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## INTRODUCTION

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Lionville Laboratory (LVL), a division of Eberline Analytical Corporation, provides a wide range of analytical services in support of major environmental programs for federal, state, and private enterprise clients with a focus on mixed waste analyses, support to U.S. Department of Defense (DOD), U.S. Department of Energy (DOE) sites, state/federal Superfund programs, and projects with special (non-routine) analytical needs.

LVL's large capacity, full-service laboratory is located in the Philadelphia, Pennsylvania metropolitan area. LVL has been in operation for more than 25 years, holds numerous state certifications, regularly participates in performance evaluation programs, and is audited throughout the year by regulatory agencies and clients.

In addition, LVL has 15 years of experience in the deployment of onsite/mobile laboratories to provide cost-effective and rapid turnaround analytical services tailored to site-specific needs and requirements.

LVL's Quality Assurance (QA) Program conforms to the requirements of DOE, DOD, U.S. Environmental Protection Agency (EPA) and other state and federal agencies. In addition, the facility is National Environmental Laboratory Accreditation Conference (NELAC) accredited, accepted by the U.S. Navy Installation Restoration QA Program for DOD, and licensed by the U.S. Nuclear Regulatory Commission (NRC) to receive and analyze low-level radioactively contaminated samples.

The laboratory employs a staff of 30 qualified professionals and is equipped with instrumentation and sample preparation facilities that allow the analysis of several hundred water, wastewater, soil, sediment, sludge, and waste samples each month for an extensive array of organic, inorganic, and physical parameters.

LVL's senior staff has a tremendous amount of experience in environmental analyses, methods development, laboratory QA, and program management. Both management and staff understand the importance of maintaining project schedules and are committed to providing the highest quality chemical analyses and consultation services on schedule.

Laboratory procedures are fully documented, and we maintain formal programs for health and safety, radiation protection, waste handling and disposal, self-assessment, ethics training, and data archival, thus minimizing liability and risk to our clients.

Our extensive capacity and depth of resources, dedication to QA, many years of management experience, and technical expertise make LVL the most qualified contractor for your analytical program.

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## ANALYTICAL SERVICE CAPABILITIES

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LVL offers a full range of capabilities and a large capacity to support environmental laboratory programs. Water, soil, solid, waste, and air samples are analyzed for a wide variety of organic, inorganic, and physical parameters using U.S. EPA SW-846 methods, EPA 600 methods, 40 CFR Part 136, and American Society for Testing and Materials (ASTM) methods. Typical compound/analyte lists include, among others, Appendix IX, Target Analyte List (TAL), Target Compound List (TCL), drinking water, Priority Pollutants, Resource Conservation and Recovery Act (RCRA) (Toxicity Characteristic Leaching Procedure [TCLP]), and universal treatment standards (UTS). Routine service capabilities are listed below.

- **Organic Chemicals**—volatile and semi-volatile (base-neutral/acids) organics, organochlorine pesticides, organophosphorous pesticides, polychlorinated biphenyls (PCBs), polynuclear aromatic hydrocarbons (PAHs), herbicides, hydrocarbon fingerprinting, fuels, gasoline, gasoline additives, diesel, explosives (nitroaromatics, nitroguanidine, nitroglycerine, pentaerythritol tetranitrate (PETN), nitrocellulose), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), purgeable halogenated volatile organics, ethylene dibromide (EDB), glycols, alcohols, dissolved gases, and organic anions (acetate, formate).
- **Metals**—mercury, trace Inductively Coupled Plasma (ICP), and rare earths.
- **Wet Chemistry and Physical**—A full complement of gravimetric, titrimetric, and colorimetric tests; total organic carbon (TOC); total organic halides (TOX); oil and grease; petroleum hydrocarbons; automated chemical analyzer tests; anions by ion chromatography; hexavalent chromium; ignitability; density; free liquids; corrosivity; cyanide; and sulfide.
- **Radiochemistry**—A broad range of radiochemistry determinations and large capacity is available through Eberline Analytical Corporation's radiochemistry laboratories in.
- **Ancillary Services**—field sampling, field screening, data interpretation, method development and validation, onsite laboratories, mobile laboratories, analytical specifications preparation (QA project plans, sampling and analysis plans), and data storage.

Additional tests and services are available upon request.



