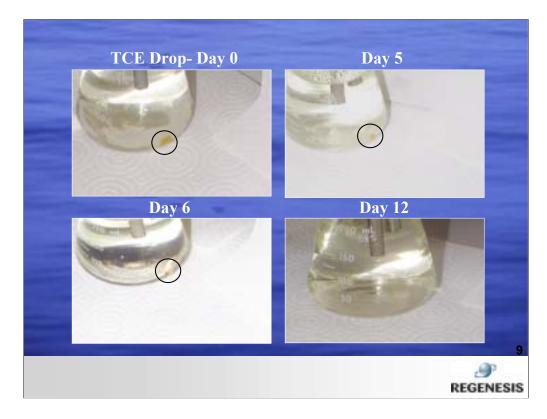


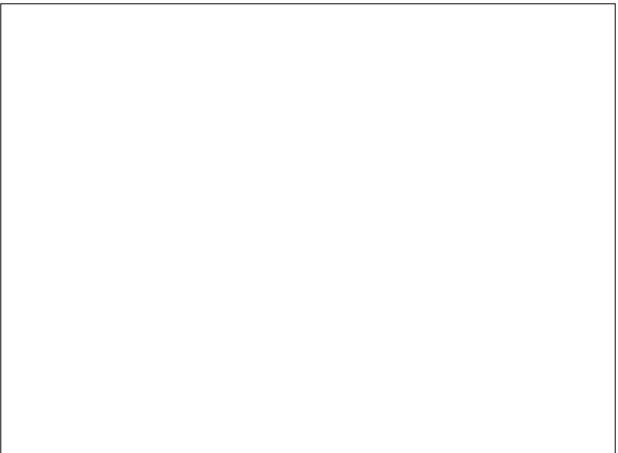
HRC and Desorption

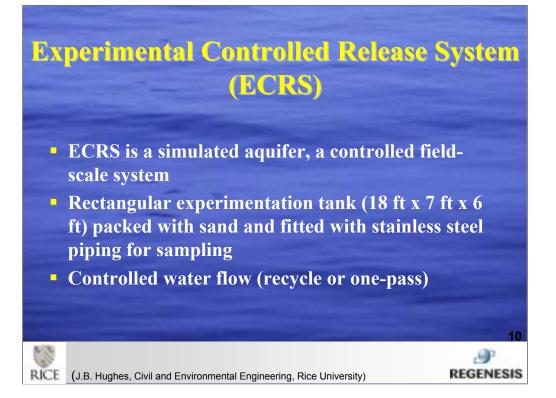
A visible drop of TCE (about 0.5 grams) was placed in a flask. Water from a second flask containing soil and HRC was recirculated through the flask containing the pure TCE and its disappearance was monitored.

