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Header 4

List View

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Procurement Folder: 1257505

Procurement Type: Central Purchase Order

Vendor ID:

Legal Name: KLEINFELDER INC

Alias/DBA:

Total Bid: \$7.00

Response Date:

Response Time:

Responded By User ID:

First Name:

Last Name:

Email:

Phone:

SO Doc Code: CEOI

SO Dept: 0313

SO Doc ID: DEP2400000008

Published Date: 8/10/23

Close Date: 8/31/23

Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 4

Total of All Attachments: 4

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Beech Bottom Highwall				1.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments: Pricing not included per EOI instructions; the number is a placeholder to allow the required documents to be uploaded to the site.

Extended Description:

Beech Bottom Highwall

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Bethany (Haizlett) DS, Highwall and AMD				1.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments: Pricing not included per EOI instructions; the number is a placeholder to allow the required documents to be uploaded to the site.

Extended Description:

Bethany (Haizlett) DS, Highwall and AMD

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Buffalo Creek Highwall				1.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments: Pricing not included per EOI instructions; the number is a placeholder to allow the required documents to be uploaded to the site.

Extended Description:

Buffalo Creek Highwall

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Crafts Run Maintenance				1.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments: Pricing not included per EOI instructions; the number is a placeholder to allow the required documents to be uploaded to the site.

Extended Description:

Crafts Run Maintenance

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	Logan Run Highwall				1.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments: Pricing not included per EOI instructions; the number is a placeholder to allow the required documents to be uploaded to the site.

Extended Description:

Logan Run Highwall

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	Richard Mine Drainage Facility Upgrades				1.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments: Pricing not included per EOI instructions; the number is a placeholder to allow the required documents to be uploaded to the site.

Extended Description:

Richard Mine Drainage Facility Upgrades

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	Wades Run Dangerous Embankment				1.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments: Pricing not included per EOI instructions; the number is a placeholder to allow the required documents to be uploaded to the site.

Extended Description:

Wades Run Dangerous Embankment

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

AML CONSULTANT QUALIFICATION QUESTIONNAIRE

Attachment "A"

PROJECT NAME EOI - 2023 AML Contract N4		DATE (DAY, MONTH, YEAR) 31, August, 2023		FEIN 94-1532513	
1. FIRM NAME Kleinfelder, Inc.		2. HOME OFFICE BUSINESS ADDRESS 770 First Avenue, Suite 400, San Diego, CA 92101		3. FORMER FIRM NAME Century Engineering (Acquired)	
4. HOME OFFICE TELEPHONE 619-831-4600	5. ESTABLISHED (YEAR) 1961	6. TYPE OWNERSHIP Individual <u>Corporation</u> Partnership Joint-Venture		6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES <input type="radio"/> NO <input checked="" type="radio"/>	
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE 180 White Oak Blvd, Suite 110, Bridgeport, WV 26330 (304) 984-6443 Samantha J. Pretzel, PE (10)					
8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Louis Armstrong, CEO Erik Soderquist, CFO John Murphy, COO Rita Fordiani, Technical Director			8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS Troy Holloway, VP PA/WV Area Manager 717-901-7055 Samantha Pretzel, Senior Program Manager 304-984-6443		
9. PERSONNEL BY DISCIPLINE					
<u>461</u> ADMINISTRATIVE	<u>44</u>	ECOLOGISTS	<u>4</u>	LANDSCAPE ARCHITECTS	<u>52</u> STRUCTURAL ENGINEERS
<u>14</u> ARCHITECTS	<u>0</u>	ECONOMISTS	<u>196</u>	MECHANICAL ENGINEERS	<u>70</u> SURVEYORS
<u>68</u> BIOLOGIST	<u>37</u>	ELECTRICAL ENGINEERS	<u>3</u>	MINING ENGINEERS	<u>44</u> TRAFFIC ENGINEERS
<u>40</u> CADD OPERATORS	<u>150</u>	ENVIRONMENTALISTS	<u>0</u>	PHOTOGRAMMETRISTS	<u>959</u> OTHER
<u>15</u> CHEMICAL ENGINEERS	<u>0</u>	ESTIMATORS	<u>22</u>	PLANNERS:	
<u>223</u> CIVIL ENGINEERS	<u>109</u>	GEOLOGISTS		URBAN/REGIONAL	
<u>234</u> CONSTRUCTION INSPECTORS	<u>0</u>	HISTORIANS	<u>15</u>	SANITARY ENGINEERS	
	<u>15</u>	HYDROLOGISTS			<u>2993</u> TOTAL PERSONNEL
<u>48</u> DESIGNERS			<u>117</u>	SOILS ENGINEERS	
<u>43</u> DRAFTSMEN			<u>10</u>	SPECIFICATION WRITERS	
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: <u>3</u>					
*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.					
10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? NOT APPLICABLE					

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

<p>NAME AND ADDRESS: AllStar Ecology 1582 Meadowdale Rd Fairmont, WV 26554</p>	<p>SPECIALTY: Ecological studies outside of Kleinfelder's area of expertise.</p>	<p>WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Terra Testing, Inc. 260 Meadowland Blvd Washington, PA 15301</p>	<p>SPECIALTY: Geo-technical Drilling</p>	<p>WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Thrasher, Inc. 600 White Oaks Blvd Bridgeport, WV 26330</p>	<p>SPECIALTY: Aerial Survey, LiDAR and Planimetric Mapping</p>	<p>WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS: Encarna, LLC 2150 Brandon Trail Alpharetta, GA 30004</p>	<p>SPECIALTY: Bat Surveys</p>	<p>WORKED WITH BEFORE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>NAME AND ADDRESS:</p>	<p>SPECIALTY:</p>	<p>WORKED WITH BEFORE <input type="checkbox"/> Yes <input type="checkbox"/> No</p>

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

YES Description and Number of Projects: Kleinfelder's personnel listed in section 13 of this attachment documents previous experience with front end watershed assessment, project development, abandoned mine lands remediation, AMD treatment facility design, and mine reclamation engineering for varying regions and types of mining. Specifically, Samantha Pretzel and Brian Osborn are RPEs for mining engineering in the state and have West Virginia specific experience for mine site remediation, reclamation and general engineering related to surface and underground coal operations prior to and while working at Kleinfelder. Additionally, the core team for the Abandoned Mine Program (AMP) at Kleinfelder incorporates the combined knowledge of both AML agency experiences, with engineering design, construction management and operational experience for AML and AMD projects across the region. Total projects related to Kleinfelder's personnel experience is approximately 20 projects. Projects include but are not limited abandoned mine reclamation to facilitate new operations, horizontal drilling program management to confirm abandoned mine works, geotechnical assessment of abandoned mine works for potential subsidence risk, abandoned mine grouting to mitigate subsidence risks, watershed management permitting & site design related to multiple bond forfeiture sites along the Dunkard Creek watershed in Pennsylvania, coal refuse site management and reclamation design, coal mine subsidence investigations and repair plan development, valley fill reclamation design, seep modeling and stability analysis, reclaimed channel design, flood modeling, and contaminant transport modeling.

NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: Kleinfelder has considerable depth in regards to geotechnical engineering and soil analysis. Services and capabilities range from general site investigations, earth retention designs, slope stability evaluations, and geohazard evaluation. Kleinfelder currently manages multiple extensive landslide repair programs for large energy clients in the greater West Virginia, Ohio and Pennsylvania area. Total numbers of projects exceed 50 in the last 2-5 years. Scope and responsibilities vary from site investigations that include general geotechnical investigation and soils analysis to geotechnical design generation, construction specifications and plan set compilation. Construction oversight is recommended for any geotechnical design performed by Kleinfelder to ensure that the design is installed correctly, and that any field reports and documentation are complete and help mitigate risk to the client.

NO

C. Is your firm experienced in hydrology and hydraulics?

YES Description and Number of Projects: Kleinfelder has performed extensive stormwater design, floodplain modeling, surface water modeling, groundwater modeling, hydrogeology and structural geologic analysis conducted for surface and underground active and reclaimed mines. Programmatic coverage for some operations has been developed to reduce risk and support permitting needs depending on the Client and their needs. Approximately 25 projects in the last 2-5 years, varying in budget and schedule for national and regional operations in the Eastern United States.

