



# Dry Cleaning 101

## History of Dry Cleaning

- Laundering method using solvents other than water
- 79 A.D. – Pompeii: Ammonia and lye, Fuller’s Earth
- Discovered by accident in Europe
  - Maid spilled lamp oil on table cloth
- 1<sup>st</sup> Commercial Dry Cleaner opened in 1825
  - Jolly-Berlin Corporation, Paris France
  - Vats of turpentine, air dried
- Thomas Jennings – tailor in New York, NY
  - 1821 patent for “Dry Scouring”
  - 1<sup>st</sup> African American to receive a patent
- Petroleum: gasoline, kerosene, mineral spirits
- Chlorinated solvents: CCl<sub>4</sub>, TCE, PCE
- “Green” methods: GreenEarth™, CO<sub>2</sub>



Photo: SCRD

## Early Commercial Dry Cleaning Machines

Washer



Extractor



Dryer

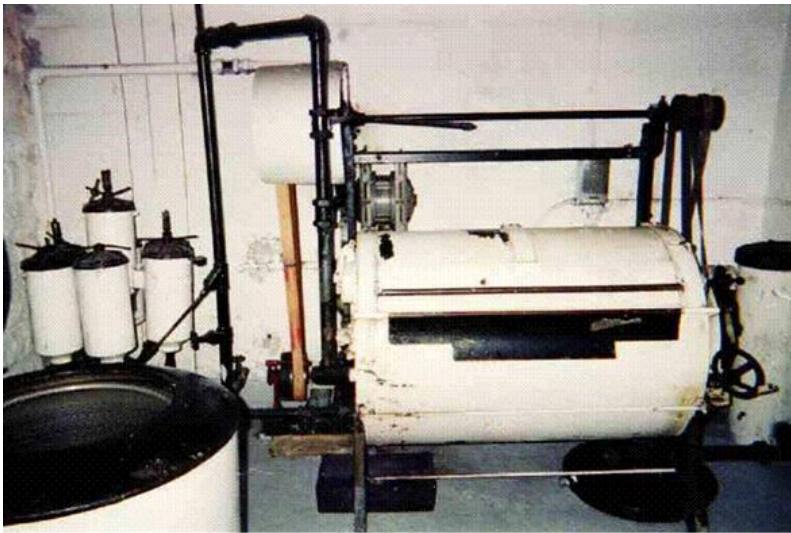


Photo: SCRD

## D.E.R.A. Pollution Prevention Performance Standards

- Annual registration with KDHE
- Storage & disposal of hazardous wastes
  - 60 day accumulation
  - Prohibition of disposal to sewer system
- Secondary containment
- Direct-couple delivery of solvent
- Weekly inspections – Calendar
  - Repair deficiencies within 5 days



Photo: KDHE

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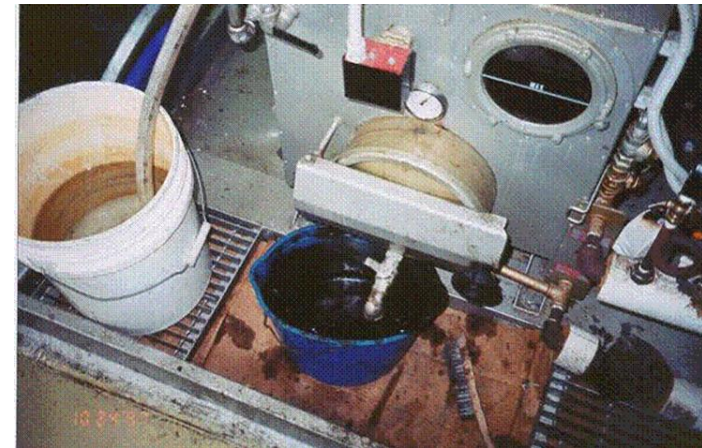
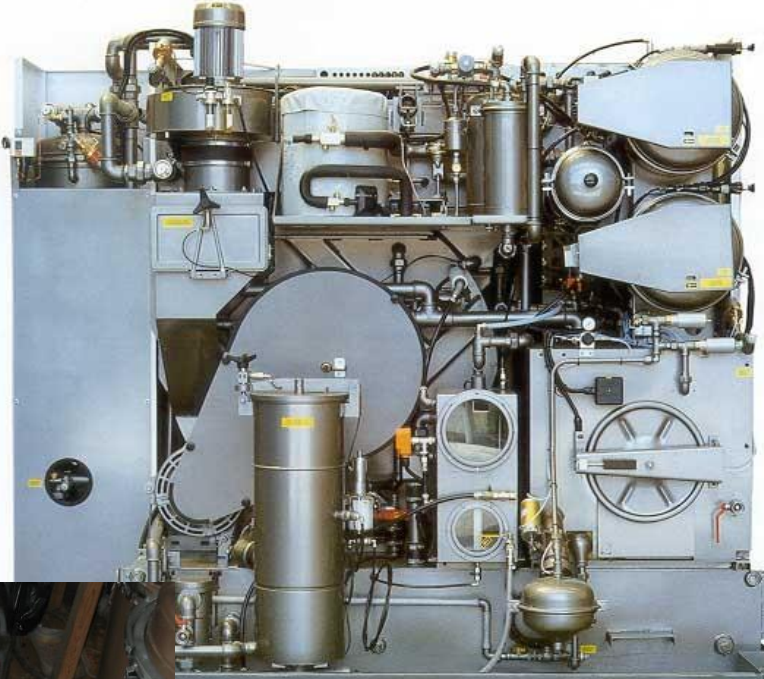