> @ REGENESIS





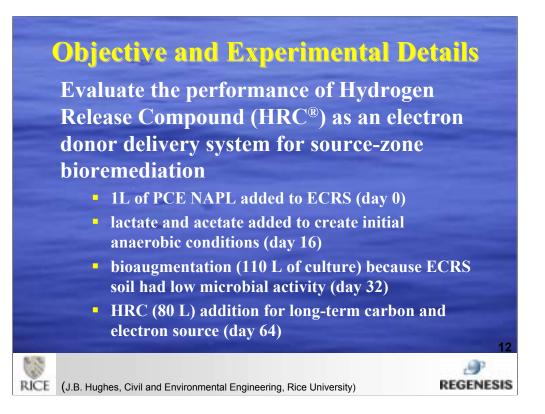




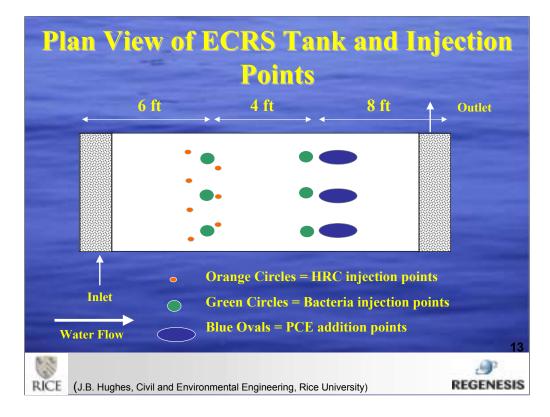


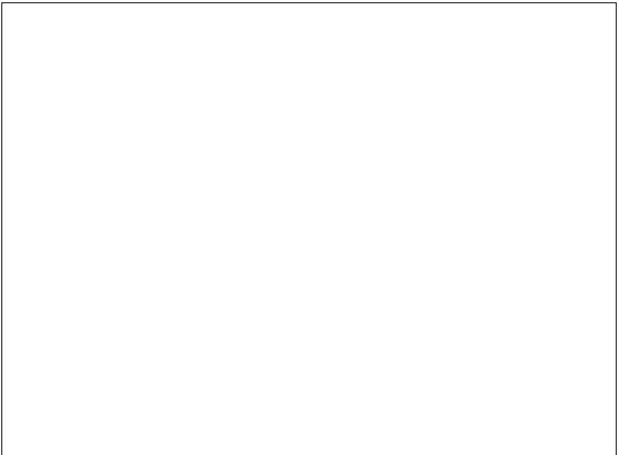


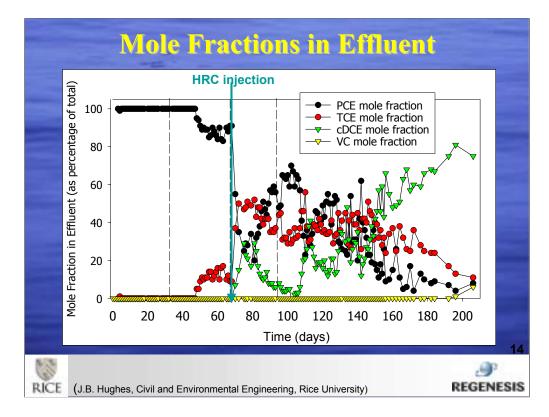


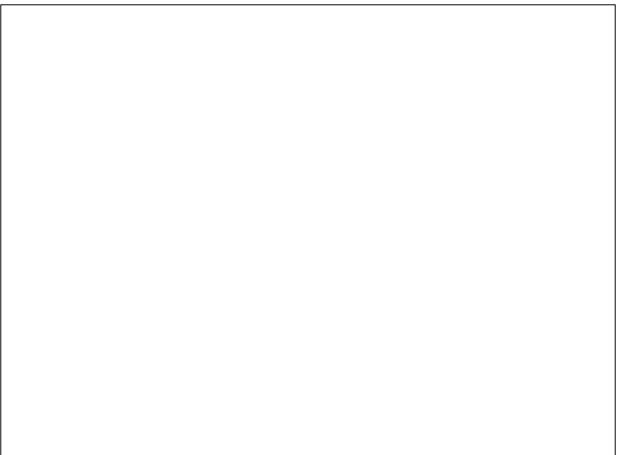












Conclusions of ECRS Study

- PCE in the ECRS effluent was reduced by 90% after bioaugmentation and HRC addition.
- Further results (unpublished) indicate that HRC application in conjunction with bioaugmentation was the driver for removing greater than 90% of the DNAPL in 240 days.

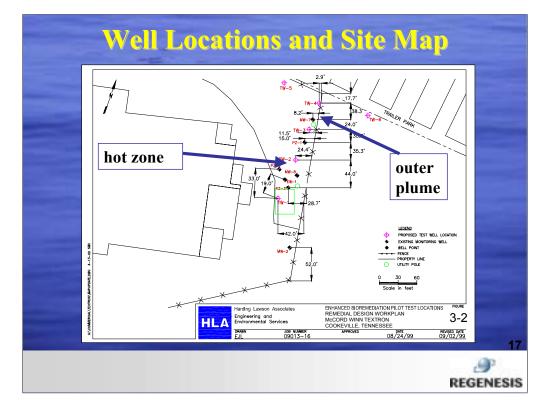
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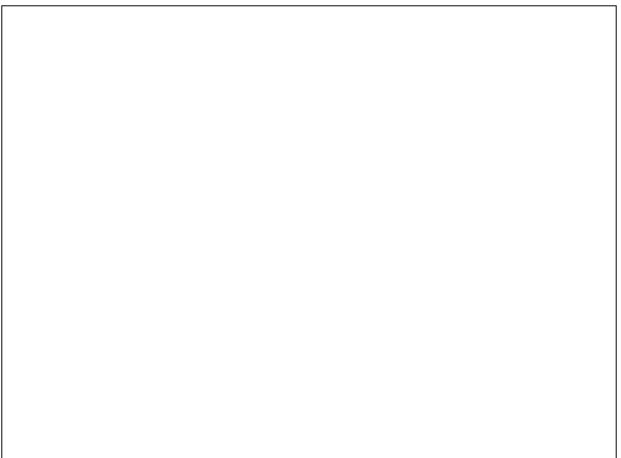


