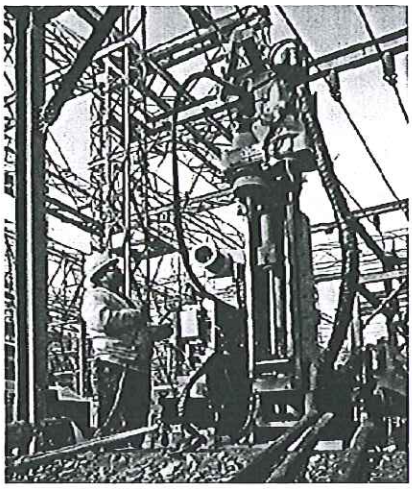


Expression of Interest

to provide

Professional Engineering Design Services and Construction Monitoring Services

for the

Orgas Keith Portals Projects

Boone County, WV

submitted to

West Virginia Department of Environmental Protection

Office of Abandoned Mine Lands & Reclamation

Charleston, WV

L.R.Kimball®

TARGETED RESULTS. EXPERTLY MANAGED.
WE STAKE OUR REPUTATION ON IT.

A CDI Company

ORIGINAL

RECEIVED
2013 NOV 15 A 9:43
OFFICE OF OIL & GAS DIVISION
STATE OF WV

Contact:

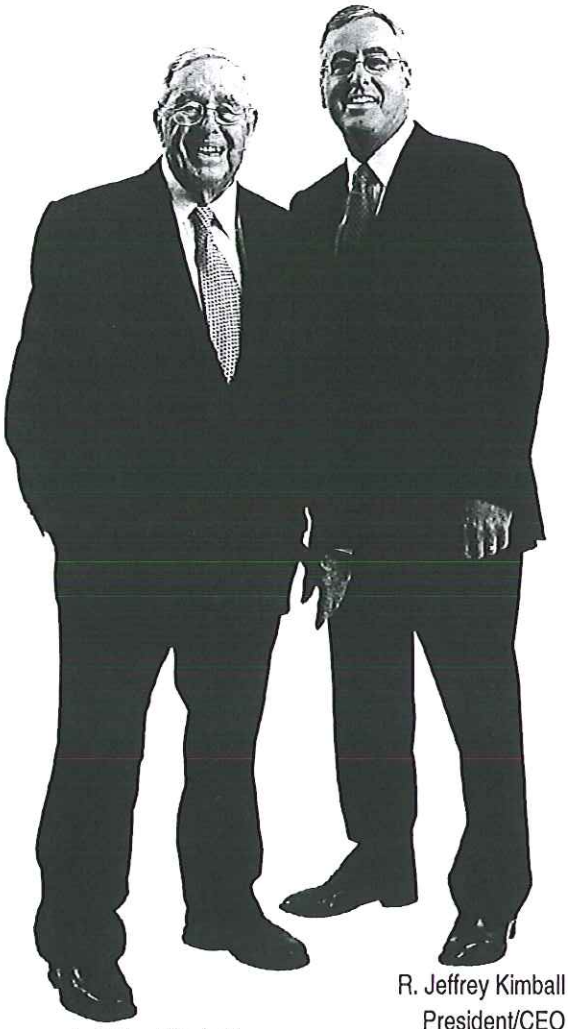
L.R. Kimball

David G. Minnear, PE

Senior Project Manager

615 West Highland Avenue
P.O. Box 1000
Ebensburg, PA 15931
Phone: 814.472.7700
Fax: 814.472.7712
e-mail: dave.minnear@lrkimball.com

The Kimball family name and reputation underpin every project and define every relationship. Throughout your project you will work with staff members who have the skills, knowledge and expertise, coupled with a can-do attitude and commonsense approach to ensure your success. We are committed to your project goals and we, personally, stake our reputation on making sure that you reach them.



R. Jeffrey Kimball
President/CEO

L. Robert Kimball
Founder/Chairman of the Board

L.R.Kimball
TARGETED RESULTS. EXPERTLY MANAGED.
WE STAKE OUR REPUTATION ON IT.
A CDI Company

November 15, 2011

Mr. Charles Bowman
Buyer Supervisor
State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

Re: Orgas Keith Portals Design, RFQ #: DEP15603
Expression of Interest

Dear Mr. Bowman:

CDI-Infrastructure, LLC dba L.R. Kimball is pleased to express our interest in providing the West Virginia Department of Environmental Protection with our professional engineering design services and construction monitoring services for the above referenced project.

L.R. Kimball is a multidisciplinary firm with more than 400 employees and 10 office locations, including our primary office in Ebensburg, PA that will be used to provide the full range of services required for this project. We have a long history of work in the Appalachian coal fields, with numerous past projects in VA, KY, WV and PA. **In addition, we have a strong presence in West Virginia, with an office in Charleston, and over 870 current and completed projects within the state. Of those WV projects, 33 of our recent projects are related to the mining industry.**

Services for this contract will be coordinated from **our Ebensburg PA office, but supplemental services will be provided from our Charleston WV and Coraopolis PA offices,** as appropriate, based on the detailed scope of services required.

The L.R. Kimball Team will draw on our many years of experience from numerous mining, abandoned mine lands reclamation, and watershed management projects, such as the following, to complete this work for you in a timely and cost-effective manner:

- Mine reclamation projects for OSM, PADEP, ODEP, and the USDA, throughout Pennsylvania, Ohio, West Virginia, Virginia, and Kentucky
- AML Remediation and Acid Mine Drainage Abatement Studies, Design, and Periodic Construction Consulting for the Yellow Creek Cleanup Project for the Blacklick Creek Watershed Association
- Multiple Assessment and Design Projects Intended to Evaluate Existing Sites and Make Recommendations for Incorporation of Passive AMD Treatment for site development
- Detailed assessment of abandoned mine spoil fill areas and Acid Base Accounting for design of site remediation at an Industrial Park

- Comprehensive Acid Mine Drainage and Non-Point Source Pollution Assessment and Abatement Recommendations for the Upper Tributaries of the Schuylkill River in cooperation with the Schuylkill County Conservation District, the Eastern Pennsylvania Coalition for Abandoned Mine Reclamation, and the Schuylkill Riverkeeper

Our proposed **Project Team (see enclosed for more detail) includes WV Licensed Professional Engineers and Professional Geologists** that have many years of experience in performing mining, mine reclamation, and wetlands evaluation projects.

As can be seen in the list of example projects and clients, L.R. Kimball has a wide range of experience with mining and environmental issues, and has worked for and with both mining companies and environmental concerns.

We look forward to this opportunity to work with the WV Department of Environmental Protection. Should you have any questions, please feel free to contact me at 814-472-7700 or via email at dave.minnear@lrkimball.com.

Sincerely,

David G. Minnear, PE
Senior Project Manager
Water Resources/Stormwater

O. Thomas McConnell, PE
Vice President, Operations Manager

DGM/yp

Enclosures

T:\Proposals_Presentations\C_e\Y2011\Proposals\E47 Water Resources\WVDEP\FINAL\cover letter

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment "B"

PROJECT NAME	DATE (DAY, MONTH, YEAR)	FEIN
Mallory (Gibson) Portals Design	11/15/2011	27-2620523

1. FIRM NAME	2. HOME OFFICE BUSINESS ADDRESS	3. FORMER FIRM NAME
CDI-Infrastructure, LLC dba L.R. Kimball	615 W. Highland Ave, Ebensburg, PA 15931	L. Robert Kimball & Associates, Inc.

4. HOME OFFICE TELEPHONE	5. ESTABLISHED (YEAR)	6. TYPE OWNERSHIP	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise)
814-472-7700	1953	Limited Liability Company	YES X NO

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE

615 W. Highland Ave, Ebensburg, PA 15931 / 814-472-7700 / O. Thomas McConnell, PE - Principal-in-charge; David G. Minnear, PE - Project Manager / 203 total employees in office, 15 AML Design Personnel

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS
R. Jeffrey Kimball, PE, PLS – Senior Vice President Robert J. Giorgio, President	Emil Lerch, Vice President, 814 472 7700 Ann K. Balazs, Vice President, 814 472 7700 Joel McCamley, Vice President, 814 472 7700 Rick Genday, Vice President , 814 472 7700 Walt Teesdale, Vice President, 832 369 5566

9. PERSONNEL BY DISCIPLINE

110 ADMINISTRATIVE	2 ECOLOGISTS	3 LANDSCAPE ARCHITECTS	9 STRUCTURAL ENGINEERS
21 ARCHITECTS	0 ECONOMISTS	4 MECHANICAL ENGINEERS	**8 SURVEYORS**
0 BIOLOGIST	2 ELECTRICAL ENGINEERS	**0 MINING ENGINEERS**	23 TRAFFIC ENGINEERS
15 CADD OPERATORS	21 ENVIRONMENTALISTS	8 PHOTOGRAMMETRISTS	210 OTHER
1 CHEMICAL ENGINEERS	1 ESTIMATORS	4 PLANNERS: URBAN/REGIONAL	
16 CIVIL ENGINEERS	**4 GEOLOGISTS**	0 SANITARY ENGINEERS	
21 CONSTRUCTION INSPECTORS	0 HISTORIANS	3 SOILS ENGINEERS	
13 DESIGNERS	4 HYDROLOGISTS	2 SPECIFICATION WRITERS	398 TOTAL PERSONNEL
3 DRAFTSMEN			

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 13

***RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.**

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? ☐ YES ☐ NO N/A

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Qualification Questionnaire".

NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
N/A		_____ Yes _____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE _____ Yes _____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE _____ Yes _____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE _____ Yes _____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE _____ Yes _____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE _____ Yes _____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE _____ Yes _____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE _____ Yes _____ No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE _____ Yes _____ No

12. A. Are your firm's personnel experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

YES Description and Number of Projects: L.R. Kimball has been involved in the remediation of abandoned mine lands for over 35 years, throughout an area extending from central Alabama to north-eastern Pennsylvania. These projects have been completed for Federal government agencies, state mining departments, county governments, non-profit watershed associations and mining companies, in 7 states, including West Virginia. L.R. Kimball has performed approximately 22 projects providing these services.

NO

B. Are your firm's personnel experienced in Soil Analysis?

YES Description and Number of Projects: L.R. Kimball maintains our own geotechnical drilling rigs and a accredited soils laboratory, and are qualified to complete geotechnical site investigations, collect rock and soil samples for analysis, and prepare detailed geological and geotechnical reports for a wide variety of projects. L.R. Kimball has performed approximately 554 projects providing these services.

NO

C. Are your firm's personnel experienced in hydrology and hydraulics?

YES Description and Number of Projects: L.R. Kimball has more than 15 engineers with qualifications and experience in the development of hydrologic assessments and hydraulic designs. This experience extends to stormwater management, dams and reservoirs, and a variety of hydraulic structures (pipes, open channels, etc.). L.R. Kimball has performed hundreds of large and small hydrology and hydraulics projects.

NO

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

YES Description and Number of Projects: Aerial photography acquisition and related photo lab services are subcontracted to qualified and competitive aerial photography firms. L.R. Kimball performs film scanning and provides digital aerial triangulation, photogrammetric mapping, and digital orthophotography projects of varying sizes and complexities. Our projects typically range in size from 25 acres to 60,000 acres. Softcopy digital mapping can be provided for nearly any scale and contour interval. L.R. Kimball has performed approximately 2,300 projects that include these and other mapping related services such as volumetric computations and GIS formatting.

NO

E. Are your firm's personnel experienced in domestic waterline design? (Include any experience in evaluation of aquifer degradation as a result of mining.)

YES Description and Number of Projects: L.R. Kimball has over 45 years of experience with the development of domestic waterline projects. Our geologists have many years of experience in the assessment of aquifers and the loss of water or degradation associated with mining, as well as industrial pollution. We have current projects in the Town of Rivesville, WV; as well as in Rose Township and White Township in Pennsylvania. L.R. Kimball has performed approximately 20 projects providing domestic waterline/potable water design.

NO

F. Are your firm's personnel experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES Description and Number of Projects: Description and Number of Projects: L.R. Kimball has more than 35 years of experience with the assessment and remedial design of acid mine drainage (AMD) in West Virginia, Ohio, and Pennsylvania. Our experience includes the design of wet seals for collection of AMD, and design of both passive and active treatment systems. We also have a long history in the regional, watershed-wide Assessment of AMD discharges for the development of remediation priorities. L.R. Kimball has performed approximately 28 projects providing these services.

NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
McConnell, PE, O., Thomas	20	20	0

Brief Explanation of Responsibilities

Mr. McConnell is L.R. Kimball's senior experienced Geotechnical Engineer experienced in geotechnical engineering, wetlands/environmental impact assessments and remedial investigations associated with mine reclamation projects, remedial action analysis and designs, site civil work, highway design, soils/foundation engineering projects, solid waste landfill designs, hydrology, hydraulics, permitting/certifications, soils laboratory testing, and material studies.

His engineering and supervisory experience includes the application of innovative, cost effective ground improvement techniques, anchor/tie-back systems, geosynthetic fabrics and geogrids and proprietary retaining wall applications. He is experienced in the application of traditional as well as innovative foundation systems for building structures; retaining walls, landfills caps, interim remedial ground modification techniques, cutoff walls, buried structures, and deep foundation systems.

He has completed numerous soils and foundation investigation reports for abandoned mine sites, landslide repairs, dams, airports, roadways, storage tanks, industrial structures, bridges, coal cleaning plants and coal storage silos. These projects included responsibility for subsurface investigations, field testing, laboratory testing, and geotechnical analysis relative to foundation stability, settlement, and slope stability.

Mr. McConnell is a member of the firm's dam inspection team and, as such, is responsible for on-site inspection, geotechnical assessment, and hydrologic/hydraulic analysis of dams and appurtenant structures, and project review. He is also a member of the Associates of State Dam Safety Officials (ASDSO).

Please see **Appendix 1** for the full resume

EDUCATION (Degree, Year, Specialization)

BS, 1979, Civil Engineering Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
ACI,ASTM, ASCE, ADSC, ASFE, ASDSO, DFI, PTI, NSPE	PE – 1981, PA; 1985, WV, NJ; 1990, FL; 1997, NC; 1995, MD; 1996, OH, VA, MA, DE, DC; Underground Storage Tank Inspector, 2002, NJ

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Minnear, PE, David G.	29	29	0

Brief Explanation of Responsibilities

Mr. Minnear serves as a Project Manager, specializing in water resources and solid waste projects for L.R. Kimball. He has worked on a wide variety of projects ranging from the reclamation of abandoned mine lands to the development of stormwater management regulations. Mr. Minnear is responsible for all civil projects involving abandoned mine land (AML) reclamation, abandoned mine discharge (AMD) remediation, fly ash and coal refuse disposal sites, municipal landfills and solid waste planning projects. In this capacity he has worked on AML and solid waste projects in Alabama, Kentucky, Virginia, West Virginia, Ohio, Pennsylvania, Maryland and New Jersey.

Mr. Minnear serves as the company's chief hydraulics engineer for projects involving dams. Hydrologic engineering projects under his direction and supervision have included the design and assessment of dozens of dams, inspection and preparation of assessment reports as to the status of water supply, recreational and hydroelectric generating dams, review and preparation of FEMA flood insurance studies, studies to modify pre-existing flood insurance studies to allow for development within areas previously designated as being within the floodway boundaries, and the development of area-wide model stormwater management criteria.

Please see **Appendix 1** for the full resume

EDUCATION (Degree, Year, Specialization)

BS, 1978, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
ASDSO, NSPE, PSPE, SAME, SWANA, PROP	PE – 1983, PA; 1985, WV; 1997, OH, DE, MD, VA; 1998, NJ

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Sciulli, PG, PMP, A. Edward	10	10	5

Brief Explanation of Responsibilities

Mr. Sciulli serves as a Senior Geologist for L.R. Kimball. He has experience conducting environmental, geologic, hydrogeologic and remedial investigations involving contaminated soil and groundwater. He is experienced in conducting subsurface investigations and monitoring well installation, hydrogeologic testing, environmental sampling of soils and groundwater, drilling inspection, soil and geologic logging, environmental assessment, remedial alternative analysis and remedial construction. His responsibilities have included collection, evaluation, and accurate reporting of environmental data associated with geologic and hydrologic assessments, and design and management of large scale, multi-site/multi-media investigation and sampling projects.

Mr. Sciulli also serves as the Geographic Information System (GIS) specialist responsible for design and implementation of environmental and geologic data management systems. He has developed an in-house relational database using Microsoft Access for the management and tracking of multi-site/multi-media environmental data. The system is capable of tracking/managing all types of environmental data including drilling and borehole information, well installation and hydrogeologic parameters, positional data, mapping data, remote sensing data, facility information, environmental samples and analytical results. Through integration of the database and ESRIs ArcView, he has developed site specific GIS systems for the spatial evaluation of site features, interpretation of subsurface conditions and investigation results, and generation of site specific reports and maps. He is responsible for data compatibility evaluations, quality assurance, database maintenance, design and implementation of data collection procedures, and training.

Mr. Sciulli's experience includes design and performance of geophysical investigations on environmental and geotechnical projects. His responsibilities include geophysical survey design and planning, data collection, data processing, interpretations and accurate reporting of all geophysical survey results. He has applied techniques to investigate subsurface problems on environmental and geotechnical projects, such as seismic refraction and downhole velocity surveys (P and S wave), spectral analysis of surface wave sounding, electromagnetic induction, DC resistivity, wireline logging, ground magnetic, and ground penetrating radar profiling.

Please see **Appendix 1** for the full resume

EDUCATION (Degree, Year, Specialization)

BS, 1986, Geoscience/Geophysics

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
National Ground Water Association, Environmental and Engineering Geophysical Society	PG, 1994, PA

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mock, PE, Cameron, R.	20	20	18

Brief Explanation of Responsibilities

Mr. Mock serves as a Senior Project Manager for L.R. Kimball, specializing in mining and water/wastewater projects. Mr. Mock performs a wide range of services related to mine permitting, mine waste disposal facilities design and permitting, site development, stormwater management, hydrology, hydraulics, highway design, earth sciences, erosion and sedimentation control, sewerage systems, water systems, municipal engineering, recreation facilities, engineering surveying, construction inspection and construction contract management.

Please see **Appendix 1** for the full resume

EDUCATION (Degree, Year, Specialization)

BS, 1977, Civil Engineering Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
ASCE, NSPE, PSPE, ASHE, AWWA	PE – 1981, PA; 1985, WV; 2003, OH, NC, VA, NJ; 2004, MD

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Marhefka, Jr., PG , James R.	0	0	0

Brief Explanation of Responsibilities

Mr. Marhefka serves as a Project Geologist for L.R. Kimball. He is responsible for managing all aspects of field efforts including the collection and evaluation of soils and geologic and hydrologic data on geotechnical, environmental assessment, groundwater assessment, remedial action, and storage tank projects. In fulfilling these responsibilities, he routinely performs drill inspections, soil and geologic logging, environmental sampling, hydrogeologic testing of monitor wells, inspection and supervision of remedial and construction contractors, evaluation of soil and water contamination, and supervision of junior level staff. Mr. Marhefka uses computer models for slug tests, potentiometric surface contours, geologic cross-sections, boring logs and soil profiles. He incorporates the data and presentations into reports for environmental assessment, fate and transport analysis, subsurface geology, groundwater hydrology, cost estimates, and underground storage tank closure reports.

Mr. Marhefka is experienced in various drilling techniques including air rotary, mud rotary, coring, augering, and cable tool methods. This experience was developed during his inspection of subsurface investigations for soil and rock sampling, in-situ testing, monitor well installation, well abandonment, and geotechnical investigations. His inspection experience also includes field testing of soil, water, and rock samples for physical characteristics and presence of petroleum products, organic and inorganic contaminants.

Mr. Marhefka is a certified storage tank professional and has conducted numerous UST removals and in-place closures. In completing these tasks, he routinely prepared UST closure reports and conducted site assessments to evaluate the nature and extent of petroleum hydrocarbon impacts to soil and groundwater. He also characterized contaminated soil and groundwater during remediation of UST sites and coordinated for the proper disposal of the materials. In addition, Mr. Marhefka has conducted UST Facility Operations Inspections in accordance with PADEP protocols.

Please see **Appendix 1** for the full resume

EDUCATION (Degree, Year, Specialization)

BS, 1987, Geology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
Pennsylvania Council of Professional Geologists, National Groundwater Association	PG, 1995, PA; Underground Storage Tank Inspector – 1994, PA; 2009, NJ

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Gordon, PE, Benjamin, B.	0	6	0

Brief Explanation of Responsibilities

Mr. Gordon serves as a Geotechnical Engineer for L.R. Kimball. He has over nine years of experience working on civil and geotechnical engineering projects. He has performed numerous geotechnical investigations for public buildings, industrial structures, roadways, and bridges. These projects included overseeing subsurface investigations, scheduling and interpreting laboratory tests, performing geotechnical analyses relative to foundation design, settlement, slope stability, and pavement design. Related geotechnical work includes drilling inspection, load test oversight, geosynthetic reinforcement applications, analyses of lateral capacity of piles and drilled shafts, wick drains, and analyses of deficient foundation systems.

