

A Powerful Solution

Environmental H2O

ISO-GEN™

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It's a Natural Solution

Iso-Gen™ Technology enhances the cleanup of contaminated ground water by feeding extraordinary concentrations of dissolved oxygen to microbes, stimulating them to thrive on petroleum hydrocarbons.

In simple terms, once the Iso-Gen™ Solution is specified by remediation consultants, the quickly installed package begins an electrolytic process that produces measurable reductions in petrochemical hydrocarbons right away. It does it without costly remediation methods of the past, eliminating the need for removal, deep trenching, pumping and other labor-intensive programs.

A Simple, Cost-effective Solution

Iso-Gen™ units are placed in pre-existing groundwater wells or newly-injected wells. Electrolytic cells in Iso-Gen™ disassociate water into hydrogen and oxygen molecules generating high concentrations of stable dissolved oxygen (DO). Petroleum degrading microbes use DO as a stimulant, the rapid population of these microbes accelerates the destruction of petroleum hydrocarbons in the environment where these microbes live, in the groundwater.



The Iso-Gen™ Solution

No Chemical Additives:

The Iso-Gen™ Technology creates DO in-situ.

Low Operating and Management Costs:

Iso-Gen™ has minimal service needs and a small electricity cost.

Low Impact and Minimal Site Disruption:

Iso-Gen™ uses existing monitor wells and power supplies.

No Discharge Water at Surface:

Groundwater is recirculated in the ground producing no water handling or permitting issues.

No Treatment Area Footprint:

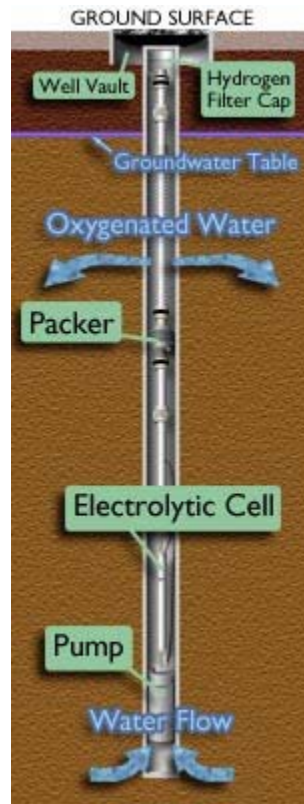
The Master Controller(s) can be mounted on a building wall, a power pole or other existing locations. No area of a site need be taken away during the remediation period.

The Technology

The Iso-Gen™ Process consists of a systemized approach. Each solution includes a Master Controller, which provides power and communication with up to



contained probes installed in existing or specially placed well borings.



The self-contained Iso-Gen™ unit - can be installed in existing bore holes, and reinstalled in different locations when their job is complete

Ground Water - Naturally occurring groundwater source for the Iso-Gen™

Oxygenated Water - Elevated levels of Dissolved Oxygen, stable for long periods of time, stimulate appetites of microbes who feed on petrochemicals

Perforated Section - Introduces the DO back into the groundwater at the source of the contamination

Electrolytic Cell - The proprietary Electrolytic cell disassociates the Hydrogen and Oxygen molecules from water, releasing Hydrogen and creating Dissolved Oxygen (DO) as a rich nutrient for petroleum-degrading microbes

Pump - The self-contained pump draws groundwater up into the Iso-Gen™ Process

[next article - Remedial Performance](#)

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