NO

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

YES Description and Number of Projects:

NO Kleinfelder sub-contracts aerial photography/LiDAR mapping to develop contour mapping for projects in the state of West Virginia. While Kleinfelder has in house survey capabilities, aerial photogrammetry and LiDAR is supported by the sub-contractors listed in section 14.

E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)

YES Description and Number of Projects: Kleinfelder staff have worked on multiple domestic waterline design projects, including municipal, private and institutional systems. Projects involved hydraulic analysis, pump sizing calculations, pipeline design and construction oversight for both groundwater and surface water supplies. Staff have been actively involved in 50 projects or more across the eastern United States, a small portion (10 projects) of those were related to the southeastern United States and aquifer degradation because of mining. Currently the Pennsylvania Department of Environmental Protection's Professional Engineering Services (PES) contract which provides free engineering services to rural/smaller water authorities in PA. A portion of this work is related to AML and AMD sites across the coal fields of PA. The contract is currently held by a Kleinfelder subsidiary (Century Engineering, acquired in 2021) and is supported by staff within the WV and PA offices.

NO

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES Description and Number of Projects: Attached for your consideration is additional information for the core team that supports Kleinfelder's Abandoned Mine Program (AMP). Currently Kleinfelder is in design for the Morris Run ATP Project for the Susquehanna River Basin Commission and the Banning No. 4 Mine Water Treatment Facility Upgrade for Clean Streams/Pa DEP. Both projects are 10+ million gpd facilities that are incorporating functional redundancy and are focused on minimizing O&M costs for the life of the facility. While Morris Run is a brand-new facility to restore 22 miles of the Tioga River, the Banning Facility is a complete upgrade of the existing facility, taking the operations from two treatment plants to a single operational facility to hand a combined flow to overcome the inflows of the Banning No. 4 Mine. Kleinfelder is also a current contract holder for the PA DEP BAMR's and Susquehanna River Basin Commission's on-call engineering services contracts which include both AML and AMD evaluation, design, and construction oversight. While Kleinfelder's specific experience is limited, the experience of the AMP team includes considerable experience as it relates to AMD evaluation and abatement design for both active and passive facilities and multiple types of applications.

NO

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Pretzel, Samantha J. Senior Program Manager Abandoned Mine Program	8	17	1

Brief Explanation of Responsibilities
 Mining Engineer with 17 years of experience in mining and civil applications, experience varies from initial site assessment/development, environmental permitting for active and abandoned operations, construction management related to industrial and water treatment applications, abandoned mine site reclamation, and refuse disposal, transportation, as well as power/energy related to linear projects and facilities design. Ms. Pretzel's responsibilities include Abandoned Mine Program management, Project Management, Quality and Risk Management, Kleinfelder Mining Community of Practice (CoP) Leader and the current East Division Civil Practice Lead. Additional information has been included in the appendices provided.

EDUCATION (Degree, Year, Specialization)
 BS, 2006, Mining Engineering - Surface and Underground Coal Mine Operations & Reclamation
 MBA, 2019 Business Administration & Export Management

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
Society of Mining, Metallurgy and Exploration American Society of Civil Engineers National Stone, Sand and Gravel Association American Society of Reclamation Sciences	Professional Engineer, 2014, West Virginia Professional Engineer, 2019, Pennsylvania Professional Engineer, 2019, Ohio Other States Available Upon Request

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Clark, Thomas J Senior Scientist AMP Project Development Manager	26	26	0

Brief Explanation of Responsibilities
 Senior scientist responsible for water quality, stream biological, and water pollution control techniques, particularly in the passive technologies to treat impacted coal mine water. Mr. Clark also serves as Kleinfelder's Project Development Manager serving as one of the prime contact professionals for clients, and as one of the main scientific report writers within the firm relating to AMD and AML work. Mr. Clark's experience prior to Kleinfelder included 15+ years as the Mine Drainage Coordinator for the Susquehanna River Basin Commission. Additional information has been included in the appendices provided.

EDUCATION (Degree, Year, Specialization)
 BS, 1998, Biology - Terrestrial Ecology
 MS, 2003, Biology - Aquatic Ecology and Water Pollution Control

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
American Society of Reclamation Sciences	

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Osborn, Brian M. Project Manager III	26	38	2

Brief Explanation of Responsibilities
 Responsible for managing Kleinfelder's staff of professionals to meet the requirements and expectations of each project. Mr. Osborn is responsible for conducting client meetings, schedule and scope management, and ensures that the contract requirements are met. Mr. Osborn's prior experience before Kleinfelder included engineering management and principal in charge for multiple underground and surface coal operations within the north central West Virginia region, additional information included in the appendices provided.

EDUCATION (Degree, Year, Specialization)
 BS, 1985, Mining Engineering - Surface and Underground Coal Mine Operations & Reclamation

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
	Professional Engineer, 1997, West Virginia Professional Engineer, 1996, Pennsylvania Professional Surveyor, 1997, West Virginia Other States Available Upon Request

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Lilly, Clayton C. Senior Professional Permitting Team Lead	1	4	0

Brief Explanation of Responsibilities
 Responsible for stream and wetland delineation and aquatic feature assessment. Preparing state and federal applications for Chapter 105 clearance. Coordinating with PADEP and USACE reviewers and staff to provide information to assist with permitting reviews. Assessing and arranging for stream and wetland mitigation where necessary. Oversight of cultural resource surveys, endangered species surveys, and ESA Section 7 clearances as well as PAFBC and DCNR Coordination. Mr. Lilly serves as the permitting and environmental lead for the Morris Run and Banning No. 4 Mine projects at Kleinfelder, ensuring that the permitting requirements and necessary stakeholder engagement for the projects is achieved. Additional information has been included in the appendices provided.

EDUCATION (Degree, Year, Specialization)
 MSF, 2018, Forest Hydrology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
Freshwater Mollusk Conservation Society	

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Giunta, Mark Senior Principal Professional Geotechnical Lead	2	13	0

Brief Explanation of Responsibilities
 Geotechnical Engineer with over 20 years of experience in almost all aspects of soil and rock mechanics. Knowledgeable in site characterization using various geophysical and drilling/sounding techniques, foundation design for shallow and various deep foundation systems, retaining structure and slope design for slides as well as support of excavation, various ground improvement techniques, laboratory analysis, and construction inspection. Additional information has been included in the appendices provided.

Responsibilities include Allentown, PA office management, Project Manager, Geotechnical Engineering Lead.

EDUCATION (Degree, Year, Specialization)
 BS, 1999, Geotechnical Engineering, Minor Geological Sciences.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
Member - American Society of Civil Engineers	Professional Engineer, 2004, Florida Professional Engineer, 2006, Pennsylvania

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Byer Jr., Robert M. Principal Professional Hydrogeo/Hydrologist	10	38	10

Brief Explanation of Responsibilities
 Mr. Byer has more than 36 years of experience managing and conducting diverse projects involving complex hydrogeologic characterizations, soil and groundwater remediation, infiltration studies, groundwater mounding evaluations, remedial alternative optimization analysis, groundwater modeling, brownfield assessments, litigation/expert witness support services, and water supply evaluations. He has provided permit development, groundwater flow model development, aquifer test design and analysis, groundwater fate and transport modeling, and RCRA/CERCLA hydrogeologic investigation services to private and public sector clients. He has modeled complex hydrogeologic regimes to interpret and optimize various remedial scenarios, and applied innovative approaches, where appropriate, to remediation projects. Mr. Byer has had responsibility for regulatory interpretations, negotiations, and training of junior staff in regulatory implementation. Additional information has been included in the appendices provided.

