ΝΟΤΙΟΕ

Due to a mechanical error in one of the Purchasing Division's official time clocks on Tuesday, March 20 to Thursday, March 22, 2012, the stamp noted on some bids may have the correct day and time; however, the month that is noted is "February," but should have read "March."



Michael Baker Jr., Inc. A Unit of Michael Baker Corporation 4301 Dutch Ridge Road Beaver, PA 15009

724.495.7711 FAX 724.495.4017

March 20, 2012

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street, East Charleston, WV 25305-0103

Attention: Mr. Guy Nisbet, Buyer

Re: Expression of Interest for Professional Engineering Design Services and Construction Monitoring Services for the Lilbern Pritt Highwall Design, Barbour County, West Virginia RFQ Number DEP15596

Dear Mr. Nisbet:

Michael Baker Jr., Inc. (Baker) is pleased to submit this Expression of Interest to provide professional design engineering services for the above-mentioned project. To meet your design requirements, Baker has assembled a team of experienced personnel who have performed on previous similar assignments for the West Virginia Department of Environmental Protection (WVDEP). Our proposed design team members have also provided engineering services for numerous abandoned mine land reclamation and related projects over the years for a variety of clients as reflected in the attached documents.

We have illustrated our ability to deal with multiple projects without a reduction to the level of quality and service to the Department. Mapping, surveying, and exploratory drilling services, if required, will be provided by Triad Engineering Inc. or Test Boring Services Inc., both of which have a successful history of acting as sub-consultants for Baker and the WVDEP.

Baker's staff is experienced in all aspects of AML/AMD projects. Baker has been providing engineering services for abandoned mine lands since the Federal government first enacted AML legislation. We have provided these services for the West Virginia Department of Environmental Protection, the Pennsylvania Department of Environmental Protection, Ohio Department of Natural Resources, and the U.S. Office of Surface Mining to name a few. Our on-going experience since 1983 with WVDEP gives us the confidence to assure you our assignments will be completed on time and within established budgets.

This submittal illustrates our qualifications and experience to deal with this assignment of work arising from this contract. If you have any questions or require additional information concerning our qualifications, experience or approach, please contact me at 724.495.4273.

Sincerely,

MICHAEL BAKER JR., INC.

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Gregory P. Hydes, P.E. Project Manager



2012 FEB 21 AM 9: 59

W PURCHASING DIVISION

GPH/jm

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	Attachment "B" 🤝	25-1228638	FIRM NAME	6a. WV REGISTERED DBE (Disadvantaged Business	Enterprise) YES NO		8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS		 34 STRUCTURAL ENGINEERS 20 SURVEYORS/Technicians 15 TRAFFIC ENGINEERS 68 OTHER 32 (Project Managers) 	738 TOTAL PERSONNEL (Pittsburgh Area Offices)			DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia 1 of 34
	ENTAL PROTECTION TION QUESTIONNAIRE	FEIN	3. FORMER FIRM NAME	5	Ice	ACH OFFICE			CHITECTS IGINEERS ERS TRISTS AN/REGIONAL NEERS SS	WRITERS	I		Lilbern Pritt Highwall D
C	F ENVIRONM QUALIFICA	EAR) March 22, 2012	ADDRESS ad 15009	NER	Partnership Joint-Venture	CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE	8a. NAME, TITLE, &			CAT	MARY OFFICE: 23 that qualifies them to		DEP15596 -
	ST VIRGINIA DEPARTMENT O CONSULTANT CONFIDENTIAL	DATE (DAY, MONTH, YEAR) Marc	2. HOME OFFICE BUSINESS ADDRESS 4301 Dutch Ridge Road Beaver, Pennsylvania 15009	2	1940	/ PERSON IN CHARGE/ NO. AML	ad, Deavel, FA 13003/ 124. M 4302	nimum Design Team Members)	ECOLOGISTS ECONOMISTS ELECTRICAL ENGINEERS ENVIRONMENTALISTS ESTIMATORS GEOLOGISTS HISTORIANS	OLOGISTS	TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 2 * RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.		
	WEST AML CO	gn, inia		5. ESTABLIS		S/ TELEPHONE	ABERS OF FIRI ent 724.495.	ng Indicates Mi		13 HYDR	GISTERED PRO fining must pro type of work.		Protection
C		PROJECT NAME Lilbern Pritt Highwall Design, Barbour County, West Virginia (DEP15596)	1. FIRM NAME Michael Baker Jr., Inc.	4. HOME OFFICE TELEPHONE	724-495-7711	7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN	William D. Trimbath, Vice President 724.495.4302	9. PERSONNEL BY DISCIPLINE (Bold Lettering Indicates Minimum Design Team Members)		62 DESIGNERS 0 DRAFTSMEN	TOTAL NUMBER OF WV REGISTERED PROFESSIONAL * RPEs other than Civil and Mining must provide suppor supervise and perform this type of work.	AFRENN FEITHNEN FINNEN SIDE SVE UN	West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire

C		
11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTIC	ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification	ntial Qualification
	SPECIALTY:	WORKED WITH BEFORE
P.O. Box 1435 P.O. Box 1435 CO. To	Drilling, Soil Testing, and Surveying	X Yes (15+ years)
4960 Teays valley Koad St. Albans, West Virginia, 25177		8
NAME AND ADDRESS: Test Boring Services Inc. (IF Required)	SPECIALTY: Drilling/geotechnical exploration and monitoring	WORKED WITH BEFORE
14U Mong Koad Scenery Hill PA 15360	assistance	No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		PZ I
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
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		No
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE
		No
West Virginia Department of Environmental Protection		

AML Consultant Qualification Questionnaire

2 of 34 DEP15596 - Lilbern Pritt Highwall Design, Barbour County, West Virginia

12. RELEVANT EXPERIENCE. Include number of projects per each discipline	jects per each discipline	
A. Is your firm's personnel experienced in Abandoned Mine Lands	oned Mine Lands Remediation/Mine Reclamation Engineering?	
YES Description and Number of Projects: Baker has been assisting state and f 1977. Baker's experience began wit control, mine sealing, reclamation of streams and wetlands, landslide cor Baker has been assisting West Virgi Engineering design services ever sir assisting PADEP with AML reclamat this CCQQ shows our experience or	Description and Number of Projects: Baker has been assisting state and federal agencies with abandoned mine land (AML) restoration and acid mine drainage (AMD) remediation since 1977. Baker's experience began with Operation Scarlift and now includes well over 200 AML/AMD remediation projects ranging from subsidence control, mine sealing, reclamation of mine refuse piles, strip pit and high wall; drainage improvements, revegetation, stream relocation, restoration of streams and wetlands, landslide correction, and replacement of water supplies affected by abandoned mine lands to abatement of AMD problems. Baker has been assisting West Virginia Department of Environmental Protection with Abandoned Mine Lands Remediation/Mine Reclamation Engineering design services ever since WVDEP initiated its AML Reclamation Program in 1983. In addition to WVDEP, we are also currently assisting PADEP with AML reclamation and AMD remediation designs. The "AML and related Project Experience Matrix" table provided at the end of this CCQQ shows our experience on waterline extension and AML related projects for different state agencies and for private clients.	In drainage (AMD) remediation since In projects ranging from subsidence ation, stream relocation, restoration of nds to abatement of AMD problems. Remediation/Mine Reclamation WVDEP, we are also currently note Matrix" table provided at the end of and for private clients.
B. Is your firm experienced in Soil Analysis?		
YES Description and Number of Projects: In designing AML reclamation projec soil analysis for revegetation potentia selecting and collecting the soil sam subcontractor. Of the thirty (30) mos	Description and Number of Projects: In designing AML reclamation projects, generally three types of soil analysis are needed. These analyses may include: a) geotechnical analysis, b) soil analysis for revegetation potential (pH, Acid Base Accounting, Nutrients) and c) soil analysis for hazardous materials. Baker is involved in selecting and collecting the soil samples and analyzing the results of laboratory testing as required for design. Laboratory testing is performed by a subcontractor. Of the thirty (30) most recent AML projects, Baker was involved in soil analysis for 19 projects.	r include: a) geotechnical analysis, b) materials. Baker is involved in Laboratory testing is performed by a
C. Is your firm experienced in hydrology and hydraulics?	draulics?	
YES Description and Number of Projects: Baker's hydrology and hydraulic staf HEC-RAS, HY8, TR20, TR55, HAES this experience to services such as a modeling; channel design; watershe Expertise in hydrology and hydraulic twenty six (26) projects needed hydr	Description and Number of Projects: Baker's hydrology and hydraulic staff for AML/AMD remediation design are experts in the application of hydraulic models that include HEC-1, HEC-2, HEC-RAS, HY8, TR20, TR55, HAESTADS PONDS 2, FLOWMASTER, KYPIPE 2, CYBERNET, SEDCAD 4, UNET, and DAMBRK. Baker applies this experience to services such as stormwater management; culvert analysis; hydrologic and hydraulic studies; storm sewer design; floodplain modeling; channel design; watershed planning; energy dissipation; and waterline extension and distribution. Expertise in hydrology and hydraulics is essential in any AML reclamation/AMD remediation design. Of the thirty (30) most recent AML projects, twenty six (26) projects needed hydrology/hydraulics expertise of the AML/AMD design group.	lic models that include HEC-1, HEC-2, NET, and DAMBRK. Baker applies s; storm sewer design; floodplain rty (30) most recent AML projects,
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia	bour County, West Virginia 3 of 34

Ċ	Does your firm produce its own Aerial Photography and Develop Contour Mapping?
	YES Description and Number of Projects: Since 1983 Baker has been designing AML/AMD remediation projects for WVDEP. For all the projects to date, Baker was provided by WVDEP with contour maps developed from aerial photography of the project site. Baker's responsibility was to verify the topographic map by check field surveying.
	Baker has a survey and photogrammetric department with a staff of 82. Baker routinely performs aerial photography and contour mapping for federal and several state agencies as well as for private clients. Baker's Survey and Photogrammetric Department is as old as the company itself. During the last five years Baker has completed more than 50 mapping projects. Some examples are listed as follows:
	Updating Boundary/Site Improvements and Utility Survey – 23 LPOEs, North and South US Borders, US-VISIT (Photogrammetric Mapping and Surveying Services)
	Rio Grande Valley Border Fence Boundary Surveys, Cameron and Hidalgo Counties, TX, U.S. Army Corps of Engineers, Forth Worth District (Metes and Bounds Surveys and Legal Deed Descriptions)
	Land Port of Entry (LPOE) Aerial Mapping Refresh, North and South US Borders , Department of Homeland Security, US-VISIT (Mapping)
	Sewer Infrastructure Location/Verification, Allegheny County, PA, 3 Rivers Wet Weather, Inc., (GPS or Conventional Survey Data by Others)
	Open-End Contract for Surveying and Photogrammetric Mapping Services, Statewide Pennsylvania, Pennsylvania Department of Transportation (Through a series of nine open-end contracts, Baker has been providing surveying and mapping services to PennDOT continuously since 1986. Our current contract E01292 runs through November 2012)
	Indefinite Delivery Contract A/E for Multidiscipline & Related Services for Dept. of Homeland Security and other Civil/Military Projects, U.S. Army Corps of Engineers, Forth Worth District (Surveying and Mapping)
	Border Fence Project – PF225, Various Locations in TX, AZ, NM CA, U.S. Army Corps of Engineers, Fort Worth District (Aerial Photography, Analytical Aerotriangulation, Stereo Mapping Compilation, Digital Orthophotography, Horizontal and Vertical Control Surveys, Geodetic Surveys)
	Land Port of Entry (LPOE) Aerial Mapping Refresh, North and South US Borders, Department of Homeland Security, US-VISIT (Aerial Photography, Stereo Mapping Compilation/Topographic Mapping, Horizontal and Vertical Control Surveys, Geodetic Surveys)
	Digital Orthophoto Production, Scottsdale, AZ, City of Scottsdale (GPS Control Surveys, Color Aerial Photography, Analytical Aerotriangulation, Digital Terrain Modeling, Digital Contour Mapping, Digital Orthophotography)
	Cuyahoga County, Ohio CEGIS, Cuyahoga County, Ohio, Cuyahoga County (Data Survey, GPS Ground Control, Digital Orthophotos, Parcel Mapping)
	Coordinated County GIS, Allegheny County, PA, Allegheny County GIS Department (Aerial Photography, Digital Terrain Modeling, Color Digital Orthophoto Production, Map Edit)

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ur fi	<u>Description and Number of Projects</u> Baker, to date, has designed eight (8) domestic waterlines for WVDEP and countless others for clients in West Virginia, Pennsylvania, Ohio, and elsewhere. In general, for each of these projects, Baker performed field surveying of proposed routes, subsurface investigation for storage tank site foundations, water distribution system hydraulic modeling and analyses, pipeline design, storage tank sizing, sizing and designing booster pumping station, and electric and telemetric system. For McDowell County Public Water Supply System, Baker also designed a water treatment and filtration plant. Construction plans, specifications, cost estimate and bid schedules were prepared for each project. Prior to designing each of the waterlines, under separate work directives from WVDEP, Baker performed water resources studies for each project area to determine if the pre-law mining had impacted the aquifer of the area from which the area residents got their water supply. Water resource studies involved evaluation of mining activities in the project area with regard to date and time of mining, and the effect of mining on the local aquifers and groundwater quality based on hydrogeologic data, resident interview, water sampling and testing. To date Baker has performed more than thelve (12) water resources studies.	clients in West Virginia, Pennsylvania, Ohio, and routes, subsurface investigation for storage tank site e tank sizing, sizing and designing booster pumping Baker also designed a water treatment and filtration ch project. erformed water resources studies for each project a residents got their water supply. Water resource if minion and the effect of minion on the local activitien
Is your fi	ate, has designed eight (8) domestic waterlines for WVDEP and countless others for c In general, for each of these projects, Baker performed field surveying of proposed ru s, water distribution system hydraulic modeling and analyses, pipeline design, storage i electric and telemetric system. For McDowell County Public Water Supply System, I struction plans, specifications, cost estimate and bid schedules were prepared for eac signing each of the waterlines, under separate work directives from WVDEP, Baker pe ermine if the pre-law mining had impacted the aquifer of the area from which the area olved evaluation of mining activities in the project area with regard to date and time of water quality based on hydrogeologic data, resident interview, water sampling and tee water resources studies.	clients in West Virginia, Pennsylvania, Ohio, and routes, subsurface investigation for storage tank site e tank sizing, sizing and designing booster pumping Baker also designed a water treatment and filtration ch project. erformed water resources studies for each project a residents got their water supply. Water resource if mining and the effect of mining on the local aduiter
Is your fi	igning each of the waterlines, under separate work directives from WVDEP, Baker pe ermine if the pre-law mining had impacted the aquifer of the area from which the area olved evaluation of mining activities in the project area with regard to date and time of water quality based on hydrogeologic data, resident interview, water sampling and tee water resources studies.	erformed water resources studies for each project a residents got their water supply. Water resource if mining and the effect of mining on the local aguiter
ls your fir Evaluatio		esting. To date Baker has performed more than
	ls your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?	
YES Description	Description and Number of Projects:	
Baker is wel active and p the flows and are most im Three of the Remediation except the M	Baker is well experienced in the evaluation of acid mine drainage and the design of AMD abatement measures. Design experience includes both active and passive treatment system. Evaluation and design of AMD abatement system is based on the characterization of the AMD site as well as the flows and chemistry of the AMD. AMD sampling for chemical parameters as well as the flow measurements covering high and low flow periods are most important in developing AMD abatement system. To date Baker has evaluated and designed fourteen (14) AMD abatement systems. Three of these fourteen projects – one for PADEP (Dumans AMD Treatment), an active system, and the other two for the ODNR (Lindentree AMD Remediation and Mineral Zoar Road AMD project which is under construction.	ment measures. Design experience includes both ed on the characterization of the AMD site as well as v measurements covering high and low flow periods esigned fourteen (14) AMD abatement systems. , and the other two for the ODNR (Lindentree AMD ecently constructed and are currently in service
Baker has d (OLC), Anae Drains. Oth	Baker has designed seven (7) AMD remediation projects for WVDEP. AMD remediation measures designed included: Open Limestone Channel (OLC), Anaerobic and Aerobic Wetlands and settling ponds, Limestone Sand dumping in the stream, and Alkaline Leach Bed/Anoxic Limestone Drains. Other AMD abatement designs were made for Baltimore and Nashville Districts of the U.S. Army Corps of Engineers.	ires designed included: Open Limestone Channel eam, and Alkaline Leach Bed/Anoxic Limestone J.S. Army Corps of Engineers.