Photo: KDHE

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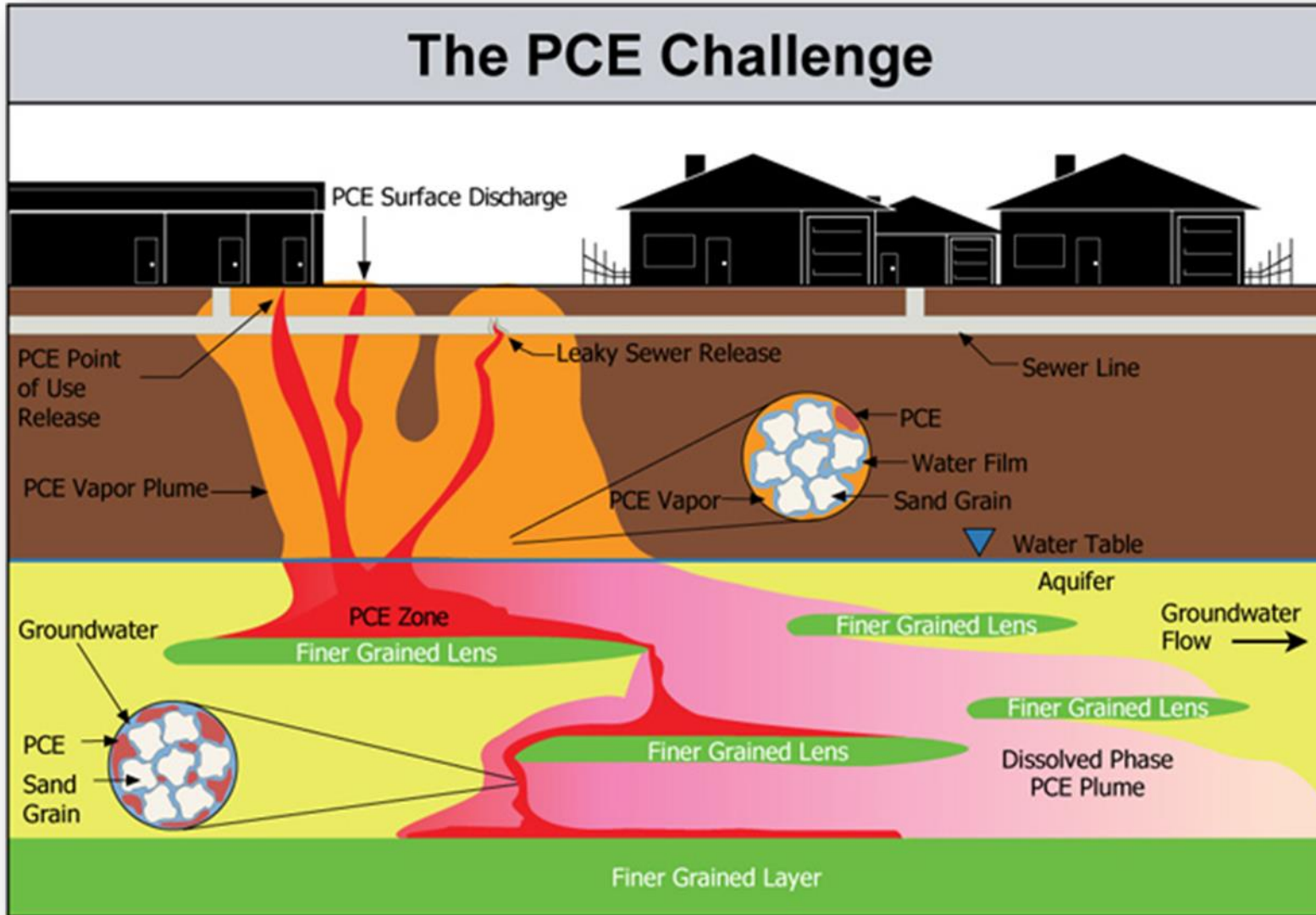