EDUCATION (Degree, Year, Specialization)
 BS, 1979, Earth Sciences
 MS, 1991, Hydrogeology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
American Institute of Hydrology, Application Reviewer Association of Groundwater Scientist and Engineers Pennsylvania Council of Professional Geologists	Licensed Geologist, Delaware Licensed Geologist, Pennsylvania Certified Hydrogeologist

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Pontzer, Aaron J. Senior Professional Abandon Mines Senior Civil Lead	10	17	7

Brief Explanation of Responsibilities
 Mr. Pontzer is the abandoned mine drainage treatment system and abandoned mine land reclamation design lead for Kleinfelder. Mr. Pontzer assists the project teams in scope development, technical guidance, O&M and constructability reviews and client interface for mine drainage treatment systems (passive and active) and reclamation of abandoned mine lands. Mr. Pontzer's experience prior to Kleinfelder included working as a Watershed Manager for the PA DEP District Mining Operations. Additional information has been included in the appendices provided.

EDUCATION (Degree, Year, Specialization)
 BS 1995, Geo-Environmental Engineering
 MS 1997, Engineering - Environmental Pollution Control

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State) Professional Engineer, 2005, Pennsylvania
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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Pan, Shugen Senior Principal Professional	10	12	0

Brief Explanation of Responsibilities
 Dr. Pan has 22 years of experience in industrial (primarily mining, power, and steel industries) and municipal water and wastewater treatment systems and is the senior process engineer for the AMP team. His projects include treatment process evaluation, feasibility studies, conceptual and detail design, construction phase service, and system start up and performance testing. His expertise includes membrane systems (microfiltration/ultrafiltration/nano filtration/reverse osmosis), conventional coagulation and lime softening processes; (high rate) clarification, multimedia filtration, greensand filtration, ion exchange resin, granular activated carbon/powdered activated carbon technologies. His experience includes disinfection byproduct control, taste and odor control, arsenic, iron, manganese, nitrate and PFAS treatment. His experience also included booster pump stations, chemical storage and feed systems, and fluoridation for treatment plants and groundwater wells. Additional information has been included in the appendices provided.

EDUCATION (Degree, Year, Specialization)
 PhD, 2001, Environmental Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Water Works Association American Academy of Environmental Engineers & Scientists	REGISTRATION (Type, Year, State) Licensed Professional Engineer, CA
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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Oliver, Eric M. Project Professional Reclamation/Reforestation	4	27	7

Brief Explanation of Responsibilities
 Mr. Oliver is the abandoned mine lands reclamation and reforestation specialist at Kleinfelder. Specializing in field investigations, field science and project development for the AMP team. Mr. Oliver is responsible for GIS mapping, drone aviation, spatial analysis, data collection and post processing, with emphasis on reforestation, revegetation, and special reclamation projects. Mr. Oliver's experience prior to Kleinfelder included working for PA DEP's District Mining Operations as a compliance inspector and reclamation lead. Additional information has been included in the appendices provided.

EDUCATION (Degree, Year, Specialization)
 BS 1995, Geo-Environmental Engineering
 MS 1997, Engineering - Environmental Pollution Control

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
American Society of Reclamation Sciences PA Forestry Association PA Native Plant Society	

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

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Barr, TammyRae D. Project Manager III Civil Design and Land Development	0	34	1

Brief Explanation of Responsibilities
 Ms. Barr has over 34 years of extensive land development experience in the Mid-Atlantic region including but not limited to pre-feasibility reviews and constructability assessment, construction oversight, and project and design development related to renewable energy and alternative land use applications.

EDUCATION (Degree, Year, Specialization)
 BS, 1989, Civil Engineering - Land Development

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
Women's Energy Network	Licensed Professional Engineer, PA, 2000

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

Microsoft Office (Word, Excel, PowerPoint and Outlook)
Microsoft Teams

ArcGIS
AutoCAD Civil 3D
AutoCAD/Carlson Suite
MicroStation

HydroCAD
SED-CAD
HEC-RAS
ICPR

gINT
Plaxis
Ensoft Suite (APile, LPile, GROUP, SHAFT)
GEOStudio Suite (Slope/W, Seep/W, Sigma/W, Quake/W)
RocScience Suite (Slide, RSPile, RocData, Settle3D, Swedge)

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Morris Run ATP AMD Treatment Plant Design and Conveyance Tioga County, PA	PA DEP, BAMR Harrisburg, PA	Full Design Services related to the abatement for 15 MGD treatment facility and associated conveyance.	\$65,000,000	60%
Banning No. 4 Mine Treatment Plant Upgrade Westmoreland County, PA	PA DEP, DMO Harrisburg, PA	Full Design Services related to the abatement for 12 MGD treatment facility and associated conveyance.	\$30,000,000	25%
Loyalsock AML Site Passive Treatment Site Upgrade Williamsport Area, PA	PA DEP, BAMR Harrisburg, PA	Full Design for a Passive Treatment System Upgrade.	\$750,000	5%
Coal to Solar, Feasibility and Conceptual Site Planning, Multiple Sites	Multiple Clients, Confidential	Site Assessment, Desktop Reviews, Geotechnical Investigations, Design, Permitting and Constructability evaluations for potential solar projects on mine lands	Varies \$2-50 Million	Varies
FirstEnergy Geo/Site Civil Program, OH, PA, WV, MD and NJ	FirstEnergy Corp Greensburg, PA	Geotechnical Investigation, Landslide Repair Plans & Specifications, Construction Oversight	Varies \$350,000 - \$5,000,000	On-Call
Antero Resources, Permitting and Compliance Program, WV	Antero Resources Bridgeport, WV	Environmental Permitting and Planning for Compliance and New Construction	Varies \$500,000 - \$10+ Million	On-Call
Rausch Creek Business Park, Geotech/CoMET Pine Grove, PA	Viridian Partners Highlands Ranch, CO	Geotechnical Engineering, Project still in design development completing assessment of mining operations and potential subsidence risk, and mitigation efforts (if required).	\$250,000,000	90%

Texas Quarry - Floodplain Analysis Hunt Valley, MD	Martin Marietta Raleigh, NC	Cross sectional survey for verification of floodplain modeling, conceptual design for mitigation to control flooding adjacent to 200 year old surface/underground aggregate mine. Karst geology present. Subsidence of the stream area is causing ground failures near the edge of existing pit.	\$700,000	90%
Clinton Quarry Pond Design Civil/CoMET Clinton, SC	Hanson Aggregates Clinton, SC	Pre and Post Construction surface modeling to facilitate floodplain permits, Construction Oversight of pond/impoundment installation	\$250,000	90%
Clinton Quarry Civil/Mine Planning Clinton, SC	Hanson Aggregates Clinton, SC	Overburden Stockpile & Reclamation Mine Plans. Phased civil design for 8.2 million cubic yards of material.	\$5,000,000	35%
On-Call Engineering Services for Public Works Somerville, MA	City of Sommerville Somerville, MA 02143	On-Call engineering services for the City of Somerville. Engaged with Client since 2013.	\$8,200,000	On-Call
Petro & Refinery Remediation Services United States	Confidential Client	Environmental site assessment, groundwater modeling and monitoring, Remediation and site redevelopment program	\$50,000,000	On-Call
Additional Projects can be provided upon request.				
TOTAL NUMBER OF PROJECTS: 12 have been provided			TOTAL ESTIMATED CONSTRUCTION COSTS: Over \$200,000,000	

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Flint Run Landslide Mitigation West Virginia	FirstEnergy Corp Greensburg, PA	\$5,000,000	2023	In Progress
Dolly Landslide Mitigation West Virginia	FirstEnergy Corp Greensburg, PA	\$5,000,000	2022	In Progress
Shelly Company - Quarry Highwall Evaluation and Mitigation Ohio	The Shelly Company Columbus, OH	\$1,500,000	2021	YES
Trail Ridge South Mine Surface Mine Permit & Compliance Management Bradford/Clay County, FL	The Chemours Company FC, LLC Wilmington, DE	Mine Permitting Engineer of Record	2020	NO
North Maxville Mine and CR 228 Re-Alignment Surface Mine Permit & Civil Design Baker County, FL	The Chemours Company FC, LLC Wilmington, DE	Mine Permitting Engineer of Record	2019	NO
Charlton Municipal Water System Expansion Contamination Assessment, Remediation, Water System Design & Construction Oversight Charlton, MA	Town of Charlton, MA	\$26,400,000	2018-2020	In Progress
Wareham Maple Springs Water Treatment Plant Water Treatment for Iron & Manganese Wareham, MA	The Wareham Fire District (WFD) Wareham, MA	\$10,900,000	2018-2020	YES
Folly Hill Tank Chlorine Station System Modeling & Treatment Facility Design Danvers, MA	Town of Danvers Water Department Danvers, MA	\$350,000	2020	YES
Additional Projects can be provided upon Request.				

