

High Resolution Technology for Subsurface Characterization

Borehole geophysical logging is the science of making measurements in a well or borehole to vertically evaluate the physical properties of subsurface lithology and fluids. EDN's borehole geophysical logging service utilizes leading edge technology for high-resolution site characterization, including acoustic and optical borehole imaging.

Packer testing (open borehole interval testing) is the industry standard for evaluating aquifer hydraulic properties and discrete interval water quality sampling. EDN's data-logged packer testing technology sets the bar for data defensibility and highest value per tested interval.

Aquifer testing is a science-based procedure used by hydrogeologists to estimate hydraulic properties of aquifer systems. EDN designs and implements aquifer testing programs that utilize industry best practices and technology including Diver® water level data loggers, the world's most widely used and compact instruments for automatic measurement and registration of groundwater level, conductivity, and temperature.

The superior performance of EDN's field teams combined with data analysis, interpretation, and reporting by experienced geoscientists makes EDN the go-to provider for high resolution technology for subsurface characterization.

The following is a partial list of notable sites where EDN's services were used to enhance our customers' understanding of complex subsurface conditions:

Project / Site Location	Services		Client
Salford Quarry Superfund Site Harleysville, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	U.S Army Corps of Engineers
Cidra Groundwater Contamination Superfund Site Cidra, PR	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	CDM
Avtex Fibers Inc. Superfund Site Front Royal, VA		Straddle-packer testing; aquifer testing	ERM
Crosley Farm Superfund Site Berks County, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	CDM
Chem-Fab Superfund Site Doylestown, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	HGL AECOM Wood
Former Ft McClellan Site Anniston, AL	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Geosyntec
Precision Plating Superfund Site Vernon, CT	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	AECOM TRC
Ft Detrick Area B Groundwater MD	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	ERM
Raymark Superfund Site Montgomery County, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	HGL
Oak Ridge Reservation Oak Ridge, TN		Aquifer testing and groundwater modelling	UCOR
Federal Creosote Superfund Site Mansville, NJ	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	CDM
Spectron, Inc. Superfund Site Cecil County, MD	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	ERM OBG
Kellogg-Deering Wellfield Norwalk, CT		Straddle-packer testing with digital data logging	GZA
Hidden Lane Landfill Sterling, VA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	EA Engineering
Garfield Groundwater Contamination Site Garfield, NJ	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Jacobs/CH2M

Mansfield Trail Dump Site Byram Township, NJ	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	CDM
Pohatcong Valley Groundwater Contamination Washington Township, NJ	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Jacobs/CH2M
Fried Industries Superfund Site East Brunswick, NJ	Borehole Geophysical Logging		Tetra Tech
Ordnance Products Inc. Cecil County, MD	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Tetra Tech
Dublin TCE Site Bucks County, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Arcadis ERM Geosyntec
Elizabethtown Landfill Lancaster County, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging; Aquifer Testing	HGL
Rocky Hill Municipal Well Rocky Hill, NJ	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	CDM
San German Groundwater Contamination San German, PR	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	CDM
Sherwin-Williams/Hilliards Creek Superfund Site Gibbsboro, NJ	Borehole Geophysical Logging		Weston
Letterkenny Army Depot Chambersburg, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Weston Fluor
Safety Light Superfund Site Bloomsburg, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Tetra Tech
Watson Johnson Superfund Site Bucks County, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Tetra Tech
Valmont TCE Superfund Site West Hazelton, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Weston Tetra Tech
Old Wilmington Road GW Contamination Sadsburyville, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Tetra Tech
Linemaster Switch Corp Site Woodstock, CT		Straddle-packer testing with digital data logging	TRC
Occidental Chemical Site Pottstown, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	CRA/GHD
North Penn Superfund Area 5 Montgomery Township, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Geosyntec

North Penn Area 12 Worcester, PA	Borehole Geophysical Logging		Jacobs/CH2M
Unimatic Manufacturing Co. Fairfield, NJ	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	CDM
Paoli Rail yard Superfund Site Chester County, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging; injection testing	Advanced GeoServices
Henderson Road Superfund Site Upper Merion Township, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging; injection testing	RT Environmental
Allegany Ballistics Lab Rocket Center, WV	Borehole Geophysical Logging	Straddle-packer testing with digital data logging; injection testing	Jacobs/CH2M
Tobyhanna Army Depot Monroe County, PA		Straddle-packer testing with digital data logging	Weston
William Dick Lagoons Site West Caln Township, PA		Straddle-packer testing with digital data logging	GEC
Radiation Technology Rockaway Township, NJ	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	CRA/GHD
Atlantic Research Corporation Site Gainesville, VA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Geosyntec
The Railroad Drive TCE Site Warwick Township, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	Tetra Tech
Tyson's Dump Site Upper Merion Township, PA	Borehole Geophysical Logging	Straddle-packer testing with digital data logging	ERM Jacobs/CH2M