

B.F. Goodrich Superfund Site



EPA/CDPH Community Meeting
December 2, 2009



What is Superfund?

- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
- Gives EPA authority and funding to clean up contaminated sites
- Includes liability provisions



The BF Goodrich Site

- Added to the Superfund “National Priorities List” in September 2009
- One of 1,270 sites in the U.S.
- Superfund status...
 - ... commits EPA resources to the site
 - ... makes funds available for long-term cleanup
 - ... ensures community involvement



BF Goodrich Site

Why Make it a Superfund Site?

- Municipal drinking water wells closed due to chemical contamination in the groundwater
- More wells are threatened
- Local groundwater is an important source of drinking water
- State cleanup efforts stalled by legal challenges



BF Goodrich Site

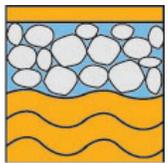
What is it?

- The site includes...



Soil

... contaminated soil and groundwater in an industrial area known as the “160-acre area”



Groundwater

... contaminated groundwater that has spread from the 160-acre area



BF Goodrich Superfund Site



What Chemicals are in the Groundwater?

Perchlorate is a component of flares, rockets, and fireworks

Trichloroethylene (TCE) is an industrial cleaning solvent



Is There an Immediate Health Risk?

No

Soil contamination limited to the 160 acre area

Drinking water is regularly tested for compliance with EPA and State standards

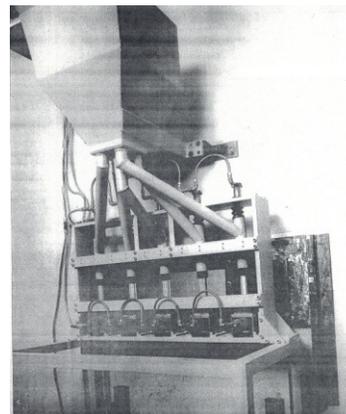


What are the Sources of the Contamination?

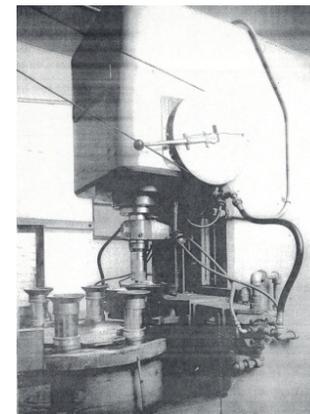


Pyrotechnic Manufacturing 1950s

Flare Manufacturing Building



Pyrotechnic
Machine



Press

Workers folding parachutes



Rocket Manufacturing 1950s - 1960s





Fireworks Manufacturing 1960s - present

What are EPA's goals?

- Make sure there are no immediate health risks
- Begin groundwater cleanup in the most contaminated area as soon as possible
- Evaluate need for additional clean up of soil and groundwater
- Implement community activities





EPA Superfund Process

Remedial Investigation (RI)



Feasibility Study (FS)



Cleanup plan



Cleanup



Groundwater Monitoring Well Installation (2009)



Efforts to Date (2002-present)

- Testing of soil, soil vapor, groundwater
- To determine sources, nature, and extent of contamination