Mr. Gordon has also provided inspection services, written scopes of work and specifications, performed hydrologic and hydraulic calculations, prepared cost analyses, and reviewed reports from other consultants.

Please see **Appendix 1** for the full resume

EDUCATION (Degree, Year, Specialization)

MS, 1998, Civil Engineering; BS, 1997, Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
ASCE, ASHE	PE - 2004, NY; 2007, PA; 2008, MD, MI, OH; 2009, WV, AZ, VA, CA, IA

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Letzo, Gregory P.	0	0	0

Brief Explanation of Responsibilities

Mr. Letzo serves as a Project Manager for L.R. Kimball. His duties include training, supervising, and scheduling geotechnical technicians; and maintaining, updating, and performing calibrations and calibration records of laboratory equipment.

Mr. Letzo has been actively involved in various aspects of laboratory soils testing performed according to industry standards at our AMRL and USACE accredited geotechnical laboratory. These include classification, specific gravity, Proctor, triaxial, California bearing ratio, permeabilities, resistivities, direct shear, consolidations and various other physical testing. He has laboratory concrete experience in measuring and testing compressive strength of cylinders and cubes.

Mr. Letzo also has field experience using the nuclear density gauge, testing compaction of soils using the sand cone method, and testing compaction of aggregates and bituminous concrete. He is experienced in the testing of concrete using the slump cone, air pressure meter, and casting test cylinders and cubes. He has also performed field QA/QC services and has performed as lead quality control field technician on projects.

Please see **Appendix 1** for the full resume

EDUCATION (Degree, Year, Specialization)

Elementary Education, 1991

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
American Society for Testing & Materials	

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Stenger, REM, CES, CRS, William E.	2	3	3

Brief Explanation of Responsibilities

Mr. Stenger serves as a Project Manager for L.R. Kimball with a wide range of environmental sciences experience. His years of practice in remedial investigation and remedial alternatives analysis, project management, and field supervision of a vast number of environmental and industrial engineering projects includes: mine permitting and abandoned mine land (AML) remediation; strategic development and implementation of multi-phase environmental investigations and audits; administration and performance of Phase I, II, and III environmental assessments; waste management planning and implementation; and performance of environmental impact studies. Mr. Stenger is also an accomplished land surveyor in both above and below-ground scenarios.

Mr. Stenger has extensive experience in field sampling and on-site management including: extensive organization, implementation and oversight of field sampling programs for soil, aqueous and gaseous matrices; drill inspection/logging using air rotary, mud rotary, HSA, SSA, cable tool, Geoprobe®, split spoon and coring methodologies; utilization of field testing equipment including: geophysical radar equipment, magnetometers, Troxler gauges, flame-ionization detectors, photo-ionization detectors, explosimeters, LEL/02 meters, pH meters, conductivity meters, temporary meters, flow meters, pressure transducers, interface/water level indicators, air monitoring devices, pumping devices (submersible, centrifugal, peristaltic, diaphragm and bladder pumps), Gamma loggers, Ensys Analysis kits, power/hand augers, etc.; and, operation and supervision of heavy equipment such as: excavators, loaders, backhoes, dozers, vibratory rollers and forklifts.

While previously serving as a Corporate Health and Safety Officer, Mr. Stenger gained extensive experienced in the organization and application of health & safety and training programs including: MSDS programs, field certification tracking, toxicology, industrial hygiene, site specific health and safety plans, NRC compliance programs and medical monitoring programs.

He has also prepared numerous permit applications and planning modules such as Surface Mining Permit Applications, NPDES and Industrial Planning Modules, Highway Occupancy Permits, Coal Refuse Disposal Permits, and Air Quality and Regulatory Compliance Permits.

Please see **Appendix 1** for the full resume

EDUCATION (Degree, Year, Specialization)

BS, 2006, Environmental Science

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
WEF, EAA, PAEP, EEGS, NGWA, NREP	REM, 2004

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Cannoni, PLS, Michael J.	0	0	0

Brief Explanation of Responsibilities

Mr. Cannoni serves as a Project Manager and Chief of Surveys. He has more than 35 years of experience in field surveying and engineering functions with 30 years of experience as survey party chief and site engineer. He is responsible for survey management, including budget preparation and control, preparation of proposals, scheduling, equipment maintenance, interaction with government agencies, public relations and survey preparation.

Mr. Cannoni's surveying experience includes ALTA, property, topographic, and hydrographic surveys, state highway construction, site layout and development, housing subdivisions, utilities, roads, municipal facilities, landfills, and slide investigations. He is familiar with the use of all survey equipment from Brunton compass, transits, and chains, to state-of-the-art fully robotic instruments, RTK GPS systems and computational equipment.

He is also experienced in the use of AutoCAD Land Development Desktop software, utilizing "Field to Finish" data collection.

Please see **Appendix 1** for the full resume

EDUCATION (Degree, Year, Specialization)

Civil Engineering, University of Pittsburgh at Johnstown

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
PSLS, PLSO, NJSPLS, WVSPLS, NYSPLS	PLS – 1987, PA; 2000, NJ, OH; 2008, WV

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Kopchik, PLS, PMP, George S.	0	0	0

Brief Explanation of Responsibilities

Mr. Kopchik's experience and education have provided him with the technical and management skills necessary for completing the most complex mapping projects. Over the past 22 years, Mr. Kopchik has had extensive experience in aerial photography, volume computations, digital orthophotos, GIS, and in producing topographic and planimetric maps. He is responsible for QA/QC activities including the checking and verification of planimetric and topographic maps, digital orthophotos, GIS projects, and stockpile inventories for numerous clients.

Since joining L.R. Kimball, Mr. Kopchik has gained valuable knowledge in all phases of photogrammetry and GIS. He has been involved in planning, management, production, and delivery of many mapping projects undertaken by the firm. His knowledge, growth and diversity have allowed him to attain the position of Assistant Operations Manager and Senior Project Manager. In summary, Mr. Kopchik has served in areas of mapping sciences such as project management, division operations, financial reports, budgets and estimates, technical and cost proposals, marketing, digital orthophotography, ArcInfo, KORK, Atlas, and Intergraph software, GIS applications, planning, and database design concepts, photogrammetry, surveying, data conversion, and stockpile inventories. Mr. Kopchik is also experienced in Microsoft Office.

Please see **Appendix 1** for the full resume

EDUCATION (Degree, Year, Specialization)

Associate, 1984, Computer Graphics

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
American Society of Photogrammetry and Remote Sensing	PLS – 1999, NC; 2003, SC

14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

Water Sampling/Monitoring Equipment

Stainless Steel Bailers (1" and 2"); 1 - Hydropunch HP 1000 Disposable Single Valve Bailers (1/2", 3/4", 1", 2"); 1 - Sludge Judge Sludge Sampler (15 ft.); 1 - VWR Scientific pH meter; 2 - Acculab Electronic Balance; 1 -Hach pH Meter; 1 - Omega pH Meter; 1 - Hanna Water Quality Meter w/Flow-Through Cell; 1 - Hach Conductivity Meter; 3 - Watermark Water Level Indicator; 1 - Solinst Oil/Water Interface Probe; 1 - ORS Oil/Water Interface Probe; 2 - 5-gallon Granular Activated Carbon Canister

Pumps

1 - Grundfos RediFlo-2 Submersible Pump w/Grundfos Controller; 1 - Grundfos RediFlo-4 Submersible Pump 10 gpm; 1 - Whale Submersible Pump Purge System; 2 - Centrifugal Pump; 1 – Geopump; 2 Peristaltic Pump; 1 – Honda 4 Hp Trash Pump

Aerosol Monitors

1 - MIE Miniram; 1 - MIE Dataram

Photoionization Detectors

1 - RAE Systems™ MiniRae Plus; 2 - Photovac 2020 Pro

Flame Ionization Detectors

1 - Photovac MicroFID

Combustible Gas / O2 Monitor

1 - Industrial Scientific Multi-gas Monitor
1 - Crowcon Triple Plus Data Logging Portable Gas Detector [O2, LEL, CO, H2S]

Colorimetric Tubes

1 - Dräger accuro® Gas Detection Pump (grab sample)

Meteorological Equipment

1 - Alnor® Velometer® Series 6000P Air Velocity Measuring Instrument
1 - Weatherview 32 Wireless Weather Station

Geophysical Equipment

1 - Geophysical Survey Systems, Inc. SIR-2 w/400 MHz Antenna (GPR); 1 - Geophysical Survey Systems, Inc. SIR-3000 w/270 MHz Antenna (GPR); 1 - Geonics EM-31 Terrain Conductivity Meter w/Polycorder Data Logger; 1 - Scintrex ENVIGRAD Magnetometer/Gradiometer; 1 - Radiodetection RD-400 Pipe and Cable Locator; 1- Radiodetection RD-4000 Pipe and Cable Locator; 1 - Schonstedt Magnetic Locator

Portable Generators

1 - Honda 2500X Generator

Personnel Protective Equipment

North, Willson, & MSA Half-Face & Full-Face Air-Purifying Respirators; Escape Pack; Hard Hats; MSA PAPR Respirators; Hearing Protection (disposable foam plugs); Safety Glasses; Tyvek Suits; Safety Full-body Harness; Nitrile Gloves; Saranex Suits; Steel Toed Boots; Latex Gloves; Chest Waders; Hip Waders

Field Communications

Cellular Phones; Vehicles

Air Sampling Pumps and Accessories

Low Volume Pumps

26 - MSA ELF Pumps; 3 - MSA Portable Pumps (Model G); 4 - GILAIR5 Air Samplers; 2 - MSA Portable Pumps (Model 482700)

High Volume Pumps

AIRCON2; 3 - Dayton Speedyaire High Volume Pumps; 10 - Air Samplers, 11 - Battery Packs, and 9 - Charging Modules; 10 - Allegro (model 22D1-V104B-AKV); 16 - Reliance Electric; 2 - Allegro (model 1531-107D-Q557X); 1 - Gillian High Flow Air Sampler

Pump Accessories

9 - SKC 30 mL Midget-Fritted Impingers; 6 - Impinger Holsters; 10 - MSA Tube Holder Assemblies; 10 - MSA Tube Holder Assemblies; 4 - High Volume Rotameters; 1 - Low Volume Rotameter; 6 - MSA Gravimetric Holder Clamps; 14 - MSA Gemini Twin Port Samplers; 9 - MSA Gemini Twin Port Sampler Covers; 1 - Box of Clips for Pump Cover; 1 - Box of MSA Spare Pump Parts (assorted); 4 - MSA Omega Pump Chargers; 1 - Box of Gilian Spare Parts (GILAIR5 Trimode Air Sampler); 2 - Gilian Gilibrators; 1 - MSA Portable Charger; 1 - Gilian DRC Battery Charger; 1 - Gilian Time-Released Charger (HFATR-5)

Various Samplers

1 - Quest Air Monitor; 1 - Tramex Moisture Counter; 1 - Dermhorst Moisture Counter; 9 - Quest Noise Dosimeters; 2 - SKC Air Sampling Pumps; 1 - Portacount Plus Respirator Fit Test; 18 - 3M Passive Diffusion Monitors; 2 - MSA Portable Alarms (for combustible gas and oxygen); 1 - Battery Charger and 2 – Hoses; 1 - Andersen Sampler, Inc. Kit; 1 - Andersen N6 Impactor Sampler (single stage);

1 - Andersen 1ACFM Ambient Sampler (stages 0-7); 1 - 22 Niton Radon Detector; 1 - MiniRAE Plus Professional PID Kit; 1 - MSA Ventilation Smoke Tube Assembly; 2 - Dywer Digital Handheld Manometers; 1 - Micronta Ohm-meter; 1 - Corning PS15 pH Meter; 1 - Weathertronics Weather Event Recorder; 1 - Quick Fix Acetone Sampler; 2 - Alnor Velometers; 1 - Quick Fix Asbestos Sample Filter

Miscellaneous

27 – Tripods; 6 - Tuff Boxes; 12 - Containers of Drager Ammonia Sampling Tubes; 5 - Silver Pelicans; 10 - Datachem Treated QFF NMAN 5040 (diesel) Cassettes; 4 - Silver Gilians; 2.5 bxs - Fisherbrand Transport Swabs; 1 - Pelican 160; 3.5 bxs - SKC Air-O-Cell Cassettes; 1 - MSA (Cassettes/Tubes/Swabs); 100 - Glass Microfier Filters; 1 - Box of Assorted Sampling Tubes; 5 - Box of PCM Cassettes; 1.5 bxs - SKC 37 mm 3pc Cassettes; 5.5 - Box of TEM Cassettes; 4 - Box of Lead Cassettes; 30 - Cassette Blanks

Respirator Filters

10 - MSA OptiFilters; 2 - North Air Filters (Part N7500-3); 50 - Wilson Air Filters; 2 - MSA Air Filters (Part 814822); 18 - North Air Filters (Part 7580P100); 2 - MSA Air Filters (Part 814902); 6 - North Air Filters (Part7581P100); 6 - MSA Air Filters (Part 459318); 10 - LowRider Air Filters; 8 - Scott Air Filters (Part 100698); 7 - Respirators (Assorted); 1 - Drager Tube Opener; 2 - Drager Aspirator Bulbsw/Tube Openers; 1 - Drager Qualitative Fit Test; 1 - Drager Quickair – 10 Emergency Escape Breathing Apparatus; 1 - Troemner 100 gram Calibration Weight; 1 - Microlead IV Printer and Interface 400 ft. - Flexible Clear Plastic Tubing 50 - Chemplex XFR Sample Cups w/Lids; 1 - Barnstead Thermolyne Hotplate Hubbard Screen Sieves (Assorted Mesh Sizes); 4 boxes - Allegro Personal Safety Equipment Cleaning Pads; 1 - SKC Aluminum Cyclone; 1 - MSA Gas Check Calibration Kit; 2 containers - Drager Air Current Tubes; 2 containers - Allegro Smoke Tubes for Qualitative Fit Tests; 1 - Xircom Port Adaptor; 6 - Lock Flow Valve Assembly; 100 - MFS Cellulose Acetate Membrane Filters; 18 - B-D Syringes; 1 - Compass Tally Register; 1 - Sump Pump; 1 - WildCo Stream Bottom Sampler; 100 - Nucleopore 37 mm Absorbent Pads; 2 - Stainless Steel Hand Augers w/extensions; 2 - Stainless Steel Trowels and Scoops; 1 - Drum Pump; 1 - Drum Thief; 55-Gallon Steel Open Top Drums; 35-Gallon Plastic Closed Top Drums; 9 - Boxes of Microscope Slides; 1 - Olympus BHTU Microscopes Box of Microscope Equipment; 1 - Olympus Microscope Lens 8mL - Olympus Optical Co., LTD. Immersion Oil; 7 - Boxes of Microscope Slides (Assorted) ½ box - Microscope Cover Glasses; 1 - Microscope Slide Boxes; 2 – Bulbs (for Microscopes)

Surveying Equipment

4 – Pentium CAD stations (Autodesk Land Desk Top 2009, AutoCAD Civil 3D 2009 & MicroStation); 2 – Pentium CAD stations (Autodesk Land Desk Top 2009, AutoCAD Civil 3D 2009) Laptops w/ remote access; 3 – Leica System 530 GPS Units (for airborne, RTK & static applications); 7 – Leica System 1200 GPS Units (for airborne, RTK & static applications); 4 – Trimble R8 GNSS GPS Units; 2 – Trimble S6 Robotic/Prismless Total Stations; 4 – Trimble TSC2 Data Collectors w/ SurvPro Survey Software; 1 – Topcon GPT-8003A (3") Auto Tracking Pulse (Robotic/Prismless) Total Station; 1 – Leica TCA1103 Robotic Total Station; 1 – Topcon GTS 701 Total Station (2") – onboard data collection; 1 – Topcon GTS 702 Total Station (3") – onboard data collection; 1 – Topcon GTS 211D Total Station (5"); 1 – Sokkia Set 3 Electronic Total Station (3"); 1 – Sokkia Set 2 Electronic Total Station (5"); 3 – Juniper Allegro Data Collector and Carlson SurvCE software; 1 – Leica NA828 Level; 3 – Carl Zeiss NI-2 Levels; 1 – Carl Zeiss Micrometer for NI-2 Level; 1 – 12' Aluminum Boat; 1 – 16' Lowe Aluminum Boat with Trailer; 1 – 16' Lowe Aluminum Jon Boat with Trailer; 1 – Johnson 9.9 HP Outboard Motor; 1 – Laser Tech. Impulse 200 XL Range Finder with Red-Dot Scope 1 – Laser Tech. Mapstar Compass Module; 4 – Airport-Band Radios; 1 – Cub Cadet Utility Vehicle; 1 – Yamaha 450 Grizzly ATV; 1 – Trimble GZ 3D Laser Scanner

**If requested, Kimball will provide a current cleaning and calibration certificate for any of the instruments in the survey equipment list.*

Photographic Laboratory

1 – UCP2 Contact Printer (EPC); 1 – UDS2 Contact Printer (EPC); 1 – 1650 2 Color AM Press; 1 – 126 Zenith Offset Press 18" x 24"; 1 – Xerox 2101 black and white printer; 1 – Xerox 6060 color printer; 1 – Versamat 11C-M Processor; 2 – Kodamatic 48" 125A Processors; 1 – Opti-Copy Process Camera; 1 – 4100 HP black and white printer; 1 – Vexcel Imaging Austria Ultra Scan 5000 scanner; 1 – Leica DSW600 – Precision Aerial Film Scanner

Photogrammetry

1 – Zeiss C-130 Analytical Stereo Plotter; 1 – Zeiss C-120 Analytical Stereo Plotter; 5 – KLT/ATLAS Digital Orthophoto Workstations; 7 – KLT/ATLAS Softcopy Workstations

Digital Mapping and GIS

Workstation

32 bit and 64 bit XP Workstations

Display Terminals

High resolution graphic displays

Plotters

1 – Hewlett-Packard 5500 plotter; 2 – OCE 9000 Series Plotters

Printers

5 – Laser printers; 2 – CD/DVD Epson Printer

Storage Devices

6 – 120GB Portable Storage Devices; 2 – SecurStor 16000 Raid Data Storage Tower containing 16-120GB hard drives for 1.92TB of storage space; 3 – 1 TB Portable Storage Devices

Portable Media Drives

6 – CD Recorders; 1 – 4mm DAT Tape Drives; 4 – Hewlett Packard DVD Writers DVD 2001; 1 – DVD/CD 4-Bay Multi-Writer

Scanners

1 – OCE 9800 Scanner

Software

AutoCAD 2010; Autodesk Raster Design; Autodesk Field Survey; ArcGIS 9.3; ArcView; ArcView 3D-Analyst Extension; ArcView Spatial Analyst Extension; ArcView Network Analyst Extension; ArcGlobe; ArcInfo;ArcIMS ArcSDE; Workstation ArcInfo; Workstation ArcInfo Grid; Workstation ArcInfo TIN; Workstation ArcInfo COGO; Workstation ArcInfo Network; Workstation ArcInfo Arcpress; Autometric KORK KDMS; KLT ATLAS SoftCopy Photogrammetric System; ISBBA Aerotriangulation Package; Ashtech PRISM GPS; MrSID Digital Image Compression Software; Bently Microstation; Microsoft SQL Server;

Adobe Photosnop v. 7.0; Corel Graphics Suite v. 10; Microsoft Visual Studio

Drilling

Drills:

1 - CME 55 Truck mounted; 2 - CME 45C 4X4 Truck Mounted (2); 1 - CME 45C Track Mounted; 1 - Acker XLS Track Mounted; 2 - Acker Scout Track Mounted (low clearance / Geo Probe);
1 - Acker MP6 4X4 Truck Mounted; 1 - Portable Masonry Core Drill (electric)

Note: All truck & track mounted drills are equipped with 4000 watt AC/DC power inverters.

