

May 12, 2020

Bid Response
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

Attn: Ms. Tara Lyle, Buyer Supervisor

Re: Expression of Interest for
A/E Design Services and Construction Contract Administration
For the Camp Dawson Pierce Lake Dam Repair Design
Kingwood, West Virginia
Solicitation No. CEOI ADJ20*10

RECEIVED

2020 MAY 13 AM 9:58

WV PURCHASING
DIVISION

Dear Ms. Lyle:

CDI-Infrastructure, LLC dba L.R. Kimball is pleased to submit two (2) copies of our Expression of Interest in response to your request for professional engineering design services to include design, construction drawings, construction specifications, and construction administration for the repair of existing leaks, and to provide a maintenance plan for future use of the Pierce Lake earthen dam at Camp Dawson. This expression of interest addresses the engineering services identified in the request for expression of interest for Architect/Engineering services. L.R. Kimball has extensive experience inspecting, analyzing, designing, obtaining agency approval, preparing construction drawing & specifications, assisting with bidding, providing engineering services during construction, and providing full time construction inspection of similar dam projects.

L.R. Kimball has an experienced project team with sufficient capacity to perform these services in a cost effective and timely manner. The proposal identifies the project team, including key staff resumes, reviews the project goals and objectives, provides our general approach, presents our qualifications and experience, provides the communication plan, and addresses delivering projects on time and within budget.

We understand that firms will be short-listed and interviewed for this project. We would welcome the opportunity to introduce our team and present our experience and capabilities. We understand that a detailed scope and cost proposal will be developed upon selection to provide these services. The project is to be awarded on a fixed fee basis. L.R. Kimball representatives have reviewed the request for proposal thoroughly, and upon selection, requests the opportunity to negotiate mutually agreeable terms and conditions.

We look forward to working with the West Virginia Army National Guard, Construction and Facilities Management Office, Camp Dawson Army Training Site for the Pierce Lake Dam Repair Design. Please contact us if you have any questions or need additional information.

Sincerely,



David G. Minnear, PE
Sr. Project Manager
814.419.7865 Dave.Minnear@lrkimball.com



Richard L. Holes, PE
Director of Aviation & Civil Engineering Services
814.419.7874 Rick.Holes@lrkimball.com

DGM/reb

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Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Expression of Interest
 02 - Architect/Engr

Proc Folder: 720409

Doc Description: Camp Dawson Pierce Lake Dam Repair Design

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2020-04-27	2020-05-14 13:30:00	CEOI 0603 ADJ2000000010	1

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:
 CDI-Infrastructure, LLC dba L.R. Kimball
 Attn: Richard E. Genday, PE, Vice President
 615 West Highland Avenue
 Ebensburg, PA 15931
 814-419-7873

FOR INFORMATION CONTACT THE BUYER

Tara Lyle
 (304) 558-2544
 tara.l.lyle@wv.gov

Signature X

FEIN #

DATE

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

The West Virginia Purchasing Division, for the agency, the West Virginia Army National Guard, Construction and Facilities Management Office, is soliciting Expressions of Interest from qualified firms to provide professional design services to develop construction documents to repair existing leaks and provide a maintenance plan for future use of an earthen dam on Pierce Lake, at Camp Dawson, WV, per the attached documentation.

INVOICE TO		SHIP TO	
DIVISION ENGINEERING & FACILITIES ADJUTANT GENERALS OFFICE 1707 COONSKIN DR		FACILITY MAINTENANCE MANAGER CAMP DAWSON ARMY TRAINING SITE 240 ARMY RD	
CHARLESTON	WV25311	KINGWOOD	WV 26537-1077
US		US	

Line	Comm Ln Desc	Qty	Unit Issue
1	Camp Dawson Pierce Lake Dam Repairs Design		

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description :

Provide professional architectural and engineering design services per the attached documentation.

ADJ2000000010	Document Phase Draft	Document Description Camp Dawson Pierce Lake Dam Repair Design	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

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PROJECT GOALS AND OBJECTIVES

The request for Expression of Interest noted that this project involves the investigation, review of conditions, evaluation, analysis, and design of improvements to Camp Dawson Pierce Lake Dam. Six defined goals/objectives were noted in the solicitation:

Goal/Objective 1: Review existing, available information related to the dam, review the condition of the dam via a visual inspection, obtain operational procedures for the dam, and communicate with the WV Army National Guard, Construction & Facilities Management Office representatives to develop a cost effective and timely plan of action to address the deficiencies of the dam that can be implemented with minimal impact to the ongoing operation of the facility. If existing mapping is available for the facility, it will be utilized to identify existing features and proposed modifications. If no mapping is available, a new map will be developed from available aerial photography and/or field survey, as necessary. The plan may include phases based on a schedule to address funding as well as urgency of addressing deficiencies, with the goal of developing construction bid documents to address the deficiencies.

Goal/Objective 2: After review of the available drawings and other information, L.R. Kimball staff will assess the need to replace the intake control structure at the Pierce Lake Dam. This will include an assessment of the existing structural condition of the control structure, as well as a hydraulic assessment of the capacity of the intake and outlet piping. If appropriate, a new control structure will be analyzed and designed, and associated construction drawings and specifications prepared.

Goal/Objective 3: As part of Objective 1, L.R. Kimball staff will research and investigate the location of possible buried and overhead utilities in the vicinity of the dam and appurtenant facilities. These will be identified on the site map, along with necessary utility relocations, as appropriate.

Goal/Objective 4: Following completion of the initial site visit and collection of available site information, an investigation plan will be developed, identifying geotechnical items of concern requiring further assessment. The L.R. Kimball Geotechnical Division contains all of the drilling and laboratory testing capabilities anticipated to be necessary for this assessment, including geology, testing and engineering services. A series of geotechnical borings are anticipated to be completed at critical locations within the dam embankment, with standpipes installed to identify the static water level within the embankment. Soil samples will be collected for laboratory testing to assess the stability of the dam, and final report will be prepared, including a narrative description and copies of all boring logs and test results.

Goal/Objective 5: The Construction Package, including drawings, cost estimates, specifications and bid documents, will be reviewed with the Construction & Facilities Management Office representatives periodically throughout the design development, with informal and formal submissions at designated intervals. It is understood that some of these submissions will be completed electronically, and some will require face-to-face meetings for presentation, with the final 100% package in both digital and hard copy formats.

Goal/Objective 6: L.R. Kimball will provide Construction support and Contract Administration Services with qualified staff. At this point the level of participation has not been defined, and may be limited to construction bid services, or may be expanded to include oversight of construction to result in a successfully completed project that complies with the design and required functionality and budget.

Approach

This section provides a general plan of approach for the subject project. Coordination with the WV Army National Guard, Construction & Facilities Management Office will be ongoing through the life of the project. Regular coordination meetings will address the progress, seek input and obtain approvals for permit submissions, contracts, pay estimates, etc. throughout the project.

1. Kick-off Meeting

The project manager and key staff will meet with WV Army National Guard, Construction & Facilities Management Office representatives to review the project scope, available funding, communication plan, and obtain available information and mapping related to the Dam.

2. Field View

Key staff of the L.R. Kimball team will perform a field inspection of the dam to become familiar with the condition of the existing facility, topographic conditions, and downstream exposure, and to obtain record information to be used in the design of the proposed improvements. To assist with the field view, site operational staff should be present to assist with access and provide input regarding operations. Photographs will be taken to assist with the design of the proposed improvements.

3. Development of Plan of Action

Initially, L.R. Kimball staff will develop a tabulation of the deficiencies that need to be addressed for the dam. This will be based on the available information, including the operational needs and deficiencies identified during the field view. Additional studies and investigations necessary to further determine the condition of existing facilities will be outlined. These deficiencies and additional studies/investigations will be discussed with WV Army National Guard, Construction & Facilities Management Office

personnel. Based upon the discussion, a draft action plan with budget estimates will be prepared for the dam and presented for review and discussion. Based on the comments, the action plan will be revised and submitted for approval. During this phase, the elements of the work plan will be established (activity, milestone, deliverables). The work plan will identify the duration of each activity and the sequence of activities that will take place to accomplish each of the project tasks.

4. Field Measurement, Mapping, and Surveying

Where required for the design of the proposed improvement, L.R. Kimball surveyors will perform field measurements of facilities. Where topographic mapping is required, mapping will be prepared by either field surveys or photogrammetric methods. The mapping will be prepared in conformance with national mapping standards, and will identify the topographic and planimetric features of the areas in question, as well as the location of other important elements and improvements. If adequate site mapping is available, this will be used as a base, and supplemental information added, as necessary.

5. Engineering Design

A preliminary design will be prepared using the field measurements and available or developed mapping, consisting of the following steps:

Contact local utilities/authorities to identify the locations of their existing facilities
 Obtain property limit mapping information for the Dam. No title search or plotting of deeds will be performed during the preliminary design.

Prepare a preliminary layout of proposed improvements based on the Plan of Action

Develop a preliminary construction cost estimate based on the preliminary layout

The preliminary design will be submitted to the WV Army National Guard, Construction & Facilities Management Office representatives for review and comment.

Final design will be performed based upon the comments received on the preliminary design. The final design will consist of the following steps:

- Incorporate preliminary design comments
- Prepare construction drawings consisting of:
 - Title Sheet
 - General Notes and Legends
 - Plan Sheet(s)
 - Construction Details
 - Erosion and Sedimentation Control Details
- Prepare and submit all applicable permit applications for the water and wastewater facilities improvements.
- Prepare construction technical specifications
- Prepare construction bid package
- Update construction cost estimate
- Coordinate with Utilities



6. Permit Applications

It is anticipated that the following permits/approvals MAY be required for modification of the dam.

Certificate of Approval for the Dam in accordance with the Dam Safety Rule (47CSR34) requirements – In the event that this is required, L.R. Kimball will prepare the application forms for the certification. The application will be submitted to the WV Department of Environmental Protection – Dam Safety for their review and approval. The requested information and supporting engineering computations along with the construction drawings and specifications will be provided.

General WV/NPDES Water Pollution Control Permit for Stormwater Associated with Construction Activities – The design will include the preparation of a sedimentation control plan and construction stormwater pollution prevention plan to meet current requirements. The plans will consist of the narrative report and construction drawings with details and notes.

L.R. Kimball will prepare the applications and provide the necessary supporting documents for the permit application submissions. The permit fees will be the responsibility of the WV Army National Guard, Construction & Facilities Management Office.

7. Easement Plats

It is anticipated that preparation of easement plats will not be required to perform the improvement construction for the dams. However, in the event that this is required, L.R. Kimball surveyors will develop the appropriate easement drawings.

Bidding and Engineering During Construction

1. Bidding and Negotiating Phase

L.R. Kimball will assist the WV Army National Guard, Construction & Facilities Management Office in performing the bidding of the dam embankment and control section improvements. Work during this phase will include:

Assistance with advertising for and obtaining bids

- Attend and prepare minutes for Pre-Bid Conferences with prospective contractors

Assist in receiving and processing requests for Bidding Documents

- Issue addenda, as appropriate, to interpret, clarify, or expand the bidding documents

Attend the Bid Opening, prepare bid tabulation sheets, and assist with evaluating the bids, bonds, and insurance required for awarding the construction contracts

- Issue construction plans and specifications to contractors for bidding.



2. Contract Administration and Construction Inspection

If requested by the owner, L.R. Kimball will provide engineering services during construction, including full-time construction inspection. Construction Phase Services will include:

Attend a Pre-Construction Meeting

Attend and lead Progress Meetings with the contractor

Review shop drawings

Prepare change orders

Review contractor progress payments

Ensure that the project is being completed in general conformance with the intent of the contract documents

Provide monthly project status reports

L.R. Kimball will also conduct a final inspection and prepare a punch list of incomplete work, or work that is not in accordance with the Contract documents

Prepare the Certificate of Completion

Finalize the As-built Drawings

Prepare minutes of meetings

ENGINEERING TEAM



L.R. Kimball has provided comprehensive engineering consulting services for Dam and Water Resource projects for over 50 years. Projects have included geotechnical investigations, dam embankment design and inspections, slope stability analyses, hydrologic/hydraulic analyses, master planning, facilities planning, water treatment/distribution design, construction management, operations services, capital budgets, financial assistance, grantsmanship, emergency action plan development, and environmental studies.

L.R. Kimball prides itself as being a firm that extensively 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. We feel this is even more important when dealing with a new client due to the need to get "up to speed" as quickly as possible. L.R. Kimball proposes a highly qualified project team with extensive experience in the evaluation, planning, study, design, construction, and operation of dams.

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 municipal authorities 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 schedule demands is reflected in the fact that we successfully accomplish hundreds of projects annually, almost all of which are multi-disciplinary.

Team Resources

The strength of any organization is directly proportional to its resources, and our resources consist of our staff and equipment. Our staff has the qualifications, certifications and experience necessary to accomplish the anticipated services within required time and budget constraints.

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. Client needs can be readily accomplished within the capabilities of our proposed project team.

L.R. Kimball's professional qualifications will ensure the WV Army National Guard, Construction & Facilities Management Office appropriate staffing for your projects, including the coordination of multiple disciplines.

Team Personnel and Responsibility

L.R. Kimball proposes a highly qualified staff with extensive experience in the evaluation, planning, study, design, construction, and operation of dams and reservoir facilities for similar projects. Key personnel will be assigned to project teams based on their demonstrated expertise, abilities, and availability.

Full consideration will be given to the type of services required, and each team member's familiarity with the specific aspects of the various projects.

Principal-in-Charge

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. Rick L. Holes, PE, will serve as our Principal-in-Charge for this project. Mr. Holes serves as Director of Aviation & Civil Engineering Services for L.R. Kimball. He has over 30 years of experience with L.R. Kimball, including: civil and stormwater facilities planning and design; surveying; stormwater management; highway design; airport design; environmental; land development; comprehensive planning; and other related projects.