## FACILITY AND EQUIPMENT

LVL operates a 39,000-ft<sup>2</sup> facility capable of performing thousands of environmental chemical analyses monthly. The laboratory is physically divided into separate work areas to facilitate sample throughput. These areas include: Sample Receipt and Refrigerated Storage, Sample Preparation and Extraction, Glassware Preparation, Organic Extraction, Standards Preparation, Wet Chemical Laboratory, and Instrumentation Laboratories.



The main instrumentation laboratories are: Cold Vapor Atomic Absorption (AA) and ICP Laboratory, Gas and Liquid Chromatography Laboratory, and Gas Chromatography (GC)/Mass Spectrometry (MS) Laboratory. Each of these laboratories has separate heating, ventilation, and air conditioning (HVAC) systems.

**Table 1. LVL Instrumentation**

Type	Quantity
GC/MS, variously configured for volatiles, semivolatiles, SIM	8
GC, detectors include ECD, FID, NPDI	8
HPLC, 2 UV Detectors, 3 Fluorescence Detectors, 1 Photodiode Array Detector	2
Gel Permeation Chromatographs	2
Trace ICP	1
Polyscan ICP	1
Cold Vapor-AA Mercury Analyzers	2
Ion Chromatograph	1
TOX Analyzers	2
TOC Analyzers	2
Automated Chemical Analyzer	1
Liquid Scintillation Counter	1

## LABORATORY INFORMATION MANAGEMENT SYSTEM

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LVL in operates an integrated Laboratory Information Management System (LIMS). The LIMS couples a mainframe computer with a custom-designed software system to provide a sophisticated sample tracking and laboratory data management system. LIMS allows the laboratory management staff to immediately access sample status, all available laboratory data, estimated completion date, and other information pertinent to a particular sample.

The LIMS system tracks the status of all samples in the laboratories, provides automatic transfer of data from ICP, GC, GC/MS, and High Performance Liquid Chromatography (HPLC) instrumentation and provides reports of analytical data to clients in client-specific formats, including U.S. EPA Contract Laboratory Program (CLP)-like forms. It also provides a variety of productivity reports and capacity models to the laboratory managers for use in evaluating laboratory performance and loading.



LVL understands the importance of maintaining project schedules and is committed to providing the highest quality chemical analyses and consultation services.

Peak sample loads are managed using a combination of the following procedures:

- Adding equipment through rental/leasing
- Adding overtime hours—LVL has the flexibility to pay necessary overtime and provide additional incentives, if necessary, to meet our peak load needs.
- Working shifts/deploying staff—LVL has a number of long-time bench analysts that are experienced in more than one unit of the laboratory. Managers routinely utilize this flexibility to meet individual unit loadings.
- Adding staff—LVL draws from a pool of highly experienced part-time employees (previously full-time) with which we have a continuing relationship.
- Forecasting sample loading—typically peak loads can be anticipated several weeks in advance of sample arrival allowing sufficient time to add resources.
- Turning away work—the majority of LVL's work is derived from large programs with customers that have contracted multiple laboratories; many of these programs not only allow right of refusal, but encourage it, to maximize on-time delivery.



The routine laboratory capacity presented in Table 2 is based on recent historical production. For unusual tasks or for short periods of high loading, all our departments have the ability to readjust resources to meet a higher sample load.

**Table 2. LVL Routine Laboratory Capacity**

<b>Analyses</b>	<b>Samples (monthly)</b>
GC/MS Volatiles	500
GC/MS Semi-volatiles	300
Pesticides/Herbicides/PCBs	600
Explosives/PAHs (HPLC)	200
TCLP Extractions	400
TOX	350
Wet Chemistry	4,000
ICP Metals (analyses)	8,000
Mercury	850



## CERTIFICATIONS, ACCREDITATIONS, AND APPROVALS

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LVL is NELAC-accredited for a broad range of tests/analytes through Pennsylvania. Table 3 shows the LVL state approvals.

A list of specific analytes for which we are NELAP-approved is available upon request.

Other significant agency approvals maintained by LVL shown in Table 4 include the **U.S. Navy (Naval Facilities Engineering Service Center) [NFESC]** for DOD, **NRC** (for receipt and analysis of low-level radioactive samples), and DOE.