Photo: Washoe County

## Dry Cleaning Facility Release Trust Fund

- 2.5% environmental surcharge on gross register receipts
- Solvent fee – per gallon of solvent purchased
  - \$5.50 – chlorinated solvents
  - \$0.55 – non-chlorinated solvents
- \$5,000 deductible
- Sites may receive up to \$5,000,000 in corrective action
  - Assessment & investigation
  - Monitoring
  - Emergency Actions (drinking water supplies)
  - Remediation of releases
  - Reimbursement



## Assessment & Investigations



Photo: KDHE



## Extensive Contamination

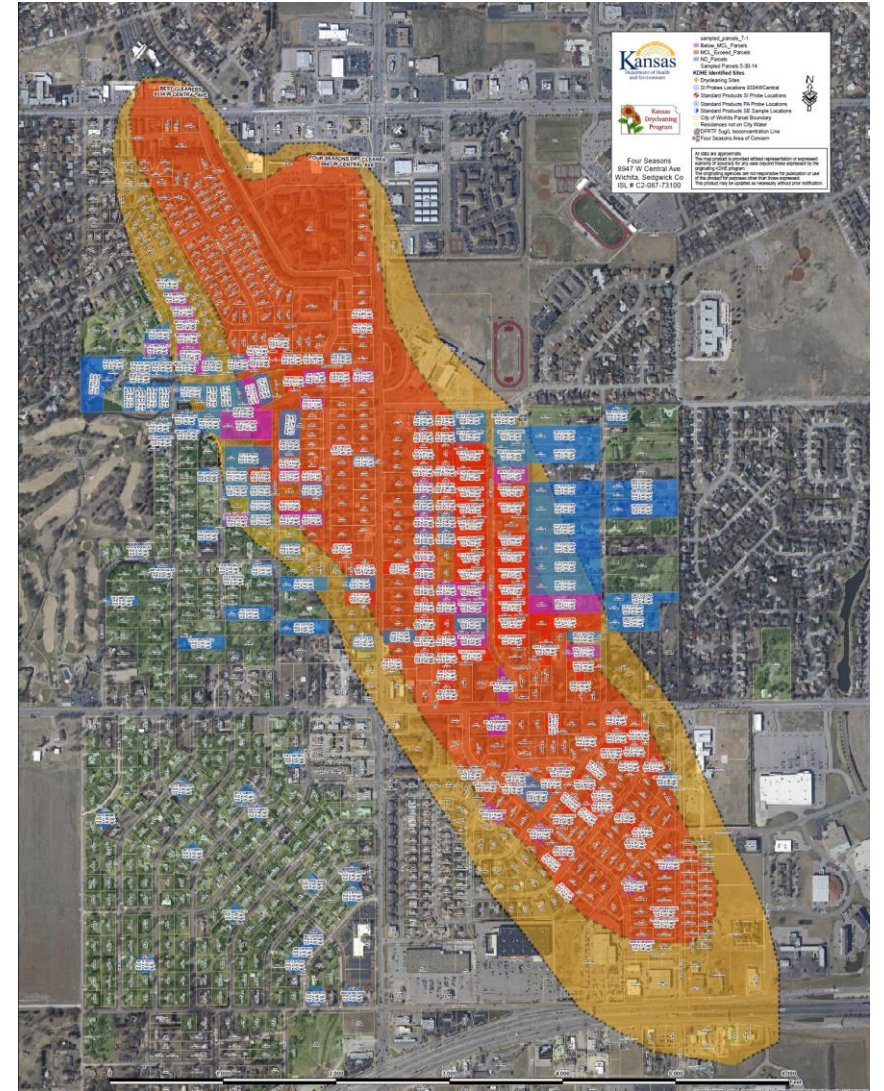
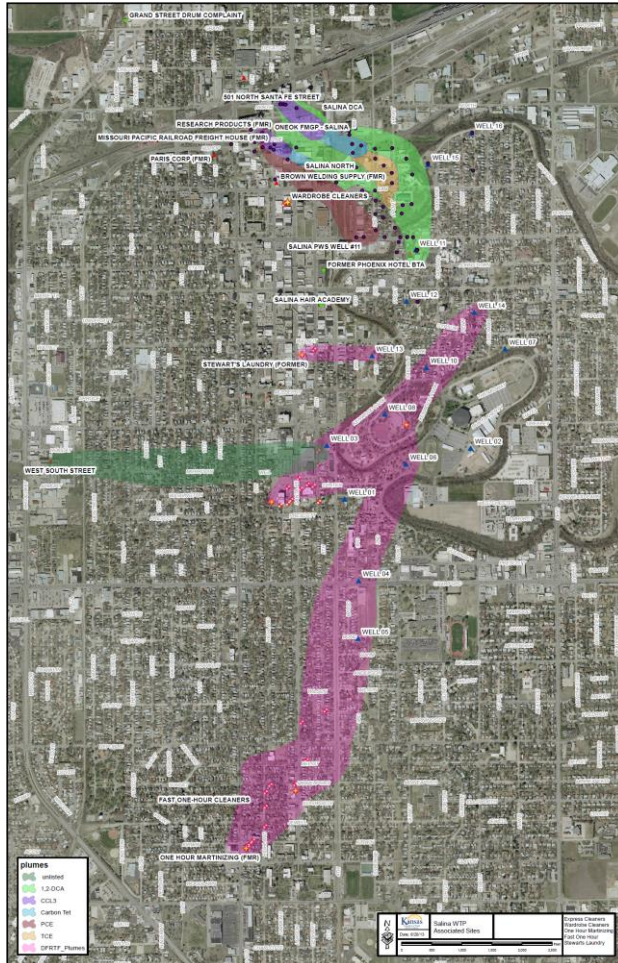
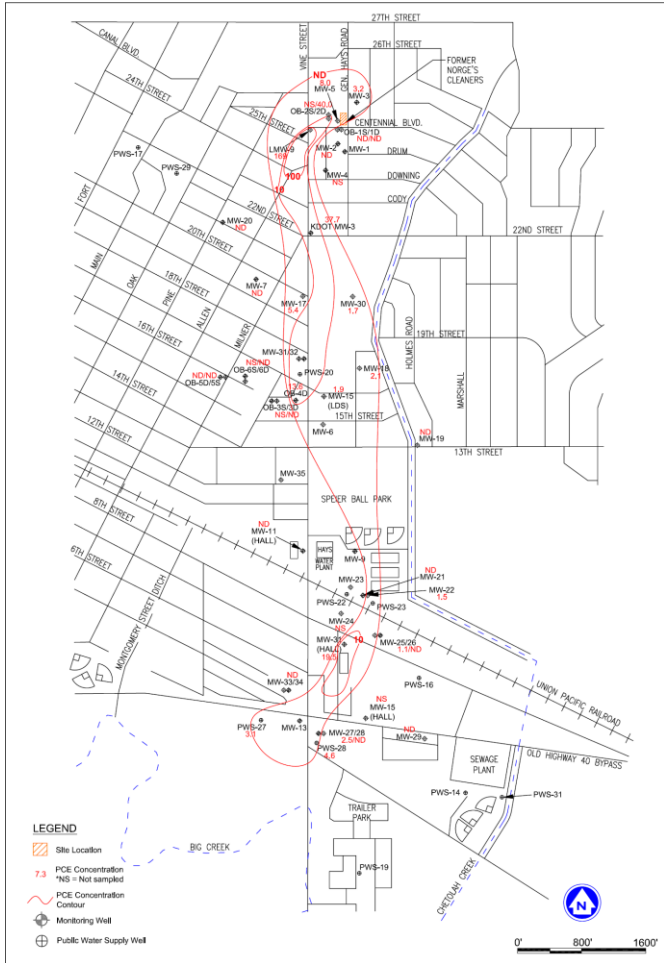