Mr. Holes 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 on time and in budget.

Quality Assurance/Quality Control

Mr. Cameron R. Mock, PE, will serve as the QA/QC director for this project. Mr. Mock has over 42 years of experience in providing consulting engineering services to government and private clients. His expertise is in the areas of water, wastewater, site development, and storm water management. He will provide technical support and perform quality control reviews for this project.

Project Manager/Primary Point of Contact

The Project Manager is responsible for the overall timely execution of the project and is the primary source of contact with the client, including attendance at all scheduled meetings. The Project Manager is also responsible for project planning and scheduling, resource allocation, management and coordination of subconsultants, cost and productivity tracking, man-hour tracking, project documentation, and the quality of service. The Project Manager is responsible for ensuring that all personnel assigned to a project are technically proficient, and informed of all client requirements.



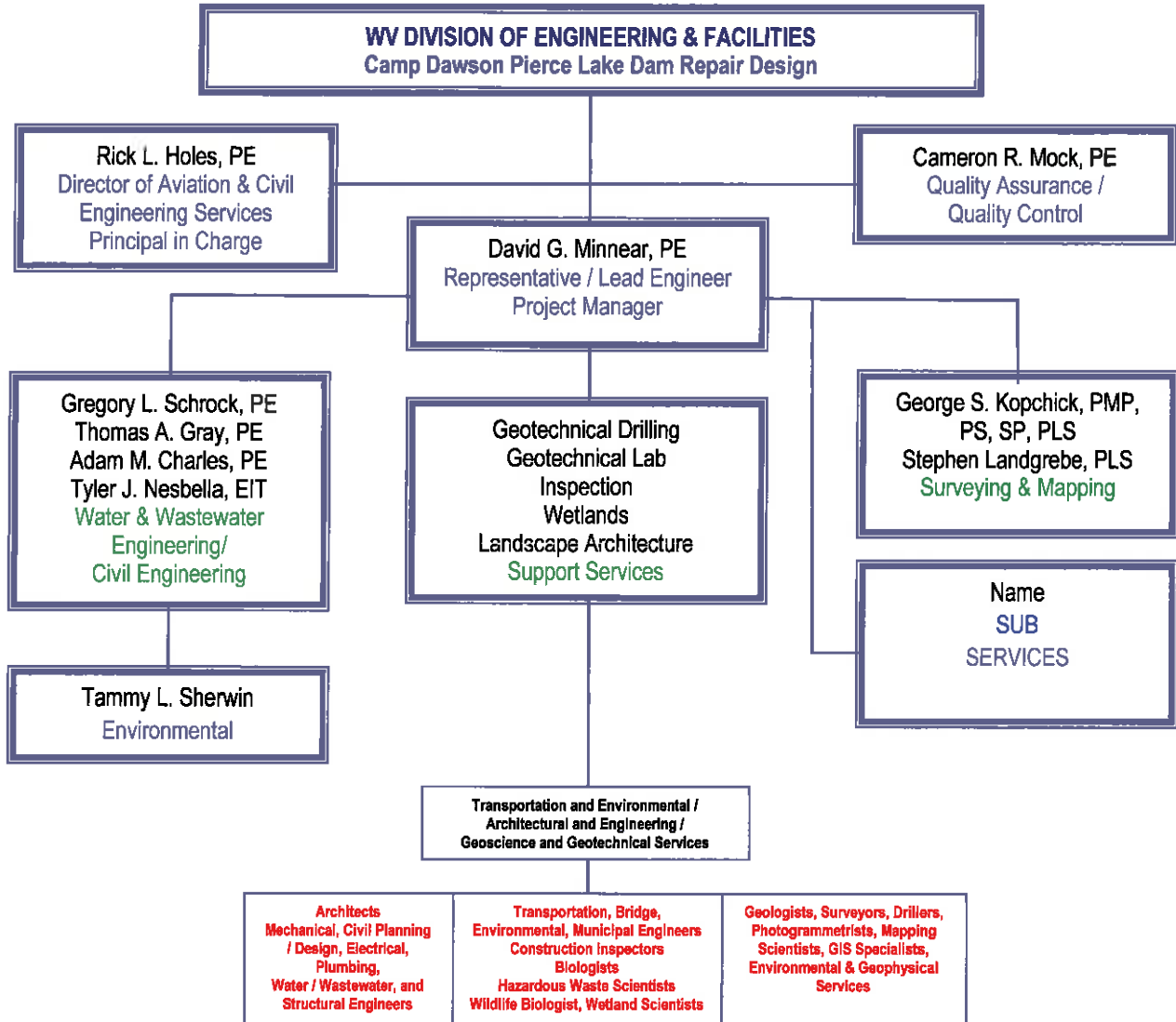
Single point of contact - Mr. David G. Minnear, PE will serve as the Project Manager and primary point of contact for this project. Mr. Minnear is a Senior Project Manager in the Civil Engineering Services. He has extensive experience in the water resources, water systems, dam design and inspection, solid waste design and management, grading, drainage, and erosion and sedimentation control engineering with over 40 years of experience. His office is located at L.R. Kimball's Ebensburg Headquarters at 615 W. Highland Avenue, Ebensburg, PA 15931. His contact information is 814-419-7865 (office), and david.minnear@lrkimball.com (email). He has been responsible for the implementation and construction management for numerous projects at a variety of private and public facilities. He has served as project manager for numerous projects and has assisted with regulatory negotiations.

Lead Dam Safety Engineer

Mr. David G. Minnear, PE will also serve as the Lead Dam Safety Engineer for your project. Mr. Minnear specializes in dams, water resources, and industrial land development projects with over 40 years of experience. He serves as the company's chief hydraulics engineer for projects involving dams, open channel flow, and area-wide stormwater management. 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.

Staffing Plan

Organizational Chart



Resumes



Richard L. Holes, PE

Director of Aviation & Civil Engineering Services

A member of the L.R. Kimball Team for over 30 years, Mr. Holes currently serves as the Director for all Aviation and Civil Engineering Services work at L.R. Kimball. As Director, he is responsible for the day-to-day operations of L.R. Kimball's Airport and Civil Engineering planning, environmental, design, and construction staff, QA/QC, business development, and client coordination.

Additionally, Mr. Holes manages some of our largest Airport Design Projects. Within the past two years alone, he has managed projects on the Doylestown, Quakertown, and Wilkes-Barre/Scranton International Airports in Pennsylvania. Yeager Airport in West Virginia and Ocean City Municipal Airport in New Jersey.

Among the major projects that have been completed under Mr. Holes' supervision in the past five years are as follows:

Role on Project: Principle in Charge

Years of Experience: 30

Education:

BS, Civil Engineering, The Pennsylvania State University, 1989

Registrations:

1997, WV, Professional Engineer

1997, NJ, Professional Engineer

1996, PA, Professional Engineer

1997, VA, Professional Engineer

Affiliations:

American Society of Highway Engineers,
Past President

PA Governors Aviation Advisory Committee
(2013 - Present)

Chairman PennDOT BOA Waiver Review
Committee

Aviation Council of Pennsylvania (ACP),
Board of Directors (2004 - Present)

Aviation Council of Pennsylvania (ACP),
Executive Committee (2008 - Present)

Yeager Airport, Charleston, WV

- Acquire Land in the Runway 5 RPZ, Phase 2 (Acquisition)
- Slope Failure Aide and Program Management
- Acquire Land in the Runway 5 RPZ, Phase 1 (EA)
- Improve Airport Drainage
- Rehabilitate Runway 5-23 Access Taxiways, Phase 1 (Design)
- Pavement Management Survey and Plan Development
- Runway 5 EMAS Evaluation
- Remove Runway 5 Ground Obstruction, Phase 2 (Construction)

Fairmont Municipal Airport, Fairmont, WV

- Construct T-Hangars
- Construct West GA Area
- Construct Parallel Taxiway to the Runway 5 End

Wilkes-Barre/Scranton International Airport, Avoca, PA

- Rehabilitate Taxiways B & D, Design
- Extend Taxiway B to the Runway 22 End (Paving and Lighting)
- Extend Taxiway B to the Runway 22 End (Site Preparation and NAVAIDs)
- Expand and Rehabilitate Fuel Farm
- Extend Taxiway B to the Runway 22 End, Phase I (Design and Permitting)
- EA and Preliminary Design for Taxiway B Extension to the Runway 22 End
- Rehabilitate / Extend Hangar Road
- Rehabilitate/Overlay Runway 4-22

Quakertown Airport, Quakertown, PA

- Rehabilitate Equipment Storage Building
- Acquire Land in the Runway Protection Zone
- Acquire Aerial Easements and Remove Obstructions
- Reconstruct and Widen Taxiway A
- Reconstruct and Relocate Runway 11-29
- Construct New Fuel Farm Area

Doylestown Airport, Doylestown, PA

- Construct Bypass Taxiways and Pave Grass Tiedown
- Acquire Aerial Easements and Remove Obstructions
- Acquire Land in the Runway Protection Zone and Demolish Structures (2 phases)
- Construct Airport-wide Stormwater Management Systems



David G. Minnear, PE
Sr. Project Manager

Role on Project

Primary Representative and Lead Engineer

Years of Experience: 40

Education:

BS, Civil Engineering,
The Pennsylvania State University,
1978

Registrations:

1983, PA, Professional Engineer
2016, KY, Professional Engineer
1997 MD, Professional Engineer
1998, NJ, Professional Engineer
1997, OH, Professional Engineer
1997, VA, Professional Engineer
1985, WV, Professional Engineer

Certifications:

OSHA 40 Hour Hazardous Waste
Operations & Emergency Response
Training
Confined Space Training

Affiliations:

Cambria County Solid Waste Management
Authority
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
Professional Recyclers of
Pennsylvania

Mr. Minnear serves as a Senior Technical Leader/Project Manager specializing in water resources and solid waste for the Aviation & Civil Engineering Division. He has worked on a wide variety of projects; including the design and inspection of dams, permitting/design/construction of potable water and sewage treatment facilities, reclamation of abandoned mine lands and the development of regional stormwater management regulations. Mr. Minnear is responsible for providing technical support and quality assurance to the various on-going civil design projects. In addition, he is responsible for providing design direction and review of various civil projects, including residual landfill disposal sites, municipal landfills, pipeline designs, mine reclamation, and hydraulic projects.

Mr. Minnear serves as the company's chief hydraulics engineer for projects involving dams, open channel flow, and area-wide stormwater management. 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; the assessment of flood protection levees, and the development of area-wide model stormwater management criteria.

Project Experience of Mr. Minnear includes:

Modifications to an Existing Residual Waste Disposal Facility for the Albright Power Station, 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. Development of the site included the detailed design, permitting, construction oversight and certification of 5 permitted stormwater/sediment control dams.

McClintic Dam No 23, WV DNR Wildlife Resources Development, Mason County, WV.

This 11-acre lake is located within the McClintic Wildlife Preserve and includes a perimeter wetland construction intended to mitigate additional wetlands damaged in another portion of the site during a Superfund Cleanup Project. Mr. Minnear was the principal designer involved in the hydrologic / hydraulic evaluations of the site, as well as the preparation of construction and permitting packages.

Annual Dam Inspections, Pittston Coal Group, KY, VA, and WV. Insurance Certification Inspector for 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.

5-Yr Inspections of the Sturgeon Pool Dam, Central Hudson Gas & Electric, NY

Periodic inspections of this 108' high concrete, hydroelectric generating dam, as well as preparation of responses to the NYDEC regarding H&H and stability comments.

Emergency Action Plans, Cambria Somerset Authority (CSA), Cambria and Somerset Counties, PA.

Sr. Hydraulic Engineer for preparation of the Emergency Action Plans updates for the Quemahoning, Wilmore, and Hinckston Run Dams. Oversaw simulation of dam break analyses by computer modeling to determine downstream inundation limits and identified municipalities located downstream of the dams that would be potentially impacted by a catastrophic failure of the dam. These plans included the development of dam breach hydraulic models and flood inundation maps. Prior to computer modeling to simulate a dam failure, physically

surveyed downstream obstructions to determine their effect on the flood wave resulting from the dam break. Based on the determination of the affected downstream municipalities, prepared a step by step procedure to be followed by emergency personnel in the event of such an emergency.

Whitetail Ski Resort, Whitetail Resort c/o Realty Skiing Development, Inc., Mercersburg, PA. Principal Hydraulic Designer for the design and permitting of the 100-million-gallon water supply reservoir at the resort, including the preparation of construction drawings and specifications, as well as permit documents. Also involved in monitoring construction progress and certification of completeness during construction. After completion of construction, annual dam inspections were performed, and the emergency action plans developed.

Engineering Consultant, Cambria Somerset Authority, Cambria County, PA. Project Manager for multiple projects associated with the Authority's numerous assets, including 5 water supply dams and 26 miles of industrial water supply pipelines.

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.

Yellow Creek Watershed, Blacklick Creek Watershed Association, Indiana County, PA. Principal Designer and Project Manager for multiple facilities consisting of separate treatment "modules". Two of these projects incorporated approximately 2.3 acres of mitigation wetlands as final treatment prior to discharge. The funding utilized for these projects was primarily the result of 319 Grants from the Commonwealth of Pennsylvania, along with additional funding from the Heinz Endowment.

Cambria Cogeneration Plant, Air Products & Chemicals, Inc., Ebensburg, PA. Senior Design Engineer and Project Manager for the development of off-site facilities for the plant. This included the siting, design and construction monitoring of the raw water and wastewater pipelines to the plant, and the sewage and potable waterlines serving the plant. This also included coordination of pipeline locations within the easements and hydraulic design of the ductile iron raw water pipeline and the HDPE wastewater pipeline, as well as the sewage and potable lines.