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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE	CIPALS AND ASSOCIATES RESPONSIE	HE FOR AML PRO	FOR AML PROJECT DESIGN. (Furnish complete	complete	
odictional receip to opsicilitation in NAME & TITLE (Last, First, Middle Int.)		YEARS O	YEARS OF EXPERIENCE		
Trimbath, William, D., P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML F EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	VTERLINE
Vice President	10		16	7	
Brief Explanation of Responsibilities					
William D. Trimbath, P.E. is Vice President and Office Principal of Baker's engineering offices in western Pennsylvania. These offices provide civil, mining, municipal, geotechnical, pipelines, mapping and telecommunications services to a variety of clients. More than 100 Baker professional and technical employees serve our clients out of offices in Pittsburgh, Moon Township (Allegheny County) and Brighton Township (Beaver County) under the leadership of Mr. Trimbath.	ncipal of Baker's engineering offices in western Aore than 100 Baker professional and technical of Mr. Trimbath.	Pennsylvania. These employees serve our	offices provide civil, mining, clients out of offices in Pitts	municipal, geotechnical, pipeli burgh, Moon Township (Alleghe	nes, mapping eny County) an
Mr. Trimbath, who has been at Baker for over 20 years, will oversee general civil activities and management of projects and services provided by Baker teams in this location. He has over 34 years experience in civil, environmental and geotechnical engineering. Most recently he worked for Baker Environmental and managed \$100 million in Navy CLEAN activities including over 200 environmental investigation and remediation programs. He also has extensive experience in water and wastewater design and geotechnical construction.	ill oversee general civil activities and management of projects and services provi eering. Most recently he worked for Baker Environmental and managed \$100 mil insive experience in water and wastewater design and geotechnical construction.	ent of projects and se onmental and manag yn and geotechnical o	rvices provided by Baker tex ed \$100 million in Navy CLE onstruction.	ams in this location. He has ov AN activities including over 20	er 34 years 0 environmenta
Engineering Services. Pittsburgh Water and Sewer Authority (PWSA). Project Director. Baker has been providing services to PWSA since 1989 for a variety of projects including: Development of a Long-Term Control Plan for Combined Sewer Overflow; Fox Chapel Pump Station and rising Main; Feasibility Study of the Highland Park Reservoir No. 1 Cover; Herron Hill Reservoir Reconstruction and Cover Project; and the Bedford Reservoir Potable Water Storage Tank.	uthority (PWSA). Project Director. Baker has Fox Chapel Pump Station and rising Main; Fea ater Storage Tank.	been providing servic sibility Study of the Hi	es to PWSA since 1989 for ghland Park Reservoir No. 1	a variety of projects including: D I Cover; Herron Hill Reservoir F	Development of Reconstruction
Dennison/Route 800 Reclamation Project for the Ohio Department of Natural Resources (ODNR) - Uncontrolled drainage and seepages from coal and clay mines causing metal precipitation in roadside ditch and over flowing onto a major high creating hazardous driving condition. The reclamation plan was developed following test drilling to identify AMD sources. Abatement design included an underdrain to intercept seepage. a sedimentation pond followed by wetland to precipitate iron, improving road-side ditch and the drainage outlet to nearby stream; preparation of construction plans, specifications, and cost estimate are part of this project.	Department of Natural Resources (ODNR) - Uni g hazardous driving condition. The reclamation i followed by wetland to precipitate iron, improvi	controlled drainage an plan was developed fr ng road-side ditch and	d seepages from coal and c blowing test drilling to identi the drainage outlet to near	lay mines causing metal precip by AMD sources. Abatement de by stream; preparation of const	sitation in esign included truction plans,
Hardy Coal Company Bond Forfeiture Reclamation Project for the <i>Ohio Department of Naturals Resources</i> . The project involved surveying and mapping, reviewing geological data, mine maps; and providing design of the reclamation measures for the site including environmental assessment, regarding, collection ditches, stream relocation, placement of soil cover revegetation; and preparation of construction plans, specifications and cost estimates.	oject for the <i>Ohio Department of Naturals Reso</i> including environmental assessment, regarding	urces. The project in , collection ditches, st	volved surveying and mappi ream relocation, placement	ng, reviewing geological data, n of soil cover revegetation; and	nine maps; and preparation of
Maple Run Portals and AMD Reclamation for the West Virginia Division of Environmental Pro beds and aerobic Wetland; preparation of construction plans, specifications, and cost estimate.	Virginia Division of Environmental Protection - ' ans, specifications, and cost estimate.	Γest drilling, site gradi	ng, sealing mine openings, (Environmental Protection - Test drilling, site grading, sealing mine openings, drainage design, AMD treatment with limestone and cost estimate.	nt with limeston
Emoryville Mine Complex Reclamation for the West Virginia Division of Environmental Protection - Test drilling, water quality date review and site survey; design of AMD abatement including open limestone channels, SAPS, aerobic wetlands, in-stream AMD treatment with limestone fines, E & S Control, drainage design including diversion and collection ditches and underdrain; site grading and revegetation; construction plans, specifications, and cost estimate.	ginia Division of Environmental Protection - Te: MD treatment with limestone fines, E & S Cont estimate.	tt drilling, water quality ol, drainage design ir	/ date review and site surve cluding diversion and collec	y; design of AMD abatement in tion ditches and underdrain; sit	cluding open ie grading and
Feasibility Study for Ecosystem Restoration, Ely and Pucket Creek Subbasins of Powell River, Virginia for the Nashville District, U.S. Army Corps of Engineers - Site evaluation including geotechnical investigation, review of water quality data, determination of AMD sources at four sites, evaluation of AMD abatement alternatives; AMD abatement design including SAPS Cells, open limestone channel, metal precipitation ponds, aerobic wetlands and alkaline soil amendment; site grading, mine seals, diversion and collection ditches, E & S control, stream relocation; and preparation of plans, cost estimate and feasibility report.	Pucket Creek Subbasins of Powell River, Vin etermination of AMD sources at four sites, evalu lands and alkaline soil amendment; site grading	ginia for the Nashvill ation of AMD abatem , mine seals, diversio	 District, U.S. Army Corps of ent alternatives; AMD abate and collection ditches, E 8 	of Engineers - Site evaluation in ment design including SAPS C & S control, stream relocation; a	ncluding cells, open and preparation
EDUCATION (Degree, Year, Specialization) Doctoral Studies, Orvi Engineering; M.S., 1978, Civil Eng	Owi Engineering; B.S., 1974, Civil Engineering				
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineers American Society of Civil Engineers, Pittsburgh Ceotechnical Group, Chairman, 1986-1987 Society of American Military Engineers, Environmental Action Committee, Secretary Engineering Society of Western Pennsylvania	tical Group, Chairman, 1986-1987 Stion Committee, Secretary	REGISTRA Profession	REGISTRATION (Type, Year, State) Professional Engineer, 1978, PA		
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire		DEP15596 – Lilbe	rn Pritt Highwall Design, Ba	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia	6 of 34

NAME & TITLE (1 act Firet Middle Int)			
NAME & ITTE (LAST, FIRST, MIGUIE ITT.)		I EARS OF EXPERIENCE	
Hynes, Gregory P., P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Project Managen/Senior Engineer	1.7	1.2	GZ
Brief Explanation of Responsibilities Mr. Hynes is an engineer with a background in reclamation of abandoned mine lands, including acid mine drainage abatement, earthwork and grading plans preparation, hydrologic and hydraulic analysis, and erosion and sediment control structures. He also has extensive experience in the design of water distribution systems, hydraulic structures, and sanitary collection systems; and permitting of mining facilities. At Baker, he has worked on over thirty abandoned mine land reclamation projects which include reclamation of coal refuse ples, sealing of mine portals, grouting for mine subsidence, treatment of passive and active water, evaluation of pre-law mining impacts on drinking water supplies, and restoration of stream channels. Many of these projects have been for the West Virginia Department of Environmental Protection, Abandoned Mine Lands and Reclamation Office. He has also served as project engineer for over 30 water distribution projects located in Ohio, Pennsylvania, and West Virginia.	ion of abandoned mine lands, including acid mine le also has extensive experience in the design of w ty abandoned mine land reclamation projects whic uation of pre-law mining impacts on drinking water loned Mine Lands and Reclamation Office. He has a	drainage abatement, earthwork and gradir ater distribution systems, hydraulic structu ch include reclamation of coal refuse piles, supplies, and restoration of stream chanr also served as project engineer for over 30	e lands, including acid mine drainage abatement, earthwork and grading plans preparation, hydrologic and hydraulic xperience in the design of water distribution systems, hydraulic structures, and sanitary collection systems; and permitting nd reclamation projects which include reclamation of coal refuse piles, sealing of mine portals, grouting for mine ig impacts on drinking water supplies, and restoration of stream channels. Many of these projects have been for the West Reclamation Office. He has also served as project engineer for over 30 water distribution projects located in Ohio,
Wymer Portals and Refuse & Davidson Highwall, Monongalia County, WV. West Virginia Department of Environmental Protection. Project Manager/Senior Engineer. Arranged for mapping and drilling by subconsultants, oversaw assistant engineers, performed research of geological data and mining maps. review of water quality data, preparation of USACE and WVDOH permits for stream channel relocation and highway crossings. Prepared construction plans and specifications and attendance at pre-bid and preconstruction meetings for the project which included erosion and sedimentation control measures, site grading, mine seals, bat gates, reestablished and relocated stream channels, open limestone channels, collection and diversion ditches, backfilling a dangerous highwall, soil cover placement, and revegetation.	prongalia County, WV. West Virginia Department performed research of geological data and mining instruction plans and specifications and attendance is, bat gates, reestablished and relocated stream (it of Environmental Protection. Project Mar a maps. review of water quality data, preps e at pre-bid and preconstruction meetings channels, open limestone channels, collec	ager/Senior Engineer. Arranged for mapping and rration of USACE and WVDOH permits for stream for the project which included erosion and tion and diversion ditches, backfilling a dangerous
Chalk Mountain Mine and Dump Site 4, Spruce Pine, N.C. The Feldspar Corporation. Project Manager. Duties included site investigation and preparation of disposal and reclamation plans for a strip mine including E&S controls and ponds, surface water ditches, soil cover placement, and revegetation. The project included review of available site rock and soils data, design and preparation of construction plans, narratives, and specifications.	, N.C. <i>The Feldspar Corporation</i> . Project Manager ditches, soil cover placement, and revegetation. Th	. Duties included site investigation and pre le project included review of available site	paration of disposal and reclamation plans for a s rock and soils data, design and preparation of
Miller Mountain Feasibility Study, Preston County, WV. West Virginia Department of Environmental Protection. Senior Engineer. Provided conceptual water system evaluation and distribution system extension requirements including design, cost estimate, and narrative as part of a feasibility report which assessed pre-law mining impacts to local groundwater and provided water supply alternatives including the extension of a nearby distribution system.	VV. West Virginia Department of Environmental Pr stimate, and narrative as part of a feasibility report ion system.	otection. Senior Engineer. Provided conce which assessed pre-law mining impacts t	eptual water system evaluation and distribution o local groundwater and provided water supply
Kempton Refuse and AMD, Tucker County, WV. West Virginia Department of Environmental Protection. Senior Engineer. Performed research of geological data and mining maps, review of water quality data, and design of acid mine drainage abatement measures, including open limestone channels, a limestone pond, a Successive Alkalinity Producing System, and an aerobic wetland. Prepared construction plans and specifications and attendance at pre-bid and preconstruction meetings for the project which included erosion and sedimentation control measures, site grading, mine seals, rock underdrains, collection and diversion ditches, backfilling a dangerous highwall, soil cover placement, revegetation, and reforestation.	ist Virginia Department of Environmental Protection in measures, including open limestone channels, i indance at pre-bid and preconstruction meetings fo backfilling a dangerous highwall, soil cover place	t of Environmental Protection. Senior Engineer. Performed research of g open limestone channels, a limestone pond, a Successive Alkalinity preconstruction meetings for the project which included erosion and s ous highwall, soil cover placement, revegetation, and reforestation.	geological data and mining maps, review of wate Producing System, and an aerobic wetland. edimentation control measures, site grading, min
Fort Gordon Mine Closure Plans, Augusta, Georgia, US Army Corps of Engineers, New Orleans District. Task Manager Duties included site investigation and preparation of reclamation plans including E&S controls, surface water ditches, soil cover placement, backfilling of highwalls, and revegetation as required for permanent closure of seven mining sites at Fort Gordon, Georgia. The project included review of available site water, rock, and soils data, design and preparation of construction plans, narratives, and specifications.	US Army Corps of Engineers, New Orleans Distri r placement, backfilling of highwalls, and revegetat a soils data, design and preparation of construction	ct. Task Manager Duties included site inve tion as required for permanent closure of s I plans, narratives, and specifications.	stigation and preparation of reclamation plans seven mining sites at Fort Gordon, Georgia. The
Borgman Portals and Refuse, Preston County, WV. West Virginia Department of Environmental Protection. Senior Engineer. Duties included research of geological data and mining maps, review of water quality data, and initial design of acid mine drainage abatement measures including open limestone channels, limestone ponds, and aerobic wetlands. Final design was provided without wetlands and ponds per request of the client. Prepared construction plans and specifications and attendance at pre-bid and preconstruction meetings for the project, which included site grading, mine seals, collection and diversion ditches, soil cover placement, and revegetation.	West Virginia Department of Environmental Protec ge abatement measures including open limestone ion plans and specifications and attendance at pre and revegetation.	<i>tion.</i> Senior Engineer. Duties included res channels, limestone ponds, and aerobic v-bid and preconstruction meetings for the	earch of geological data and mining maps, review vetlands. Final design was provided without wetlar project, which included site grading, mine seals,
Powell River Ecosystem Restoration Project, Virginia. U.S. Army Corps of Engineers, Nashville District. Senior Engineer. Performed research of geological data and mining maps, review of water quality data, and design of acid mine drainage abatement measures, including aerobic wetlands, successive alkalinity producing systems, metals settling ponds, open limestone channels, and fly ash soil anter Appende plans, specifications, and detailed cost estimates for the project, which included site grading, mine seals, collection and diversion ditches, soil cover, and revegetation. EDUCATION (Degree, Year, Specialization) and Magneering Magneering Magneering and Magneering Magneering, mine seals, collection and diversion ditches, soil cover, and revegetation. M.S., 1997, OVI Engineering, B.E., 1987, CWI Engineering	a. U.S. Army Corps of Engineers, Nashville Districent measures, including aerobic wetlands, success letailed cost estimates for the project, which including	At. Senior Engineer. Performed research or ive alkalinity producing systems, metals se ive alte grading, mine seals, collection and ed site grading.	f geological data and mining maps, review of wate ettling ponds, open limestone channels, and fly as diversion ditches, soil cover, and revegetation.
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State) Professional Engineer, 1998, WV; Professional Engineer, 1993, Professional Engineer, 1998, OH, Professional Engineer, 2001, V/	fessional Engineer, 1993, PA ssional Engineer, 2001, VA

