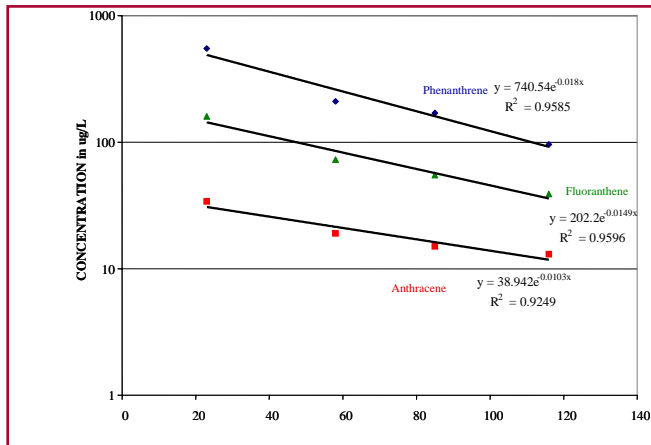




# Summary of Recent Projects

Area of Work: Remedial Investigations

## Project Description: *In-Situ* Bio-stimulation for Aerobic Bioremediation of Contaminated Groundwater



**AquAeTer** was retained by this client to design, implement, and monitor an *in-situ* aerobic bio-stimulation technique for the bioremediation of polycyclic aromatic hydrocarbons (PAHs) for a remote, unconfined, shallow groundwater location. A passive, gravity-fed inoculation system was designed to continuously apply **AquAeTer's** patent-pending bio-stimulant through a series of injection wells. Additional wells were installed upgradient for treatment and downgradient for monitoring. Monthly sampling for PAHs and biological activity demonstrated the success of this project. In the 5-month test period, 82% of the PAHs were degraded and a half-life of under 30 days for all PAHs was achieved. This was an order of magnitude quicker than traditional literature reported aerobic decay and 100 times faster than the pre-existing anaerobic decay pathway.

**AquAeTer** provided the following services to its client for this remediation project:

- Permitting with the state regulatory agency;
- Design, implementation, and monitoring plan;
- Engineering design calculations for chemical and biological activities;
- Construction of treatment system;
- Shifted biological activity from anaerobic to an aerobic dominated aquifer;
- Effective and quick remediation of PAHs; and
- Design for expansion of treatment to remediate larger areas and other locations.



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