

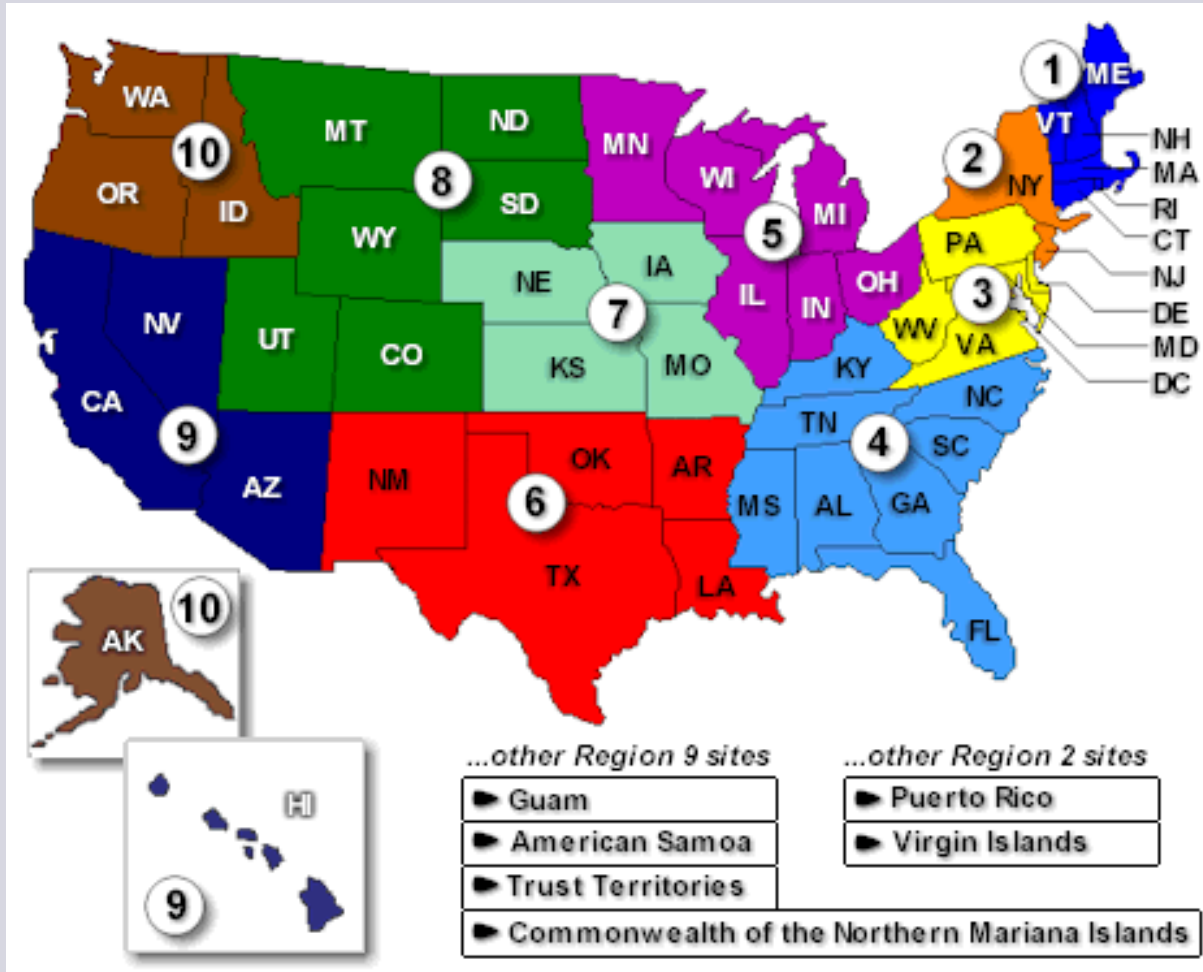
Rockets, Fireworks, and Flares (RFF) Superfund Site

Chino Basin Water Quality Colloquium



May 2, 2019

U.S. EPA





What is Superfund?

- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
- Gives EPA authority to clean up contaminated sites
- Includes liability provisions
- Currently, 1,337 sites in the U.S.