101 04 UEP15596 - Lilbern Pritt Highwall Design, Barbour County, West Virginia

15. PERSU	PRINCIPALS AND ASSOCIATES RESPON	ALE FOR AML PROVET DESIGN (Furnish comolete	(Furnish comolete
Data but keep to essentials)			
NAME & 111 LE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC WATERLINE DESIGN
Dziubek, John A., P.E. Project Manager	17	EXPERIENCE: 15	EXPERIENCE: 7
Brief Explanation of Responsibilities			-
Mr. Dziubek has performed and managed engineering and design projects for more than 30 years. The projects range from subsurface investigations; building, industrial, and heavy and h foundations; and site closures at industrial facilities; to remedial design and remedial action at Superfund sites. He has managed public and private sector projects for the Corps of Engine State DOT's, and major industrial clients. Larger projects have ranged from \$10 million to \$10 million and have required civil, geotechnical, mining and environmental engineering expertise.	ng and design projects for more than 30 years. The remedial design and remedial action at Superfigects have ranged from \$1 million to \$10 million a	re projects range from subsurface investig und sites. He has managed public and pri ind have required civil, geotechnical, minin	Mr. Dziubek has performed and managed engineering and design projects for more than 30 years. The projects range from subsurface investigations; building, industrial, and heavy and highway foundations; and site closures at industrial facilities; to remedial design and remedial action at Superfund sites. He has managed public and private sector projects for the Corps of Engineers, U.S. Navy, State DOT's, and major industrial clients. Larger projects have ranged from \$10 million and have required civil, geotechnical, mining and environmental engineering expertise.
Chalk Mountain Dump Site 4. Spruce Pine, N.C. The Feldspar Corporation. Project Manager. Duties included site investigation and preparation of plans and permit submission documents for a disposal area at an existing feldspar strip mine including slope stability analysis, grading, E&S controls, sedimentation pond enlargement, surface water ditches, soil cover placement, final reclama plans, and revegetation. The project included review of available site rock and soils data, design and preparation of construction plans, cost estimates, narratives, and specifications.	The Feldspar Corporation. Project Manager. Dutie ding slope stability analysis, grading, E&S control of available site rock and soils data, design and	es included site investigation and preparati ls, sedimentation pond enlargement, surfa preparation of construction plans, cost est	Chalk Mountain Dump Site 4. Spruce Pine, N.C. The Feldspar Corporation. Project Manager. Duties included site investigation and preparation of plans and permit submission documents for a disposal area at an existing feldspar strip mine including slope stability analysis, grading, E&S controls, sedimentation pond enlargement, surface water ditches, soil cover placement, final reclamation plans, and revegetation. The project included review of available site rock and soils data, design and preparation of construction plans, cost estimates, narratives, and specifications.
Various Reserve Analyses and Mine Planning Projects, Ohio, Pennsylvania, Virginia, Kentucky, West Virginia and North Carolina. Ohio Edison, Veon Coal, Ashland Coal, Virginia Poca Koppers Company. Project Manager. Managed reserve analysis and mine planning projects for coal mines. These project required computer models for determining mineral reserves, stockpile inventories, mining simulation, long range planning, cost studies, mine drainage, mine subsidence, and production monitoring.	ojects, Ohio, Pennsylvania, Virginia, Kentucky serve analysis and mine planning projects for coal cost studies, mine drainage, mine subsidence, ar	, West Virginia and North Carolina. Oh I mines. These project required computer i nd production monitoring.	Virginia, Kentucky, West Virginia and North Carolina. Ohio Edison, Veon Coal, Ashland Coal, Virginia Pocahontas, ing projects for coal mines. These project required computer models for determining mineral reserves, stockpile mine subsidence, and production monitoring.
Geotechnical Engineering Services, Ohio, West Virginia and Pennsylvania. mine lands projects for the U.S. Office of Surface Mining. The projects required s included flood studies, mine subsidence, underground mine fires, mine drainage, costs for project implementation were more than \$12 million.	Virginia and Pennsylvania. U.S. Office of Surfa ining. The projects required surveys, mapping, su ad mine fires, mine drainage, vertical shaft filling, 2 million.	ice Mining. Project Manager. Managed ei ubsurface investigations, plans, specificati gob piles, landslides, refuse fires, grouting	Geotechnical Engineering Services, Ohio, West Virginia and Pennsylvania. U.S. Office of Surface Mining. Project Managed maged engineering services contract for more than 40 abandoned mine lands projects for the U.S. Office of Surface Mining. The projects required surveys, mapping, subsurface investigations, plans, specifications, and construction inspection. Mining-related problems included flood studies, mine subsidence, underground mine fires, mine drainage, vertical shaft filling, gob piles, landslides, refuse fires, grouting programs, and surface mine reclamation. Construction construction construction inspection. Mining-related problems costs for project implementation were more than \$12 million.
Various Reclamation Projects, Ohio and West Virginia. Ohio Department of Natural Resources and the We mine lands projects for the Ohio Department of Natural Resources and the West Virginia Department of Natural mine seals, mine fires, mine stabilization and refuse bank reclamation. Construction costs were over \$5 million.	rginia. Ohio Department of Natural Resources a raral Resources and the West Virginia Department bank reclamation. Construction costs were over	nd the West Virginia Department of Natura : of Natural Resources. Projects included r \$5 million.	Various Reclamation Projects, Ohio and West Virginia. Ohio Department of Natural Resources and the West Virginia Department of Natural Resources. Project Manager. Managed abandoned mine lands projects for the Ohio Department of Natural Resources and the West Virginia Department of Natural Resources. Project Manager. Managed abandoned mine lands projects for the Ohio Department of Natural Resources and the West Virginia Department of Natural Resources. Project Manager. Managed abandoned mine lands projects for the Ohio Department of Natural Resources and the West Virginia Department of Natural Resources. Projects for the Ohio Department of Natural Resources and the West Virginia Department of Natural Resources. Projects included mine subsidence, flood studies, mine drains, mine seals, mine fires, mine stabilization and refuse bank reclamation. Construction costs were over \$5 million.
Various Coal Refuse Facilities Geotechnical Design, Ohio, Pennsylvania, West Virginia, Illinois, Virginia and Kentucky. North American Exxon Coal, Sierra Coal. Geotechnical Manager. Supervised the geotechnical design of coal slurry impoundments and coal refuse embankment were used. Design analyses included slope stability, hydrology and hydraulics, and structural design of primary and emergency spillway systems.	ign, Ohio, Pennsylvania, West Virginia, Illinois upervised the geotechnical design of coal slurry i , hydrology and hydraulics, and structural design (s. Virginia and Kentucky. North America mpoundments and coal refuse embankme of primary and emergency spillway system	Various Coal Refuse Facilities Geotechnical Design, Ohio, Pennsylvania, West Virginia, Illinois, Virginia and Kentucky. North American Coal, Bethlehem Mines, Diamond Shamrock Coal, Exxon Coal, Sierra Coal. Geotechnical Manager. Supervised the geotechnical design of coal slurry impoundments and coal refuse embankments. Upstream and downstream construction methods were used. Design analyses included slope stability, hydrology and hydraulics, and structural design of primary and emergency spillway systems.
Unimin Trailings Dam Expansion, Virginia. Unin sand plant and quarry. The main embankment and through the main embankment.	<i>iin Corporation</i> . Project Manager. Managed desi dike were raised, the spillway redesigned, and th	gn and construction phase of a phased ca e outlet pipe extended. Piezometric instru	Unimin Trailings Dam Expansion, Virginia. Unimin Corporation. Project Manager. Managed design and construction phase of a phased capacity increase of a tailings dam for an industrial glass sand plant and quarry. The main embankment and dike were raised, the spillway redesigned, and the outlet pipe extended. Piezometric instrumentation was installed to monitor the phreatic surface through the main embankment.
	5)		
EDUCATION (Degree, Year, Specialization) M.S.C.E., 1966, Civil Engineering: B.S.C.E., 1964, Civil Engineering	Civil Engineering		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Owi Engineers Society of American Military Engineers	SNO	REGISTRATION (Type, Year, State) Professional Engineer, 1969, PA; <u>Professional Engineer, 1990, WV</u> Professional Engineer, 1991, OH	ssional Engineer, 1990, WV

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13. PERSONAL HISTORY STATEMENT OF PRI data but keep to essentials)	 PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN. (Furnish complete data but keep to essentials) 	- PROJECT DESIGN. (Furnish complete	3.7
NAME & TITLE (Last, First, Middle Int.)			
Dooley, Michael J. Mapping Supervisor	YEARS OF AML DESIGN EXPERIENCE: YEARS OF AM EXPERIENCE: EXPERIENCE:	L RELATED DESIGN	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: -
Brief Explanation of Responsibilities	-	-	
Mr. Dooley has successfully managed at least 500 projects in a project mana in the Caribbean utilizing various subcontractors, softwares and technologies planimetric data and pixel resolutions required for engineering specific project	Mr. Dooley has successfully managed at least 500 projects in a project manager or production manager role over the past 12 years. Projects ranged from large multi-million dollar nationwide mapping in the Caribbean utilizing various subcontractors, softwares and technologies to produce planimetry/topology and orthophotography to large-scale site mapping to provide high accuracy terrain data, planimetric data and pixel resolutions required for engineering specific projects.	st 12 years. Projects ranged from large multi-million d notography to large-scale site mapping to provide high	llar nationwide mapping accuracy terrain data,
He is well-versed through either having worked directly i manual), LiDAR operations, film based and digital came image rectification, vector based CAD editing, quality co	He is well-versed through either having worked directly in or acquired specific technical knowledge of: flight planning, control planning, airborne GPS/IMU operations, aerotriangulation (automated and manual), LiDAR operations, film based and digital cameras, DTM and DEM compilation, GIS Mapping, transmission line and pipeline profiling, volumetrics for volume reporting, orthophotography and image rectification, vector based CAD editing, quality control, preparation of responses to RFP/LOI/RFQ, estimating.	atrol planning, airborne GPS/IMU operations, aerotriang and pipeline profiling, volumetrics for volume reporting	ulation (automated and orthophotography and
He has served diversified customer contacts including methods private utilities, mining and materials, appraisal districts, of residential, commercial and industrial development. F	He has served diversified customer contacts including multiple state and county governments, quasi-governmental organizations (E911, Councils of Government), city governments, public utilities, private utilities, mining and materials, appraisal districts. Engineering companies in support of oil and gas facilities and pipelines, electrical facilities and transmission. Engineering companies in support of residential, commercial and industrial development. FAA Commercial, International and General Aviation airports.	nizations (E911, Councils of Government), city governn ipelines, electrical facilities and transmission. Engineer	ients, public utilities, ng companies in support
Experience			
Production Manager Tri-County Aerial Acquisition Project in conjunction with Utilized LiDAR data and addition of DEM breaklines, pro driveways, parking, medians, ponds, fences & railroad t	Production Manager Tri-County Aerial Acquisition Project in conjunction with Frederick County, Maryland- 4 County Project – Frederick, Washington, Allegany, and Garrett Counties Utilized LiDAR data and addition of DEM breaklines, produced 6" orthoimagery tiles, 1"=100'planimetric data including; building footprints, edge of pavement, stream channels, driveways, parking, medians, ponds, fences & railroad tracks and 2' contours for Allegany County Government (allconet).	shington, Allegany, and Garrett Counties building footprints, edge of pavement, stream channel	, forested areas,
Project Manager Bexar Metro 911 Network District, San Antonio, Texas - Utilized digitally captured aerial photography, produce 6' three years. Digitized all roadway (public and private) ce	Project Manager Bexar Metro 911 Network District, San Antonio, Texas - 3 County Project – Bexar, Comal, and Guadalupe Counties Utilized digitally captured aerial photography, produce 6" pixel black and white orthoimagery, black and white was requested specifically by client. Generated DTM data which was yearly updated over three years. Digitized all roadway (public and private) centerline data, with yearly updates.	sted specifically by client. Generated DTM data which v	as yearly updated over
Project Manager Dominican Republic, Countrywide mapping – "Irrigated / Flew entire country, provided 12,000 frames of imagery Produced 1m contours from DTM acquired data, 1"=200	Project Manager Dominican Republic, Countrywide mapping – "Irrigated Areas Mapping project - Irrigation Systems Management Studies" Flew entire country, provided 12,000 frames of imagery in both digital and hard copy form to The National Government". Produced 0.5m pixel CIR and color imagery for specific irrigated areas. Produced 1m contours from DTM acquired data, 1"=200' planimetric data.	" Produced 0.5m pixel CIR and color imagery for specif	c irrigated areas.
EDUCATION (Begree, Year, Specialization) Suffolk County Community College – Civil Technology	/ 1983 – 1987		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type, Year, State)	
West Virginia Department of Environmental Protection		DED15506 — Lilhern Dritt Hinhwall Decian Barhour County West Virainia	iroinia 0 of 34

West Virginia Department of Environmental Protec AML Consultant Qualification Questionnaire

DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia 9 of 34

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13. PERSONAL HISTORY STATEMENT OF PRIN data but keep to essentials	PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR	AML PROJECT DESIGN. (Furnish	complete	÷
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE		
Henry, James R., P.E. Senior Engineer	YEARS OF AML DESIGN EXPERIENCE: YEARS EXPER	YEARS OF AML RELATED DESIGN EXPERIENCE: 9	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	, W
Brief Explanation of Responsibilities	-			
Mr. Henry is a Geotechnical Engineer responsible for the development. He has more than ten years of engineering	Mr. Henry is a Geotechnical Engineer responsible for the development of subsurface explorations, preparation of geotechnical analyses, submission of design reports, and participation in proposal development. He has more than ten years of engineering experience in geotechnical investigations and construction consultation for a wide range of transportation, building, energy and dam projects.	eotechnical analyses, submission of des on consultation for a wide range of trans	iign reports, and participation in prop portation, building, energy and dam p	sal ojects.
Slope Stability Analysis, Pittsburgh, Pennsylvania. Pennsylvania Department of Tr embankments on a proposed limited access highway to Pittsburgh International Airport.	Pennsylvania Department of Transportation. Assistant Engineer. Pittsburgh International Airport.		Conducted slope stability analysis and developed recommendations for	or
Landslide Remediation Design, Wheeling, West Virginia. an Army Reserve Center.	U.S. Army Corps of Engineers, Baltimore District.	Engineer. Participated in a landslide rem	Participated in a landslide remediation design and construction project for	ect for
Rock Slope Remediation, Pittsburgh, Pennsylvania. Ithe Airport Busway.	Port Authority of Allegheny County. Engineer.	Participated in rock slope investigations and in the development of slope remediation plans for	e development of slope remediation	lans for
Landslide Slope Stability Analysis, Armstrong County, Pennsylvania.	Buckeye Pipeline Company.	Assistant Engineer. Conducted slope stability analysis for landslide remediation.	halysis for landslide remediation.	
Rock Stope Investigation, Bedford, Pennsylvania. Pespecifications.	Pennsylvania Tumpike Commission. Engineer. Participate	Participated in a rock slope analysis and in the development of slope remediation plans and	velopment of slope remediation plans	and
Detention Pond Investigations, Mars, Pennsylvania. pond embankments for a residential development.	The Trees Development Corporation. Assistant Engineer.	er. Performed subsurface investigations and slope stability analyses of 10 detention	and slope stability analyses of 10 de	ention
Detention Pond Stability Analysis, Morgantown, West Virginia.	Allegheny Power Service Corporation.	Assistant Engineer. Analyzed stability of several detention ponds for an ash disposal site.	eral detention ponds for an ash dispo	al site.
Roadway Embankment Analysis, Chippewa to New Castle, Pennsylvania. Valley Expressway that runs from Chippewa to New Castle.	astle, Pennsylvania. Pennsylvania Tumpike Commission. tle.	Assistant Engineer.	Analyzed several roadway embankments for the Beaver	ver
Soil Reports and Construction Specifications, Pittsburgh, Pennsylvania. for Southern Expressway at Pittsburgh International Airport.	urgh, Pennsylvania. Pennsylvania Department of Transportation. ort.	Assistant Engineer.	Prepared soil reports and construction specifications	cations
				1 ²
EDUCATION (Degree, Year, Specialization) M.S., 1998. Civil Engineering, B.S.E., 1988. Civil Engineering	emg			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRAT Professional	ION (Type, Year, Sta Engineer, 1993, PA:	ite) Professional Engineer, 1993, MD	
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire	DEP155	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia	oour County, West Virginia 10 of 34	34

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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASS	0	CIATES RESPONSIBLE FOR AML PROJECT DESIGN. (Furnish complete	sh complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
Zang, Scott D., P.E. Senior Engineer	YEARS OF AML DESIGN EXPERIENCE: 15	YEARS OF AML RELATED DESIGN EXPERIENCE: 15	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities			
Mr. Zang is a geotechnical engineer experienced in site investigation and design. His professional experience encompasses reconnaissance, field testing, laboratory testing, project analysis and design, report preparation and construction inspection for roadways, railroads, earth dams, buildings, hazardous waste studies, industrial facilities, airports and coal mines. His design experience also includes abandoned mine land reclamation and innovative AMD abatement design.	e investigation and design. His professional experiel for roadways, railroads, earth dams, buildings, hazal tive AMD abatement design.	rce encompasses reconnaissance, field testi dous waste studies, industrial facilities, airpo	ig, laboratory testing, project analysis and ts and coal mines. His design experience a
Raw Water Pump Station & Transmission Main, Wellsville, Ohio. Southern Columbiana County Regional Water District. Assistant Technical Manager. Performed the geotechnical investigation and made design recommendations for construction of a 30 foot deep dry well receiving water from a new intake system placed in the Ohio River. The design included evaluation of buoyancy effects, temporary shoring for the dry well and the intake piping, and remediation of a soft day layer that would be encountered at the base of the excavation for the dry well.	Ilsville, Ohio. Southern Columbiana County Regio a 30 foot deep dry well receiving water from a new i , and remediation of a soft clay layer that would be e	<i>nal Water District.</i> Assistant Technical Manag ntake system placed in the Ohio River. The d encountered at the base of the excavation for	er. Performed the geotechnical investigation esign included evaluation of buoyancy effect the dry well.
Coal Refuse Pile Remediation Design Analysis and Plans, West Virginia. <i>West</i> Plans, specifications and cost estimates for remediation of several abandoned coal re and facilities design for surface water control of burning and non-burning refuse piles.	Plans, West Virginia. West Virginia Department on of several abandoned coal refuse piles. Projects it and non-burning refuse piles.	West Virginia Department of Environmental Protection. Engineer. Performed design analysis and prepared construction coal refuse piles. Projects included regraded slope stability analysis, retention structure design, subsurface water control s piles.	med design analysis and prepared construct ntion structure design, subsurface water con
Coal Mine Subsidence Remediation Construction Plans, West Virginia . <i>West Virginia Depar</i> estimates for remediation of areas affected by subsidence of abandoned underground coal mines.		West Virginia Department of Environmental Protection. Engineer. Prepared construction plans, specifications and cost rground coal mines.	ed construction plans, specifications and cos
Private Residence Subsidence Evaluations, Western Pennsylvania. U.S. Department of the Interior, Office of Surface Mining. Assistant Engineer. Performed subsurface investige evaluate subsidence and subsidence-related incidents at several private residences. Project included surface distress cause determination and recommendation of remedial measures.	n Pennsylvania. U.S. Department of the Interior, C at several private residences. Project included surf	office of Surface Mining. Assistant Engineer. ace distress cause determination and recomn	Performed subsurface investigations to nendation of remedial measures.
Manor Mine and Preparation Plant, Greene County, Pennsylvania. Consolidation Coal Company. Assistant Engineer. Conducted field testing program for foundations of several support buildings, a preparation plant, and coal storage silos.	Pennsylvania. Consolidation Coal Company. Ass	istant Engineer. Conducted field testing prog	ram for foundations of several support buildi
Landini Mine Fire Remediation, Elizabeth, Pennsylvania. U.S. Department remedial measures to control a fire in an abandoned underground coal mine.		of the Interior, Office of Surface Mining. Assistant Engineer. Performed subsurface investigations and designed	subsurface investigations and designed
Acid Nine Drainage Abatement Project, Barton, Ohio. Ohio Department of mine drainage abatement procedures at an abandoned underground coal mine		Vatural Resources. Engineer. Conducted water sampling program and field investigation during development of acid and coal refuse area. Handled administration and office engineering during implementation of remedial measures.	eld investigation during development of acid ing implementation of remedial measures.
Groundwater Monitoring Well Construction and Sampling, Pennsylvania and West Virginia. Various Clients. Assistant Engineer. Assisted with sampling and constructing groundwater monitoring wells at various locations.	mpling, Pennsylvania and West Virginia. <i>Various</i>	s <i>Clients</i> . Assistant Engineer. Assisted with s	ampling and constructing groundwater
EDUCATION (Degree, Year, Specialization) BS, 1980, Geological Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Owil Engineers	0	REGISTRATION (Type, Year, State) Professional Engineer, 1985, PA	
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire		DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia	arbour County, West Virginia 11 of 34