Mount Morris Sewer Authority, Greene County, PA. Project Manager for the bidding and construction oversight of the Mount Morris Sewage Treatment Plant and Sewage Collection System.

Fairview Power Plant, Vinco, PA. Project Manager for the development of a 7.5-mile industrial water delivery line to support cooling operations for the proposed 980 MW gas fired power plant. Project is in progress, but will include a 24" line delivering up to 7 MGD to the site using two pump stations.

Residual Waste Disposal Facility, Allegheny Energy Supply, Monongalia County, WV

Project Design Engineer for this residual waste landfill. Responsible for all aspects of the design of the disposal facility, including site grading plans, sediment pond hydraulics, dam permitting and construction inspection, and development of construction drawings.



Cameron R. Mock, PE

Sr. Project Manager

Mr. Mock serves as a Senior Project Manager for L.R. Kimball's Architecture and Engineering Division. He specializes in water/wastewater, stormwater management and land development projects. Mr. Mock performs a wide range of services related to water systems, wastewater systems, stormwater management, municipal engineering, site development, hydrology, hydraulics, highway design, erosion and sedimentation control, recreation facilities, construction inspection and construction contract management. Project Experience of Mr. Mock's includes:

Dam Experience

- Performed dam safety inspections for earth fill dams.
- Experienced in the design of earth fill and mine waste dams.
- Project Engineer for hydrologic and hydraulic evaluations and geotechnical investigations for earth fill dams to improve safety of existing dams.
- Emergency spillway hydrologic and hydraulic design
- Reservoir safe yield analysis
- Dam breach analysis.

Role on Project

Quality Assurance

Years of Experience: 42

Education:

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

Registrations:

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

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

Dam Design & Evaluation Projects

National Dam Inspection Program, PA and FL, Project Engineer for the field inspection and evaluation of more than 10 earth fill dams.

Emergency Action Plan Updates, Cambria Somerset Authority, Cambria and Somerset Counties, PA. Project Manager for the preparation of updates to the Emergency Action Plans for the Quemahoning, Wilmore, and Hinckston Run Dam. Work included updating the contacts at the emergency and rapid response organizations. The inundation area was reviewed for any significant changes. A new breach analysis was performed for the Quemahoning Dam to address the recent modifications to the Dam and spillway.

Ebensburg Borough, PA - Lower Water Reservoir, Ebensburg, Cambria County, PA. Project engineer for the evaluation and modification of the earth fill dam to correct a critical seepage condition and inadequate spillway. He was responsible for the geotechnical investigation including, drill inspection, development of the testing program, interpretation of data, stability analysis, embankment modification, seepage analysis, internal drains, filter design and instrumentation. The seepage condition and subsequent low stability safety factor was corrected by adding an internal drainage blanket and chimney drain on the existing downstream embankment slope. The embankment was buttressed with a compacted soil fill over the drains and filters that raised the top of dam to increase spillway capacity. Additional spillway capacity was also provided by an auxiliary earthen spillway.

North River Energy Corporation - North River Coal Slurry Dam - North River Mine, Berry, Alabama. Project Engineer for the design of an expansion of the active earth fill slurry impoundment. Project involved raising the top of dam 60 feet by constructing the embankment addition with coarse coal refuse downstream of the existing dam. Work included geotechnical investigation, soils laboratory testing, embankment design, seepage analysis, internal drains, filters, decant system, stability analysis, hydrologic and hydraulic design of emergency spillway and instrumentation. The engineer's design report, construction drawings, and construction specifications were prepared and approved by MSHA. Provided consultation during construction of the dam expansion.

Custom Coals Corporation - Laurel Coal Refuse Disposal Facility, Shade Township, Somerset County, PA. Mr. Mock served as the project manager/engineer for the modification of the existing slurry impoundment. A stability evaluation was conducted to determine if the existing configuration and phreatic level of the refuse pile would meet the appropriate DEP factor of safety. Stability analysis calculations performed on the pile utilized both the Sliding Block and Rotational Equilibrium Methods. Detailed staged operational plans and final design

configuration were prepared for the disposal facility based on plant reject production. The impoundment was to be constructed by the upstream method using the coarse coal refuse for the dam.

Island Creek Coal Company - Pond Fork Slurry Dam, Pond Fork Mine, Bob White, West Virginia. Project Engineer for the design of an emergency spillway required due to insufficient impoundment storage. Work included hydrologic and hydraulic design of the emergency spillway. Hydraulic analysis included a HEC-2 evaluation of the emergency spillway. Construction drawings including plan, profile, typical sections and cross sections. The modification was approved by the MSHA.

J & L Steel Company - Nemacolin Slurry Impoundment, Nemacolin, PA. Project Engineer for the expansion of the slurry impoundment. Work included stability analysis of the embankment modifications, hydrologic and hydraulic design of the emergency spillway and abandonment plan.

Sharples Coal Company - Sharples Slurry Impoundment, Sharples, West Virginia. Project Engineer for the evaluation of an active slurry dam to permit raising the emergency spillway to provide additional slurry storage. Supervised the geotechnical investigation to document the phreatic surface within the embankment. Performed stability analysis to document that the slurry level could be raised and not affect the stability of the embankment. Performed hydrologic and hydraulic design of the emergency spillway overflow weir. Performed annual certification inspections of the facility for MSHA requirements.

Republic Steel Corporation - Compton Fork Dam, Republic Mine, Republic, Kentucky. Project engineer for the raising of the emergency spillway to increase slurry storage capacity. Work included the hydrologic design and hydraulic design of the emergency spillway. To develop spillway capacity, the dam was raised by upstream construction means with coarse coal refuse. Construction plans, specifications and engineer's design report were prepared for approval of MSHA.

Pennsylvania Turnpike Commission - Storm Water Detention Basins, Beaver County, PA. Project Manager/Engineer for the design of 15 stormwater detention basins proposed for two sections of the Beaver Valley Expressway. Hydraulic and routing computations were performed. Basin discharges were routed to downstream structures to ensure that no increase in runoff occurred from the roadway development.

Construction Management

Extensive experience as project manager/engineer bidding of construction contracts, pre-bid meetings, contract awards, pre-construction conferences, project meetings, budget control, schedule management, shop drawing review, construction drawing interpretation, field issue resolution, change order negotiation, construction inspection, supervision of inspectors, construction quantity measurement, contractor estimate review, dispute resolution, construction contract administration, project punch list, project close-out, as-built certification and as-built plans.

**Gregory L. Schrock, PE, CPESC, QPSWPPP***Hydrology/Hydraulics Engineering*

Mr. Schrock serves as a Project Manager for the Civil and Environmental Division. He participates in various aspects of site development and municipal design. On the municipal side, he is involved with the design and analysis of stormwater management facilities, sanitary sewer systems, water distribution systems, waterlines, pumping stations and water treatment systems. As a project engineer/manager, he is responsible for the design, project management, project meetings and coordination, project specifications, client interaction, and permit acquisition for various projects. He is also involved with the design of roadways, parking lots, site layout, and preparation of contract documents, and the development of earthwork takeoff calculations and cost estimates.

Mr. Schrock's stormwater management design experience includes hydrologic and hydraulic analysis, detention basin design, stormwater collection and conveyance system design, preparation of construction drawings, preparation of stormwater management reports including pre and post-development runoff computations, routing of storm flows through proposed detention basins, and basin design computations. He is also involved with the preparation of erosion and sedimentation control plans, including designing the construction documents, preparing applications, letters, erosion and sedimentation control reports, preparing construction sequences, and design computations for each erosion and sedimentation control device utilized.

Role on Project: Hydrology/Hydraulics Engineering

Years of Experience: 24

Education:

BS, Civil Engineering Technology, University of Pittsburgh at Johnstown, 1994

Registrations:

2006, NJ, Professional Engineer

2003, OH, Professional Engineer

1999, PA, Professional Engineer

2006, WV, Professional Engineer

Certifications:

Qualified Preparer of Stormwater Pollution Prevention Plans, No. [REDACTED]

Expires 1/10/19

Certified Professional in Erosion and Sediment Control, No. [REDACTED]

Expires 11/27/17

Affiliations:

National Society of Professional Engineers

American Military Engineers

Project Experience

Water System, St. Francis University, Loretto, PA. Project Manager for the permitting and design of a new 187,000 GPD water treatment plant, water distribution system, and water storage tanks. Duties included the design of 500,000 gallon and 300,000 gallon water storage tanks, site layout for the tanks, water treatment plant, backwash holding tank, water distribution system, and sand mound. Designed the water distribution system using Hydronet for adequate fire protection flow and pressure throughout campus and the surrounding area. Designed treated water booster pumps, a backwash holding tank, greensand and activated carbon units, chlorine booster pumps, chlorinators, flow meters, and associated piping, plumbing, and telemetry for the water treatment plant. Worked on specification preparation, shop drawings, and some construction inspection.

Cherry Run Sewerage System, White Township Municipal Authority, Indiana, PA. Civil Engineer for the design of a sewage pumping station for a 1.0 MGD average sewage flow. Duties included locating the pumping station site, grading plans, preparing erosion control plans, designed six pumps, a communitor, channels, two wet wells, a sluice gate, flow meters, the plumbing, and force main, layout for the floor plans and acquiring the permits. Performed a hydraulic/hydrologic analysis of the nearby stream (3 sq. mi. watershed) to determine the 100-year floodplain and the impact and required permitting needed for the pumping station construction.

Wal-Mart Supercenter, Wal-Mart Stores, Inc., Somerset, PA. Project Manager for a 184,000 SF supercenter development. Duties included overseeing and preparing the due diligence design, permitting, coordinating site design, and overseeing portion of construction.

Richland Town Centre, Wal-Mart Stores, Inc., Johnstown, PA. Project Manager for a 200,000 SF Wal-Mart supercenter and retail strip center development replacing an existing mall. Duties included site design, coordination, permitting, and overseeing portions of construction.

Various Development Projects, ECHO Real Estate Services Company, Various Sites, PA. Project manager for various GetGo Convenience Store/Gas Station/Car Wash developments. Work involved site layouts, due diligence studies, permitting, site design, and coordination, shop drawing review, request for information, and completion inspections.

Lowe's Home Improvement Store, Jemsite Development, LLC, Lawrence Township, PA. Project Manager. Responsible for the site design, grading, stormwater management, erosion and sedimentation control design, utility coordination, permitting and approvals for a approximately 94,000 sf Lowe's. Also oversaw the Phase I Environmental Assessment, geotechnical investigation study, boundary, topographical and utility survey, wetlands assessment, and traffic study.

Site Evaluation Studies, Concept Site Plans and Professional Engineering Services, Wal-Mart Stores, Inc., PA. Project Manager and main point-of-contact for the Wal-Mart/Sam's Club developments. Responsible for the preparation of conceptual site plans for a number of Wal-Mart and Sam's Club locations. Also provided due diligence services for several sites.

Professional Engineering Services for Confidential Site Work at Various Sites, Carter & Burgess, Inc., PA and WV. Project Manager of new distribution centers across Pennsylvania and West Virginia. Duties included preparing permitting reports, endangered species investigations, coordinating geotechnical investigations, surveying services, environmental investigations, and wetland investigations for various parcels up to 400 acres in size.

US Department of the Navy - Northern Division, Lakehurst, NJ. Project Manager for site design of various projects which included a new hazmat building, a racquetball court building, several building additions and a new fire service to the hazmat building. Duties included attending meetings with the Navy, grading, utilities, erosion and sedimentation control plans, site layout and Navy specification editing.

Pleasant Valley Elementary School, Altoona Area School District, Altoona, PA. Project Manager for the permitting and design of a new 62,000 SF elementary school on a 13.6-acre parcel of land. Duties included attending meetings, stormwater management, and design including basin and channel hydraulics and hydrology, grading, utilities, erosion and sedimentation control, site and parking lot layouts, playing field layouts, sewage planning and historical and archaeological investigation. Also designed the vertical and horizontal alignment for a new access road, a subdivision plan, and prepared plats for all right-of-ways.

Hillside Residence Hall, St. Francis College, Loretto, PA. Project Manager for the coordination and design of a new three-story, 46,660 SF residence hall. Duties included site design, grading plans, utility plans, stormwater management, erosion and sedimentation control, and vertical and horizontal alignment of a new access road. Developed site related specifications and developed punch list items during construction.



Thomas A. Gray, PE

Water Engineering Project Engineer

Mr. Gray serves as a Civil Engineer for L.R. Kimball's Architecture and Engineering Division. He has nearly 37 years' experience with a variety of civil engineering services including site development projects, hydraulic analyses of waterways and bridges, flood protection projects, and municipal engineering focused on sanitary sewers. Project Experience of Mr. Gray includes:

Role on Project
Water Engineering

Years of Experience: 37

Education:
BS, Civil Engineering Technology,
University of Pittsburgh at Johnstown,
1982

Registrations:
1986, PA, Professional Engineer
1986, PA, Sewage Enforcement Officer

Certifications:
LEED Accredited Professional

Affiliations:
American Society of Highway
Engineers
Pennsylvania Association of Sewage
Enforcement Officers

Ebensburg Borough Water System Upgrade Project, Ebensburg, PA. Civil Engineer responsible for the design of replacement of water lines, installation of new valves to facilitate greater system isolation control, and installation of new customer water meters with remote read facilities. Duties included cost estimates, acquisition of stream encroachment, and E&S control permitting and specifications.

Fairview Power Plant, Vinco, PA. Project Engineer for the development of a 7.5-mile industrial water delivery line to support cooling operations for the proposed 980 MW gas fired power plant. Project is in progress, but will include a 24" line delivering up to 7 MGD to the site using two pump stations.