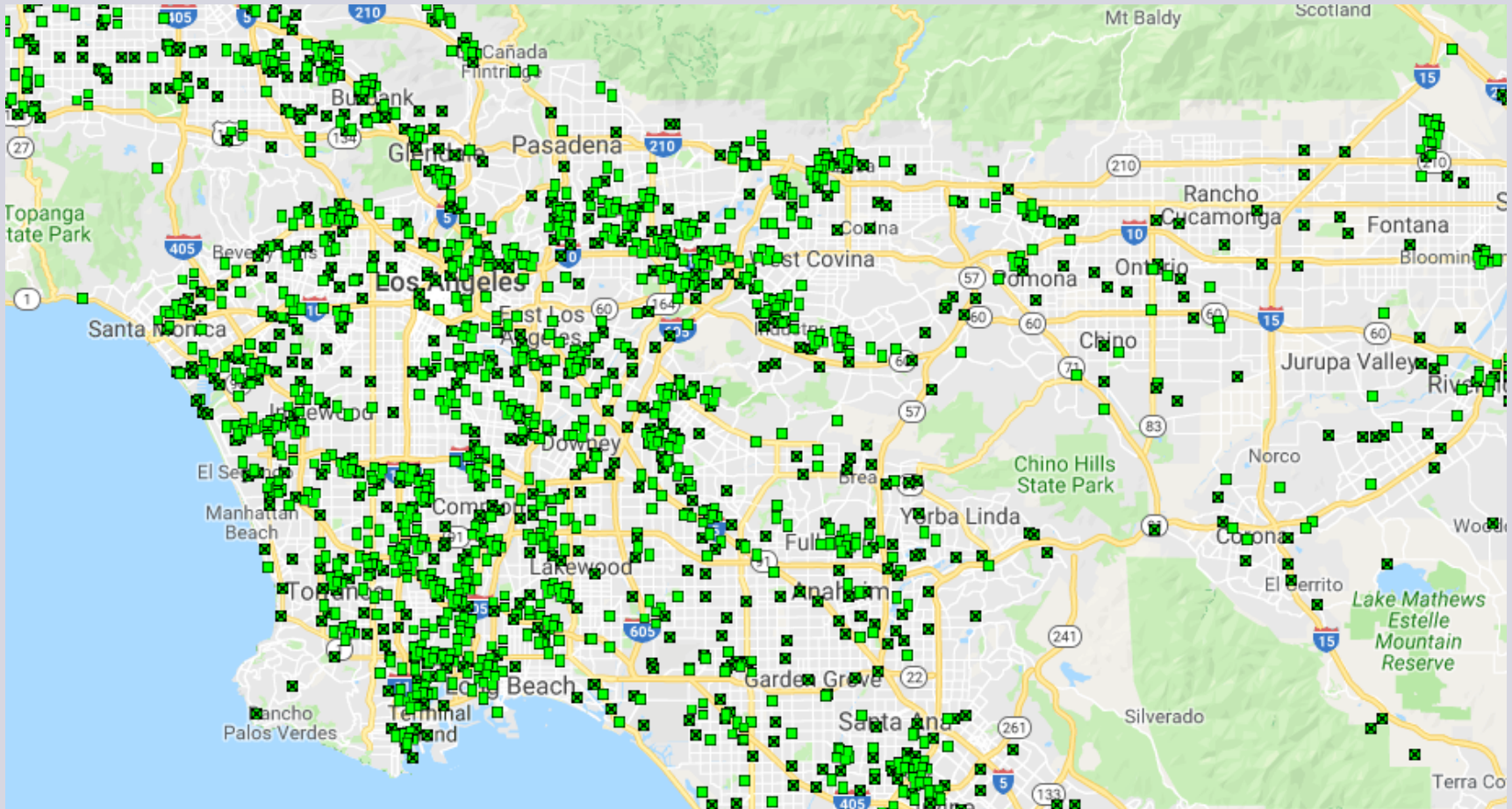
Love Canal, New York (1978)