**Table 3. LVL State Certifications**

State	Program Matrix		
	Drinking Water	Non-Potable/ Wastewater	Solid/Hazardous Waste
Indiana	✓	NA	NA
Kentucky	✓	NA	NA
Nevada	✓	✓	NA
New Jersey	✓	✓	✓
Pennsylvania	✓	NA	NA
South Carolina	✓	✓	✓
Tennessee	✓	NA	NA
Utah	✓	✓	✓
Vermont	✓	NA	NA
Virginia	✓	NA	NA
Washington	NA	✓	NA

NA = Not available

**Table 4. Government and Independent Agency Approvals**

NELAC Accreditation	PA
PA DEP	State Superfund
U.S. DOE	Approved by the DOE Consolidated Audit Program (DOECAP) to provide analytical services to DOE Contractors and Integrated Contractor Procurement Team (ICPT) contract holders
U.S. Navy	Navy Installation Restoration QA Program and full DOD approval
U.S. NRC	Radioactive Materials License

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## QUALITY ASSURANCE/QUALITY CONTROL

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An essential part of LVL's service to its clients is its corporate commitment from the "bench" through top management to provide high-quality products and services.



LVL employs QC procedures to ensure that all data generated in the laboratory conform to project/client requirements for accuracy, precision, and completeness, and that data are of known quality and legally defensible. In addition, LVL's systems and procedures for health and safety, waste handling and disposal, ethics training, and documentation are designed to protect our staff and mitigate liability to our customers. Quality resources are routinely involved in preventing defects

and implementing corrective actions that focus on process improvement and problem elimination.

Our QA professionals are experienced in analytical laboratory techniques and the administration of quality programs. Our QA department:

- Performs internal audits and oversees external audits
- Oversees corrective actions
- Reviews data packages and sample discrepancy reports
- Tracks and monitors performance testing samples
- Oversees the collection of Method Detection Limits (MDLs) and production and review of control charts
- Oversees and documents the training program
- Conducts quality and ethics training
- Maintains and coordinates production of controlled documents (QA Manual, standard operating procedures [SOPs])
- Tracks and maintains all certifications and agency/customer approvals and certifications.

Our QA Manual and SOPs document the LVL quality system. LVL maintains a master listing or index of SOPs that comprise the quality system. The QA Manual provides an outline and structure of the documentation used in the quality system. It may be augmented with other documents such as an ISO 9001 compliance guide and the National Environmental Laboratory Accreditation Program, Chapter 5, *Quality Systems*. The QA Manual is reviewed annually and revised as necessary to remain current with laboratory operations.

## PERFORMANCE TESTING PROGRAM PARTICIPATION

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LVL participates in the following **performance testing (PT)** programs:

- Water Pollution (WP), Water Supply (WS), Soil, and Discharge Monitoring Report Quality Assurance (DMRQA) (through a private vendor)
- Gross Alpha, Beta and Tritium through DOE EMLQAP and a private vendor
- DOE's Mixed Waste Analyte Performance Evaluation Program (MAPEP)

Additionally, we participate in various client-administered single and double blind programs.



## PROJECT MANAGEMENT

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It is our standard practice to assign a Project Manager to serve as the single point of contact for each of our clients. The Project Manager, supported by a team of experienced LVL staff, plans, coordinates, integrates, and monitors project activities. Efficient and effective project management is of prime importance to the successful execution of any contract and in building lasting client relationships. Our Project Managers are involved from project start to finish, from the time of initial client contact, and they are in communication with the client during the entire project. They are available to answer questions or provide additional information after project completion.

Our Project Managers:

- Respond in a timely manner to all requests.
- Interface with project personnel to plan and schedule sample shipments to the laboratory.
- Organize, schedule, and attend onsite/offsite project meetings as necessary or helpful.
- Serve as consultants for field efforts to optimize batch sizes, arrange sample shipment/receipt, and provide bottles and associated materials.
- Communicate the technical requirements to the laboratory staff.
- Monitor conformance of analytical protocols, QA, and data reporting with contract and technical requirements.
- Monitor cost and schedule requirements.
- Secure specialty laboratory capacity, e.g., radiochemistry, as necessary.