II (SOCIATES RESPONSIBLE	FOR AML PROJECT DESIGN. (Furnish complete
NAME & TITLE (Last. First. Middle Int.)	YEARS OF EXPERIENCE	IENCE
Ciucci, Ronald J., P.E. Senior Engineer	YEARS OF AML DESIGN EXPERIENCE: YEARS OF AML RELATED DESIGN EXPERIENCE: 8	DESIGN YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 19
Brief Explanation of Responsibilities		
Mr. Ciucci is a senior engineer with experience in water a general municipal engineering. He also performed hydra	Mr. Ciucci is a senior engineer with experience in water and sanitary sewer systems, site development, hydrology and hydraulics, stormwater management, erosion and sedimentation control, and general municipal engineering. He also performed hydraulic/hydrologic analysis for several AML and AMD remediation projects.	vater management, erosion and sedimentation control, and
Fox Chapel Pump Station and Rising Main, City of Pittsburgh, Pennsylvania. calculations.	Pittsburgh Water and Sewer Authority.	Project Engineer. Prepared pump and system curve data and supporting
Pittsburgh Water and Sewer Authority Pilot Plant, City of Pittsburgh, Pennsylvania. technical specifications.	Pittsburgh Water and Sewer Authority.	Project Engineer. Performed pump design/selection and prepared
Campus-wide Water Distribution System Evaluation, to the campus water distribution system, verification, call	Campus-wide Water Distribution System Evaluation, University Park, Pennsylvania. The Pennsylvania State University. Senior Er to the campus water distribution system, verification, calibration and analysis of the University's 1,000 pipe hydraulic model.	Senior Engineer. Responsible for review of exiting information relating
Potable Water Distribution System Evaluation, Weirt project included a comprehensive review of industrial wa final recommendations.	Potable Water Distribution System Evaluation, West Virginia. Weirton Steel Corporation. Senior Engineer. Supervised modeling of the Weirton plant's water distribution system. The project included a comprehensive review of industrial water usage, existing plant mapping, model construction, model calibration via field testing, model simulations, alternate/upgrade analysis and final recommendations.	odeling of the Weirton plant's water distribution system. The d testing, model simulations, alternate/upgrade analysis and
Hydraulic Model Calibration and System-wide Fire Flow Analysis, North Sewickley Township, Penn Supervised model calibration and preparation of a Township-wide fire flow analysis. Baker performed a cc included recommendations to the Authority to bring their hydrants into compliance with AWWA standards.	Hydraulic Model Calibration and System-wide Fire Flow Analysis, North Sewickley Township, Pennsylvania. The Municipal Authority of North Sewickley Township. Senior Engineer. Supervised model calibration and preparation of a Township-wide fire flow analysis. Baker performed a comprehensive hydrant testing program that included over twenty test locations. The project included recommendations to the Authority to bring their hydrants into compliance with AWWA standards.	<i>nority of North Sewickley Township.</i> Senior Engineer. program that included over twenty test locations. The project
Hydraulic Model and Maintenance, Various Location Beaver Falls Municipal Authority. Senior Engineer. Mai	Hydraulic Model and Maintenance, Various Locations throughout Beaver County, Pennsylvania. Borough of Baden, Center Township Water Authority, North and New Sewickley Townships, Beaver Falls Municipal Authority. Senior Engineer. Maintain and calibrate existing hydraulic model, some of which over 10,000 pipes in size.	rship Water Authority, North and New Sewickley Townships, I size.
ALCOSAN Service Area Wide Flow Monitoring Progr measured sewage flow from 83 contributing municipalitie Girty's Run; and Pine Creek. The goal of the program w	ALCOSAN Service Area Wide Flow Monitoring Program. Allegheny County Sanitary Authority. Task Manager. Served as field coordinator and data processor for a flow monitoring program that measured sevage flow from 83 contributing municipalities. Major watersheds include Saw Mill Run; Turtle Creek; Chartiers Creek; Thompson Run; Beck's Run; Streets Run; Lowners Run; Jack's Run; Girty's Run; and Pine Creek. The goal of the program was to quantify sewage flow from ALCOSAN communities and reduce wet weather flows to the treatment plant.	rdinator and data processor for a flow monitoring program that mpson Run; Beck's Run; Streets Run; Lowners Run; Jack's Rur er flows to the treatment plant.
ALCOSAN Deep Tunneling Flow Monitoring. Alleght sewers which vary in depth from 40 to 120 feet deep. M used to study storage capacity of the tunnels which is a	ALCOSAN Deep Tunneling Flow Monitoring. Allegheny County Sanitary Authority. Task Manager. Responsible for site selection and equipment selection for monitoring of the Alcosan tunnel sewers which vary in depth from 40 to 120 feet deep. Monitoring equipment was installed in nine locations along the deep tunnel systems to measure level and flow within the system. This data was used to study storage capacity of the tunnels which is a requirement of the Nine Minimum Controls of CSO's.	nd equipment selection for monitoring of the Alcosan tunnel ns to measure level and flow within the system. This data was
EDUCATION (Begree, Year, Specialization) B.S., 1992, Civil Engineering		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Olvi Engineers Society of American Military Engineers	REGISTRATION (Type, Professional Engineer, 1 Professional Engineer, 1 Professional Engineer, 1 Professional Engineer, 1	Year, State) 998. Vrrgima 998. Maryland 1997. <u>1997. Mest Virginia</u> 997. Pennsylvania
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire	DEP15596 – Lilbern Pritt High	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia 12 of 34

Number 1 Transmission Transmission Transmission Transmission Add 5 Title Law, Fran, Midde maj Transmission Transminter Transmission Transmission	13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASS	DF PRINCIPALS AND ASSOCIATES RESPONSIBLI	SPONSIBLE FOR AML PROJECT DESIGN. (Fumish complete	(Furnish complete
MARE & TITLE faux, Frank markersis, English, Experimental English, Experimental English, Experimental English, Experimental English, Experimental English, Experimental English, English, Annol (Edgish, Annol (Edgish), English, English, English, English, Annol (Edgish), English,	data but keep to essentials)			
Clare, James A, PE, PLS. S EVERIENCE: S Expertence Engineering Manager, Engineering Manager, Manager environment and desaring version and desaring version and desaring version and metinence services. 38 Start Explanation of Responsibilities S Secretion and metinence services. 38 Ref Explanation of Responsibilities Secretion and desaring version and desarin	NAME & IIILE (Last, First, Middle Int.)	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN	YEARS OF DOMESTIC WATERLINE DESIGN
Brief Explanation of Responsibilities In: Carlos a circle and employee and more explored with more than 35 years of experiments in propertation of Responsibilities In: Carlos a circle and expressing structure steppener, with more than 35 years of experiments in propertation, correction and maintenance engineering services. His background cladices municipal explores process with more than 35 years of experiments in propertation of construction (adeity), construction code stepper vegenering structures collection and convergence). He sales explores and conversional transmource of explority construction code stepper vegenering and supporting data mining studes; user rate scales: and conversional in propertation of construction frankings and counted specifications; construction code stepper vegenering and supporting data mining studes; user rate scales: and conversional. Various Pennsylvania. Various Pennsylvania. Municipalities Provided design were Spaten Hydraulic Anabisis and Modelling. Beaver Falls, Almoha Municipalities. Trointies frankings and transmound provided design Were Spaten Hydraulic Anabisis and Modelling. Beaver Falls, Almoha Municipalities. Trointies franking and the scales and supported materia. Design Fanning studes; user rate scales: and operation of materian and any any and any and any and any any and any and any any and any and any and any any	Culler, James A., P.E., P.L.S. Engineering Manager	QJ	EXPERIENCE: 6	
the Cultre is a poil and environmental expinent with more than 55 years of lepstence in project planning, deliph, construction develope and antiferance expireding activity and environmental expiration generations and second experimental predictions and second experimental predictions. Project Engineer and Project Manager. Provided design expirations and second experimental predictions. Project Engineer and Project Manager. Provided design experimental predictions and experimental predictions. Project Engineer and Project Manager. Provided design experimental predictions and experimental predictions. Project Engineer and Project Manager. Provided design expiration experimental predictions. Beaver Falls. Nanizopati Manager. Provided design expiration experimental predictions and experimental predictions. Project Engineer and Project Manager. Provided design expiration experimental predictions and experimental predictions. Project Engineer and Project Manager. Provided design expiremental predictions and experimental and expiration expertance. Contract experimental predictions and experimental predictions. Project Engineer and Project Manager. Provided design expiremental predictions appredictions and experimental predictions. Project Engineer and Project Manager. Provided design expiremental predictions appredictions and experimental and expiremental predictions and experimental predictions. Receiver and experimental predictions appredictions and experimental predictions and experimental predictions appredictions and experimental provide and experimental predictions appredictions appredictions appredictions appredictions. Provided design experimental and expiremental and experimental and expiremental and experimental and expirementations appredictions appredictions appredimprediction appredictions apprediction appredicting experime	Brief Explanation of Responsibilities			_
Water System Design Engineering, Aliquipta, Midland and Bazver Falls, Pennsylvania, Municipalities. Project Engineer and Project Manager. Provided design expirements and construction services for vare system neuration project. Water System Design Engineering, Desver Falls, Aliquipta and Midland, Endone and Kopel, Pennsylvania, Municipalities. Project Engineer and Project Manager. Provided design expirements and construction services for rew construction of maked ware storage area. Water System Hydraulic Analysis and Modeling, Basver Falls, New Sewickley, Meadville, Baden and Kopel, Pennsylvania. Various Pennsylvania. Various Pennsylvania. Various Pennsylvania. Various Pennsylvania. Various Pennsylvania. Various Pennsylvania. Project Engineer and Project Manager. Performed Prostent Pythaulic Paulysis and Modeling, Basver Falls, New Sewickley, Meadville, Baden and Kopel, Pennsylvania. Various Pennsylvania. Various Pennsylvania. Project Engineer and Project Manager. Performed Prostent Pythalia Prostentia Prostent Prostentia Prostent Prostenti Prostent Prostentia Prostentia Prostentia Prostentia Pr	Mr. Culler is a civil and environmental engineer w includes municipal engineering representation, si facilities; wastewater and water planning and fea wastewater collection and conveyance). He is al and supporting data; financial planning studies; u	with more than 25 years of experience in project site engineering for industrial and commercial pa asibility studies; and municipal and sanitary engi liso experienced in preparation of construction o user rate studies; and construction inspection so	It planning, design, construction, operation and ma arks; municipal infrastructure design (roads, storm gineering designs (water and wastewater treatment drawings and contract specifications; construction services.	intenance engineering services. His background drainage, water and sewer); industrial and recreation , pumping, water storage and distribution, and cost estimating; preparation of regulatory applications
Water Storage Tank Design Engineering, Beaver Falls, Miquippa and Midland, Pennsylvania. Various Pennsylvania. Project Engineer and Project Manager. Provided design engineering and construction of finished water storage tarks. engineering and construction services for new construction of finished water storage tarks. Sering Ally and Mercer Road Water Pumping Stations. New Brighton Strong hand Daugherty Township. Pennsylvania. Various Pennsylvania. Pennsylvania. Various Pennsylvania. Various Pennsylvania. Various Pennsylvania. Various Pennsylvania. Pennsylvania. Various Pennsylvania. Pennsylvania. Various Pennsylvania. P	Water System Design Engineering, Aliquippa, engineering and construction services for water s			ineer and Project Manager. Provided design
Water System Hydraulic Arabysis and Modeling, Beaver Falls, New Sewickley, Meadville, Baden and Koppel, Pennsylvania. Varous Pennsylvania. Varous Pennsylvania Municipatilies. Technical Review Manage Performed hydraulic analysis and modeling, featrolucion systems. Performed thydraulic analysis and modeling, Beaver Falls, New Sewickley, Meadville, Baden and Koppel, Pennsylvania. Varous Pennsylvania Municipatilies. Technical Review Manage Resign etglerenting envirous water distribution systems. Performed thydraulic analysis and modeling, for antipica strate and Station consists of three pumps with the at 126 feat TDH and one at 40 galions per minute at 305 feat TDH and one at 300 galions per minute at 165 feat TDH. Water Transh uppedable to Kry System provident for three pumps with the at 126 feat TDH and one at 30 galions per minute at 147 feat TDH upgradable to Kry System provision of Environmental Protection. Technical Review Manager. Performed technical reviews for the 200 galions per minute at 147 feat TDH and one at 30 galions per minute at 147 feat TDH and one at 30 galions per minute at 147 feat TDH and one at 30 galions per minute at 147 feat TDH and one at 30 galions per minute at 147 feat TDH and one at 30 galions per minute at 147 feat TDH and one at 30 galions per minute at 147 feat TDH and one at 30 galions per minute at 147 feat TDH. Water TDH system Water TDH system Manager, Performed technical reviews for too 455 galions per minute at 126 feat TDH. Water TDH system Water TDH system Manager, Performed technical reviews for too system Water TDH system Manager, Performed technical reviews for too system Manager, Performed technical reviews for too system	Water Storage Tank Design Engineering, Bea engineering and construction services for new co	aver Falls, Aliquippa and Midland, Pennsylva onstruction of finished water storage tanks.	Various Pennsylvania Municipalities.	ct Engineer and Project Manager. Provided design
Spring Aley and Mercer Road Water Pumping Stations. New Brighton Borough and Daugherty Township, Pennsylvania. Beaver Falls Municipal Authority. Project Manager. Performed deter Toph Pumping stations. Spring Aley Station consists of two 455 galons per minute at 300 feet TDH pumper store pumping statement. Part DH and one at 40 galons per minute at 300 feet TDH. Merce Road Water Pumping Stations. Spring Aley Station consists of two 455 galons per minute at 300 feet TDH. Merce Road Water TDH and one at 00 galons per minute at 300 feet TDH. Pumping Station Spring Per Minute at 300 feet TDH. Merce Road Water TDH and one at 00 galons per minute at 300 feet TDH. Merce Road Water Plant Design. Berwind, West Virginia. West Virginia Division of Environmental Protection. Technical Review Manager. Performed technical reviews for preparation of construction documents for 300 galons per minute at 300 feet TDH. Merce Road Water treatment tacility. Treatment scheme included well pumping, air stripping tower, pre and postchoin and stud dowatering lagoons. Technical Review Manager. Performed technical reviews for preparation of construction documents for 300 galons per minute at 355 feet TDH. Technical Review Manager. Performed technical reviews for preparation of construction documents for 300 galons per minute at 300 feet TDH. Treatment tacility. Treatment scheme included well pumping, air stripping tower, pre and postchoin and stud dowatering lagoons. Social and Date Schemed Alexan Schemed Alexa	Water System Hydraulic Analysis and Modelir Performed hydraulic analysis and modeling of va	ng, Beaver Falls, New Sewickley, Meadville, arious water distribution systems.		
Water Treatment Plant Design, Berwind, West Virginia Division of Environmental Protection. Technical Review Manager. Performed technical reviews for preparation of constructive documents for 300 gallons per minute potable ground water treatment facility. Treatment scheme included well pumping, air stripping tower, pre and postchlorination, sedimentation, filtration and slud dewatering lagoons. dewatering lagoons. EDICATION (Degree Year, Specialization) Mis. Cuil and Sentery Engineering, 1672; E.S., Civil Engineering, 167. RESISTRATION (Type, Year, State) Mis. Cuil and Sentery Engineering, 1672; E.S., Civil Engineering, 167. RESISTRATION (Type, Year, State) Mis. Cuil and Sentery Engineering, 1672; E.S., Civil Engineering, 167. RESISTRATION (Type, Year, State) Mis. Cuil and Sentery Regineering, 1672; E.S., Civil Engineering, 167. RESISTRATION (Type, Year, State) Mis. Cuil and Sentery Regineering, 1672; E.S., Civil Engineering, 167. RESISTRATION (Type, Year, State) Mis. Cuil and Sentery Regineering, 1672; E.S., Civil Engineering, 1675; E.S., Civil Engine	Spring Alley and Mercer Road Water Pumping design engineering evaluations, permitting and p minute at 305 feet TDH pumps upgradable to 57. gallons per minute at 147 feet TDH upgradable to	g Stations, New Brighton Borough and Daug preparation of equipment purchasing bidding do 5 gallons per minute at 330 feet TDH. Mercer lo to two at 350 gallons per minute at 135 feet TDH	gherty Township, Pennsylvania. Beaver Falls I bouments for the two (2) water pumping stations. 5 Road Station consists of three pumps with two at. H and one at 500 gallons per minute at 165 feet T	<i>Aunicipal Authority.</i> Project Manager. Performed spring Alley Station consists of two 455 gallons per 300 gallons per minute at 128 feet TDH and one at 40 DH.
REGISTRATION (Type, Yea Professional Engineer, PA, 1 Professional Land Surveyor.	Water Treatment Plant Design, Berwind, Wes documents for 300 gallons per minute potable gr dewatering lagoons.	st Virginia. <i>West Virginia Division of Environm</i> round water treatment facility. Treatment scher	<i>ental Protection</i> . Technical Review Manager. Pe me included well pumping, air stripping tower, pre	rformed technical reviews for preparation of constructi and postchlorination, sedimentation, filtration and sluc
REGISTRATION (Type, Yeal Professional Engineer, PA, 1 Professional Engineer, WV Professional Land Surveyor.				
REGISTRATION (Type, Yea Professional Engineer, PA, 1 <u>Professional Engineer, WV</u> Professional Land Surveyor,	EDUCATION (Degree, Year, Specialization) M.S., Givil and Sanitary Engineering, 1973; B.S.,			
	MEMBERSHIP IN PROFESSIONAL ORGANIZA American Society of Civil Engineers American W Chi Epsilon Civil Engineering Honorary Fraternity Pennsylvania Water Environment Association Water Environment Federation	ATIONS Vater Works Association y	REGISTRATION (Type, Year, State) Professional Engineer, PA, 1976 Professional Engineer, WV, 1976 Professional Land Surveyor, PA, 1981	