EPA Superfund Sites in So. Cal



Waterboard Cleanup Sites



Rialto Ammunition Storage Point 1942-1945

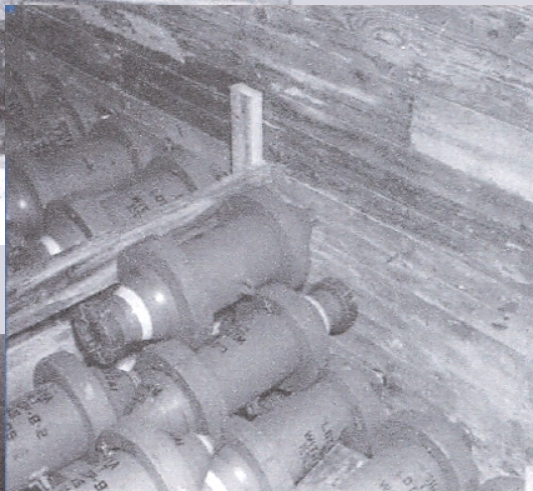
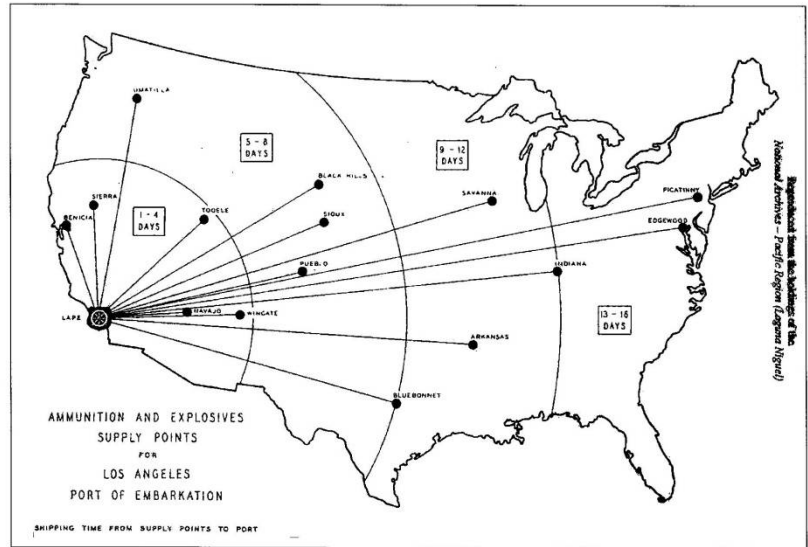
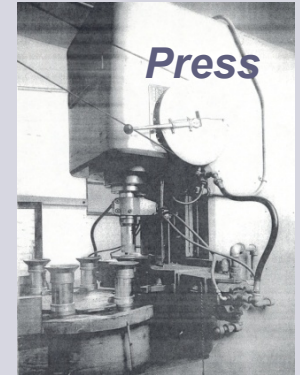
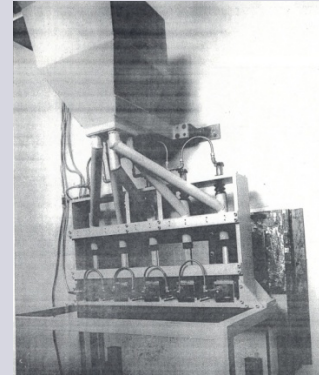


Figure 3-6
Ammunition Depots Supplying
Los Angeles Port of Embarkation (154)



