



Case Study 3

Rochelle Case Study	
Name and Location	<p>Site Name: Rochelle, IL</p> <p>Site Location: Rochelle, IL</p>
Ecological Enhancement	Poplar varieties, deep-rooted grasses and flowers.
Site Description	Rochelle is an operating terminal owned by BP. The groundwater is impacted by BTEX from a depth of 10 to 15 feet. Poplar varieties, deep-rooted grasses and flowers were planted in 2001-2 to remediate groundwater and provide hydraulic control.
Site Reuse Description	This site will continue to be used as an operating terminal.
Stakeholder Involvement	<p>Stakeholders include BP and Illinois EPA.</p> <p>This project was funded by BP.</p>
Site Assessment Approach and Cleanup	Groundwater potentially migrating offsite. Interception necessary to prevent. Other alternatives included physical GW extraction but at a higher cost.
Reuse	Site is located within local region where prairie restoration is ongoing.
Obstacles	Facility required that workers would have to be able to be maintained in visual contact with the operators control room. Therefore, low profile prairie species were selected.
Costs and Funding	<p>Funded by BP.</p> <p>Costs for phytoremediation system substantially less than physical extraction alternative.</p>
Economic and Other Incentives	Also helped to reduce expenses associated with mowing around the facility.
Time	Planting conducted over 2 seasons.
Other	
Contact Information	Dr. David T. Tsao, (630) 420-4321.