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

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
<i>None Provided, Kleinfelder is typically Prime for their projects.</i>					

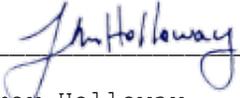
19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.

Through our diverse history within the mining, environmental remediation and water sectors, Kleinfelder is bringing the depth and level of engagement of an international firm to the local level. We do this through both the firm and the individuals that have been included in our supporting documentation, as well as the pool of resources company wide that are available to support our proposed team. Kleinfelder is proposing to manage the West Virginia Abandoned Mine Lands Program out of our local Bridgeport, WV office that is centralized to the current Agency locations throughout the state, and the proposed projects listed under this submittal. Under the leadership of Samantha Pretzel, PE (17+ years of industry experience in the Northern WV coal fields), Brian Osborn, PE (35+ years of mining industry and reclamation experience) and Thomas Clark (25+ years of AMD and AML project experience), Kleinfelder has positioned itself to not only meet the needs of the Agency but bring a level of quality and fit for purpose solutions to the projects that is supports.

Kleinfelder's over 2900 professional resources spanning a broad range of technical disciplines. We are highly integrated as a workforce, and though we are an international firm, our mantra is "One Company". We bring our most qualified specialists to bear when addressing our clients' needs, regardless of their location. While the geographic diversity of our resources allows us to quickly mobilize to meet project requirements, our One Company culture and use of Web-based collaboration tools allow us to seamlessly incorporate expertise from multiple locations, providing our clients with the most appropriately qualified resources for their specific project needs.

Additional information provided in the appendices attached.

20. The foregoing is a statement of facts.

Signature: 

Title: Vice President

Date: August 29, 2023

Printed Name: Troy Holloway

AML and RELATED PROJECT EXPERIENCE MATRIX																						
PROJECT	Exp. Basis C=Corp. P=Personnel *	Additional Info Provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS														PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional					
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Nitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability					
Morris Run Active AMD Treatment Plant	C	Fact Sheet	M/P	M/P	M/P						M/P	M/P	M/P	M/P		M/P	M/P					
Banning Active AMD Treatment Plant	C	Fact Sheet				P			P		P			P	P							
Dunkard Creek Watershed Management Plan	C	Resume	M/P	M/P	M/P	M/P					M/P	M/P	M/P	M	M/P	M						
Compliance Management for Permitting Portfolio	C	Resume	M/P	M/P	M/P	M/P	M/P		M/P	M/P	M/P	M/P	M/P	M/P	M/P	M/P	M/P					
Prime No. 1 Mine Reclamation	C	Resume			M/P	M/P			M/P		M/P	M/P	M/P	M/P	M/P	M/P	M/P					
Loyalsock	C	Fact Sheet	M	M							M	M	M	M								
Taylorstown - WMP Phase 1	C	Resume	M/P	M/P	M/P	M/P					M/P	M/P	M/P	M/P		M/P						

SECTION NOT USED, INDIVIDUAL SHEETS INCLUDED FOR CORE TEAM

* List whether project experience is corporate or personnel based or both.
 ** Use this area to provide specific sections or pages if needed for reference.
 *** List Primary Design personnel and their functional capacity for the projects listed.

AML and RELATED PROJECT EXPERIENCE MATRIX																						
PROJECT	Exp. Basis C=Corp. P=Personnel *	Additional Info Provided in Section (s) **	PROJECT EXPERIENCE REQUIREMENTS														PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional					
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Morris Run Active AMD Treatment Plant	C	Resume			M						M			M		M						
Banning Active AMD Treatment Plant	C	Resume				M			M		M			M	M		M					
Dunkard Creek Watershed Management Plan	C	Resume	M/P	M/P	M/P	M/P						M/P	M/P	M/P	M	M/P	M					
Laurita Trucking & Exc. Reclamation	C	Resume	M																			
National Steel Reclamation	C	Resume	M	M	P	M	M	M				M	M	M								
Concorde Corporation Reclamation	C	Resume	M			M		M				M	M	M								
Warwick No. 3 Mine Reclamation	C	Resume		M/P	M/P			M			M		M		M	M						
Shannopin Mine Reclamation	C	Resume		M/P	M/P	M/P					M/P		M/P	M/P	M/P							

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Bear Run Watershed Renaissance Project	C	Resume	M	M			M				P	M/P	M	M/P		M/P						
Morris Run Active AMD Treatment Plant	C	Resume / Fact Sheet		M							M	M/P		M								
Rausch Creek Mine Pool Eval. & Discharge Trans.	C	Resume		M							M	M/P		M		M						
West B. Susquehanna AMD Remediation Strat.	C	Resume										M/P										
Anthracite Region AMD Remediation Strategy	C	Resume										M/P										
Moshannon Creek Remediation Strategy	C	Resume										M/P										
Loyalsock Creek Treatment System Design	C	Resume / Fact Sheet		M								M/P		M/P								

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Banning Active AMD Treatment Plant	C	Resume									P			P								
Loyalsock Creek (White Ash #3) Passive System	C	Resume				P					P	P	P	P								
PA DEP Watershed Manager	P	Resume	M/P			M/P					M/P	M/P	M/P	M/P								
PA DEP BAMR Project Development	P	Resume	P			P					P	P										

SECTION NOT
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Morris Run Active AMD Treatment Plant	P	Fact Sheet	P	P							P	P		P		P						
Banning Active AMD Treatment Plant	P	Fact Sheet		P							P	P		P		P						
Eagle Mine Mill Water Treatment Plant	P	RESUME									P	P		P								
Benbow Water Treatment, Stillwater Mining	P	RESUME									P	P		P								

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* List whether project experience is corporate or personnel based or both.
 ** Use this area to provide specific sections or pages if needed for reference.
 *** List Primary Design personnel and their functional capacity for the projects listed.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

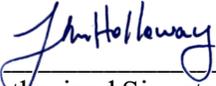
Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Company



Authorized Signature

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

Company Overview

Founded in 1961, Kleinfelder (KLF) is a full service architectural and engineering service firm with over 3,000+ employees in offices across the United States, Australia, and Canada. We have been in business for 60 plus years focusing on client relationships and commitment to high-quality work and to the communities we serve.

With the recent acquisition of Century Engineering (CE), a full-service engineering firm, Kleinfelder now has over 1,400 employees in the East Division. Approximately 125 of those employees are within our Bridgeport (WV) office, or in adjacent offices in Oakland (MD), Pittsburgh (PA), State College (PA), Zanesville (OH), and Christiansburg (VA).

CE's staff has been fully integrated into KLF, allowing for a broad depth of experience and resources to execute a multi-disciplinary program such as that described within this Express of Interest (EOI).

These integrated teams and combined capabilities are currently delivering design projects such as the Morris Run Abandoned Mine Drainage (AMD) Active Treatment Plan (ATP), which according to the PA Department of Environmental Protection (DEP) Bureau of Abandoned Mine Reclamation (BAMR), could be the largest ATP in the country once constructed, the Banning Mine Drainage ATP, and the Loyalsock (White Ash #3) Passive Treatment Systems Redesign Project (Appendix D). In addition to these significant AMD treatment projects, KLF has also been awarded an open-end contract with PA DEP BAMR and with the Susquehanna River Basin Commission (SRBC) to deliver engineering support for their abandoned mine land (AML) reclamation and AMD treatment projects.

As mentioned, Kleinfelder has an office in Bridgeport, WV, with three N4 projects within a 35-mile drive, and an office in Pittsburgh, PA, with four N4 projects within a 52-mile drive (Figure 1 and Table 1). KLF has built the team to tackle the EOI Deliverables and view our office(s) proximity, and the familiarity of our Bridgeport employees to the area, and even with several of the projects listed, to be an asset to WV DEP.

