

*International Tire Conference*

**Tire Fire Response  
and Case Studies**

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# Summary

- **Tracy Tire Fire**
- **Regulations**
- **Other Site and Issues**
- **Questions**

## **Tracy Tire Fire**

- **7 to 8 million tires, unpermitted site**
- **Fire ignited on August 7, 1998**
- **Fire burned until December 2000**
- **Site remediation began on April 2003**
- **Cleanup completed December 2006**
- **Total cost, over \$18 million to abate**
- **T&D costs were \$11.7 million**

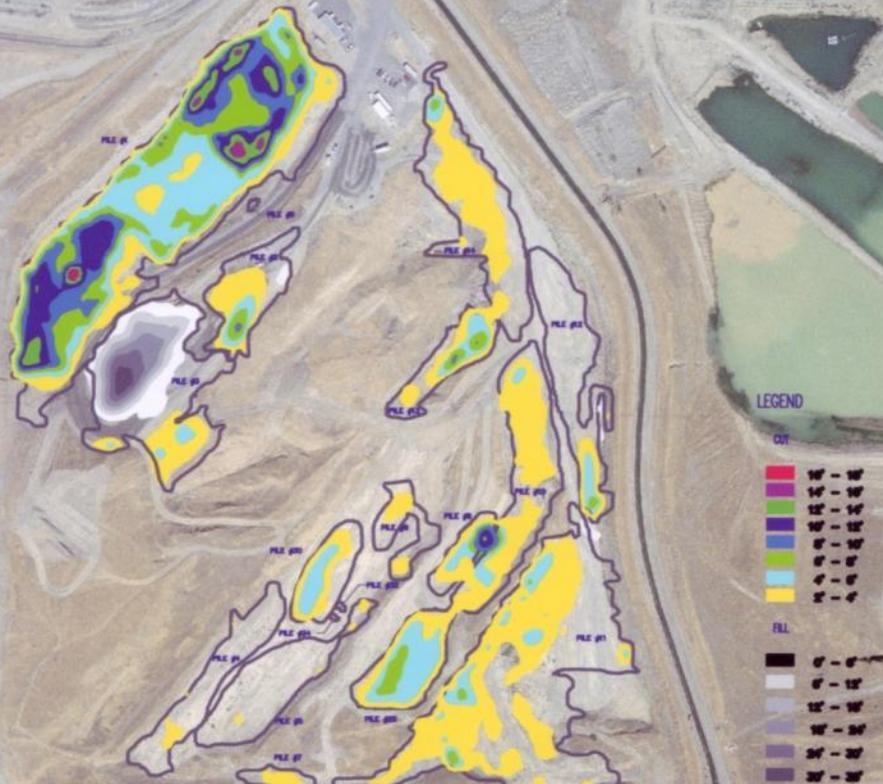
# Remediation

- **Class I Waste**
- **Class II Waste -Pyrolytic Oil**
- **Discovery of plumes and contaminated GW**
- **Full Tracy presentation (88 MB) available at [www.ciwmb.ca.gov](http://www.ciwmb.ca.gov) (Board Agenda Dec 06)**

# Hazardous Waste Removal



**TRACY TIRE SITE  
HAZARDOUS WASTE REMOVAL  
VOLUME CALCULATIONS  
2001-2004**



# Excavation



# Class I

## Class II Waste

- Pyrolytic Oil Ares in Yellow
- Oil discovered at depth



### LEGEND

- SB-01 Soil boring location
- MW-1 Monitoring well location
- Pyrolytic oil-affected soil area

0 100 200 FEET  
Approximate Scale  
Date of aerial photo: March 16, 2004

Class II Waste Pyrolytic Oil-Affected Soil Areas  
with Soil Boring and Monitoring  
Well Locations

