CORRECTIVE ACTION PLANS & SITE REMEDIATION

Soil Vapor Extraction (SVE) – Derby, VT

R.E.A. completed a Corrective Action Plan based on data collected during two pilot studies: surfactant soil flushing and Soil Vapor Extraction. SVE was determined to be the most cost effective solution for remediating contamination originating from a 5,000-gallon gasoline spill. A 54% reduction in contaminant concentrations was noted following the first six months of operating the SVE system.

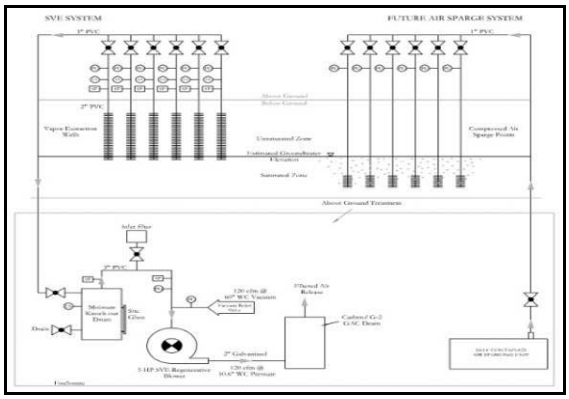

Figure 1. SVE System Schematic

Oxygen Injection – Cabot, VT

R.E.A. has developed several Corrective Action Plans for projects involving oxygen injection. ***R.E.A.*** has remediated gasoline contamination within the overburden and shallow bedrock formations using a 32 point oxygen injection system. Post monitoring has indicated that the remediation was successful in meeting overall project goals.

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Figure 2. MPE System

Multi-Phase Extraction (MPE) – West Charleston, VT

Widespread contamination emanating from a diesel UST was discovered at a municipal garage in northern Vermont. Free-phase diesel fuel encompassed approximately 5,600 square feet and extended beneath the on-site building. ***R.E.A.*** completed an MPE pilot study and determined that MPE was the best remedial alternative for the Site. Following the approval of the Corrective Action Plan, ***R.E.A.*** designed and installed a full scale MPE system. During the first 12 months of operation the MPE system reduced contaminant concentrations by over 60%.

Figure 3. Oxygen Injection System