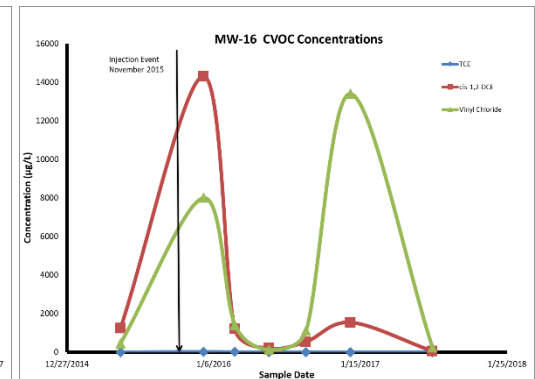
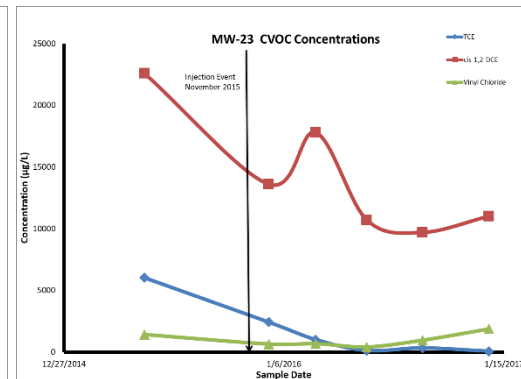
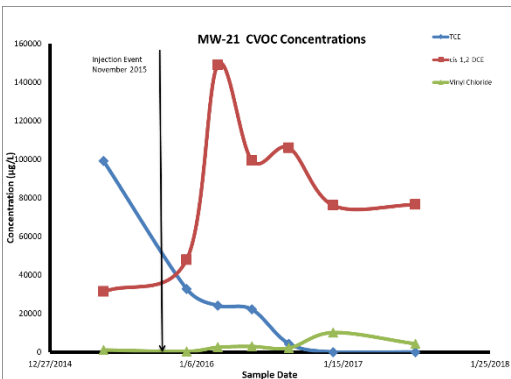
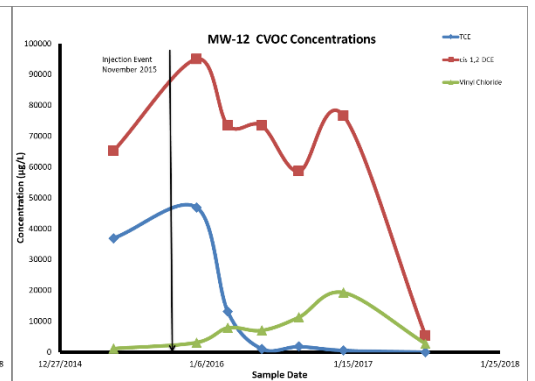
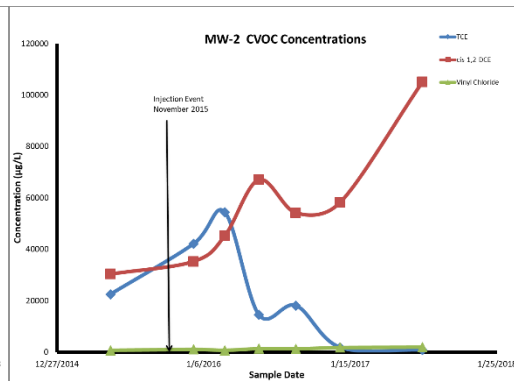
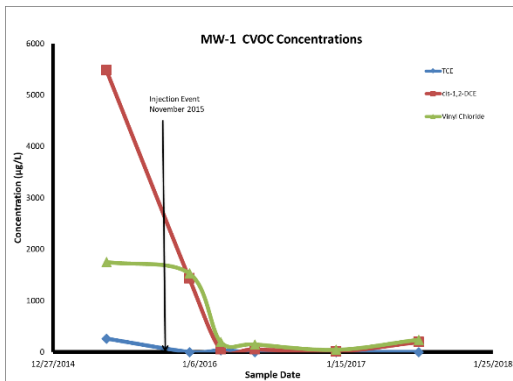
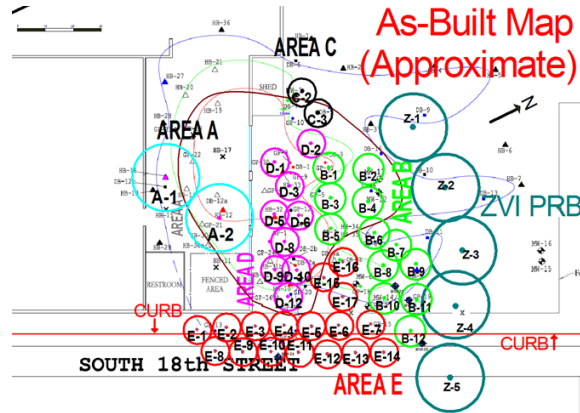


Project Summary

IET implemented a reductive dehalogenation remedial technology design at a site in East Orange, NJ, between November 3rd and November 10th 2015, in order to enhance both abiotic and biological reductive processes (U.S. patent #7,531,709) within the targeted treatment area. The targeting injection mixture included Provect-IR[®], kelp, nutrient, zero-valent iron, propionate, yeast extract, sodium sulfite, red yeast rice, a mixture of vitamins B2 and B12 and EZVI. The remedial mixture was designed to treat source contamination and restrict plume migration by chlorinated volatile organic compounds (CVOCs).



Conclusions

- Total CVOC concentrations in MW-1 decreased by 94%; PCE was below the detection limits.
- In MW-2, PCE concentration was decreased by 96%.
- Total CVOC concentrations in MW-12 decreased by 92%; PCE was below the detection limits.
- Total CVOC concentrations in MW-21 decreased by 39%; PCE (99.1 ppm) was below the detection limits.
- Total CVOC concentrations in MW-23 decreased by 57%; PCE decreased by 99%.
- Total CVOC concentrations in MW-16 decreased by 83%; PCE was below the detection limits.