Tracy Tire Fire Site, San Joaquin County, California

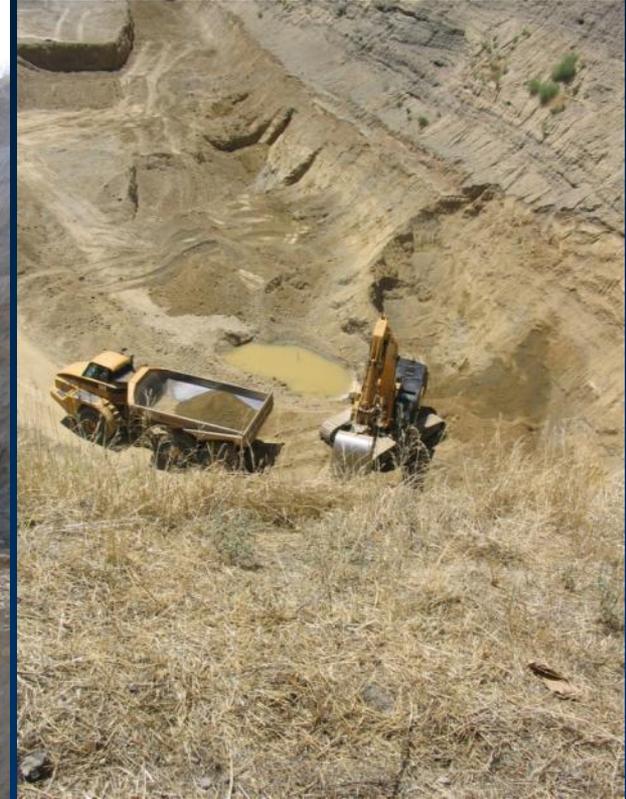


Figure 2

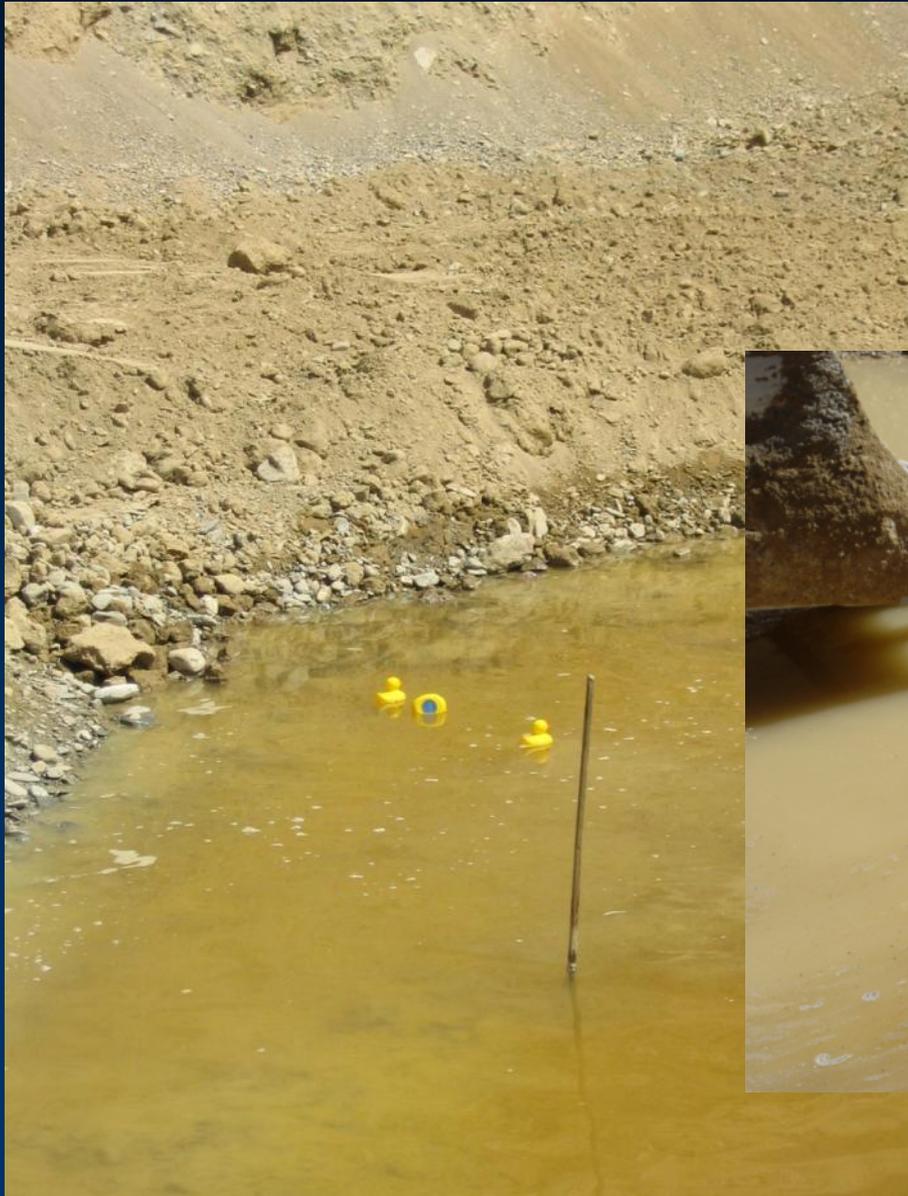
# Assessment of Oil



# Excavation of Oil



# To Groundwater

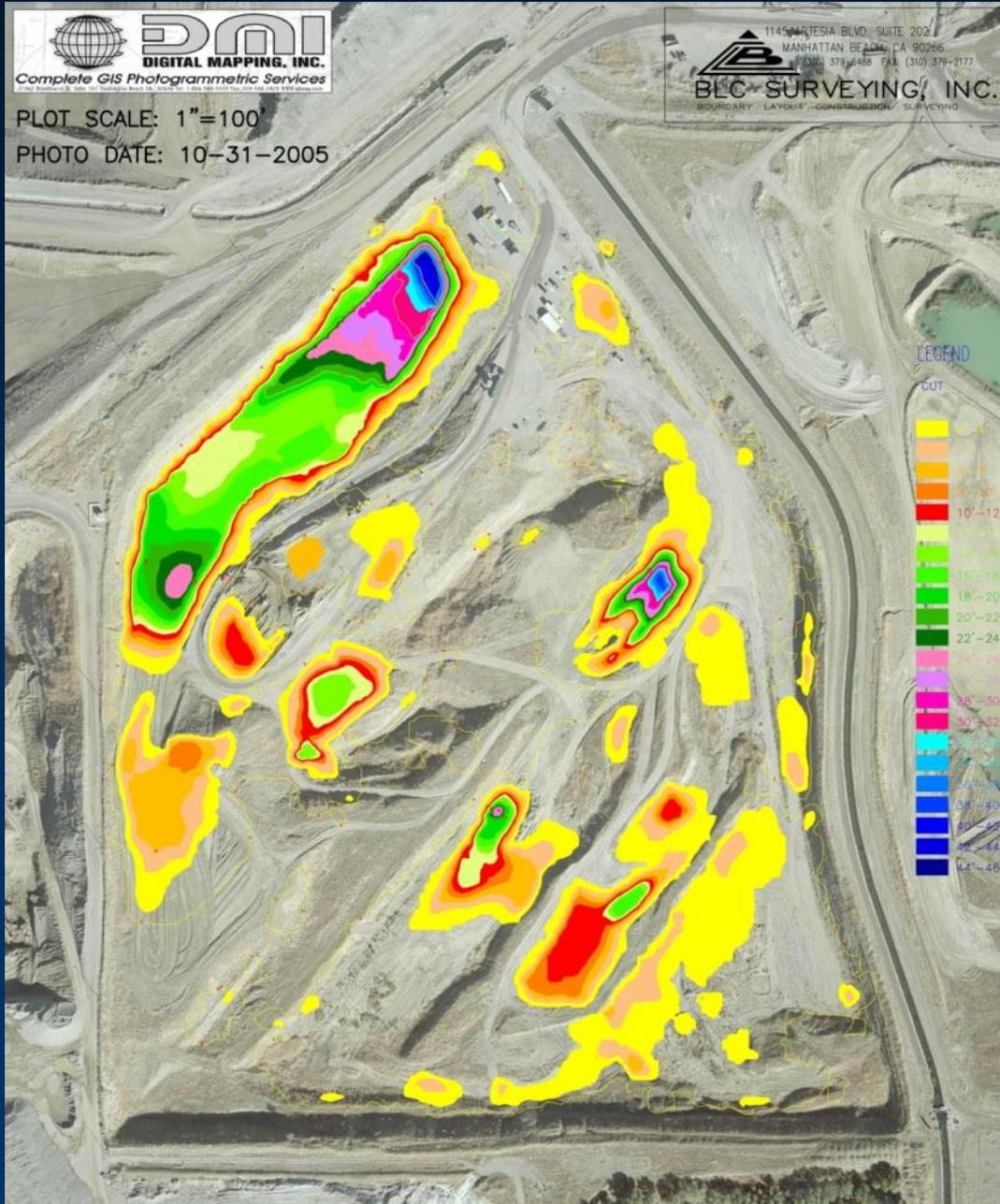


# Slope Removal



# Final Oil Removal





## Final Waste Volumes

# Waste Summary

- Board's contractor removed a total of 387,434.21 tons of ash, debris, and oil
  - 173,482 tons of Class I CA hazardous waste
  - 210,894 tons of Class II waste
  - 3,057 tons of altered tires