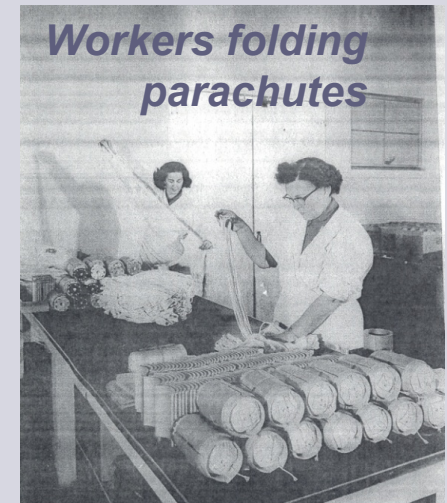
Pyrotechnic Manufacturing 1950s



Flare Manufacturing Building



*Workers folding
parachutes*



Rocket Manufacturing late 1950s – early 1960s



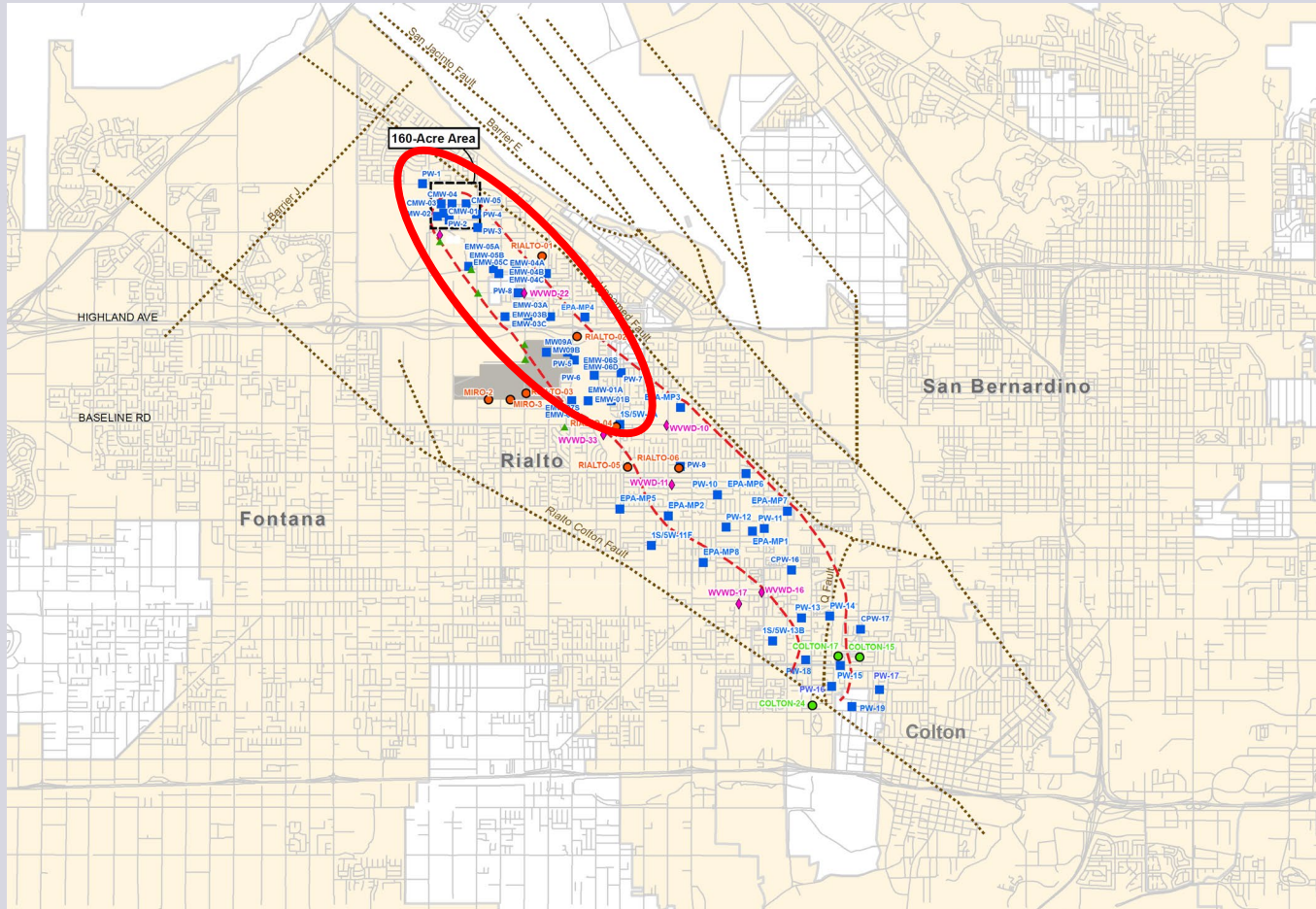
Fireworks Manufacturing and Distribution, 1960s - present



