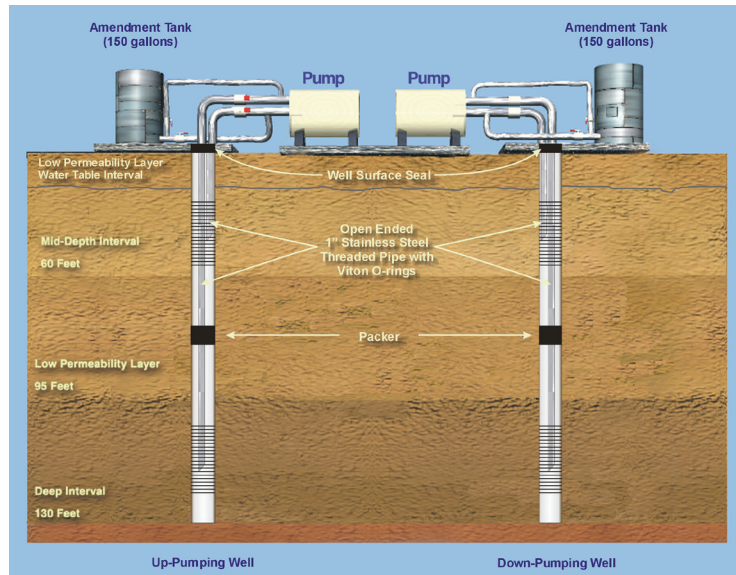


# Bioremediation

The remediation engineers of TEA are experts in the design, implementation, negotiation, and evaluation of engineered in-situ bioremediation systems. TEA frequently uses bioremediation for elimination of organic chemical contaminants at client sites. This technology relies on naturally occurring aerobic and anaerobic bacteria as well as fungi in some cases to degrade and mineralize anthropogenic chemicals in soil and groundwater.



Successful application of the technology requires that metabolically active, naturally occurring microorganisms be present in contaminated zones in order to eliminate organic contaminants.

TEA has a wide range of field experience in the application of bioremediation technologies. Since its creation as a corporation in 1996, TEA has provided expert assistance to clients who have relied on natural attenuation processes and contaminate risk assessments to show that chemical contaminants and risk factors at their site are decreasing. TEA has participated in numerous bioremediation projects where groundwater analyses were used to quantitatively determine how existing geochemical factors and microbial populations should be manipulated to achieve optimum degradation of constituents of concern. TEA has also used biostimulation and bioaugmentation as a remedial technology when necessary.

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**Bioremediation can be utilized in three basic forms: natural attenuation, biostimulation, and bioaugmentation. The professionals at TEA are experienced in the application and use of all three bioremediation methodologies.**



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