Hartslog Court Water Treatment System Evaluation, Porter Township, PA. Civil engineer responsible for evaluation of a groundwater sourced, private water system serving a mobile home park to determine compliance with 4-Log Virus Treatment regulations and develop alternatives to provide the facilities necessary to comply with this requirement. Coordinated system investigation, prepared calculations, conceptual design, summary report, and regulatory response.

Ebensburg Borough, Drought Contingency Plan, Ebensburg, PA. As civil engineer assisted the Borough of Ebensburg in preparing a Drought Contingency Plan for their public water supply system. Analyzed the system water usage, raw water reservoir storage capacities, established action trigger points and the actions to address drought conditions for the water supply. Prepared the plan following PADEP guidance and checklist and submitted to the PADEP for their review and comment.

Hummel Station Power Plant, Shamokin Dam PA. Project Engineer performing various aspects of design for the site development of a gas fired power plant. Services involved water and pressure sewer relocation design to maintain existing industrial facilities while eliminating conflicts with the proposed development.

Johnstown Redevelopment Authority Interceptor Evaluation. Project Engineer responsible for coordinating compliance with Consent Order and Agreement towards eliminating sanitary sewer overflows from the Dornick Point STP's tributary interceptor system and its collection systems that serve 20 municipalities. Services included GIS mapping of the overall system, development of a GIS database for the condition assessments, manhole inspections/surveys; smoke testing, dye testing, and video inspection of interceptor sewers.

City of Johnstown Sanitary Sewer Evaluation. Project Engineer responsible for coordinating I & I investigations of the sanitary sewer system for compliance with a Consent Order and Agreement (CO&A) to eliminate wet weather sanitary sewer overflows. Services included GIS sewer mapping, coordinating manhole inspections, smoke/dye testing of catch basins & private property inflow sources, maintain GIS databases, evaluate findings, and preparation of monthly/quarterly progress reports.

Pegasus Sewer Authority, Johnstown, PA. Project Engineer for the design of a new sanitary sewer collection system expanded to serve existing development served by on-lot sewage systems. System involved over 10 miles of gravity collection system interconnected using five pump stations of varying sizes.



Adam M. Charles, PE
Project Engineer

Mr. Charles recently joined L.R. Kimball's Civil Engineering services team. His experience includes preparation of funding and grant applications, working through loan closings, assistance with preparation and administration of grant/loan programs and interim lines of credit. Preparation of annual reports, permits (including NPDES Permits, Water Quality Management Permits), planning for new sewer installations. Project Management from design through completion including but not limited to: Drawings and Specifications, bidding, award, shop drawing review, pay application review and approval, project close-out, and coordination with project owners and contractors.

Recent projects for which Mr. Charles has worked on prior to joining L.R. Kimball include:

Role on Project: Water Engineering

Years of Experience: 9

Education:

BS, Civil Engineering Technology, University of Pittsburgh at Johnstown, 2010

Registrations:

2015, PA, Professional Engineer

Certifications:

Wastewater Operator, PA, Class A, E; Subclass 1, 2, 3, 4

Confined Space Permit, Required Entry Certified

Johnstown Redevelopment Authority

Master Meter Project (Project Manager/Inspector) – Site improvements to approximately 60 future flow monitoring sites to improve flow characteristics prior to metering.

Clarifier Improvement Project (Assistant Project Manager/Inspector) – Removal and replacement of mechanical equipment in five (5) clarifiers to improve performance and reduce effluent violations.

Regional Flow Monitoring Program (Assistant Project Manager) – Flow monitoring of the Johnstown Regional Sewage system which includes twenty (20) municipalities and approximately 175 flow meters.

Supplemental Sludge Dewatering Equipment Installation Project (Project Manager) – Installation of a sludge dewatering centrifuge, lime/sludge mixing pugmill, new sludge pumps, polymer system and conveyor system to supplement existing belt filter presses.

St. Clair Run Interceptor Relocation (Project Manager) – Design and construction coordination/management for the relocation of two interceptor sewers to accommodate PennDOT culvert replacement.

Johnstown Redevelopment Authority/City of Johnstown,

Hornerstown and Industrial Park Interceptor Rehabilitation Project (Project Manager) – Installation of approximately 7,000 L.F. of interceptor sewer and 14,000 L.F. of collection sewers in the Hornerstown section of the City of Johnstown.

Horner Street to Ohio Street Interceptor Project (Project Manager) – Installation of approximately 11,500 L.F. of interceptor sewer and 11,500 L.F. of collection sewers in the Hornerstown and Moxham sections of the City of Johnstown.

Construction Inspection

Bridge Replacement on S.R. 0281, Confluence, PA (Consultant Inspector TCI-2)

Inspected work performed in the field to ensure that all plans are followed and specifications are met.

Field measure completed items to ensure correct quantities are paid.

Work in Project Field Office with filing, certifications, sources of supply, break sheets, and etc.

Record/Calculate items in concrete and item quantities book.

Perform bimonthly estimates.

Complete daily Project Site Activities (PSA) report using NextGen software.

Tyler Nesbella, EIT
Engineering Technician



Role on Project
Water Engineering

Years of Experience: 3

Education:
BS Civil Engineering Technology, The University of Pittsburgh at Johnstown, 2015

Registrations:
2014, PA, Engineering in Training

Mr. Nesbella serves as an Engineering Technician for L.R. Kimball's Airport and Civil Engineering Division. He has experience with gas line and gas well permitting, erosion and sedimentation control plans, stream crossing permits, drainage design, stormwater management, site development, highway occupancy permit applications, and construction inspection.

Project Experience of Mr. Nesbella includes:

Gallitzin Water Authority, Cambria County, PA. Project Engineer involved with the design and development of construction drawings and specifications for the upgrade to the existing potable water treatment plant.

USJMA – N. Walnut Avenue Sanitary Sewer Replacement, Stoystown, PA. Construction Inspector for the installation of an 8" sanitary sewer and manholes to replace a deteriorated cracked and broken terra cotta sanitary sewer line along N. Walnut Avenue in Stoystown, PA. A portion of the replacement was by slip lining methods. He was responsible to observe that the construction was performed in accordance with the construction drawings, construction specifications and approved shop drawings. Daily report of activities and construction quantities plus photographs were prepared to document construction progress. Contractors estimates were reviewed for conformance with actual measured quantities.

USJMA – Oven Run Sanitary Sewer Relocation, Shade Township, Somerset County, PA. Construction Inspector for the relocation of an 8" sanitary sewer and manholes to eliminate a damaged sanitary sewer stream crossing. He was responsible to observe and document that the construction was performed in accordance with the construction drawings, construction specifications and approved shop drawings. Daily reports and photographs were prepared to document construction progress. Contractors estimates were reviewed for conformance with actual measured quantities.

Peoples Natural Gas – Various Projects. Project coordinator for the design and permitting of replacement and extensions of natural gas pipelines within their gas distribution system. He was responsible for preparation and review of gas line layouts, material requirements, permit applications, utility coordination, municipal and highway department coordination for construction within their public right-of-ways. Permits included erosion and sedimentation control permits, stream crossing permits, highway occupancy permits, and local roadway opening permits.

Various Gas Well Companies. Developed contour grading plans for the well pads and design of access roadways to the well pads. Performed drainage design, stormwater management design, erosion and sedimentation control plans including sedimentary ponds. Layout of temporary waterlines for fracking well sites. Prepared permit applications for well pads, stream crossing, highway occupancy permits and municipal roadway permits.



Tammy L. Sherwin,
Environmental Studies

Ms. Sherwin is an environmental scientist responsible for developing NEPA documentation, including Categorical Exclusion Evaluations (CEE), Environmental Assessments (EA), Environmental Impact Statements (EIS), and Section 4(f) Evaluations. She is also responsible for the following types of studies needed to develop the NEPA documentation: wetland delineations, surface water studies, habitat assessments (terrestrial and aquatic), Section 7 consultation, farmland evaluations, floodplain identification, land use studies, and socioeconomic evaluations. Ms. Sherwin also prepares the applicable permit packages and coordinates agency meetings for each project.

Her public involvement experience includes the creation of project newsletter mailing lists, preparation of project newsletters, organization of public meeting agendas and places of meeting, creation of public meeting displays and surveys, presentation of project materials to the public, and preparation of public meeting response summaries. Ms. Sherwin has also coordinated with Community Advisory Committees (CAC) and conducted Consulting Parties Meetings.

Ms. Sherwin's project experience includes:

PennDOT District 12-0, S.R. 0519, Washington County, Pennsylvania - Responsible for preparation of a CEE and the necessary supporting studies (i.e. wetlands, streams, T&E, etc...) using the CE Expert System, as well as, a Section 404/Chapter 105 permit using the online JPA2 Expert System for the project.

PennDOT District 5-0, SR 0831 Section 07S – Schaefferstown Road Intersection, Berks County – Responsible for the oversight of the environmental components of the project including: wetland and surface water identification and delineation studies, Phase I and II ESAs, threatened and endangered species coordination, NHPA Section 106 clearance, Section 4(f) evaluation, water permitting, mitigation and CEE preparation.

PennDOT District 9-0, US 219 Improvement Project Meyersdale to Somerset, Pennsylvania – Conducted wetland functional assessments and assisted with the EIS re-evaluation including the cultural resource and Section 4(f) sections. Prepared the secondary and cumulative impacts assessment and compensatory mitigation plan.

PennDOT District 1-0, E01397, Crawford, Mercer, Venango and Warren Counties, Pennsylvania - Responsible for the coordination and preparation of six DEP general permit 11's for maintenance, testing, repair, rehabilitation, or replacement of water obstructions and encroachments for structure replacements across four counties. All permits were prepared utilizing the online JPA2 Expert System.

Greene Township, Kane Hill Road Bridge Replacement Project, Erie County – Responsible for the oversight of the environmental components of the bridge rehabilitation project including: wetland and stream delineation, and CEE Level 1B preparation. Prepared DEP general permit 11 for the project.

PennDOT District 4-0, Sections 450 and 495, Pike County – Responsible for the NEPA clearance (CEE) and the subsequent studies required (Wetlands, Streams, T&E, Section 4(f), etc...), as well as, the Section 404 / Chapter 105 permitting of waterway impacts.

PennDOT District 11-0, McLaughlin Run and Tank Farm Bridge Replacements, Allegheny and Beaver Counties - Prepared DEP General Permit 11 for Maintenance, Testing, Repair, Rehabilitation, or Replacement of Water Obstructions and Encroachments using the online JPA2 Expert System and prepared CEE's for the McLaughlin Run and Tank Farm Bridge replacement projects.

Role on Project: Environmental

Years of Experience: 21

Education:

BS, Biology, Indiana University of Pennsylvania, 1993

Affiliations:

Pennsylvania Association of Environmental Professionals (PAEP) - Board of Directors 06 & 07, Office of Secretary

PennDOT District 9-0, SR 4009 (Business Route 220) Bedford Springs Improvement Project, Bedford, Pennsylvania – Prepared the Level 2 CE and Individual Section 4(f) Evaluation for Transportation Projects that have Net Benefit for the roadway improvement project. This Section 4(f) evaluation was the first prepared for net benefit use in Pennsylvania.

Redevelopment Authority of Allegheny County, Carrie Furnace Access Road, Pittsburgh, Pennsylvania – Responsible for the preparation of the Categorical Exclusion Evaluation for the access road project into the Carrie Furnace Site. This project utilized funds from the TIGER III Grant.

Allegheny Tunnel Transportation Improvement Project, Pennsylvania Turnpike Commission, Bedford and Somerset Counties, Pennsylvania – Principal environmental scientist responsible for data collection, field investigations, public involvement coordination, agency meetings and report documentation. Examples of field investigations include wetland delineation, macroinvertebrate sampling, PAMHEP, and reptile and amphibian survey. Responsible for preparing the state equivalent to an EA. Public involvement responsibilities included creation and maintenance of mailing list, preparation of project newsletter, development of displays and project meeting surveys, presentations of project material, and preparation of summary of responses. She also maintained the CAC mailing list, prepared materials for the meetings and acted as the contact for CAC inquiries.

City of Erie, McBride Viaduct Feasibility Study, Erie, Pennsylvania – Responsible for the oversight of the environmental components of the project including: field studies, Phase I ESA, threatened and endangered species coordination, NHPA Section 106 clearance, Section 4(f) evaluation and CEE preparation. Prepared the Environmental Justice Analysis report and CEE for the project.

PennDOT District 10-0, Brookville 2nd Street Bridge – Responsible for the oversight of the environmental components of the bridge rehabilitation project including: wetland and stream delineation, Phase I ESA, and BRPA preparation



George S. Kopchik, PMP, PS, SP, PLS

Surveys & Mapping Manager

Role on Project: Manager, Geospatial Services

Years of Experience: 31

Education:

Associate, Computer Aided Drafting and Design, Pittsburgh Technical Institute, 1984

Registrations:

1999, NC, Professional Land Surveyor
2003, SC, Professional Land Surveyor
2010, VA, Surveyor Photogrammetrist

Certifications:

- Project Management Professional,
██████████ 4/10/18

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 29 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 a Senior Project Manager while also serving as the Manager of Geospatial Services. 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.

Mr. Kopchik is experienced in managing the geospatial components of aviation related projects that require AGIS program specifications in accordance with Advisory Circulars 150/5300 -16A, -17C, and -18B.

Recent projects for which Mr. Kopchik has worked on include:

Cambria County Final Design, SR 0022, Section 005, PADEP. PM for aerial photography, surveying and mapping activities in support of the engineering necessary for improvements to the existing 2-3 lane section to 4-5 lanes with realignment where necessary.