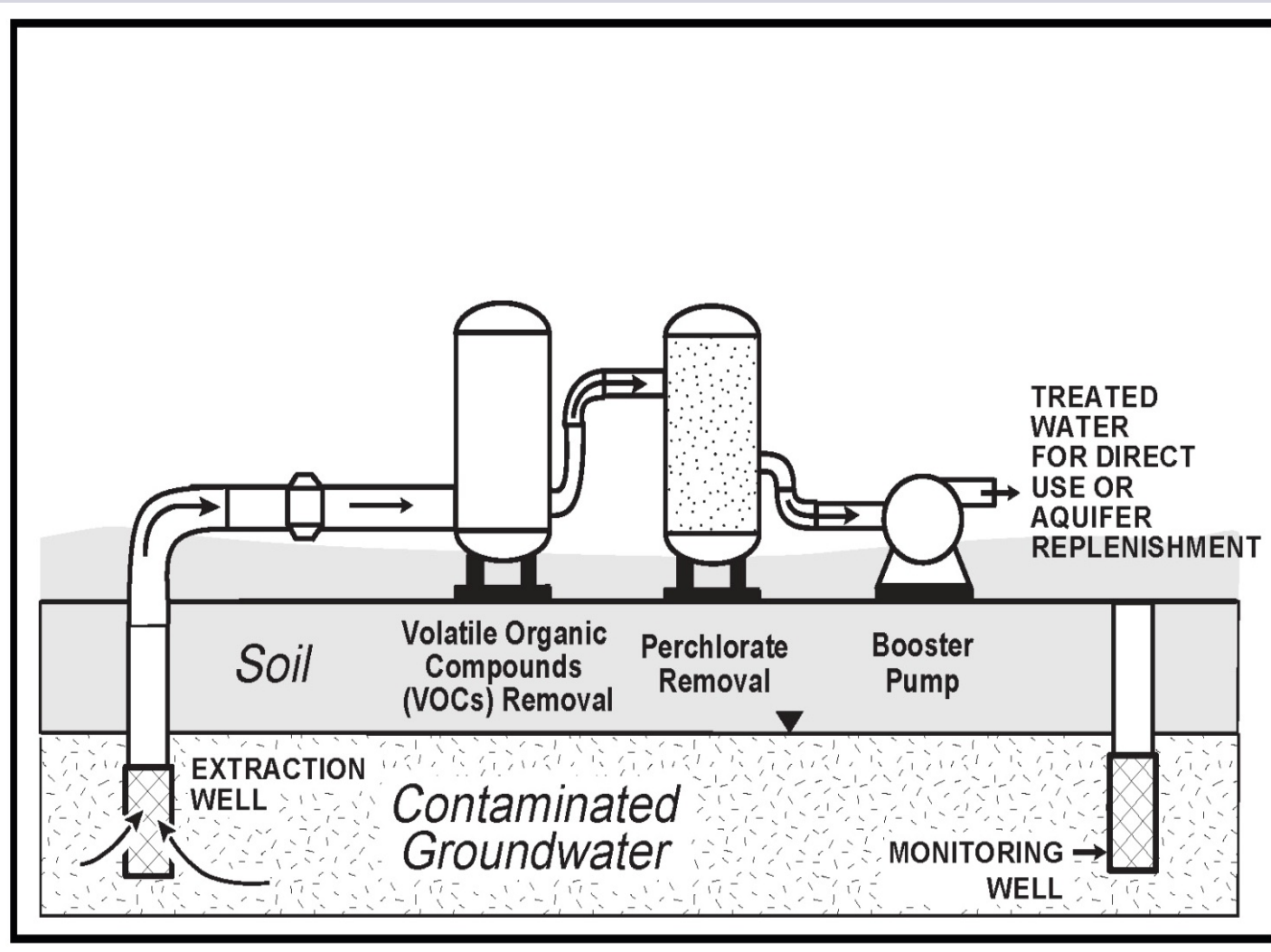
RFF Site - Getting to Cleanup



First Groundwater Cleanup