HRC[®] Performance in Tight Clays – Cookeville, TN

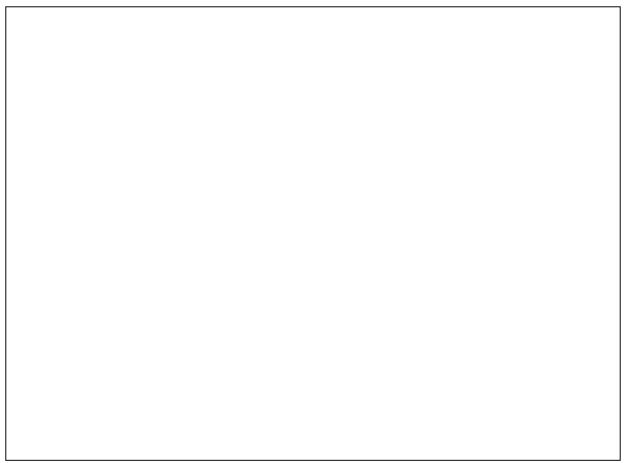
- HRC chosen as effective remediation technology with cost-saving benefits
- Goal was to degrade high concentrations of dissolved PCE and TCE in the presence of residual DNAPL at a tight clay site.
- Other motivations included: no interruption to facility operations, no lengthy maintenance and operations, and no construction of unsightly/obtrusive remedial systems











HRC Field Application



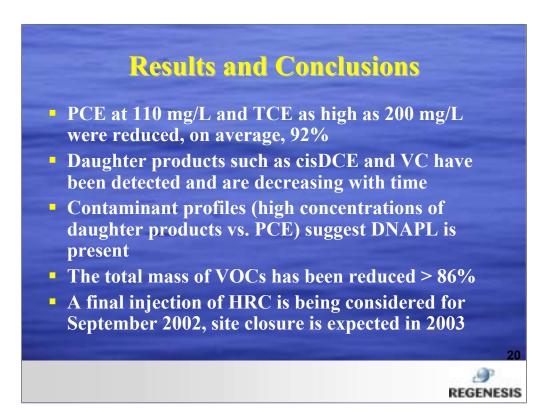
HRC is a viscous, injectable substance.

