



Remediation Section Update and Voluntary Cleanup Program Case Studies

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Environmental Update 2015



Presentation Overview

- **Remediation Section Update**
- **VCP Overview and Update**
- **VCP Case Studies**



Remediation Section Update

Superfund

- Pre-Remedial work continues
- NPL Listing Update
- Preparing for O&M





RCRA and Federal Facilities

RCRA – Corrective Action

- 6 NDEQ lead sites
- Working on Corrective Active authorization
- RCRA to VCP Deferral



Federal Facilities

- Active cleanup at 3 active and 13 former DOD sites
- Many are PBCs





Brownfields

- Phase I and 2 assessments for local governments and non-profits (sites may be privately owned)
- 16 completed in 2014
- Brownfields inventories
- Asbestos cleanup cost-share
- Other services include data gap reviews, comfort letters





VCP Overview

- Fee-based oversight of properties in voluntary cleanup
- Applicant must thoroughly characterize the site, complete approved Remedial Action Plan (RAP), and submit report demonstrating remedial goals met → NFA letter



VCP Overview

- 22 sites active, 17 completed
- Variety of sites, including dry cleaners, FMGPs, former grain storage, trap range
- Flexibility of program allows range of remedial activities and encourages use of innovative technologies
- Program shifting to sites entering earlier



Case Study – Fremont Trap Range

- Trap range from 1948-1990s
- City received EPA cleanup grant
- 278,000 lbs of lead removed via sieve
- Resampling post-sieving still indicated significant lead > 400mg/kg
- Cleanup much larger than originally thought





Case Study – Fremont Trap Range

- Soil stabilized and disposed of at “Subtitle D” facility
- Cleanup to unrestricted land use (400 ppm)
- Approx. 2 years to receive NFA letter





Case Study – former Nebraska Solvents

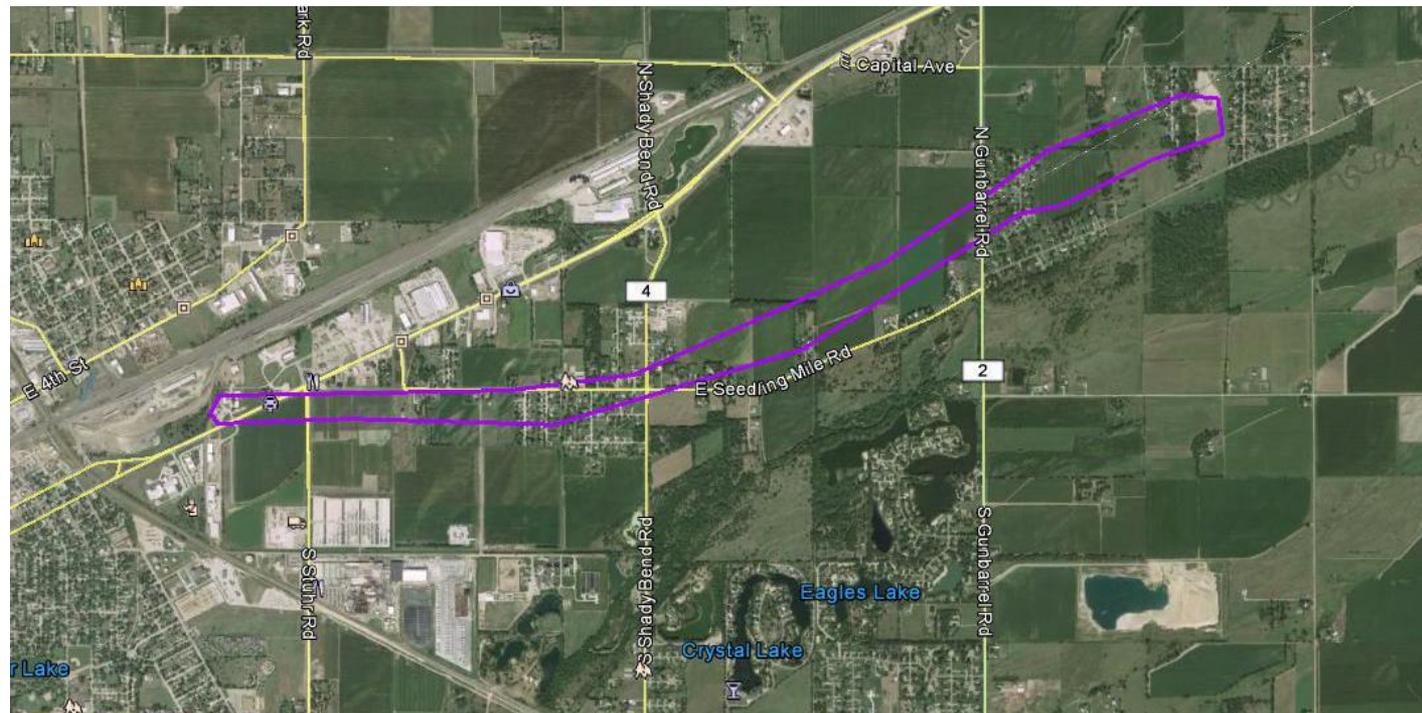
- Solvent stored and distribution from 1966 to 1988
- Land owned by Union Pacific, leased to NSC
- NDEQ Superfund work in 2004
- UP joins VCP in 2006