Support Vehicles:

6 - 4X4 1 Ton Extended Cab Pick-up Trucks (6); 1 - 4X4 ¾ Ton Pick-up Truck; 1 - Jerr Dan Tiltbed/Transport Truck; 1 - Peterbuilt Ramp Truck; 2 - Quad Runners (2); 2 - Transport Trailers (2)

Water Supply Pumps:

2 - Bean Quad Supply Pumps (2); 1 - Bean 35 (diesel) Supply Pump; 5 - Centrifical Supply Pumps (5); 3 - Electric Sump Pumps (3); 1 - Grundfos Submersible Pump

Misc: Tooling and Support Equipment:

1 - 200' 4 ¼ I.D. Hollow Stem Augers; 1 - 250' 3 ¼ I.D. Hollow Stem Augers; 1 - 200' 2 ½ Continuous Flight Augers; 1 - 800' "Q" Series Coring Rods; 1 - 6 NQ2 Core Barrels; 3 - HQ Core Barrels;
1 - HW Casing Advancer; 1 - NW Casing Advancer; 1 - 250' HW Drill Casing; 1 - 450' NW Drill Casing; 1 - 50' N Drive Casing; 50 - NWT 6" Drill Casing; 6 - Electric/Kerosene Torpedo Heaters; 2 - Torch Sets;
2 - CME Continuous Sampler Systems; 2 - 1,200 Gallon Water Tank; 3 - 575 Gallon Water Tanks; 4 - 275 Gallon Water Tanks; 1 - Electric Generator; 1 - MIG Welder; 4 - 5 Thousand Feet 1" Plastic Water Supply Line;
3 - Hydrant Water Meter Sets (calibrated); 1 - Chem Grout Grout Pump

Geotechnical Equipment

6 - Troxler Nuclear Density Gauges (1351); 1 - Troxler Nuclear Density Gauges (1352); 6 - Troxler Nuclear Density Gauges (3411-B); 5 - Troxler Nuclear Density Gauges (3430);
5 - Troxler Nuclear Density Gauges (3440); 1 - Humboldt Scientific Nuclear Density Gauges (5001); 2 - Soiltest Consolidometers; 1 - Soiltest Constant Head Perm Board; 1 - Soiltest Direct Shear, Machine;
1 - Soiltest Horizontal Extruder; 1-Despatch Oven; 1 - Precision Scientific Oven; 1 - Grieve Oven; 1 - Quincy Oven; 1 - Lindberg Oven; 1 - Soiltest Proving Ring 10000lb; 1 - Karrol Warner Proving Ring 2000lb;
1 - Soiltest Proving Ring 2000lb; 1 - Karrol Warner Proving Ring 2500lb; 1 - Soiltest Proving Ring 500lb; 1 - CDI Proving Ring 6000lb; 1 - Ohaus Scale, Beam Balance; 1 - A and D Scale, Digital 150lb Field;
1-Rice Lake, Digital 3000gm; 1 - Ohaus Scale, Digital 2100gm; 1 - A and D Scale, Digital 310gm; 1 - Scale Store Scale, Digital 50lb; 1 - Ohaus Scale, Digital 6000gm; 1 - Forney Sieve Shaker, Aggregate;
2 - Gilson Sieve Shakers, Small; 1 - Karrol Warner Triaxial Compression; 1 - Overhead Graham Triaxial Compression; 3 - Karrol Warner Triaxial, Chambers; 1-Karrol Warner 6" Triaxial, Chamber;
3 - Karrol Warner Triaxial/Permability Panel Boards; 1 - GE Vacuum, Specific Gravity; 1 - Cenco Vacuum, Triaxial/Perm Station; 1 - Soiltest Vertical Extruder; 1 - FMC Vibratory Table; 1 - Soiltest Consolidation, Machine

Computer/Information Management Systems – Office and Field Use

760 - Computers (Pentium III MHz or Faster) (Laptops and Desktops); 92 – Printers; 12 - Plotters

Software

Aqtesolv 3.01; Harvard Graphics Instant Charts; Aqtesolv Rockware; Health and Safety Plan 3.0; Aquifier Test Prp; HEC-RAS 1.1; ArcGIS 3D Analyst for ArcGIS 8; Hydra Rendering Software 2.3; EZ-Plant North V3.6;
EPA – Response; Field Certifications Tracking System 2.1; Hydra Storm Sewers 2000; EPA - Quality Assurance Sampling Plan; Hydraflow Hydrographs 2002; FlowMaster for Windows; Hydraflow Hydrographs 5.0;
Geosystem; Hydraflow Hydrographs 6.02; Geosystem - Cement Products; Hydraflow; Geosystem – Limits; Hydra Storm Sewers; gINT 5; Hydraulix Toolbox 1.0; gINT 5; Hydronet; gINT 6; Hydronet 4.0;
Groundwater Vistas 1.9; MathCAD Standard 2000; Harvard Graphics Advanced Presentation 7.02; MathCAD Standard 8; Harvard Graphics Chart XL 3.0; Visual HELP 1.1; Harvard Graphics Gallery;
WaterCADD for Windows; Waterloo Hydrogeologic; ESEbase; Watershed Modeling System 7.0 Module; WinLog 3; Watershed Modeling System (WMS) 6.1; XSTABL 5; WinLog 2000; WinFence;
HAP Simulation Weather Data; Modflow; GeoHEC-1; ModflowT; Surfer for Windows; Rockware Utilities; Construction Criteria Base System; MCACES Estimating System; Corel Flow; Hydrographs for Windows; HY-8
Penn State Urban Hydrology Model; Windows XP; Office Professional Bookshelf; HEC-2; SPECSINTACT specification system; ARMS review management system; Corel Draw; HY-9; AUTOCAD Map; Image-In Multimedia
Album; Microsoft Project; Primavera Expedition; Primavera Project Planner; Microsoft Project; Internet Explorer; Project for Windows; Windows NT

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST (L.R. Kimball Project Cost)	PERCENT COMPLETE
PADEP BAMR - Mt. Carmel Professional Design Services for the Reclamation of Abandoned Mine Lands	Pennsylvania Department of Environmental Protection Rachel Carson State Office Building PO Box 8476 Harrisburg, PA 17105-8476	Provide investigation and assessment report	$18,100	95%
LR Kimball provided the site investigation and assessment report for a portion of the Town of Mt Carmel, Northumberland County, PA, that was underlain by several coal mines. The assessment was used to prepare remedial plans to address groundwater surges which affected the surface owners in the area.				
Freeland South Mine Subsidence Evaluation Project Hazel Township, Luzerne County, PA	Pennsylvania Department of Environmental Protection, Bureau of Abandoned Mine Reclamation PO Box 8476 Harrisburg, PA 17105	Provide drilling and geophysics services.	$128,377	95%
L.R. Kimball and our subcontractor, The ARM Group, performed a detailed site inspection of the Freeland Mine Subsidence Project, in Hazel Twp, Luzerne County. The area had a long history of mine subsidence associated with past deep mining, but the mine maps were inadequate to identify the mine voids to permit proactive sealing. The L.R. Kimball Team used both drilling and geophysics to assess the area, identify mine voids and prepare recommendations for future mine sealing.				
South Sandy Creek Watershed Association - Design of AML Remediation, Irwin Twp, Venango Co, PA	South Sandy Creek Watershed Association PO Box 223 Stoneboro, PA 16153	Provide design and permitting services	$81,623	50%
L.R. Kimball provided the design and permitting services associated with the preparation of a construction bid package for the reclamation of the Gadsby Strip Mine. In addition to the services provided for this project, L.R. Kimball had also done the regional water quality assessment for the watershed, and the subsurface geotechnical investigation for the Gadsby site, as separate projects.				
Lancashire No. 15 AMD Treatment Plant Quality Control Services Barr Township, Cambria County, PA	HRI, Inc. 1750 W. College Ave., Ste 2 PO Box 155 State College, PA 16801	Provide quality control services to HRI during the construction of the Lancashire No. 15 AMD Treatment Plant.	$9,255	10%
Town of Rivesville Water System Improvements Project Rivesville, WV		Provide water system improvement design services.	$505,998	85%
L.R. Kimball updated the West Virginia Infrastructure and Job Development Council's (WVIJDC) ***Preliminary Application and Associated Preliminary Engineering Report*** for the Town of Rivesville, WV, and water system improvements project which included line replacement, supplemental chlorination and storage tank work. The application was submitted and approved in 2000, then renewed annually until funds became available in 2007. WVIJDC recommended a 3 million budget: $1.5 million Small Cities Block Grant; $750,000 WVIJDC Grant; and $750,000 WVIJDC Loan for 0 % interest and a 40-year term. L.R. Kimball designed the water system improvement project which included water line replacements, replacement of the water storage tanks, pumping stations, and adding a new telemetry system.				

On-Call Drilling Services	Allegheny Energy Supply Company, LLC 800 Cabin Hill Dr. Greensburg, PA 15601	Provide sub-surface exploration services in Pennsylvania, Virginia, and West Virginia.	$309,097	75%

L.R. Kimball has been the sole provider for sub-surface exploration services for Allegheny Power since 2006. The original two-year agreement was extended by Allegheny Power for an additional three years.

Under this agreement, L.R. Kimball has been dispatched to remote locations in Pennsylvania, Maryland, Virginia & West Virginia.

L.R. Kimball's long standing agreement with Allegheny Energy focused on L.R. Kimball's ability to provide experienced ATV and truck mounted drill crews that were able to provide service in some of the most challenging undeveloped sites to determine geologic conditions for the extension and rehabilitation of power transmission line alignments, structures, and sub-stations. L.R. Kimball crews are responsible for all aspects of these operations including accessing of remote sites, water and supplies, as well as specialty services utilizing "Low Clearance" equipment for assignments requiring activities work under energized lines.

One of L.R. Kimball's recent assignments included twelve structure locations and substation expansion for the Cheat Lake Sub-Station and Line Loop project in Cheat Lake, WV.

PADEP Blanket Mapping and Surveying Contract **Various Locations, PA**	Pennsylvania Department of Environmental Protection, Bureau of Abandoned Mine Reclamation PO Box 8476 Harrisburg, PA 17105	mapping and surveying services to the PADEP Harrisburg, Ebensburg, and Wilkes-Barre offices for various projects in Pennsylvania.	$300,000 (Approximate)	N/A

In 2005, L.R. Kimball was contracted by the PADEP Bureau of Abandoned Mine Reclamation to perform Mapping and Surveying services under a blanket contract. Since then, the DEP has offered amendments to L.R. Kimball on a yearly basis to extend the terms of the original contract. To date L.R. Kimball has performed nearly 60 surveying and mapping related projects for the Ebensburg, Harrisburg, and Wilkes-Barre PADEP offices. These services include geodetic ground control, establish multi-point construction baselines, field location and verification of pipes and other features, photogrammetric digital softcopy mapping including LiDAR data incorporation, final edit and delivery of control reports and mapping for each project. Based upon district, digital data and/or hardcopy plots were also delivered to the client. Several projects completed under this contract include:

AMD Coal Pit Run, Cambria County, PA. L.R. Kimball produced planimetric mapping and contours for a scale of 1"= 100' with a two-foot vertical interval in 2005.

AMD Indian Head, Dauphin County, Harrisburg, PA. L.R. Kimball survey crews collected GPS ground control and set benchmarks for a baseline survey in 2005. L.R. Kimball also produced planimetric mapping and contours for a scale of 1" = 50' with a one-foot vertical interval.

AMD Arnot #2, Tioga County, PA. In 2006, L.R. Kimball produced planimetric mapping and contours for approximately 80 acres at a scale of 1" = 100' with a 2' vertical interval. L.R. Kimball also acquired horizontal and vertical ground control and surveyed a construction baseline and monuments. L.R. Kimball surveyors also completed survey cross sections.

AMD Alvan, Fulton County, PA. An L.R. Kimball survey crew collected 5 horizontal/vertical control points and survey a 2 monument construction baseline in 2006. L.R. Kimball produced planimetric mapping and contours for a scale of 1" = 100' with a two-foot vertical interval.

AMD Wehrum, Buffington Twp, Indiana County, PA. In 2007, an L.R. Kimball survey crew collected horizontal/vertical control points, surveyed a construction baseline, and picked up drainage information and pipe inverts. The crew also located and provided an elevation on the abandoned Wehrum mine shaft. L.R. Kimball produced 107 acres of planimetric mapping and contours for a scale of 1" = 100' with a two-foot vertical interval.

OSM Coaltown, Butler County, PA. L.R. Kimball survey crews collected GPS ground control and set benchmarks for a baseline survey in 2005. The surveyors also plotted 5 cross sections because of dense tree cover. L.R. Kimball also produced planimetric mapping and contours for a scale of 1" = 100' with a two-foot vertical interval.

OSM Cherry Run S., Jay Township, Elk County, PA. From 2005 to 2006, L.R. Kimball surveyors collected horizontal and vertical ground control. L.R. Kimball produced planimetric mapping and contours for a scale of 1" = 100' with a 2'vertical interval.

OSM Slate Lick Run East, White Township, Clearfield County, PA. L.R. Kimball surveyors collected horizontal and vertical ground control for the project using GPS methods and also located two construction baselines in 2006. L.R. Kimball produced planimetric mapping and contours for a scale of 1" = 100' with a 2' vertical interval.

CN BBS Coal Company, Indiana County, PA L.R. Kimball produced planimetric mapping and contours for 260 acres at a scale of 1" = 100' with a two-foot vertical interval. L.R. Kimball also acquired horizontal and vertical ground control and surveyed a construction baseline with four monuments.

OSM Stone House NE, Clarion Township, Clarion County, PA. In 2006, an L.R. Kimball survey crew collected 5 horizontal/vertical control points and surveyed a 2 monument construction baseline. L.R. Kimball produced planimetric mapping and contours for a scale of 1" = 100' with a 2' vertical interval.

OSM Nanticoke Creek, Hanover Twp., Luzerne Co., PA. L.R. Kimball produced planimetric mapping and contours for approximately 972 acres at a scale of 1" = 00' with a 2' vertical interval. L.R. Kimball also acquired horizontal and vertical ground control and surveyed a construction baseline and monuments. This project took place in 2006.

OSM Blue Ball Waterline, Boggs and Morris Townships, Clearfield County, PA. From 2006 to 2007, L.R. Kimball added to previously collected mapping and produced additional planimetric mapping and contours for approximately 24 acres. The mapping was prepared for a scale of 1" = 50' with a two-foot vertical interval.

OSM Pittston Plaza Mall, Pittston Twp., Luzerne County, PA. In 2007, L.R. Kimball produced planimetric mapping and contours for approximately 293 acres at a scale of 1" = 100' with a two-foot vertical interval. L.R. Kimball also acquired horizontal and vertical ground control and surveyed a construction baseline and monuments.

OSM Annandale South, Cherry Township, Butler County, PA. An L.R. Kimball survey crew collected horizontal/vertical control points and surveyed a construction baseline in 2007. L.R. Kimball produced planimetric mapping and contours for a scale of 1" = 100' with a two-foot vertical interval.

OSM Goshen Waterline, Goshen and Lawrence Townships, Clearfield County, PA. In 2007, an L.R. Kimball survey crew collected horizontal/vertical control points and survey a construction baseline. L.R. Kimball produced planimetric mapping and contours for a scale of 1" = 50' with a two-foot vertical interval.

OSM New Bethlehem, Redbank Township, Armstrong County, PA. In 2007, L.R. Kimball produced planimetric mapping and contours for approximately 53 acres at a scale of 1" = 100' with a 2-foot vertical interval. L.R. Kimball also acquired horizontal and vertical ground control and surveyed a construction baseline with four monuments.

OSM South Bruin, Parker Township, Butler County, PA. L.R. Kimball produced planimetric mapping and contours for approximately 56 acres at a scale of 1" = 100' with a two-foot vertical interval in 2007. L.R. Kimball also acquired horizontal and vertical ground control and surveyed a construction baseline with four monuments.

OSM Redbank Twp., Clarion County, PA. In 2007, L.R. Kimball produced planimetric mapping and contours for approximately 207 acres at a scale of 1" = 100' with a 2' vertical interval. L.R. Kimball also acquired horizontal and vertical ground control and surveyed a construction baseline with two monuments.

OSM Lamberts Run, Stonycreek Township, Somerset County, PA. In 2009, L.R. Kimball produced approximately 74 acres of mapping at a scale of 1" = 100' with a 2' contour interval. In addition to geodetic control, surveyors placed 4 benchmarks and acquired additional vertical points in one area of the site to better define the terrain.

TOTAL NUMBER OF PROJECTS: 1,015	TOTAL ESTIMATED CONSTRUCTION COSTS: $ 254,058,625 (Total L.R. Kimball Project Cost)

16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
N/A					

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST (L.R. Kimball Project Cost)	YEAR	CONSTRUCTED (YES OR NO)
Professional Design Services for the Reclamation of Abandoned Mine Lands, Palo Alto Various Locations, PA	Pennsylvania Department of Environmental Protection Bureau of Abandoned Mine Reclamation PO Box 8476 Harrisburg, PA 17105	$26,857	10/2009	N/A
L.R. Kimball provided site drilling at a historic mining site in order to located an old mine drainage tunnel. The tunnel had been covered by subsequent housing construction and water from the tunnel was damaging the foundation of an existing house. Unfortunately, the exact location of the tunnel was unknown, and the drilling site was extremely difficult to access due to steep terrain and close houses. However, the L.R. Kimball Team was able to locate the abandoned tunnel with a specialized drilling righ, and provided video evidence of the tunnel condition and location so that a long-term plan could be developed for resolution of the problem.				
Pittston/Mill Street Mine Subsidence Evaluation Project Pittston, Luzerne County, PA	Pennsylvania Department of Environmental Protection, Bureau of Abandoned Mine Reclamation PO Box 8476 Harrisburg, PA 17105	$213,403	3/2010	N/A
L.R. Kimball and our subconsultant, the ARM Group, performed a detailed, non-intrusive investigation to evaluate the potential for 16subsidence in an area of Pittston, Luzerne County, PA. The project involved collecting tax map information for the area, obtaining agreements with landowners to enter the property, field survey to establish benchmarks, evaluation of the existing boring information to attempt to locate the coal seams and deep mines, geophysical investigations of the areas not covered by the borings, and development of a summary report with recommendations for remediation of the potential subsidence areas.				
Exploratory Drilling Subsurface Investigation of Mine Subsidence in the Hill District Pittsburgh, PA	Pennsylvania Department of Environmental Protection Bureau of Abandoned Mine Reclamation PO Box 8476 Harrisburg, PA 17105	Approximately $25,000	2007	N/A
The Bureau of Abandoned Mine Reclamation drained a mine pool in excess of 50 million gallons from a location adjacent to the John Wesley A.M.E Zion Church. This action eliminated a serious hazard for the local residents. The mine was flooded such that approximately 12 feet of water was pooled in the hillside behind A.M.E Zion Church. L.R. Kimball assisted the PADEP by providing exploratory drilling services on this project. The mine pool was delineated through drilling, and then systematically drained away. A permanent drainpipe was installed on the mine floor in order to prevent the water from building up again. In addition, L.R. Kimball provided exploratory drilling at the Herron Avenue AMD site in the Hill District in 2007. Seven holes were drilled to determine the amount of mine drainage trapped in the hillside behind 816 and 824 Herron Avenue in order to determine whether or not a permanent drain could be safely installed. The mine drainage was saturating the toe of the slope and causing the potential for a dangerous slide. In addition, the uncontrolled drainage was flooding basements and property in the area. Immediately following drilling activities, an in-house bituminous district (BD) construction crew project to remedy the saturated slope was commenced.				
319 Watershed Implementation Plan for the South Sandy Creek Watershed Venango County, PA	Venango Conservation District 1793 Cherrytree Road Franklin, PA 16323 Lance Bowes, Coordinator 814-676-2832	$34,000	6/2008	N/A
L.R. Kimball developed a comprehensive database of water quality test results, a general water quality assessment of the existing watershed, and a detailed plan for the remediation of NPS/AMD issues and ultimate restoration of the general water quality, of the South Sandy Creek Watershed, located in Venango County, PA. The objectives of this study were to identify non-point sources of pollution (primarily abandoned mine discharge (AMD) sources) within the South Sandy Creek Watershed, obtain existing available analytical/physical data associated with those discharges, develop a database and GIS for this data, and evaluate the impacts with regard to water quality.				

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

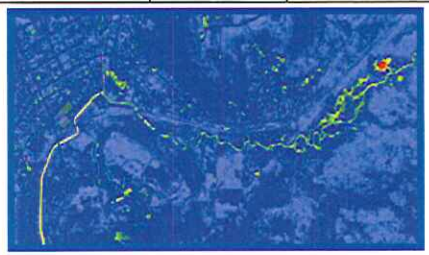
Based on this evaluation, the identified NPS/AMD sources were prioritized, and an evaluation of the monitoring data, potential treatment or abatement alternatives was prepared for each discharge. Conceptual treatment and/or abatement designs were developed for each of the sites, with an estimation of the associated cost. Finally, the Assessment included a recommendation as to the most appropriate treatment/abatement action at each of the identified sites. The key to this project was compliance with the 8 Elements of the Watershed Implementation Plan, as defined by the EPA.

The draft version of the Plan was reviewed by the Venango Conservation District and the South Sandy Creek watershed Association, and a final version, incorporating comments obtained following these reviews, was submitted to the PADEP 319 group for final review and comment, prior to implementation as an EPA 319 Assessment. That effort was completed in June of 2009, and the Plan has since been implemented. The first of the remediation efforts has been initiated, with L.R. Kimball providing the geotechnical drilling for the investigation.

Sugar Camp Run AMD Remediation, Sykesville Site **Jefferson County, PA**	Jefferson County Conservation District 1514 Route 28 Brookville, PA 15825	$73,324	02/2007	N/A

The Jefferson County Conservation District (JCCD) received a PA Growing Greened Grant in the amount of $82,555 for the development of conceptual design and site assessments for the remediation of an acid mine discharge (AMD) site on Sugar Camp Run, near Sykesville, PA. Assessment included thermal imagery flyover and interpretation, and the preparation of recommendations for the treatment of the Sugar Camp Run AMD discharge.

The JCCD and the PADEP subsequently expanded the scope of work to include investigation of the treated AMD for use as a Municipal Water Supply.