2009 Efforts

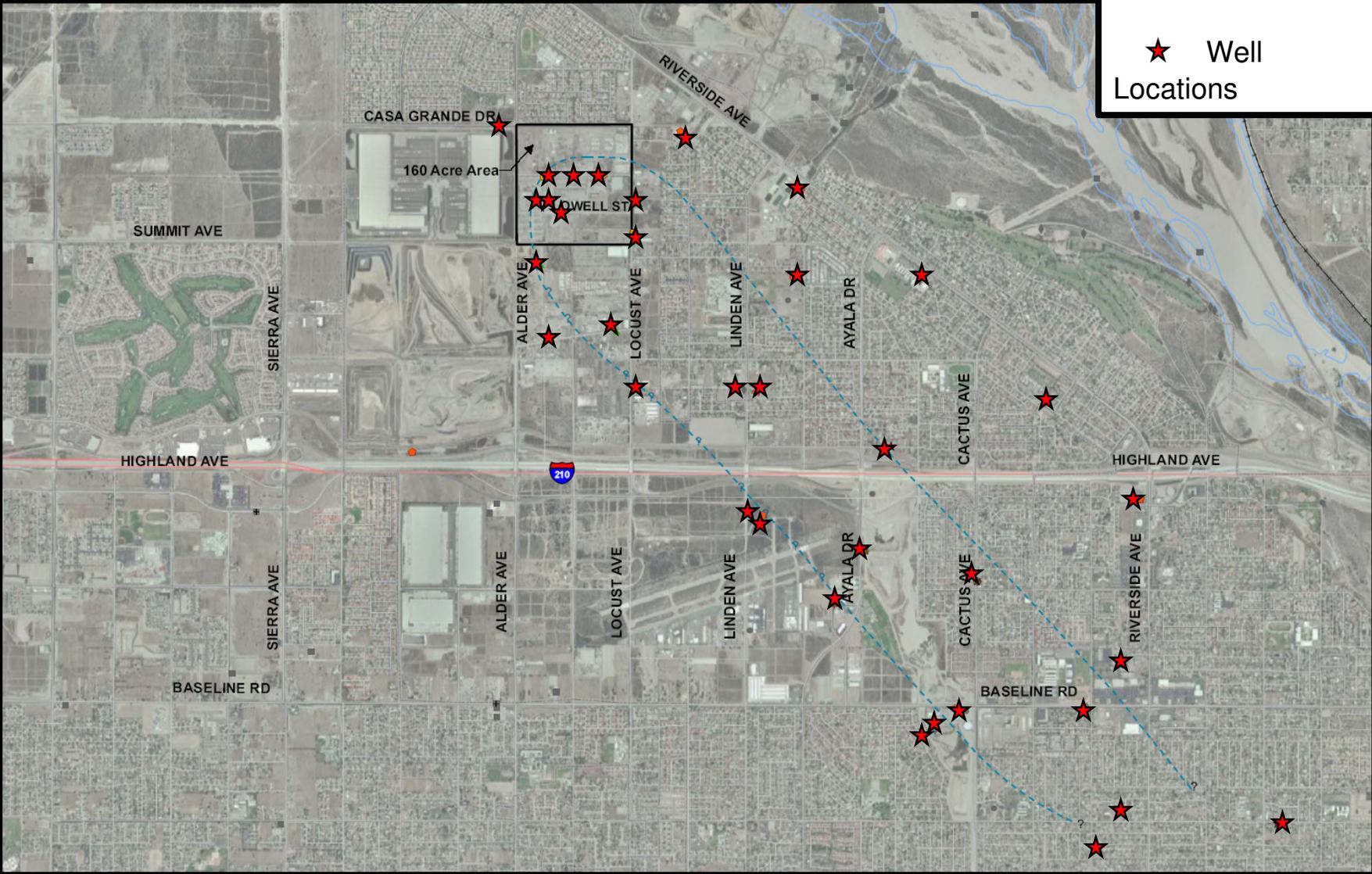
- \$2 - \$3 million EPA effort to install network of groundwater monitoring wells



BF Goodrich Superfund Site

Legend

- ★ Well Locations



Next Steps

- Plan for first groundwater cleanup project
- Public comment
- Adopt cleanup plan
- Continue testing
- Evaluate need for additional soil and groundwater cleanup



Questions?

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Visit: <http://www.epa.gov/region9/bfgoodrich>



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B.F Goodrich

EPA #: CAN000905945
State: California(CA)
County: San Bernardino
City: Rialto, CA
Congressional District:
Other Names: Rialto-Colton

Bulletin Board

- In September 2009, EPA added the B.F. Goodrich Site to the National Priorities List.
- A \$2 million EPA program is underway to install six 900' groundwater monitoring wells.
- EPA expects to complete a proposal to begin cleanup of contaminated groundwater at the site in January 2010.