Photo: KDHE

## Expensive Remediation



Photo: KDHE

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## Redevelopment-



Pride Cleaners  
95<sup>th</sup> & Antioch  
Overland Park



Holiday Cleaners - 10824 Shawnee Mission Pkwy



Photo: Upper – KDHE  
Lower - Google



## Future of Dry Cleaning

- IBISWorld Market Research Company
  - 35,000 Dry Cleaners in the US
  - 60 Registered in Kansas
- Casual attire
- Fabric durability
- Color safe fabrics
- Clothing costs decreased
- Small, family-owned businesses
- Operators are retiring
- Environmental concerns
  - Industry movement to environmentally safer solvents



Photo: SCRD

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**Thank you.**

KDHE Dry Cleaner Program  
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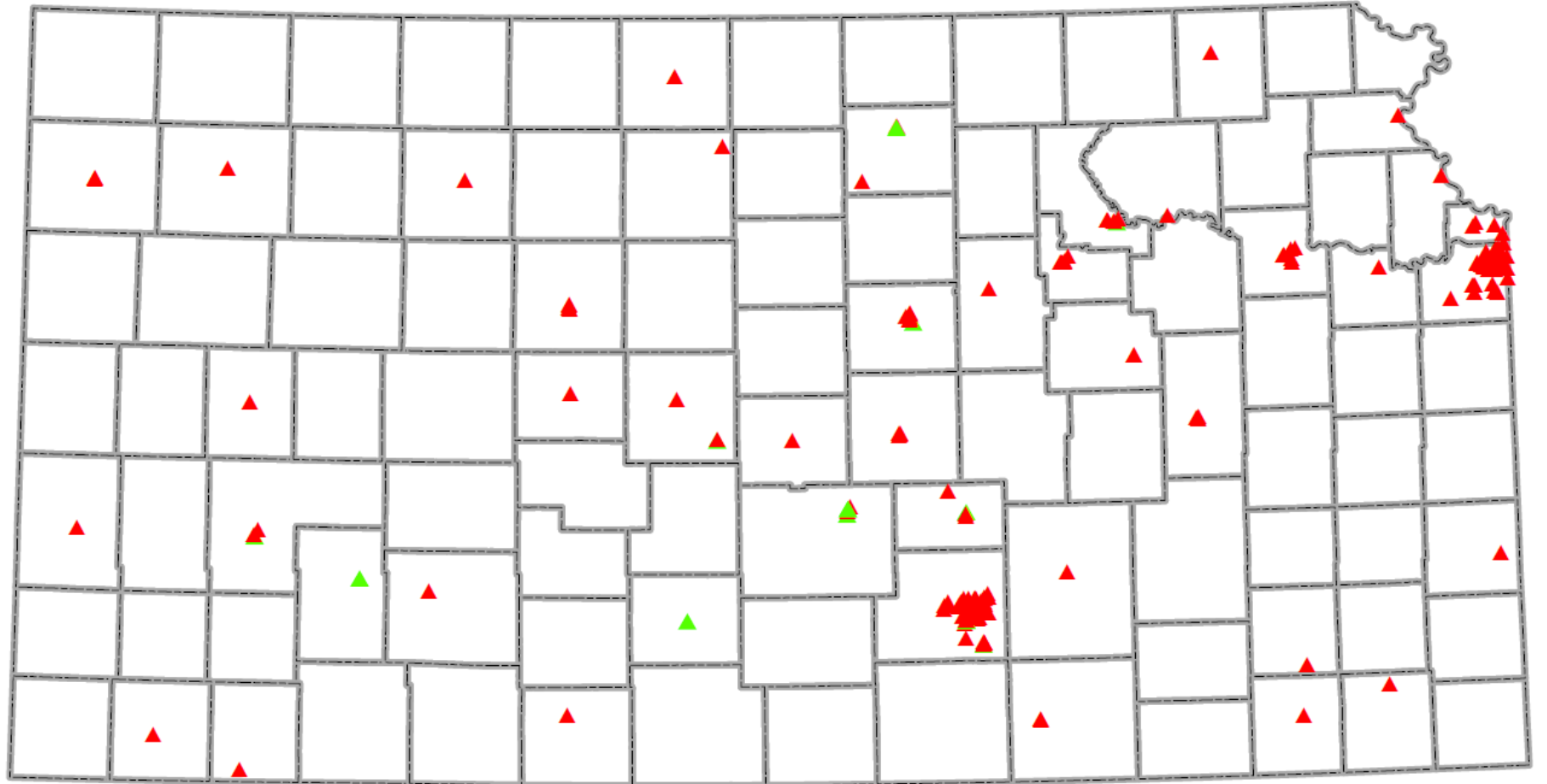


Photo: KDHE