Upper and Little Schuylkill River Comprehensive Watershed Assessments **Schuylkill County, PA**	Schuylkill County Conservation District 1206 AG Center Drive Pottsville, PA 17901 Mr. Craig Morgan 570-622-4124	$38,000	2006	N/A

L.R. Kimball personnel completed the development of a watershed assessment utilizing a GIS database for the Upper Schuylkill River Watershed for the Schuylkill County Conservation District/Schuylkill Riverkeeper. This project began in December 1999, and included the development of a database of non-point source pollution locations throughout the watershed extending from the river's source near Tuscarora to the confluence of the Schuylkill and the West Branch in Schuylkill Haven. The Watershed Action Strategy included identification and assessment of non-point source (NPS) impacts in the region, a prioritization of AMD sites, and general recommendations for future remediation and mitigation strategies. Existing data were input to the system and geo-referenced to readily available commercial base mapping products creating a powerful system for viewing, querying, and tracking the status of all identified AMD sites within the study area. The system provides tabular data, custom reports and visual representations of site locations, geology, hydrogeology, land use/cover, property ownership, water quality and extent of AMD impacts. Custom interfaces and queries were built into the system to facilitate the prioritization of sites based on location, extent and magnitude of impacts or other selected criteria. The Watershed Action Strategy served as the foundation for subsequent selection and implementation of remediation strategies at prioritized sites and provided overall guidance and direction for the management of the tributary system.

WINNER
SPONSORED BY
PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
2001 GOVERNOR'S AWARD FOR WATERSHED STEWARDSHIP

This project was awarded the 2001 Governor's Award for Watershed Stewardship.

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

In October 2000, L.R. Kimball personnel began a similar project for the Little Schuylkill River Watershed, also for the Schuylkill County Conservation District/Schuylkill Riverkeeper. This project included the development of a database of non-point source pollution locations throughout the watershed extending from north of Tamaqua to the confluence of the Schuylkill River and the mainstream of the Schuylkill River near Port Clinton. The Watershed Action Strategy included the identification and assessment of non-point source (NPS) impacts in the region, a prioritization of abandoned mine seeps, agricultural runoff, industrial discharges, and a list of general recommendations for future remediation and mitigation strategies. The principal difference between the reports completed for the Upper and the Little Schuylkill Watersheds was that water quality issues for the former project were primarily a result of abandoned mine land runoff, whereas those for the latter were primarily agricultural and industrial runoff issues.

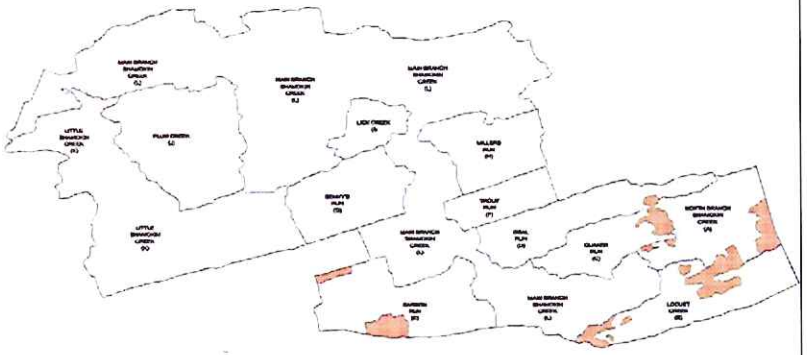
The Little Schuylkill Watershed project was awarded the 2002 Governor's Award for Watershed Stewardship.

The Watershed Action Strategy served as the foundation for subsequent selection and implementation of remediation strategies at prioritized sites and provided overall guidance and direction for the management of the tributary system.

Shamokin Creek Watershed Quality Assessment **Northumberland County, PA**	Northumberland County Planning Commission 399 S. 5th St., Ste. 207 Sunbury, PA 17801	$40,000	2005	N/A

Shamokin Creek Watershed Quality Assessment Description:

L.R. Kimball prepared an assessment of water quality issues associated with the Shamokin Creek Watershed in Northumberland County, PA. The assessment will result in the development of a Watershed Restoration Action Strategy guiding future remediation work by the Shamokin Creek Restoration Alliance and Northumberland County Conservation District.



The assessment was completed by compiling existing water quality information related to non-point source (NPS) and point source pollution within the watershed. The data is managed through the development of a watershed specific electronic data management system comprised of a relational database and Geographic Information System (GIS).

The 140 square mile drainage area was subdivided into 13 subwatersheds (12 within Northumberland County and 1 in Columbia County). Available existing data was input to the system and geo-referenced to readily available commercial base mapping products, creating a powerful system for viewing, querying, and tracking the status of all identified AMD sites within the study area.

The system provides tabular data, custom reports and visual representations of site locations, geology, hydrogeology, land use/cover, property ownership, water quality and extent of AMD impacts. Custom interfaces and queries were built into the system to facilitate the prioritization of sites based on location, extent and magnitude of impacts or other selected criteria.

Laurel Run Site #2 AMD Remediation **Indiana County, PA**	Blacklick Creek Watershed Association 52 Oakland Avenue Homer City, PA 15748 Dr. Robert Eppley 724-479-0672	$46,200	2005	N/A

L.R. Kimball prepared a site remediation plan for the Laurel Run #2 abandoned mine land site in Indiana County, PA. The project included aerial photography and mapping of the site limits, geotechnical investigations of the existing spoil material, installation of several borehole/monitoring wells above the highwall, design of the acid mine drainage (AMD) remediation technique, and preparation of a construction bid package, as well as periodic site observation during and after construction.

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

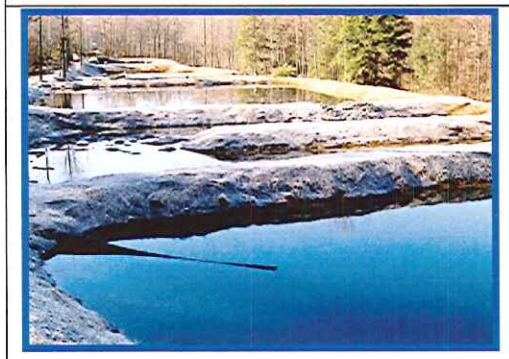
The site was extremely complex in that it resulted from a face-up type strip mine, and two subsequent deep mine entries. The smaller of the two mines began near the highwall and extended for a short distance to the west. There is little information regarding this entry, and it may have been a "house mine". The larger mine was quite extensive, and the Laurel Run #2 location represented the low spot in the mine, so there was a considerable flow from the entry. The area immediately below the highwall had an extensive pool of accumulated iron sludge, and this had created a substantial fringe wetland along the perimeter. Portions of this wetland were considered 'mining impacted" but other sections were not.

As such, the reclamation design required two mine seals (one "dry" and one "wet"), backfilling of a dangerous highwall, collection of the AMD from the wet seal, and development of a passive treatment facility for the collected AMD. All of this had to be created without negative consequences to the non-mining impacted wetlands.

With cooperation from a local ash hauling contractor, the highwall and sludge pool backfill was completed using ash material from a nearby fluidized bed power plant. This permitted creation of a stable backfill using material designated as a beneficial use product.

The passive treatment system was created using two parallel, state-of-the-art sulfate-reducing bacteria vertical flow reactors (SRB Systems), which drain to a settling basin, and then into a serpentine polishing wetland prior to discharge into the stream. The system is working extremely well with substantial excess alkalinity and low iron and aluminum concentrations at the effluent.

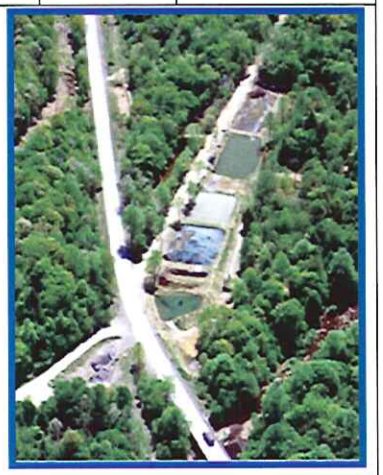
Yellow Creek Watershed AMD Treatment Systems Phased Restoration Plan Indiana County, PA	Blacklick Creek Watershed Association 52 Oakland Avenue, Indiana, PA Dr. Robert Eppley 724-479-0672	$135,000	2006	N/A



Phase IA and IB AMD Remediation

L.R. Kimball is assisting the Blacklick Creek Watershed Association (BCWA) in implementing a five-stage restoration plan for the Yellow Creek Watershed. The primary goal is to improve water quality to a level that can sustain breeding fish populations to enhance the adjacent riparian habitats, which meshes with the goals set by the Water Resources Advisory Committee of the Southwestern Pennsylvania Commission.

The Yellow Creek Watershed is a sub-watershed of the Blacklick Creek Watershed, which encompasses an area of approximately 420 square miles in Indiana and Cambria Counties. The Yellow Creek Watershed covers an area of approximately 52 square miles. The upper portion is of exceptional value and classified as a cold water fishery. The fishery resources of the Lower Yellow Creek Watershed are impacted by non-point sources of acid mine drainage (AMD) and siltation, especially the section of Yellow Creek below the Route 954 bridge which is not included in the Pennsylvania Fish and Boat Commission trout-stocking program because of AMD.



This Phase I restoration plan was completed by L.R. Kimball in 2000. This phase consisted of two treatment "modules" consisting of settling ponds, anaerobic wetlands, vertical flow reactor (VFR) drain systems, and a clean water "polishing wetland." A unique aspect of these projects was that they incorporated approximately 2.3 acres of mitigation wetlands ("polishing wetlands") as a final treatment prior to discharge to Yellow Creek.
This project was a true public/private/volunteer partnership supported by the Pennsylvania Game Commission, Natural Resources Conservation Service, PADEP, Indiana County Conservation District, Indiana University of Pennsylvania, Pennsylvania Boat and Fish Commission, and the Heinz Endowment.

Funding for Phases IA and IB was from a combination of EPA Act 319, PA Growing Greener and the Heinz Endowment, along with numerous hours of voluntary time by Watershed members and others.

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

Phase IIA AMD Remediation

The Phase II subwatershed represents the second portion of the five-phase restoration area, and includes multiple coal refuse disposal areas, numerous AMD mine discharges and extensive highly-eroded areas resulting from the AMD flows. Following completion of the Phase I portion of the site (with construction of the IA and IB passive treatment modules), the BCWA and L.R. Kimball were awarded additional funding for the development of the Phase IIA area, located immediately downstream of the current sites. The Phase IIA portion incorporates a modular system for AMD treatment and construction was completed in 2001.

The Phase IIA system is capable of treating up to 150 gallons of acidic mine discharge per minute. Funding for the majority of this work was supplied by PA Growing Greener and Act 319 funds.

Since a considerable volume of fill was required for the Phase IA and IB modules, the Phase IIA passive treatment system was designed to be constructed using the excavation required for the IA/IB soil borrow. L.R. Kimball prepared mapping for this facility as well as site environmental investigation, design, construction oversight and post-construction monitoring.

Following completion of the construction, a series of additional modifications were made, including the implementation of an experimental treatment pond (site IIB, by another consultant) which discharges into the Phase IIA final pond. These changes have rendered the outlet pond inadequate for settlement of the suspended solids treated by the systems, and a modification of the final pond was implemented in 2004 to incorporate a larger, U-shaped settling pond. These modifications have resulted in substantial improvements in the treatment system effluent.

Phase IIC AMD Remediation

The Phase IIC project included the geotechnical site investigation, development of mapping and site design for AMD Remediation, and is located roughly ½ mile downstream from the previously completed Phase IIA project. This site included collection of AMD from a deep mine discharge, and treatment in a state-of-the-art system utilizing sulfate reducing bacteria (SRB) and an aerobic wetland. This work was funded by a combined grant from PA Growing Greener and Act 319.

Prior to the start of the Phase IIC work, the local AMD discharge location had been known as "the borehole", since flow exited from a vertical hole adjacent to the stream. Before beginning the construction, L.R. Kimball staff and BCWA members attempted to insert a pipe into "the borehole" to estimate the static head available. However, in the process, it was discovered that the vertical hole was actually the end of a horizontal pipeline buried roughly 3' below grade. Tracing the pipeline upslope, we found a roughly 150' long terra cotta pipeline leading to a previously unknown deep mine portal, apparently constructed to drain the mine workings. This discovery forced a complete modification in the construction concept, but was fortunately identified early in the design process.

In 2006, the Phase IIC system was modified to incorporate AMD flows from the adjacent Judy 14 Tributary, which are routed through a holding pond, and then into the SRB treatment system. During this construction modification, the final pond was expanded to permit increased settling of suspended solids, and the system is again working very well.

Blacklick Creek Watershed Comprehensive Watershed Assessments **Indiana and Cambria County, PA**	Blacklick Creek Watershed Association 52 Oakland Avenue Indiana, PA Dr. Robert Eppley 724-479-0672	$54,660	2005	N/A

L.R. Kimball completed a watershed assessment using a GIS database for non-point source (NPS) pollution locations throughout the watershed. The watershed extends over 420 square miles, throughout both Cambria and Indiana Counties, with over 270 miles of streams. The watershed has been heavily mined over the past 150 years, and more than 1000 Acid Mine Drainage sources were located throughout the study area. The Watershed Action Strategy included identification and assessment of non-point source (NPS) impacts in the region, a prioritization of AMD sites, and general recommendations for future remediation and mitigation strategies.

The Watershed Action Strategy served as the foundation for subsequent selection and implementation of remediation strategies at prioritized sites and provided overall guidance and direction for the management of the tributary system. The system also incorporates data from 11 current passive treatment systems, spread across the many subwatersheds in the Blacklick System.

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

TrAILco Subsurface Investigations at Prexy and 502 Junction Substations, Greene and Washington Counties, PA and Frederick County, VA	Kenny Construction PO Box 3050 320 South Adams Street, Suite 201 Fairmont, WV 26555	$457,758	11/2008	N/A

TrAILco Subsurface Investigations Description:

L.R. Kimball was retained by Kenny Construction in the summer of 2007 to perform subsurface investigations at the proposed Prexy and 502 Junction Substations in Greene and Washington Counties, PA for 500 kV Trans-Allegheny Interstate Line (TrAILco). A subsurface investigation for the expansion of the existing Meadow Brook Substation near Stephens City, Frederick County, Virginia was subsequently added to the Project Scope of Work.

The site subsurface investigations for these projects included:

- Boring Location Surveys
- Drilling, Standard Penetration Testing (SPT), and rock coring
- Drilling Oversight, Logging, and Rock Mass Rating (RMR) Analysis
- Infiltration Testing for Storm Water Management
- Geotechnical Laboratory Testing
  - Visual Classifications
  - Moisture Content
  - Gradations
  - Hydrometer
  - Atterberg Limits
  - Unconfined Compressive Strength Test of Rock Core
  - Unconfined Compressive Strength Test of Soil
  - Moisture-Density Relationship (Proctor)
  - Corrosivity Tests (pH, Chlorides, and Sulfates)
  - Large Diameter (6-inch) CU Triaxial Compression Test
  - Acid Base Accounting (ABA) Testing for Acid Runoff Potential
  - Forms of Sulfur testing for Expansive Properties Potential
- Geotechnical Engineering Reports
  - Foundation Type, Size, and Location Recommendations
  - Slope Stability Analysis
  - Deep Foundation Lateral Load Analysis

5000-600 Conveyors Waterline Permitting and Design Needham, MA	Longview Power, LLC (GenPower Holding) 1040 Great Plain Ave. Needham, MA	$1,922,232	2008	N/A

L.R. Kimball was hired by Longview Power, LLC to assist with permitting and design of a 7.5 mile waterline and an overland coal conveyor which are ancillary support functions to the 600-megawatt, coal-fired, Longview Power Plant being constructed in West Virginia. The waterline and overland coal conveyor belt both originate in Pennsylvania and terminate at different locations in West Virginia. Some permitting was considered mining operations while others were civil site development. L.R. Kimball also designed the service road associated with the overland coal conveyor.

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD				
Humphrey Mine Water Allocation & NPDES Permit Modification **Dunkard Township, PA**	GenPower Services, LLC 85 Wells Ave., Suite 300 Newton, MA 02459	$50,000	12/2007	N/A
L.R. Kimball conducted a feasibility study of Dunkard Creek as an alternate water source for cooling to the Morgantown, West Virginia, Longview Generation Plant. Based on the feasibility study, stream water allocation was established. The previously designed R.O. Treatment Plant and discharge were relocated to property adjacent to Dunkard Creek. PADEP registration and permitting was completed.				
Longview #2 Power Plant **Monongahela River Feasibility Study** **PA**	GenPower Services, LLC 85 Wells Ave., Suite 300 Newton, MA 02459	$43,000	12/2007	N/A
L.R. Kimball provided engineering services to perform a feasibility study for a raw water intake on the Monongahela River for the potential Longview #2 power plant to be located in PA.				
Humphrey Mine Permit Application Prep for NPDES Permit **PA**	GenPower Services, LLC 85 Wells Ave., Suite 300 Newton, MA 02459	$34,466	2005	N/A
L.R. Kimball was hired to assist GenPower in obtaining an NPDES permit for the Acid Mine Drainage Treatment System for the Humphrey Mine. This was a unique project in so much that the treatment plant is located in West Virginia and the raw water source and discharge point are located in Pennsylvania. MEPCO, a mining company, was handling the West Virginia permitting. L.R. Kimball was hired to assist with the Pennsylvania permitting. The project was extremely fast paced. The permit application was due for submittal within one week on the authorization to proceed. L.R. Kimball advised the client that the permit application would have to be considered administratively incomplete by the PADEP, because the necessary background sampling, analytical results and required public notifications could not be completed in that short a time frame. L.R. Kimball met with the PADEP to review the application, suggested that amending the existing permit to add an additional discharge location would be more expeditious and to review exactly which mining activity modules would be required. The PADEP agreed to this approach and the permit application was submitted on time.				
Longview Power Plant **Engineering Services** **Maidsville, Monongalia County, WV**	GenPower Services, LLC 85 Wells Ave., Suite 300 Newton, MA 02459	$81,779	2007	N/A
L.R. Kimball provided miscellaneous engineering services to support the GenPower Services, LLC Longview Power Plant project. Primary support was provided for permitting of the electric transmission lines, the power substation, and the financial closing.				

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
N/A					

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

20. The foregoing is a statement of facts.

Signature: Steven T. McConnell Title: Operations Manager Date: 11/15/11

Printed Name: Tom McConnell

RFQ No. DEP15603

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:
"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, Limited Liability Company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: CDI-Infrastructure, LLC dba L.R. Kimball

Authorized Signature: R Jeffs / 2nd Date: 11/11/11

State of Pennsylvania

County of Cambria, to-wit:

Taken, subscribed, and sworn to before me this 11th day of November 20 11

My Commission expires March 7, 20 12

AFFIX SEAL HERE

NOTORY PUBLIC Helen Ann Ivory

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Helen Ann Ivory, Notary Public
Ebensburg Boro, Cambria County
My Commission Expires March 7, 2012
Member, Pennsylvania Association of Notaries

AML and RELATED PROJECT EXPERICENCE MATRIX																												
PROJECT	Exp. Basis C=Corp. P=Personal *	Additional Info Provided in Section(s) **	PROJECT EXPERIENCE REQUIREMENTS																PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional									
			Abandoned Surface Mine Restoration	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/ Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/ Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/ Stability	McConnell	Minnear	Sciulli	Mock	Marhefka	Gordon	Letzo	Stenger	Cannoni	Kopchik
PADEP-Mt.Carmel	C, P	15		C,P		C,P			C,P								C,P	M	M,P	P				M			
South Sandy Creek Watershed	C,P	15	C,P			C,P			C,P		C,P	C,P	C,P	C,P		C,P	C,P	M	M,P	P				M		P	
PADEP-Freeland South Mine Subsidence	C, P	15	C,P	C,P	C,P		C,P		C,P				C,P				C,P	M	M,P								
HRI-Lancashire No. 15 AMD Plant	C, P	15	C,P								C,P		C,P	C,P	C,P		C,P	M	M					M,P			
Allegheny Energy-On-Call Drilling	C, P	15									C,P		C,P				C,P	M						M,P			
Rivesville-Water System Improvement	C, P	15				C,P					C,P	C,P	C,P	C,P							P						
PADEP-Blanket Mapping and Surveying	C, P	15	C,P			C,P		C,P	C,P	C,P		C,P		C,P	C,P	C,P	C,P										M,P
PADEP-Palo Alto, Reclamation of AML	C, P	17		C,P	C,P	C,P							C,P				C,P	M	M,P			P					
PADEP-Pittston/Mill St. Mine Subsidence	C, P	17	C,P	C,P					C,P				C,P				C,P	M	M,P								
PADEP-Hill Dist. Exploratory Drilling	C, P	17		C,P		C,P			C,P			C,P	C,P				C,P							M			
VCD-South Sandy Creek Watershed	C, P	17	C,P	C,P	C,P	C,P	C,P			C,P	C,P	C,P		C,P	C,P	C,P			M	P					P	P	
JCCD-Sugar Camp Run AMD Remed.	C, P	17	C,P	C,P	C,P	C,P					C,P	C,P		C,P	C,P	C,P			M			P				P	
SCCD-Schuylkill Watershed Assessment	C, P	17	C,P	C,P	C,P	C,P	C,P			C,P	C,P	C,P		C,P	C,P	C,P			M	P						P	
NCPC-Shamokin Watershed Assessment	C, P	17	C,P	C,P	C,P	C,P	C,P			C,P	C,P	C,P		C,P	C,P	C,P			M	P						P	
BCWA-Laurel Run #2 AMD Remediation	C, P	17	C,P	C,P	C,P	C,P	C,P			C,P	C,P	C,P	C,P	C,P	C,P	C,P	C,P	M	M	P							

* List whether project experience is corporate or personnel based or both.