Project Constructed



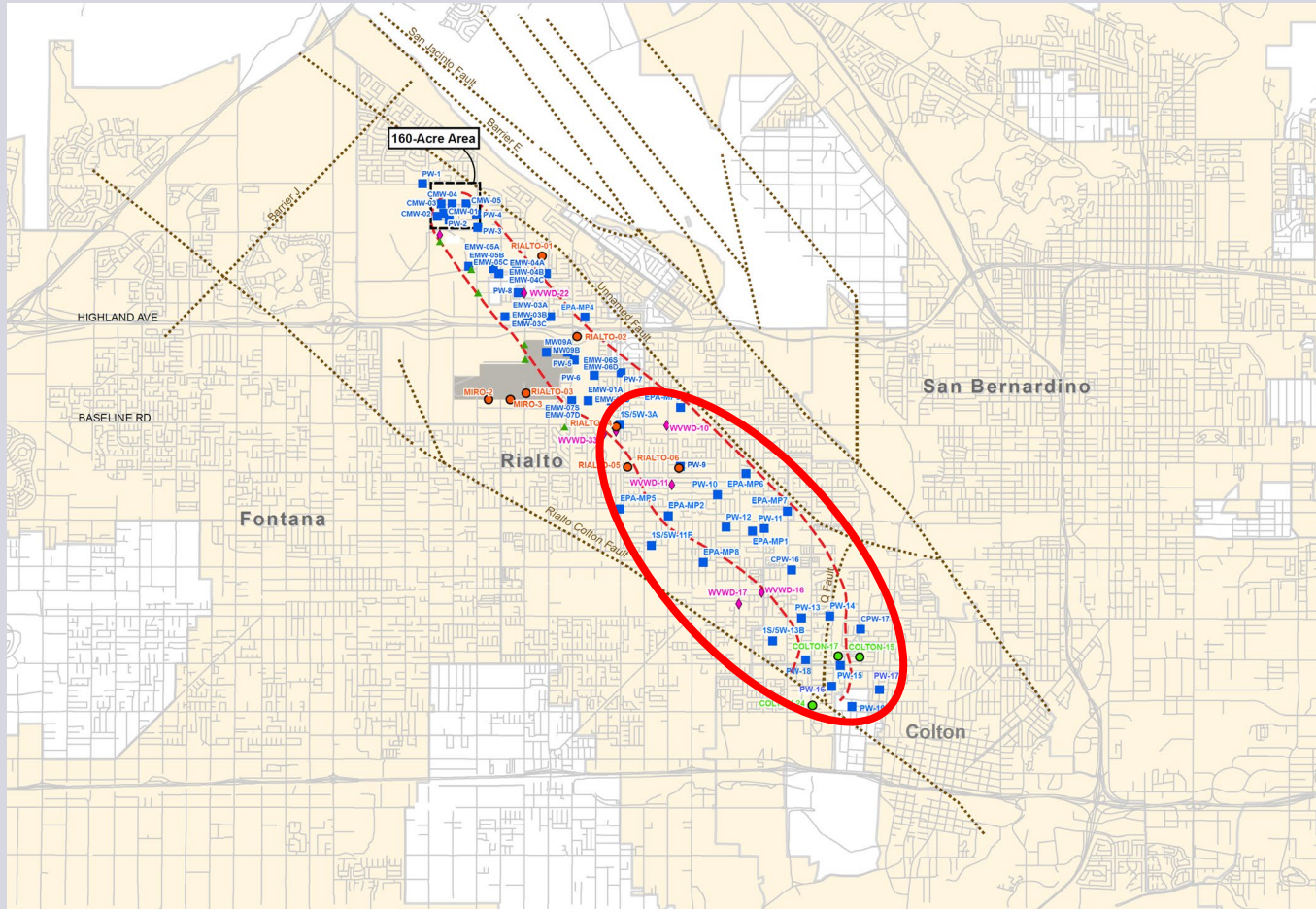
Remedy is "Pump and Treat"