2014 - Washington County Airport Authority; Washington County, PA. Project manager overseeing all surveying and mapping related efforts for the obstruction mapping and analysis project. Mr. Kopchik and his team were responsible for coordination and completion of the color aerial photography and ground surveys and also for completion of photogrammetric mapping, orthophotography, and OBS/AAA surveys in accordance with FAA Advisory Circulars 150/5300-16A, 17C, and 18B.

2013 - Somerset County Airport, Somerset, PA - AGIS Update Airport Master Plan. Project manager overseeing all surveying and mapping related efforts necessary to provide the airport with an updated master plan. Mr. Kopchik and his team were responsible for coordination and completion of the color aerial photography and ground surveys and photogrammetric mapping in accordance with FAA Advisory Circulars 150/5300-16A, 17C, and 18B.

2013 - John Murtha-Johnstown Cambria County Airport, Johnstown, PA. Taxiway B As-Built Survey - Project manager overseeing all surveying related efforts necessary to provide the airport with an as-built of the Taxiway B Lighting Improvements. Mr. Kopchik and his team were responsible for coordination and completion ground surveys and accordance with FAA Advisory Circular 150/5300 - 18B.

2005-2010. Project Manager for 62 projects over a five period providing the PADEP with photo control, general surveying services, and photogrammetric planimetric/topographic mapping used for remediation engineering of AMD sites. Aerial photography used for mapping was acquired by the PADOT.



Stephen Landgrebe, PLS

Survey Party Chief

Mr. Landgrebe serves as a Senior Survey Party Chief with nearly 30 years of experience. He has been responsible for various aspects of survey field work, data reduction, and production of the required survey deliverables. His years of experience include horizontal and vertical control networks, geometry, boundary and ALTA/ACSM surveys, right of way surveys, erosion and sedimentation control relating to stakeout of silt fence, etc. along with utility surveying and construction inspection. Since joining L.R. Kimball, Mr. Landgrebe has gained valuable knowledge in various phases of surveying relating to architectural, civil design, photogrammetric mapping, stockpile volumes, and GIS projects.

Recent projects for which Mr. Landgrebe has worked on include:

Role on Project: Survey Party Chief

Years of Experience: 30

Education:

Associate, Surveying, Paul Smith's College of Arts and Sciences, 1987

Registrations:

2016, WV, Professional Land Surveyor
 1995, NY, Professional Land Surveyor
 2013, PA, Professional Land Surveyor
 2009, TN, Professional Land Surveyor

Affiliations:

Former member of the New York Association of Professional Land Surveyors
 Former member of the Town of Palmyra Planning Board

Certifications:

HAZWOPER (40 hour)

Armstrong School District, New Junior-Senior High School, Armstrong County, PA. Geotechnical Boring Stakeout, Survey Field Verification, and Subdivision Corner Monumentation.

Lehigh Northampton Airport Authority - 2012 Queen City AGIS Mapping (ALP Update, Obstruction Mapping & Removal). Horizontal and vertical ground control network, runway centerline and profile surveys, planimetric detail surveying and field verification was completed in accordance with the current FAA AC150-5300 -18B Airport GIS specifications).

Peoples Natural Gas - Pipeline Replacement for Western PA. Detail planimetric feature surveying was performed for the replacement of existing gas mains within various locations.

Wal-Mart - Kilbuck Wal-Mart Engineering Services, Allegheny County, PA. Performed field survey monitoring of numerous monuments throughout the site and processed GPS data collected to be updated in the monitoring report spreadsheets.

Williamsport Regional Airport - 2012 Conduct Environmental Assessment for Runway 9-27 Approach Improvements. Horizontal and Vertical Ground Control network, runway centerline and profile surveys, planimetric detail surveying and field verification was completed in accordance with the current FAA AC150-5300 -18B Airport GIS.

Sports and Exhibition Authority, City of Pittsburgh, PA. Performed as-built survey of the proposed new road rights-of-way for Chuck Noll Way locating curbs, sidewalks and visible utilities to be included in production of survey plat and legal description

QUALIFICATIONS AND EXPERIENCE WITH PROJECT EXAMPLES

Dam Project Experience

Consulting Engineering Services, Cambria Somerset Authority



Contact: Mr. Earl Waddell, PE (814) 532-8851

Engineer of Record for Consulting Engineering Services

For the past 13 years, L.R. Kimball has provided annual general professional services as required for the Cambria Somerset Authority, for not only the 5 dams, but also the many miles of water supply pipelines owned and operated by the Authority. In addition, L.R. Kimball was involved in several special projects, including the preparation of NPDES permit applications and the design of conservation releases at the Wilmore, Quemahoning, Hinckston, South Fork, and Border Dams.

L.R. Kimball was retained by the Manufacturer's Water Company, and later by The Cambria Somerset Authority, to develop emergency action plans for the Hinckston, Quemahoning, and Wilmore Dams as required by the Pennsylvania Department of Environmental Protection (DEP) and the Pennsylvania Emergency Management Agency (PEMA).

Emergency Action Plans were required to be prepared by the dam's owner in order to pre-plan the coordination of necessary actions by the dam owner and the responsible local, state and federal emergency organizations for timely notification of a warning and evacuation in the event of an emergency at the dam. As the owner of the Hinckston, Quemahoning, and Wilmore Dams, Cambria Somerset Authority retained L.R. Kimball to simulate dam break analyses by computer modeling to determine downstream inundation limits and identify those municipalities located downstream of the dam that would be potentially impacted by a catastrophic failure of the dam. Prior to computer modeling to simulate a dam failure, L.R. Kimball personnel physically assessed downstream obstructions to determine their effect on the flood wave resulting from the dam break. Based on the determination of the affected downstream municipalities, L.R. Kimball project personnel prepared a step by step procedure to be followed by emergency personnel in such an event. Upon review and approval by the



DEP and PEMA, all emergency response team leaders including DEP and PEMA were required to sign the plan indicating concurrence in the event of an emergency. Copies of the signed plans were distributed to emergency response agencies.

L.R. Kimball prepared updates to the Emergency Action Plans for the Quemahoning, Wilmore, and Hinckston Run Dams. Work included updating the contacts at the emergency and rapid response organizations and review of the inundation area for any significant changes. A new breach analysis was performed for the Quemahoning Dam to address the recent modifications to the Dam and spillway. L.R. Kimball provided the preparation and assembly of the final documents.

L.R. Kimball personnel have provided the following services:

- Concrete rehabilitation inspection (for Quemahoning spillway)
- Stream bank erosion studies (for Que outlet channel and entrance road to Wilmore Dam)
- Material quantities and cost estimates (several projects)
- Field observations and site inspections (inspection of 3 dams plus site-specific inspections)
- Literature searches (for all 5 dams, each up to 100 years old)
- E&S control plans (for Wilmore Dam entrance road project & Wilmore conservation release)
- NPDES application (for conservation release in Minersville)
- Design of processes for discharge compliance (design of conservation releases for 5 locations)
- Studies and documentation to comply with Federal environmental and cultural resource issues (Wilmore Dam access road)
- Surface water sampling and analytical testing (Minersville conservation release)
- Hazardous, toxic & radioactive waste (HTRW) studies (Que and Hinckston intake lead paint investigations)
- Conducting studies and developing reports pertaining to flood control (EAP and breach analyses for 3 dams)
- Ecosystem restoration (access road to Wilmore Dam)
- Risk assessments





Design of 5 Dams for stormwater/Sedimentation Control, Albright Power Station Ash Disposal Site, Albright, WV

Project Manager: David Minnear, PE

L.R. Kimball prepared the design of the Ash Disposal Facility used by the Albright Power Station, in Preston County, WV. This involved the siting, geotechnical investigation, disposal site design, and design and permitting of 5 dams used for control of stormwater and sedimentation from the disposal facility. L.R.K. provided construction oversight and PE certification of the final construction for the dams.

Annual Dam Inspections, Claysville Donegal Joint Municipal Authority, PA

Contact: Peggy Hickman (724) 663-7770

L.R. Kimball provided annual Dam Safety Inspections for the School Street and the Jack Clutter Dams. Both of these structures required detailed inspection, followed by breach analyses conducted under a variety of potential failure modes (with and without breach, sunny day breach, and with and without downstream storage included in the model). Following completion of the breach analyses and coordination/acceptance by the PADEP, inundation maps were prepared for inclusion in the updated Emergency Action Plans.

Five-Year Safety Inspections, Central Hudson Gas & Electric Corporation, Sturgeon Pool Dam, Ulster County, NY



Contact: Mr. Mike Hogan (845) 883-3337

L.R. Kimball performed the Five-Year Safety Inspections for this 15 mw Hydroelectric Generating Facility Dam, which is classified as a High Hazard Potential Dam due to downstream concerns. The structure is a concrete gravity dam (maximum height of 108.5 feet) consisting of a central overflow (ogee) crest, a non-overflow bulkhead on the right abutment, and a penstock intake and high-level overflow on the left abutment. Although the structure does not fall under the licensing criteria established by the Federal Energy Regulatory Commission (FERC), the inspection and report were prepared similar to the provisions of 18 CFR Part 12 (Subpart D), so as to conform to the licensing standards. As a

result of previous inspections, L.R. Kimball recommended that additional studies be completed to investigate and document the stability of the dam. Stability concerns at the structure included the stability of concrete ogee spillway and abutment contact slopes.

A subconsultant drilling company completed exploratory borings into bedrock at the project site to investigate and document the condition of the dam, foundation and interface between the dam and bedrock. Monitoring instrumentation included two vibrating wire piezometers which were installed into the bedrock to measure the pore pressures within the rock mass.



Data was collected and analyzed from the piezometers for a period of one year to determine uplift pressures for use in the stability analysis of the dam. Based on the results of the drilling testing and piezometers, the stability of the dam was analyzed using a FEM. The project involved drilling two borings through the concrete dam and into the underlying bedrock. The drill rig was set up in the lower gallery of the dam, which is 6 feet wide by 8 feet high. The rig was a small electric drill and was partially disassembled and taken into the gallery via an outside door on the spillway. The borings were drilled to an approximate depth of 40 feet, and vibrating wire piezometers were installed in the borings and connected to a remote sensing unit to determine pore pressures in the underlying bedrock. Rock core samples obtained during drilling were tested to determine engineering parameters of the

concrete/rock interface. Data obtained from the lab testing and piezometers was used to model the dam for stability.

L.R. Kimball was also involved in the preparation of responses to a comment letter issued in October of 2001 by the NYSDEC regarding a proposed plan to replace the existing pool-adjusting flashboards with an inflatable rubber dam. The comments required an evaluation of the probable impact of the inflatable rubber dam on the performance of the dam under regulatory hydrologic conditions. These conditions had previously been evaluated by CT Main in 1978, using the existing flashboard alignment and hydrologic data obtained from local stream and rainfall gages. The rainfall values were updated to reflect HMR51 values, and the analysis revealed that there would be minimal change in the hydrologic/hydraulic performance of the structure with the inflatable rubber dam. In addition, it was found that what changes were anticipated would be positive (i.e., the operators would have significantly more control over pre-storm conditions, and maintenance costs would be reduced).

Safety Inspection, Central Hudson Gas & Electric Corporation, High Falls Dam, Ulster County, NY



Contact: Mr. Mike Hogan (845) 883-3337

In 2010, Central Hudson Gas and Electric Corporation (CHG&E) retained L.R. Kimball to perform a safety inspection and report for the High Falls Hydroelectric Dam. The inspection and report were performed similar to the provision of 18 CFR Part 12 (Subpart D), applicable to the Federal Energy Regulatory Commission (FERC) license requirements, although the FERC does not license the High Falls Dam.

Staff members of L.R. Kimball conducted an inspection of the High Falls Dam to assess the condition of the dam with respect to overall safety. The Dam is located on Rondout Creek, near the village of High Falls, in Ulster County, NY, and is classified as an intermediate hazard potential dam, operated and utilized for hydropower generation. The

power station can produce 3 megawatts through a single turbine.

The dam is located at the site of a natural waterfall. The first hydroelectric facility was constructed on this site in 1909 and 1910, generating approximately 1 megawatt through two generating units. A third generating unit was added in 1926, raising the capacity to approximately two megawatts. This facility was closed in 1972 due to unfavorable economic conditions, but reopened in 1983 when the price of electricity began to climb. However, the dam had not been inspected since reinstatement.

L.R. Kimball staff provided a post-inspection report that discussed the hydrologic/hydraulic capacity of the structure, stability of the structure under various flood conditions, current operating procedures and recommendations for future maintenance and operations changes

Due Diligence Evaluation, Central Hudson Gas & Electric Corporation, Bangor Hydro Dam Reviews, Bangor ME



Contact: Mr. Mike Hogan (845) 883-3337

L.R. Kimball performed a due diligence evaluation of a series of hydroelectric generating dams to be sold by the Bangor Hydro Electric Corporation in Bangor, Maine. Our engineers and geologists conducted a literature search of available information regarding the design and subsequent repairs, previous inspection reports, various permitting issues, and operations and maintenance of the dams and hydroelectric facilities. Following the literature search, each facility was visited to assess the existing condition of the structures relative to safety, integrity, and operations. L.R. Kimball also reviewed the status of the FERC license and potential for renewal for each of these low-head, run-of-river dams.

For most of the structures, a major issue was the necessity for installation of fish ladders to permit migration of salmon, eels, and shad to upstream areas owned by a local Indian reservation. This issue, along with the relatively low production capability and extreme age of the structures (many of which were constructed at the turn of the century for logging and paper-making purposes), made some of the structures unattractive for acquisition. However, several of the others were state-of-the-art dams with impressive production capability, and as the owner desired to sell the entire system as one package, a detailed evaluation of each structure was vital to Central Hudson. Following completion of the literature search and individual structure site visits, a detailed report was prepared discussing the advantages and disadvantages of each facility, and this report was utilized by Central Hudson to establish a bid price for the facilities.