** Use this area to provide specific sections or pages needed for reference.

*** List Primary Design personnel and their functional capacity for the projects listed.

AML and RELATED PROJECT EXPERICENCE MATRIX																												
PROJECT	Exp. Basis C=Corp. P=Personal *	Additional Info Provided in Section(s) **	PROJECT EXPERIENCE REQUIREMENTS															PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional										
			Abandoned Surface Mine Restoration	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/ Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/ Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/ Stability	McConnell	Minnear	Sciulli	Mock	Marhefka	Gordon	Letzo	Stenger	Cannoni	Kopchik
BCWA-Yellow Creek Watershed AMD	C, P	17	C,P	C,P	C,P	C,P	C,P	C,P		C,P	C,P	C,P	C,P	C,P	C,P	C,P	C,P		M	P								
BCWA-Blacklick Watershed Assessments	C, P	17	C,P	C,P	C,P	C,P	C,P			C,P	C,P	C,P		C,P	C,P	C,P			M									
Kenny-TRAILco Subsurface Investigations	C, P	17				C,P				C,P	C,P		C,P		C,P		C,P	M						M,P			
Longview-Waterline Permitting/Design	C, P	17				C,P					C,P	C,P	C,P	C,P			C,P									P		
GenPower-Humphrey Mine Water Alloc.	C, P	17		C,P		C,P			C,P		C,P	C,P	C,P	C,P			C,P											
GenPower-Longview Feasibility Study	C, P	17				C,P			C,P		C,P	C,P		C,P			C,P											
GenPower-Humphrey Mine Permit Prep	C, P	17		C,P	C,P	C,P			C,P		C,P	C,P		C,P			C,P		M,P									
GenPower-Longview Engineering Services	C, P	17		C,P	C,P	C,P					C,P	C,P		C,P		C,P	C,P											

* List whether project experience is corporate or personnel based or both.

** Use this area to provide specific sections or pages needed for reference.

*** List Primary Design personnel and their functional capacity for the projects listed.

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L.R.Kimball®
TARGETED RESULTS. EXPERTLY MANAGED.
WE STAKE OUR REPUTATION ON IT.
A CDI Company

ARCHITECTURE · ENGINEERING · COMMUNICATIONS TECHNOLOGY
AVIATION | CIVIL | CONSTRUCTION SERVICES | DATA SYSTEMS | ENVIRONMENTAL
FACILITIES ENGINEERING | GEOSPATIAL | NETWORKS | PUBLIC SAFETY | TRANSPORTATION

FIRM OVERVIEW

Since 1953, L.R. Kimball's bedrock reputation and steadfast principles have supported government, institutional and corporate projects that serve as infrastructures for our nation's growth. The company began with the entrepreneurial vision of a young veteran, decorated in World War II and Korea. After military service, L. Robert Kimball resumed his college studies and earned a degree in civil engineering from The Pennsylvania State University. He then returned to his hometown of Ebensburg, PA, to start his own civil engineering and surveying company.

Over a period spanning almost six decades, that upstart company grew to a full-service firm with ten offices that have served over 1,500 clients. R. Jeffrey Kimball, PE, ultimately was named president and CEO; he continues to build on his father's original vision, focusing on growing services, staff and geography, while remaining committed to a reputation for continuously delivering the highest level of client service.

Our clients benefit from a pool of more than 500 professionals and effective quality control that result in timely, cost-efficient projects. With more than 60 integrated services, L.R. Kimball has the ability to fulfill nearly every aspect of most projects. The strength and diversity of our expertise enables us to look at every project holistically, ensuring that each aspect of the project's design and engineering integrates perfectly with the others, as well as with the neighboring environment and facilities.

Today L.R. Kimball works with local, regional, state and federal government agencies, as well as school districts, universities, private businesses and industry. Our expertise in architecture, engineering and communications technology runs deep in such areas as:

- Aviation
- Civil engineering
- Construction services
- Data systems
- Environmental services
- Facilities engineering
- Geospatial services
- Networks
- Public safety
- Transportation

L.R. Kimball has been recognized as one of the Best Places to Work in Pennsylvania multiple times. We have a long-term view of talent that is unique in our profession, attracting top talent and nurturing it to remain an admired industry leader.

"L.R. Kimball is built on a strong foundation of family values. Those values are what guide the organization, what make us successful, and why clients hire us."

L. Robert Kimball
Founder

Recently, L.R. Kimball was acquired by CDI Corporation and formed CDI-Infrastructure, LLC dba L.R. Kimball. This is a positive change for our firm and it will make us an even stronger company. Further, it will enable us to provide an even broader range of services to our clients. Because we were acquired as an intact vertical unit within CDI Engineering Solutions, all of the core competencies and key professional staff remain intact. This means that you will receive the high quality and level of service from L.R. Kimball that our clients have come to expect.

About CDI Corporation

CDI Corporation (NYSE: CDI) is a professional services company that offers clients a single source for engineering, information technology, and professional staffing solutions. With more than 50 years of experience and revenues approaching $1 billion, CDI helps clients create engineering and IT solutions and find the talent that their business needs to grow.

CDI is made up of four business units: CDI Engineering Solutions, a provider of engineering design and outsourcing services to Fortune 1000 firms in the aerospace, government services, infrastructure, life sciences and process and industrial sectors; CDI IT Solutions, a provider of information technology consulting, outsourcing and staffing; AndersElite Limited, a professional staffing and services firm focusing on the construction and engineering markets in the United Kingdom and Australia; and MRINetwork, one of the world's largest executive search and recruitment organizations with over 850 franchise offices in over 35 countries.

About CDI Engineering Solutions

CDI Engineering Solutions enjoys long-term alliances with its customers and provides a cost-effective, single-source of engineering services and professional staffing. As a strategic partner, CDI Engineering Solutions develops an understanding of its customers' engineering, project, and overall business needs.

With offices throughout North America and joint ventures in Kuwait and Mexico, CDI Engineering Solutions provides engineering outsourcing, project management and professional services to Global 100 clients in the aerospace, government services, infrastructure (L.R. Kimball), life sciences and process & industrial markets. From the design of commercial aircraft platforms to the complete design and project management of an alternative energy plant, CDI Engineering Solutions leverages its speed, skill and scale to achieve higher client return on investment.

L.R. Kimball's Primary Services

Civil and Environmental Engineering

L.R. Kimball has been building an outstanding reputation in civil and environmental consulting services since the 1950's. Our wide spectrum of clients includes utilities, industries, institutions, commercial facilities, private developers, and military and governmental agencies. Beginning with the client, our project team conducts assessments and planning, siting, testing, permitting, design, and construction monitoring with the goal of creating innovative solutions to complex issues.

Our clients can expect full civil and environmental support for their projects. Our services also include full engineering support for facility and site designs, site assessments, hazardous materials management, geotechnical investigations and analysis, employee health and safety management, and environmental permitting. These projects run the gamut of multimillion-dollar commercial, resort, and hotel developments; industrial park and office complex developments; subdivisions; water and wastewater facilities; military facilities; solid waste disposal operations; industrial facilities; electric power generation and transmission; and manufacturing facilities. We also assist our clients with planning, financing options, grant assistance, cost of service studies, construction monitoring, and operations consulting.

We offer full-service mapping sciences, including: surveying, analytical aerotriangulation, planimetric and topographic mapping, digital orthophoto production, environmental mapping and GIS. Our self-contained mapping operation is supported by an array of technical personnel. Throughout the years, L.R. Kimball has evolved to meet the ever-changing needs of our clients, from traditional land surveys to the most advanced digital mapping, remote sensing and GIS applications. With over 50 mapping experts, we have the capacity, expertise and equipment resources to undertake projects of varying sizes and technical complexity.

Communications Technology

As a full-service technology engineering and consulting firm, we provide our clients with expertise in virtually every aspect of communication system planning, implementation, and operation. L.R. Kimball carefully researches our clients' needs and determines the best solution that addresses long-term requirements in a cost-effective manner. The services we provide are related to telephony data and video system planning and development. They include automated systems, wireless communications engineering, public safety and 9-1-1 consulting, inside plant, and LAN/WAN planning and design.

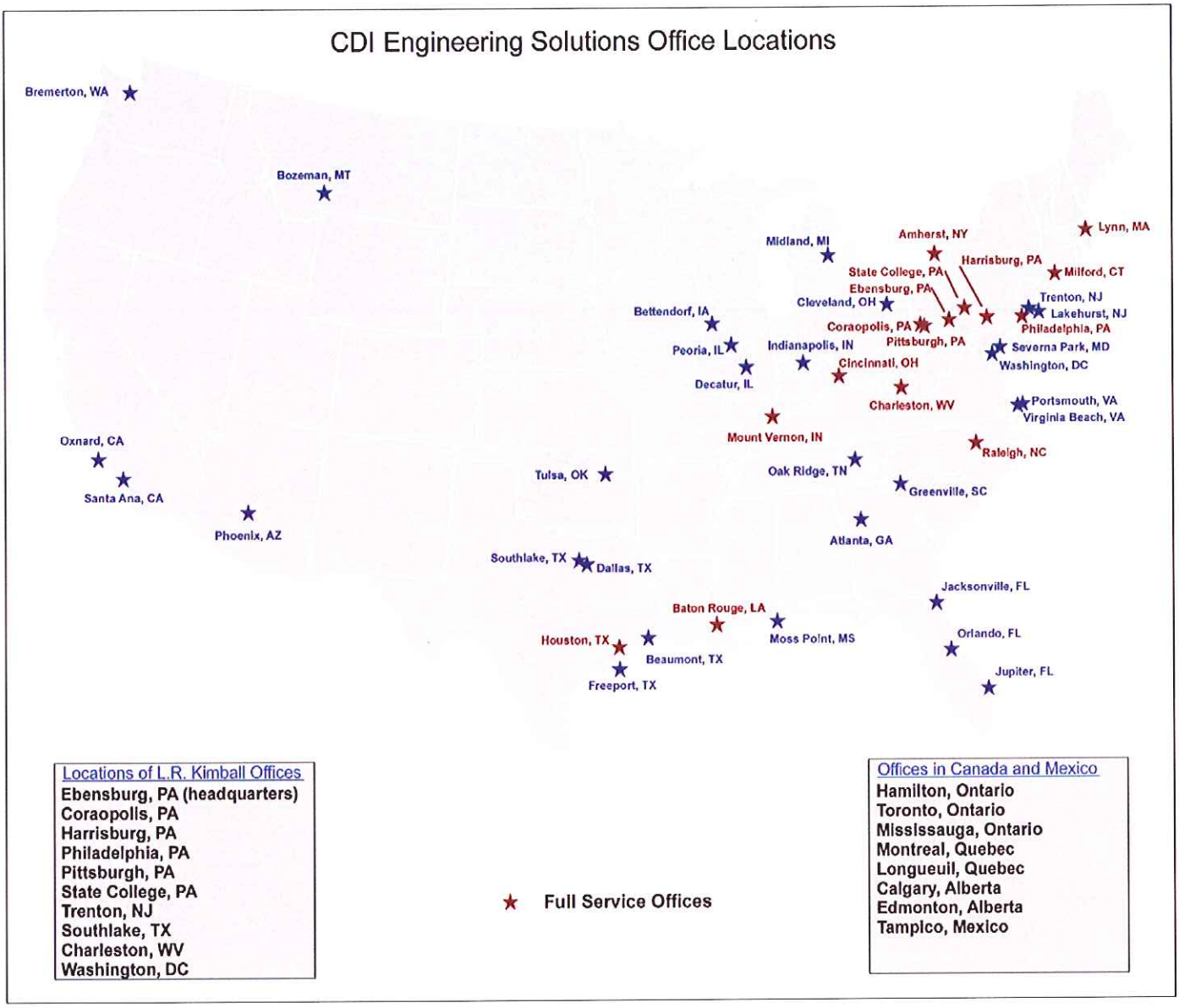
Transportation

L.R. Kimball's reputation in transportation engineering is unsurpassed. Our transportation staff is comprised of highly trained professionals. We provide clients with a full range of services, including planning, feasibility, environmental design, and construction management. Our expertise ranges from project types including airports, highways, bridges, environmental, and traffic services; to full engineering support for land development projects.

Architecture

L.R. Kimball has received special recognition, awards, and accolades from leading organizations and publications for our design capabilities. This recognition underscores the fact that L.R. Kimball tempers its designs to be functional and with an eye to future needs and expansions. Cost-effective solutions are designed not only with aesthetics in mind, but also to meet the specific environmental needs of the people who work, learn, or live within the creation. The architectural services provided by our firm include innovative design for new buildings, as well as remodeling and adaptive re-use of existing buildings. Traditional architectural services are provided for design, preparation of contract documents, bid and negotiation, construction administration phases, programming, feasibility studies, master plan studies, and code compliance studies.

OFFICE LOCATIONS



L.R. Kimball is headquartered in Ebensburg, Pennsylvania, and maintains a network of 9 regional offices located throughout the eastern United States. We are strategically located to provide immediate response to projects while maintaining high quality, cost-effectiveness, and timeliness.

We can provide our clients with rapid response services. Our knowledge of federal, state, and local policies ensures that our deliverables are in compliance with applicable regulations. We also enhance our knowledge of state and local regulations by utilizing our extensive network of local contractors, where appropriate. Not only does this supplement our existing knowledge of state and local regulations, it also provides additional cost savings to our clients. Local contractors are also utilized, when appropriate, to meet strict agency guidelines.

L.R. Kimball Office Locations

Corporate Headquarters
615 West Highland Avenue
PO Box 1000
Ebensburg, PA 15931
(814) 472-7700 • Fax: (814) 472-7712

415 Moon Clinton Road
Coraopolis, PA 15108
(412) 262-5400 • Fax: (412) 262-3036

4400 Deer Path Road
Suite 105
Harrisburg, PA 17110
(717) 221-8820 • Fax: (717) 221-8860

Two Commerce Square
2001 Market Street, Suite 810
Philadelphia, PA 19103
(215) 665-0308 • Fax: (215) 665-0121

Frick Building – North Mezzanine
437 Grant Street
Pittsburgh, PA 15219
(412) 201-4900 • A/E Fax: (412) 201-2338
CT Fax: (412) 201-2339

328 Innovation Boulevard, Suite 222
State College, PA 16803
(814) 867-4566 • Fax: (814) 867-4572

411 Riverview Plaza
Trenton, NJ 08611
(609) 989-5260 • Fax: (609) 989-5261

552Silicon Drive, Suite 100
Southlake, TX 76092
(817) 329-2030 • Fax: (817) 329-2031

501 Eagle Mountain Road
Charleston, WV 25311
(304) 746-3500 • Fax: (304) 746-3601

100 M Street, SE, Suite 300
Washington, DC 20003
(202) 488-1501 • Fax: (202) 488-1761

KEY STAFF

L.R. Kimball prides itself as being a firm that communicates and cooperates with the client to meet their needs. We understand the benefit of having a close relationship with our clients in order to meet expectations and provide quality service.

L.R. Kimball has a proven track record for accomplishing work within the required time constraints. This is evidenced by *our high volume of repeat work from states, counties, municipal authorities, Sanitary Boards, and Public Service Districts, as well as from our many private clients.*

L.R. Kimball's capability to meet a wide range of often-conflicting scheduling demands is reflected in the fact that we successfully accomplish thousands of projects annually.

Team Resources

L.R. Kimball maintains a permanent staff of over 550 professional and technical staff who are experienced in virtually every aspect of planning, design, and construction administration. *Our staff have the qualifications, certifications and experience necessary to accomplish the anticipated services within required time constraints.* In addition, L.R. Kimball possesses a full range of geotechnical and environmental equipment, as may be necessary for the various types of projects required for abandoned mine land reclamation work.

We employ a formal project management program, which includes the use of formal work plans, in-house contracts with supporting company elements, and project scheduling software. Your needs will be met by our proposed project team.

Team Personnel and Responsibility

Principal-in-Charge and Quality Assurance/Quality Control

The Principal-in-Charge is primarily responsible for assisting the Project Manager in allocating sufficient resources to meet project requirements and resolving technical problems and conflicts that cannot be resolved at the Project Manager level.

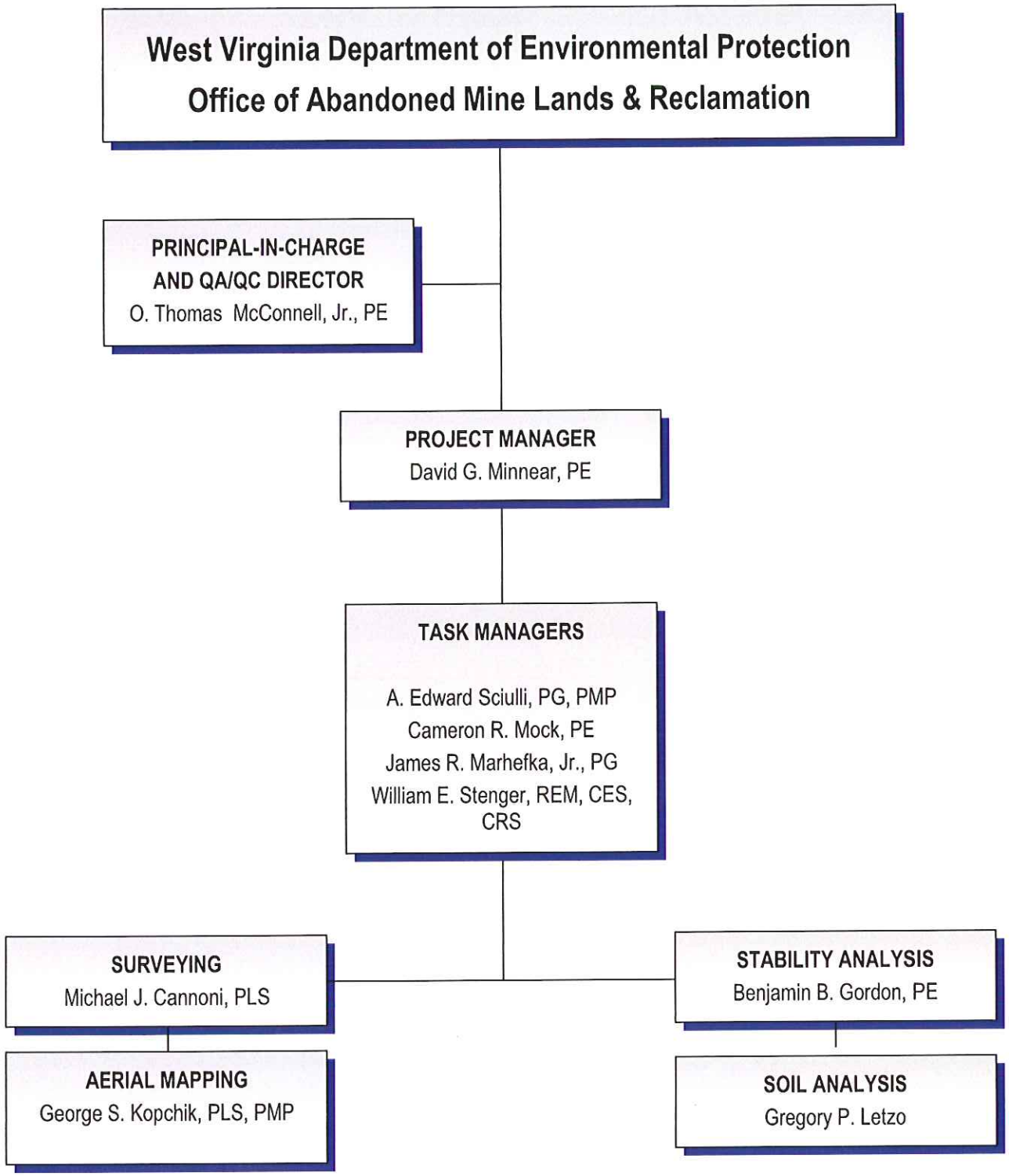
Mr. Thomas McConnell, PE, will serve as our Principal-in-Charge and Quality Assurance/Quality Control for this project. Mr. McConnell has *over 42 years of experience*. He is L.R. Kimball's Senior Geotechnical Engineer experienced in geotechnical engineering, wetlands/environmental impact assessments and remedial investigations associated with site civil work, highway design, soils/foundation engineering projects, solid waste landfill designs, hydrology, hydraulics, permitting/certifications, remedial action analysis and designs, soils laboratory testing, material studies, and remedial action surveillance projects. Mr. McConnell's experience has involved environmental reclamation projects in the mining industry, coal, fly ash stockpile management, acid-mine leachate management, and dam safety inspection.