Our laboratory Project Managers and production staff have a commitment to maintain project schedules with a goal of 100% on-time delivery of quality data packages. If at any time, a delay in the required project turnaround time is anticipated, the Project Manager will immediately contact the client and inform them of the nature of the problem, the corrective action taken, and a revised delivery date for the analytical data report.

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## DATA DELIVERABLES

LVL has a dedicated data package assembly and electronic data deliverables (EDDs) production staff. Members of our Data Management department review each data package for completeness and consistency.

LVL provides numerous types of hard copy data deliverables, including:

- Standard commercial data summaries (results only)
- CLP/CLP-like (forms only)
- Full CLP/CLP-like (forms plus raw data)
- Client-specified custom formats

LVL also provides EDD for most of our clients. EDDs are provided in LVL's standard format as an ASCII, Lotus, or Excel file, or are customized to meet client requirements. These data are submitted on hard media or via the Internet (email or FTP).

LVL currently provides EDDs in numerous formats that include Excel spreadsheets as well as various ASCII file formats, AMSED, BEIDMS, PEMS, GIS Key, SEDD, GEDD, WSRC AN98, IRPIMS, and Agency Standard. Customer-specific formats are also available.



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## ONSITE/MOBILE LABORATORIES

LVL has provided cost-effective, rapid turnaround onsite/mobile laboratories tailored to project/site-specific needs since 1985. We have operated numerous mobile/transportable laboratories, which are set up onsite or nearsite to perform mobile analytical services in support of characterization and remediation programs, soil gas surveys, stack gas compliance programs, and groundwater remediation programs.

LVL professionals custom-assemble each mobile/transportable laboratory for specific campaigns. These mobile/transportable laboratories include the state-of-the-art instrumentation necessary to accomplish project-specific needs and requirements. Instrumentation used in our mobile/transportable laboratories include GCs, HPLCs, infrared spectrometers, AA/ICP instruments, and GC/MS. Typically a field laboratory capable of providing SW-846, CLP, or project tailored methods, including those for PCBs, VOAs, PAHs, semivolatiles, metals (TAL, RCRA), hydrocarbons, explosives and wet chemistry indicator tests, can be deployed within 14 days of request.

These mobile/transportable laboratories are staffed with experienced analysts that are knowledgeable in the selection and application of appropriate analytical methods, QA/QC criteria, reporting formats, and health and safety measures.

Analysis options for onsite testing can range from simple "screening" tests that yield results in near real-time to a full range of project-dedicated analytical capabilities, which are essentially the same services as those provided by fixed base laboratories. Typically results for the latter can be available in 12–36 hours.

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## CLIENT REFERENCES

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<b>Company</b>	<b>Contact</b>	<b>Telephone No.</b>
Bechtel Jacobs LLC	Mr. Ben Dettorre	(865) 576-9942
National Security Technology	Mr. Ted Redding	(702) 295-7220
Washington Closure-Hanford, Inc.	Ms. Joan Kessner	(509) 375-4688
Bechtel Bettis	Mr. David Nell	(208) 533-5495
CH2M Hill Hanford	Mr. Rich Weiss	(509) 372-9592
EnergySolutions	Ms. Robin Crabtree	(865) 241-9227
Fluor Hanford, Inc.	Mr. Steve Trent	(509) 373-5869
The Shaw Group	Ms. Reyna Castillo	(716) 505-8753
Pro2Serve (contractor for DOECAP)	Mr. Joe Pardue	(865) 576-0726
PADEP	Mr. Chris Sternbergh	(717) 783-9648