Dam Safety Inspections, PPL Generation, LLC, Various Locations, PA



Contact: Mr. John Cincilla (610) 774-5896

L.R. Kimball performed dam safety inspections for PPL Generation, LLC for 11 dams at seven different facilities in their eastern Pennsylvania locations, extending as far south as Lancaster and north to Lackawanna Counties, and from Pike County in the east to Snyder County in the west. These inspections included communication with PPL staff regarding site maintenance and operation, detailed inspection of the dam embankment and hydraulic structures for potential problems, follow-up communication with PPL staff regarding issues that were noted during the inspections, and the preparation of summary reports with attached photographs documenting observations and recommendations.

Dam Safety Inspections, Grace Mill Tailings and Millwater Dams, New Morgan Borough, Berks County, PA



Contact: Mr. Rob Raquet (610) 913-7516

Since the early 1990's, L.R. Kimball has been involved with a variety of site owner/developers to complete a variety of projects required for continued permit compliance and operation of the two dams located on the Morgantown Properties site. These projects included quarterly and annual dam inspections for the Grace Mine Tailings Dam and Millwater Dam, updating the emergency action plans (EAP) and preparing breach analyses and inundation maps for both dams, and an analysis and conceptual design of the Gate Structure modifications for the Millwater Dam.



The Grace Mine Dam is a tailings impoundment developed throughout the 1960's - 70's by Bethlehem Mines Corp., for their onsite iron mine. The tailings operations were completed in the mid-1970's, and the lake has been the focus of multiple conceptual site development plans since then, including those for an industrial park, residential housing, a hotel/resort area, one or more golf courses, and a recreational/camping area. The current development plans have been tentatively placed on hold pending completion of environmental investigations of the tailings material and satisfaction of EPA and PADEP permit requirements.

Annual Dam Inspections, RNS Services, Inc., Freshwater Impoundment at Oneida Dilltown Facility, Dilltown, Indiana County, PA



Contact: Mr. Rusty Taylor (570) 638-0219

The Custom Coals Dilltown Facility had been closed for several years; however, they maintained a PADEP Dam Safety Permit for the operation of the Freshwater Impoundment, and MSHA permits for the operation of two small mining related ponds. The Freshwater Impoundment required an annual inspection, which L.R. Kimball had performed for many years. When purchased by RNS Services, L.R. Kimball approached MSHA and PADEP to discuss the two mine treatment ponds, with the object of declaring the ponds "abandoned without precluding the impoundment of water," so that the MSHA permits could be waived and no future inspections

required. Letter reports were prepared to both the PADEP and MSHA.

The Emergency Action Plan for the Freshwater Impoundment was also prepared and submitted to DEP, along with an inundation map indicating those portions of the downstream areas that would be potentially impacted in the event of a failure of the dam.

Annual Dam Inspections, Gene Pluto, Breskin Dam, Ligonier Township, Westmoreland County, PA

Contact: Mr. Gene Pluto (412) 837-5899



L.R. Kimball has performed the annual dam inspections for the Breskin Dam in Ligonier Twp, Westmoreland County from 1994 through 2010. The 2011 annual dam inspection is scheduled for later this year. Inspection reports are submitted to the Pennsylvania Department of Environmental Protection to meet the regulatory requirements for a dam inspection prior to the end of each year.

L.R. Kimball also prepared the Emergency Action Plan and Inundation Map for the Breskin Dam in 1997, and in 2004 updated the maps to make them consistent with current EAP standards.

Water Pipeline Project Experience

The Redevelopment Authority of Allegheny County

Contact: Ms. Erin Deasy – Project Manager (412) 350-3586

Carrie Furnace Redevelopment Project – Waterline Loop, Rankin Borough, Allegheny County, PA

Project Manager: Cameron R. Mock, PE

L.R. Kimball prepared the design of an approximate 4,400 lf 10" ductile iron waterline loop to connect to the Wilkinsburg-Penn Joint Water Authority to provide potable water service to the brown field Carrie Furnace site for future light industrial/commercial redevelopment. Services provided included surveying, preliminary design, final design, construction drawings, construction specifications, bid package, two railroad crossing permits, NPDES permit for discharges from construction activities, easement plats, and coordination with Wilkinsburg-Penn Joint Water Authority. Construction is to be performed during 2019 construction season.



Competitive Power Ventures (CPV)

Contact: Mr. Mike Resca (781) 848-5692

Fairview Power Plant – Water Supply Pipeline, Jackson Township, Cambria County, PA

Project Manager: David G. Minnear, PE

CPV has prepared the 980 MW natural gas fired Fairview Power Plant near Vinco, PA. To provide up to 7 MGD of cooling water, a 7.5-mile 24" industrial water line and two pump stations were constructed to deliver the water from the Cambria Somerset Authority system in Johnstown, PA. The project also included a 12" return line for the discharge of blowdown water from the power plant. Services included coordination with CPV and Cambria Somerset Authority to determine the required plant needs and determine the available capacity of the Cambria Somerset Authority. Surveying, mapping, preliminary design, final design, permit applications, permit drawings, construction inspection, construction oversight was performed for the two pipelines and two pump stations. L.R. Kimball was also involved with the development of a complex SCADA system to coordinate the communication of flows from a reservoir located 20 miles from the Power Plant, through multiple pump stations.



Pennsylvania Department of Transportation – District 9

Contact: Jaclyn Himmelwright – Project Manager (814) 696-7171

SR0036 Section 07S Roadway Improvement Project – Waterline Relocation, Bedford County, PA

Project Manager: Cameron R. Mock, PE

The roadway improvement project resulted in the need for the relocation of water distribution lines for the Waterside-Loysburg Water Supply water system. L.R. Kimball coordinated with the roadway design engineer to identify where relocation of the waterline would be required at a bridge, intersection improvement and roadway widening. Services included preliminary design, final design, coordination with the water authority, construction drawings, construction specifications, and shop drawing reviews. The project involved a highway occupancy permit and a stream crossing permit.

COMMUNICATION PLAN

L.R. Kimball's project management structure is based upon a model that utilizes a strong Project Manager as the initial point-of-contact for our clients. Accordingly, David G. Minnear, PE, will serve as L.R. Kimball's Project/Program Manager for this project. He will report internally, directly to the Quality Assurance/Quality Control Manager and Principal-in-Charge for this project. Mr. Minnear has managed a broad range of projects throughout his career that have varied greatly in size and scope and involved new construction as well as rehabilitation and additions to existing facilities. Mr. Minnear's project design, production, and management experience includes a wide range of products and he has developed a strong reputation for delivering multiple projects on time and within budget.

L.R. Kimball's project management will include strong and continuous communication with your staff as well as copious record keeping for the project. This project will be assigned an internal project number for clarity of record keeping and tracking through our project management procedures, which focus on three key areas: Schedule Control, Cost Control, and Quality Control. L.R. Kimball's experience and our procedures pertaining to these three key components of project management are described in detail on the following pages.

The communications plan will be reviewed at the initial kick-off meeting. The WV Army National Guard, Construction & Facilities Management Office primary contact and other State team members will be identified, as well as L.R. Kimball team members involved in the project. All communications will be provided electronically to include the entire team. Tools such as email, NewForma, Skype meetings, and conference calls will be used to assist with the distribution and communications for the project. When appropriate and/or requested, hard copies will be provided. L.R. Kimball will prepare and distribute meeting notes to document discussions and decisions made.

Monthly written progress reports will be provided, that will summarize what was completed, planned actions for the next month and a review of the schedule. Any issues or concerns will be identified. The report will be provided monthly to the project team based on the date selected by the client for reporting.

DELIVERING PROJECTS ON TIME AND WITHIN BUDGET

Schedule Control

The project schedule will begin with the preparation of a Project Scope and Schedule Description. The challenge in controlling any project's schedule is the early clarification and identification of program, scope, and approach at the outset of the project, with coordination of all parties involved. The project schedule is viewed by L.R. Kimball as critical to the development of any project and will be discussed immediately with your staff. Specific discussion regarding the project timetable will occur at the Kick-Off Meeting.

As the project develops, it will then be our responsibility to help coordinate all communications with you and all members of the project team, to ensure that the schedule is completely understood in terms of its impact on all approval processes and construction start. L.R. Kimball has developed a day-by-day scheduling process in which each approval meeting, deadline, milestone, design meeting, and other appropriate scheduling component is identified.

L.R. Kimball will arrive at the "kick-off" meeting with all of this information preliminarily identified and documented. As part of the kick-off meeting, we will work to solidify these requirements and dates. In addition, to facilitate communications, L.R. Kimball will provide a fully developed project team listing to include all participants. This helps in the communications process immediately.

Throughout the duration of the project, this schedule will be reviewed, refined, and discussed among all project team members on a regular basis. The need to expedite client plan reviews for project permitting and funding processes will allow the design of the project to move quickly to the bidding phase, or alternatively to another construction delivery methodology. Planning for a well-integrated construction delivery phase through coordination with the WV Army National Guard, Construction & Facilities Management Office will help to accomplish the construction phase in an accelerated timetable and identify long lead items and possible pre-purchase of equipment or materials.

L.R. Kimball's Project Manager and other team members will monitor the construction schedule to ensure that shop drawings and other contractor submittals are submitted and processed in a timely manner. In the event of delay, L.R. Kimball will act as a facilitator. Documentation of clarification is a routine part of construction phase activities, and L.R. Kimball uses a computerized log to track the dates the clarification is requested, issued, received, and sent back to the Contractor. This log describes the clarification and establishes a due date for the response. It generates a "tickler file" to keep the status current for the Project Manager.

Cost Control

L.R. Kimball's procedures for cost control ensure that sufficient opportunity is provided to accommodate changes in scope prior to the final design/construction documents phase, to avoid cost overruns. Construction cost estimates will be provided throughout the project, and by continually addressing the cost implications throughout the early phases of design, the team is able to identify cost issues before unrealistic expectations are created. These estimates will be prepared at increasing levels of detail as the project documentation is developed.

L.R. Kimball's approach to developing preliminary project costs is based on the use of historic data developed by L.R. Kimball professionals involved in the design of similar recent and relevant facilities. Additionally, Dodge Construction reports, trade journals, construction managers, and our independent estimators are consulted to achieve realistic preliminary project costs. The keys to successful estimating are the early identification of all components that carry a project cost, the establishment of an adequate project contingency, and confirmation of the workload in the marketplace with the local construction industry.

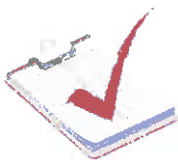
In order to maintain the project budget, it is critical to evaluate the budget at each phase of the project. In the budget development process, we will work closely with your representatives to understand the cost ramifications of various design decisions.

Additionally, we at L.R. Kimball understand the need to select systems that are economical from the day they are purchased throughout the life of the facility. Every major system is evaluated in terms of initial purchase, availability, operating/life cycle costs, and maintenance and replacement costs. Availability of long lead items is also taken into consideration, especially as it relates to project schedule and construction phasing.

As a result of L.R. Kimball's procedures for cost control previously mentioned, we can restate that on major design projects, these procedures will ensure that sufficient opportunity is provided to accommodate changes in scope prior to the final design/construction documents phase in order to avoid excessive cost overruns. Our experience on a multitude of projects varying widely in size, scope, and complexity will enable us to provide accurate, detailed cost estimates at various phases for the project.

During the design and construction documents phases, the quality of the overall construction documents also has an effect on any project's cost control during the construction administration process. Our in-house quality control and cross-discipline review processes will be key components in the control of these costs by L.R. Kimball. Based on this cost control process, our team has a long track record of creating highly efficient and cost-conscious projects within our clients' pre-established budgets.

Quality Control



L.R. Kimball maintains an in-house team of experienced architects, engineers, project managers, and construction-related staff who are responsible for rigorous quality assurance and quality control (QA/QC) of construction documents on all design projects. These reviewers are typically not part of the regular project team that they are assigned to review, but they are familiar with the type of project, thereby facilitating reviews through a "fresh set of eyes".

Our QA/QC (Quality Assurance/Quality Control) team follows an established policy for drawing review and coordination. These reviews are in addition to the continual reviews undertaken by the Project Manager and Senior Technical Leaders within each discipline. These formalized QA/QC reviews take place at the 30%, 60%, and 90% stages of the production of construction documents. Our Project Manager works closely with the QA/QC team during this review process for each project.

L.R. Kimball's QA/QC reviews also include coordination of the construction drawings with the documents produced by all disciplines involved in the design. In this regard, we utilize an interdisciplinary coordination process and construction document review system specifically designed to address points of interface, enabling both production personnel and our QA/QC team to locate discrepancies between disciplines.

Following the above procedures has improved the consistency of our work product and has helped to control costs and minimize change orders during construction. We do not regularly track the percentage of change orders vs. estimated construction costs, since we find that the majority of construction change orders are from client requests to add or change items based on having available funds to work with.

L.R. KIMBALL'S NEAREST OFFICE

The location of CDI L.R. Kimball's nearest office to Camp Dawson is:



**615 West Highland Avenue
Ebensburg, PA 15931**

From this office, CDI L.R. Kimball can provide the following staff:

- Civil Engineers
- Structural Engineers
- Mechanical Engineers
- Transportation Engineers
- Surveyors
- Geotechnical crews and Geologists

All of the staff discussed herein for this project team are located at the Ebensburg office, but supplemental services can be obtained from our office located at:

**500 Corporate Landing
2nd Floor
Charleston, WV 25311**

The Ebensburg office is located approximately 105 miles from the Camp Dawson Pierce Lake Dam. Travel Time is less than 2 hours for the design team to travel to the Camp Dawson Pierce Lake Dam.

