

IN-SITU GROUNDWATER REMEDIATION (ISCO)



[Pilot Test Rental Trailer](#)

Mobile groundwater system - turnkey package installed in 48' trailer for air/ozone sparging at 60 injection wells. The unique design minimized site work to: 1) connection of sparge lines to distribution manifolds; and 2) installation of electric service - resulting in significantly lower project costs when compared to a contractor "assembled-on-site" system. Interior photos (click to enlarge) show components of the system and PLC control that governs the sequential cycle times of 12 air/ozone sparging manifolds.



Trailer Interior
(view of mechanical equipment)



Air/Ozone Flow Control Valve
and 6-well Sparging Manifold



Banks of Sparging Manifolds
(with sparge lines connected)



PLC for controlling 12 banks of
sparging manifolds and ozone



Stationary groundwater remediation system with 24 lbs/day ozone - turnkey package installed in 20' cargo container for air/ozone sparging at 80 injection wells. The 80 injection wells are connected to eight distribution manifolds located remotely from the equipment container and supplied by 1" underground feeder lines. Each feeder line connects to the air/ozone supply system in the equipment container through electrically actuated ball valves, with sequential open/close function controlled by a PLC to provide user adjustable timing of pulsed sparging.



Ozone Generator
(24 lbs/day water cooled)



Water Chiller
(ozone generator cooler)



Oxygen Generator
(ozone generator feed gas)



Air Dryer
(for sparging air)



PLC Control Panel
(sparge time controller)



Sparge Well Manifold
(remote from system)



30 HP rotary screw air compressor with exhaust heat duct supplies 125 CFM compressed air for sparging and feed to oxygen generator.

Air/ozone manifold with electric actuated ball valves (controlled by PLC) supplies remote from system sparge well manifolds.

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IN-SITU GROUNDWATER REMEDIATION (miscellaneous components and systems)