- Material transported by 16,159 trucks



# Volume Analogy

- Using the number of waste haulers to remove the 387,000 tons of material, one could park the trucks end to end from Sacramento to Oakland and back



# Remediated



# Lessons Learned

- **Tire Storage vs. Pyrolytic Oil Generation**
  - **Aerial View of the Excavation**

## **Storage of Waste Tires (14 CCR §17354)**

- **Not to exceed 5,000 sf of contiguous area**
- **Not to exceed 50,000 cf or 10 ft in height**
- **Not to exceed 6 ft in height when within 20 ft of any property line**
- **Not to be located within 10 ft of any property line**
- **Separated from vegetation and other potentially flammable materials (inner tubes) by no less than 40 ft**
- **Accessible fire lanes between storage units unobstructed at all times.**

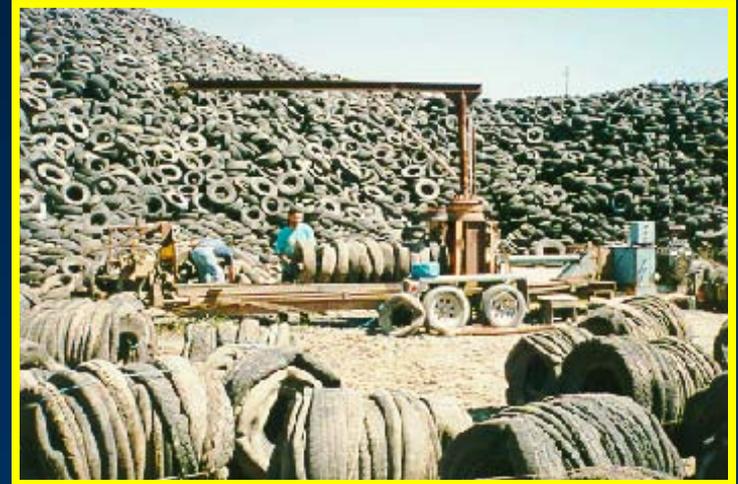
## **Tire Storage**

- **Accessible fire lanes with a minimum width as specified in Table 1 shall be provided between tire storage units**
- **Critical storage issue that is miss**
- **Only APPLIES TO STP**