Case Study – former Nebraska Solvents

- Extensive Private well sampling
 - 52 homes on whole-house carbon filtration systems
- Source area and dissolved plume delineation via MIP and DPT, followed by permanent wells





Case Study – former Nebraska Solvents

Remedial Actions (RAC-1)

- Excavation
- Injections (Fenton's and UNL experimental candles)
- Monitoring and ICs
- Containment well
- MNA
- Water Line Extension (approx. 154 residences)





Case Study – former Nebraska Solvents

Current Status

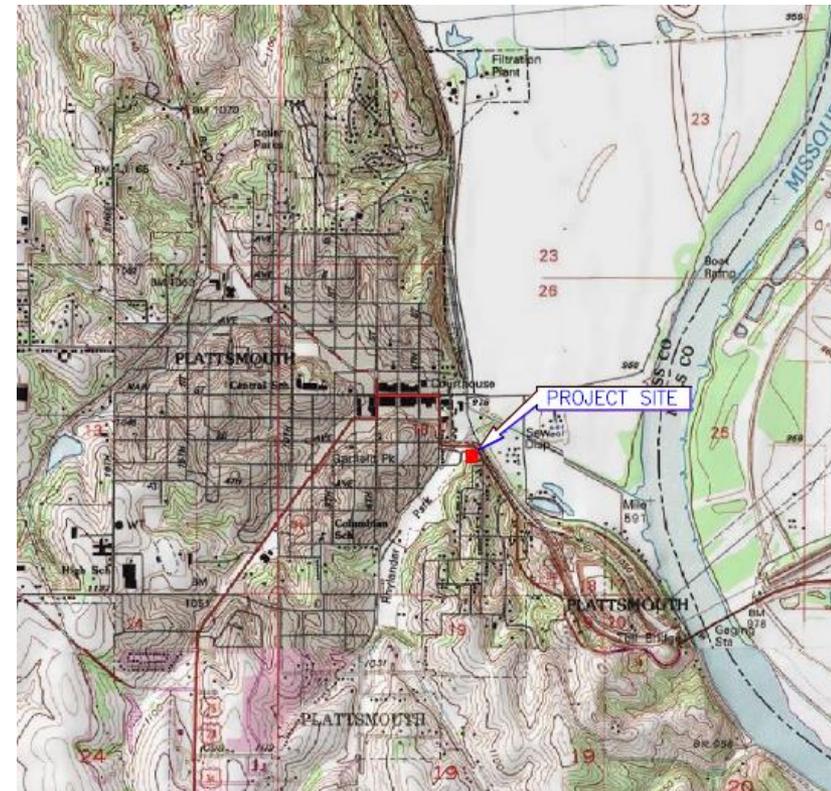
- Excavation complete
- Ongoing groundwater monitoring
- VI evaluation (near-source businesses)
- Evaluating need for additional injections





Former Plattsmouth FMGP

- Operated from 1899 to 1940s
- BHE brought into VCP in 2011
- Approved RAP in 2012
- Excavation in 2012

