

CAP18™ & CAP18-ME™ SITE SUMMARY



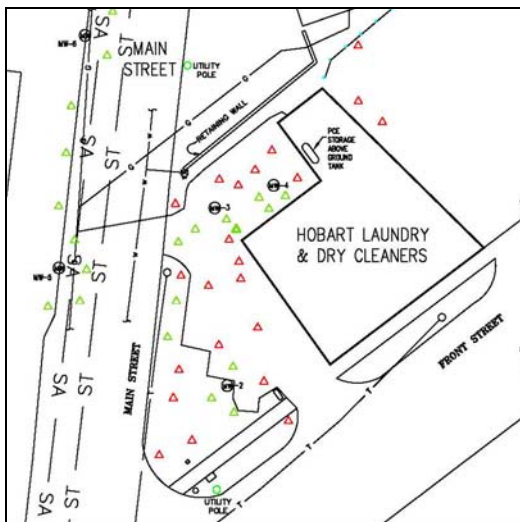
Site Name, Location: Hobart Dry Cleaners, Hobart, Indiana
Consultant: Patriot Engineering, Inc., Indianapolis, Indiana

SITE CONDITIONS AND APPROACH

Shallow groundwater at the site is impacted with tetrachloroethene (PCE) and its natural degradation product trichloroethene (TCE). Cis-1,2-dichloroethene (cis-DCE) was rarely detected, and vinyl chloride was not detected.

- *Dry cleaner site*
- *PCE up to 36,000 µg/L*
- *TCE and cis-DCE up to 63 µg/L*
- *Sand and silt aquifer matrix*
- *3,388 lbs of CAP18™*
- *4,158 lbs of CAP18-ME™*

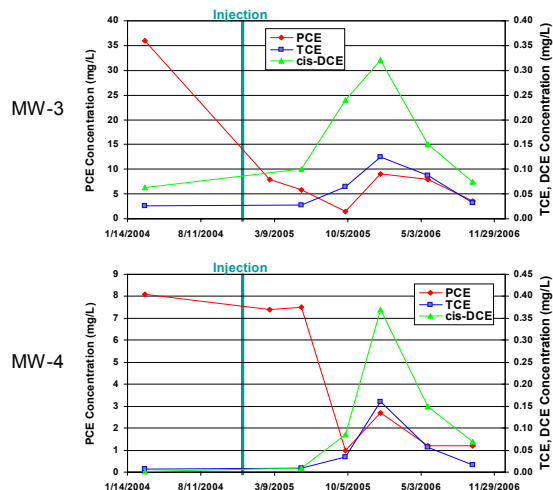
CAP18™ was injected in December 2005 using 22 direct-push points [red triangles]. Each point received 154 lbs (20 gallons) of CAP18™.



CAP18-ME™ was injected in November 2006 using 27 direct-push injection points [green triangles]. Each point received approximately 154 lbs (20 gallons) of CAP18-ME™.

TREATMENT RESULTS

The CAP18-ME™ was injected to provide a barrier wall offsite and to augment treatment in portions of the site that appeared to have insufficient substrate. To date, MW-3 has exhibited a 90% reduction in PCE concentration (to 3.6 mg/L from 36 mg/L) and MW-4 has exhibited an 85% reduction in PCE concentration. TCE and cis-DCE concentrations have reached peaks and continue to decline. Neither well has yet exhibited the formation of vinyl chloride or ethene, which is expected. However, because the cis-DCE concentrations have declined over the last two sampling events, hang-up (lack of degradation) of cis-DCE is not occurring. Monitoring is continuing for this site.



- *PCE reduced 90% in 9 months*
- *CAP18-ME™ application supplemented initial CAP18™ application, resulting in further VOC reduction*
- *No “cis” hang up at this site*

PRODUCTS THAT EMPOWER OUR CLIENTS

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