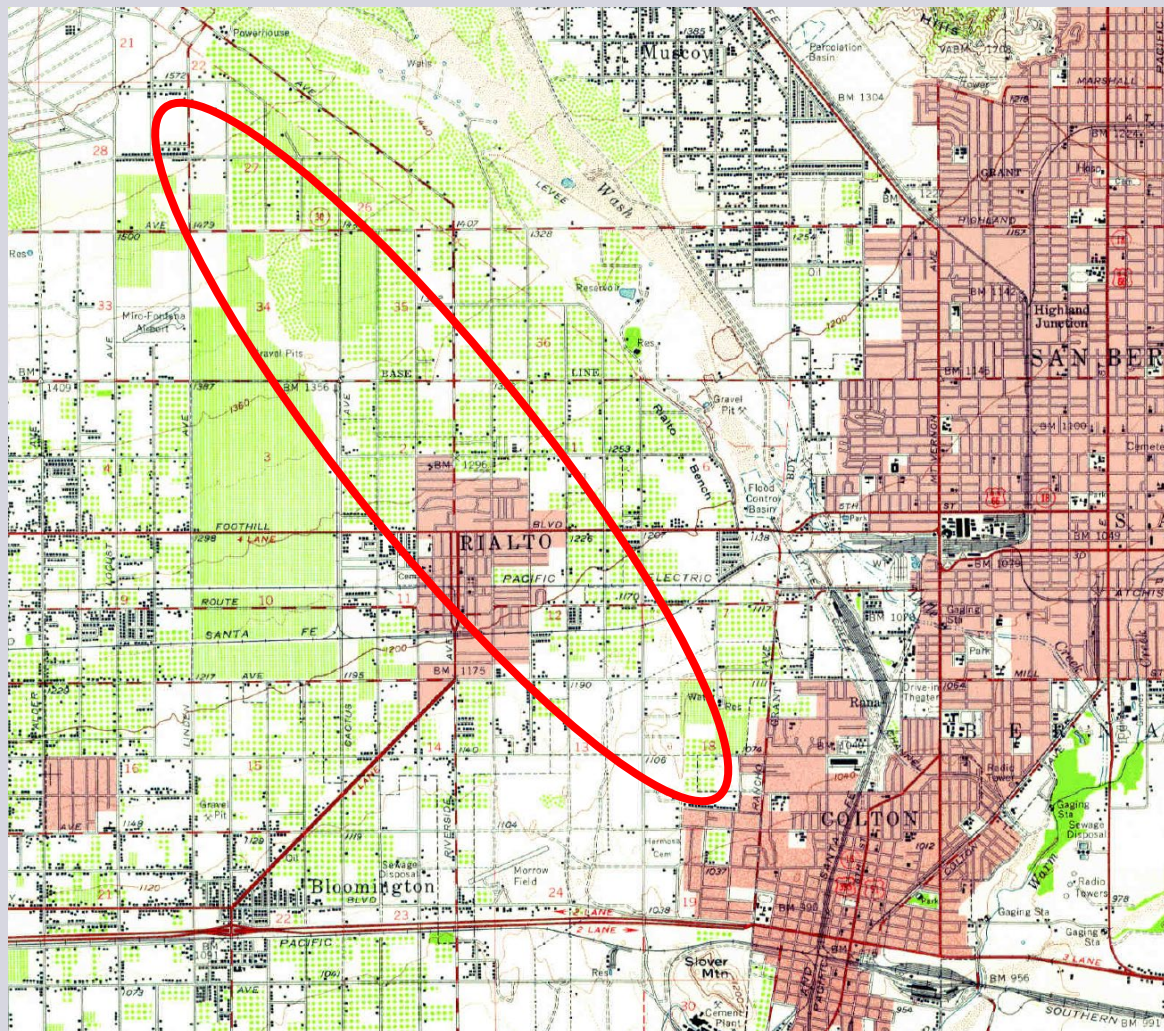
RFF Groundwater Treatment Plant



Second Cleanup Project Planned



Sources of Perchlorate



Who Pays?