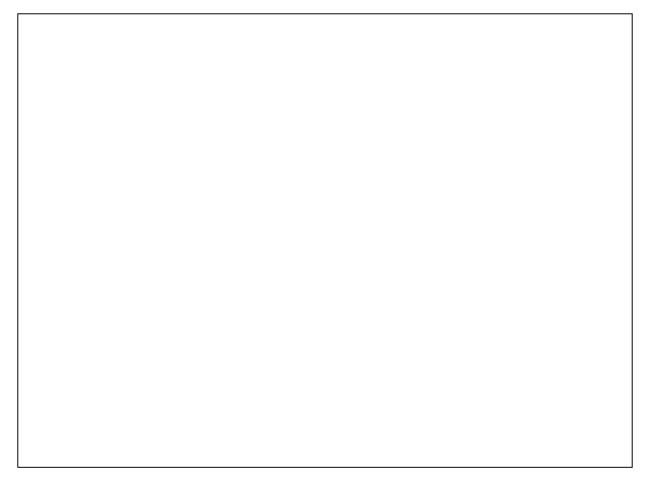


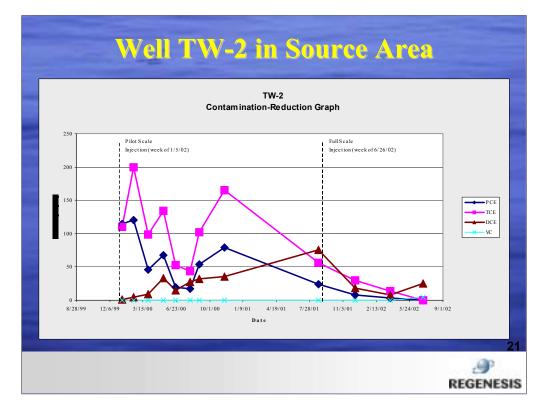
HRC is injected into the aquifer using direct-push technologies.

