



Kansas Small Arid Landfills

HydraSleeve

Summary

Media:	Groundwater
Study Type:	Side by side
Technology:	Grab
Peer Reviewed:	No
Publication Date:	October 2006

Study Description

This study compared results from HydraSleeve samples to 3-volume purge and pumped, or 3-volume purge and bailed samples at 14 wells across 3 small arid landfills (SALs) for a reduced set of 12 VOCs and two metal constituents (cadmium and chromium).

Outcome

The study noted that results were very consistent between the two sampling methods and the HydraSleeve provides more accurate results for VOCs at low levels due to less agitation during the collection process and because the samples are not exposed to ambient air, minimizing volatilization. Samples for metals, taken with the HydraSleeve, were less turbid than pumped samples, and turbidity is known to increase results for metals concentrations.

The HydraSleeve sampling method may be used at any of the 33 SALs for ongoing site monitoring.

Based on the findings of this limited study and much research, it is the author's recommendation that the use of the HydraSleeve for groundwater monitoring be approved. While providing consistent and accurate data, this method also allows facilities to take advantage of many benefits, should they choose to select this alternative method of sampling.

Case Study Source

Schauer, Stephanie J. 2006. HydraSleeve Sampling Study at Kansas Small Arid Landfills (SALs). Kansas Department of Health & Environment, October.

References

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Interstate Technology & Regulatory Council. 2006. "Technology Overview of Passive Sampler Technologies." <https://itrcweb.org/teams/projects/diffusion-passive-samplers>.

Parsons. 2005. "Final – Results Report for the Demonstration of No-Purge Groundwater Sampling Devices at Former McClellan Air Force Base, California." Rooks County Landfill, Rich E. Bouchey. June 5, 2006. "Groundwater Sampling and Analysis May Event, Rooks County Landfill, Rooks Co. Ks."

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