In addition, L.R. Kimball assures that, to the fullest extent possible, we will attempt to retain the original personnel assigned to the project throughout its completion. Should unforeseen circumstances arise where a change would be necessary, an equally qualified professional will be made available. In addition, any change in personnel will be discussed with and agreed to by WV Army National Guard, Construction & Facilities Management Office prior to any changes being implemented.

APPENDICE 1. L.R. KIMBALL OVERVIEW

Company Overview

L.R. Kimball (a CDI Company)



In 1953, L.R. Kimball was founded as a Consulting Engineering Firm. After college graduation, L. Robert Kimball, our founder, received a commission in the Army Air Corps. During World War II he served as lead navigator in B-17 aircraft with the Bloody 100th Bomb Group stationed in Thorpes-Abbotts, England. Through his flying service, he was awarded the Distinguished Flying Cross and other medals. Upon returning, he started a two-person consulting engineering firm specializing in civil engineering and surveying. In 1962, the Kimball family purchased what was once a historic inn, in Mr. Kimball's hometown of Ebensburg, PA and moved the

headquarters there, where it remains to this day.

L.R. Kimball is a Division of CDI Engineering Solutions. L.R. Kimball is among the nation's leading professional service companies offering its clients architectural and structural, mechanical and electrical design services, security systems design, civil, environmental and transportation engineering expertise. We have served more than 1,500 clients throughout the United States. Over the course of six decades, clients have valued L.R. Kimball's steadfast principles and bedrock reputation which have produced exceptional results for our clients.



Our firm continues to rank among the leading design firms in Engineering News Record (ENR), the publication of record for over 70,000 engineering and construction industry professionals throughout North America. ENR published its Top 500 Engineering Design Firm rankings for 2019, and once again we have ranked among the leading design firms in North America.

Business Description Information

Name and title of individual submitting the proposal:	Richard E. Genday, PE, Vice President
Name of company:	CDI-Infrastructure, LLC dba L.R. Kimball
Company office address (clearly indicate home office address and local office address if they differ):	See below for specific Office Location
Website address:	www.lrkimball.com
Federal taxpayer identification number or federal employer identification number:	27-2620523
Number of employees:	178
Daytime phone number:	814-419-7873
Fax number:	814-472-7700
Email address:	Rick.Genday@lrkimball.com

What We Do

L.R. Kimball is headquartered in Ebensburg, Pennsylvania with offices in four states including Charleston, West Virginia. We offer expertise in engineering and architecture to local, regional, state and federal government agencies, as well as school districts, universities, and private businesses. We have extensive experience in these fields:



- Water Resources
- Water
- Wastewater
- Transportation
- Public Safety
- Networks
- Geospatial Services
- Facilities Engineering
- Environmental Services
- Education
- Data Systems
- Civil Engineering
- Aviation
- Architecture



Primary Service Groups

L.R. Kimball is comprised of six (6) divisions that provide nearly every service required to complete virtually any type of project. The staff assigned to your projects can draw upon the experience and knowledge of any of our dedicated personnel. Our five operating divisions include the following:

L.R. Kimball Operating Divisions	
Aviation Services	Civil Engineering Services
Airport Planning Airport Design Airport Construction Management & Inspection	Civil Engineering Inspection Water & Wastewater Engineering Land Development Demolition
Transportation Services	Construction Management and Inspection Services
Highway & Bridge Design Traffic Engineering NEPA Documentation (CEE, EA, EIS) Environmental Planning / Site Assessments	Transportation Construction Management & Inspection
Architecture and Engineering Building Systems Services	Geotechnical and Geospatial Services
Architecture Mechanical Engineering Plumbing Engineering Electrical Engineering Structural Engineering Design Build Services	Drilling Geographic Information Systems (GIS) Geospatial Services Photogrammetry & Mapping Surveying Laboratory Testing Services Environmental & Geophysical Services

Our clients benefit from a wide range of qualified professionals and effective quality control that result in timely, cost-efficient projects. With our 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 with the others, as well as with the neighboring environment and facilities.

L.R. Kimball's Primary Services



Civil and Environmental. Since the 1950's, we have built an outstanding reputation in civil and environmental consulting services. The wide spectrum of our clients includes industry, institutions, commercial facilities, utilities, private developers, and military and governmental agencies. Starting 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, critical 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 and hazardous waste disposal operations; industrial facilities; utilities; and manufacturing facilities. We also assist the client with planning, financing options, grant assistance, cost of service studies, construction monitoring, and operations consulting.



Transportation. Highways, bridges, airports – the infrastructure that supports the movement of people and goods throughout the country. The design, construction, and maintenance of that infrastructure is critical to the economy and to the health and safety of the population. Structural integrity, safety, environmental impact, and design criteria of air and ground transportation facilities require a seasoned, knowledgeable staff who are well-versed in all aspects of integrated planning and context sensitive design. L.R. Kimball's Transportation Division can provide that team.

Using the latest technology, we offer a full complement of planning, project administration, design, environmental permitting, construction inspection, and environmental studies for large and small projects. We take pride in our track record of maintaining successful, long-term relationships with our clients, including state departments of transportation, turnpike commissions, airport authorities, counties, municipalities, and developers.



Mapping Sciences. We offer full-service mapping sciences, including: surveying, aerial photography, analytical aerotriangulation, photogrammetry, planimetric and topographic mapping, digital orthophoto production, cadastral mapping, E9-1-1 addressing, 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.



Architecture and Engineering Building Systems. Our services include innovative design for new buildings as well as renovation and adaptive reuse of existing buildings. A L.R. Kimball project is designed not only with aesthetics in mind, but also to meet the specific environmental needs of the people who work, learn, or live in that space. We consider the responsible stewardship of natural resources and energy sources in our projects to be a top priority. We have established a reputation as leaders in high-performance sustainable green building design.

A successful architectural project requires an integrated approach from all of our divisions. Every project is assigned to a design team under the direction of a talented project manager, who coordinates the work of all involved.

CE Services

L.R. Kimball provides a wide range of civil and environmental services to industry, institutions, commercial facilities, and utilities, as well as local, state, and federal government. We work with many of our clients on acquiring project financing, grant applications, administration and implementation plans to assist them in reaching their goals. Our approach to civil and environmental projects is to provide cost-effective, value-conscious solutions while reducing the project risk for our clients. These solutions have often demonstrated significant "bottom line" improvements. The following pages illustrate our primary service areas.

Civil and Environmental Services

- Land Development and Site Design
- Demolition Consulting
- Geotechnical Engineering
- Drilling
- Stockpile Inventories
- Hazardous Waste Management
- Environmental Site Assessment and Permitting
- Solid Waste Management
- Electric Utility
- Hazardous Materials Assessment and Air Quality
- Industrial Hygiene and Safety Consulting
- Environmental Management Systems
- Air Quality Compliance and Permitting
- Water and Wastewater Engineering
- Water Resource Management
- Stormwater Management



Land Development and Site Design



L.R. Kimball knows what it takes to get the job done right the first time. From providing land planning, civil and environmental services for small community parks to big box retail, commercial, and industrial facilities, L.R. Kimball knows what is important to you.

L.R. Kimball has completed numerous land development projects including retail, residential, commercial, office, educational, recreational, and brownfields. A wide variety of comprehensive and master plans have been developed for local and county governments; state agencies; regional authorities; and residential, commercial, and industrial developers.



L.R. Kimball's expertise in the acquisition of regulatory approvals for land development projects is unsurpassed. From municipal zoning approvals to state transportation and environmental permits, L.R. Kimball has successfully secured permits for small- and large-scale land development projects.

"Kimball can be proud of the quality of work the staff is producing and be assured that it is noticed and appreciated. I have no reservations in recommending Kimball to any client requiring similar work."
-Jeffrey J. Raymond, President

Services

- | | |
|--|--|
| <ul style="list-style-type: none"> • Pre-development feasibility • Plan processing and regulatory approvals • Stormwater management • Land planning and landscape architecture • Survey and mapping • Site and civil engineering • Environmental site assessments • Brownfields evaluations • Utility transmission line design and coordination • Pavement designs | <ul style="list-style-type: none"> • Right-of-way acquisitions • Subdivision and land development compliance • Erosion and sediment control plans preparation • NPDES permitting • Comprehensive and master planning • Geotechnical evaluations • Wetland investigations • Photo enhancements and renderings • Project siting studies • 3-D visualization services • Zoning approvals |
|--|--|

Demolition Consulting



Whether our clients choose implosion or conventional means, L.R. Kimball's professional staff of engineers and technicians can provide complete demolition services. These range from pre-condition surveys and assessments through demolition, to site development work for new facilities. L.R. Kimball will assure the client that all necessary coordination with governmental regulatory, environmental, public safety and health agencies takes place in a timely and cost-effective manner.

L.R. Kimball offers a talented multi-disciplinary team under the direction of an experienced project manager. This approach allows you to access all of the necessary demolition services through a single point of contact, insuring excellent quality control and facilitating all necessary communication and coordination. Our professional staff is ready to support our client with the talent and experience required for a successful project.

Services

Structural, mechanical, electrical, and plumbing engineering
 Environmental engineering
 Environmental inspection
 Abatement design
 Abatement oversight
 Pre-condition surveys
 Surveying
 AutoCAD

Detailed bid document preparation
 Cost estimating
 Bidding and construction phase services
 Inspection services
 Civil and site planning and design
 Drilling
 Geotechnical laboratory testing
 Geotechnical investigations



"Kimball has offered novel ways to make the project more cost-efficient."
 Pittsburgh Steelers Sports, Inc.

Geotechnical



Geotechnical engineering is vital to the success of any construction project. Early inclusion of geotechnical engineering professionals into the planning stages of a project is critical in identifying and minimizing potential problems. Geotechnical engineering adds value to projects and saves money.

Our in-house geotechnical laboratory has been accredited by the American Association of State Highway and Transportation Officials (AASHTO) Accreditation Program (AAP) in the fields of soils and Portland cement concrete testing. This accreditation includes the participation in semi-annual reference sample analysis and bi-annual inspections by AASHTO's Materials Reference Laboratory and Cement and Concrete Reference Laboratory. Our laboratory has also been validated by the Army Corp of Engineers to perform concrete and soils testing for their projects.

Services

- Slope stability analysis and design
- Transportation project investigation and design
- Dam design, inspection, and analysis
- Soils, concrete, and aggregate laboratory testing
- Geophysical surveys
- Permitting studies
- Site selection feasibility studies
- Landslides and other soil and rock instability assessments
- Landfill investigation, design, and closure
- Foundation investigation
- Geosynthetic QA/QC
- Material stockpile density determinations (Nuclear Methods)
- Groundwater studies
- Construction inspection and management
- Mine and quarry investigations
- Hazardous mine entry investigations
- Geologic hazards analyses
- Subsidence investigations
- Mine subsidence studies
- Mine and refuse fires assessments
- Ground improvement engineering
- Earth retention systems
- Project reviews



"The geotechnical engineering services have been professional and responsive. With Kimball input, we have developed a drilled shaft foundation solution that will save costs for our customer, the Pennsylvania Turnpike Commission."

**William J. Rohleder, Jr.
Figg Bridge Engineers, Inc**

Drilling



L.R. Kimball has been providing comprehensive drilling services for over 30 years. We have experienced crews that provide services on a full-time, year-round basis with modern drilling equipment. We maintain four drill rigs, including an all-terrain rig for use on engineering and environmental projects.

Our drillers have an average of over 10 years of experience, qualifying us to perform drilling services in very diverse subsurface conditions and terrain. Crews are experienced using 4.25, 6.25, and 8.25 inch I.D. hollow-stem augers; HQ, NX, and NQ2" rock and concrete coring; continuous split-spoon sampling using 2-inch and 3-inch spoons; CME continuous sampling; thin-wall tube sampling; and geotechnical in-situ testing. Drilling and sampling operations are conducted in accordance with ASTM standards. Our drillers are OSHA HAZWOPER trained.

Services

- Geotechnical borings
- NQ2" and HQ wire line rock and concrete coring
- Angle and horizontal borings
- Monitoring wells
- Unconsolidated material coring
- Slope indicator installation and instrumentation
- Down hole nuclear density testing
- Concrete coring and analysis
- 40-Hour OSHA trained and medically qualified crews
- Standard split-spoon and undisturbed sample collection
- Underground storage tank investigations, inspection, and analyses



"L. Robert Kimball is very customer service oriented and performs a valuable professional service. The department thanks you for current service and is looking forward to this continued service in the future."
 David J. Whitlatch, PE
 PennDOT

Stockpile Inventories



An accurate and reliable physical inventory is vital in an increasingly competitive and deregulated environment. Fuel is a large cost associated with any utility, and correct and timely physical inventories are paramount. L.R. Kimball has been supplying inventory services to its clients since it was founded in 1953.

L.R. Kimball provides more in-house stockpile inventory services than any other engineering firm. L.R. Kimball's professional staff of engineers, geologists, photogrammetrists, and technicians is experienced and ready to support clients with the analysis, testing, drilling, density testing, aerial

photography, volume computations, tonnage reports, and tonnage reconciliations for physical inventories. The trust we have developed with our clients has been our hallmark. We provide our clients with a straight story that adheres to our commitments.

Services

- Drilling and sampling
- Stockpile base location
- Continuous Auger Sampling Tube (CAST) investigation methods
- Nuclear density testing
- Shelby tube density investigation methods
- On-site and laboratory density investigation methods
- Aerial photography
- Volume determinations
- Surveying (base locations, ground control, volume computations)
- Mobile mapping
- Coal quality survey and inventories
- Technical reviews and reconciliation
- Pre-bid and testing specifications preparation



"Kimball's report has lots of data that we didn't necessarily ask for, but it is very useful to us. They even customized the report at a lower price than other firms."