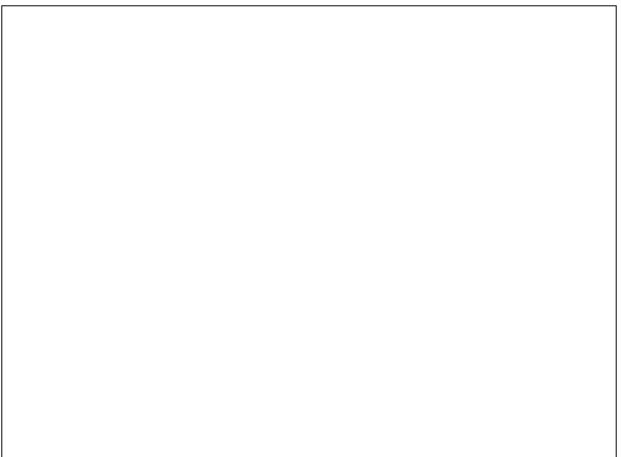


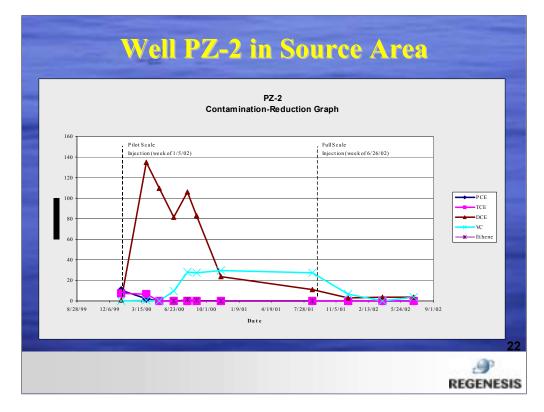


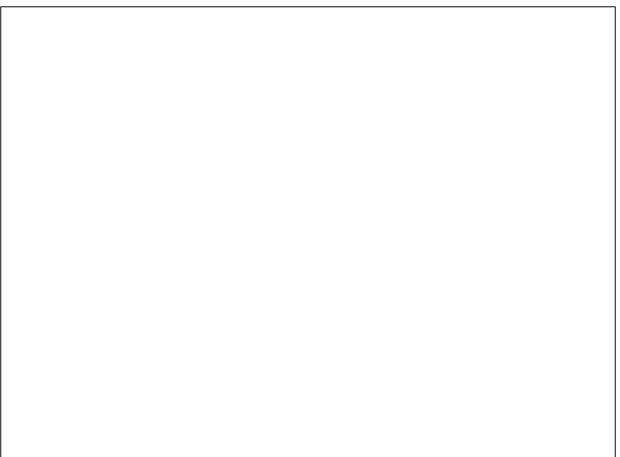








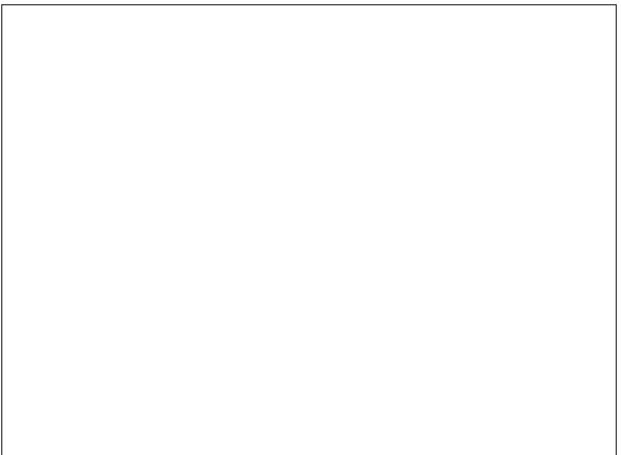


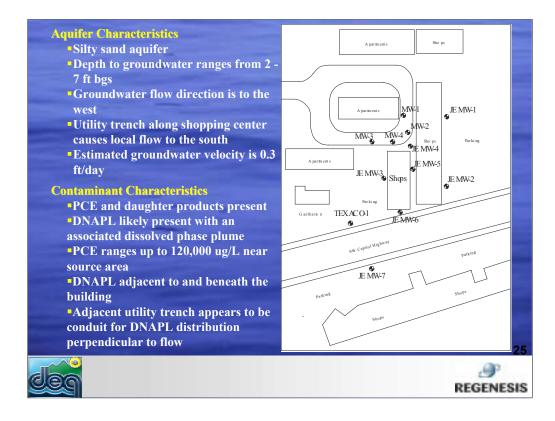


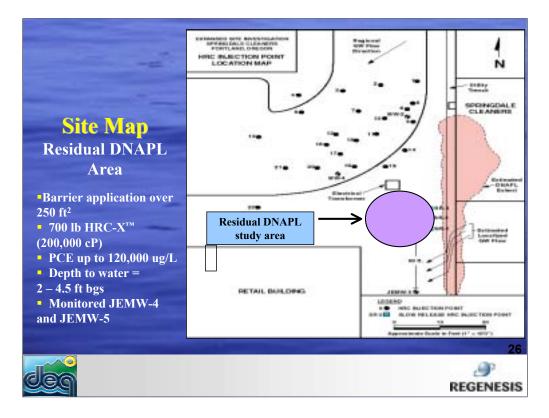
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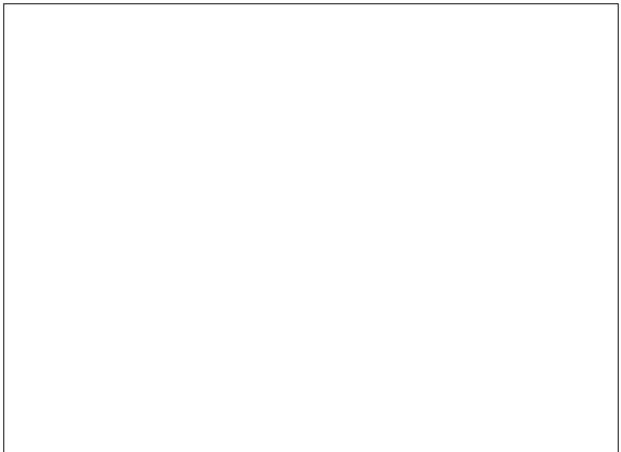