## REPRESENTATIVE PROJECT EXPERIENCE

Client/Location/Project Title	Project Duration	Project Highlights
Bechtel Jacobs Company, LLC (contract previously with Lockheed-Martin) Oak Ridge, TN  Basic Ordering Agreement	1991–ongoing	<ul style="list-style-type: none"> <li>▪ Fourth consecutive task order contract</li> <li>▪ Providing a wide variety of laboratory services, including environmental, waste characterization, support for the water program, discharge monitoring, and the TSCA incinerator.</li> <li>▪ Participation and acceptable performance in a statistical evaluation modeling program measuring data quality and timeliness</li> <li>▪ Full documentation packages and client-specific AMSED EDD.</li> </ul>
National Security Technology LLC (formerly Bechtel Nevada Corporation) Las Vegas, NV  Nevada Test Site Subcontract	1999–ongoing	<ul style="list-style-type: none"> <li>▪ Organic and inorganic analyses of low-level radioactive environmental and waste samples, as well as wet chemistry and miscellaneous analyses</li> <li>▪ Successfully audited by site contractor</li> <li>▪ Full documentation data packages, client BEIDMS format EDD</li> </ul>
Washington Closure Hanford, Inc.  (formerly Bechtel Hanford, Inc. and Westinghouse Hanford Company)	1991–ongoing	<ul style="list-style-type: none"> <li>▪ Analysis of radioactive environmental and waste samples</li> <li>▪ Broad range of organic, inorganic, and physical analytical testing in support of environmental and waste characterization site activities. More than 10,000 water, soil, sludge, waste liquids, waste solids, fauna, and flora samples have been analyzed utilizing SW-846, EPA, MCAWW and ASTM protocols</li> <li>▪ Method development, method validation, waste disposal and environmental consulting</li> <li>▪ Rigorous site-specific QA/QC and technical requirements</li> <li>▪ Full documentation and site-specific EDD</li> <li>▪ Greater than 98% on-time delivery</li> </ul>
Bechtel Bettis Idaho Falls, ID  Naval Reactor Facility	2005–ongoing	<ul style="list-style-type: none"> <li>▪ Second three-year contract</li> <li>▪ Analysis of more than 1,500 waste samples including paint chips, debris, wires, wipes, oils for TCLP characterization and PCBs</li> <li>▪ Full validatable data packages</li> <li>▪ Successfully audited by the client</li> </ul>
Fluor Fernald, Inc. Cincinnati, OH  Fernald Environmental Management Project	1993–2006	<ul style="list-style-type: none"> <li>▪ Analyses requested under task orders for waste characterization and groundwater monitoring programs</li> <li>▪ Required to demonstrate laboratory's proficiency through participation in client-administered PE program and yearly onsite audits</li> </ul>
SM Stoller (Contract previously with Kaiser-Hill Company, LLC) Golden, CO  Rocky Flats Environmental Technology Site	1996–2006	<ul style="list-style-type: none"> <li>▪ Basic ordering agreement for water quality and waste characterization</li> <li>▪ Analyses include TCLP, VOA, semi-VOA, metals, and wet chemistry</li> <li>▪ Required to submit data reports that can be fully validated and a customized electronic data format file</li> </ul>

<b>Client/Location/Project Title</b>	<b>Project Duration</b>	<b>Project Highlights</b>
NY State Department of Environmental Conservation 50 Wolf Road Albany, NY  State Analytical Contract	1986–2007	<ul style="list-style-type: none"> <li>▪ Three consecutive, multi-year, state analytical contracts to support CERCLA, RCRA, and NPDES programs</li> <li>▪ Full documentation data packages</li> <li>▪ CLP-type QA/QC</li> <li>▪ Met QA/QC requirements and provided on-time deliverables &gt;95% of the time</li> </ul>
PA Department of Environmental Resources Harrisburg, PA  State Analytical Contract – Hazardous Sites Cleanup Program	1991–ongoing	<ul style="list-style-type: none"> <li>• Third state analytical contract</li> <li>• Provide analytical support for site investigations of potential Superfund sites</li> <li>• Analysis of hundreds of water, soil, and waste samples for organic and inorganic parameters using EPA CLP protocols, QC requirements, and report formats as well as SW-846 and MCAWW procedures; low-level VOAs and dioxane.</li> <li>• Rapid turnaround requirements (2 to 14 day) in addition to routine 28-day turnaround</li> <li>• Analytical services to characterize samples of unknown matrices (e.g., drums, waste pits) to determine whether hazardous</li> </ul>
SAIC	2000–2002	<ul style="list-style-type: none"> <li>• Analytical support for several large DOD site programs</li> <li>• Nitroaromatic explosives and associated compounds</li> </ul>
Westinghouse Savannah River Co. Aiken, SC  Groundwater Program	1992–ongoing	<ul style="list-style-type: none"> <li>• Fourth consecutive quarterly monitoring program contract</li> <li>• Several hundred groundwater samples analyzed each quarter for water quality, priority pollutants, Appendix IX</li> <li>• Low-level radioactivity (tritium)</li> <li>• Electronic deliverables</li> </ul>
Westinghouse Savannah River Co. Aiken, SC  Site-Wide Sampling and Analysis Program	1988–ongoing	<ul style="list-style-type: none"> <li>• Fourth contract to support the Savannah River Plant RCRA remedial investigations</li> <li>• Analysis of thousands of soil samples in support of site characterization</li> <li>• Met QA/QC and data completeness</li> <li>• Analyses of radioactively contaminated samples</li> <li>• Reports in WSRC hardcopy and electronic diskette formats</li> </ul>
Commercial Nuclear Facilities (Confidential Clients)	2000–ongoing	<ul style="list-style-type: none"> <li>• Analysis of environmental samples and wastes</li> <li>• Adherence to site-specific DQOs and reporting requirements</li> </ul>
Integrated Contractor Procurement Team (ICPT)	1999–ongoing	<ul style="list-style-type: none"> <li>• Contract vehicle for nine DOE sites</li> <li>• Analysis of environmental waste and mixed waste</li> <li>• Comprehensive list of services, deliverables, turnaround time, and site-specific project and quality requirements</li> </ul>
Energy <i>Solutions</i> (formerly Duratek Federal Services) Oak Ridge, TN  Environmental Monitoring at Waste Storage Facility	2002–2007	<ul style="list-style-type: none"> <li>• Extensive monitoring of ground, surface, storm, and contact waters.</li> <li>• Rigorous QA/QC</li> <li>• Quick turnaround</li> <li>• Approved vendor for Energy <i>Solutions</i></li> </ul>
Energy <i>Solutions</i>  Isotek Systems  D&D Project at ORNL Building 3019	2007–ongoing	<ul style="list-style-type: none"> <li>• Waste characterization at Oak Ridge National Laboratory site</li> <li>• Rigorous QA/QC program with DOE oversight</li> </ul>