As a company Vice President, Mr. McConnell has complete authority to schedule or re-schedule the assignment of necessary personnel and resources to ensure that the Project Manager can complete the assigned work.

Project Manager

Mr. David G. Minnear, PE, will serve as Project Manager. Mr. Minnear specializes in abandoned mine land remediation projects, and has *over 30 years of engineering experience* in managing and designing civil and environmental projects, with specific emphasis in water resources and watershed planning. He has managed the development of several watershed-wide water quality assessment projects, involving AML remediation, stream hydrologic/hydraulic modeling and GIS applications.

Mr. Minnear will be responsible for overall quality and will make certain that all documents, procedures, and project activities meet the WVDEP and L.R. Kimball standards. He will assist in the assignment of staffing needs for each work task, allocate resources, oversee contract schedule and cost, coordinate fieldwork and reporting, and identify and resolve potential problems or conflicts.



O. THOMAS MCCONNELL, JR., PE

Project Role
Principal-in-Charge and QA/QC Director

Education
BS, Civil Engineering Technology, University of Pittsburgh at Johnstown, 1979

Registrations
PA, Professional Engineer, 1981
WV, Professional Engineer, 1985
NJ, Professional Engineer, 1985
FL, Professional Engineer, 1990
NC, Professional Engineer, 1994
MD, Professional Engineer, 1995
OH, Professional Engineer, 1996
VA, Professional Engineer, 1996
MA, Professional Engineer, 1996
DE, Professional Engineer, 1996
DC, Professional Engineer, 1996
NJ, Underground Storage Tank Inspector, 2002

Professional Experience

Mr. McConnell serves as Vice President and Operations Manager – Geotechnical Engineering for L.R. Kimball. He is L.R. Kimball's senior experienced Geotechnical Engineer experienced in geotechnical engineering, wetlands/environmental impact assessments and remedial investigations associated with mine reclamation projects, remedial action analysis and designs, site civil work, highway design, soils/foundation engineering projects, solid waste landfill designs, hydrology, hydraulics, permitting/certifications, soils laboratory testing, and material studies.

His engineering and supervisory experience includes the application of innovative, cost effective ground improvement techniques, anchor/tie-back systems, geosynthetic fabrics and geogrids and proprietary retaining wall applications. He is experienced in the application of traditional as well as innovative foundation systems for building structures; retaining walls, landfills caps, interim remedial ground modification techniques, cutoff walls, buried structures, and deep foundation systems.

He has completed numerous soils and foundation investigation reports for abandoned mine sites, landslide repairs, dams, airports, roadways, storage tanks, industrial structures, bridges, coal cleaning plants and coal storage silos. These projects included responsibility for subsurface investigations, field testing, laboratory testing, and geotechnical analysis relative to foundation stability, settlement, and slope stability.

Mr. McConnell is a member of the firm's dam inspection team and, as such, is responsible for on-site inspection, geotechnical assessment, and hydrologic/hydraulic analysis of dams and appurtenant structures, and project review. He is also a member of the Associates of State Dam Safety Officials (ASDSO).

Project Experience

- **PATH Welton Spring Substation, Geotechnical Services, Kenny Construction, Welton Springs, WV.** Principal-in-Charge for geotechnical services for preliminary engineering of a proposed substation in West Virginia. The purpose of this geotechnical exploration was to investigate soil and rock conditions at the site and to evaluate those conditions with respect to the proposed construction. Responsibilities included review of the project's scope of work, final review of project deliverables, and serving as Geotechnical Engineer of Record.
- **PADEP Bureau of Abandoned Mine Land (BAMR), Multiple Site Assessments.** Senior Geotechnical Engineer associated with multiple projects conducted for the PADEP/BAMR under a series of open-ended contracts. Projects conducted for the DEP/BAMR included: abandoned mine void assessments; mine subsidence evaluations; coarse refuse and mine spoil investigations, sampling and laboratory testing.
- **Federal Aviation Administration, Yeager Airport Landslide Investigation, Charleston, WV.** Senior Geotechnical Engineer for the investigation and design of remedial actions for a series of landslides that developed near the Yeager Airport taxiways.
- **Federal Aviation Administration, Tri-State Airport Landslide Investigation, Huntington, WV.** Senior Geotechnical Engineer for the investigation and design of remedial actions for a series of landslides that developed near the Tri-State Airport taxiways.

- **Wal-Mart, Inc., Kilbuck Township Landslide Stabilization, Allegheny County, PA.** Principal Geotechnical Engineer and Geotechnical Engineer. On-site days after the slide to represent Wal-Mart and to perform on-site observations and document slide movement and clean-up. On-going geotechnical services (since September 2007) responsible for on-site inspections, drilling and sampling, instrumentation installation and analysis, testing, and design review.
- **PATH Allegheny Due Diligence Work - Proposed Kemptown Substation, Kenny Construction, MD.** Principal-in-Charge for geotechnical services for preliminary engineering of a proposed substation in Maryland. Responsibilities included review of the project's scope of work and review of the report presenting the findings of the subsurface investigation.
- **TrAIL Project Soil Boring Study and Core Samples, Kenny Construction, Washington County, PA.** Principal-in-Charge for the geotechnical site investigations for 2 new substations: 502 Junction Substation located in Dunkard Township, Green County, PA and Prexy substation located in North Strabane Township, Washington County, PA. These substations are in support of the proposed 500 kV transmission line for TrAILco. Responsibilities included management of the projects, review of project scopes of work, final review of project deliverables, and serving as Geotechnical Engineer of Record.
- **502 Junction/Meadow Brook QC, Kenny Construction, Greene County, PA.** Principal-in-Charge. Responsibilities included overseeing project efforts, providing technical expertise for soils compaction and slope stability issues, and instituting daily call-ins to facilitate the transfer of information among L.R. Kimball staff members.
- **Heinz Field and Demolition of Three Rivers Stadium, Sports & Exhibition Authority of Allegheny County, Pittsburgh, PA.** Project Geotechnical Engineer for preliminary and final subsurface investigations, laboratory testing, analyses, report; and oversight of construction of more than 2,300-feet of auger cast-in-place concrete piles for the New Pittsburgh Steelers NFL Stadium.
- **Shawville Generating Station, Reliant Energy, Clearfield County, PA.** Project Coordinator and Geotechnical Engineer for the four-unit, coal-fired Shawville Generating Station and associated fuel and waste facilities. Work included the coordination of permits, design and construction QA/QC required for permitting efforts; and oversaw the efforts of three project managers assigned to engineering efforts.
- **Shawville Generating Station Fly Ash Waste Disposal Area, Reliant Energy, Clearfield County, PA.** Project Geotechnical Engineer responsible for final site investigation, laboratory testing, analyses, and report associated with the required slope stability/settlement analysis for the residual waste landfill.
- **Allegheny County Jail, Allegheny County, Allegheny County, PA.** Project Geotechnical Engineer for preliminary and final site investigation, laboratory testing, analyses, and report associated with the design of the 12-story prison. Project included 250+ variable depth end bearing caissons and anchored retaining wall.
- **Cosgrave Hall Addition, Mount Aloysius College, Cresson, PA.** Sr. Geotechnical Engineer responsible for the preparation of the project drilling and sampling plan, site subsurface exploration drilling, drilling inspection, laboratory testing, foundation analysis and report.

Professional Affiliations

American Concrete Institute
American Society for Testing & Materials
American Society of Civil Engineers
Association of Drilled Shaft Contractors
Association of Engineering Firms Practicing in the Geosciences(ASFE)
Association of State Dam Safety Officials
Deep Foundations Institute
Post Tensioning Institute
National Society of Professional Engineers

DAVID G. MINNEAR, PE

Project Role
Project Manager

Education
BS, Civil Engineering, The Pennsylvania State University, 1978

Registrations
PA, Professional Engineer, 1983
WV, Professional Engineer, 1985
OH, Professional Engineer, 1997
DE, Professional Engineer, 1997
MD, Professional Engineer, 1997
VA, Professional Engineer, 1997
NJ, Professional Engineer, 1998

Professional Experience

Mr. Minnear serves as a Project Manager, specializing in water resources and solid waste projects for L.R. Kimball. He has worked on a wide variety of projects ranging from the reclamation of abandoned mine lands to the development of stormwater management regulations. Mr. Minnear is responsible for all civil projects involving abandoned mine land (AML) reclamation, abandoned mine discharge (AMD) remediation, fly ash and coal refuse disposal sites, municipal landfills and solid waste planning projects. In this capacity he has worked on AML and solid waste projects in Alabama, Kentucky, Virginia, West Virginia, Ohio, Pennsylvania, Maryland and New Jersey.

Mr. Minnear serves as the company's chief hydraulics engineer for projects involving dams. Hydrologic/hydraulic engineering projects under his direction and supervision have included the design and assessment of dozens of dams, inspection and preparation of assessment reports as to the status of water supply, recreational and hydroelectric generating dams, review and preparation of FEMA flood insurance studies, studies to modify pre-existing flood insurance studies to allow for development within areas previously designated as being within the floodway boundaries, and the development of area-wide model stormwater management criteria.

Project Experience

- **PADEP Bureau of Abandoned Mine Land (BAMR), Multiple Site Assessments.** Project Manager and Design Engineer associated with multiple projects conducted for the PADEP/BAMR under a series of open-ended contracts. Projects conducted for the DEP/BAMR included: abandoned mine void assessments; mine subsidence evaluations; coarse refuse and mine spoil investigations, sampling and laboratory testing. Specific projects of note included the Palo Alto, Pittston and South Freeland Mine Subsidence studies.
- **Laurel Run #2 Remediation, Blacklick Creek Watershed Association, Indiana County, PA.** Principal Designer and Project Manager for the assessment and design of remedial measures at an abandoned deep mine. The project included creation of wet seals for multiple mine openings, backfill stabilization of a dangerous highwall, and creation of a passive treatment system for AMD discharging from the mine openings.
- **OSM Abandoned Mine Land Site Reclamations, US Office of Surface Mining, KY, WV, VA.** Design Coordinator and Project Manager for the repair and reclamation design of 16 emergency abandoned mine land sites. These project designs involved remedial measures required to cleanup, regrade and improve the safety of various mine-related landslides and mine blowouts, and the design of remedial measures including construction drawings and specifications.
- **Semi-Annual Coal Slurry Dam Inspections, Pittston Coal Group, KY, VA, and WV.** Insurance Certification Inspector for semi-annual inspections of up to 15 coal slurry impoundments. Dams were in various levels of use, from initial development to nearing abandonment. Inspection reports were instrumental in the issuance of insurance to allow for continued site operations.
- **Yellow Creek Watershed, Blacklick Creek Watershed Association, Indiana County, PA.** Principal Designer and Project Manager for multiple abandoned mine land reclamation and AMD treatment facilities consisting of separate treatment "modules". Two of these projects incorporated approximately 2.3 acres of mitigation wetlands as final treatment prior to discharge.
- **USDA/SCS Galloway RAMP Project, Barbour County, WV.** Project Engineer for the development of remedial modifications to the abandoned Galloway mine. This project included quenching existing refuse fires, regrading the site

to bury the existing coarse refuse, development of stormwater management features, and wet seal of an existing deep mine opening.

- **USDA/SCS Dante Refuse Area RAMP Project, Dante, VA.** Project Engineer for the development of remedial modifications to the extensive, abandoned Dante mine workings. This project included regrading the site to bury the existing coarse refuse, development of stormwater management features, installation of several bat gates on existing tunnels/mine entries, and wet seal of an existing deep mine opening.
- **Sharples Coal Company, Refuse Disposal Site Design, Sharples, Logan County, WV.** Project Engineer for the investigation and design of a large refuse disposal area for the Sharples Coal Company. This site included both a slurry impoundment and a coarse disposal landfill, along with a slurry press for water removal.
- **Hydrogeologic Investigation and Design of Flyash Disposal Facility, Allegheny Energy Supply, Monongalia County, WV.** Project Manager /Design Engineer for this ash landfill with an anticipated life of 30 years. Responsible for all aspects of the design of the disposal facility, including site grading plans, sediment pond hydraulics, dam permitting and construction inspection, extensive field work associated with the evaluation of potential impacts to the groundwater, and development of construction drawings.
- **Modifications to an Existing Flyash Disposal Facility, Allegheny Energy Supply, Preston County, WV.** Design Engineer and Project Manager for this residual waste landfill with an anticipated life of 25 years. Directly responsible for all aspects of the design, as well as overseeing the geotechnical investigation and permitting of the facility.
- **Modifications to an Existing Flyash Disposal Facility, Allegheny Energy Supply, Harrison County, WV.** Design Engineer and Project Manager for this residual waste landfill with two stages having an anticipated total life of approximately 50 years. Directly responsible for all aspects of the design and permitting of the disposal facility, as well as overseeing a very detailed geologic investigation of the two existing sites and the proposed future development area.
- **South Sandy Creek Watershed Assessment, Venango County Conservation District, Venango County, PA.** Project Engineer for the development of the water quality assessment of an AML impacted watershed. Responsibilities included quality assurance for the database development, assistance with the identification of site priorities, and preparation of remediation recommendations for each prioritized site.
- **Upper and Little Schuylkill River, Schuylkill County Conservation District, Schuylkill County, PA.** Project Engineer for the development of the water quality assessment of two watersheds. Responsibilities included quality assurance for the database development, assistance with the identification of site priorities, and preparation of remediation recommendations for each prioritized site.
- **Shamokin Creek Watershed Assessment, Northumberland County Planning Commission, Northumberland County, PA.** Senior Technical Specialist for the assessment which resulted in the development of a Watershed Restoration Action Strategy guiding future remediation work by the Shamokin Creek Restoration Alliance and Northumberland County Conservation District. Duties included quality control, presentation at public meetings, and project coordination with county personnel.

Professional Affiliations
Association of State Dam Safety Officials
National Society of Professional Engineers
Pennsylvania Society of Professional Engineers
Society of American Military Engineers
Solid Waste Association of North America (SWANA)
Professional Recyclers of Pennsylvania (PROP)

Certifications
OSHA 40 Hour Hazardous Waste Operations & Emergency Response Training

A. EDWARD SCIULLI, PG, PMP

Project Role
Task Manager

Education
BS, Geoscience/Geophysics, The Pennsylvania State University, 1986

Registrations
PA, Professional Geologist, 1994

Professional Experience

Mr. Sciulli serves as a Senior Geologist for L.R. Kimball. He has experience conducting environmental, geologic, hydrogeologic and remedial investigations involving contaminated soil and groundwater. He is experienced in conducting subsurface investigations and monitoring well installation, hydrogeologic testing, environmental sampling of soils and groundwater, drilling inspection, soil and geologic logging, environmental assessment, remedial alternative analysis and remedial construction. His responsibilities have included collection, evaluation, and accurate reporting of environmental data associated with geologic and hydrologic assessments, and design and management of large scale, multi-site/multi-media investigation and sampling projects.

Mr. Sciulli also serves as the Geographic Information System (GIS) specialist responsible for design and implementation of environmental and geologic data management systems. He has developed an in-house relational database using Microsoft Access for the management and tracking of multi-site/multi-media environmental data. The system is capable of tracking/managing all types of environmental data including drilling and borehole information, well installation and hydrogeologic parameters, positional data, mapping data, remote sensing data, facility information, environmental samples and analytical results. Through integration of the database and ESRIs ArcView, he has developed site specific GIS systems for the spatial evaluation of site features, interpretation of subsurface conditions and investigation results, and generation of site specific reports and maps. He is responsible for data compatibility evaluations, quality assurance, database maintenance, design and implementation of data collection procedures, and training.

Mr. Sciulli's experience includes design and performance of geophysical investigations on environmental and geotechnical projects. His responsibilities include geophysical survey design and planning, data collection, data processing, interpretations and accurate reporting of all geophysical survey results. He has successfully applied techniques to investigate subsurface problems on environmental and geotechnical projects, such as seismic refraction and downhole velocity surveys (P and S wave), spectral analysis of surface wave sounding, electromagnetic induction, DC resistivity, wireline logging, ground magnetic, and ground penetrating radar profiling.

Project Experience

GIS/WATERSHED ASSESSMENT

- **Upper and Little Schuylkill River, Schuylkill County Conservation District, Schuylkill County, PA.** Received 2001 and 2002 Governor's Award for Watershed Stewardship. Project Manager for an assessment and prioritization of acid mine drainage (AMD) impacts within the Schuylkill River watershed. Developed a combined Relational Database/GIS which was used to manage collected data, provide a means for physical and chemical data analysis as it pertains to water quality, provide spatial analysis of water quality between individual discharges and sub-watersheds, identify gaps in data collection, and serve as a depository for data gathered in the future.
- **Shamokin Creek Watershed, Northumberland County Planning Commission, Northumberland County, PA.** Project Manager for an assessment and prioritization of acid mine drainage (AMD) impacts within the Shamokin Creek Watershed. Work included the development of a user friendly relational database/GIS used to manage collected data and physical and chemical data analysis. The system was used to prioritize sites for future restoration.
- **Blacklick Creek Watershed, Blacklick Creek Watershed Association, Indiana County, PA.** Project Manager for an assessment and prioritization of acid mine drainage (AMD) impacts within the Blacklick Creek Watershed. Work included the development of a user friendly relational database/GIS used to manage collected data and physical and chemical data analysis. The system was used to prioritize sites for future restoration.

GEOPHYSICS

- **Cheswick and Titus Power Generating Stations, Parsons Energy and Chemical Groups Inc., PA.** Project Geophysicist for a comprehensive geophysical utility clearance survey for new construction activities at each generating station. Conducted ground penetrating radar and electromagnetic induction surveys to identify unknown utility locations and verify suspected utility locations around and within operating sections of each station. Results were used to place exploratory borings and for final construction design.
- **Paradise Stream Resort, Gallerie Construction, Mt. Pocono, PA.** Project Manager for a comprehensive geophysical survey at the Paradise Stream Resort to accurately identify and locate all underground utilities. Several complimentary geophysical techniques (radiodetection, electromagnetic and GPR) were use to survey the approximately 10 acre site located in Mt. Pocono PA. Results of the survey were used to direct restoration activities at the flood damaged resort.
- **Mitchell Power Plant, American Electric Power, Cresap, WV.** Task Manager for a comprehensive geophysical survey to locate and accurately map subsurface utilities in the proposed construction areas (20 acres) of the plant. Geophysical methods used included magnetic, electromagnetic (conductivity) and ground penetrating radar. The surveys were supplied to help Parsons Energy & Chemicals Group, Inc. in their design of the FGD scrubber at the Mitchell Plant. Geophysical scanning was conducted to locate underground piping, utilities, and any other foreign objects that would hinder the geotechnical investigation and plant design.
- **Big Sandy Power Plant Unit 2, American Electric Power, Louisa, KY.** Task Manager for a comprehensive geophysical survey to locate and accurately map subsurface utilities in the proposed construction areas of the plant (20 acres). Geophysical methods used included magnetic, electromagnetic (conductivity) and ground penetrating radar. The surveys were supplied to help Parsons Energy & Chemicals Group, Inc. in their design of the FGD scrubber at the Big Sandy Plant. Geophysical surveys were conducted to locate underground piping, utilities, and any other foreign objects that would hinder the geotechnical investigation and plant design.
- **John E. Amos Power Plant, American Electric Power, St. Albans, WV.** Task Manager for a comprehensive geophysical survey to locate and accurately map subsurface utilities in the proposed construction areas of the plant (15 acres). Geophysical methods used included magnetic, electromagnetic (conductivity) and ground penetrating radar. The surveys were supplied to help Sargent & Lundy in their design of the FGD scrubber at the Amos Plant. Geophysical surveys were conducted to locate underground piping, utilities, and any other foreign objects that would hinder the geotechnical investigation and plant design.

Professional Affiliations
National Ground Water Association
Environmental and Engineering Geophysical Society

Certifications
NJDEP Cleanup Stars, 2006
OSHA 40 Hour Hazardous Waste Operations & Emergency Response Training
OSHA Hazardous Waste Site Supervisor
OSHA Confined Space Entry & Rescue
Project Management Professional (PMP), 2009

CAMERON R. MOCK, PE

Project Role
Task Manager

Education
BS, Civil Engineering Technology, University of Pittsburgh at Johnstown, 1977

Registrations
PA, Professional Engineer, 1981
WV, Professional Engineer, 1985
OH, Professional Engineer, 2003
NC, Professional Engineer, 2003
VA, Professional Engineer, 2003
NJ, Professional Engineer, 2003
MD, Professional Engineer, 2004

Professional Experience

Mr. Mock serves as a Senior Project Manager for L.R. Kimball, specializing in mining and water/wastewater projects. Mr. Mock performs a wide range of services related to mine permitting, mine waste disposal facilities design and permitting, site development, stormwater management, hydrology, hydraulics, highway design, earth sciences, erosion and sedimentation control, sewerage systems, water systems, municipal engineering, recreation facilities, engineering surveying, construction inspection and construction contract management.

Project Experience

MINE PERMITTING AND RECLAMATION DESIGN

Mr. Mock's mine permitting and AML reclamation design experience includes the development of permits for active mining sites, and design of active AMD treatment facilities and coal refuse disposal sites. He was also instrumental in the development of AML remediation plans for several large projects in West Virginia for the USDA/SCS.