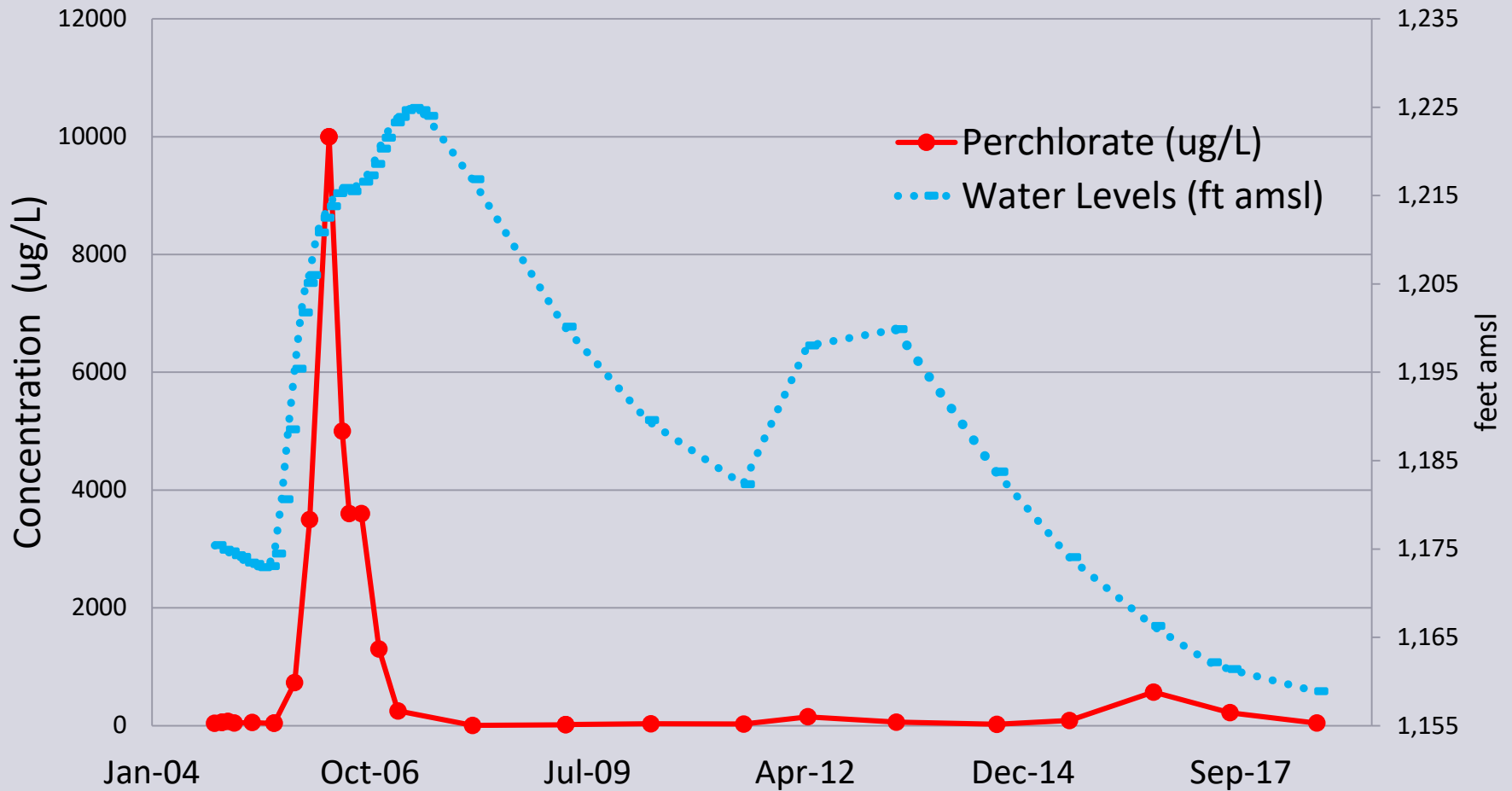


- Federal Consent Decrees require Goodrich Corporation and Emhart Industries to design, construct, and operate groundwater extraction and treatment systems
- Other PRPs contributing to cleanup costs through additional Consent Decrees

How Long to Clean Up?



Well PW2 - Perchlorate and TCE





For More Information

www.epa.gov/superfund/rff

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