West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire

DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia 13 of 34

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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND AS data but keep to essentials) NAME & TITLE (Last, First, Middle Int.)	SOCIATES RESPONSI	BLE FOR AML PROJECT DESIGN. (Fumish complete YEARS OF EXPERIENCE	imish complete
Stewart, Michele, P.E. Engineering Manager	YEARS OF AML DESIGN EXPERIENCE: 12	YEARS OF AML RELATED DESIGN EXPERIENCE: 14	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Brief Explanation of Responsibilities Ms. Stewart is a Project Manager at Baker. Her specific project responsibilities have included project planning management, subcontract administration and coordination, engineering analysis, design, report preparation, and supervision/inspection of geotechnical construction activities. Ms. Stewart has also gained a significant amount of experience in the area of abandoned mine land reclamation and other mining related projects. Experience relevant to this project includes:	 project responsibilities have included project plan hnical construction activities. Ms. Stewart has also this project includes: 	ning management, subcontract administrati o gained a significant amount of experience	tion and coordination, engineering analysis, des in the area of abandoned mine land reclamation
No. 8 Mine, Mine Drainage Evaluation, McDowell County, West Virginia. and possible treatment alternatives for drainage emanating from an abandon conceptual designs, were summarized in a project report.	U.S. Steel Mining. ed mine. Both direc	Aanager and Principal Investigator. Project isive treatment alternatives were evaluated.	U.S. Steel Mining. Project Manager and Principal Investigator. Project involving the evaluation of treatment requirements ed mine. Both direct and passive treatment alternatives were evaluated. Study results and recommendations, including
Numerous Abandoned Mine Land Projects, West Virginia and Pennsylvania. Office of Surface Mining and West Virginia Department of Natural Resources. Project Engineer. The types of problems encountered included mine subsidence damage, uncontrolled mine drainage, a mine fire and mining-related landslides. The scope of work for each project included investigation, engineering analysis, abatement design, and development of the construction contract documents (plans, specifications and engineer's cost estimate). Responsible for all phases of the project.	ginia and Pennsylvania. Office of Surface Minin ge, uncontrolled mine drainage, a mine fire and mi nstruction contract documents (plans, specificatior	<i>Office of Surface Mining and West Virginia Department of Natural Resources.</i> age, a mine fire and mining-related landslides. The scope of work for each pro ints (plans, specifications and engineer's cost estimate). Responsible for all ph	Resources. Project Engineer. The types of the for each project included investigation, enginer ible for all phases of the project.
Shaft and Portal Site Design and Permitting Project, Waynesburg, Pennsylvania. <i>Cyprus Cumberland Mine No. 6 Shaft.</i> Project Manager. Provided engineering services needed for development of the site grading, surface water management, erosion/sedimentation control and ultimate site reclamation. The site work for this project included: a 1.6 mile access road over hilly terrain: a 1,000 foot long stream enclosure; a seven acre shaft and portal site; and a sedimentation pond and other erosion and sedimentation control structures. Responsibilities surrounding this project included planning/directing design and preparation of the project deliverables, client coordination and assisting the client with regulatory agency reviews.	Waynesburg, Pennsylvania. Cyprus Cumberlar ment, erosion/sedimentation control and ultimate s re shaft and portal site; and a sedimentation pond on of the project deliverables, client coordination a.	to Mine No. 6 Shaft. Project Manager. Pro- tite reclamation. The site work for this proje and other erosion and sedimentation contro nd assisting the client with regulatory agenc	wided engineering services needed for ect included: a 1.6 mile access road over hilly ol structures. Responsibilities surrounding this cy reviews.
Bleeder Shaft Site Design and Permitting Project, Waynesburg, Pennsylvania. Cyprus Cumberland Resources Corporation No. 2 Bleeder Shaft. Project Manager. Provided engineering services needed for development of the site grading plan, surface water management, erosion/sedimentation control plan, and ultimate site reclamation. Mine drainage is to be pumped from the No. 2 Bleeder Shaft site, therefore, the design for this facility included lined treatment ponds. Responsibilities surrounding this project included planning/directing design and preparation of facility construction documents and permit documents, client coordination, and assisting the client with regulatory agency reviews.	aynesburg, Pennsylvania. Cyprus Cumberland i e water management, erosion/sedimentation contre lined treatment ponds. Responsibilities surroundir and assisting the client with regulatory agency revir	Resources Corporation No. 2 Bleeder Shaft, ol plan, and ultimate site reclamation. Mine og this project included planning/directing de ews.	f. Project Manager. Provided engineering servil e drainage is to be pumped from the No. 2 Blee esign and preparation of facility construction
Shaft and Portal Site Design and Permitting Project, Waynesburg, Pennsylvania. <i>Cyprus Emerald Resources Corporation No. 7 and No. 8 Shafts.</i> Project Manager. Providing engineering services needed for development of the site grading plan, surface water management, erosion/sedimentation control plan, and ultimate site reclamation. Both site designs to provide for a bathhouse/portal facility. 300car parking area, and separate rock dust borehole site. Also, both sites have been designed to be developed in two phases. Mine drainage is to be pumped from the No Shaft site, therefore, the design for this facility includes a lined treatment pond. The No. 8 Shaft facility also includes wetland encroachments. Responsibilities surrounding these two shaft projects include planning/directing design and preparation of facility construction documents and permit documents, client coordination, assisting the client with regulatory agency reviews, and participating in township planning and zoning hearing to obtain a zoning variance.	Waynesburg, Pennsylvania. Cyprus Emerald I n, surface water management, erosion/sedimental rate rock dust borehole site. Also, both sites have a lined treatment pond. The No. 8 Shaft facility als a lined treatment pond. The No. 8 Shaft facility als lifty construction documents and permit documents o obtain a zoning variance.	<i>Cyprus Emerald Resources Corporation No. 7 and No. 8 Shafts.</i> erosion/sedimentation control plan, and ultimate site reclamation. so, both sites have been designed to be developed in two phases. 8 Shaft facility also includes wetland encroachments. Responsit permit documents, client coordination, assisting the client with re	afts. Project Manager. Providing engineering ion. Both site designs to provide for a sises. Mine drainage is to be pumped from the No. onsibilities surrounding these two shaft projects th regulatory agency reviews, and participating in
EDUCATION (Degree, Year, Specialization) BS, 1975, Civil Engineering			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Olvil Engineers		REGISTRATION (Type, Year, State) Professional Engineer, 1980, PA	
West Virginia Department of Environmental Protection			

West Virginia Department of Environmental Protect AML Consultant Qualification Questionnaire

DEP15596 - Lilbern Pritt Highwall Design, Barbour County, West Virginia 14 of 34

NAME & TITLE (Last, First, Middle Int.)			
		YEARS OF EXPERIENCE	
Martin, Mark R., PG Assistant Geologist I	YEARS OF AML DESIGN EXPERIENCE: YEAR EXPE 11	YEARS OF AML RELATED DESIGN EXPERIENCE: 9	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: -
Brief Explanation of Responsibilities			
Mr. Martin is a geologist with experience in conducting and reporting results of inspection, and geotechnical laboratory testing.		ng geologic research, site reconna	geotechnical investigations including geologic research, site reconnaissance, preparing test drilling contracts, test boring
North Fork of Yellow Creek AMD Abatement, Jefferson County, Ohio. Nashville District, U.S. Army Corps of Engineers. Project Geologist. Duties included: Coordinating with the drilling firm; locating borings; inspecting test borings, including logging soil from auger cuttings and standard penetration tests and logging rock core from NX or NQ coring to determine coal refuse thickness, overburden thickness over mine portals and delineating mine voids; installing standpipe piezometers in mine voids to monitor water levels; performing field permeability tests in boreholes; selecting samples for laboratory testing, including classifications, nutrient analysis, compaction testing, and permeability testing; preparing typed boring logs from field originals using LogDraft program; coordinating with the Project Manager during field activities.	County, Ohio. Nashville District, U.S. Army Corps of soil from auger cuttings and standard penetration tests ne voids; installing standpipe piezometers in mine voids trient analysis, compaction testing, and permeability tes s.	Engineers. Project Geologist. D and logging rock core from NX or s to monitor water levels; performi sting; preparing typed boring logs f	uties included: Coordinating with the drilling firm; NQ coring to determine coal refuse thickness, ng field permeability tests in boreholes; selecting from field originals using LogDraft program;
Mine Drainage Subsurface Investigation, Clarksburg and Fairmont, West borings to identify mine voids and installed standpipe piezometers to evaluate	nd Fairmont, West Virginia. West Virginia Department of Energy. Projet ometers to evaluate presence of mine pools for mine drainage investigation.	st Geologist.	Conducted site reconnaissance, monitored test
Mine Subsidence Subsurface Investigation, MacArthur, West Virginia. West voids and produced final test boring records to produce mine stabilization program.	. West Virginia. West Virginia Department of Environmental Protection. ne stabilization program.	mental Protection. Project Geologist.	gist. Logged soil and rock core to identify mine
Abandoned Mine Lands Project, Cheat Lake, West Virginia. West Virginia Department of Environmental Protection. Project Geologist. Ove location of coal mine spoil/refuse, collected acid mine drainage samples for testing, installed piezometers and produced final test boring records.	inia. West Virginia Department of Environmental Protrage samples for testing, installed piezometers and pro-	<i>ection.</i> Project Geologist. Overs. duced final test boring records.	Project Geologist. Oversaw test drilling activities to determine amount and lest boring records.
Abandoned Mine Lands Project, Masontown, West Virginia. West Virginia Department of Environmental Protection. Project Geologist. Conducted a site reconnaissance at four areas within the project location. Oversaw test drilling activities (i.e., logging soil and rock core) to determine amount/extent of coal mine spoil/refuse within the four designated areas, collected water samples from acid mine drainage locations, and produced final test boring records.	ginia. West Virginia Department of Environmental Prol g soil and rock core) to determine amount/extent of coa cords.	tection. Project Geologist. Condu al mine spoil/refuse within the four	ucted a site reconnaissance at four areas within the designated areas, collected water samples from
Abandoned Mine Lands Project, Ely and Puckett Creeks, Virginia. Virginia Department of Mines, Minerals and Energy. Project Geologist. Conducted a site reconnaissance for four sites in southwestern Virginia. Oversaw test drilling activities including logging soil and rock core, conducted bore hole permeability tests, and conducted a survey of local residence for a Hazardous, Toxic, and Radiological Waste Investigation Report.	.s, Virginia. Virginia Department of Mines, Minerals ar ding logging soil and rock core, conducted bore hole pe	<i>nd Energy.</i> Project Geologist. Cor ermeability tests, and conducted a	nducted a site reconnaissance for four sites in survey of local residence for a Hazardous, Toxic,
Waterline Feasibility/Extension Project, Berwind, West Virginia. West Vicore along the proposed alignment, collected water samples, and produced fir	 Virginia. West Virginia Department of Environmental Protection. and produced final testing boring records. 		Project Geologist. Conducted a site reconnaissance, logged soil and rock
EDUCATION (Degree, Year, Specialization) B.S., 1688, Geology			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGI	REGISTRATION (Type, Year, State) Professional Geologist, 1995. PA	

west virginia Department of Environmental Protect AML Consultant Qualification Questionnaire

DEP15596 - Lilbern Pritt Highwall Design, Barbour County, West Virginia 15 of 34

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13. PERSONAL HISTORY STATEMENT OF PRIN data but keep to essentials)	STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN 	. (Furnish complete
NAME & TITLE (Last, First, Middle Int.) Heilman, Gregory A., P.E. Senior Engineer	YEARS OF AML DESIGN EXPERIENCE: YEARS OF AML RELATED DESIGN EXPERIENCE: 9 8 8 9	N YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: -
Brief Explanation of Responsibilities Mr. Heilman is a civil engineer with extensive professions and construction services.	Brief Explanation of Responsibilities Mr. Heilman is a civil engineering, solid and hazardous waste management, and construction services.	engineering, solid and hazardous waste managemen
Project engineer for the remedial design of the Buckeye Reclamation Landfill Superfun plans; details; construction sequencing and schedule; and construction cost estimate. included relocating and lining 5,000 feet of an existing stream. Assisted in the prepara Assurance (CQA) Plan.	Project engineer for the remedial design of the Buckeye Reclamation Landfill Superfund Site, located in Belmont County, Ohio. Responsible for overall site design including developing final grading plans; details; construction sequencing and schedule; and construction cost estimate. Responsible for designing the erosion and sediment control plan and the surface water management plan, which included relocating and lining 5,000 feet of an existing stream. Assisted in the preparation of the final report, technical specifications, Operation and Maintenance Plan, and Construction Quality Assurance (CQA) Plan.	overall site design including developing final grading rol plan and the surface water management plan, wh and Maintenance Plan, and Construction Quality
Project engineer for the preparation of a solid waste permit application for a 120-ac design, preparation of construction drawings, and preparation of a detailed construction system, construction details and sequencing, liner and cover installation.	Project engineer for the preparation of a solid waste permit application for a 120-acre restricted waste landfill for U.S. Steel Gary Works, Indiana. Primary responsibilities included coordination of site design, preparation of construction drawings, and preparation of a detailed construction cost estimate. Site design work involved development of grading plans, surface water management, leachate collection system, construction details and sequencing, liner and cover installation.	 Primary responsibilities included coordination of sit of grading plans, surface water management, leachat
Project engineer for the development of several closure a permit applications including developing closure concept a construction quality assurance plan; and cost estimate:	Project engineer for the development of several closure and post-closure plans for HWT-2 Neutralized Waste Acid Lagoons for U.S. Steel Gary Works, Indiana. Responsible for all aspects of the permit applications including developing closure concepts: site grading; drainage and erosion control; sludge stabilization; cap and cover design; preparation of drawings and technical specifications; a construction quality assurance plan; and cost estimates. The most recent alternative included groundwater extraction and the design of slurry walls.	Works, Indiana. Responsible for all aspects of the ; preparation of drawings and technical specification walls.
Assisted in a feasibility study to evaluate dry disposal alternatives for flue gas desulfu comparing the alternatives for preliminary costs, technical feasibility and performance dry disposal operations, cost evaluation and screening and comparing of alternatives.	Assisted in a feasibility study to evaluate dry disposal alternatives for flue gas desulfurization sludge and fly ash for Pennsylvania Power Company Bruce Mansfield Power Station. The project included comparing the alternatives for preliminary costs, technical feasibility and performance to meet all applicable regulations. Involved extensively in sludge dewatering options, the addition of dry additives, dry disposal operations, cost evaluation and screening and comparing of alternatives.	ny Bruce Mansfield Power Station. The project inclue sludge dewatering options, the addition of dry additive
Site engineer for a waste removal/site remediation project in (site backfill, and provided overall supervision of site activities.	Site engineer for a waste removal/site remediation project in Carnegie, Pennsylvania. Managed removal operations for contaminated soil, conducted soil sampling, wrote inspection reports, inspected site backfill, and provided overall supervision of site activities.	ucted soil sampling, wrote inspection reports, inspect
Performed engineering design for the closure of an existing included site grading, sludge settlement investigations, it	Performed engineering design for the closure of an existing sludge bed at a hazardous waste surface impoundment for Armco Advanced Materials Company, Butler Works, Pennsylvania. included site grading, sludge settlement investigations, impermeable cover design, and storm water control facilities design.	als Company, Butler Works, Pennsylvania. Design
Project engineer for the preparation of a permit application for the closure of a closure and post-closure plans including site grading; final cover design; drains Responsible for developing conceptual designs and cost estimates for various	Project engineer for the preparation of a permit application for the closure of a solid waste disposal facility for LTV Steel Hennepin Works, Hennepin, Illinois. Responsible for the development of the closure and post-closure plans including site grading; final cover design; drainage and erosion control; cost estimates; construction quality assurance plan; technical specifications and design drawings. Responsible for developing conceptual designs and cost estimates for the removal and disposal of 21,000 cubic yards of sludge for the closure of an existing sludge lagoon.	epin, Illinois. Responsible for the development of the rance plan; technical specifications and design drawin f sludge for the closure of an existing sludge lagoon.
EDUCATION (Degree, Year, Specialization) B.S., 1988, Civil and Environmental Engineering		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	: REGISTRATION (Type, Year, State Professional Engineer, 2007, WV, Engineer, 1998, OH;) Professional Engineer, 1992, PA; Professional
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia	ign, Barbour County, West Virginia 16 of 34