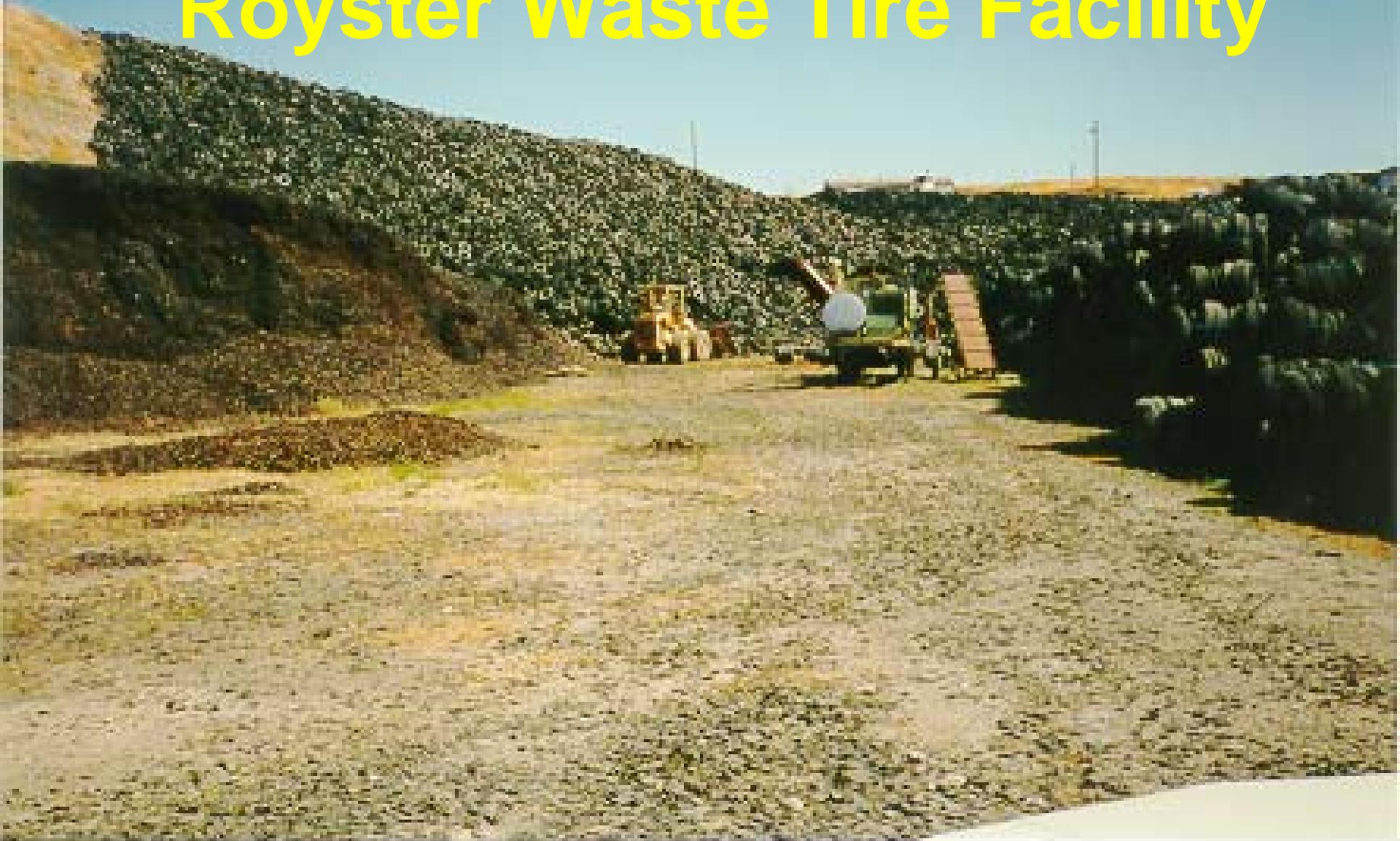
# Table 1

Minimum Separation Distance (Ft)			
Length of Exposed Face (Ft.)	Tire Storage Pile Height (Ft.)		
	6	8	10
25	50	56	62
50	66	75	84
100	84	100	116
150	99	117	135
200	111	130	149
250	118	140	162