Mine Reclamation / Treatment Experience

KLF's Abandoned Mine Program (AMP) Management team has over 130-years combined experience in the business of AML Reclamation and AMD Treatment bringing a wealth of knowledge and expertise from both the corporate and public sectors.

Samantha "Sami" Pretzel, P.E., our Program Manager and Principal brings her experience as a former coal industry employee specializing in mining and civil engineering, site assessment / design, permitting, and feasibility studies. Mrs. Pretzel also serves as KLF's East Division Civil Lead and is the Project Manager for the Morris Run AMD ATP. Mrs. Pretzel was the Project Manager / Engineer for the Dunkard Creek Watershed Management Plan, overseeing all aspects of the conceptual design, project execution, schedule, and budget and agency coordination related to the development of this multi-phase watershed management plan in Greene County, PA. The project involved permit coordination, land easements, background studies of AMD seep locations, water collection design, underground mine mapping, borehole placement, pump sizing, and pipeline design.

Brian Osborn, P.E., our Senior Project Manager / Mining Engineer spent most of his professional career as a coal industry employee working for a Morgantown based Coal Company, as well as for the WV DEP Philippi Office prior to joining KLF. Mr. Osborn is well known in the mining industry as the Engineering

Manager for the Morgantown Mine Pool AMD Collection and Treatment Project. Brian, developed the concept, designed the system, and managed the operations for lowering an approximately 100-square mile Pittsburgh Coal Seam Mine Pool hundreds of feet, allowing for continued mining while treating the raw mine pool water for discharge improving local waterways.

Thomas Clark, the AMP Senior Scientist, spent the last 16-years serving as the Mine Drainage Program Coordinator for the SRBC managing all levels of abandoned mine remediation projects from AML reclamation to active / passive AMD treatment, refuse removal, and authoring watershed remediation strategies. Mr. Clark was the Project Manager for the Bear Run Watershed Renaissance Project in Indiana County, Pennsylvania. Nine construction phases were completed over a ten-year period which restored large sections of the Bear Run Watershed, a former highly impaired headwater tributary to the West Branch Susquehanna River, to a stream with many segments now protected by Wild Trout and Class A designations.

Aaron Pontzer, P.E. is a new addition to our AMP Program and brings his significant experience as the Watershed Manager of the PA DEP Moshannon District Mining Office (DMO) and as a former AML Reclamation Project Developer with PA DEP BAMR. Mr. Pontzer is serving as AMP's AMD /AML Design Lead and will be managing the technical scope for the Loyalsock Creek (White Ash #3) Passive Treatment System Redesign Project. Aaron also has a wealth of experience in erosion and sediment control, stormwater management, environmental permitting for infrastructure projects, and contract compliance.

Eric Oliver, who served as a Mine Inspector and Mineral Resources Program Specialist with PA DEP's Moshannon DMO, brings his well-rounded technical capabilities to the AMP team. Mr. Oliver brings significant experience in mine reclamation, permitting, compliance, managing bonding and bond forfeitures, working with surety companies on closure, GIS mapping, reforestation and revegetation, soil amendments, and site stabilization. For many years, Eric has served as PA's Liaison to the Appalachian Regional Reforestation Initiative and is considered a leader within the legacy mine reforestation sector.

Resumes for these five managers, as well as all AMP supporting staff can be found in Appendix C of this EOI.

Mine Reclamation / Treatment Projects

As mentioned, KLF is currently contracted by SRBC, and within the 60-Percent design deliverable, for the Morris Run AMD ATP in the Tioga River Watershed. According to PA DEP BAMR personnel, this plant may be the largest AMD-specific ATP in the world upon construction. The design consists of over 8-miles of gravity sewer and forced mains and five separate pump stations to convey raw discharge water to the ATP site and out to strategic treated water effluent points which will maximize stream-mileage gains. At the ATP site, the dual treatment-train plant contains two 90-ton silos, four mixing tanks, and two 112-foot diameter clarifiers to provide acid neutralization and metals precipitation. Sludge generated from the treatment process will be pumped to injection wells back into a strategic section of the deep-mine for storage disposal. Once completed, the Morris Run ATP will treat upwards of 15-MGD.

In addition, KLF was recently contracted by the Clean Streams Foundation (CSF), in partnership with PA DEP BAMR, and the Federal Office of Surface Mining (OSM), to replace the aging and existing Banning No. 4 and Euclid ATPs in Westmoreland County, PA along the Youghiogheny River. KLF's team of professionals, now within the 30-Percent design deliverable, has recommended replacing the existing infrastructure with

a mine-water pumping and treatment facility capable of treating up to 9.4-MGD of degraded mine pool water. The conceptual design also includes a new operations building and three vertical turbine pumps. This allows two of the mine dewatering pumps to be run as part of typical operations as one pump is held as standby for operational redundancy.

Other goals of the Banning No. 4 ATP Project include mine pool elevation maintenance, preventing other surface water breakouts from the mine pool, the treatment of the degraded mine water to very stringent standards, all for the preservation of the water quality of the Youghiogheny River. KLF services to meet these goals include engineering design, potable water engineering, permitting, operations and maintenance, and construction administration.

Just recently, KLF was awarded the contract to redesign passive treatment systems for the two deep-mine tunnel discharges impacting the headwaters of Loyalsock Creek in Sullivan County, PA. These very large flow acidic discharges were treated successfully with two passive systems constructed in the late 1990s. However, efficiency of those systems had begun to wain and slight water quality improvements in the raw discharge water could allow for a much larger percentage of the flow to be treated utilizing new passive treatment technologies. KLF will be redesigning these systems to increase the amount of flow treated at each (500 to 2,000 GPM at the B-Vien Discharge and 300 to 1,500 GPM at the C-Vein Discharge) while creating conditions within that treatment system that minimize thermal pollution of the mine water to improve the cold-water fishery found within Loyalsock Creek.

Additional project details for these three projects can be found in Appendix D of this EOI.

Proposed Methods of Deliverable and Goal Approach

Deliverable 1: Project Management / Administration

KLF's Project Manager and Project Administrator will complete the following tasks in relation to project management and administration during the completion of the Scope of Work (SOW).

- Complete meeting minutes for all meetings and telephone conversations where project decisions are made throughout the project life cycle.
- Cost updates as required by WV DEP.
- Project schedule development, within two (2) weeks following Notice-To-Proceed (NTP), and updates as required by WV DEP.
- Provide monthly project briefings for the project's life as required by WV DEP.
- Prepare Rights-of-Entry (ROE) agreements between landowner, firm, WV DEP, and OSM.

Deliverable 2: Historical Data Collection and Desktop Analysis

Prior to entering the site, KLF will complete historical background data collection and a desktop analysis for the project in question. Data collection and analysis could include:

- Threatened and endangered species investigation, analysis, and report generation.
- The potential for bat survey needs.
- Site data including items such as highwall length, estimated spoil volumes, historical water quality, deep-mine mapping, historical site pictures, possible site ownership, etc.
- Preliminary terrain imaging, property ownership, and LiDAR mapping.

Figure 1. Map with WV DEP N4 EOI project locations in relation to KLF offices in Bridgeport, WV, Oakland, MD, and Pittsburgh, PA.