- **USDA/SCS Galloway RAMP Project, Barbour County, WV.** Project Manager for the development of remedial modifications to the abandoned Galloway mine. This project included quenching existing refuse fires, regrading the site to bury the existing coarse refuse, development of stormwater management features, and wet seal of an existing deep mine opening.
- **USDA/SCS Dante Refuse Area RAMP Project, Dante, VA.** Project Manager for the development of remedial modifications to the extensive, abandoned Dante mine workings. This project included regrading the site to bury the existing coarse refuse, development of stormwater management features, installation of several bat gates on existing tunnels/mine entries, and wet seal of an existing deep mine opening.
- **Sharples Coal Company, Refuse Disposal Site Design, Sharples, Logan County, WV.** Project Manager for the investigation and design of a large refuse disposal area for the Sharples Coal Company. This site included both a slurry impoundment and a coarse disposal landfill, along with a slurry press for water removal.

POTABLE WATER

Mr. Mock's potable water experience includes water system evaluations; distribution system computer modeling; system viability; and design and preparation of construction specifications, contract documents and Public Water Supply permit applications for water lines, water supply well pumping systems, water booster stations, water storage tanks, chemical feed systems and chlorine disinfection. Mr. Mock has recently been trained and is certified in the Risk Assessment Methodology for Water (RAM-W).

- **Reading Mines Water System Improvements, Somerset County Redevelopment Authority, Somerset County, PA.** Project Manager/Engineer for the preparation of construction drawings and technical specifications for the in-ground water storage tank concrete rehabilitation, tank liner system, tank cover system, pump house renovations (building, roofing, electrical and ventilation), sodium hypochlorite feed system and water line replacement. Provided periodic construction monitoring and approval of shop drawings and payments to the contractor
- **Centre County Prison Water Supply Evaluation, Centre County Commissioners, Centre County, PA.** Project Manager/Engineer for the evaluation of alternative means to provide potable water and water for fire protection to the proposed Prison. Performed water system modeling and developed five preliminary alternative means to convey and provide water for fire protection to the prison. Prepared a report that presented alternatives with preliminary cost estimates, advantages and disadvantages with recommendations for the water service.

- **Centre County Prison Waterline Extension, Centre County Commissioners, Centre County, PA.** Project Manager/Engineer for the design of 8,700 lineal feet of 12 inch ductile iron waterline to the prison. Performed water system hydraulic analysis, coordination line location with SCI Rockview, and performed design of waterline. Supervised the preparation of Construction Drawings, Construction Specifications, permit applications and estimates.
- **Water System Improvements, Rockwood Borough Municipal Authority, Somerset County, PA.** Project Manager/Engineer for the water system improvement project to bring the Authority's water system into compliance with water quality and filtration law. The project included development of two new groundwater wells, 2.8 miles of water transmission lines from wells to the existing system, gas chlorine disinfection system, 24" chlorine contact tank piping, corrosion control chemical feed system and booster station. Prepared construction plans, specifications, permit applications and PENNVEST funding application for the improvements. Mr. Mock supervised construction of improvements and administered the PENNVEST loan.
- **Valley Green Subdivision Water System, Beth Contracting Inc., Indiana County, PA.** Project Manager/Engineer for the extension of the Clymer Borough Municipal Authority water system to the Valley Green Subdivision. Design of 8,600 feet of 6- and 8-inch water line and appurtenances, a 48,000-gallon aboveground storage tank, a booster station, and a chlorination station. Prepared construction plans, construction cost estimates, property acquisition and right-of-way plats, permit applications, technical specifications and bid documents. Performed bidding services and shop drawing review, and supervised construction inspection and contract administration.
- **Indian Lake Water System Evaluation, Indian Lake Borough, Somerset County, PA.** Project Engineer for the Indian Lake Water System evaluation consisting of two water supply wells, two chlorination stations, three aboveground storage tanks, and 2-inch to 8-inch water lines. Performed visual inspection of accessible facilities, updated system mapping and developed a computer model of the water system using pipe network modeling software. Identified system improvements to correct deficiencies and upgrade aging facilities. Estimated capital costs of improvements and an implementation schedule were developed.
- **Rockwood Water System Filtration Feasibility Study, Rockwood Borough Municipal Authority, Somerset County, PA.** Project Engineer for a filtration feasibility study to identify the recommended filter technology for iron and manganese removal from a groundwater source. The capital and operation and maintenance costs of each technology considered were estimated to assist in the comparison of alternatives using a present worth analysis. Other system improvement costs were estimated to develop a total system improvement cost to compute user fees considering PENNVEST and FmHA funding scenarios.

Professional Affiliations
American Society of Civil Engineers
National Society of Professional Engineers
Pennsylvania Society of Professional Engineers
American Society of Highway Engineers
American Water Works Association

Certifications
OSHA Confined Space Entry & Rescue
AWWA - Risk Assessment Methodology for Water Systems, 2002

JAMES R. MARHEFKA, JR., PG

Project Role
Task Manager

Education
BS, Geology, University of Pittsburgh in Johnstown, 1987

Registrations
PA, Professional Geologist, 1995
PA, Underground Storage Tank Inspector, 1994
NJ, Underground Storage Tank Inspector, 2009

Professional Experience

Mr. Marhefka serves as a Project Geologist for L.R. Kimball. He is responsible for managing all aspects of field efforts including the collection and evaluation of soils and geologic and hydrologic data on geotechnical, environmental assessment, groundwater assessment, remedial action, and storage tank projects. In fulfilling these responsibilities, he routinely performs drill inspections, soil and geologic logging, environmental sampling, hydrogeologic testing of monitor wells, inspection and supervision of remedial and construction contractors, evaluation of soil and water contamination, and supervision of junior level staff. Mr. Marhefka uses computer models for slug tests, potentiometric surface contours, geologic cross-sections, boring logs and soil profiles. He incorporates the data and presentations into reports for environmental assessment, fate and transport analysis, subsurface geology, groundwater hydrology, cost estimates, and underground storage tank closure reports.

Mr. Marhefka is experienced in various drilling techniques including air rotary, mud rotary, coring, augering, and cable tool methods. This experience was developed during his inspection of subsurface investigations for soil and rock sampling, in-situ testing, monitor well installation, well abandonment, and geotechnical investigations. His inspection experience also includes field testing of soil, water, and rock samples for physical characteristics and presence of petroleum products, organic and inorganic contaminants.

Mr. Marhefka is a certified storage tank professional and has conducted numerous UST removals and in-place closures. In completing these tasks, he routinely prepared UST closure reports and conducted site assessments to evaluate the nature and extent of petroleum hydrocarbon impacts to soil and groundwater. He also characterized contaminated soil and groundwater during remediation of UST sites and coordinated for the proper disposal of the materials. In addition, Mr. Marhefka has conducted UST Facility Operations Inspections in accordance with PADEP protocols.

Project Experience

- **Remedial Investigation at Alan & Son Car Care Center, NJDEP, Branchburg, NJ.** Field Task Manager/Geologist. Field Task Manager responsible of implementation of Site Specific Work Plan and all portions of field activities associated with a multi-phased remedial investigation at an NJDEP Known Contaminated Site. Duties included supervision and oversight of drilling subcontractor tasked with advancing 28 soil boring, installing 21 bedrock monitoring wells, and well abandonment activities; oversight of down hole geophysical logging subcontractor; collection of soil and groundwater samples; management of on-site temporary storage of remedial derived wastes; and management of several environmental professions during the course of the project. Responsible for management and shipment of all analytical samples in accordance with IATA Dangerous Goods Shipping regulations.
- **Remedial Investigation at Shoplock Sunoco, NJDEP, Branchburg, NJ.** Field Task Manager/Geologist. Field Task Manager responsible of Site Specific Work Plan and all portions of field activities associated with a multi-phased remedial investigation of a NJDEP Known Contaminated Site. Duties included supervision and oversight of drilling subcontractor tasked with advancing 30 soil boring, installing 16 bedrock monitoring wells, and well abandonment activities; oversight of down hold geophysical logging subcontractor; collection of soil and groundwater samples; management of on-site temporary storage of remedial derived wastes; and supervision of several environmental professions during the course of the project. Responsible for management and shipment of all analytical samples in accordance with IATA Dangerous Goods Shipping regulations.
- **Statewide Open-End Engineering and Environmental Services, Pennsylvania Department of Transportation, Harrisburg, PA.** Geologist for the site characterization of a PennDOT Maintenance Facility which utilizes several

underground storage tanks for fleet fueling. Activities included managing all aspects of the intrusive field investigation, reviewing and reducing analytical data, and preparing the Site Characterization Report. Geologist for the investigation and design of a remedial action at a site impacted by coal tar residuals. Duties included managing remedial subcontractors and intrusive investigations, evaluating and reducing analytical and geotechnical data, and preparing a site investigation report.

- **Remedial Investigation of Ottilio Landfill, Newark, NJ.** Project Geologist/Field Task Manager. Managed all portions of field investigation at an uncontrolled hazardous waste site located within a heavily industrialized portion of Newark, NJ. Duties included managing several junior level environmental professionals, supervising remedial contractors, providing health and safety oversight, inspecting the installation of 12 unconsolidated groundwater monitoring wells, directing waste delineation activities, and managing the collection of environmental samples.
- **Geotechnical Investigation for the Pennsylvania Turnpike Commission, Milepost 0-10, Lawrence and Butler Counties, PA.** Level 2 Drill Inspector responsible for documenting drilling activities for the redesign of mainline and overhead structures located between Mileposts 0 and 10. Duties included inspecting the drilling of over 70 soil boring, logging soil and rock cores, determining RQD, ensuring compliance with approved traffic control measures and coordinating between PA Turnpike Commission personnel and the drilling subcontractor.
- **Caisson Inspection at Hoganas North American Plant, Hollsopple, PA.** Geologist. Performed caisson inspection activities during the installation of over forty 4-foot diameter caissons. Responsible for determining top of competent bedrock, preparing geologic log for each boring, documenting construction activities and ensuring compliance with project specifications.
- **911th TAG POL Site Remedial Investigation, U.S. AirForce 911 Airlift Group, Pittsburgh, PA.** Geologist. Performed extensive soil and groundwater sampling in development of remedial action alternatives. Installed and sampled monitoring wells for delineation and assessment purposes. Conducted rising head and falling head slug tests and eight hour pump tests to calculate the hydrogeologic characteristics of the aquifer.
- **Remedial Investigation, Aliquippa Works of LTV Steel, Pittsburgh, PA.** Geologist and Site Coordinator. Managed field activities at a former industrial facility. Supervised filed team, remedial contractors, managed environmental samples interfaced with analytical laboratory and documented field activities and site conditions.

Continuing Education
Principles of Ground Water - Flow, Transport, and Remediation, 2003
Princeton Ground Water, Inc. - The Ground Water Pollution and Hydrology Course, 2006

Professional Affiliations
Pennsylvania Council of Professional Geologists, National Groundwater Association

Certifications
NJDEP Cleanup Stars, 2004
OSHA 40 Hour Hazardous Waste Operations & Emergency Response Training
OSHA Hazardous Waste Site Supervisor
OSHA Confined Space Entry & Rescue
Certified Operator of NITON XRF Spectrum Analyzer
Advanced Hazardous Materials Management: DOT/IATA/IMO
PennDOT Level II Drilling Inspector

WILLIAM E. STENGER, REM, CES, CRS

Project Role
Task Manager

Education
BS, Environmental Science, Almeda University, 2006

Registrations
Registered Environmental Manager, 2004

Professional Experience

Mr. Stenger serves as a Project Manager for L.R. Kimball with a wide range of environmental sciences experience. His years of practice in remedial investigation and remedial alternatives analysis, project management, and field supervision of a vast number of environmental and industrial engineering projects includes: mine permitting and abandoned mine land (AML) remediation; strategic development and implementation of multi-phase environmental investigations and audits; administration and performance of Phase I, II, and III environmental assessments; waste management planning and implementation; and performance of environmental impact studies. Mr. Stenger is also an accomplished land surveyor in both above and below-ground scenarios.

Mr. Stenger has extensive experience in field sampling and on-site management including: extensive organization, implementation and oversight of field sampling programs for soil, aqueous and gaseous matrices; drill inspection/logging using air rotary, mud rotary, HSA, SSA, cable tool, Geoprobe®, split spoon and coring methodologies; utilization of field testing equipment including: geophysical radar equipment, magnetometers, Troxler gauges, flame-ionization detectors, photo-ionization detectors, explosimeters, LEL/02 meters, pH meters, conductivity meters, temporary meters, flow meters, pressure transducers, interface/water level indicators, air monitoring devices, pumping devices (submersible, centrifugal, peristaltic, diaphragm and bladder pumps), Gamma loggers, Ensys Analysis kits, power/hand augers, etc.; and, operation and supervision of heavy equipment such as: excavators, loaders, backhoes, dozers, vibratory rollers and forklifts.

While previously serving as a Corporate Health and Safety Officer, Mr. Stenger gained extensive experienced in the organization and application of health & safety and training programs including: MSDS programs, field certification tracking, toxicology, industrial hygiene, site specific health and safety plans, NRC compliance programs and medical monitoring programs.

He has also prepared numerous permit applications and planning modules such as Surface Mining Permit Applications, NPDES and Industrial Planning Modules, Highway Occupancy Permits, Coal Refuse Disposal Permits, and Air Quality and Regulatory Compliance Permits.

Project Experience

- **Ottilio Landfill Environmental Investigation Project, New Jersey Department of Environmental Protection, Newark, NJ.** Task Manager for field investigations at an uncontrolled hazardous waste site located within a heavily industrialized portion of Newark, NJ. Work included: managing several junior level environmental professionals, supervising sub-contractors, providing health and safety oversight, and managing the collection of environmental samples.
- **Big Hill/BEMS Landfill Groundwater Project, New Jersey Department of Environmental Protection, Burlington County, NJ.** Task Manager for field investigations at a landfill site identified as a potential source of area groundwater contamination. Work included: extensive groundwater sampling, site health and safety, process evaluation, aquifer testing via pump tests, data interpretation, and development of remediation alternatives.
- **Punxsutawney Bus Terminal CEE, Area Transportation Authority of North Central PA, Punxsutawney, PA.** Project Manager for the preparation of a Categorical Exclusion Evaluation (CEE) for the proposed ATA Bus Terminal. Work included: ASTM 1527-05 Phase I ESA; hazardous materials inventory/sampling; remediation cost analyses; cultural resources study; noise study; traffic study; air quality study; flood plain study; wetlands study; ecological assessment; Section 4(f) resources study; safety/security study; public involvement; and, document preparation.

- **Penn Center East Phase I ESA/All Appropriate Inquiry, L G Realty Advisors inc., Monroeville, PA.** Project Manager for the Phase I Environmental Site Assessment/All Appropriate Inquiry of a 97-acre commercial site that included seven multi-story office buildings, two major retail facilities, a bank and various specialty shops. Work included: ASTM 1527-05 compliant Phase I ESA; Hazardous materials inventory; geophysical investigation; and, report compilation.
- **Cambria Iron Works - Lower Ore Yard Phase I & II ESA, Johnstown Redevelopment Authority, Johnstown, PA.** Project Manager for the multi-matrix site characterization of a 17-acre parcel at a former steel manufacturing facility. Work included: performance of an ASTM 1527-05 compliant Phase I ESA; performance of a comprehensive soil boring/sampling plan designed to allow characterization of the property; surface water sampling; data interpretation; site mapping/surveying; and, report preparation.
- **Cambria Iron Works – Rosedale Tract Phase I & II ESA, Johnstown Redevelopment Authority, Johnstown, PA.** Project Manager for the multi-matrix site characterization of a 15-acre parcel at a former steel manufacturing facility. Work included: performance of an ASTM 1527-05 compliant Phase I ESA; performance of a comprehensive soil boring/sampling plan designed to allow characterization of the property; surface water sampling; data interpretation; site mapping/surveying; and, report preparation.
- **SR0056 West End Bypass Highway Improvement Project, Pennsylvania Department of Transportation, Johnstown, PA.** Project Manager for the multi-phase environmental assessment of pertinent properties associated with proposed alternatives for the highway construction project. Work includes: Phase I environmental assessments of 1,647 properties identified within the proposed alignments, geophysical surveys, development of Phase II & III work plans, multi-matrix intrusive investigations, report preparation, public relations, and utility mapping.

Professional Affiliations
Water Environment Federation
Environmental Assessment Association
Pennsylvania Association of Environmental Professionals
Environmental and Engineering Geophysical Society
National Ground Water Association
National Registry of Environmental Professionals

Certifications
Certified Environmental Specialist, 1997, #14420
Certified Remediation Specialist, 1997, #14420
OSHA Hazardous Waste Site Supervisor
OSHA 40 Hour Hazardous Waste Operations & Emergency Response Training
DOT/IATA Certified
Nuclear Safety Officer - NRC Certified
Licensed Nuclear Density Gauge Operator
OSHA Confined Space Entry & Rescue
Underground Mine Safety 40 hr. - MSHA Certified
Field Soil Investigator - ENSYS Certified
OSHA Lead in Construction
Health and Safety Officer Training - LRK Certified
Automated External Defibrillation - AHA Certified

MICHAEL J. CANNONI, PLS

Project Role
Surveying

Education
Civil Engineering, University of Pittsburgh at Johnstown

Registrations
PA, Professional Land Surveyor, 1987
NJ, Professional Land Surveyor, 2000
OH, Professional Land Surveyor, 2000
WV, Professional Land Surveyor, 2008

Professional Experience

Mr. Cannoni serves as a Project Manager and Chief of Surveys. He has more than 35 years of experience in field surveying and engineering functions with 30 years of experience as survey party chief and site engineer. He is responsible for survey management, including budget preparation and control, preparation of proposals, scheduling, equipment maintenance, interaction with government agencies, public relations and survey preparation.

Mr. Cannoni's surveying experience includes ALTA, property, topographic, and hydrographic surveys, state highway construction, site layout and development, housing subdivisions, utilities, roads, municipal facilities, landfills, and slide investigations. He is familiar with the use of all survey equipment from Brunton compass, transits, and chains, to state-of-the-art fully robotic instruments, RTK GPS systems and computational equipment.

He is also experienced in the use of AutoCAD Land Development Desktop software, utilizing "Field to Finish" data collection.

Project Experience

- **Hancock County Sanitary Sewer Design, Hancock County PSD, Weirton, WV.** Survey Manager. L.R. Kimball provided aerial mapping, ground control, and stakeout for 26 miles of sanitary sewer and a treatment facility in a rural area near New Manchester, WV. This survey entailed running manual ground control and tying property lines and other features into the mapping so that we could design and construct a sanitary sewer system. This project included the design and stakeout of a sewage treatment facility, sanitary manholes, and forcemain.
- **North Branch of the South Fork of the Potomac River, Soil Conservation Service, Pendelton County, WV.** Survey Manager. Hydrographic survey and cross sectioning of 25 miles of the Potomac River from the headwaters in Virginia, to the airport in Petersburg, WV. This survey entailed running hydrographic cross sections every one half mile along the river and detailed survey of all of the river crossings. The sections were then tied together utilizing GPS technology.
- **Various Sites, Preston County, WV.** As a resident of Kingwood, Preston County, performed boundary, topographic, surface and underground mining surveys.
- **Southpointe II Development, Washington County Authority, CONSOL Energy, Washington County, PA.** Survey Manager. Mr. Cannoni performed site design and engineering surveys along with final right of way drawings and easement plans for this commercial business park. Post construction ALTA surveys were performed on two of the parcels for CONSOL Energy's new headquarters facilities.
- **Carrie Furnace Redevelopment, Redevelopment Authority of Allegheny County, PA.** Survey Manager. ALTA and Topographic survey of the former Carrie Furnace mill site in Rankin, Homestead and Swissvale.
- **Engineering Services for Cherrington and Clinton Commerce Parks, Allegheny County Airport Authority, PA.** Survey Manager for Boundary and topographic surveys conducted for the new US Airways training center, Clinton Industrial Park and the Cherrington development.
- **Topographic and Engineering Surveys for Package 10 of the ALCOSAN Phase I CIP, ALCOSAN, Pittsburgh, PA.** Survey Manager. Three dimensional survey of the existing open air stairway which provides access to the wet well. This survey was utilized to determine the angle and location of the proposed influent pipe. In addition, we provided several engineering and volumetric surveys for properties and utility design.
- **Heinz Field, Pittsburgh Steelers, Pittsburgh, PA.** Survey Manager. Boundary and topographic survey of the existing Three Rivers Stadium and the proposed Steelers football stadium (Heinz Field). This survey entailed establishing property and right of way lines for the design of the new Steelers football stadium and providing ground control for the in

house aerial mapping for both of the North Shore stadium projects. In addition, we provided all of the as built information for the design of the new utilities that will serve the new stadium, road abandonment, and resubdivision of the residual parcels.