Hans Hasnay
Southern Energy New York

Environmental Site Assessments and Permitting

A landowner can be held liable for cleaning up a property, regardless of prior contamination or contamination by others. An environmental site assessment (ESA) provides the appropriate inquiry into the property and identifies possible liabilities associated with RCRA, TSCA, the Clean Air Act, the Clean Water Act, and other laws. L.R. Kimball's staff of environmental scientists provides an integrated approach to ESAs in three phases.



Phase I - Identify readily detectable and significant environmental risks

Phase II - Evaluate potential or actual contamination found

Phase III - Identify specific remediation and clean-up measures

Site assessments can be completed according to ASTM guidelines, or tailored to meet our client's specific needs. With the increasingly complex nature of the local, state, and federal environmental regulatory context, knowledge of permitting for any type of development project is imperative. The advent of new legislation has

provided future owners of former industrial properties opportunities for the release of liability from existing environmental conditions and return of the property to active use. Several heavy industrial areas in the east are impacted by these new regulations, and act as a stimulus to local economies by providing a new place of employment and tax revenue for local communities. L.R. Kimball acquires permits for all development activities by processing them through local municipal boards, planning commissions, boards of supervisors, borough councils, and other government agencies.

Services

- NPDES erosion and sedimentation control permits
- Erosion control approvals from local SCS conservation districts
- Stream encroachment permit preparation
- Wetland encroachment permit preparation
- Wetland delineations
- Wetland findings report preparation
- Wetland mitigation designs
- Dam permit preparation
- Sanitary sewerage planning module preparation
- Rezoning, subdivision, land development submissions
- State, county and local highway occupancy permits for roadway revisions, driveways and utility crossings



Solid Waste Management



L.R. Kimball maintains a staff of civil and geotechnical engineers, geologists, hydrogeologists, and construction QA technicians with many years of experience in the design and assessment of residual, municipal, and hazardous waste collection and disposal systems. Our design and assessment staff is familiar with all aspects of waste management, from waste minimization studies to capping of abandoned landfills. Field QA personnel are not only familiar with a variety of construction techniques, but most are certified nuclear gauge operators and ACI field testing technicians. Many hold current OSHA HAZWOPER training certificates. Key personnel have received formal training, and have experience in the placement and testing of geomembranes and geotextile materials.



Our experience with landfill construction and certification has proven to be of immeasurable importance in the assessment of abandoned landfills, as well as the design and permitting of new or expanded facilities.

Services

- | | |
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| <ul style="list-style-type: none"> • Waste collection studies and analyses • Waste inventories and characterization • Waste minimization studies • Beneficial use studies • Regulatory compliance plans • Siting, permitting, and design of landfills • Site assessments and environmental impact studies • Repermitting and facility upgrades • Design of leachate collection and treatment systems • Environmental monitoring plans • Transfer station designs • Landfill closure designs • Refuse disposal designs | <ul style="list-style-type: none"> • Drilling and sampling • Installation of monitoring wells • Groundwater monitoring plans • Geology and hydrogeology • Soil sampling and testing • Air emission control plans • Geotechnical engineering • Hazardous waste remediation • Wetlands investigation permitting and mitigation • Geosynthetic liner component designs and analyses • Construction quality assurance and certification • Annual waste disposal reports • Quarterly and annual groundwater monitoring |
|--|--|

"We have experienced, first-hand, your firm's dedication to engineering excellence and commend your affirmative commitment to Total Quality Management"

R. Craig Shuman, Jr.
 Manager, Solid Waste Division
 A. Morton Thomas and Associates, Inc.

Electric Utility



L.R. Kimball has been supplying consulting services associated with power plant fuel supplies, residual waste disposal, construction quality assurance, and miscellaneous mapping, engineering, and environmental issues to the electric utility industry for nearly 50 years.

L.R. Kimball offers a complete professional staff of civil engineers, geologists, hydrologists, geotechnical engineers, hydrogeologists, air quality specialists, construction quality assurance technicians, biologists, surveyors, photogrammetrists, and environmental health and safety scientists.

We provide siting, permitting, geotechnical, and land development services necessary for the development of new or expanded generating stations. L.R. Kimball supplies surveying, aerial photography, and solid waste services for existing facilities; and permitting, construction, and demolition QA/QC services associated with plant closure. We have staff ready to address needs throughout the life of any power generating station.

Services

- | | |
|--|--|
| <ul style="list-style-type: none"> • AMD remediations • Aerial photography/mapping • Air quality • Annual solid waste volume reports • Coal and coal refuse quality (BTU, ash content, etc.) investigation • Coal stockpile design services and alternative renderings • Coal stockpile inventories • Construction PE certifications for liner installations • Construction QA/QC • Dam inspections for hydro, water supply, and E&S control dams • E&S control dam designs and planning • Environmental health and safety auditing, training, and consulting • Environmental site assessments • Geotechnical investigations • GPR investigations • Groundwater monitoring well installations and monitoring • Hydrogeologic investigations | <ul style="list-style-type: none"> • Industrial raw water and wastewater pipeline designs and routing • Land development designs and permitting • Lead and asbestos inventories • Liquid fuels inventories • Potable water and wastewater handling designs and permitting • Generating station and associated development siting studies • Right-of-way acquisitions • Risk management planning • Solid waste management permitting and designs • By-product material testing and permitting (for beneficial use) • Storage tank removal QA • Stormwater management facilities designs • Structure demolition QA • Transportation designs • Wetland delineations, mitigation permitting designs, and monitoring |
|--|--|

"Their competencies were evident during the entire project. My feedback from my generating station was always positive in regards to how these gentlemen handled themselves."

Mano Janaitis

Public Service Electric & Gas Company

Water and Wastewater Engineering



L.R. Kimball has successfully produced and/or assisted in the evaluation, design, financing, construction and implementation of hundreds of water and wastewater facilities projects for the past 50 years. L.R. Kimball is capable of completing all elements of the planning project. We have developed work plans involving the application of unique planning and design strategies developed in response to stringent compliance orders, statutory or regulatory requirements, and financial and institutional issues related to authority needs. L.R. Kimball is experienced in working with (and within) multi-jurisdictional authorities and has achieved great success in meeting state and/or local permitting and other regulatory requirements. We are pro-active with regulatory and financial agencies and maintain routine contact with agency personnel. This approach ensures that project issues and constraints are understood by all parties, facilitates the permit and funding approval process, and minimizes potential delays in project implementation. L.R. Kimball has assembled an experienced project team of dedicated professionals who have established working relationships with federal, state, county, and local agencies.

Water Services

- Water facility and corrective action planning
- Surface and groundwater source investigations
- Hydrologic and hydrogeologic modeling
- Wellfield designs
- Dam designs and inspection
- Water storage and distribution designs
- Water treatment facility designs
- Project financing, administration, and implementation plans
- Underground utilities
- Wellhead protection studies

Wastewater Services

- Wastewater collections
- Treatment plant designs
- Industrial pre-treatment
- Sludge disposal planning and permitting
- Corrective Action Plans
- Combined Sewer Overflow (CSO) studies and permitting
- Flow monitoring studies
- Smoke and dye testing
- Project financing, administration, and implementation plans
- Video inspection of sewer lines
- Construction inspection
- Surveying and mapping
- Funding assistance/grantsmanship
- Geographic Information Systems (GIS)
 - Data management services
- Operations and maintenance programs
- Permitting
- Subsurface geotechnical investigations and designs



"We wish to extend our sincere compliments regarding the manner in which you handled our wastewater treatment plant upgrade project. Your input beyond the treatment project on various problems of the system has been proven to be productive."

Sandra L. Teeter, General Manager
North & South Shenango Joint Municipal Authority

Water Resource Management



L.R. Kimball has been supplying consulting services associated with water control, supply, treatment and protection to homeowners; industry; watershed organizations; and local, state, and federal government agencies since 1953. L.R. Kimball's professional staff of civil engineers, geologists, hydrologists, geotechnical engineers and hydrogeologists are experienced in the preparation of water resources projects for private development, industrial site expansion, and government-funded restoration and reclamation. We can provide professional services necessary for the development of these projects, from environmental site assessments and geotechnical investigations, through the preparation of necessary permits, to final construction quality assurance. We have also participated in water resources public meetings to address local concerns, and have prepared educational materials for presentation of stormwater management and water allocation issues to municipal leaders.

Services

- High- and low-hazard dam safety inspections and assessments
- Coal mine tailings dam insurance certifications
- Emergency action plan preparation for permitted dams
- Dam break analyses and inundation mapping
- Federal Energy Regulatory Commission dam inspections and report preparation
- Water supply dam designs and mass balance analyses
- Erosion and sedimentation control dam designs
- Stormwater control impoundment and infiltration basin designs
- NPDES permit application preparation
- Miscellaneous permit application preparations for stream crossings
- Construction quality assurance for water resources projects
- Flood control structure designs and assessments
- FEMA flood insurance studies and existing study modification
- Regional stormwater management studies and ordinance preparation
- Abandoned mine drainage remediation assessment and designs
- Wetland assessments, delineation, and mitigation site designs



"I just wanted to thank you and commend you on the exceptional work that you have performed. Thank you for providing us with an invaluable tool for watershed conservation, protection, and remediation; but also setting a standard for all future assessments."
 Ryan D Koch, Watershed Specialist
 Schuylkill Conservation District

Stormwater Management



Since 1953, L.R. Kimball has provided comprehensive environmental and engineering services related to stormwater management for various commercial, industrial, municipal, government and private clients. We utilize evolving stormwater management practices based on the philosophy of maintaining, as nearly as possible, natural runoff flow characteristics. Our stormwater management practices include structural (detention ponds, pipes, etc.) and/or non-structural (land use planning to effectively preserve existing drainage patterns, vegetation, pervious areas, etc.) methodologies in which we provide the basic elements of a stormwater management program. The effectiveness of a stormwater management program is a result of good planning and engineering design, based on current concepts and practices.

L.R. Kimball's stormwater management experience is two-fold. We have experience in providing comprehensive watershed stormwater management plans utilizing state-of-the-art GIS based modeling technology. These plans support the development of which results in municipal land development and stormwater ordinances for regulatory based clients. We also have experience in providing services to numerous private sector landowners and developers to comply with federal, state, watershed-specific, county, and municipal stormwater management requirements and ordinances. This experience provides us with a clear understanding of currently accepted stormwater management methods and techniques, agency expectations and review processes, and the implementation of practical, yet economical, best management practices for our clients.

Services

- | | |
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| <ul style="list-style-type: none"> • Comprehensive stormwater management master planning • Municipal stormwater management ordinance development • Stormwater management ordinance compliance • Regulatory stormwater permit compliance • Phase II NPDES assessment and permitting • Regulatory erosion and sedimentation control compliance • Emergency action plans • Annual dam inspections | <ul style="list-style-type: none"> • Flood assessment and control • Geographic Information System (GIS) development • Floodway and floodplain assessments • Construction monitoring and documentation • Stormwater and drainage assessment, analysis, evaluation and designs • Stormwater quality control • Stormwater monitoring, sampling and analyses • Existing facility and site expansion, improvement or rehabilitation |
|--|--|



“ I wish to extend our sincere compliments regarding the manner in which you handled our project. You can be proud of the quality of work your staff is producing and be assured that it is noticed and appreciated.”
 Tyrone Petrich, President
 Enon Valley Borough Council

Certificate of Authorization – CDI-Infrastructure, LLC dba L.R. Kimball

CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

*The West Virginia State Board of Registration for Professional Engineers
having verified the person in responsible charge is registered in
West Virginia as a professional engineer for the noted firm, hereby certifies*

**CDI-INFRASTRUCTURE, LLC DBA L. R. KIMBALL
C03828-00**

Engineer in Responsible Charge: RICHARD E. GENDAY - WV PE 013348
*has complied with section §30-13-17 of the West Virginia Code governing
the issuance of a Certificate of Authorization. The Board hereby notifies you of its
certification with issuance of this Certification of Authorization for the period of:*

January 1, 2020 - December 31, 2021

providing for the practice of engineering services in the State of West Virginia.



IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE,
PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.

IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF
REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA
UNDER ITS SEAL AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT

APPENDICE 2. REQUIRED FORMS

a. Designated Contact Form

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Name, Title)
Richard E. Genday, PE, Vice President

(Printed Name and Title)
615 West Highland Avenue, Ebensburg, PA 15931

(Address)
814-419-7873 / F 814-472-7712

(Phone Number) / (Fax Number)
Rick.Genday@lrkimball.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

CDI-Infrastructure, LLC dba L.R. Kimball

(Company)



(Authorized Signature) (Representative Name, Title)

Richard E. Genday, PE, Vice President

(Printed Name and Title of Authorized Representative)

5-4-2020

(Date)

814-419-7873 / F 814-472-7712

(Phone Number) (Fax Number)

b. Purchasing Affidavit

Commonwealth of Pennsylvania
County of Cambria

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. 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.

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.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"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 exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

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

Authorized Signature: *Richard E. Genday* Date: 5-4-2020
State of Commonwealth of Pennsylvania Richard E. Genday, PE, Vice President

County of Cambria, to-wit:

Taken, subscribed, and sworn to before me this 4th day of May, 2020

My Commission expires Aug 17, 2020

AFFIX SEAL HERE

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Rosemarie E. Brennen, Notary Public
Ebensburg Boro, Cambria County
My Commission Expires Aug. 17, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

NOTARY PUBLIC

Rosemarie E. Brennen