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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials	AND ASSOCIATES RESPONS	IBLE FOR AML PRO	PROJECT DESIGN. (Fumish	Fumish complete	•
NAME & TITLE (Last, First, Middle Int.)		YEARS OF	YEARS OF EXPERIENCE		
David K. Savlor, P.E.	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	ELATED DESIGN	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	ATERLINE
Geotechnical Project Manager	14		25	Ω.	
Brief Explanation of Responsibilities					
Southern Expressway Construction, Pittsburgh International Airport: Onsite professional engineer for excavation and disposal of municipal wastes within the right-of-way of a major highway construction project. Excavated wastes were disposed in a permitted onsite landfill while contaminated industrial wastes were disposed offsite in a non-RCRA disposal facility. Drums encountered during excavation were overpacked and delivered to an offsite RCRA incinerator and disposal facility. Approximately 465,000 cubic yards of solid waste and 280,000 cubic yards of unclassified soils were excavated.	onal Airport: Onsite professional engineer for excarin a permitted onsite landfill while contaminated in offsite RCRA incinerator and disposal facility. Appr	vation and disposal c dustrial wastes were roximately 465,000 c	of municipal wastes within the disposed offsite in a non-RC ubic yards of solid waste and	⊧ right-of-way of a major high RA disposal facility. Drums ∉ I 280,000 cubic yards of uncl	way encountered assified soils
EPA Superfund Site, Summit Ohio: Investigator for field investigation, drillin site. Fieldwork was performed to support RIFS work.	eld investigation, drilling, sampling, and well install:	ation for an abandon	g, sampling, and well installation for an abandoned hazardous waste incinerator site listed as a priority EPA Superfund	tor site listed as a priority EP	A Superfund
Abandoned Mine Land Reclamation Program, West Virginia: Engineer for abandoned mined land projects in West Virginia. The majority of these projects involved the reclamation of abandoned, unstable coal refuse embankments. Prepared investigation programs to evaluate engineering and vegetation properties of materials, analyzed data to develop stable final configurations, and prepared contract documents, including drawings, specifications and cost estimates. Supervised the monitoring of construction for these projects.	/irginia: Engineer for abandoned mined land proj on programs to evaluate engineering and vegetati nd cost estimates. Supervised the monitoring of cr	jects in West Virginia ion properties of mate construction for these	 The majority of these projection erials, analyzed data to developrojects. 	cts involved the reclamation of stable final configurations	of abandoned, s, and prepared
Office of Surface Mining Contractor: Performed investigations and designed mitigation methods for numerous structures damaged by deep mine subsidence in the Tri-State area as a contractor of Office of Surface Mining.	tigations and designed mitigation methods for nur	merous structures da	amaged by deep mine subsid	ence in the Tri-State area as	a contractor of
General Geotechnical Projects: Performed and directed numerous geotechnical foundation investigations to develop recommendations for the design of foundation systems for both individual commercial office buildings and major mall developments. Scoped and implemented investigation programs, logged materials encountered, prepared geologic sections, and developed laboratory testing programs. Analyzed results of investigation to develop opinions and on most appropriate foundation systems and parameters for system design.	cd numerous geotechnical foundation investigations to develop recommendations for the design s. Scoped and implemented investigation programs, logged materials encountered, prepared ge velop opinions and on most appropriate foundation systems and parameters for system design.	is to develop recomn ns, logged materials n systems and paran	nendations for the design of f encountered, prepared geolo neters for system design.	oundation systems for both in gic sections, and developed	ndividual Iaboratory
General Coal Refuse Design Projects: Designed coal refuse slurry impoundments and refuse piles in West Virginia, Virginia, and Kentucky. Monitored investigation programs, including the drilling of borings and performance of in-place bedrock permeability packer testing. Services provided include stormwater runoff calculations, flood routing, embankment stability, permit application preparation, design drawings, and report development.	refuse slurry impoundments and refuse piles in W y packer testing. Services provided include storm	/est Virginia, Virginia water runoff calculati	, and Kentucky. Monitored in ions, flood routing, embankm	vestigation programs, includi ent stability, permit applicatic	ing the drilling on preparation,
Grove City Factory Shops, Grove City Pennsylvania: Engineer of record for the design of a water supply, storage, treatment, and distribution system for a major retail center in Pennsylvania. The water distribution system was approximately 2.5 miles long and supplied water to residences and businesses along the route. The source of water was a new community groundwater well.	Engineer of record for the design of a water supping and supplied water to residences and business	oly, storage, treatmer ses along the route.	it, and distribution system for The source of water was a n	a major retail center in Penr ew community groundwater v	ısylvania. The vell.
Grove City Factory Shops, Grove City Pennsylvania: Engineer of record for the design of an approximate 5 mile long sanitary sewer system to provide sewer for a major retail center in western Pennsylvania. The system was designed as a gravity flow system and required two pump stations to overcome hilly terrain. The system was designed as a gravity system to permit residences along the route to tap in and eliminate their on lot systems.	Engineer of record for the design of an approxim, we system and required two pump stations to over	ate 5 mile long sanita come hilly terrain. T	ary sewer system to provide s he system was designed as a	sewer for a major retail cente a gravity system to permit res	r in western sidences along
AEG Building, Southpointe Business Park, Canonsburg, Pennsylvania: Developed investigation plan and designed ar Southwestern Pennsylvania. The toe of the embankment was immediately adjacent to a public roadway and public utilities.	urg, Pennsylvania: Developed investigation plan It was immediately adjacent to a public roadway a	n and designed and in and public utilities.	Developed investigation plan and designed and implemented repair for a landslide at a major industrial facility in jacent to a public roadway and public utilities.	slide at a major industrial fac	ility in
Allegheny Power Company, Hatfield Power Station, Greene County, Pennsylvania: Project manager for the redesign, repermitting, and construction of an approximate 30-acre dry coal combustion byproduct disposal area designed in accordance with revised Pennsylvania Residual Waste Regulations. Mr. Saylor served as Engineer-of-Record for both the design and construction of the facility.	<mark>Sreene County, Pennsylvania:</mark> Project manager ance with revised Pennsylvania Residual Waste R	· for the redesign, rep tegulations. Mr. Sayle	bermitting, and construction o or served as Engineer-of-Rec	f an approximate 30-acre dry cord for both the design and c	r coal construction of
EDUCATION (Degree, Year, Specialization) B.S., 1981. Civil Engineering: A.S., 1975, Business Administration	inistration				
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Society of Civil Engineers		REGISTRATION (Professional Engin	(Type, Year, State) neer, PA, 1938, Professional Engineer.	Engineer, OH, 1995	
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire		DEP15596 – Lilberr	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia	our County, West Virginia	17 of 34

15. PERSONAL RISTORY STATEMENT OF PRINCIPALS AND ASS data but keep to essentials)					
NAME & TITLE (Last, First, Middle Int.)		YEARS O	YEARS OF EXPERIENCE		
LaMont, Michael, J. CAD Designer	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 14	ELATED DESIGN 14	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 19	ATERLINE
Brief Explanation of Responsibilities	_				
Mr. LaMont is a designer with a background in pipelines, telecommunications, reclamation of abandoned mine lands including acid mine drainage abatement, earthwork, grading plans, stream channe restoration, sealing of mine portals and reclamation of coal refuse piles. While at Baker he has worked on many abandoned mine land reclamation and mine shaft site design and permitting projects. His site / civil qualifications also consist of parking lot layout and design, roadway geometry, right-of-way acquisition, drainage, storm sewer and sanitary sewer design. Additional telecommunications experience include fiber optic cable construction and installation drawings along highways, railroads and cross country routes, as well as stream and road crossing drawings and cross sections, and state, local and environmental permit drawings.	telecommunications, reclamation of abandoned I pal refuse piles. While at Baker he has worked or out and design, roadway geometry, right-of-way a iallation drawings along highways, railroads and c	mine lands including a many abandoned m acquisition, drainage, cross country routes, a	cid mine drainage abatem ne land reclamation and <i>m</i> storm sewer and sanitary is well as stream and road	eclamation of abandoned mine lands including acid mine drainage abatement, earthwork, grading plans, stream channel at Baker he has worked on many abandoned mine land reclamation and mine shaft site design and permitting projects. ay geometry, right-of-way acquisition, drainage, storm sewer and sanitary sewer design. Additional telecommunications j highways, railroads and cross country routes, as well as stream and road crossing drawings and cross sections, and	stream channel nitting projects. mmunications sections, and
He has 2 years international experience providing services for Baker.	es for Baker.				
Maple Run Portals and Tipple, West Virginia. West Virginia Division of Environmental Protection. Prepared construction project, which included, site grading, mine seals, collection and diversion ditches, placement of soil cover, and revegetation.	West Virginia Division of Environmental Protection. Prep collection and diversion ditches, placement of soil cover,	pared construction pla	in, profile, detail, and cross	Prepared construction plan, profile, detail, and cross section sheets and earthwork balancing for the over, and revegetation.	t balancing for th
Emoryville Mine Complex, West Virginia. West Virginia Division of Environmental Protection. Prepared construction plan, profile, detail, and cross section sheets and earthwork balancing for the project which included erosion and sedimentation control measures, site regrading, mine seals, collection and diversion ditches, removal of abandoned barges and coal refuse from the North Branch of the Monongahela River, placement of soil cover, and revegetation.	ia Division of Environmental Protection. Prepare I measures, site regrading, mine seals, collection egetation.	d construction plan, p and diversion ditches	rofile, detail, and cross sec , removal of abandoned ba	tion sheets and earthwork bal rges and coal refuse from the	ancing for the North Branch of
Watson Portal and Refuse Reclamation, West Virginia. West Virginia Division of Environmental Protection. Prepared construction plan, profile, detail, and cross section sheets and earthwork balancing for the project which included erosion and sedimentation control measures, site regrading, mine seals, collection and diversion ditches, removal of abandoned barges and coal refuse from the North Branch of the Monongahela River, placement of soil cover, and revegetation.	 West Virginia Division of Environmental Prote imentation control measures, site regrading, mine sil cover, and revegetation. 	<i>ction.</i> Prepared cons e seals, collection and	rruction plan, profile, detail diversion ditches, remova	and cross section sheets and of abandoned barges and co	l earthwork al refuse from th
Dennison/Route 800, Ohio. Ohio Department of Natural Resources, Division of Mines and Reclamation. Prepared construction plan, profile, detail, and cross section sheets an for the project which included erosion and sedimentation control measures, site regrading, mine seals, collection and diversion ditches, placement of soil cover, and revegetation.		Prepared construction	on plan, profile, detail, and ditches, placement of soil	of Mines and Reclamation. Prepared construction plan, profile, detail, and cross section sheets and earthwork balancing s regrading, mine seals, collection and diversion ditches, placement of soil cover, and revegetation.	hwork balancing
Hardy Coal Company Bond Forfeiture, Ohio. Ohio Department of Natural Resources, Division of Mines and Reclamation. Prepared construction plan, profile, detail, and cross section sheets and earthwork balancing for the project which included erosion and sedimentation control measures, site regrading, collection ditches, and revegetation.	spartment of Natural Resources, Division of Mines m and sedimentation control measures, site regra	s and Reclamation. P ading, collection ditche	repared construction plan, es, and revegetation.	profile, detail, and cross section	on sheets and
 10 years experience using CADD as design/production tool in AutoCAD 2000i AutoCAD map Land Development Design Package CAD Overlay 	production tool in daily assignments and able to utilize advanced capabilities of the software:	nd able to utilize	advanced capabilitie	s of the software:	
EDUCATION (Degree, Year, Specialization) Certificate. 1986, Computer Aided Drafting and Design	C				
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS		REGISTRATION (Type,	'ype, Year, State)		
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire		DEP15596 – Lilberr	. Pritt Highwall Design, Ba	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia	18 of 34

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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	AND ASSOCIATES RESPONSIBLE	FOR AML PROJECT DESIGN. (Furni	(Furmish complete	
NAME & TITLE (Last, First, Middle Int.) Schroeder, Kevin S. Environmental Scientist	YEARS OF AML DESIGN EXPERIENCE: YEA	YEARS OF EXPERIENCE YEARS OF AML RELATED DESIGN EXPERIENCE: 8	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:	ATERLINE
Brief Explanation of Responsibilities				
As a Senior Environmental Scientist, Mr. Schroeder's responsibilities include leading and documenting field studies for various environmental reports as required under the National Environmental Policy Act, Section 404 of the Clean Water Act and FHWA requirements, in addition to local and state regulatory requirements. As an experienced wetland ecologist, Mr. Schroeder applies his aquatic biology background in wetland and stream studies. Mr. Schroeder is proficient in wetland identification, delineation, functional assessment, monitoring, permitting and remote sensing. He is emerging in the creation and restoration area for both wetlands and streams. Mr. Schroeder has already applied Level I Rosgen Training - Applied Fluvial Geomorphology in Western Pennsylvania.	ponsibilities include leading and documenting field stud A requirements, in addition to local and state regulatory chroeder is proficient in wetland identification, delineati d streams. Mr. Schroeder has already applied Level I	es for various environmental reports as requirements. As an experienced weth on, functional assessment, monitoring, tosgen Training - Applied Fluvial Geom	s required under the National Envi and ecologist, Mr. Schroeder app permitting and remote sensing. F torphology in Western Pennsylvar	ironmental blies his aquatic He is emerging nia.
Proposed Mining Air Shaft and Access Road, Greene County, Pennsylvania. <i>Cyprus Cumberland Resources Corporation</i> . Task Leader. Performed wetland delineations and water quality analysis of the project area streams utilizing the EPA's Rapid Bio-assessment Protocols. Submitted necessary permits including state and federal wetland encroachment permits. Author of strand wetland sections of the Bureau of Deep Mine Safety's Module 14.	County, Pennsylvania. Cyprus Cumberland Resource apid Bio-assessment Protocols. Submitted necessary r s Module 14.	<i>Cumberland Resources Corporation.</i> Task Leader. Performed wetland delineations and Submitted necessary permits including state and federal wetland encroachment permits.	ed wetland delineations and water and encroachment permits. Autho	water quality Author of stream
Coal Conveyor Belt Right-of-Way, Beckley, West Virginia Area. Norfolk Southern. mile coal conveyor belt right-of-way near Beckley, West Virginia, proposed by Norfolk tencroachments.	outhern. Norfolk S	<i>buthern</i> . Environmental Specialist. While with another firm, performed wetland delineations and stream surveys for a five- Norfolk Southern. Advised client on tower placement to minimize wetland impacts and high quality stream	tland delineations and stream sui d impacts and high quality stream	irveys for a five-
Wetland Mitigation Sites, Raccoon Creek Marsh and Taxiway E, Allegheny County, Pennsylvania. Allegheny Department of Aviation. Environmental Scientist. Monitored wetland mitigation sites as required by the PADER to evaluate the success of the replacement wetlands. Included with the Wetland Monitoring Report and WET functions and values analysis, and aquatic and wildlife species observation list. Suggested corrective action items for existing and potential problems regarding the success of the mitigation wetlands.	Taxiway E, Allegheny County, Pennsylvania. Alleghe replacement wetlands. Included with the Wetland Mor isting and potential problems regarding the success of	<i>ny Department of Aviation.</i> Environme itoring Report and WET functions and the mitigation wetlands.	intal Scientist. Monitored wetland values analysis, and aquatic and v	d mitigation sites wildlife species
Natural Gas Pipeline Projects, Various Sites: Ohio, Pennsylvania, New York, Virginia and West Virginia. Columbia Gas Transmission Corporation. Environmental Specialist. While with ano firm, performed wetland determinations for several natural gas pipeline projects. Filed FERC reports and applied for and was granted multiple Nationwide Permits - 12, 14, and 26, as well as state wetland and stream encroachment permits, hydrostatic test water discharge permits and land disturbance permits.	ennsylvania, New York, Virginia and West Virginia. Il gas pipeline projects. Filed FERC reports and applied est water discharge permits and land disturbance permi	Columbia Gas Transmission Corporatic for and was granted multiple Nationwiss.	<i>m.</i> Environmental Specialist. Whi de Permits - 12, 14, and 26, as we	While with another as well as state
Surface and Groundwater Sampling, Shippingport, Pennsylvania. Pennsylvania Power Company. Environmental Specialist. While with another firm, assi groundwater samples at the Bruce Mansfield Power Station. Field sampling included basic water quality measurements and laboratory preparation of samples.	ennsylvania. Pennsylvania Power Company. Environ on. Field sampling included basic water quality measur	Environmental Specialist. While with another firm, assisted in collecting various surface and / measurements and laboratory preparation of samples.	rm, assisted in collecting various amples.	surface and
Surface Water Sampling, West Elizabeth Pennsylvania. Hercules chemical plant as required by the NPDES Permit.	 a. Hercules Incorporated. Environmental Specialist. While with another firm, collected surface water samples at various locations within the it. Sampling included basic water quality measurements and laboratory preparation of samples. 	While with another firm, collected surfs s and laboratory preparation of sample	tee water samples at various local s.	tions within the
EDUCATION (Degree, Year, Specialization) B.S., 1986, Environmental Conservation				
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Society of Wetland Scientists	REG	REGISTRATION (Type, Year, State)		
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire	DEP1	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia	3arbour County, West Virginia	19 of 34