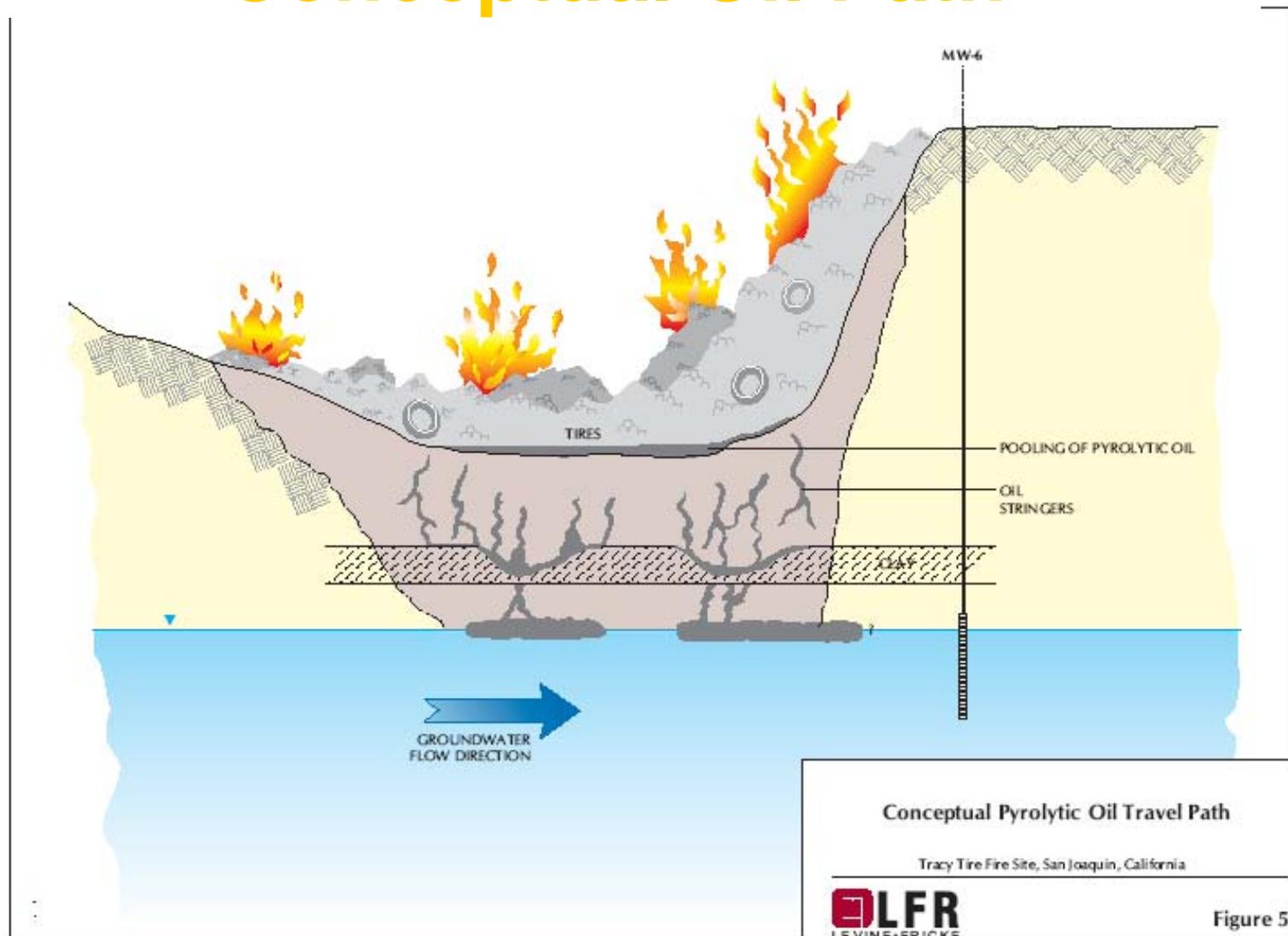
# Case Studies



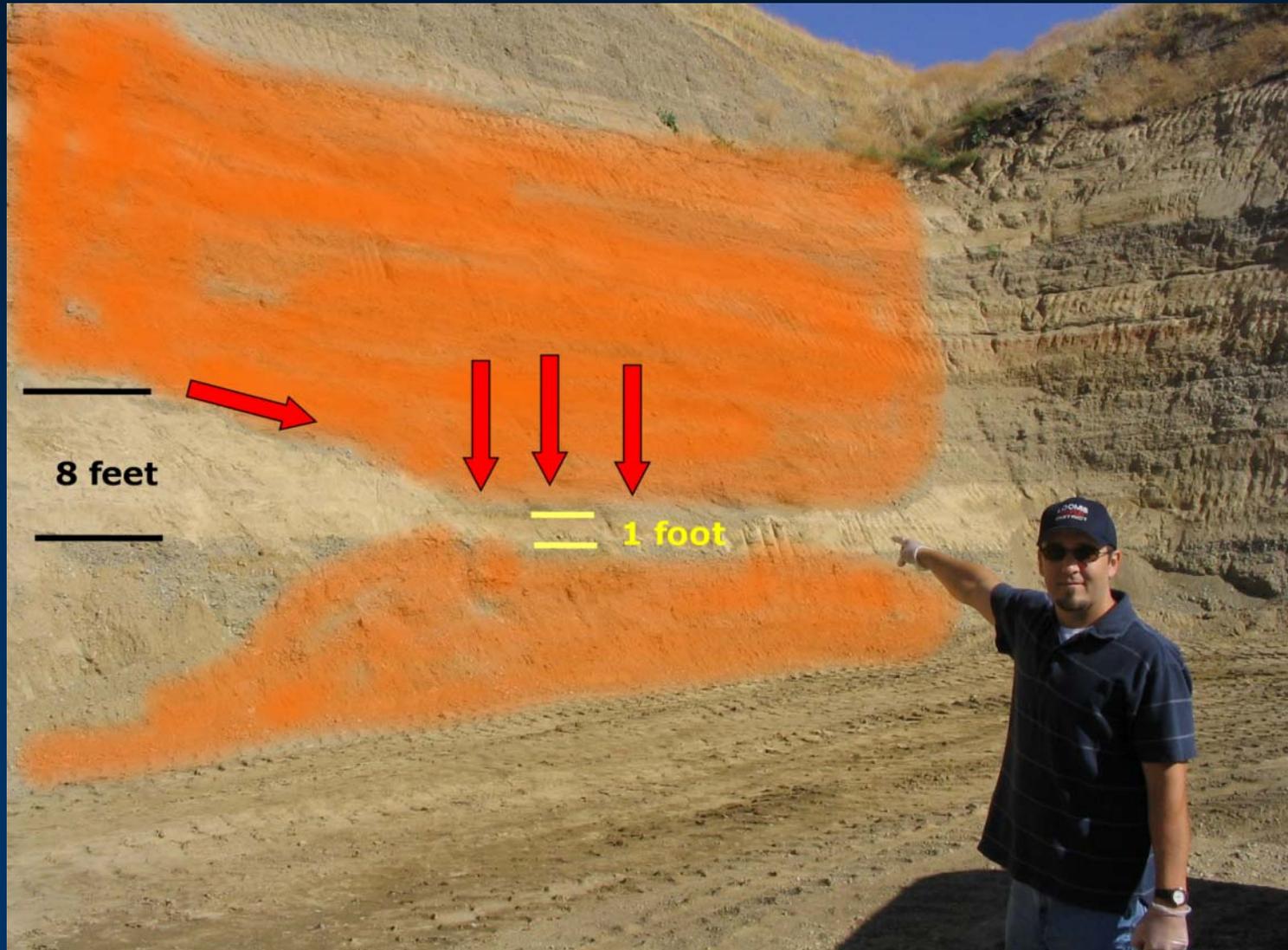
# Royster Waste Tire Facility



# Conceptual Oil Path



# Clay Layer



# See Issues?



# More Issues?



# Ohio Tire Storage



**Issues?**

# Kirby Ohio



# No Issues?



# Question and Comments

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