- **PNC Park, Monaloh Basin Engineers, Inc., Pittsburgh, PA.** Survey Manager. As a subcontractor to Monaloh Basin , L.R. Kimball provided ground control and aerial mapping for PNC Park baseball stadium on the North Shore. While performing this survey, we established all of the baseline control points on the City of Pittsburgh datum that were utilized to perform boundary and construction stakeout for both stadiums.
- **Boundary Survey, City of Pittsburgh Urban Redevelopment Authority, Pittsburgh, PA.** Survey Manager. Survey of 12,000 l.f of vacated railroad right of way lying between the inbound and outbound lanes of the Parkway east. This property has since become the parking lot and biking trail east of the new county jail.
- **Franklin Mall Expansion (now Washington Crown Center), Crown American Properties, North Franklin Township, Washington, PA.** Survey Manager. Preparation of an ALTA boundary survey, grade certifications, and construction stakeout of a multi-million dollar construction expansion.
- **Mellon Client Service Center, Joseph B. Fay Construction Company, Pittsburgh, PA.** Survey Manager. Boundary survey, construction stakeout, subsidence monitoring of the LRT station at Steel Plaza Substation, background and subsidence surveying for two directional bores that extend from the new building to the existing Three Mellon building on William Penn Place and Fifth Avenue, and as built drawings of the 14 story Mellon Client Service Center under construction at 6th and Bigelow in downtown Pittsburgh.
- **Pittsburgh International Airport Hyatt Hotel and Conference Center, Dauphin County General Authority, Pittsburgh, PA.** Survey Task Manager. Pre design topographic and utility survey for the Hyatt Hotel and Conference Center currently under construction at the Pittsburgh International Airport.
- **Pittsburgh Public Schools, Pittsburgh, PA.** Survey Manager. Conducted boundary and topographic surveys for Grandview Elementary, Concord, and Belmar Schools.
- **Franklin Park Sanitary Sewer System, Franklin Park, PA.** Survey Manager. Ground control, aerial mapping, and final stakeout of Franklin Park Borough for expansion of an existing sanitary sewer system and design of a sewage lift station. L.R. Kimball also provided coordinates and baseline information for two directional bores under PA Route 79.
- **David L. Lawrence Convention Center Expansion, KAG Engineers Inc., Pittsburgh, PA.** Survey Task Leader. L.R. Kimball provided boring locations, control surveys, and street vacation surveys for the expansion of the David L. Lawrence Convention Center.

Professional Affiliations
Pennsylvania Society of Land Surveyors
Professional Land Surveyors of Ohio
New Jersey Society of Professional Land Surveyors
West Virginia Society of Professional Land Surveyors
New York Society of Professional Land Surveyors

Certifications
Licensed Nuclear Density Gauge Operator
OSHA 40 Hour Hazardous Waste Operations & Emergency Response Training
Certified Impoundment Inspector
E RailSafe Certification

GEORGE S. KOPCHIK, PLS, PMP

Project Role
Aerial Mapping

Education
Associate, Computer Graphics, Pittsburgh Technical Institute, 1984

Registrations
NC, Professional Land Surveyor, 1999
SC, Professional Land Surveyor, 2003

Professional Experience

Mr. Kopchik's experience and education have provided him with the technical and management skills necessary for completing the most complex mapping projects. Over the past 22 years, Mr. Kopchik has had extensive experience in aerial photography, volume computations, digital orthophotos, GIS, and in producing topographic and planimetric maps. He is responsible for QA/QC activities including the checking and verification of planimetric and topographic maps, digital orthophotos, GIS projects, and stockpile inventories for numerous clients.

Since joining L.R. Kimball, Mr. Kopchik has gained valuable knowledge in all phases of photogrammetry and GIS. He has been involved in planning, management, production, and delivery of many mapping projects undertaken by the firm. His knowledge, growth and diversity have allowed him to attain the position of Assistant Operations Manager and Senior Project Manager. In summary, Mr. Kopchik has served in areas of mapping sciences such as project management, division operations, financial reports, budgets and estimates, technical and cost proposals, marketing, digital orthophotography, ArcInfo, KORK, Atlas, and Intergraph software, GIS applications, planning, and database design concepts, photogrammetry, surveying, data conversion, and stockpile inventories. Mr. Kopchik is also experienced in Microsoft Office.

Project Experience

- **Volumes – Various Projects, Eastern Associated Coal Corporation, WV.** Project Manager for providing aerial photography and stockpile inventories each month for several sites in West Virginia.
- **Harrison County Scanning, WVDEP, Clarksburg, WV.** Project Manager for production of aerial photography and scanned images.
- **Wharton Vicinity, Boone County Topographic Mapping, Chapman Technical Group, Wharton, WV.** Project Manager for aerial photography, ground control, and digital photogrammetric mapping services.
- **Various Projects, West Virginia Department of Transportation.** Aerial Photographer for aerial photography and ground control services.
- **Various Projects, PA Department of Environmental Protection, Bureau of Abandoned Mines, PA.** Project Manager. Services included deed research, boundary surveys, set corners, preparation of final maps, planimetric mapping and contours as well as vertical and horizontal ground control.
- **ReGIS Partnership, Alamance County, NC. Project Manager for Alamance County, NC.** Services included taking aerial photography in order to produce color digital orthophotos.
- **Allegheny County Airport Aerial Photography, Geonetics, Inc, Allegheny County, PA.** Project Manager for airborne GPS aerial photography and photo lab services for BSC/Geonetics.
- **Buncombe County Color Orthophoto Mapping, Buncombe County Land Records, NC.** Project Manager for the Buncombe County Color Orthophoto Mapping Project. Services included ground control surveys, color aerial photography, fully analytical aerotriangulation and softcopy stereo update to support the production of 1,565 digital orthophotos.
- **Cambria County Final Design, SR 0022, Section 005, PADEP, PA.** Project Manager for the widening of the existing 2-3 lane section to 4-5 lanes with realignment where necessary.
- **Digital Orthophoto Project, Dare County, NC.** Project Manager for the Dare County Digital Orthophoto Project. Services included of aerial photography, ground control surveys, analytical aerotriangulation, DEM production and digital orthophoto generation. Delivery consisted of aerial photography prints, diapositives, photo indexes and analytical triangulation reports.

- **Dauphin Countywide E911 System, Dauphin County Emergency Management Agency, Harrisburg, PA.** Project Manager providing mapping support for data conversion services, MicroStation/MGE database development, in-site training and project coordination for the implementation of a County-wide geographic information system (GIS) and computer aided dispatch (CAD) management system. Major components of the project included field verification services, street name resolution, Emergency Service Zone (ESZ) creation, rural address conversion, Master Street Address Guide (MSAG) creation, database update & maintenance training, and CAD dispatch integration & implementation services.
- **Countywide Orthophotography, Davidson County, NC.** Project Manager for aerial photography and mapping services.
- **Loudoun County Base Map Maintenance Services, Loudoun County Office of Solid Waste Management, Loudoun County, VA.** Sr. Project Manager for the production of new black and white aerial photography needed for volume calculations.
- **Digital Orthophoto Project, Macon County, NC.** Project Manager for a color digital orthophoto project which included services such as aerotriangulation, ground control surveys, and break line and spot additions.
- **Nash Countywide Digital Orthophoto, Nash County, NC.** Project Manager for a color digital orthophotography project for Nash County. Services included targeting twenty-nine horizontal/vertical control points and setting new, semi-permanent points where existing control was not recoverable or usable. DEM data was collected and then combined with the LIDAR data collected for the North Carolina Floodplain Mapping project. This combination was used to rectify the color digital orthophotos.
- **Digital Orthophoto Project, Wilson County, NC.** Project Manager for a 2007 Digital Orthophoto project for Wilson County, NC. Services included color aerial photography, digital aerotriangulation, minimal breakline and spot additions. Deliveries of the orthophotos were on DVD media Compressed orthophotos were also delivered to the county along with a certified project report, control book, and an aerotriangulation report.
- **ACAA Pittsburgh and County Airports, Allegheny County Airport Authority, Allegheny County, PA.** Project Manager for aerial photography and mapping services.
- **Aerial Surveys and Mapping by Photogrammetric Methods, Allegheny Energy Supply Company, LLC, Various Locations, PA.** Project Manager for providing aerial photography and volumetric calculations for cola stockpiles at ten Allegheny Energy Power Stations.
- **AES Coal Stockpiles, AES Beaver Valley Partners, Beaver County, PA.** Mapping Specialist for providing coal stockpile inventory services for AES Beaver Valley Partners.
- **Aerial Photo and Mapping, City of Alexandria, VA.** Project Manager for performing aerial photography, ground control surveys including a final survey report, and aerotriangulation services.
- **Various Projects, Emerald Coal Resources, LP, Greene County, PA.** Project Manager for various aerial photography and volume calculation services.
- **Coal Pile Density and Volumes, Mirant Mid-Atlantic, LLC.** Mapping Specialist for providing coal stockpile services for Mirant Corporations' Chalk Point, Morgantown, and Potomac River Stations. Aerial Photography services were also performed.
- **Stockpile Inventories– Various Projects, PPL Corporation, PA.** Project Manager for aerial photography services as well as determining the volumes for various stockpiles.
- **TrAiL 500kV Transmission Line Project, Allegheny Energy Supply Company, LLC.** Project Manager for services such as aerial photography, targeting and survey control, scanning, digital orthophotos, planimetric mapping and topographic mapping, and aerotriangulation.

Professional Affiliations
American Society of Photogrammetry and Remote Sensing

Certifications
Project Management Professional, #521453, 4/11/08

BENJAMIN B. GORDON, PE

Project Role
Stability Analysis

Education
MS, Civil Engineering, Rensselaer Polytechnic Institute, 1998
BS, Civil Engineering, Rensselaer Polytechnic Institute, 1997

Registrations
NY, Professional Engineer, 2004
PA, Professional Engineer, 2007
MD, Professional Engineer, 2008
MI, Professional Engineer, 2008
OH, Professional Engineer, 2008
WV, Professional Engineer, 2009
AZ, Professional Engineer, 2009
VA, Professional Engineer, 2009
CA, Professional Engineer, 2009
IA, Professional Engineer, 2009

Professional Experience

Mr. Gordon serves as a Geotechnical Engineer for L.R. Kimball. He has over nine years of experience working on civil and geotechnical engineering projects. He has performed numerous geotechnical investigations for public buildings, industrial structures, roadways, and bridges. These projects included overseeing subsurface investigations, scheduling and interpreting laboratory tests, performing geotechnical analyses relative to foundation design, settlement, slope stability, and pavement design. Related geotechnical work includes drilling inspection, load test oversight, geosynthetic reinforcement applications, analyses of lateral capacity of piles and drilled shafts, wick drains, and analyses of deficient foundation systems.

Mr. Gordon has also provided inspection services, written scopes of work and specifications, performed hydrologic and hydraulic calculations, prepared cost analyses, and reviewed reports from other consultants.

Project Experience

GEO-ENVIRONMENTAL ENGINEERING

- **Allied-Hanlin Site, CDM Federal, Moundsville, WV.** Responsible for the review of geotechnical reports for the capping of several hazardous waste piles. Duties included reviewing and critiquing design reports and observing the construction of a reinforced earth wall forty feet high and 1,200 feet long.
- **Imperial Oil Off-site Areas 1 & 2 Design Project, NJDEP, Marlboro Township, NJ.** Design team member for the remediation of this hazardous waste site. Duties included preparing a boring plan, directing and inspecting drilling operations, designing a gabion wall, and preparing the geotechnical report.
- **Big Hill/BEMS Landfill, NJDEP, Burlington County, NJ.** Design team member for the capping of this municipal waste landfill. Duties included field office support that included hydrologic and hydraulic calculations, preparation of field orders, cost analyses, and field inspection.
- **Ottilio Landfill, NJDEP, Newark, NJ.** Design team member for the capping of this hazardous waste landfill. Duties included performing hydrologic and hydraulic calculations, site planning, grading, and detail development, designing a soldier pile and lagging retaining wall system, writing design reports, directing and inspecting drilling operations, providing inspection of the wall installation, and filling in as the Resident Engineer.
- **Taylor Borough Landfill, CDM Federal, Scranton, PA.** Design team member for the maintenance activities at this hazardous waste landfill. Duties included reviewing landfill closure plans and reports and preparing scopes of work for maintenance activities.

GEOTECHNICAL INSPECTION

- **Heinz Field, Sports & Exhibition Authority of Allegheny County, Pittsburgh, PA.** Lead Inspector for the approximately 2,300 auger-cast piles installed as the foundation for the new stadium. Duties included overseeing static load testing, coordinating the activities of three inspectors, and documenting pile construction procedures.
- **Cherryhill Manufacturing, Maple Mountain Construction, Indiana, PA.** Geotechnical services team member for design and construction phase services for this manufacturing and warehouse facility. Duties included preparing the geotechnical proposal, directing and observing test pit operations, preparing recommendations for foundation construction, and observing site excavation and backfilling operations.

- **Johnstown Transient Quarters, DTC, Johnstown, PA.** Geotechnical services team member for construction phase services for this barracks. Duties included observing and documenting footing excavations and collecting samples of possible pyritic material.
- **MeadWestvaco Warehouse, L. S. Fiore, Alexandria, PA.** Geotechnical services team member for design and construction phase services for this approximately 120,000 square foot warehouse facility. Duties included preparing the geotechnical proposal, coordinating drilling activities, preparing recommendations for foundation construction, and observing site excavation and backfilling operations.

GEOTECHNICAL ENGINEERING

- **PATH Allegheny Due Diligence Work, Proposed Kemptown Substation, Kenny Construction, MD.** Geotechnical Engineer of Record for a preliminary geotechnical investigation of a proposed electrical substation. Responsibilities included development of the subsurface investigation program, management and direction of geotechnical services for drilling and laboratory testing, coordinating with the client, drilling inspection, and preparation of a report presenting the findings of the subsurface investigation.
- **PATH Welton Spring Substation, Geotechnical Services, Kenny Construction, Welton Springs, VA.** Geotechnical Engineer. Responsibilities included development of the subsurface investigation program, management and direction of geotechnical services for drilling and laboratory testing, and review of a report presenting the findings of the subsurface investigation.
- **502 Junction/Meadow Brook QC, Kenny Construction, Greene County, PA.** Geotechnical Engineer. Responsibilities included providing direction to field technicians regarding technical issues, interpreting site drawings and specifications, and reviewing Daily Field Reports.
- **TrAIL Project Soil Boring Study and Core Samples, Kenny Construction, Greene County, PA.** Geotechnical Engineer. Geotechnical site investigations for 2 new substations: 502 Junction Substation located in Dunkard Township, Greene County, PA and Prexy substation located in North Strabane Township, Washington County, PA. These substations are in support of the proposed 500 kV transmission line for TrAILco. Responsibilities included development of the subsurface investigation program, management and direction of geotechnical services for drilling and laboratory testing, and review of site grading recommendations.
- **Seward Station Repowering, Duke/Fluor Daniel, Indiana County, PA.** Geotechnical services team member for this 520 megawatt waste coal power plant. Geotechnical services for this project included foundation analyses for the power plant and associated structures, a new access roadway with bridge, coal refuse/flyash fill testing, and construction observation of the flyash storage towers. Responsibilities included scheduling and review of laboratory tests, engineering analyses, and geotechnical report preparation.
- **Combined Cycle Facility, Genpower Earleys LLC, Hertford County, NC.** Geotechnical services team member for this proposed power plant. Responsibilities included oversight and coordination of drilling operations including cone penetrometer testing, scheduling and review of laboratory tests, engineering analyses, and geotechnical report preparation.

Professional Affiliations
American Society of Civil Engineers
American Society of Highway Engineers

Certifications
OSHA 40 Hour Hazardous Waste Operations & Emergency Response Training

GREGORY P. LETZO

Project Role
Soil Analysis

Education
Elementary Education, California University of PA, 1991

Professional Experience

Mr. Letzo serves as a Project Manager for L.R. Kimball. His duties include training, supervising, and scheduling geotechnical technicians; and maintaining, updating, and performing calibrations and calibration records of laboratory equipment.

Mr. Letzo has been actively involved in various aspects of laboratory soils testing performed according to industry standards at our AMRL and USACE accredited geotechnical laboratory. These include classification, specific gravity, Proctor, triaxial, California bearing ratio, permeabilities, resistivities, direct shear, consolidations and various other physical testing. He has laboratory concrete experience in measuring and testing compressive strength of cylinders and cubes.

Mr. Letzo also has field experience using the nuclear density gauge, testing compaction of soils using the sand cone method, and testing compaction of aggregates and bituminous concrete. He is experienced in the testing of concrete using the slump cone, air pressure meter, and casting test cylinders and cubes. He has also performed field QA/QC services and has performed as lead quality control field technician on projects.

Project Experience

- **Construction QC Services for Clearfield Lowe's Project, James R. Vannoy & Sons Construction Co., Inc., Clearfield, PA.** Project Manager. Provided quality control services during the construction of Lowe's new store in Clearfield, PA. Services include the testing of soils, concrete, water, and asphalt on-site and in our AMRL accredited laboratory.
- **QA and Testing Services, Wal-Mart Stores, Inc., Morgantown, PA.** Project Manager. Field services performed by our ACI certified and NRC licensed technicians consisted of the testing and documentation of grout, mortar, soil, asphalt, and concrete. Our AMRL and CCRL certified testing laboratory provided testing services on these media also.
- **On-call Drilling Services, Various Locations, Pennsylvania Department of Transportation District 12-0, Uniontown, PA.** Project Manager responsible for the coordination and implementation of all field activities for the supply of a wide range of exploration and instrumentation within PennDOT District 12-0. Duties included standard sampling and rock coring, piezometer and slope indicator installation, pavement and concrete coring, grouting, provision of traffic control protection, and warning devices for operations on roadways.
- **Open-end Contract in Western Bituminous Coal Regions I & II, Pennsylvania Department of Environmental Protection, PA.** Project Manager responsible for the coordination and implementation of all field activities. Project included the provision of both shallow and deep exploration services in conjunction with the Bureau of Abandoned Mine Reclamation, provision of both truck mounted and all-terrain drilling equipment for exploring deep mine subsidence, mine fire delineation, determination of abandoned mine pool levels, installation horizontal drainage piping and control valves, and the design of horizontal mine drainage systems.
- **On-call Drilling and Instrumentation Installations, Daytime and Nighttime Operations, Pennsylvania Turnpike Commission (PTC), PA.** Project Manager responsible for the coordination of all drilling activities associated with drilling and safety on the Turnpike. Project assignments included geotechnical boring, roadway and sub-base probes, slope indicator installation, and provision of traffic control operations for overpasses affected by drilling operations.
- **Mon-Fayette Expressway, Pennsylvania Turnpike Commission, PA.** Project Manager during the construction of the expressway. Duties included observing concrete batch plant and precast concrete operations and control testing of concrete observed and information recorded.
- **Laboratory Testing, Pennsylvania Department of Transportation, District 10-0, Indiana, PA.** Project Manager responsible for performance of laboratory analysis of soil samples. Field duties for the project included water sampling of

potable well sources, obtained samples, labeled, scheduled samples, decontaminated sample equipment, and transported samples to laboratory for analysis.

- **Big Hill/BEMS Landfill, NJDEP, NJ.** Project Manager for construction of geomembrane liner cap for the landfill. Project included installation of methane gas vents along with pipe collection system observed field sampling of geosynthetic materials, performed concrete testing of installation, observed movement of trash material and compaction within exclusion zone, performed compaction of sand subbase and RI-13 protective cover with nuclear density gauge, performed daily calibrations with air monitoring equipment, and obtained water samples from groundwater monitoring wells.
- **Federal Energy Technology Center, U.S. Department of Energy, Pittsburgh, PA.** Project Manager for the performance of laboratory testing on soils and fly ash according to appropriate standards (ASTM, AASHTO, USACE, or PTM) on an on-call basis. Testing included classifications and organic content.
- **Various QC Services, Grannas Brothers Construction, Hollidaysburg, PA.** Project Manager for the QC and laboratory testing services to help control compaction of asphalt placed on various PennDOT and independent jobs. Project included field density testing of soil, stone, and asphalt using nuclear density gauge.
- **Various QC Projects, L.S. Fiore, Inc., PA.** Project Manager for the QC and laboratory testing services for multiple projects for L.S. Fiore across Pennsylvania. Project duties included field density testing using a nuclear density surface gauge, field concrete testing and various laboratory testing of soils.

Continuing Education
Undergraduate Studies, California University of Pennsylvania
1999 Geosynthetics Conference's Geomembrane Testing Short Coarse, Boston, Massachusetts
OSHA 40 Hour Training 29 CFR 1910.120 (e)(8), 1997
OSHA 8 Hour Refresher, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005
Windows 95 Training, 1997
Microsoft Word 7.0 Training, 1997
Microsoft Excel 7.0 Training, 1997
Gundle Lining Systems - Liner Technology and New Techniques in Waste Containment Seminar, 1996
ACI Concrete Grade 1 Field Technician School, 1995
Nuclear Moisture Density Gauge Course, 1994

Professional Affiliations
American Society for Testing & Materials

Certifications
Licensed Nuclear Density Gauge Operator
ACI Grade I Concrete Field Technician
OSHA 40 Hour Hazardous Waste Operations & Emergency Response Training
OSHA Hazardous Waste Site Supervisor