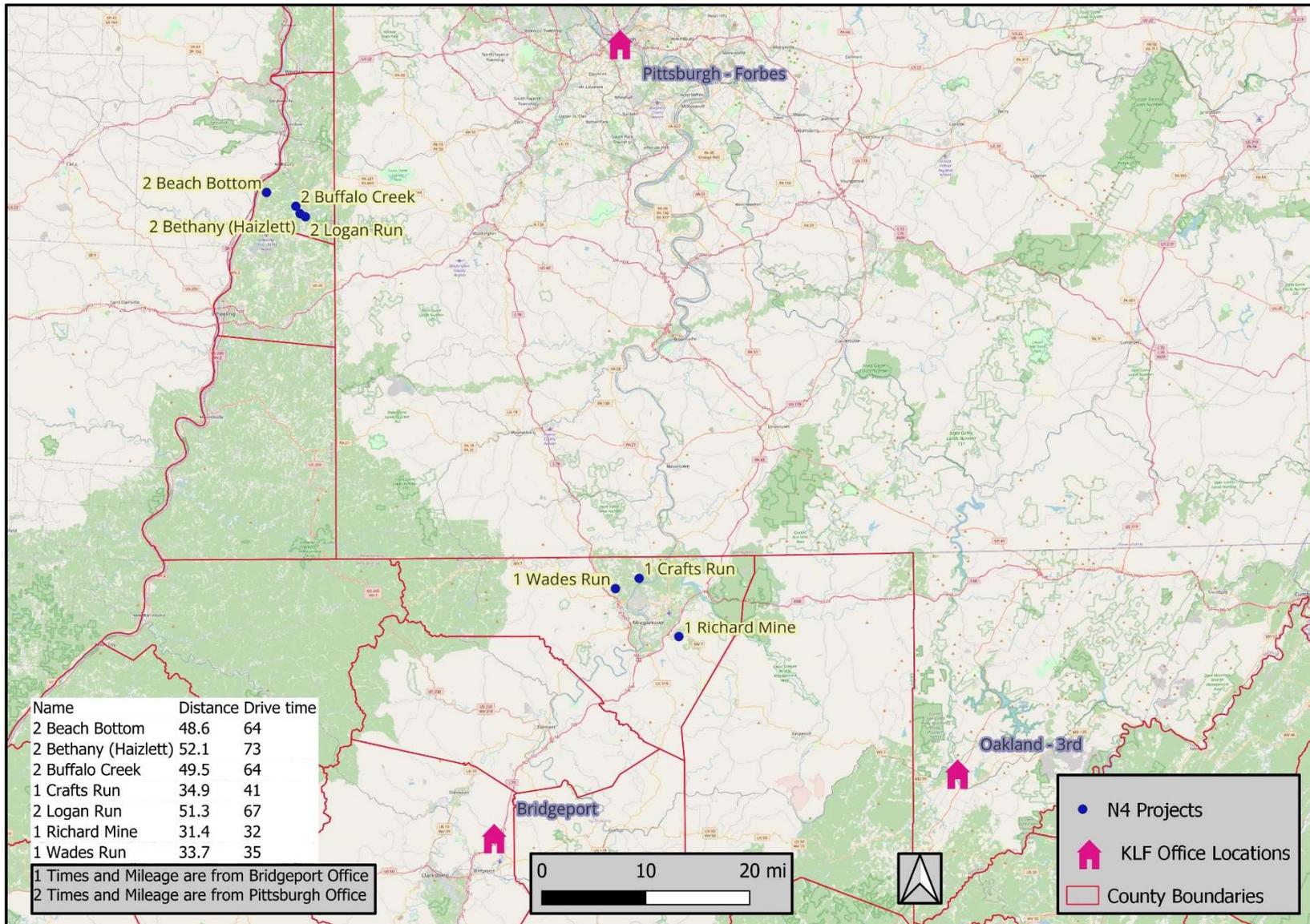


Table 1. WV DEP N4 Projects with Problem Area (PA) Number, PA Acreage, and AML Features to be reclaimed.

EOI Division	Project Name	PA#	PA Area (acres)	Open Potal	Collapsed Portal	Drainage Design	Dangerous Existing Structure	Access Roads	Spoil Remediation	Dangerous Highwall	Dangerous Slide	Subsidence	Clogged Stream	Trash Removal	Hadzerdous Waterbody	Sludge Remediation	New Treatment System	Dangerous Impoundment
N4	Beach Bottom Highwall	0239	330.19	x		x		x		x		x		x	x	x		
	Bethany (Haizlett) DS Highwall & AMD	7171	NA			x			x	x	x		x		x		x	x
	Buffalo Creek Highwall	1968	79.92			x		x	x	x	x						x	x
	Crafts Run Maintenance	0546	242.85	x		x		x	x	x						x		
	Logan Run Highwall	3013	55.53			x		x		x			x		x			
	Richard Mine Drainage Facility Upgrades	3738	30.24	Specialty Project														
	Wades Run Dangerous Embankment	6075	17.08	x		x	x	x	x					x		x		

Deliverable 3: Realty / ROE

With the acquisition of CE, KLF now has its own Right-of-Way (ROW) Program that can provide a full range of real estate services to public and private clients that need to acquire property or obtain ROW approvals for public work projects. KLF's staff of professionals has expertise in every phase of ROW process, from preliminary design to property acquisition to construction completion. By providing ROW clearances on schedule, within budget, and in compliance with federal and local regulations, KLF has successfully provided clearance for more than 100 major projects and completed thousands of appraisal assignments. KLF ROW Program anticipates:

- Courthouse research to determine legal property ownership.
- Obtaining exploratory ROEs for KLF, WV DEP, OSM
- Obtaining eventual Construction (ROE)
- Logging all landowner communications
- Property boundary survey data collection and reporting as needed.

Deliverable 4: Site Visit / Project Kick-Off Meeting

Once background data collection, the desktop analysis, and ROE agreements are obtained, KLF will coordinate a Site Visit / Project Kick-Off Meeting between KLF, WV DEP Project Managers and personnel, and the impacted landowners. The goals of the site meeting will be to discuss project scheduling, the historical data collection and desktop analysis completed, and to determine project deliverables and goals allowing KLF to move into field investigations leading to a conceptual design.

Deliverable 5: Survey Information and Geotechnical Investigations

KLF is assuming that LiDAR data, where available, will be sufficient to develop conceptual plans with contours (at two-foot intervals) for the project, additional field verification is assumed for the completion of Items 3 through 6.

- Utilize LiDAR data, where available, to obtain surveying and mapping to develop the conceptual project design plans (2' contours).
- Contact all affected property owners prior to field surveys.
- Locate and map all hazardous equipment or facilities, water features, structures, trails, access roads or any other important feature that will remain, be avoided, or be replaced in kind within the future work area.
- Locate all existing culvert pipes for hydraulic calculations.
- Field-locate all known utilities, including on-lot sewage systems and private water wells. Include one pole beyond the LOD (Limits of Disturbance) for utility alignment purposes.
- Edit mapping topography as needed for storm drains, utility facilities, and field located property corners.
- Geotechnical investigations will be completed to determine the engineering characteristics and surface / subsurface stratification to verify construction material suitability. Geotechnical could include, test pits, drilling / boring, and material sampling and testing.

Deliverable 6: Utilities

KLF has assumed that utility coordination and locates are necessary to minimize potential impacts to the design and construction of the site and will be dependent upon the project. Scope will be confirmed upon NTP and KLF will coordinate the following through to Final Construction Plans.

- Preliminary One-Call to be done and marked on the construction plans.
- Final One-Call required and incorporated into the Final Construction Plans.
- Coordinate any public utility impacts and incorporate the solution into the project.

Deliverable 7: Project Design Plans

KLF has assumed that design plans would be developed in the following order of completion. It is assumed that KLF will provide design deliverables in the standard WV DEP format.

- *Preliminary Design* – Includes conceptual site plan and a brief narrative to convey general understanding and assumptions made during this phase of design. Submitted electronically in PDF format to WV DEP for review. An in-person meeting would be held with one-round of review and revision with WV DEP which would include KLF's Project Team (Principal, Project Manager and Environmental / Civil Lead).
- *Pre-Final Design* – Issue for Bid Documents (IFB) to include drawings, technical specifications, and an engineer's cost estimate. Documents to be submitted electronically in DWG, Microsoft Word, and Excel formats, respectively. One round of review and revision is assumed for the pre-final design package. An in-person meeting with WV DEP will be held to review the document submission, which will include KLF's Project Team (Principal, Project Manager and Environmental / Civil Lead).
- *Final Design* – Includes the Final Design documents which will be signed and sealed by a licensed Professional Engineer in the State of WV. KLF assumes no revisions are necessary during this stage of design.