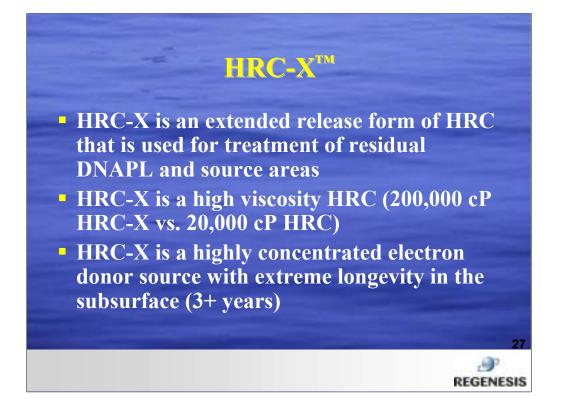




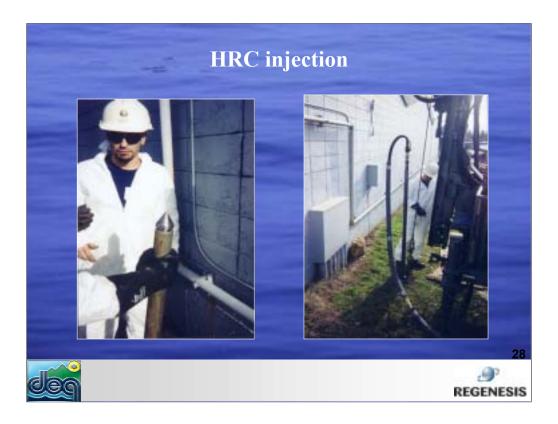


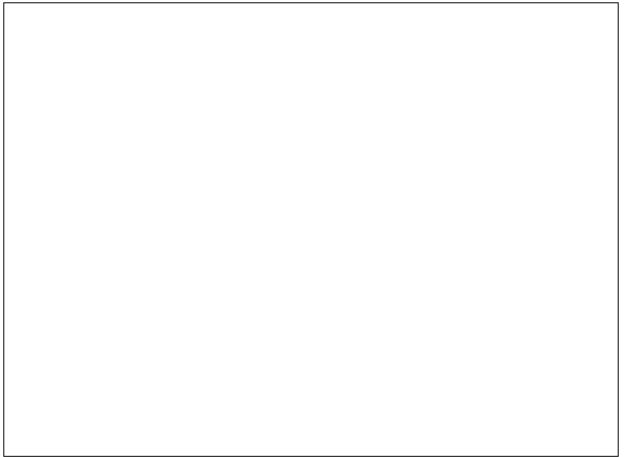




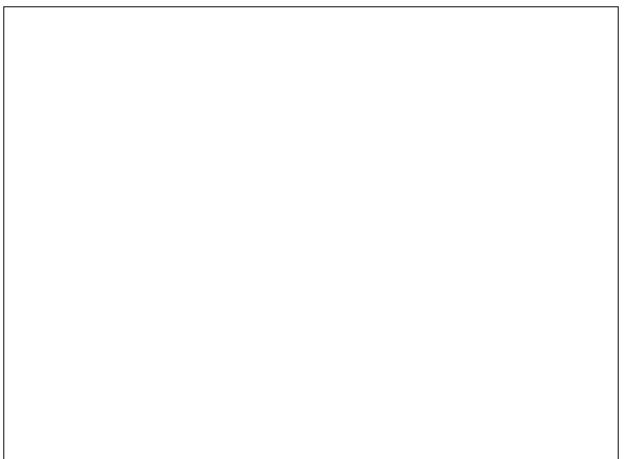






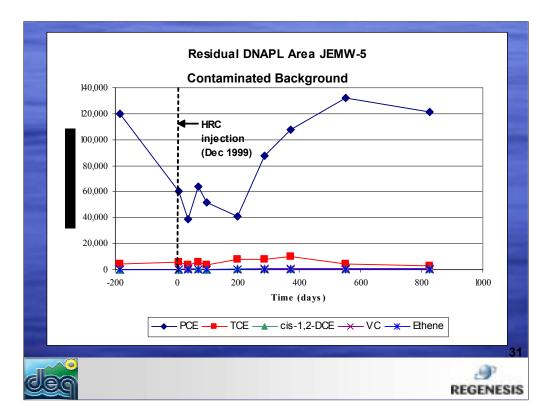


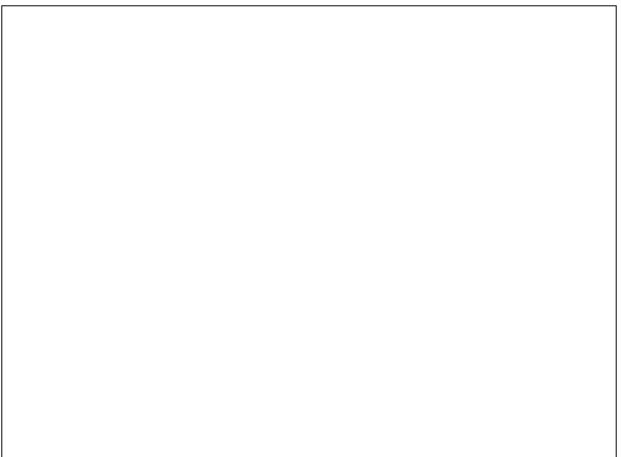


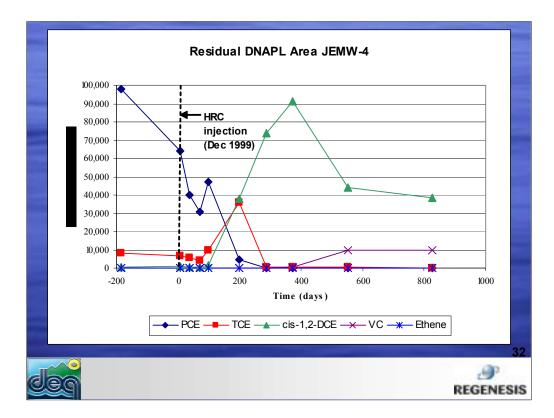


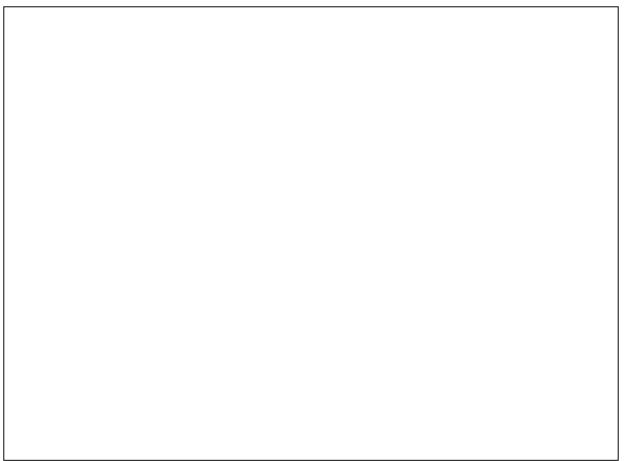


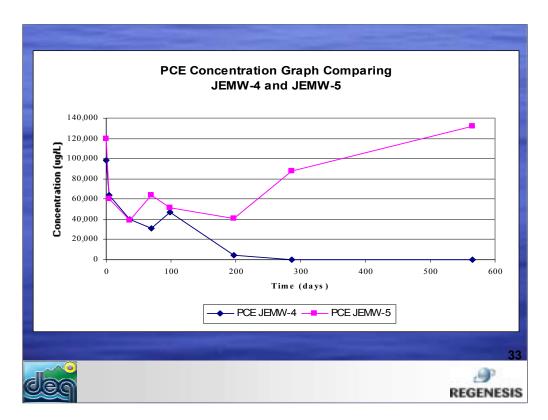


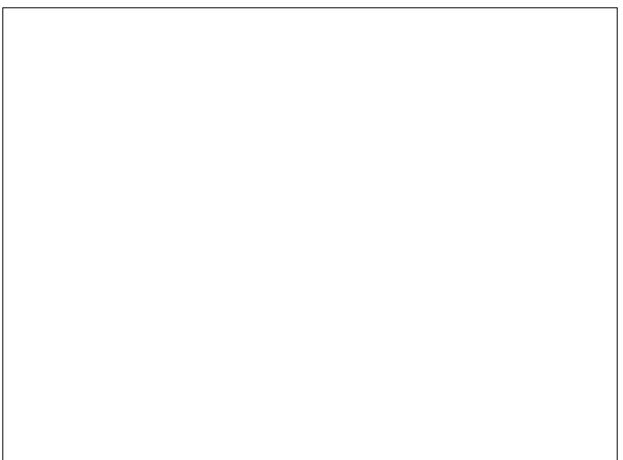












Summary of Results for Springdale Site

■After 1.5 years, HRC-X[™] reduced PCE mass by over 99% in both the residual DNAPL area and the dissolved phase plume.

 Project was very low cost: <\$20,000 in HRC and about 3 days direct push application (includes cost of treating dissolved-phase plume)





