

TCE Remediation at Superfund Site

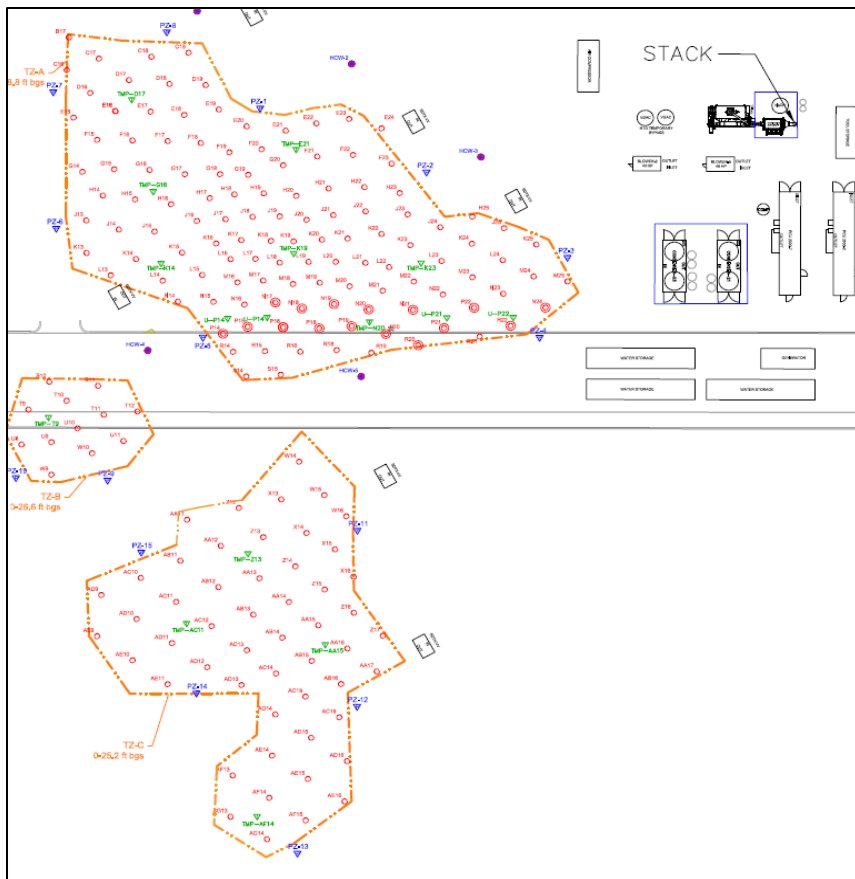
St. Louis, Missouri

Guaranteed Remediation

- Goal: 24 mg/kg TCE in soil

Site Characteristics

- Treatment volume: 28,500 yd³
- Vadose zone: coarse sand/gravel fill
- Saturated zone: clay with some sand to bedrock
- 62,000 mg/kg (TCE) baseline max concentration
- Electrode field partially in roadway and near utilities



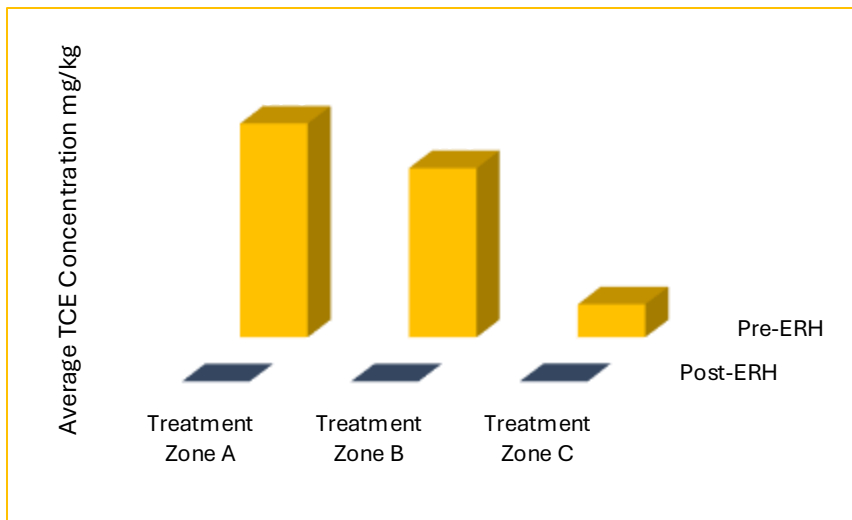
ISTR Site Plan - Three Areas

Operations

- Total run time: 149 days
- Efficient remedy – goals exceeded with 98% of samples below 10 mg/kg

Results

- Average post in situ thermal remediation concentration: 1.03 mg/kg
- Over 99.9% reduction



Pre and Post ISTR TCE Concentrations