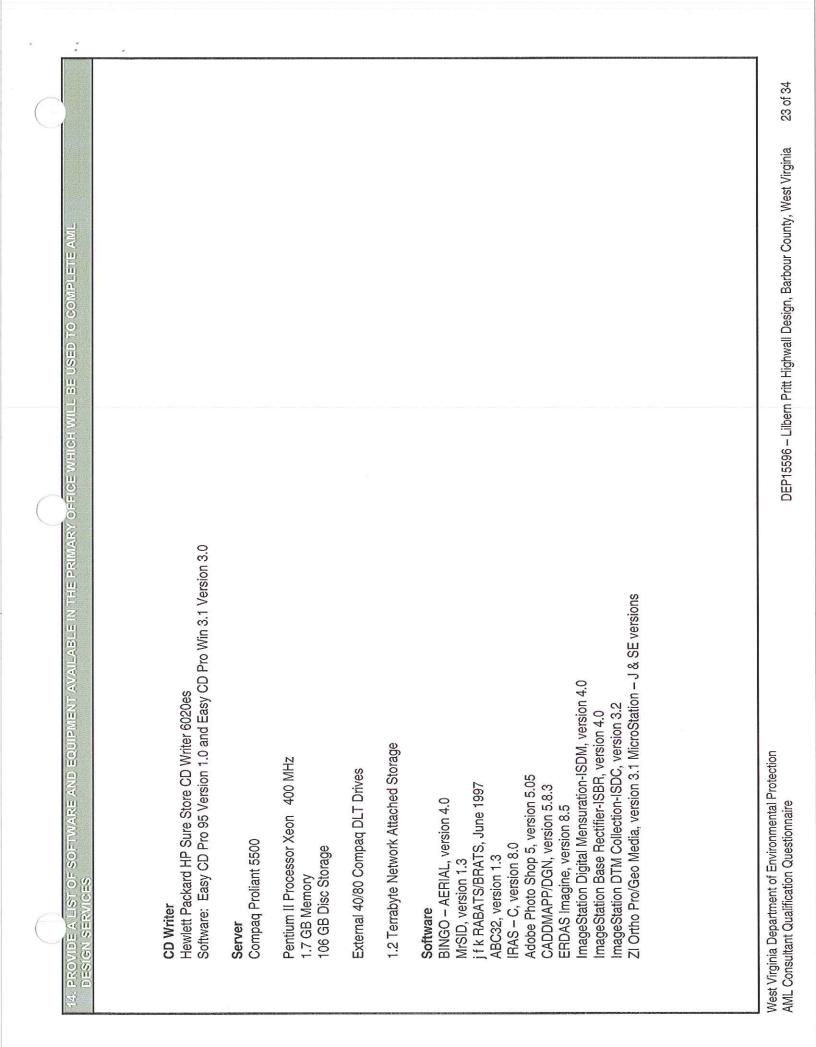
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	E WHICH	by Michael Baker Jr., Inc. for ongoing projects are as follows:	zing.				llations,		P15596 – Li
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	OF SOFT ES	oftware and	- Storm Ro ect Formul an Hydrolo POND2 - od Hydrogr	CS – OPEN river Analy ter Surface ert Analysis TER – Cha	iYDRAULI D – Water I Water Dist - Water D	VICAL - Slope Sta slope Stabil ads on Coi	AND SITE LANDDEV deling, Coo		nt of Enviror ation Quest
\bigcirc	14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABL DESIGN SERVICES	Various computer software and equipment (surveying and mapping) used	HVDROLOGY SEDCAD4 – Storm Routing through Detention Structures, Channel Design and Riprap Sizing. TR20 – Project Formulation – Hydrology by SCS TR55 – Urban Hydrology for Small Watersheds by SCS HAESTADS POND2 – Storm Routing through Detention Structures HEC1 – Flood Hydrograph Package by U.S.A.C.O.E. HAESTADS QTRSS – Urban Hydrology for Watersheds	HYDRAULICS – OPEN CHANNEL AND CULVERT HEC RAS/ - river Analysis System/Flood Plain Analysis/Water Surface Profile HEC2 – Water Surface Profiles by U.S.A.C.O.E. HY8 – Culvert Analysis by FHWA FLOWMASTER – Channel and Pipeline Hydraulics by HAESTAD, Inc.	PIPELINE HYDRAULICS WATERCAD – Water Distribution System Modeling KYPIPE2 – Water Distribution System Modeling CYBERNET – Water Distribution System Modeling	GEOTECHNICAL STABL5M – Slope Stability REAME – Slope Stability SAMM – Loads on Concrete Pipe	DRAFTING AND SITE DESIGN AutoCAD – LANDDEVELOPMENT 2000 Desktop for Earthwork, Survey, Quantity, Calculations, Terrain Modeling, Coordinate Geometry, Site Grading, etc		West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire
	14. PROV DESIG	Various	<u>-</u> 0++	<u>+</u> + + + + +	ц>хО	<u>с</u> 0) ш 0)			West Virgini AML Consul

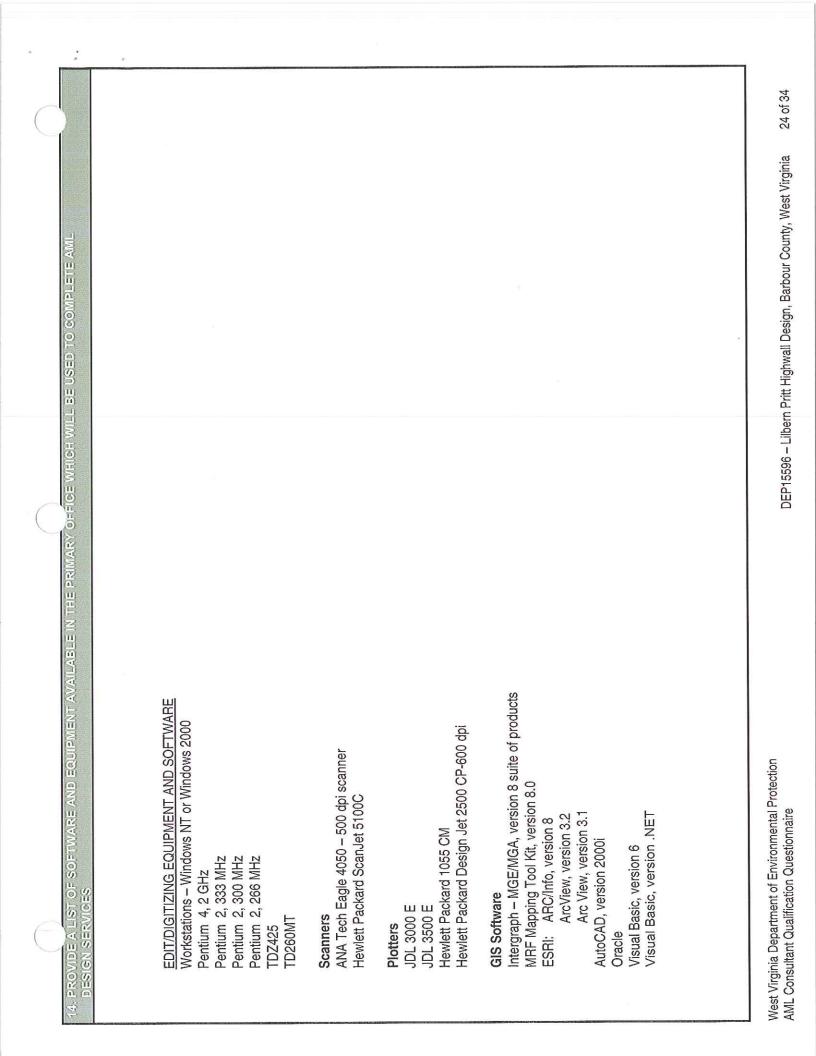
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(Hz 8° Transducer					
(Hz 8° Transducer	<u>Magnetic Locators</u> Chicago Steel Tape - FT - 60 Schoenstedt				
	<u>Fathometer</u> 1 - Innerspace Tech Model 456 - 200 K	KHz 8° Transducer			
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	West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire		DEP15596 - Lilbern F	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia	21 of 34

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C	PROVIDE À LIST OF SOFTWARE AND EQUIPMENT AVAILABL DESIGN SERVICES	Leica Ski-Pro, Version 2.0	Leica GIS Data Pro Version 1.20	Innerspace Technology Version 6.0 Data Logging with Guidance	Leica Survey Office version 1.35 Trimble GPS invev Version 2.35	Trimble Pathfinder Office Version 2.11	Leica - Liscad 6.00	Wild Soft Version 1.65	MicroStation Version SE or J	Eagle Point Version 99Q3	PHOTOGRAMMETRIC EQUIPMENT AND SOFTWARE	First Order Stereoplotters	Wild Aviolyt BC2 Analytical Stereoplotter	Leica SD 2000 Analytical Stereoplotter (Jackson, Mississippi Wild DLC / Doint Transfer Devised		Softcopy Stereoplotters	Z/I Imagestation 2013, Acon GXI 2000, 2-450 MHz	Sun ULTRA 60 360 MHz Ultra Sparc with SOCET Set Suite of Software	Z/I ImageStation SSK, PIII Xeon, 2-1.0 GHz	Z/I ImageStation SSK, Intel® Xeon ^{um} Processor, 1.80GHZ, 5	Digital Orthophoto	Dell PIII Xeon, 2-1.0 GHZ הלהימימה דרולאסג	intergraphi Tuz4zo Interaranh 6887 ImareStation /Steren Softcomy Canability/	IIIcigiapii	Scanner Z/I PhotoScan-TD (TDZ 310) Besolution setting of: 7. 14. 21.		DVD Writer Disease - Madal #DVD-D-Disease Disease Consumities Vanian 0.0 and Diseasi DVD-DED Vanian 2.0 Software	- Jaalloi	a Departm
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West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire

DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia 22 of 34





15. CURRENT ACTIVITIES ON W	15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATE	ATED ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Simpson Highwall Project, Barbour County, West Virginia	West Virginia Department of Environmental Protection (WVDEP) Office of Abandoned Mine Lands & Reclamation 601 57th Street, SE Charleston, WV 25304	\$119,000 (Fee)	\$750,000	%66
Emerald Refuse Area No. 3 Waynesburg, Pennsylvania	Emerald Coal Resources, LP 158 Portal Road, PO Box 1020 Waynesburg, Pa 15370	Prepare permit submission and construction plans for a coal refuse disposal site and slurry impoundment including E&S control, diversion and collection ditches, spillways, staging, and stability analyses.	\$778,279 (Fee)	98%
Development of a Long-Term Control Plan for Combined Sewer Overflow Abatement Pittsburgh, PA	City of Pittsburgh Department of Engineering and Construction Pittsburgh Water and Sewer Authority Pittsburgh, PA 15219	Historical Data Review, GIS Based Sewer System Mapping, GPS Mapping, CCTV Inspection, Flow Metering Installation, Water Quality Monitoring, Agency Coordination, and Public Involvement	\$7,500,000 (Fee)	%86
National Pipeline Mapping System GIS Database Repository Services and Digital Data and Map Distribution Nationwide	U.S. Department of Transportation's Research and Special Programs Administration and Office of Pipeline Safety, Washington, D.C.	Baker is maintaining the national geospatial data repository for the National Pipeline Mapping System (NPMS)	\$4,116,808 (Fee)	75%
General Environmental Consulting Services and Technical Support Contract Various Sites in Pennsylvania	Pennsylvania Department of Environmental Resources Harrisburg, Pennsylvania	Services include risk assessments, site investigations, remedial feasibility studies, remedial action design, construction inspection, Health & Safety, storage tank management, and industrial hygiene services	\$12,000,000 (Fee)	%06

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West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire

DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia 25 of 34

G		PERCENT COMPLETE	%26		~	
		ESTIMATED CONSTRUCTION COST	30,607,141 (Fee)	5		RUCTION COSTS: \$55,051,628
С	IATED ENGINEER OF RECORD	NATURE OF YOUR FIRM'S RESPONSIBILITY	Baker, in joint venture with another firm, has been providing design, construction management and resident engineering services on a continuous basis since 1979 to upgrade the Coney Island Water Pollution Control Plant. The plant services an area of more than 22 square miles with a population of 690,500 and treats primarily domestic wastewater with some industrial and commercial wastes.			TOTAL ESTIMATED CONSTRUCTION COSTS: \$55,051,628
	15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATE	NAME AND ADDRESS OF OWNER	City of New York Dept. of Environmental Protection Elmhurst, New York			(6)
C	15. CURRENT ACTIVITIES ON W	PROJECT NAME, TYPE AND LOCATION	Design & Construction Management Services for the Coney Island Water Pollution Control Plant Upgrade			TOTAL NUMBER OF PROJECTS:

West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire

26 of 34 DEP15596 - Lilbern Pritt Highwall Design, Barbour County, West Virginia

	ESTIMATED CONSTRUCTION COST	YOUR FIRM'S RESPONSIBILITY	\$79,071 (Fee)
	ESTIMATED CONS	ENTIRE PROJECT	
ANT TO OTHERS	ESTIMATED COMPLETION		6/2012
RVING AS A SUB-CONSULT	NAME AND ADDRESS OF	OWNER	David Miller Associates 130 Park St SE Vienna, VA 22180
16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS	NATURE OF FIRMS	KESPONSIBILIT	Feasibility level engineering design, cost estimating, and reporting for reclamation of numerous abandoned mine sites in the Powell River Basin
16. CURRENT ACTIVITIES C	PROJECT NAME, TYPE	AND LOCATION	General Investigation Feasibility Study, Powell River Basin Lee County, Virginia

West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire

17. COMPLETED WORK WITHIN LAST 5	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)
Davidson Highwall Project, Preston County, West Virginia	West Virginia Department of Environmental Protection (WVDEP) Office of Abandoned Mine Lands & Reclamation 601 57th Street, SE Charleston, WV 25304	\$107,000 (Fee)	2010	Under Construction
Wymer Portals Project, Preston County, West Virginia	West Virginia Department of Environmental Protection (WVDEP) Office of Abandoned Mine Lands & Reclamation 601 57th Street, SE Charleston, WV 25304	\$123,000 (Fee)	2010	Under Construction
Fort Gordon Mine Closure Sites, Fort Gordon, Augusta, Georgia	USACE, New Orleans District P.O. Box 60267 New Orleans, LA 70160-0267	\$110,000 (Fee)	2009	Phased Construction in progress
9 County Roads, Waterline Feasibility Study Preston County, WV	West Virginia Department of Environmental Protection Office of Abandoned Mine Lands & Reclamation 601 57th Street, SE Charleston, WV 25304	\$46,361 (Fee)	2009	NA (Study)
Chalk Mountain Mine Permit Renewal and Pit Mine Modification/Expansion, Spruce Pine, North Carolina	The Feldspar Corporation 530 Altapass Road Spruce Pine, North Carolina 28777	\$46,000 (Fee)	2008	Yes
Mine Dump Site Number Four Spruce Pine, North Carolina	The Feldspar Corporation 530 Altapass Road Spruce Pine, North Carolina 28777	\$75,000 (Fee)	2008	Yes
Miller Mountain Waterline Feasibility Study Preston County, WV	West Virginia Department of Environmental Protection Office of Abandoned Mine Lands & Reclamation 601 57 th Street, SE Charleston, WV 25304	\$46,361 (Fee)	2008	NA (Study)
Borgman Refuse & Portals – AML Reclamation Preston County, WV	West Virginia Department of Environmental Protection Office of Abandoned Mine Lands & Reclamation 601 57 th Street, SE Charleston, WV 25304	\$107,500 (Fee)	2007	Yes

DEP15596 - Lilbern Pritt Highwall Design, Barbour County, West Virginia

West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire

inia 28 of 34

17. COMPLETED WORK WITHIN LAST 5	17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED	D ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Kempton Refuse and AMD Tucker County, WV	West Virginia Department of Environmental Protection Office of Abandoned Mine Lands & Reclamation 601 57 th Street, SE Charleston, WV 25304	\$213,384 (Fee)	2007	Yes
Lenox/Cuzzart Waterline Feasibility Study West Virginia	West Virginia Department of Environmental Protection Office of Abandoned Mine Lands & Reclamation 601 57 th Street, SE Charleston, WV 25304	\$48,699 (Fee)	2006	N/A (Study)
Lenox/Cuzzart Waterline Feasibility Study West Virginia	West Virginia Department of Environmental Protection Office of Abandoned Mine Lands & Reclamation 601 57 th Street, SE Charleston, WV 25304	\$48,699 (Fee)	2006	N/A (Study)
Buckeye Reclamation Landfill CERCLA Site, Remediation Design and Construction Management Belmont County, OH	CONSOL Energy, Inc. 1800 Washington Road Pittsburgh, PA 15241	\$1,400,000 (Fee)	2005	Yes
Leslie (Nelson) Drainage and Portal West Virginia	West Virginia Department of Environmental Protection Office of Abandoned Mine Lands & Reclamation 601 57 th Street, SE Charleston, WV 25304	\$9,996 (Fee)	2005	N/A (Study)

DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia 29 of 34

West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire

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SE C		FIRM ASSOCIATED WITH	David Miller & Associates Vienna, Virginia		·
AMS (IND)CATE BH		CONSTRUCTED (YES OR NO)	Constructed		
12 22 11 10 (O)		YEAR	2007		
UR FIRM HAS BEEN & SUB-CONSULTANT 7	OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	\$49,500 (Fee)		
HN LAST 5 VEARS ON WHICH YOU	OUR FIRM WAS RESPONSIBLE)	NAME AND ADDRESS OF OWNER	US Army Corps of Engineers, Nashville District		
18. COMPLETED WORK WITH		PROJECT NAME, TYPE AND LOCATION	Powell River Ecosystem Restoration-Ely and Puckett Creek-Site 1, 3, and 4 Additions Lee County, Virginia		

West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire

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.	Irrees supporting your firm's Program.
Michael Baker Jr., Inc. (Baker) has been providing abandoned mine lands (AML) reclamation and acid mine drainage (AMD) remediation since the federal government first enacted legislation. Our work experience in AML/AMD started with Operation Scarlift in the 1970's, and since 1983, we have been providing our engineering services in these areas to the West Virginia Department of Environmental Protection (WVDEP), Pennsylvania Department of Environmental Protection (WVDEP), Pennsylvania Department of Environmental Protection (PADEP), Ohio Department of Natural Resources (ODNR), and U.S. Office of Surface Mining (OSM), to name a few. Our recent experience on numerous AML reclamation and AMD remediation projects for the WVDEP, ODNR, PADEP and Nashville District of the U.S. Army Corps of Engineers, illustrates our track record for the Completion of assignments on time and within budget. Although the projects presented in the Project Experience Matrix of Attachment "C" of the Consultant Confidential Qualification	
Questionnaire (CCQQ) clearly show Baker's AML/AMD design, water system design, and related experience, they only hint at the extensive human and material resources which especially qualify our firm for this project. The following narrative further describes our experience and provides insight into the special capabilities of Baker. Comprehensive Services The civil and mining engineering, surveying and mapping, environmental, and geotechnical services of Michael Baker Jr., Inc.	Er Baker's aerial light detection and ranging (LiDAR) service provides an efficient and affordable high-definition solution to digital terrain model surface creation and planimetric feature collection. Baker owns and operates the latest in aerial LiDAR and positioning technology for outstanding productivity and survey efficiency. From a single aerial collection session, our aerial LiDAR system offers the ability to accurately capture and classify features that are important to you and the requirements of your project. With up to four range measurements, including first, second, third, and last return-point captured and available for classification
are available to immediately respond to the needs of WVDEP. Working from our Beaver, Pennsylvania office, which provides excellent highway and airline transportation, Baker can provide the full spectrum of services needed in water distribution system design as well as mine reclamation and mine drainage abatement operations. Some of the more important services our firm can provide to WVDEP include:	Baker LiDAR provides the ability to accurately and effectively capture point-cloud terrain data for orthophoto rectification and planimetric or topographic map compilation. Products can be delivered as bare- earth DEM files, with the option of upgrading to digital terrain models for contour generation.
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia 31 of 34