Deliverable 8: Permitting

KLF assumes that initial desktop assessments will be conducted for each site. Scope will be confirmed upon issuance of NTP, and coordination with WV DEP will be completed prior to any field investigations or delineations are completed. It is assumed that NPDES construction stormwater general permits, USACE consultations, WVDOH encroachment permits, and Department of Health permits may be necessary for the projects included within this submittal.

Deliverable 9: Project Construction Bidding

KLF assumes the following for services related to Project Bidding:

- KLF's PM, Principal and Civil Lead will attend the pre-bid meeting, document questions, and coordinate with WV DEP on responses for distribution.
- KLF offers assistance in reviewing the bids received to assist WV DEP with recommending award of the project to the successful bidder.

Deliverable 10: Construction Services

Upon award of the project to a qualified Contractor, KLF is assuming the following support during construction.

- KLF's PM and / or Civil lead will attend the pre-construction meeting, assisting in answering / documenting all questions discussed on Site.
- KLF will conduct review submittals to determine if the product proposed meets the project specifications, provide revised construction drawings or revised specifications for field adjustments or design modifications deemed necessary by WV DEP, OSM, the Contractor and / or KLF's representative.
- KLF will coordinate on-site construction meetings at an interval determined by WV DEP.
- KLF's PM and / or Environmental Lead will attend the final inspection meeting to ensure that all SOW items have been completed and the site has reached stabilization prior to the Contractor demobilizing from the project.

Summary of Staff Qualification and Experience

Success of a project stems from the commitment of the people dedicated to the goals. KLF's AMP Team, presented in our organizational charts and resumes, represent a multidisciplinary group that will work to ensure that all projects are completed as envisioned. This team is supported by a tremendous resource pool of professionals from throughout the WV, PA, MD, and OH area (and beyond) that will aid in providing quality project solutions for WV DEP.

The ability of KLF's AMP to provide the highest level of service with respect to project delivery is derived from having multiple, diverse managers with extensive experience in the delivery of multiple projects concurrently to cover the full spectrum of services anticipated under this agreement. All tasks will go through our Principal, Sami Pretzel, single point-of-contact, to be assigned to managers depending on the scope of services. Our depth of professionals provides us with flexibility and redundancy in service lines and capacity, providing the ability to pivot and provide additional support should priorities or conditions change.

As project assignments under this contract are defined, the project team chosen for each assignment will be carefully planned and consist of experienced professionals that are best suited to ensure the goals of WV DEP are met.

Appendices

- A. Kleinfelder Organizational Chart
- B. Abandoned Mines Program Flyer
- C. Kleinfelder Resumes
- D. Kleinfelder Project Fact Sheets
- E. Kleinfelder ROW Program Fact Sheet



Appendix A – Kleinfelder Organizational Chart



Appendix B – Abandoned Mines Program Flyer



Appendix C – Kleinfelder Resumes



Appendix D – Kleinfelder Project Fact Sheets



Appendix E – Kleinfelder ROW Program Fact Sheet

KLEINFELDER RIGHT-OF-WAY ACQUISITION CONSULTING SERVICES: PROFILE/ PROSPECTUS OF AND STATEMENT OF QUALIFICATIONS

FOR THE

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

KLEINFELDER REAL ESTATE/RIGHT-OF-WAY BACKGROUND:

Our Real Estate/ Right-of-Way team includes 35+ skilled professionals dedicated to facilitating acquisition, appraisal and property management programs for public infrastructure improvement projects. The team has developed extensively over the past five (5) years through the purchase of consulting firm **Interstate Acquisition Services (IAS) in 2018, then Century Engineering (Century) in 2021.**

These acquisitions have increased our quality assurance and project coordination programs. We have an outstanding reputation for completing quality work that fulfills our clients' goals and the public's needs. Our experience and past performance on similar projects acquiring real property rights along with our rigorous Quality Control Program provides the project team with effective and reliable resources.

WV DEP ABANDONED MINE LANDS PROJECT UNDERSTANDING OF REALTY WORK:

The subject agreement encompasses a variety of realty work necessary to advance Abandoned Mine Land projects from the conceptual stage through design and construction completion. Courthouse research services will be required to accurately identify all current ownership interests in subject parcels (including fee, easement holders and mineral rights). That information must be thoroughly documented and considered during the plan development phase.

Engagement with affected landowners to explain project objectives and secure Exploratory Rights of Entry (EROE) and Construction Rights of Entry (CROE) must be handled in an efficient manner to maintain project schedules. All contacts will be documented thoroughly and responses to landowner inquiries will be coordinated through the WV DEP. Additional notifications to property owners concerning construction activities are also expected to accomplish individual project initiatives.

KLEINFELDER RIGHT-OF-WAY ACQUISITION CAPABILITIES:

We understand that if selected as part of the Engineering Firm of Record team to provide real estate consulting services for the subject agreement, we will be fully engaged in assisting with assignments directly related to securing real property interests including title research, plan reviews, negotiation contacts to secure rights of entries, status tracking/reporting, thorough documentation of landowner transactions, and other tasks as directed. All documents used in the process will be consistent with WV DEP requirements as well as applicable State and Federal regulations, policies and guidelines; and will be maintained in complete and accurate form. Equally important is our staff's knowledge that maintaining current, complete, and accurate documentation of each landowner transaction is critical to project clearance success. We understand the efficiencies of using standardized forms for all matters related to an

individual property, such as: letters and signatures; ROE agreements; parcel file summary; negotiation records; property history; purchase contracts; easement agreements; and related matters. This will ensure that any challenges during construction activities can be completely and effectively addressed. It is also imperative that proper documentation be up-to-date, readily available, and well organized for any audits that may be performed by WV DEP or other regulatory agencies.

PROPOSED PROJECT PERSONNEL

The following staff members will be available for this agreement with additional resources available as needed:

- Kenneth Hawker – Sr. Program Manager / Sr. Project Manager, 25 years of experience
- Stacey Lytle – Sr. Project Manager, 18 years of experience
- Mason Young – Project Manager / Sr. Right-of-Way Agent, 15 years of experience
- Karen Cowell – Project Manager / Sr. Right-of-Way Agent, 13 years of experience
- Frank Molchen – Project Manager / Sr. Right-of-Way Agent, 8 years of experience
- Anthony DeFreitas – Project Manager / Sr. Right-of-Way Agent, 5 years of experience
- Phillip “Andy” Doherty – Chief Appraiser / 35 years of experience
- David Reynolds, QA/QC Manager / Sr. Right-of-Way Agent, 39 years of experience
- Cheryl Thomas – Sr. Title Agent / Sr. Right-of-Way Agent, 32 years of experience
- Amy Etterman – Title Agent / Right-of-Way Agent, 20 years of experience
- Amanda Jacobs, Right-of-Way Agent, 10 years of experience
- Ian Ramsay – Right of Way Agent, 9 years of experience
- Stacey Love, Right-of-Way Agent, 3 years of experience
- Kolton Tyler, Right-of-Way Agent, 3 years of experience
- Michael Whorral, Right-of-Way Agent, 2 years of experience

Our Team’s Key Staff is comprised of experienced Real Estate / Right-of-Way Professionals that have unquestioned combined experience in the appraisal, appraisal review, negotiation, relocation, asset/property management and full-scale project management capabilities. This allows for the selection of the proper staff for assigned tasks. Along with our continuous communication with the design team and WV DEP Representatives, our management approach identifies strategies, best practices and potential issues for the path forward on assigned tasks, creating opportunities for cost and time efficiencies. The names you see on our list of Key Staff are the same that you will see assigned to work on your tasks. In addition, the Staff selected for each task will remain assigned to that project for its duration, ensuring continuity for the duration of the task.

Mr. Ken Hawker, SR/WA, Sr. Program Manager / Sr Project Manager has 25 years in the field handling complex real estate assignments for a variety of public agencies involved with infrastructure improvement projects. He leads our real estate / ROW team and has extensive experience facilitating difficult ROW project deliveries. He will be responsible for planning, scheduling, organizing, and controlling resources to achieve clearance within project schedules.