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Links

Santa Ana Water Board:
<http://www.waterboards.ca.gov/santaana/>
State Water Resources Control Board:
http://www.waterboards.ca.gov/public_notices/petition

Description and History

NPL Listing History

NPL Status: Final
 Proposed Date: 09/03/2008
 Final Date: 09/23/2009
 Deleted Date:

The B.F. Goodrich Site includes a 160-Acre Area in Rialto, California where volatile organic compounds (VOCs) and perchlorate have contaminated soil and groundwater. The Site also includes areas of groundwater contamination downgradient of the 160-Acre Area. The 160-Acre Area is bounded by West Casa Grande Drive on the north, Locust Avenue on the east, Alder Avenue on the west, and an extension of Summit Avenue on the south.

Most or all of the Site is located in the Rialto-Colton Groundwater Basin in western San Bernardino County, California. The Basin is an important source of drinking water to residents and businesses in the cities of Rialto, Colton, and Fontana.

The 160-Acre Area was part of a larger area acquired by the United States Army in 1942 to develop an inspection, consolidation, and storage facility for rail cars transporting ordnance to the Port of Los Angeles. Since the United States sold the Rialto property in 1946, a portion of the property has been used by defense contractors, fireworks manufacturers, and other businesses that used perchlorate salts and/or solvents in their manufacturing processes or products. In 1956 and 1957, West Coast Loading Corporation manufactured and tested two products, photoflash flares and "ground-burst simulators," containing potassium perchlorate. From about 1957 to 1962, B.F. Goodrich Corporation conducted research, development, testing, and production of solid-fuel rocket propellant containing ammonium perchlorate, and used solvents in the manufacturing process. Since the 1960s, the 160-Acre Area has been used by a number of companies that manufactured or sold pyrotechnics, including Pyrotronics, Pyro Spectaculars, and American Promotional Events.

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Contaminants and Risks

Contaminated Media:



Groundwater



Soil and Sludges

Documents and Reports

Fact Sheets

- 03/25/09 [Installation of Groundwater Monitoring Wells / Instalación de Pozos de Monitoreo de la Agua Subterránea](#)
- 07/13/09 [Installation of Groundwater Monitoring Wells \(4th Location\) / Instalación de Pozos de Monitoreo de la Agua Subterránea \(4ta Ubicación\)](#)

Technical Documents

- 03/24/05 [Draft Remedial Investigation Report, prepared by GeoSyntec Consultants](#)
- 10/21/06 [Draft Additional Interim Remedial Investigation Report, Prepared by GeoSyntec Consultants](#)
- 04/22/08 [Draft Site Inspection Report, Perchlorate, Trichloroethene and Other Hazardous Substances Within the Rialto-Colton Groundwater Basin, prepared by DPRA](#)
- 03/09/09 [EPA Field Sampling Plan for Soil, Soil Gas, and Groundwater Testing, prepared by CH2M Hill](#)

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Community Involvement

Public Meetings:

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Public Information Repositories



The public information repositories for the site are at the following locations:

The most complete collection of documents is the official EPA site file, maintained at the following location:

Superfund Records Center
 Mail Stop SFD-7C
 95 Hawthorne Street, Room 403
 San Francisco, CA 94105
 (415) 536-2000

Enter main lobby of 75 Hawthorne street, go to 4th floor of South Wing Annex.

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Additional Links

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Contacts

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|---------------------------------------|----------------|--------------------------------|------------------------|---|
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| EPA Community Involvement Coordinator | Alejandro Diaz | 415-972-3242 1-800-231-3075 | Diaz.Alejandro@epa.gov | Mail Code SFD63 75 Hawthorne Street San Francisco, CA 94105 |
| EPA Public Information Center | | 415-947-8701 | r9.info@epa.gov | |
| State Contact | | | | |
| PRP Contact | | | | |
| Community Contact | | | | |