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.	-dpporting your firm's
Some of the functions applicable to design projects for which Baker routinely employs the LiDAR System and AutoCAD LAND DEVELOPMENT Desktop include: Contour Mapping of the Surface And Subsurface Facilities Layout and Site Design	 Consolidation Coal Company Consolidation Coal Company U.S. Steel Mining Co., Inc. Westmoreland Coal Company Emerald Coal Resources LP Cumberland Coal Resources LP Exxon Research and Engineering Company
 Earthwork Volume Computations and Cost Estimates Drafting of Plans Profiles and Cross Sections The LiDAR System and AutoCAD LAND DEVELOP-MENT Desktop Civil Design software are powerful cost saving tools for abandoned 	ker's full service capal ct description is provided a
mine land projects since they can evaluate numerous configurations rapidly. They are especially useful for projects requiring extensive waterline plan and profile drawings and can interface with hydraulic models such as WaterCAD for analysis and design. They are also	 State Funded Mine Reclamation and Pollution Abatement Projects – Kempton Refuse & AMD, West Virginia
useful for projects requiring extensive backfilling and grading, such as may be required for water tank and pump station sites, and for the grading of refuse banks and gob piles, elimination of highwalls, and reclamation of other abandoned surface disturbances.	Michael Baker Jr., Inc. was retained by the West Virginia Department of Environmental Protection to prepare detailed design plans, and technical specifications for the Kempton Refuse & AMD project in Tucker County.
y project personnel includes aba Since we continually serve r nd mineral producers as well nmental agencies, several pers CQQ also have experience in a survey, mapping, exploration	The primary purpose of the Kempton Refuse & AMD project is to reclaim the remains of the pre-law underground and surface mines in the project area and divert AMD through a passive treatment system before discharging to existing streams in order to rehabilitate the watershed, and in turn the North Branch of the Potomac River.
analysis through mine planning, permitting, design, construction management, and final closure and reclamation. Since mining and reclamation projects (and WVDEP assignments in particular) comprise a large segment of our business, we work to assure that the mining services provided meet the needs and expectations of our clients and any regulatory agencies involved. Some of the many coal producers we have served are listed below:	The project involved the reclamation of over 60 acres of exposed refuse and mine spoil, re-establishment of 4,400 LF of stream, and conveyance and treatment of numerous AMD discharges. Site reconnaissance was performed to identify mine seepage points and AMD sources, subsidence features, and potential soil borrow areas. A wetland delineation and stream assessment were performed to determine design parameters and mitigation requirements for regulatory compliance. A series of bore holes were drilled to
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia 32 of 34

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.	supporting your firm's gram.
determine underground conditions including characteristics of refuse, soil, and rock, and to determine the elevation of critical mine entries. Plans and specifications were prepared for the reestablishment of the unnamed tributary, grading of spoil and refuse to provide positive	 Data Processing Interactive Graphics and AutoCAD Word Processing Printing and Reproduction
revegetati	- 0 1
ons for revegetation and reforestation of a mendments, seed mixtures, tree plantin	 Bidder Experience in all aspects of surveying and mapping, subsurface investigation, and design engineering.
mulching. Stream restoration designs required to reconstruct two unnamed tributaries in the Potomac watershed employed natural design techniques including a serpentine layout with pools and riffles. The site included numerous mine seals and collection points to abate	 Extensive experience in each area. Items 17 and 18 of the CCQQ describe various projects for which we provided these services during the last five years. Projects listed under item 12 of the CCQQ describes typical of various projects for which we provided our services to WVDEP.
the AMD seepage. Mine seals consisting of clay seals, aggregate material, and PVC outlet pipes were proposed, with modified entries required to meet site specific artesian conditions. Conveyance pipes and limestone lined conveyance channels were provided to transfer AMD to a treatment system consisting of an equalization pond, successive alkalinity producing system (SAPS pond), and aerobic wetland. Project construction was completed in 2009.	Strong capabilities in each area. Item 13 of the CCQQ lists our personnel by discipline. Our large multi-disciplinary staff is experienced in all aspects of water distribution and AML reclamation; civil, environmental, mining, geotechnical and reclamation engineering applied to surface and underground coal mining; land restoration; stream and water restoration; and land use and natural resources planning. The attached "Project Experience Matrix" show various projects performed
Summary	for various clients and also show primary participants responsible for these projects.
As a large, diverse engineering firm, Baker has facilities available to properly conduct water distribution extension, abandoned mine land reclamation, and AMD remediation projects. The use of in-house facilities can speed project completion and facilitate tracking of progress. The in-house facilities include:	
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia 33 of 34

19. Use the space to provide any additional information or description of resource	resource	
qualifications to perform work for the West Virginia Abandoned Mine Lands Progra		а. Б
2. Qualification of Personnel with respect to background, general experience, and experience relative to the requirements of the project.		5
 Baker's key personnel are registered professional engineers experienced in a broad variety of water distribution and similar projects, as indicated item 13 of the CCQQ. 		
 Our Project Manager and Project Engineers are veterans of many similar projects including past WVDEP projects. 		
3. Corporate Specialized Experience and Demonstrated Abilities		
 Baker's specialized experience with AML related problems is summarized in the AML and Related Projects Matrix in Appendix C. Our work has addressed the full spectrum of AML problems including water projects for clients such as WVDEP, PADEP and others. 		
The firm has a wealth of experience on similar projects, as evidenced by projects performed for mining and mineral companies. Moreover, Baker's transportation, site development, and water resource projects in the tri-state area often address AML problems.		
20. THE FOREGOING IS A STATEMENT OF FACTS		
Signature: Crury Physe Title:	Project Manager Date: March 20, 2012	
Printed Name: Gregory P. Hynes. P.E.	-	
West Virginia Department of Environmental Protection AML Consultant Qualification Questionnaire	DEP15596 – Lilbern Pritt Highwall Design, Barbour County, West Virginia	34 of 34

STATE OF WEST VIRGINIA Purchasing Division PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

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

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

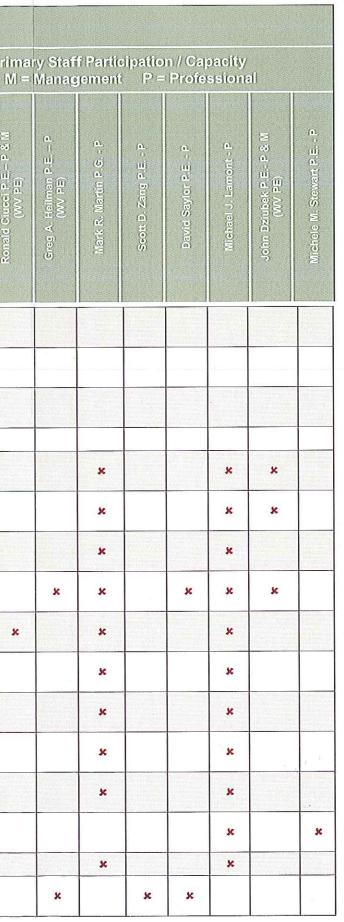
WITNESS THE FOLLOWING SIGNATURE

Vendor's Name:	Michael Baker J	Ir., Inc.							
Authorized Signature:	William D. Trimbath, PE)	Date:	March 20, 2012						
State ofPer	nnsylvania								
County of Beaver, To-wit:									
Taken, subscribed, and sw	vorn to before me this <u>1</u> 8 day of <u>Mo</u>	ircH	, 20 <u>1</u> 2						
My Commission expires _	AUSUST 1, 2012								
FIX SEAL HERE	NOTARY PUI Notarial Seal Linda L. Montagna, Notary Public Brighton Twp., Beaver County My Commission Expires Aug. 1, 2012 Member, Pennsylvania Association of Notaries	BLIC <u>Linda</u>	9 Montagna						

40	CORD [®] CE	RTI	FIC	ATE OF L	ABILI	TY IN	SURA	NCE	DATE(MM/DD/YYYY) 03/07/2012			
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Aon Pit	DUCER Risk Services Central, Inc tsburgh PA Office inion Tower, 10th Floor Liberty Avenue	•			CONTAC NAME: PHONE (A/C. No. E-MAIL ADDRES	FAX (A/C. No.): (847)	953-5390					
Pit	tsburgh PA 15222-3110 USA					INS	URER(S) AFFO	RDING COVERAGE	NAIC #			
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430	nael Baker Jr., Inc. 1 Dutch Ridge Road				INSURER	a the second second	rty Insuran	ce Corporation	42404			
Beav	ver PA 15009 USA				INSURER	100 M 100						
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A	GENERAL LIABILITY			ТВ2681004145711		06/30/2011	06/30/2012	EACH OCCURRENCE DAMAGE TO RENTED	\$2,000,00			
	X COMMERCIAL GENERAL LIABILITY							PREMISES (Ea occurrence) MED EXP (Any one person)	\$5,00			
	CLAIMS-MADE X OCCUR							PERSONAL & ADV INJURY	\$2,000,00			
								GENERAL AGGREGATE	\$4,000,00			
-	GENL AGGREGATE LIMIT APPLIES PER							PRODUCTS - COMP/OP AGG	\$4,000,00			
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				A32-001-004143-7	21	007 307 2011	007 507 2012	(Ea accident)	\$1,000,00			
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	DED RETENTION \$10,000											
В	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	VIN		WA768D004145691 AOS		06/30/2011	06/30/2012	X WC STATU- TORY LIMITS ER				
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	(Mandatory in NH) If yes, describe under			WI				E.L. DISEASE-EA EMPLOYEE E.L. DISEASE-POLICY LIMIT	\$1,000,00			
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	of Administration, Pur Attn: Guy Nisbet	100	0101	51011	_	16	x aco	CD	06			
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ACORD CERTIFICATE OF LIA	BILITY IN	ISURA		: (MM/DD/YYYY) 3/06/2012						
THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITU- RESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER. ORTANT: If the certificate holder is an ADDITIONAL INSURED, the the terms and conditions of the policy, certain policies may require an end	EXTEND OR ALT TE A CONTRACT policy(ies) must be	ER THE CO BETWEEN T e endorsed.	UPON THE CERTIFICATE HC VERAGE AFFORDED BY TH THE ISSUING INSURER(S), A If SUBROGATION IS WAIVED	DLDER. THIS E POLICIES UTHORIZED						
certificate holder in lieu of such endorsement(s).	CONTACT NAME:									
PRODUCER Written On A Direct Basis By: Vermont General Insurance Co	NAME:		FAX							
100 Bank Street, Suite 610	PHONE (A/C, No, Ext): E-MAIL		(A/C, No):							
Burlington, VT 05401	ADDRESS:			NAIC #						
	INSURER A : Vermon		RDING COVERAGE	10511						
INSURED Michael Baker Jr., Inc.	INSURER B :									
4301 Dutch Ridge Road	INSURER C :									
Beaver PA 15009 USA	INSURER D :	1								
	INSURER E :									
	INSURER F :									
COVERAGES CERTIFICATE NUMBER: 403881	REVISION NUMBER:									
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HA INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORD EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE	Ave been issued to the insured named above for the policy perion of any contract or other document with respect to which the document with respect to which the ded by the policies described herein is subject to all the terms									
INSR TYPE OF INSURANCE ADDL SUBR	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS							
GENERAL LIABILITY			EACH OCCURRENCE \$							
COMMERCIAL GENERAL LIABILITY			DAMAGE TO RENTED PREMISES (Ea occurrence) \$							
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AND EMPLOYERS' LIABILITY Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE N/A	E.L. EACH ACCIDENT \$									
(Mandatory in NH)			E.L. DISEASE - EA EMPLOYEE \$							
If yes, describe under DESCRIPTION OF OPERATIONS below			E.L. DISEASE - POLICY LIMIT \$							
A Professional Liability PR220011	06/30/2011	06/30/2012		700,000 750,000						
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks For Named Insured Only: Attn: Gregory Hynes. RE County, WV.	Schedule, if more space I E: DEP15596	s required) - Lilbern	Pritt Highwall Design	, Barbour						
]						
CERTIFICATE HOLDER	CANCELLATION									
West Virginia Department of Administration, Purchasing Division Attn: Guy Nisbet		N DATE THI	ESCRIBED POLICIES BE CANCE EREOF, NOTICE WILL BE D CY PROVISIONS.							
2019 Washington Street East	AUTHORIZED REPRESI									
PO Box 50130										
Charleston WV 25305-0130 USA	Marcy Waterfall									
	© 19	88-2010 AC	ORD CORPORATION. All rig	ahts reserved.						

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Project	*Exp. Basis C = Corp. P + Personal	** Additional Info Provided In Section(s)	Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Mine/Retuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Eval. / Mitigation / Replacement	Construction Inspection/Management	Water Treatment	Equipment / Structure Removal	Stream Restoration	Geotechnical/Stability	Lois M. Mutler P.E. – M	Greg P. Hynes P.E P & M (MV PE)	Ronald Ciucci P.E P & M
Simpson Highwall Project (WVDEP)	C & P	15	×		×	×					×	*		×		×	×		×	
Wymer Portals (WVDEP)	C & P	15	×		x	×					×	×	1	×	×	×	×		×	
Davidson Highwall Project (WVDEP)	C & P	15	x		ж	×					×	×		sc		×	x		×	
Fort Gordon, Georgia (USACE)	C&P	17	×			×					×				×				×	
Kempton Refuse & AMD (WVDEP)	C & P	17	×		×	×					×	×		×		×	×		35	
Chalk Mountain Mine (The Feldspar Corp)	C & P	17	×	0		×					×				×		×		×	
Borgman Refuse & Portals (WVDEP)	C & P	17	×	×	×	×					×	x		×					×	
Mineral-Zoar Road AMD Reclamation (ODNR)	C & P	17		×	x	×				×	x	x	l	x		×	×		×	
Flemington Portals & Drainage No. 2 AML/AMD (WVDEP)	C&P	17	×	×	x	×					*			x			×		×	3
Beech Bottom Refuse (WVDEP)	C & P	17	×		x	×					x				×	x	×		×	
Maple Run Portals & AMD (WVDEP)	C & P		*	×	×	×			1		×	×		*		×			×	
Watson Portals & Refuse Reclamation (WVDEP)	C & P		x	×	×	×					×	×		x	×	×	x		x	
Tibbs Run Portals and Tipples - AML Reclamation (WVDEP)	C & P			×	×	×					×	×							×	
Emoryville Mine Complex AML/AMD (WVDEP)	C & P		×	×	×	x					×	ж		×			×		×	
Masontown No. 4 Reclamation (WVDEP)	C & P		×	×	×	×			an that the Marine an		×	×		×	×	×	x		x	
Jed-Havaco Dump Reclamation (WVDEP	C & P		×			×		×			×				x	x	×			



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Project			Project Experience Requirements														Prim *** M			
	*Exp. Basis C = Corp. P + Personal	** Additional Info Provided In Section(s)	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 Eval. / Mitigation / Replacement	Construction Inspection/Management	Water Treatment	Equipment / Structure Removal	Stream Restoration	Geotechnical/Stability	Lois M. Muller P.E. – M	Greg P. Hynes P.E P & M (WV PE)	Ronald Ciucci P.E P & M
McArthur Subsidence (WVDEP)	C&P			×		×		Processing of	×		×						×		×	
County Route (9) Waterline Extension (WVDEP)	C & P	17				×					x	×					×		x	×
Buckeye Reclamation Landfill CERCLA Site (Consol)	C&P	15	×			×				x	×	×	×	×		*	×	*		
US Steel RCRA Closure Plan (USS)	C & P					×				x	x	x		x	×		x	×		
Mount Eaton Subsidence Stabilization (ODNR)	C&P	17				×			×		×						×		×	
Dennison S.R. 800 AML Reclamation (ODNR)	C & P			×	×	x					×	x			×		×		x	
Columbia Portland AML Reclamation (ODNR)	C & P		×	×	×	×					×	×					x		×	×
Lindentree AMD Remediation (ODNR)	C & P		x		x	×					×	x		×					x	
Powell River Ecosystem Restoration, Ely & Puckett Creek, Virginia (USACE)	C & P	18	x	×	×	×				x	×	×	A	x		×	×		×	×
No. 6 Shaft and Dewatering Pipeline (Cumberland Coal Resources LP)	C & P	15			x	×					×	x							×	
9 County Roads Water Supply Feasibility Study, Preston County, WV (WVDEP)	C & P	17				×						x							×	

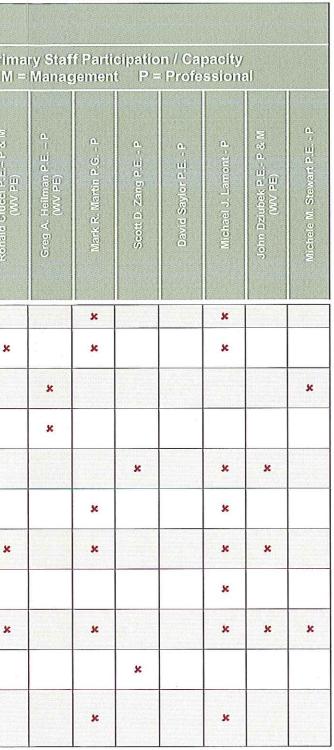
* List whether project experience is corporate or personnel based or both.

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** 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.



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