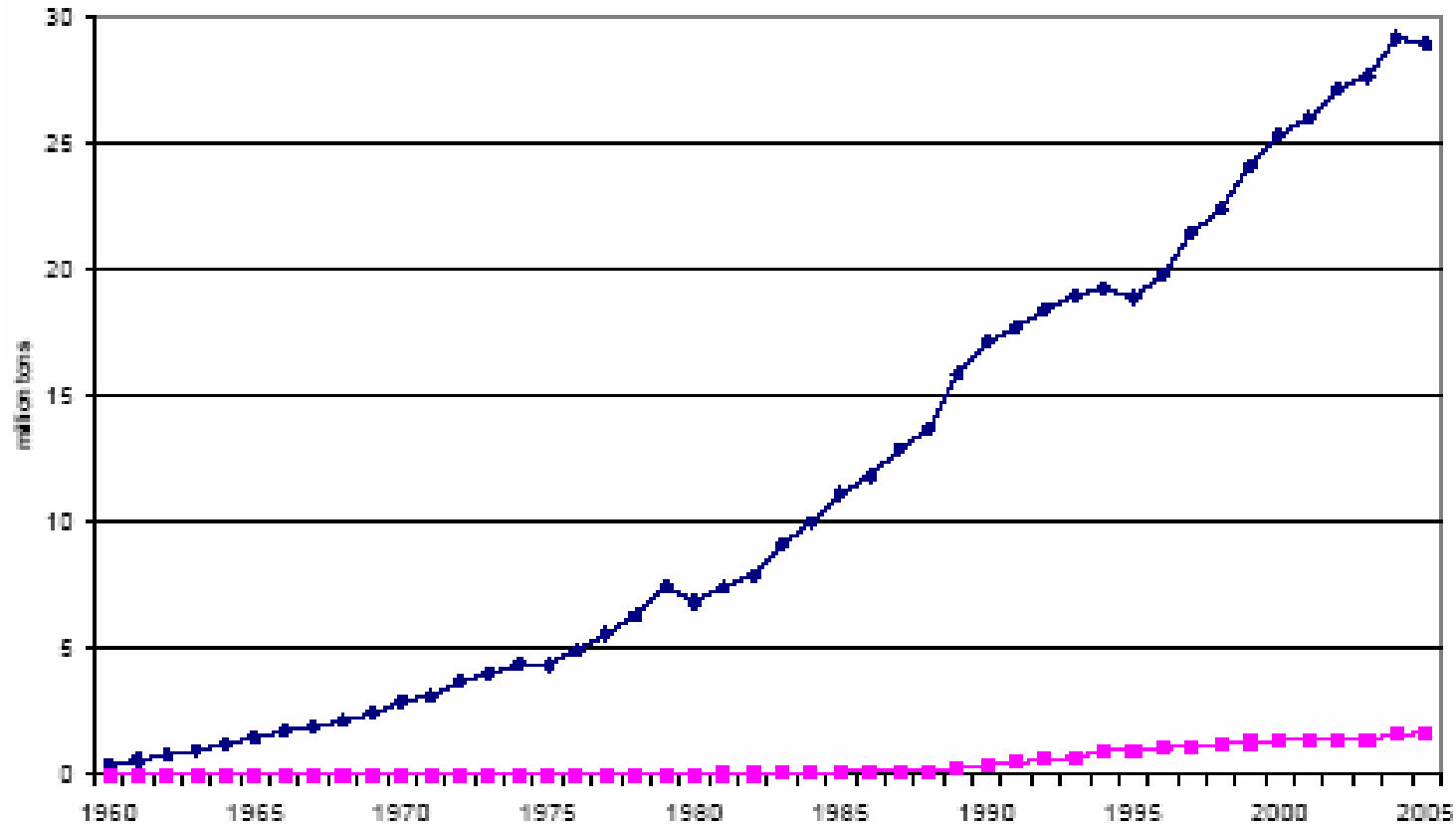
# Why are we presenting?

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Where are we going to get the plastic?

# What plastics are available?

## Plastic Resins and Recycling – EPA Report



1. Is it NOT being currently recycled?
2. Is it a constant stream?
3. Is it of sufficient size?
4. Can it be collected/transported economically?



# Thank you!

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