Our Project Management team is comprised of Mrs. Stacey Lytle, Mr. Mason Young, Mrs. Karen Cowell, Mr. Frank Molchen and Mr. Anthony DeFreitas. This team provides vast coverage and can manage multiple large-scale projects concurrently. Collectively this group has delivered hundreds of projects and understands the critical importance of thoroughly detailing transactions and timely status reporting to

ensure schedules are maintained. These individuals will be responsible for conducting all quality checks on project ROE agreements and other correspondence.

This management team has the support of the rest of the company resources. Previously, our design team has been utilized to perform studies in support of ROW acquisition including: surveys, feasibility studies addressing potential of parcels before and after project impacts; water/wastewater studies; environmental services, access and circulation traffic studies; and the demolition of structures.

Kleinfelder also has GIS Database professionals that can be called upon to establish systems to track the progress of the acquisition/relocation/demolition process as well as the many functions associated with Property Management, such as inventory of improvements, leases, surplus property disposition, maintenance, and demolition activities.

EXPERIENCE / SIMILAR PROJECTS:

1. Since 2000, the Kleinfelder (Century) right-of-way team has held contracts with the Port Authority of Allegheny County (PAAC) as its On-Call Real Estate and Property Management consultant aiding with all right-of-way acquisitions for capital improvement projects as well as day to day operations with busways, rail operations, transit-oriented development activities and management services for its various park and ride lots and other real estate holdings.

In 2019, Kleinfelder (Century) was engaged thru the PAAC solicitor to provide right-of-way acquisition services for its Bus Rapid Transit project in the City of Pittsburgh. The project impacts 237 parcels involving partial take land-only acquisitions. To meet FTA requirements the project team was extensively involved with the preparation of a RAMP and maintains compliance with all associated regulations. To date, 229 claims have been cleared for construction as acquisition activities remain ahead of schedule.

Point of Contact: Michael J. Cetra, Chief Legal Officer; Tel #412-566-5245; email MCetra@PortAuthority.org

2. Kleinfelder (Century) has provided right-of-way acquisition services to the Montgomery County Transportation Authority over the past 10+ years. In the past three (3) years, we've assisted to clear projects including County Bridge # 163 (Lutheran Rd) and County Bridge # 274 (Henry Rd). We also assisted the Stantec team with the Ridge Pike Section B project in clearing over 10 parcels for construction despite impacts from the COVID-19 pandemic. Expert witness testimony was provided by Ken Hawker in successfully defending a litigation claim during a Board of Viewers hearing filed by Ronald and Susan Battaglia / Battaglia Auto Sales, Inc. stemming from the Lafayette Street Extension project.

Point of Contact: Matthew Popek, Transportation Planning Asst. Manager; Tel #610-278-3941; email mpopek@montcopa.org

3. Since 2006, the IAS/Kleinfelder (Century) team has been providing right-of-way acquisition services to PennDOT's Engineering District 6-0 for the AFC, BRI, BSR, CPR and GIR projects; each involving numerous sub-sections. The on-going interstate widening projects will reduce congestion on one of the busiest roadways in the nation and include numerous structure replacements and intersection/safety improvements. In total, hundreds of parcels have been impacted with a large volume of commercial and residential occupant relocations resulting. Design activities are not yet finalized for many of the sections – in total several hundred parcels are being impacted with large-scale displacements occurring.

Recently, we have secured right-of-way clearance certifications for I-95 construction sections AF3, BR0, BR1, BS1, BS2, GR5. Efforts are currently underway to finalize the AF2, BR3, BS5 and GR6 sections. Each remaining project contains unique challenges due to right-of-way impacts to highly valuable parcels containing commercial and industrial operations. The AF2 section involves the acquisition of real property interests from 12 parcels with two (2) large scale industrial relocations occurring. Section BS2 involved partial take acquisitions from five (5) high-profile commercial properties and is in the final stages of clearance. The GR6 project also impacts 12 total parcels but is resulting in the relocation of five (5) residential occupants and significant impacts to government owned parcels and a high-profile concert venue.

Our Trevoise office is responsible for appraisal planning, acquisition/ negotiation, relocation advisory assistance and property management services for all I-95 projects in compliance with the Uniform Relocation and Real Property Acquisition Act.

Point of Contact: Roger Joseph, R/W Administrator; Tel #610-205-6505; email rogjoseph@pa.gov

4. Kleinfelder (Century) was awarded separate contracts by the PTC to provide right-of-way acquisition services and property management and demolition services for improved parcels being acquired for the limited access new alignment expressway project in Sections 53A, 53B & 53C. The project will extend existing Toll Road 43 over 8 additional miles from its current terminus at Route 51 in Large, to Route 837 in Duquesne. Ultimately, the roadway will connect to Route 376 in Monroeville.

Right-of-Way Acquisition

Kleinfelder's team is currently responsible for 80 total take parcels that include the relocation of over 50 residential occupants and 4 business operations including a large-scale fabrication shop, a religious facility, an indoor flea market and a pay per use fishing lake. All of those parcels have been cleared for construction. An additional 45 partial take claims were assigned with significant impacts to various commercial, industrial and railroad operations and are 98% clear. Appraisal planning, negotiation and relocation advisory assistance services are being provided to the PTC for this vital transportation project.

Property Management

The Kleinfelder team is implementing an all-encompassing property management and demolition services program for the 150 improved parcels being acquired for the Mon-Fayette project. Numerous services are being provided, including but not limited to: site security /surveillance, grass mowing, snow removal, asbestos inspections & abatement, utility removal coordination and boundary surveys / property plot creation. The Kleinfelder team is also responsible for actual demolition work and construction inspection / liaison services to the PTC. Thus far 148 improved parcels have been cleared for construction.

Our staff is responsible for appraisal planning, acquisition/ negotiation, relocation advisory assistance and property management services in compliance with the Uniform Relocation and Real Property Acquisition Act.

Point of Contact: John Romano, Right-of-Way Administrator; Tel # 717-831-7195; email jromano@paturnpike.com

5. From 2010 - 2013, the IAS/Kleinfelder (Century) group provided right-of-way acquisition and real estate consulting services to CSX Transportation, Inc. to help facilitate double stack rail car operations on existing tracks throughout Western Pennsylvania including the following projects:

Coraopolis Pedestrian Walkway Removal – Coraopolis, Allegheny County, PA

POHC RR Bridge – McKees Rocks, Allegheny County, PA

Benford Tunnel Removal – Lower Turkeyfoot Township, Somerset County, PA

Pinkerton Tunnel Removal – Upper Turkeyfoot Township, Somerset County, PA

Brooke Tunnel Emergency Repair – Lower Turkeyfoot Township, Somerset County, PA

Church Street Bridge Replacement (SR 2037) – Garret Borough, Somerset County, PA

The projects impacted a variety of commercial, industrial, agricultural and residential properties. Our right-of-way group provided appraisal planning and valuation services, which involved obtaining numerous specialty reports to assess coal deposits and timberlands. Acquisition and negotiation services were also provided to secure rights of entry, access agreements, and to convey real property interests necessary to advance the projects to construction.

Point of Contact: Dan Elmaleh, Manager – Strategic Projects of CSX Real Property, Inc. (now retired); Rick Hood served as Asst. Vice President at the time of engagement. Corporate Headquarters

500 Water Street, 15th Floor, Jacksonville, FL 32202

WHY THE KLEINFELDER TEAM

The Kleinfelder real estate / Right-of-Way team brings together a highly qualified, versatile, and motivated group of individuals that have the knowledge and proven abilities in their respective areas. Our Team members have the required experience along with expertise from their extensive backgrounds to provide the WV DEP with an unparalleled depth of resources. What sets us apart from our competitors are our title research services and experience handling advanced, high-profile transactions to secure real property interests for our clients in an orderly and efficient manner. We are confident that our current knowledge and experience in performing all aspects of the proposed Realty Work Consultant services gives the WV DEP confidence that the Kleinfelder team can successfully complete any task assigned in a timely and cost-effective manner.

Should you require additional information, please contact me at the above telephone number or by email at khawker@kleinfelder.com

Respectfully,



Ken Hawker
Vice President / Sr. Program Manager