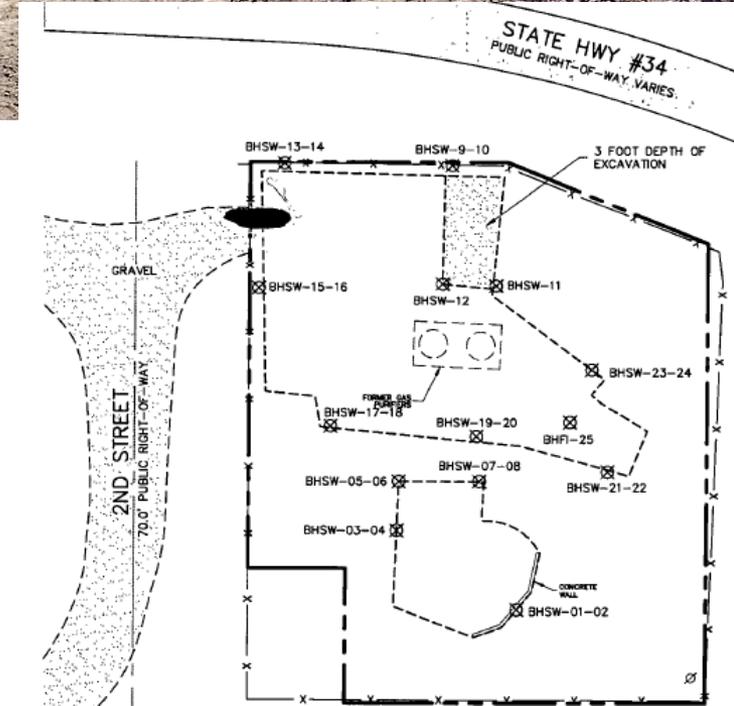




Former Plattsmouth FMGP

Remedial Actions (RAC-2)

- Excavation
- Monitoring and ICs





Former Plattsmouth FMGP

Current Status

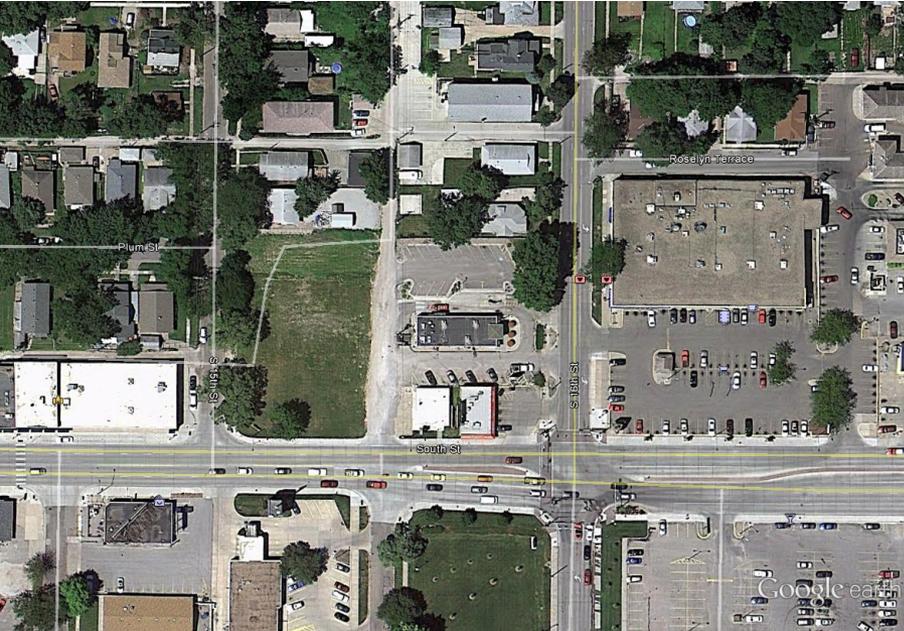
- New Operations building
- Ongoing groundwater monitoring
- NFA in 2015?





CVS Pharmacy

- Former dry cleaner 1960s – 2004
- Speedway brought into VCP in 2010
- RAP approved in 2011
- NFA letter 2015



2010



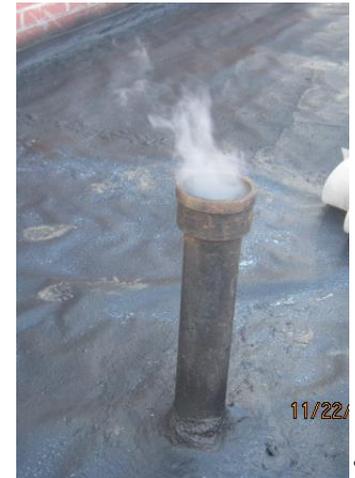
2014



CVS Pharmacy

Remedial Actions (RAC-3)

- Excavation (as interim action)
- VI Mitigation (Liquid Boot®)
- SVE
- Monitoring





CVS Pharmacy

Current Status

- NFA, January 2015





Questions

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