

EPG Connection

Your Resource For Landfill, Environmental and Industrial Solutions!

www.epgco.com

1-800-443-7426

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EPG Companies Inc. specializes in the manufacture of **landfill leachate pumps & controls, sump drainers, remediation equipment, telemetry hardware and SCADA systems** and other environmental and industrial products.

Exhibiting at



August 23-25, 2011 | Nashville, TN

EPG Booth #752. [Wastecon 2011 Show Floor.](#)

You can follow SWANA on [Twitter](#) for Wastecon updates and industry news.

As always, EPG welcomes your feedback. If you have any comments or questions, feel free to contact us at info1@epgco.com.

Sincerely,


EPG Companies Inc.

www.epgco.com

Product Highlight - Remediation Equipment


EPG is well known for it's pumps and controls systems but did you know we also specialize in Remediation Equipment? Below is a list of environmental problem solving solutions offered:

- [Air Strippers](#)
- [Vapor Extractors](#)
- [Condensate Filter Separators](#)
- [Air Sparging Equipment](#)
- [Oil & Water Separators](#)
- [Trailer Mounted Remediation Systems](#)



Low Profile Air Stripper

Because EPG is so deeply involved in the entire remediation process, we have an excellent understanding of the symbiotic, "interconnected" nature of remediation programs. Our experience and understanding enable us to offer soundly engineered, field-tested, cost-effective solutions to environmental pollution problems both large and small. If you need a price quote or want to talk with an EPG remediation expert, please call **Jim Bailey** today at **800-443-7426**.



Trailer Mounted Remediation

FYI - The Progression of Remediation - by Jim Bailey

Environmental remediation involves the cleanup of contaminated ground water and/or soils impacted by a variety of contaminants. The predominate contaminants over the years have been petroleum hydrocarbons from leaking underground storage tanks and surface spills, as well as solvents and other volatile organic compounds (VOCs) from industrial processes. Today, the most effective, practical, and common ways of remediation have generally been pumping the contaminated ground water from a recovery well(s) to an air stripper for treatment, product recovery pumping, soil vapor extraction, air sparging, and dual phase extraction.

In the early to mid 1980s, the typical approach to ground water remediation was simply pump and treat. Contaminated soil was either excavated and hauled off to a treatment facility, composted or thin spread on-site for natural/biodegradation, incinerated on-site, or not addressed. By 1990, many environmental consulting and engineering firms were utilizing vacuum blowers to improve hydraulic recovery in pumping wells, which in part lead way to soil vapor extraction.

Blowers were connected to a number of vapor extraction wells that were screened above the water table. The VOCs in the soil were then captured under vacuum.

Air sparging was added to assist in the capture of volatiles in the soil, and to provide in-situ aeration enhancing the naturally occurring microbes that breakdown hydrocarbons in ground water. Air sparge or injection points are wells that have a screened interval below the water table.

An air blower or compressor is connected to the air sparge wells providing enough pressure to overcome the static water level and line losses, and supply typically five to 10 SCFM per point. Air molecules rise to the surface of the static water level carrying dissolved VOCs. A vapor extraction blower then captures these VOCs above the water table under vacuum.

Dual phase extraction is the extraction of air and water from monitoring or recovery wells. High vacuum is applied to most commonly tighter formations with low hydraulic conductivity.

The air emissions have usually been discharged directly, treated through carbon vessels, or passed through a thermal or catalytic oxidizer for destruction. The fate of the emissions is most notably governed by the levels of fume concentrations and by air pollutant emissions permits.

There are certainly other more innovative ways of effective treatment, including various means of bio-remediation, chemical treatment and injection, UV oxidation, and the use of ozone. All sites are unique in their type, level, age, and extent of contamination, soil and ground water characteristics, as well as access and political concerns that effect the best suited overall remediation approach.

Jim Bailey is an Applications Specialist for EPG Companies Inc. heading the Remediation Division


Upcoming Events

EPG will have representation at the following SWANA and industry related events:

8/23-25 Wastecon 2011 - Nashville, TN

Be sure to stop by and say hello! Find us at Booth #752.

2012 Service School dates will be announced this fall. Call us at **1-800-443-7426** to get your name on the waiting list for early notification. [Check our website for updates.](#)



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