<b>Client/Location/Project Title</b>	<b>Project Duration</b>	<b>Project Highlights</b>
<b>Environmental Chemical Corporation</b> Burlingame, CA Basic Ordering Agreement and Various Site Specific Contracts	2002–ongoing	<ul style="list-style-type: none"> <li>• DOD sites (USACE and AFCEE) and industrial sites</li> <li>• Mixed waste analysis at USACE FUSRAP sites</li> <li>• Compliance with various site-specific QA/QC and technical requirements</li> </ul>
<b>CH2M-WG-Idaho and Battelle Energy Alliance</b> Idaho Falls, ID Basic Ordering Agreement with each for Sitewide Analytical Support	2003–ongoing	<ul style="list-style-type: none"> <li>• Multiyear BOAs to support various environmental programs</li> <li>• Analysis of potentially radioactive environmental and waste samples</li> <li>• Rigorous site-specific QA/QC requirements and electronic deliverables</li> </ul>
<b>Confidential Client</b> Analyses of Ingredients/Products for Toxic Chemicals	2007	<ul style="list-style-type: none"> <li>• Complex matrices</li> <li>• Analyses included melamine and related compounds in addition to a broad range of potentially toxic chemicals</li> </ul>
<b>Weston Solutions, Inc.</b> West Chester, PA Analytical Support for USACE oversight program	1997–ongoing	<ul style="list-style-type: none"> <li>• Semiannual groundwater project</li> <li>• Analyses for volatile, semivolatiles, EDB, metals, and cyanide</li> <li>• Compliance with USACE QA/QC requirements</li> </ul>

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## CONTACTS FOR MORE INFORMATION

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### **Judy Stone**

Senior Project Manager  
Lionville Laboratory  
208 Welsh Pool Road  
Lionville, PA 19341  
Voice: (610) 280-3029  
Fax: (610) 280-3041  
Email: stonej@lionvillelab.com

### **Orlette Johnson**

Project Manager  
Lionville Laboratory  
208 Welsh Pool Road  
Lionville, PA 19341  
Voice: (610) 280-3012  
Fax: (610) 280-3041  
Email: johnsono@lionvillelab.com

### **Bill Niemeyer**

Program Manager  
Eberline Services, Inc.  
601 Scarboro Road  
Oak Ridge, TN 37830  
Voice: (865) 291-8930  
Fax: (865) 483-4621  
Email: wniemeyer@eberlineservices.com